DAIKIN

General catalogue

2025







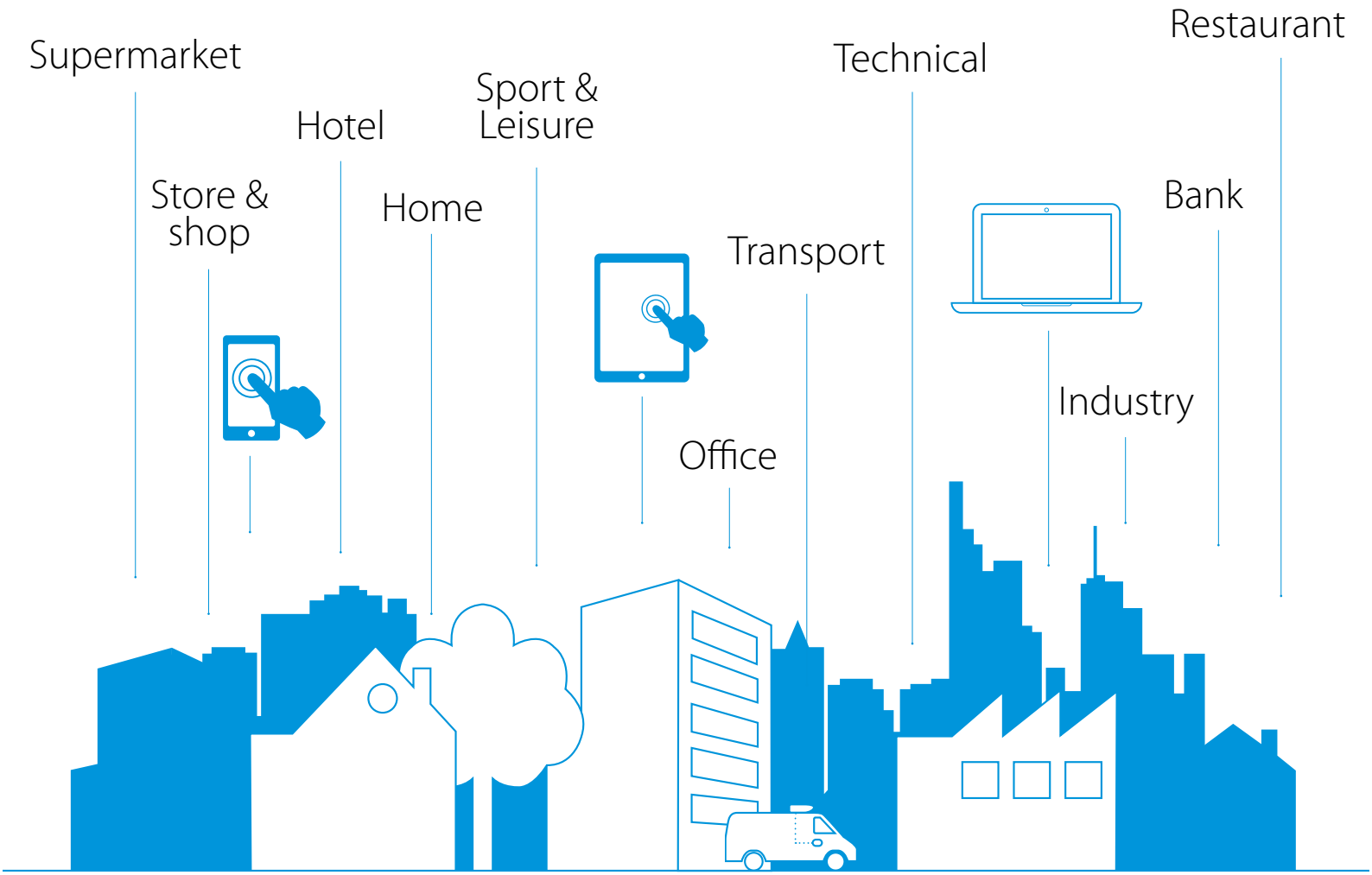




www.daikin.eu

Your solution for life

Daikin world



Daikin Europe N.V. is a leading manufacturer and supplier of heating, ventilation, air conditioning, refrigeration and control systems for the residential, commercial and industrial markets.

With almost 100 years of experience, Daikin has been an integral part of the history of sustainable climate solutions, creating the environment that allows customers to fully enjoy the intended use of their space.

Daikin is committed to continuing its work at meeting any climate demand, whether it's in a home, office, factory or any other indoor environment.

Our high-quality products are built to deliver peace of mind by providing solutions for any indoor space.

Each unit also includes smart control, allowing you to access and control your unit anytime, from anywhere and using any device.

We also offer a reliable network of technical and on-site support services through our online portal. Through online and offline tools, we help you monitor and manage your system to keep it running seamlessly.

As a leading brand, Daikin creates an innovative environment that enables customers to fully enjoy the potential of their space.

For more information, please visit daikin.eu or explore our Business Portal at my.daikin.eu

Building a sustainable legacy together

Air is essential to our existence. It has always been Daikin's mission to make the air we breathe and live in the best possible. Our innovative products and solutions are designed to improve people's health and well-being, to support the food cold chain from farm to fork, and to reduce the environmental impact of heating and cooling.

With this spirit, the worldwide Daikin group has committed to reduce lifecycle greenhouse gas emissions by 2050, aiming to achieve net zero greenhouse gas emissions.

Supporting decarbonization

We must act now to ensure we create a long-lasting legacy. At Daikin, we believe that a company cannot grow its business unless it contributes to solving environmental problems. We therefore develop and promote products and solutions that use energy-efficient technology and refrigerants with lower global warming potential.

Taking on sustainable transformation, our solutions reduce the carbon footprint of buildings, whether they are new builds or renovations:

- Maximizing sustainability over the entire life cycle, thanks to products with market-leading real-life seasonal efficiencies, in-house experts optimising the system selections together with designer partners, strong installer and service partner network on the field who are always close to our end customers to guarantee optimum system operations.
- Reusing existing refrigerant through L∞P by Daikin: we utilize resources already available in the market, fully supporting the EU circular economy with a low carbon footprint
- If needed, we introduce virgin refrigerant through lower GWP refrigerants such as R-32, reducing the direct CO_2eq impact
- Daikin remote monitoring systems offering efficient system operations and advanced leak detection technology

Building for the future

As a Brand, Daikin exemplifies the personality of a Caring Leader, guided by its main principles of comfort, reliability, and sustainability.

Daikin's primary mission is to protect and nurture. Through its products, innovations and relationships, it aims to improve internal, external and personal environments, directly impacting people's lives.

Being a caring leader, Daikin takes pride in how its efforts to improve lives have influenced others in the industry. Daikin is constantly adapting and reinventing while simultaneously using its knowledge and experience to educate and guide others. Reliability, support and precision are characteristics of our future-proof products and services.

We offer:

- A wide range of next-generation heat pumps to meet complex demands, including easy upgrading and extending the lifetime of our equipment
- Expert indoor air quality solutions through our ventilation and filtration systems to eliminate pollutants and balance humidity levels

A journey we take together

Together, we embark on the sustainability journey. We provide expert support throughout the building life cycle and offer peace of mind by ensuring what we do is future-proof and contributes to building a better future.

- Our team of experts goes beyond product support. Together, we help you reach your green objectives.
- We are there for you all the time: through our local customer support teams and e-commerce solutions.
- We're in it for the long term. We deliver what we commit to, providing clear and trustworthy data.



The Daikin Promise

Providing the right environment to live, work and relax in has always been central to what we do at Daikin. We are proud of the way we research, design and manufacture cutting-edge, innovative products that fit seamlessly into our everyday lives. Our equipment operates for the benefit of all: silently, invisibly and unobtrusively making our homes, offices, factories, shopping centres, entertainment and leisure facilities places where we can feel happy, comfortable and at ease. Daikin excels in providing the ideal solution for every home, every space, and everyone since the company was first founded in 1924.

For a century, we have never wavered in our mission to innovate: recognising and overcoming the ever-changing challenges posed by the quality of the air we breathe and the overall environment around us.

Creating sustainable indoor climate solutions that prioritize the ultimate in customer comfort is what we do best. We are experts in heating, cooling, and purifying, but our craft lies in creating a climate without distractions. This is our relentless pursuit - empowering people to focus on the moments that matter and, in turn, share the best of themselves with the world.

This is the Daikin Promise.



Table of content

General Catalogue 2025



For latest data, please consult **my.daikin.eu** or check our
Virtual Daikin Experience Center via Virtual Experience Centre | Daikin

my.daikin.eu

Virtual Experience Centre | Daikin

Introduction
Residential indoor air quality
Heating
Split
Sky Air
Rooftop
VRV
Commercial ventilation & air purification
Marine Industry
Chillers
Fan coil units
Air Handling Units
Commercial & Transport Refrigeration
Control Systems

What's new in 2025

Daikin Altherma 4 H: EPSK- series

p. 92

- Best in class space heating capacity: 13.3 kW at -7/55°C
- Easy boilers replacement: 70-75°C LWT at -15°C
- Ultra-low sound: down to 28 dBA at 3 metres!
- Highest safety standards in the industry
- Heat pump operation guaranteed in the coldest climate: down to -28°C
- Intuitive, easy and fast navigation and control with new 5" color touchscreen



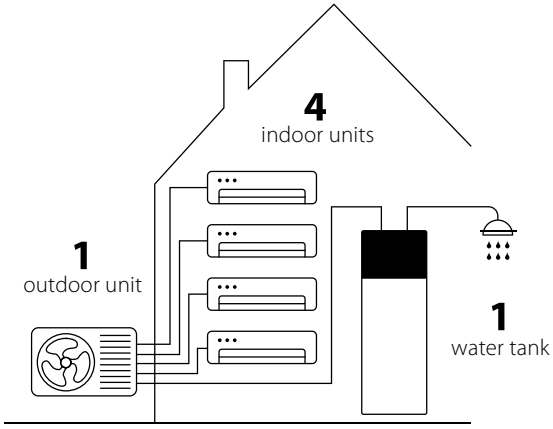


Multi+ extension

p. 374

Multi+ extension of the range

- **up to 4** indoor units and 1 tank connection
- 4 tank capacities: 90l, 120l, **180l and 230l tank**
- **5 port** multi outdoor unit, available in 68 and 90 class



Perfera wall mounted: FTXM60-71A

p. 364

- **New design** for 60-71 class with integrated WLAN adapter
- **Software update** with BEG and DCS



Sensira range

p. 366

Sensira FTXF-F

- Standard WLAN available on all classes



p. 367

Sensira FTXC-E

- **New outlook**
- Standard WLAN available on all classes



Nepura range

p. 392

Perfera FTXTM-A

- New design with comfort+ function
- Software update with DCS

p. 393

Comfora FTXTP-A

- WLAN integrated in the PCB on all classes
- Software update with DCS

p. 394

Perfera FVXTM-B

- Software update with DCS



New Sky Air Active-series combinations

p. 439
p. 445

- AZAS/ARXM outdoor units now also combine with FHA71~140A9 and FVA100~140A
- Ideal solution for busy environments and small shops
- Maximum piping length up to 30m



Decarbonisation of buildings made easy: VRV 5 Heat Pumps

RXYA-A / RXYSA8-10-12A

p. 492 / p. 494

- Enabling you to decarbonise any building in an easy way
- New maxi VRV 5 heat pump
- New 8-10-12 HP VRV 5 S-series
- Top sustainability over the entire lifecycle thanks to R-32 and high seasonal efficiency
- Maximum design flexibility, allowing installation in any room, thanks to Shîrudo Technology
- Market-leading portfolio, with an unparallelled outdoor and indoor unit range

VRV 5 BLUEVOLUTION

SHÎRUDO TECHNOLOGY R-32



CO_2 VRV, the low GWP solution

RXYN-B

p. 517

- Enabling you to tackle projects requesting natural refrigerants
- Using the natural refrigerant CO_2 (R-744)
- With a low GWP of 1, CO_2 is one of the most sustainable refrigerants

CO_2 VRV R-744







ERA- AV/AY/AYF

p. 590

Condensing unit range connectable to Air Curtains and Direct Expansion (DX) Air Handling Units (AHUs) for fresh air and recirculation applications.

Features:

- Based on energy saving inverter technology with the use of lower GWP R-32 refrigerant.
- Better management of load for medium size spaces due to VRV technology
- Wide range of expansion valve kits available for capacities of 6.3 to 30 kW



ERA-AYF



ERA-AY/AV

EWYE-CZ

High temperature & Low carbon solution

- High temperature heating boiler replacement for low CO_2 emissions
- Green Buildings contribution
- Low operating costs

But why R454C?

- It is a F-Gas solution in line with ban of 1st of Jan 2027
- Low refrigerant GWP (145.5)

Available in February 2025



EWWH-VZ

New option of the current VZ Series with R-1234ze to allow the unit to deliver Hot Water up to 90°C.

Ideal solution for industrial and commercial heating applications:

- Renewable heat solution able to produce hot water up to 90°C;
- Multiple applications: district heating, space heating, process heating;
- Multiple renewable energy sources: waste heat from data centers, from industry, grey waters, ground source water.



Available in July 2025

EWYK-QZ

New Modular Air to Water Heat Pump with R290

High temperature heat pump to enter boilers' replacement market

- R290 refrigerant.
- 2 circuits per module; 1 compressor per circuit.
- Scroll compressors with Inverter as standard.
- Air heat exchangers in Cu/Al
- Fan type: Variable speed EC fans.
- Water heat exchangers: BPHE

Available in October 2025

FWT-HT

New wall mounted unit
BLDC fan motor unit for wall mounting

p. 807

- 5 different sizes from 2.4 kW to 5.3 kW
- 230V ON-OFF internal 3-way valve factory mounted
- Double filtration stage (Gin-Ion filter + PM2.5 filter)
- Daikin Flash Streamer technology integrated



Shinka

New FCU wired remote controller
Full-Touch display 4.3" + external control PCB

p. 780

- 3 room controller models: single-zone, single-zone with additional sensors and multi-zone
- FCU complete control with programmable settings (economy/antifreeze functions, weekly custom schedules, notifications for anomalies or maintenance)
- Multi-zone control with access to real-time data for each zone
- Mobile App for easy commissioning





Compact L

p. 834

- 6 Predefined sizes
- Plug & Play control solution
- Compact unit from 280 mm height (for air flow up to 550 m^3/h)
- Wide air flow coverage from 150 to 4,000 m^3/h



Compact T

p. 835

- Plug & Play control solution
- Compact unit from 550 mm width (for unit up to 1,100 m^3/h)
- Wide air flow coverage from 200 to 4,200 m^3/h
- Excellent indoor air quality (IAQ). Up to three filtration stages: more than 90% PM1 in outdoor air are deleted achieving the best IAQ



LMC - Inverter Ceilling Monoblock

p. 854

- Ceiling Mounted Inverter Monoblock
- Highest efficiency in the market (up to 40% vs traditional ON/OFF technology)
- One unit for all needs and applications (Medium and Low Temperature)
- Smart Controls with Bluetooth Connectivity and Remote Monitoring
- 3 Year Warranty



Low Temperature CO_2 Cascade

p. 899

- Low Temp Cascade system to operated with Daikin CO_2 CVP
- Capacity models: 3kW, 4.5kW and 8.5kW
- Carel and Wurm Controls systems



PS & PC R290 Monoblocks

p. 856

- Updated ON/OFF R290 Monoblock
- Air Cooled Model for both Medium Temp and Low Temp
- Including features such as Evaporation Tray and Cold Room Entrapment Alarm



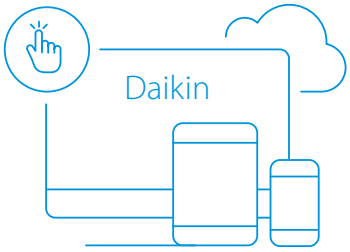
Tools and platforms



We're here to help you!

Customer Portal

My.daikin is your central entry point



- Quick links to all existing and new Daikin applications
- Easy access to documents
- Real-time information

If your profile allows:
- Check your quotes and orders
- Track and trace your deliveries
- Look into your invoices
- Self-services



my.daikin.eu

Sales supporting apps

We offer a variety of building modelling, selection, simulation and quotation software tools to support your sales.

An overview of all tools available can be found here

my.daikin.eu/denv/en_US/library/applications/software-finder.html

Webinar platform

Online seminars are a new way of sharing information with you. As this is not restricted in time or place, it is convenient for you to watch it whenever you want.

Check out our webinars now!



Online support

Daikin library

- Experience our Business Portal that thinks with you at my.daikin.eu
- Find information in seconds via a powerful search
- Customise the options so you see only info relevant for you
- Access via mobile device or desktop

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B2B Virtual experience center

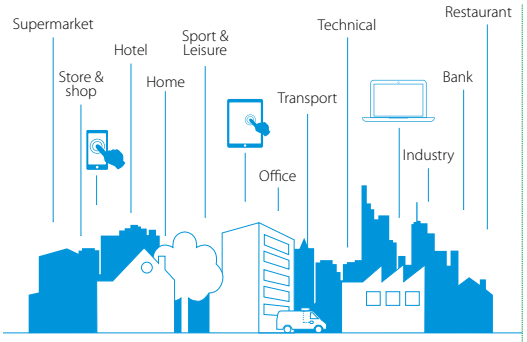
An online showroom where Daikin's product portfolio can be discovered. View the products and learn more about their functionalities in a virtual way.

Check it out:



Internet

Find our solution for different applications:



www.daikin.eu

- **As Customer:**
  Experience your perfect climate with Daikin.



- **As Installer:**
  Build your business with Daikin.



- **As Architect & Consultant:**
  Create the perfect climate with Daikin.





Why Indoor Air Quality?

Indoor Air Quality (IAQ) is a measure of the air quality, as breathed by the occupants. While the average adult breathes over 15,000 litres of air per day, IAQ is often a neglected measure.

Sources of indoor air pollution:

Outdoor sources like pollen, and general air pollution can add to the problem, but some of the culprits such as pollutants from the dust or allergens can be found around the home. Even daily activities such as dust released from the cleaning or odours from cooking can influence the quality of the air we breathe. The finer the particles, the more dangerous they are to our health. Fine Particulate Matter (PM2.5) defined as particles with diameter equal to or less than 2.5 microns are so small that they remain invisible, giving us a false sense of safety. But with the right filtration system you can reduce the impact of these pollutants from the air.

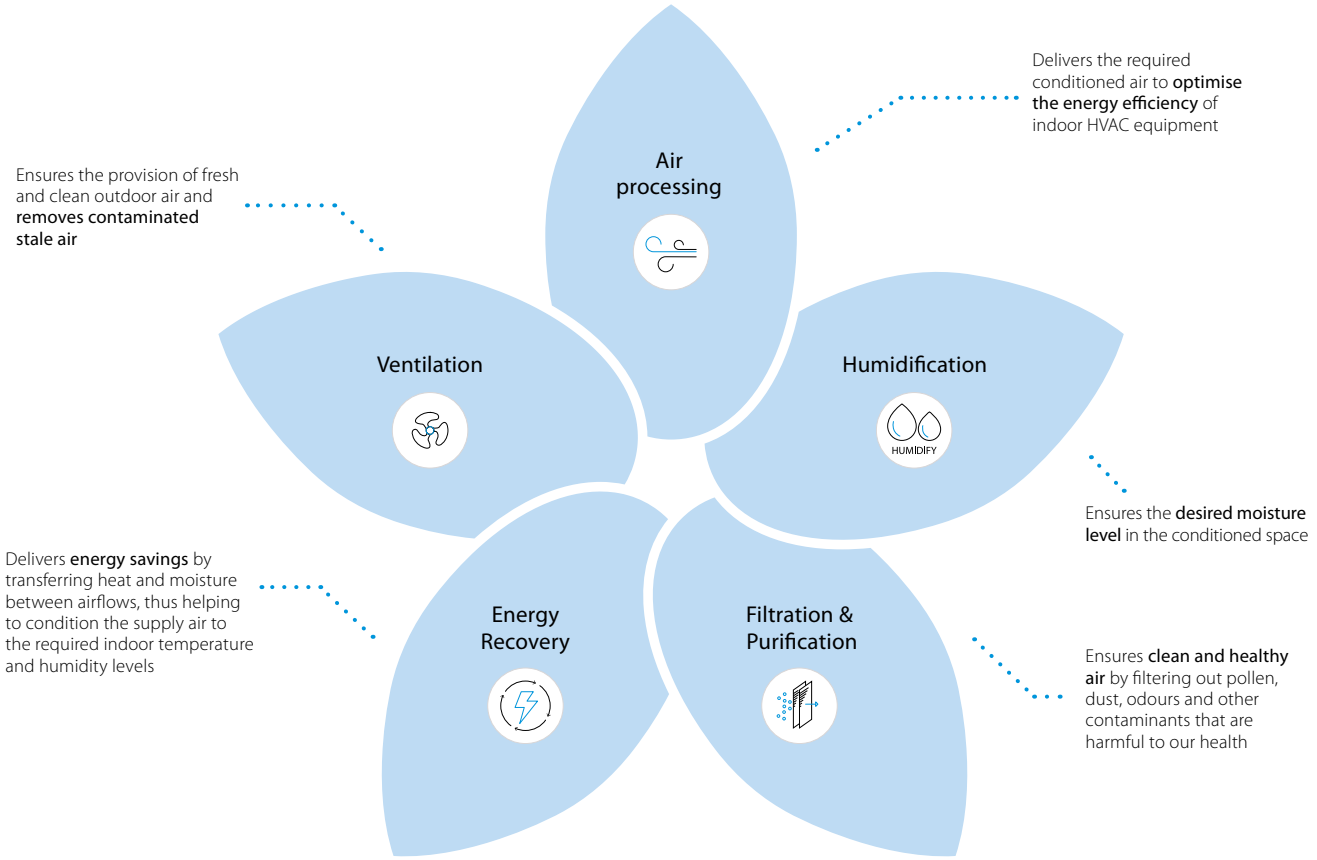
Indoor air pollution is 2-5 times worse than outside air

We spend 90% of our time indoors

The average adult breathes 15,000 litres of air each day

Over 50% have a loved one with a respiratory condition

5 components for ensuring good indoor air quality



Daikin provides a range of **residential ventilation & air purification solutions** to help you in achieving a better indoor living condition for a healthier living.

Ventilation

Filtration & air purification



Indoor air quality

for residential and light commercial applications



MC80Z/ZB



MCK70ZH/BFH



DucoBox Energy Comfort Plus

Residential & light commercial air purification 17

- Reason to choose an air purifier 17
- Air purifier portfolio 18
- Our technology 20
- Certification & testing 22
- Onecta app integration 24
- MCK70ZW/BFW & MCK70ZH/BFH 26
- MC80Z/ZB 27
- MC30YV/YB 28
- MC55W/VB 29
- MCK555A 30

Residential ventilation 32

- Reasons to ventilate your home 33
- Centralised Heat Recovery Ventilation (CHRV) 34
- Why DUCO 36
- DUCO portfolio at Daikin 38
- On-demand ventilation 39

DucoBox Energy Comfort 40

- Technical specifications 42
- Dimensional drawing 43

DucoBox Energy Comfort Plus 44

- Technical specifications 46
- Controls components, options & accessories- DucoBox Energy Comfort & Comfort Plus 47
- Dimensional drawing 49

DucoBox Energy Premium 50

- Controls components, options & accessories- DucoBox Energy Premium 52
- Technical specifications 54
- Dimensional drawing 55

DucoBox Energy Sky 56

- Technical specifications 58
- Dimensional drawings 59

Controls components, options & accessories 60

- User & room controls, switch sensors 60
- Air ducts 62
- Vents 67
- Air flows 70

Quotation process 71

Comptability table 72

6 reasons to choose an air purifier

Combat seasonal allergies & reduce airborne illnesses
Air purifiers filter out pollen, dust mites, and other allergens, providing relief from sneezing, itchy eyes, and congestion



Banish bad smells
Remove cooking, smoking and household smells with a deodorising filter. Enjoy a better smelling home, even in open-plan living areas and homes with limited ventilation.



Ideal for young families
Kids and babies can be the most vulnerable. Ensure a healthy environment with air purifiers that remove harmful pollutants, dust, and pet dander. Quiet operation make them perfect for nurseries and children's rooms.





Get rid of the household dust
Dust is a common challenge for every household. This dust can contain particles like pet dander, mould spores, and dust mites. Consider using an air purifier to reduce these airborne irritants in areas where dust tends to accumulate.



Improve the quality of your sleep
Remove airborne irritants, and an air purifier with an add-on feature of humidification gives you the best moisture level while you are sleeping, so you're less susceptible to a dry throat that causes coughing while sleeping



Minimise pet smells and dander
Reduce pet hair, dander, and odours with an air purifier. It will help to keep your home cleaner and alleviate allergic reactions if you're sensitive to pet allergens.

A Daikin air purifier offers many solutions:

HEPA filter

An electrostatic HEPA filter removes 99.97% of fine particles down to a size of 0.3µm

The deodorising filter absorbs and decomposes odour.

STREAMER

Daikin's Streamer technology decomposes, by oxidation, harmful substances caught on the filter

HUMIDIFY

A humidifying filter can add moisture to the air to achieve desired moisture levels.

Breathe better with Daikin air purifiers



Breathe healthy air with **Daikin air purifier**

We offer a wide range of air purifiers with and without humidifiers, in all sorts of different sizes and applications. Whether you need a small air purifier for a single room or a larger one to cover a larger surface area, we have the perfect solution for you.

MC80Z



- Air flow up to **480 m³/h**
- Air purification up to **124 m²**
- **Intelligent** air purification
- Absorbs odour via **deodorising filter**
- High Performing Electrostatic **HEPA filter**

MC55W



- Air flow up to **330 m³/h**
- Air purification up to **82 m²**
- Absorbs odour via **deodorising filter**
- High Performing Electrostatic **HEPA filter**

MC30YV



- Air flow up to **180 m³/h**
- Air purification up to **46 m²**
- Absorbs odour via **deodorising filter**
- High Performing Electrostatic **HEPA filter**

Air purifier **with humidifier**

These units come with humidification function to increase the moisture in the air so that owners will be able to prevent dry air or it can help the ones who easily suffer from soar throat.

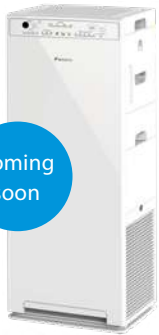
MCK70Z



- Air flow up to **420 m³/h**
- Air purification up to **96 m²**
- **650 ml/h** humidifying capacity
- **Intelligent** air purification
- Absorbs odour via **deodorising filter**
- High Performing Electrostatic **HEPA filter**

MCK555A

Coming soon



- Air flow up to **330 m³/h**
- Air purification up to **82 m²**
- **500 ml/h** humidifying capacity
- Absorbs odour via **deodorising filter**
- High Performing Electrostatic **HEPA filter**

Refer to page 23 for detailed test results related to Institut Pasteur de Lille of devices MC30YV, MC55W.

What makes Daikin air purifier unique?

Supreme Technology

Our air purifiers are designed with minimalistic style in mind, so they won't detract from the aesthetics of your home. The sleek, modern design is sure to complement any décor, while the lightweight construction makes them easy to move around.

Featuring clear indication lights that show you the current PM2.5 indication additionally with an easy-to-use control panel with all the settings you need. Our air purifiers are also designed to be quiet, with low noise levels and minimal disruption.

There when you need it
Our air purifiers are designed to keep your air clean and comfortable all year round.

Daikin Streamer Technology
Our Daikin air purifiers are all equipped with our patented Daikin Streamer technology to decompose, by oxidation, harmful substances caught on the filter and ensuring its market leading filter lifetime of ten years.

STREAMER











Peace of mind thanks to filter lifetime

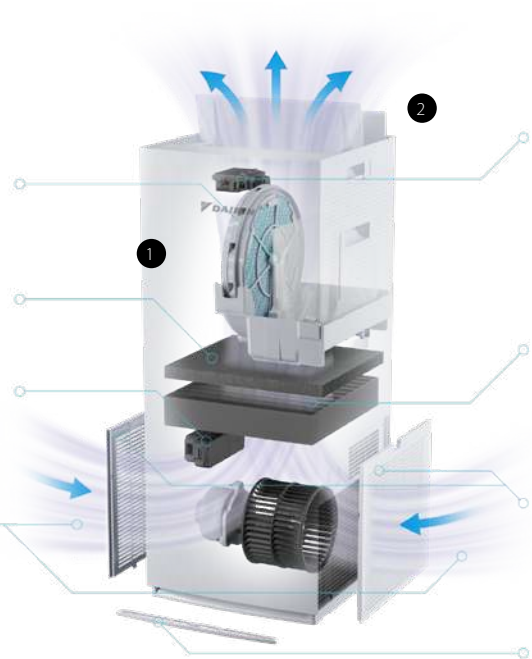
A benefit that makes our Daikin air purifiers unique.

The filters of our air purifiers lasts much longer than market standard, and ensures you of 10 years without replacing the filter.

This saves you costs and ensures you peace of mind for a 10 years* period.

* Verified by test method based on Japan Electrical Manufacturers' Association Standard JEM1467.

What makes our technology unique?



Humidifying filter
Double-layer filter for humidification.

Deodorising filter
Absorbs odour.

Streamer unit

Powerfull suction from different sides

❷ **Active plasma ion generation unit**

Dust collection: Electrostatic HEPA Filter
Catch fine particles of dust.
Removes 99.97% of fine particles of 0.3µm
No need to change for 10 years.*

Pre-filter

Inlet at the bottom of the front panel collects harmful substances from near the floor.

Technology

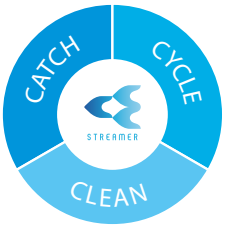
❶ Inside - Streamer decomposes hazardous elements

Streamer, a type of plasma discharge, decomposes hazardous chemical substances. The decomposition power is comparable to thermal energy of about 100,000°C.

❷ Outside - Active plasma ion discharge

Plasma ion technology releases ions into the air by plasma discharge and combines them with components in the air to generate active components such as OH radicals with strong oxidising power.
They attach to the surface of fungi and allergens and decompose proteins in the air by oxidation.

The Streamer Symbol consists of three C's



CATCH
The dust collection filter catches the floating substances with the attached harmful gases and Streamer decomposes the gases by oxidation.

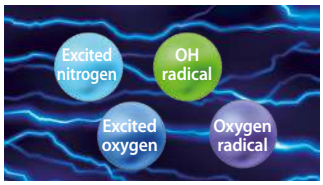
CYCLE
The deodorising filter absorbs and decomposes odour. Thanks to the regeneration of the adsorbing capacity, the deodorising capacity is maintained. No need to change the deodorising filter.

CLEAN
Removes bacteria from dust collection filter, humidifying filter and humidifying water tray.

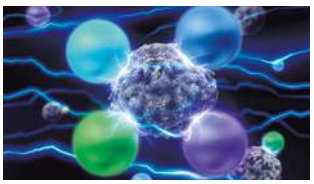
Mechanism of decomposition by Streamer



Streamer emits high-speed electrons.



The electrons collide and combine with nitrogen and oxygen in the air to form four kinds of elements.



These elements provide decomposition power.

*1 This is removal performance of filter and not removal performance for entire room.
*2 Verified by test method based on Japan Electrical Manufacturers' Association Standard JEM1467.

No hassle with periodic filter replacements

No maintenance costs for at least **10 years**

One of the **most silent** Enjoy whisper-quiet operation: only 19dBA.

Filter Lifetime

Our air purifiers feature a complete filtration system, with four stages of filtration to ensure your air is as purified as possible. With our air purifiers, you can enjoy the benefits of cleaner air, with minimal maintenance.



1. Pre filter

Our air purifiers feature an advanced pre-filter that helps to reduce the amount of pollutants that reach the main filter, which helps to extend the life of the air purifier and improve performance.

2. Electrostatic HEPA filter

High Performance Electrostatic HEPA Filter is a high-efficiency particulate air filter system that is designed to catch fine particles of dust.

3. Deodorizing filter

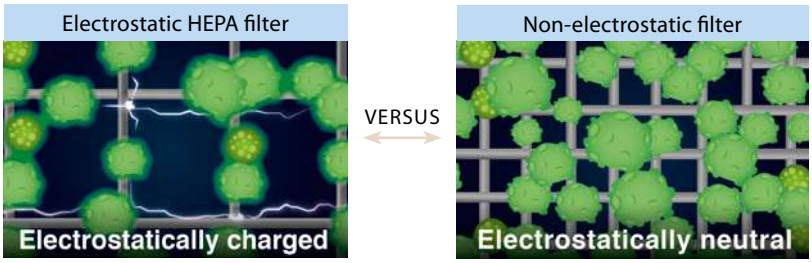
Our air purifiers feature a powerful deodorizing filter that helps to reduce odours from cooking, pets, and other sources in the air.

4. Humidifying filter

Our air purifiers feature a built-in humidifying filter that helps to add moisture to the air.
This filter helps to keep the air from becoming too dry, which can cause issues such as skin or throat irritation from dry air.
Please refer to product pages to check which units offer humidification.

What makes Electrostatic HEPA better than Non-Electrostatic HEPA filter

- Removes 99.97% of fine particles of 0.3µm.
- Filter fiber itself is charged with static electricity, and collects particles efficiently.
- Doesn't clog easily, hence causes low pressure loss.



Because it catches particles relying only on mesh size, it is necessary to make mesh finer, making it easy to be clogged and cause high pressure loss.

*Mechanism of reduction by active plasma ions. (Concentration 25,000 ions/cm^3.)
- Daikin's plasma ions have been proved safe, in relation to the effect on skin, eyes and respiratory organs.
- Testing organization: Life Science Laboratories, Ltd.
- Name of test: repeated-dose toxicity test.
- Test number: 12-II A2-0401 Mechanism of reduction by active plasma ions.

About the dust collection and deodorizing capacity of an air purifier:
- Not all harmful substances in cigarette smoke (carbon monoxide, etc.) can be removed.
- Not all odour components that emanate continuously (from building materials and pets, etc.) can be removed.

The Daikin air purifier is not a medical device and is not meant to be used as a substitute to any medical or pharmaceutical treatment.

HEPA filtration effect claims:
- Removes 99% of particles between 0.1µm and 2.5µm in size: test method: Japan Electrical Manufacturers' Association Standard JEM1467. Criterion: Remove 99% of fine particulate matters of 0.1 to 2.5µm in a closed space of 32m^3 within 90 minutes. (Converted to a value in a test space of 32m^3).

Deodorization/gas removal effect claims:
- Reduction of gases by oxidation: testing organization: Life Science Research Laboratory. Test method: After operating a gasoline engine for 10 minutes (when particulate concentration reached 60mg/m^3), operated the air purifier for 80 minutes to absorb polluting particles emitted from the engine. Operated this air purifier for 24 hours in a closed space of 200L and measured the effect to decompose gases. Test result: Compared with a test without Streamer irradiation, gas components were reduced by 63% in 9 hours. Test number: LSRL-83023-702. Test unit: Tested with MCK70N (Japanese model).
- Adsorption and decomposition of odours: placed the air purifier and an odour component, acetaldehyde, in a box of 21 m^3 and operated the air purifier. Examined increase of concentration of product (CO_2) generated by decomposition of acetaldehyde by Streamer (evaluation by Daikin). Test unit: Tested with MCK55S (Japanese model), a model equivalent to MCK55W series.
- Formaldehyde decomposition: test method: constant generation method. Test room: 22 to 24 m^3, temperature: 23 ± 3°C, humidity: 50 ± 20%. Ventilation condition: When concentration of 0.2 ppm is continually emanated, a removal capacity of 0.08 ppm is maintained at 36 m^3/h, which is within the guideline of the Ministry of Health, Labour and Welfare in Japan. (This equates to the ventilation capacity of an approximately 65 m^3 room.)

Substance decomposition effect claims:
- Removal of bacteria from dust collection filter: testing organization: Japan Food Research Laboratories. Test number: 15044988001-0201. Test method: Attached a test piece inoculated with bacteria liquid on the upstream side of a dust collection filter installed in an air purifier, and operated it in a test area of 25 m^3. Counted the number of live bacteria after five hours. Test result: Reduced by more than 99% in five hours. Test unit: Tested with MCK55S (Japanese model), a model equivalent to MCK55W series (turbo operation).
- Removal of bacteria from humidifying filter: testing organization: Japan Food Research Laboratories. Test number: 15044989001-0101. Test method: Attached a test piece inoculated with bacteria liquid on the upstream side of a humidifying filter installed in an air purifier, and operated it in a test area of 25 m^3. Counted the number of live bacteria after five hours. Object part: Humidifying filter. Test result: Reduced by more than 99% in five hours. Test unit: Tested with MCK55S (Japanese model), a model equivalent to MCK55W series (turbo operation).
- Allergen decomposition and removal: various allergens were irradiated by streamer discharge and the breakdown of protein in the allergens was verified using the ELISA method, cataphoresis, or an electron microscope (Joint research with Wakayama Medical University). Test example: 'Japanese cedar pollen Cryj-1'. Test result: 99.6% or more decomposed and removed in 2 hours (ELISA method); 96.9% decomposed and removed in 4 hours (other measurement method). Note: test performed on the flash streamer module.
- Virus removal ref. 1: testing organization: Kitasato Research Center for Environmental Science. Test result certificate 21_0026 (issued by same organization). Result of experiment: 99.9% removal of A-H1N1 virus after 1 hour. Note: test performed on the flash streamer module.
- Virus removal ref. 2: testing organization: Vietnamese Institute of Hygiene and Epidemiology. Result of experiment: over 99.9% removal of A-H5N1 virus in 3 hours. Note: test performed on the flash streamer module.
- Virus removal ref. 3: testing organization: Graduate School of Kobe University. Result of experiment: over 96% removal of Norovirus in 24 hours. Note: test performed on the flash streamer module.

Our Tested Efficiency**

Efficient against allergens as recognized by BAF (British Allergy Foundation)

The Allergy UK Seal of Approval reassures that the product is efficient at reducing small particulates which may include allergens, bacteria and viruses. Applicable for unit MC55W.

Approved allergy-friendly by the European Centre for Allergy Research Foundation

An independent advisory panel of 15 leading international scientists and technicians has developed the criteria ECARF used to evaluate different product groups. They include threshold values and exclusion criteria that make an allergic reaction very unlikely. The criteria are regularly updated to reflect the latest scientific findings.

A product receives the Seal when it can be proved through audits or studies that the criteria have been fulfilled. The Daikin air purifiers passed these tests and can be considered as allergy-friendly. ECARF testing applicable on Daikin air purifier units MC55W and MC30Y. Not applicable on air purifiers with Humidifying function.

Proven effectiveness against respiratory viruses (among others human coronavirus HCoV-229E) evaluated by Institut Pasteur de Lille*

The units have also been evaluated as effective against the H1N1 virus. H1N1 is the virus causing common flu. This means Daikin's air purifiers are an additional measure in the fight against respiratory diseases. Our compact plug-and-play purifiers, whose effectiveness is achieved through a combination of the high performance electrostatic HEPA filter, which traps the virus, followed by an intense exposure to Daikin's patented Flash Streamer technology, which removes the virus, can strongly contribute to reducing the risk of respiratory virus transmission.

** for a complete overview on which units have been tested, please refer to respective product pages.
Please also refer to our online website for up to date information.

More than

99.9%

of **respiratory viruses** removed in **2.5 minutes**.

Daikin's air purifiers eliminate more than 99.98% of the human coronavirus HCoV-229E in 2.5 minutes. This virus is of the same family as SARS-CoV-2, the coronavirus causing the Covid-19 pandemic. The units have also been evaluated as 99.93% effective against the H1N1 virus (which causes common flu) in 2.5 minutes.

The results are applicable for devices MC30Y, MC55W.

Read through the QR code to understand more about the tests done by Institut Pasteur de Lille.

Discover more



Our Partnership with Institut Pasteur de Lille

What is Institut Pasteur de Lille?

- The Institut Pasteur de Lille is a research foundation, which was founded in 1894. Created to respond to the epidemics of the 19th century, the Institut Pasteur de Lille has been fighting diseases for more than 120 years through research on pathogens, the development of vaccines and drugs and the promotion of preventive measures and good hygiene practices. The Institut Pasteur de Lille is a member of the international network of institutes Pasteur. Present in 25 countries on all continents, the Network brings together 32 institutions united by common missions and values for the benefit of populations. The mission is to put science at the service of health. Today, the Pasteur Institute of Lille has 33 research teams, more than 800 persons, working every day to understand and fight against diseases, to slow down their development and to imagine the treatments of tomorrow.

What does this mean for our air purifiers?

- As a specialist in air quality management, Daikin sees it as its mission to provide innovative solutions and has been selling air purifiers for over 45 years. Its air purifiers and patented air purifying technology, which is applied in other Daikin equipment, have long since proven their effectiveness against air pollution, as well as seasonal pollen and viruses. To reinforce the claim of the effectiveness of its technology, Daikin Europe N.V. entrusted the Institut Pasteur de Lille with the testing of its range of air purifiers. It has now been formally proven that the Daikin models remove more than 99.98% of the human coronavirus HCoV-229E in 2.5 minutes. This is an important achievement.

* Daikin device MC55WVM (commercial names MC55W/VB), tested by Institut Pasteur de Lille, removes 99.98 % of Human Coronavirus HCoV-229E in 2.5 minutes running time at 'turbo' speed in laboratory conditions (air-tight chamber with inner volume 1.4 m^3, no air renewal). Human Coronavirus HCoV-229E is different from the virus responsible for COVID-19, SARS-CoV-2, but belongs to the same family of coronaviruses. | Daikin device MC30Y (commercial names MC30YV/YB), tested by Institut Pasteur de Lille, removes 99.987 % of Human Coronavirus HCoV-229E in 2.5 minutes running time at 'turbo' speed in laboratory conditions (air-tight chamber with inner volume 1.3 m^3, no air renewal). Human Coronavirus HCoV-229E is different from the virus responsible for COVID-19, SARS-CoV-2, but belongs to the same family of coronaviruses. | Daikin device MC30Y (commercial names MC30YV/YB), tested by Institut Pasteur de Lille, removes 99.98 % of Influenza A virus subtype H1N1 in 2.5 minutes running time at 'turbo' speed in laboratory conditions (air-tight chamber with inner volume 1.3 m^3, no air renewal).

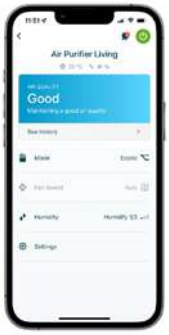


Control your air purifiers with Daikin Onecta App

Take control of your indoor air quality

The Onecta App is for those who live their life on the go and who want to manage their Daikin system from their smartphone. The models MC80Z and MCK70Z come with Onecta App integration. For more information please refer to the product pages.





Control

Customise the system to fit your lifestyle and year-round comfort levels.

- ☑ Adapt settings such as operation mode, fan speed, functions
- ☑ Take control of your indoor air quality by taking control of your Air purifier



Monitor

Receive a thorough overview of how the system is performing and how much energy it consumes.

- ☑ Check the status of the Air Purifying system
- ☑ Access the PM2.5 graphs to evaluate your indoor air quality

Available on the App Store | GET IT ON Google Play



Schedule

Set up a programme outlining when the system should operate, and create up to six actions per day.

- ☑ Schedule operation mode depending on your personal needs
- ☑ Enable holiday mode to save costs



At Daikin, we are constantly developing collaborations to bring in tools that keep you informed of your outdoor air quality to **'make the invisible visible'** such that you don't let dirt accumulate inside your home and keep the air cleaner with our Daikin solution.

Don't let bad outdoor air quality affect your indoor air quality

Indoor air can be

2-5 times worse

than outdoor air

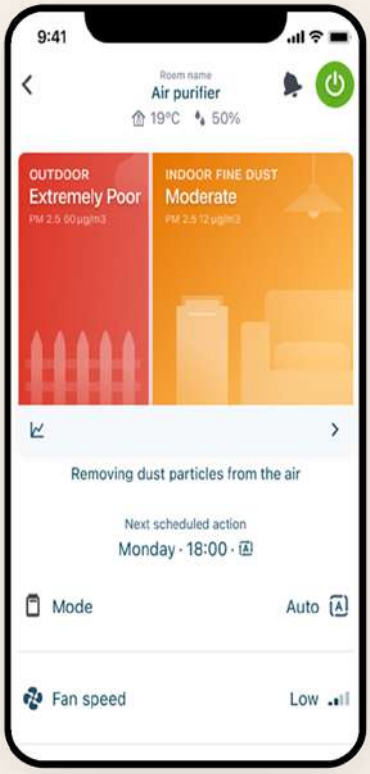
Monitor your outdoor air quality

Our work with

Google Maps Platform

While the PM2.5 sensors in our Daikin air purifiers show the indoor air quality, the outdoor air quality information is brought to our users thanks to our collaboration with Google Maps Platform.

By integrating outdoor air quality & pollen data from Google Maps Platform together with Daikin's indoor air quality data obtained from the PM2.5 sensors on the units, the quality of both indoor and outdoor air is simply available through the Daikin Onecta App – ensuring high awareness about the air quality they breathe. As indoor air quality (IAQ) experts ourselves, with over decades of experience in perfecting the air, our mission is to provide both indoor & outdoor air quality data.



Intelligent Air Purification, minimalistic design & Humidification

MCK70Z



- Onecta App Integration: control indoor air quality with an app, via local network or internet
- Humidification and air purification in one; covers large spaces up to 96 m²
- Intuitive display design with coloured Daikin Eye, visual way of informing users about indoor air quality
- Pure air thanks to Daikin's 'Catch and Clean' approach in decomposing harmful substances
- High performance electrostatic HEPA filter with no need to change for 10 years
- Whisper Quiet operation (down to 18 dB(A))



Air flow up to **420 m³/h**

Air purification up to **96 m²**

650 ml/h humidifying capacity

Intelligent air purification

Absorbs odour via **deodorising filter**

High Performing Electrostatic **HEPA filter**



Sensors

Dust (PM2.5/dust) sensor	•
Odour sensor	•
Temperature sensor	•
Humidity sensor	•

Mode

Auto fan mode	•
Anti-pollen mode	•
Turbo mode	•
Quiet mode	•
Econo mode	•
Circulation mode	•
Moist mode	•

Functions

Catch & clean	•
Deodorizing filter	•
Onecta app	•
Child proof lock	•
Brightness adjustment	•
Auto restart after power failure	•

Onecta app

Flash Streamer

MCK70ZBFW MCK70ZBFH MCK70ZW MCK70ZH

Specifications

Indoor Unit					**70ZW/70ZBFW**	**70ZH/70ZBFH**
Applicable room area				m^2	48(1)/96(2)	
CADR				m^2	375	
Weight	Unit			kg	12.5	
Dimensions	Unit	HeightxWidthxDepth		mm	760x315x315	
Colour					White	Gray
Air flow rate		Air purifying operation	Silent/Low/Medium/Turbo	m^3/h	84/132/210/420	
		Humidifying operation	Silent/Low/Medium/Turbo	m^3/h	84/132/210/420	
Sound pressure level	Air purifying operation	Silent/Low/Medium/Turbo		dBA	18/27/37/54	
	Humidifying operation	Silent/Low/Medium/Turbo		dBA	18/27/37/54	
Humidifying operation	Power input	Silent/L/M/Turbo		kW	0.010/0.012/0.023/0.084	
	Humidification	Turbo		ml/h	700	
	Water tank capacity			l	3.4	
Air purifying operation	Power input	Silent/L/M/Turbo		kW	0.010/0.011/0.020/0.082	
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220-230	

(1)The coverage area is appropriate for operating the unit of maximum fan speed(HH). Coverage area indicates the space where a certain amount of dust particles can be removed in 30 minutes. | (2)Converted to NRCC standards from test values in accordance with JEM1467. | Converted to CADR standards from test values in accordance with JEM1467. | Humidification amount changes in accordance with indoor and outdoor temperature and humidity. Measurement condition: 20°C in temperature, 30% in humidity. | Operating sound levels are the average of values measured at 1m away from the front, left, right and top of the unit. (These are equal to the values in an anechoic chamber) | Electrostatic HEPA filter and humidifying filters are attached in the unit. | Requirements according to JEM1467. | "HI" is displayed when the PM2.5 concentration exceeds 99µg/m³.

Intelligent Air Purification & minimalistic design

MC80Z



- Onecta App Integration: control indoor air quality with an app, via local network or internet
- Air purification of large spaces up to 124 m²
- Intuitive display design with coloured Daikin Eye, visual way of informing users about indoor air quality
- Pure air thanks to Daikin's 'Catch and Clean' approach in decomposing harmful substances
- High performance electrostatic HEPA filter with no need to change for 10 years
- Whisper Quiet operation (down to 19 dB(A))



Air flow up to **480 m³/h**

Air purification up to **124 m²**

Intelligent air purification

Absorbs odour via **deodorising filter**

High Performing Electrostatic **HEPA filter**



Sensors

Dust (PM2.5/dust) sensor	•
Odour sensor	•
Temperature sensor	•

Mode

Auto fan mode	•
Anti-pollen mode	•
Turbo mode	•
Quiet mode	•
Econo mode	•
Circulation mode	•

Functions

Catch & clean	•
Deodorizing filter	•
Onecta app	•
Child proof lock	•
Brightness adjustment	•
Auto restart after power failure	•

Specifications

Onecta app Flash Streamer MC80ZB MC80Z

Indoor Unit					80ZB	80Z
Applicable room area				m²	62(1)/124(2)	
CADR				m²	480	
Weight	Unit			kg	9.8	
Dimensions	Unit	HeightxWidthxDepth		mm	630x315x315	
Colour					Front: White, Top/Side: Dark Grey	
Air flow rate		Air purifying operation	Silent/Low/Medium/Turbo	m³/h	84/132/210/480	
Sound pressure level	Air purifying operation	Silent/Low/Medium/Turbo		dBA	19/25/34/55	
Air purifying operation	Power input	Silent/L/M/Turbo		kW	0.010/0.011/0.020/0.082	
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220-230	

(1)The coverage area is appropriate for operating the unit of maximum fan speed(HH). Coverage area indicates the space where a certain amount of dust particles can be removed in 30 minutes. | (2)Converted to NRCC standards from test values in accordance with JEM1467. | Converted to CADR standards from test values in accordance with JEM1467. | Operating sound levels are the average of values measured at 1m away from the front, left, right and top of the unit. (These are equal to the values in an anechoic chamber) | Electrostatic HEPA filter is attached in the unit. | Other function: Active plasma ion function. Autorestartfunction. | Requirements according to JEM1467. | "HI" is displayed when the PM2.5 concentration exceeds 99µg/m³.

Powerful Air Purification

MC30Y



- Effectiveness against respiratory viruses evaluated by Institut Pasteur de Lille
- Air treatment up to 46m²
- Pure air thanks to Daikin's 'Catch and Clean' approach
- No need to change filter for 10 years thanks to high performance electrostatic HEPA filter
- Whisper quiet operation (19 dB(A))



Air flow up to **180 m³/h**

Air purification up to **45 m²**

Absorbs odour via **deodorising filter**

High Performing Electrostatic **HEPA filter**

Mode

Turbo mode	•
Quiet mode/sleep mode	•

Functions

Catch & clean	•
Deodorizing filter	•
Child proof lock	•
Brightness adjustment	•
Auto restart after power failure	•

Flash Streamer

MC30YV

MC30YB

Specifications

Technical specifications				MC	MC30YV/YB
Applicable room area					23(1)/46(2)
CADR				m³/h	180
Weight	Unit			kg	5.8
Dimensions				mm	565/350/345
Colour					White
Air flow rate		Air purifying operation	Silent/Medium/Turbo	m³/h	60/120/180
Sound pressure level	Air purifying operation	Silent/Medium/Turbo		dBA	19/27/37
Air purifying operation	Power input	Silent/Medium/Turbo		kW	0.008/0.015/0.025
Power supply		Phase/Frequency/Voltage			1~/50/60/220-240/220-30

Standard accessories: Electrostatic HEPA filter; Quantity: 1; Standard accessories: Deodorising filter; Quantity: 1; Standard accessories: Operation manual; Quantity: 1;
(1) The applicable room area is appropriate for operating the unit of maximum fan speed (HH). Applicable room area indicates the space where a certain amount of dust particles can be removed in 30 minutes. (JEM 1467) | (2) The applicable room area is appropriate for operating the unit of maximum fan speed (HH). Applicable room area was calculated in accordance with NRCC-54013 standard using cigarette smoke CADR that was tested accoring to JEM1467. | Converted to CADR standards from test values in accordance with JEM1467. | Operating sound levels are the average of values measured at 1m away from the front, left, right and top of the unit. (These are equal to the values in an anechoic chamber) | Electrostatic HEPA filter is attached in the unit. | Other function: Auto-restart function.

* See notes on p. 25 for detailed claims on Institut Pasteur de Lille test.

Compact, effective, & quiet

MC55W



- Effectiveness against respiratory viruses evaluated by Institut Pasteur de Lille
- Pure air thanks to Daikin's 'Catch and Clean' approach in decomposing harmful substances
- High performance electrostatic HEPA filter with no need to change for 10 years
- Whisper quiet
- Colour LEDs to provide info about indoor air quality



Air flow up to **330 m³/h**

Air purification up to **82 m²**

Absorbs odour via **deodorising filter**

High Performing Electrostatic **HEPA filter**

Sensors

Dust (PM2.5/dust) sensor	•
Odour sensor	•

Mode

Auto fan mode	•
Anti-pollen mode	•
Turbo mode	•
Quiet mode	•
Econo mode	•

Functions

Catch & clean	•
Deodorizing filter	•
Remote Controller	•
Child proof lock	•
Brightness adjustment	•
Auto restart after power failure	•

Flash Streamer

MC55W

MC55VB

Specifications

Single Unit				**MC55W / MC55VB**
Applicable room area			m²	41(1)/82(2)
Dimensions	Unit	HeightxWidthxDepth	mm	500x270x270
Weight	Unit		kg	6.8
Colour				White
Air flow rate		Air purifying operation	Silent/Low/Medium/Turbo m³/h	66/120/192/330
Sound pressure level	Air purifying operation		Silent/Low/Medium/Turbo dBA	19/29/39/53
Air purifying operation	Power input		Silent/Low/Medium/Turbo kW	0.008/0.010/0.015/0.037
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/60/220-240/220-230
Power plug				W: C type/VB: G type (UK)

The applicable room area is appropriate for operating the unit of maximum fan speed (HH). Applicable room area indicates the space where a certain amount of dust particles can be removed in 30 minutes. ((1) in accordance with JEM (2) in accordance with CADR (JEM) & NRCC-54013-2011 standard) | Operating sound levels are the average of values measured at 1 m away from the front, left, right and top of the unit. (These are equal to the values in an anechoic chamber) | Electrostatic HEPA filter is attached in the unit. | Other function: Active plasmation function. Auto-restart function. About the dust collection and deodorizing capacity of an air purifier:

- Not all harmful substances in cigarette smoke (carbon monoxide, etc.) can be removed.
- Not all odour components that emanate continuously (from building materials and pets, etc.) can be removed.

The Daikin air purifier is not a medical device and is not meant to be used as a substitute to any medical or pharmaceutical treatment.

* See notes on p. 25 for detailed claims on Institut Pasteur de Lille test.

Humidification & Air Purification in one

MCK555A



- Humidification and purification in one
- Pure air thanks to Daikin's 'Catch and Clean' approach in decomposing harmful substances
- High performance electrostatic HEPA filter with no need to change for 10 years
- Whisper quiet
- Colour LEDs to provide info about indoor air quality



Air flow up to **330 m³/h**

Air purification up to **82 m²**

500 ml/h humidifying capacity

Absorbs odour via **deodorising filter**

High Performing Electrostatic **HEPA filter**

Sensors

Dust (PM2.5/dust) sensor	•
Odour sensor	•
Humidity sensor	•

Mode

Auto fan mode	•
Anti-pollen mode	•
Turbo mode	•
Quiet mode	•
Econo mode	•
Moist mode	•

Functions

Catch & clean	•
Deodorizing filter	•
Remote Controller	•
Child proof lock	•
Brightness adjustment	•
Auto restart after power failure	•

Preliminary data. Coming soon

HUMIDIFY
Humidification

STREAMER
Flash Streamer

Specifications

Single Unit					**MCK555A**
Applicable room area				m^2	41(1)/82(2)
Dimensions	Unit	HeightxWidthxDepth		mm	700x270x270
Weight	Unit			kg	9.5
Colour					White
Air flow rate		Air purifying operation	Quiet/Low/Standard/Turbo	m^3/h	54/120/192/330
		Humidifying operation	Quiet/Low/Standard/Turbo	m^3/h	54/144/192/330
Sound pressure level	Air purifying operation	Quiet/Low/Standard/Turbo		dBA	20.0/33.0/39.0/53.0
	Humidifying operation	Quiet/Low/Standard/Turbo		dBA	20.0/33.0/39.0/53.0
Humidifying operation	Power input	Quiet/Low/Standard/Turbo		kW	0.009/0014/0.019/0.058
	Humidification	Quiet/Low/Standard/Turbo		ml/h	130/240/300/500
	Water tank capacity			l	2.7
Air purifying operation	Power input	Quiet/Low/Standard/Turbo		kW	0.007/0.010/0.017/0.056
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220-230

The applicable room area is appropriate for operating the unit of maximum fan speed (HH). Applicable room area indicates the space where a certain amount of dust particles can be removed in 30 minutes. ((1) in accordance with JEM (2) in accordance with CADR (JEM) & NRCC-54013-2011 standard) | Humidification amount changes in accordance with indoor and outdoor temperature and humidity. Measurement condition: 20°C in temperature, 30% in humidity. | Operating sound levels are the average of values measured at 1m away from the front, left, right and top of the unit. (These are equal to the values in an anechoic chamber) | Electrostatic HEPA filter and humidifying filters are attached in the unit.

*Note: blue cells contain preliminary data

RICH ASIANS KEVIN KWAN



Residential ventilation

Centralized Heat Recovery Ventilation (CHRV)

The growing need for home ventilation systems

Air quality is crucial for our health and well-being. Indoor air pollution can be even more damaging than the pollution in the air outside, given that people in Europe spend up to 90% of their time indoors. This has a real effect on our health, especially given that indoor air quality can be five times more polluted than outdoor air.

Moreover, in order to make houses, apartments and other dwellings more energy efficient and eco-conscious, they are being built as air-tight as possible – limiting the amount of natural ventilation. As the number of well insulated homes continues to grow, the need for effective residential ventilation becomes more prominent.

4 Reasons to choose a ventilation system for your home:

1. Moisture and condensation
Condensation occurs when humid air is cooled quickly. Moisture forms on windows, walls and other surfaces, resulting in mildew, dampness or even mould. It happens during everyday activities such as showering or cooking when rooms aren't well-ventilated. It's one of the most common problems with indoor air quality. A ventilation system offers a solution. It helps regulate temperature and controls moisture levels.





2. Asthma and respiratory problems
People with asthma, bronchitis and other respiratory problems have more sensitive lungs. Polluted air can trigger these conditions. Dust and mites can cause flare-ups, as can mould. These problems can occur if the air inside our homes is too damp or humid.



3. Reactions to pollution
Poor ventilation causes a build-up of pollutants in indoor air. It can also lead to an accumulation of dirt and dust mites, which may result in unpleasant skin reactions or respiratory issues. Furthermore, inadequate ventilation and accumulation of stale air and CO_2 can contribute to fatigue and headaches.



4. VOC and other chemical dangers
Every day, we use potentially hazardous chemicals in our homes. Volatile organic compounds (VOCs) are emissions from household chemicals that can be toxic at high concentrations. Proper storage of these chemicals is essential, and it is important to ensure that the room where they are stored is well-ventilated. Additionally, carbon monoxide is present in many buildings that use coal or gas-burning appliances. A build-up of this gas can lead to poisoning, but adequate ventilation helps minimise the risk.

Our homes are like lungs. They need consistent circulation of fresh, clean air. That helps protect both the property and the health of the people living there. Discover how a heat recovery ventilation unit can make the air inside your home as clean and healthy as it can be, giving you lasting peace of mind.

What is centralised heat recovery ventilation?

Centralised heat recovery ventilation (CHRV) combines the best of both worlds by keeping air fresh and warm at a low cost. To do this, CHRV systems pump out stale air and renew the indoor atmosphere with clean, fresh air.

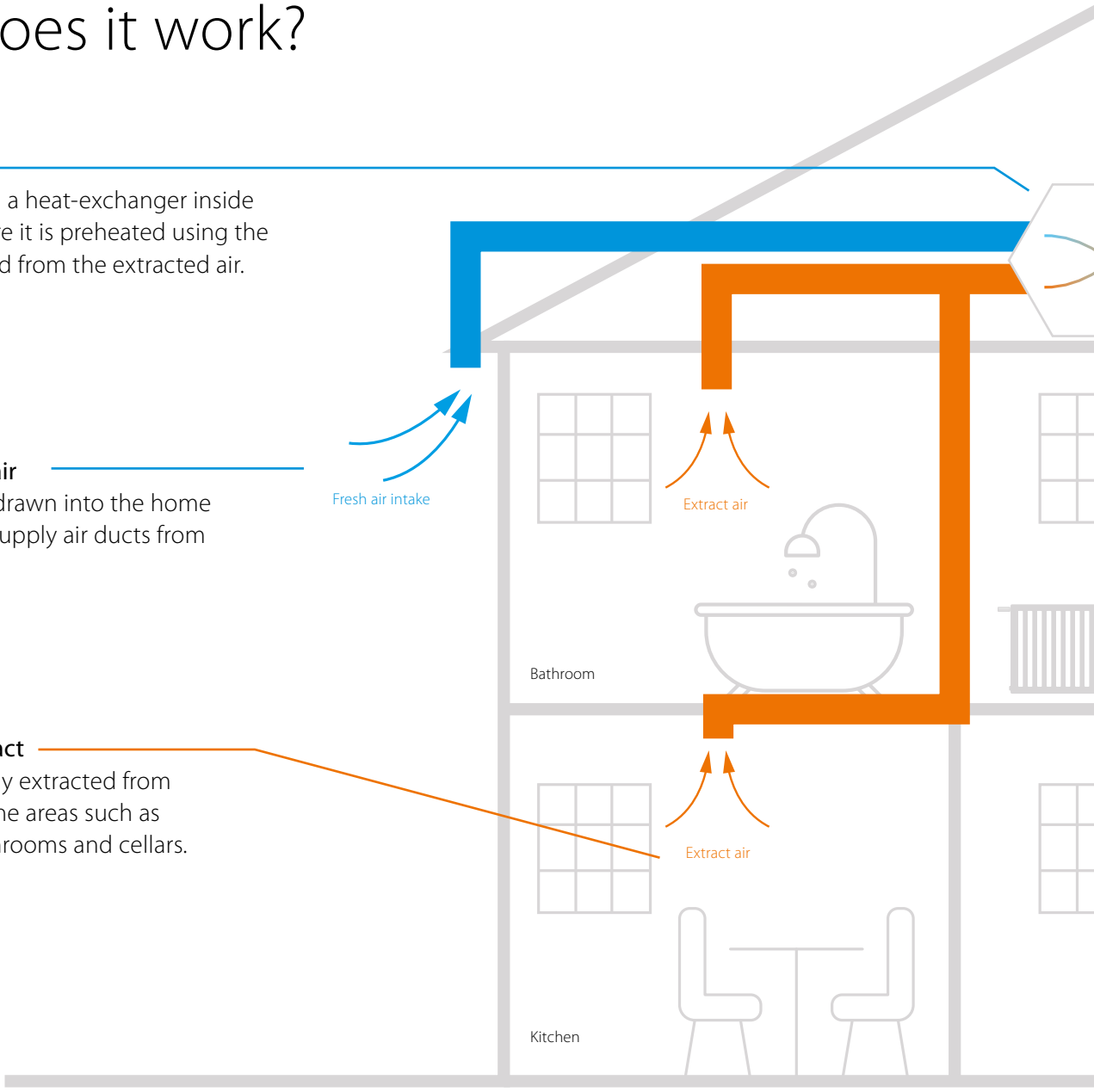
However, before it is completely exhausted from the building, a heat exchanger within these two airflows transfer the warmth leaving the property to the fresh air coming in. By doing this heat transfer, centralised heat recovery ventilation systems can help keep homes at a consistent temperature efficiently and cost-effectively.

How does it work?

1. **Fresh air** flows through a heat-exchanger inside the unit, where it is preheated using the heat recovered from the extracted air.

2. **Fresh, clean air** is constantly drawn into the home through the supply air ducts from the outside.

3. **Stale air extract** is continuously extracted from moisture-prone areas such as kitchens, bathrooms and cellars.



The benefits of ventilation

Proper ventilation is essential for maintaining a healthy, comfortable, and energy-efficient indoor environment in a house.

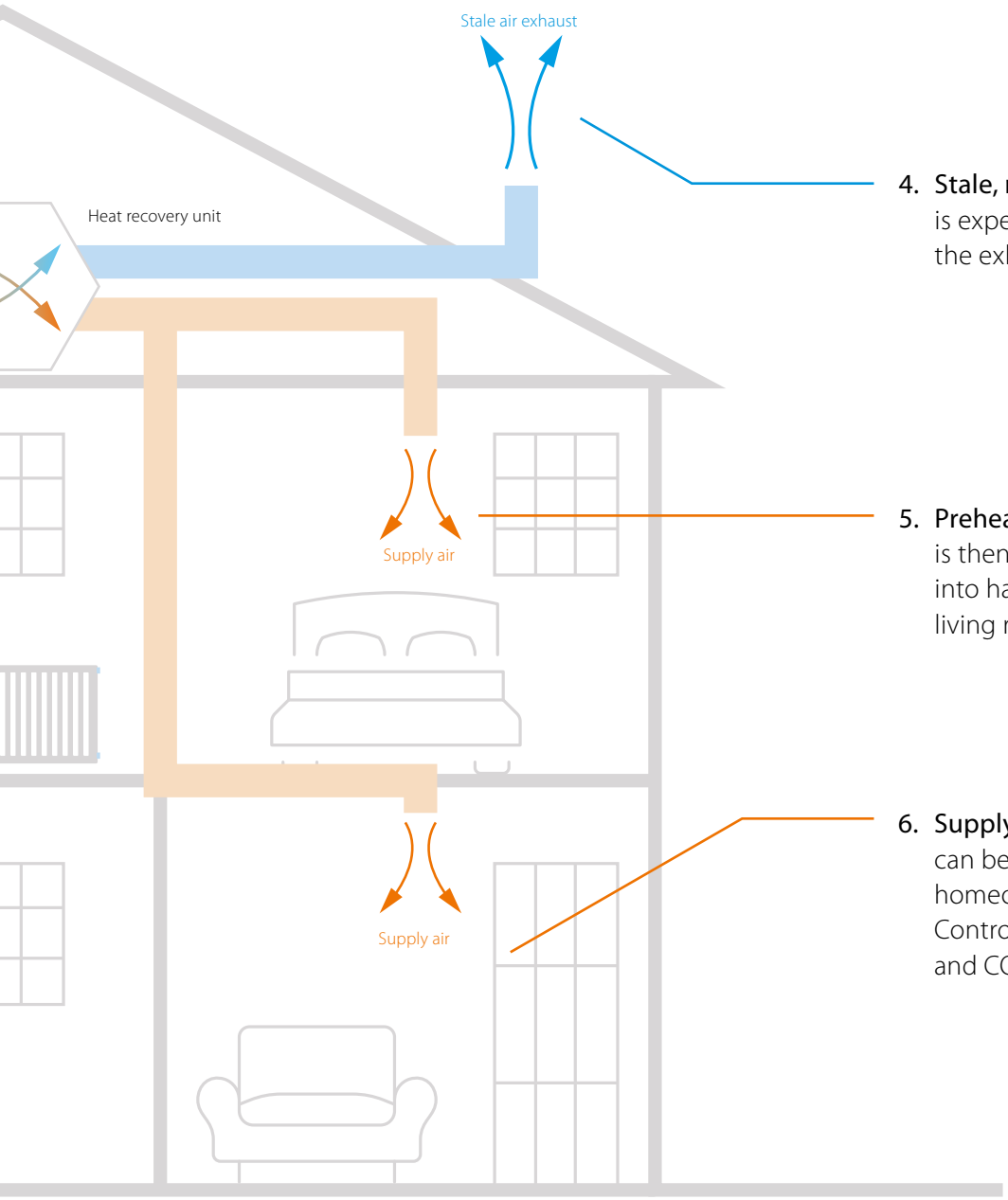
Improved indoor air quality
Ventilation helps to circulate fresh air into the house, which reduces indoor air pollution and the buildup of harmful pollutants, resulting in a healthier living environment and reducing the risk of health problems resulting from poor indoor air quality such as allergies, and other respiratory issues.

Longevity of building materials
Good ventilation helps to prevent damage to building materials due to moisture buildup, which can extend the life of a house and reduce repair and maintenance costs.

Reduce excess moisture
Proper ventilation can help to reduce excess moisture in the house, which can prevent mould growth, dampness, and other associated health problems.

Reduced energy bills
Recovering heat from the outgoing stale air results in avoiding large heat losses in buildings, therefore contributing to the overall energy performance of a building and allowing households to save up to 30%* of their heating costs.

*As calculated by European Ventilation Industry Association



4. **Stale, moisture-laden air** is expelled from the home through the exhaust vent/ grille.

5. **Preheated air** is then continuously distributed into habitable rooms such as living rooms and bedrooms.

6. **Supply air** can be boosted at any time by the homeowner using control options. Controls options for humidity and CO_2 can also be used.



Why DUCO?

DUCO offers end-to-end solutions

One-stop-shop for your end-to-end ventilation solution
Complete range of Centralised Heat Recovery Ventilation (CHRV) units, ducts & accessories.

Smart demand control
The room is only ventilated when necessary and in the correct amount. CO_2 concentration and relative humidity are used as indicators. This helps avoiding unnecessary heat loss while guaranteeing an optimal indoor climate.

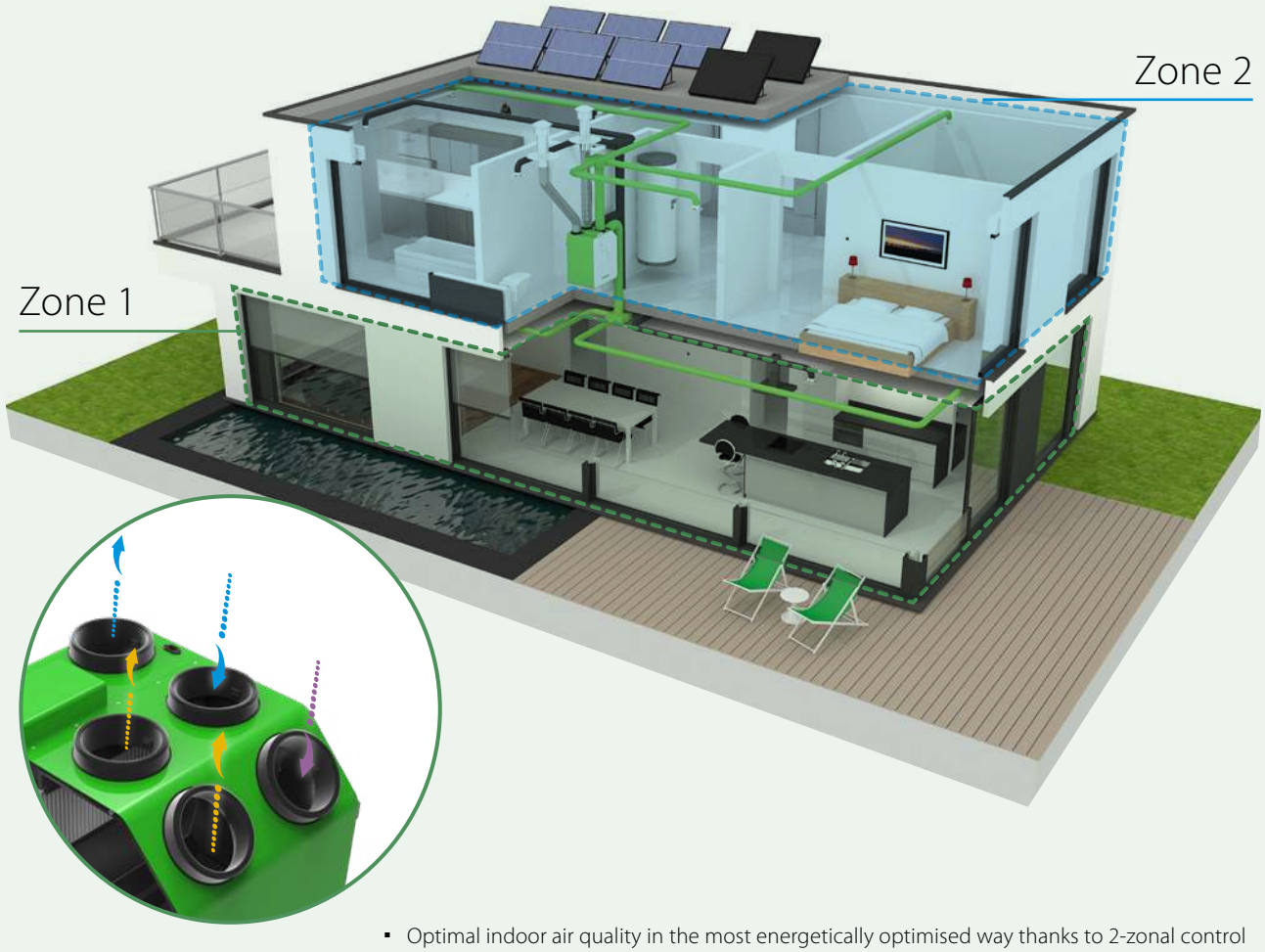
Low noise guaranteed
A comfortable indoor climate is created by whisper-quiet ventilation systems. DUCO excels in acoustics both in its supply and exhaust channels.

Intuitive quotation process
Upon request, Daikin can provide an easy-to-use tool to calculate the units and accessories needed for your specific projects.
A complete calculation request can also be carried out on Daikin Heating Solutions Navigator Platform.

Automatic calibration
The automatic calibration, whereby the measuring and adjustment technology is based on the principles of calibration under constant pressure, always offers a 100% guarantee of a qualitative end result and translates into a 50% saving in set-up time for the installer.

Connectivity
With the optional Communication Print you have the option of allowing the DUCO ventilation systems to communicate via Modbus and/or Ethernet. Modbus integration enables them to be linked to a building management system.

High energy conversion efficiency
The combination of dynamic air distribution filters and high performance heat exchangers result in very high efficiency ratio.



- Optimal indoor air quality in the most energetically optimised way thanks to 2-zonal control
- Low noise guaranteed by our ventilation system
- Automatic calibration

Only at Daikin

Thanks to DUCO, Daikin offers Centralised Heat Recovery Ventilation (CHRV) systems with an integrated 2-zone valve. With the 2-zone version of the DucoBox Energy Premium, the product range is extended with a unique ventilation system with embedded 2-zone control. If a certain zone does not require ventilation, that zone is not ventilated. Cost savings on heating, lower consumption and noise comfort of the unit itself (lower rpm) are the logical consequences.

Sensors meticulously detect the residents' movements throughout the home. This makes it possible to automatically determine where, when and in what amount ventilation is required.

By controlling the two zones separately with a built-in valve, the consumption of the EC fans is reduced considerably, which translates into an A+ energy label.

CHRV

A complete portfolio for complete ventilation solutions

Fresh air, whenever you need!

Europe's **quietest and smartest** CHRV!







DucoBox Energy Comfort & Comfort Plus

A solution for every situation
Flow rate up to 550m³/h (at 200 Pa)

Left/right exchangeable
Exchange between left and right variant is carried out 100% by software (by display)

Automatic calibration
Calibration at constant pressure saves up to 50% on the configuration time

DucoBox Energy Premium

Smart 2-zone control
Saving up to 40% energy through smart zone control

Quietest CHRV on the market
Enjoy a good night's sleep!

Automatic calibration
Calibration at constant pressure saves up to 50% on the configuration time

DucoBox Energy Sky

Easy installation
Very lightweight (19 kg) and compact (295 mm height)

Flexible solution:
Requires a limited space to be installed and can be either wall mounted, or ceiling mounted

All the advantages of the other DUCO CHRV systems are adopted, including the possibility of 2-zone control, automatic calibration, copy function, head-up display



DucoFlex

Thanks to DUCO, with DucoFlex, Daikin offers a complete air ducting **system**. If you use this **installation-friendly** air-duct system you will enjoy the **energy-efficient and quiet operation** of the ventilation system.

On-demand ventilation

Historically, CHRV-units were running **continuously**: 24 hours a day, 7 days a week. This was deemed to be "ok" as there was "heat recovery" anyway, and so the energy losses were deemed to be small.

DUCO feels that this **"old school"-way-of-thinking** is a thing of the past and decided to go a step beyond the "normal" operation-mode of a "traditional" CHRV-system.

So next to offering user control options on the display or via a remote control; next to offering the possibility to make the unit function on a time-schedule, DUCO also offers true "on demand" solutions which result in true energetically optimised ventilation-solutions: **only ventilate when necessary, where it is necessary and for as long as it's necessary.**

Local detection
Sensors in the room



CO_2 or humidity



Presence detection

Central detection
Sensors in the ventilation unit



CO_2 / humidity / presence detection

How does it work?

Sensors permanently measure the indoor air quality in a room (or centrally, depending on the need): if the indoor air quality (CO_2 or humidity) is found to be OK, **the ventilation is put to a strict minimum** (minimum energy consumption and minimum heat losses).

On the other hand, if the indoor air quality is found to be or become worry-some, the ventilation is triggered immediately in a modular way, i.e. more or less intense according to **intelligent algorithms** (energy is only used when needed to reach healthy indoor air).

With an **"on demand"** DUCO-system, the occupant can always be assured to breathe the best possible indoor air, whilst also using the least amount of energy! DUCO brings you the **smartest** ventilation solutions!

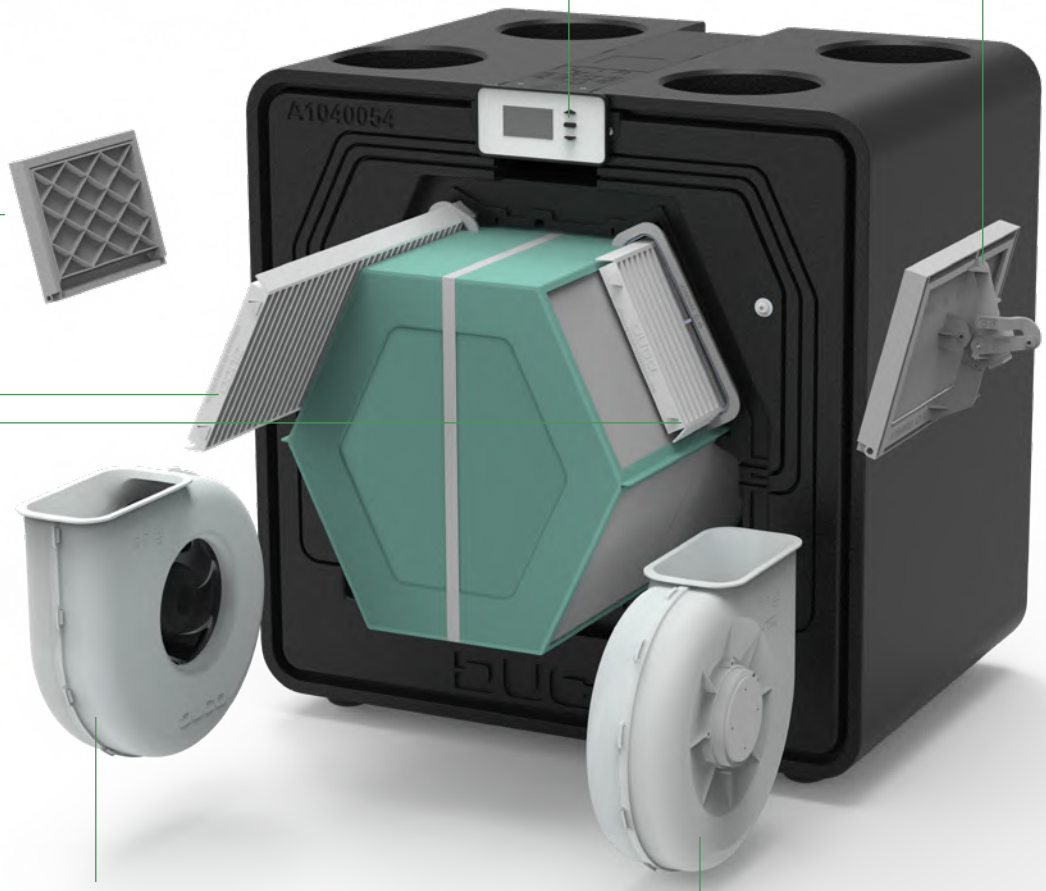


DucoBox
Energy Comfort

Making life easy for installers

This smart and silent ventilation unit is the ideal solution for apartments and houses due to its compact size. With the addition of DucoBox Energy Comfort D400 to our portfolio, this range now offers adjustable capacity of up to 325 m^3/h and 400 m^3/h.

Patented principle of double by-pass



Dynamic Airflow Filters
For maximum efficiency

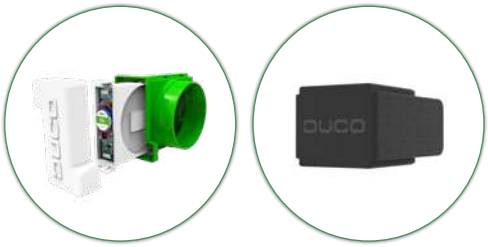
Low power consumption due to energy-efficient EC motors

Ventilation unit



Type of DucoBox	Max air flow at 150 Pa	Plug	Article reference
DucoBox Energy Comfort D325	325 m³/h	F	00004649
DucoBox Energy Comfort D325 FR (NF Unit: France only)	325 m³/h	F	00004657
DucoBox Energy Comfort 325	325 m³/h	F	00004485
DucoBox Energy Comfort D400	400 m³/h	F	00004707
DucoBox Energy Comfort D325 UK	325 m³/h	G	00004658
DucoBox Energy Comfort 325 UK	325 m³/h	G	00004591
DucoBox Energy Comfort D400 UK	400 m³/h	G	00004757

Optional pre-heater and optional multi-zoning valve



L/R switch - 100% software-based

This unit is very user-friendly because physical interventions are not necessary. The left/right switch is carried out 100% by software thanks to a patented principle of double by-pass.

Compact & light unit:

This lightweight unit starting from 21kg can easily be installed by 1 person. With its compact dimensions, the DucoBox Energy Comfort 325/D325 is ideal for a small technical space!

starting **21 kg**



Smart copy function

Thanks to a "copy" function which is integrated on software level, the installer has the possibility to copy the settings and parametrisation of one DucoBox Energy Comfort onto the next DucoBox Energy Comfort. This is particularly useful in a serial construction with the same types of houses.



Automatic calibration

Relying on the principles of calibration at constant pressure, this method achieves a 50% saving on calibration time. DUCO saves you time and money.

Smart demand control based on CO_2 and/or humidity measurement

Available in white/black colours to fit into any house interiors.



DucoBox Energy Comfort 325 - D325 - D400



DucoBox Energy Comfort

DucoBox Energy Comfort UK

DucoBox Energy Comfort FR

With 2 or more sensors



With 1 sensor/ manual/ clock



Physical Properties			**325/D325**	**D400**
Width x Height x Depth		mm	700 x 705 x 525	756 x 800 x 584
Casing			Coated sheet steel + EPP	
Colours			White + Black	
Connections			Inner Diameter: Ø 160 mm	Inner Diameter: Ø 180 mm
Condensate drain			Ø 32 mm (1 ¼") (2x)	
Heat exchanger			PET/ Polystryene	v1: PP - v2: PET/Alu
Material of inside section			EPP / PP / ABS	
Weight			21 kg	31 kg
Power cable length			2 m (from top of unit)	
Mounting			Wall mounting (standard) Floor mounting as an option using support frame	

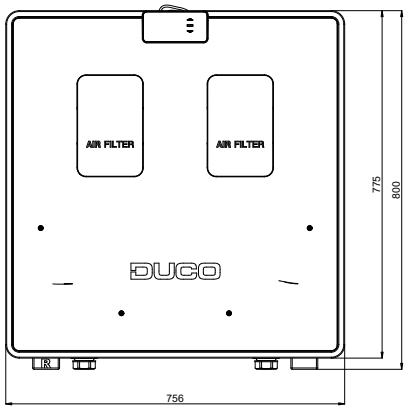
Miscellaneous Properties			**325/D325**	**D400**
Energy class			With two sensors: A+ Other: A	
Specific energy consumption (SEC)	Cold	kWh/(m².a)	-83.6 (1)	-76.9 (1)
	Average		-43.9 (1)	-39.1 (1)
	Warm		-18.5 (1)	-14.8 (1)
Maximum flow rate at 100 Pa ESP		m³/h	325	400
Sound power level LWA		dBA	55	
Filters			Dynamic airflow filter supply air (460 x 185 x 15 mm) Standard: ISO 16890 Coarse 65 % (= G4) Optional: ISO 16890 ePM1 55% (= F7) Dynamic airflow filter exhaust air (460 x 185 x 15 mm) Standard: ISO 16890 Coarse 65 % (= G4)	Dynamic airflow filter supply air (520 x 190 x 15 mm) Standard: ISO 16890 Coarse 65 % (= G4) Optional: ISO 16890 ePM1 55% (= F7) Dynamic airflow filter exhaust air (520 x 190 x 15 mm) Standard: ISO 16890 Coarse 65 % (= G4)
Summer by-pass			Fully (100% modulating)	
Frost protection			Imbalance or optional external heater	
Fans			EC fan with backward curved blades	
Automatic Calibration			Yes (constant pressure)	
Constant flow regulation			Yes	
Passive cooling			Automatic passive cooling control	
Operation			Integrated display Use via User controllers and CO_2 or Humidity Sensors	
Sensors			Integrated: pressure, temperature, onboard switch sensor External: CO_2 (via optional Sensor), Humidity (via optional Sensor or measurement in ETA line), external Switch Sensor (voltage-free input) (optional)	
Communication			Standard: Duco RF, Duco Wired, Switch Sensor Expandable with Communication Print: Modbus, PWM-IN, PWM-OUT, Switch Sensor (3x), Ethernet, Micro SD-card slot	

Electrical Characteristics	**325/D325**	**D400**
Maximum electrical power	118 W (2 x 59 W)	145 W (2 x 72.5 W)
Power Supply	230 V, 50 Hz Via 3-core power cable with earthed plug	
Contacts	0-10 V in/output	
Type of motor	DC	
Energy conversion efficiency	At 325 m³/h: 85% At 279 m³/h: 86% At 277 m³/h: 88%	At 400 m³/h: 83% At 351 m³/h: 84% At 307 m³/h: 85%

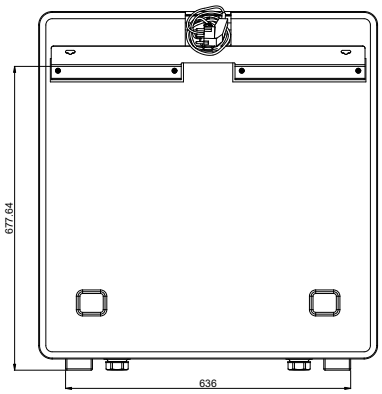
(1) Manual control (no DCV)

Dimensions DucoBox Energy Comfort D400

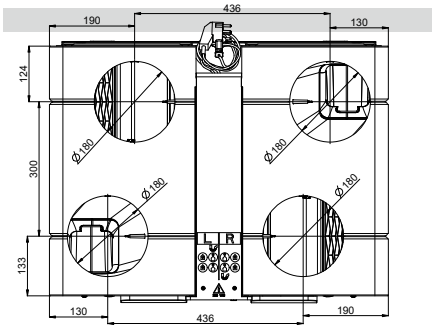
Front view



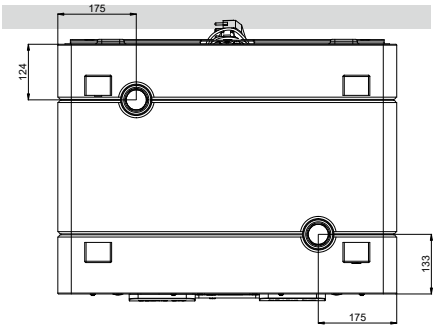
Rear view



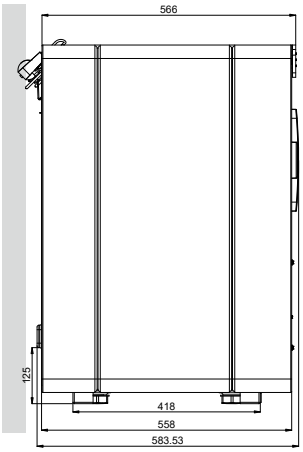
Top view



Bottom view

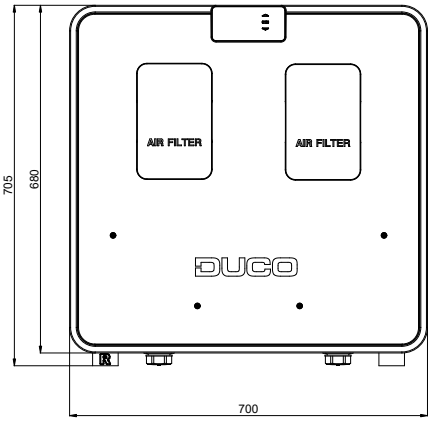


Side view

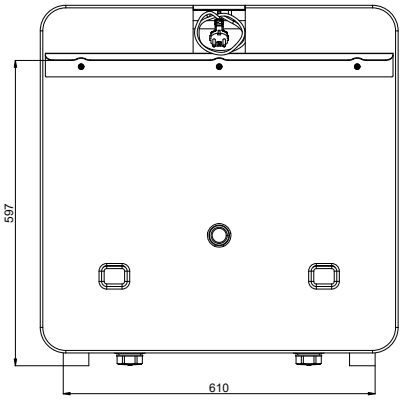


Dimensions DucoBox Energy Comfort 325/D325

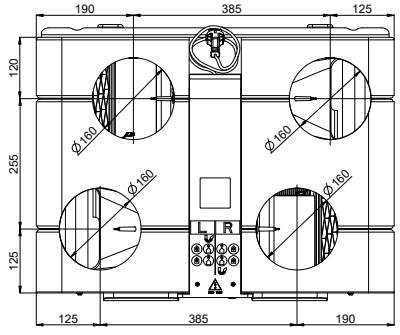
Front view



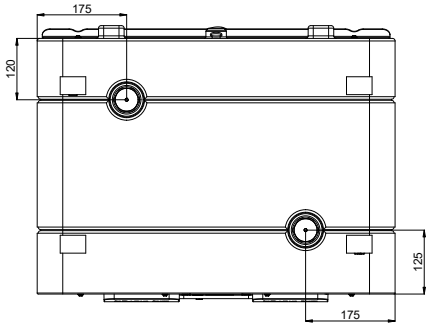
Rear view



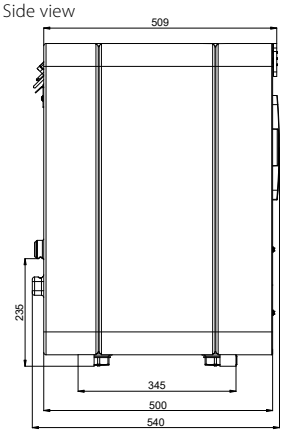
Top view



Bottom view



Side view



DucoBox Energy Comfort Plus (D350/D450/D550)

First choice for building projects

This smart and even more silent ventilation unit with metallic casing can be chosen with a capacity of up to 550 m^3/h.

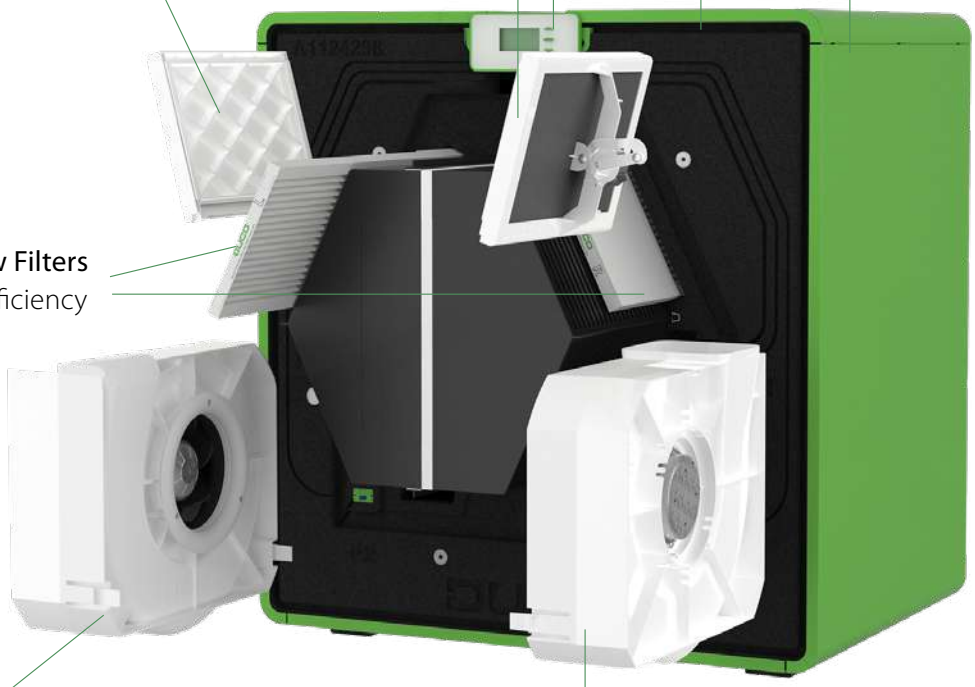
Unique for this range: **3 models for 3 different airflows**

L/R interchangeable
100% software-based

Patented principle
of double by-pass

Smart 2-zone control
with external valves

Comfort Plus with acoustic casing =
10dB quieter!



Dynamic Airflow Filters
For maximum efficiency

Low power consumption
due to energy-efficient EC motors

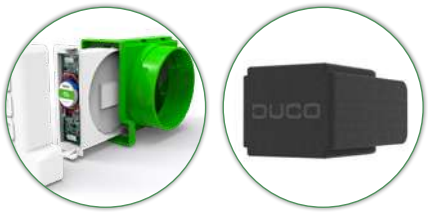


Smart demand management based on CO_2 and/or humidity measurement



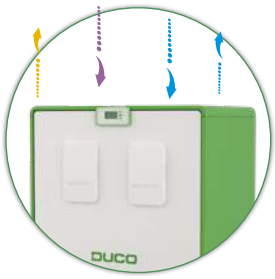
Type of DucoBox	Passive House Certified Component	Max air flow at 150 Pa	Plug	Article reference
DucoBox Energy Comfort Plus D350		350 m³/h	F	00004704
DucoBox Energy Comfort Plus D450		450 m³/h	F	00004705
DucoBox Energy Comfort Plus D550		550 m³/h	F	00004706
DucoBox Energy Comfort Plus D350 UK		350 m³/h	G	00004758
DucoBox Energy Comfort Plus D450 UK		450 m³/h	G	00004759
DucoBox Energy Comfort Plus D550 UK		550 m³/h	G	00004923

Optional pre-heater and optional multi-zoning valve



L/R switch - 100% software-based

This unit is very user-friendly because physical interventions are not necessary. The left/right switch is carried out 100% by software thanks to a patented principle of double by-pass.



Compact unit: 760 x 803 x 584 mm

With its compact dimensions, the DucoBox Energy Comfort is ideal for a small technical space!



Smart copy function

Thanks to a "copy" function which is integrated on software level, the installer has the possibility to copy the settings and parametrisation of one DucoBox Energy Comfort Plus onto the next DucoBox Energy Comfort Plus. This is particularly useful in a serial construction with the same types of houses.

Automatic calibration

Relying on the principles of calibration at constant pressure, this method achieves up to 50% saving on calibration time. DUCO saves you time.



Smart demand control based on CO_2 and/or humidity measurement

Available in white/black colours to fit into any house interiors.

DucoBox Energy Comfort Plus D350-D450-D550



DucoBox Energy Comfort Plus

DucoBox Energy Comfort Plus UK

With 2 or more sensors



With 1 sensor/ manual/ clock



Physical Properties			**D350**	**D450**	**D550**
Width x Height x Depth		mm	760 x 803 x 584		
Casing			Coated sheet steel		
Colours			White + Green		
Connections			Inner Diameter: Ø 180mm		
Condensate drain			Ø 32 mm (1 ¼") (2x)		
Heat exchanger			v1: PP - v2: PET/Alu		
Material of inside section			EPP / PP / ABS		
Weight			47 kg		
Power cable length			2 m (from top of unit)		
Mounting			Wall mounting (standard) Floor mounting as an option using support frame		

Miscellaneous Properties			**D350**	**D450**	**D550**
Energy class			With two sensors: A+ Other: A		
Specific energy consumption (SEC)	Cold	kWh/(m².a)	-77.8 (1)	-76.2 (1)	-72.8 (1)
	Average		-39.7 (1)	-38.5 (1)	-35.9 (1)
	Warm		-39.7 (1)	-38.5 (1)	-35.9 (1)
Maximum flow rate at 100 Pa ESP		m³/h	350	450	550
Sound power level LWA		dBA	48	49	54
Filters			Dynamic airflow filter supply air (520 x 190 x 15 mm) Standard: ISO 16890 Coarse 65 % (= G4) Optional: ISO 16890 ePM1 55% (= F7) Dynamic airflow filter exhaust air (520 x 190 x 15 mm) Standard: ISO 16890 Coarse 65 % (= G4)		
Summer by-pass			Fully (100% modulating)		
Frost protection			Imbalance or optional external heater		
Fans			EC fan with backward curved blades		
Automatic Calibration			Yes (constant pressure)		
Constant flow regulation			Yes		
Passive cooling			Automatic passive cooling control		
Operation			Integrated display Use via User controllers and CO_2 or Humidity Sensors		
Sensors			Integrated: pressure, temperature, onboard switch sensor External: CO_2 (via optional Sensor), Humidity (via optional Sensor or measurement in ETA line), external Switch Sensor (voltage free input) (optional)		
Communication			Standard: Duco RF, Duco Wired, Switch Sensor Expandable with Communication Print: Modbus, PWM-IN, PWM-OUT, Switch Sensor (3x), Ethernet, Micro SD-card slot		

Electrical Characteristics	**D350**	**D450**	**D550**
Maximum electrical power	117 W (2 x 58.5 W)	196 W (2 x 98 W)	276 W (2 x 133.5 W)
Power Supply	230 V, 50 Hz		
	Via 3-core power cable with earthed plug		
Contacts	0-10 V in/output		
Type of motor	DC		
Energy conversion efficiency	At 350 m³/h: 84% At 307 m³/h: 85% At 255 m³/h: 86%	At 450 m³/h: 81% At 418 m³/h: 82% At 377 m³/h: 83%	At 550 m³/h: 78% At 515 m³/h: 79% At 471 m³/h: 80%

(1) Manual control (no DCV)

Control components - DucoBox Energy Comfort/Comfort Plus



Humidity sensor

This sensor is placed in the extract air duct (ETA) of the DucoBox Energy Comfort and centrally measures the humidity of the air extracted from the house. A maximum of one Humidity Sensor (ETA) per unit.

Peak power:	Communication:	Power supply:
< 1 W	via supplied cable	From the DucoBox

NEW

Humidity Sensor (Energy Comfort & Energy Comfort Plus)	00004723

The Humidity Sensor is installed in a borehole (Ø 10mm) in an extraction duct with diameter of your choice.



External 2-zone

The 2-zone control for the supply to the home is done quickly and discreetly by the compact iAV valves. A valve is provided for each branch to the various zones.

Peak power:	Communication:	Power supply:
< 7 W	Wired connection to DucoBox	24 VDC (to be provided externally)

Multizone Valve DucoBox Energy Comfort (Plus) (Sensorless) Ø125	00004761
Multizone Valve DucoBox Energy Comfort (Plus) (Sensorless) Ø160	00004760

External control components

The DucoBox Energy Comfort/Comfort Plus can be linked with the following external control components.

User controllers and room sensors	Please refer to dedicated chapter on control components
Switch sensor (for switch detection)	Please refer to dedicated chapter on control components

Options & accessories - DucoBox Energy Comfort / Comfort Plus

NEW



Mounting chair standing (Energy Comfort D325)	00004546
Standing chair (Energy Premium / Comfort D400/Plus)	00004740

In situations where wall mounting of the DucoBox Energy Comfort (Plus) is not possible, this support frame enables floor mounting.
Use of a flat siphon is required.

Width x Height x Depth (incl. DucoBox Energy Comfort D325): 700 x 828 x 525 mm
Width x Height x Depth (incl. DucoBox Energy Comfort D400): 700 x 933 x 525 mm
Width x Height x Depth (incl. DucoBox Energy Comfort Plus): 700 x 936 x 525 mm



Siphon flat (Energy Premium & Comfort)	00004376

This flat diaphragm siphon with a height of 64 mm saves space and reduces the risk of air leaks.
The siphon can be installed 'dry' and does not dry out on warm days.



Filter set 2 x Coarse 65 % (Energy Comfort D325)	00004547
Filterset Coarse 65% /ePM1 55% (Energy Comfort D325)	00004661
Filterset 2 x Coarse 65 % (Energy Comfort D400 & Plus D350/D450/D550)	00004741
Filterset Coarse 65% /ePM1 55% (Energy Comfort D400 & Plus D350/D450/D550)	00004742

The filter sets for the DucoBox Energy Comfort (Plus) include the following filters: For supply air (SUP): choice between Coarse 65 % (≈ G4) or ePM1 55 % filter (≈ F7). The ePM1 55% filter lets fewer fine particles through, which has a positive influence on air quality (e.g. for people who have allergies). For extract air (ETA): Coarse 65 % filter (≈ G4)



Coaxial cable set 8m (Energy Premium / Comfort / Comfort Plus) 00004418

The set comprises an 8 m long coaxial cable with pre-fitted connectors at both ends. This set can be used to relocate DucoBox Energy Comfort / Premium antenna, if necessary, to a spot where the RF range is optimal.



Connectivity Board Modbus and WIFI 0004810 (Reference to be changed to 00004945 as of Q1 CY25)

The optional Duco Connectivity Board can be applied within the DucoBox Energy. This PCB enables interfacing towards home automation and building management systems via REST API (locally or via the cloud) or Modbus TCP (locally). Both are possible via Ethernet or Wi-Fi.



Muff with rubber D160/D160 (M/M) [connection piece with joint] 00004724

Muff with rubber D180/D160 (M/M) [connection piece with joint] 00004725

Muff with rubber D180/D180 (M/M) [connection piece with joint] 00004726

Muff with rubber D200/D180 (M/M) [connection piece with joint] 00004727

The connection pieces with rubber are used to make a quick and good connection between ducts (exhaust and/or supply) or between a duct and a DucoBox. Thanks to the pre-fitted rubber seal, an airtightness class of up to D can be guaranteed at the connection! They are available in 4 versions: Ø160/Ø160, Ø160/Ø180, Ø180/Ø180 and Ø180/Ø200... a solution for every situation!



Pre-Heater DucoBox Energy Comfort (Plus) - 1,425W 00004807

Pre-Heater DucoBox Energy Comfort (Plus) UK - 1,425W 00004825

The Pre-heater is a frost protection based on an electrical resistance of up to 1,425W that can optionally be applied in the ODA connection of DucoBox Energy Comfort (Plus). The resistance is modulatively controlled based on various temperature readings in the ventilation unit.

The heater is attached between the unit and the air duct via connectors. The connectors depend on the type of unit and the flow rate. Refer to the table below for the right combination.

Type of unit	Flow rate	1 Connector	2 Heater	3 Connector
Comfort 325 & D325	Up to 250 m^3/h	D160/D180 00004725	Pre-Heater 00004807 00004825	D160/D180 00004725
	Up to 350 m^3/h	D180/D180 00004726		D160/D180 00004725
Comfort D400 Comfort Plus D350 Comfort Plus D450 Comfort Plus D550	Up to 250 m^3/h	D160/D180 00004725		D180/D180 00004726
	Up to 350 m^3/h	D180/D180 00004726		D180/D180 00004726
	Up to 550 m^3/h	D180/D200 00004727		D180/D180 00004726





Power supply 230VAC-24VDC/20W + housing 00004763

The Duco Power Supply 230VAC-24VDC/20W is the best solution to power Duco Wired components from a central 230V connection.
The component comes with a surface-mounted junction box as standard. The sum of the peak power of all connected DUCO components can be 20W at most when using one Power Supply.



Duco Wired power adapter 230VAC-24VDC/20W 00004762

The Duco Power Adapter 230VAC-24VDC/20W is the solution to power Duco Wired components from a 230V socket. The sum of the peak power of all connected DUCO components can be 20W at most when using one Power Supply.



Flow regulator 15-50 m^3/h Ø80 00004722

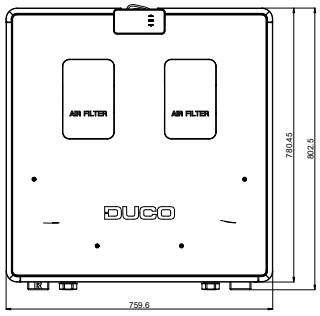
Flow regulator 15-50 m^3/h Ø125 00004836

Flow regulator 50-100 m^3/h Ø125 00004837

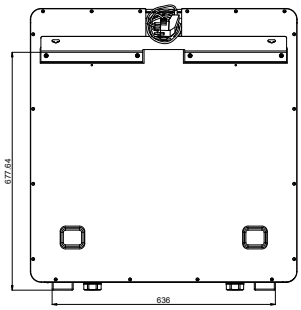
The adjustable flow regulator is an element that is placed in a duct to obtain a constant flow in a pressure range between 50 and 250 Pascal. It is used for both supply and extraction. Specifically for French market.

Dimensions DucoBox Energy Comfort Plus D350

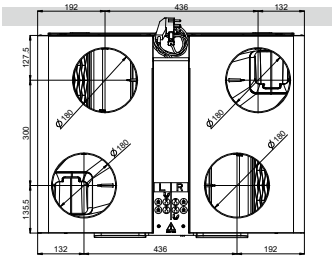
Front view



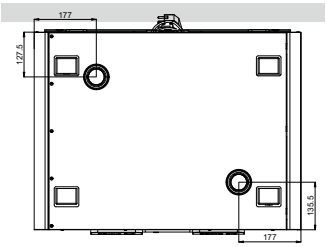
Rear view



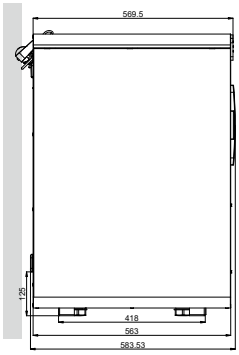
Top view



Bottom view

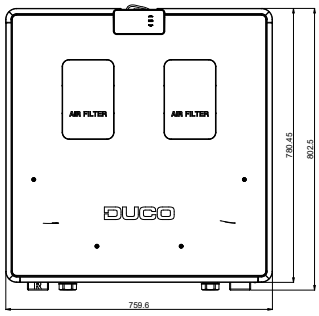


Side view

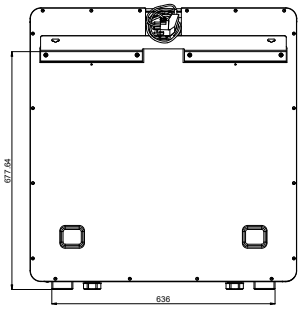


Dimensions DucoBox Energy Comfort Plus D450

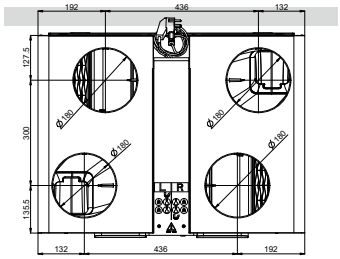
Front view



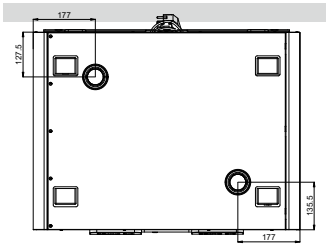
Rear view



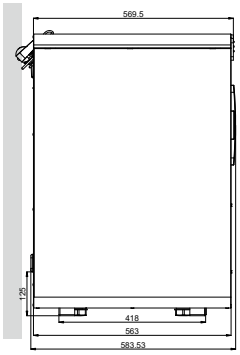
Top view



Bottom view

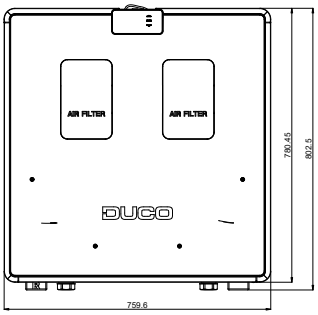


Side view

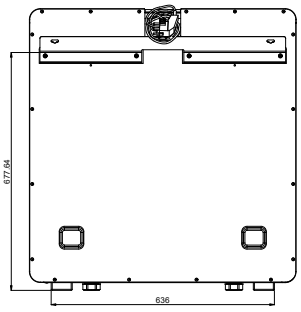


Dimensions DucoBox Energy Comfort Plus D550

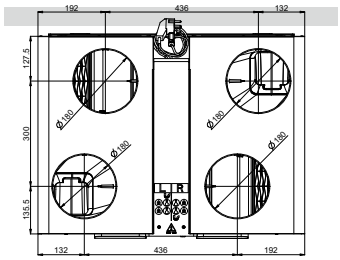
Front view



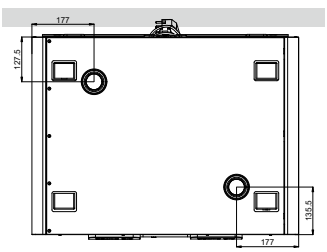
Rear view



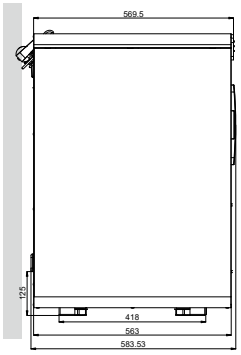
Top view



Bottom view

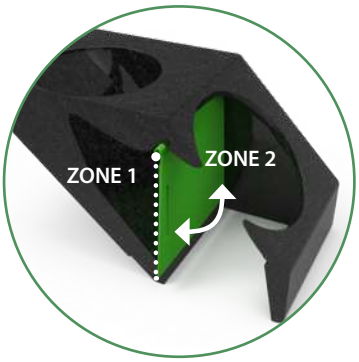


Side view



DucoBox Energy Premium

The DucoBox Energy Premium raises CHRV with heat recovery to the next level. Ideal for installation in an energy-neutral home of the future, automatic calibration and integrated 2-zone control with demand control ensure ultra-quiet, intelligent and energy-saving operation.



Patented 2-zone system (optional)

The day and night zone are being controlled separately by a valve which is integrated in the unit itself. Steering can happen based on time schedules or based on CO_2 or humidity measurements, thereby significantly improving the energy efficiency!



Favourable fan positioning

2 standard air filters

Distinguishing features

- Demand-controlled balanced system with heat recovery
- Lowest sound power (air supply) in the market
- Patented 2-zone control guarantees maximum energy efficiency
- Automatic calibration reduces installation time by at least 50%
- Modular set-up of on-demand components
- Minimum number of components
- Smart communication with domotic systems through Modbus or ethernet

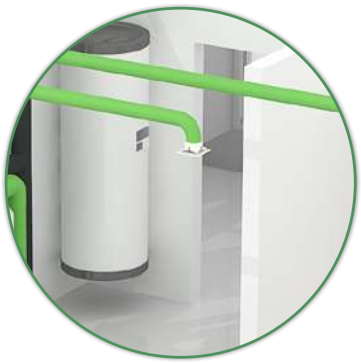


Smart humidity measurement and pressure sensors

Intelligent preheater

Heat exchanger
for maximum efficiency

Low noise guaranteed



Automatic calibration

The automatic calibration, which is based on the principle of constant pressure, allows for a very fast and accurate calibration. This easily reduces set-up time to 50%! DUCO saves you time and money.

Ventilation unit



The DucoBox Energy Premium is available in a left-hand variant (= bevelled side left) and right-hand variant (= bevelled side right). On the bevelled side, an exhaust duct and supply duct are connected to the house (ETA and SUP).

The DucoBox Energy Premium is provided with frost protection through an imbalance method, which may be supplemented with an optional heater.

1-Zone Variant

Type of DucoBox	Passive House Certified Component	Max air flow at 150 Pa	Pre-Heater included	Plug	Left	Right
DucoBox Energy Premium 325-1ZS		325 m³/h		F	00004358	00004359
DucoBox Energy Premium 325-1ZH		325 m³/h	•	F	00004360	00004361
DucoBox Energy Premium 400-1ZS		400 m³/h		F	00004366	00004367
DucoBox Energy Premium 400-1ZH		400 m³/h	•	F	00004368	00004369
DucoBox Energy Premium 325-1ZS (UK)		325 m³/h		G	00004456	00004460
DucoBox Energy Premium 325-1ZH (UK)		325 m³/h	•	G	00004457	00004461
DucoBox Energy Premium 400-1ZS (UK)		400 m³/h		G	00004464	00004468
DucoBox Energy Premium 400-1ZH (UK)		400 m³/h	•	G	00004465	00004469

2-Zone Variant

Type of DucoBox	Passive House Certified Component	Max air flow at 150 Pa	Pre-Heater included	Plug	Left	Right
DucoBox Energy Premium 325-2ZS		325 m³/h		F	00004362	00004363
DucoBox Energy Premium 325-2ZH		325 m³/h	•	F	00004364	00004365
DucoBox Energy Premium 400-2ZS		400 m³/h		F	00004370	00004371
DucoBox Energy Premium 400-2ZH		400 m³/h	•	F	00004372	00004373
DucoBox Energy Premium 325-2ZS (UK)		325 m³/h		G	00004458	00004462
DucoBox Energy Premium 325-2ZH (UK)		325 m³/h	•	G	00004459	00004463
DucoBox Energy Premium 400-2ZS (UK)		400 m³/h		G	00004466	00004470
DucoBox Energy Premium 400-2ZH (UK)		400 m³/h	•	G	00004467	00004471

1Z = 1 zone | 2Z = 2 zones
S = without heater | H = with heater

Control components - DucoBox Energy Premium



Box sensor

This sensor is fitted in the DucoBox Energy Premium and it measures the humidity content of the air extracted from the dwelling. A maximum of one Humidity Box sensor per unit.

Peak power:	Stand-by power:	Power supply:
< 1 W	< 1 W	From the DucoBox

Humidity sensor (Energy Premium)	00004374

External control components

The DucoBox Energy Premium can be linked with the following external control components.

User controllers and room sensors	Please refer to dedicated chapter on control components
Switch sensor (for switch detection)	Please refer to dedicated chapter on control components

Options & accessories - DucoBox Energy Premium



Standing chair (Energy Premium / Comfort D400/Plus)	00004740

In situations where wall mounting of the DucoBox Energy Premium is not possible, this support frame makes floor mounting possible.
Use of a flat siphon is required.
Width x Height x Depth (incl. DucoBox Energy Premium): 740 x 1,110 x 570 mm



Mounting chair hanging (Energy Premium)	00004422

In situations where it is not possible to mount the DucoBox to a wall, this support frame makes floor-mounting possible.
Use of a standard siphon is possible.
Width x Height x Depth (incl. DucoBox Energy Premium): 740 x 1,290 x 640 mm



Filter set 2 x Coarse 65 % (Energy Premium)	00004417
Filter set Coarse 65 % / ePM1 70 % (Energy Premium)	00004416

The filter sets for the DucoBox Energy Comfort (Plus) include the following filters: For supply air (SUP): choice between Coarse 65 % (≈ G4) or ePM1 55 % filter (≈ F7). The ePM1 55% filter lets fewer fine particles through, which has a positive influence on air quality (e.g. for people who have allergies). For extract air (ETA): Coarse 65 % filter (≈ G4)



Siphon flat (Energy Premium & Comfort)	00004376

This flat diaphragm siphon with a height of 64 mm saves space and reduces the risk of air leaks. The siphon can be installed 'dry' and does not dry out on warm days.



Connectivity Board Modbus and WIFI	0004810 (Reference to be changed to 00004945 as of Q1 CY25).

The optional Duco Connectivity Board can be applied within the DucoBox Energy. This PCB enables interfacing towards home automation and building management systems via REST API (locally or via the cloud) or Modbus TCP (locally). Both are possible via Ethernet or Wi-Fi.



Coaxial cable set 8m (Energy Premium / Comfort / Comfort Plus)	00004418

The set comprises an 8 m long coaxial cable with pre-fitted connectors at both ends. This set can be used to relocate the DucoBox Energy Comfort / Premium antenna, if necessary, to a spot where the RF range is optimal.



Muff with rubber D160/D160 (M/M) [connection piece with joint]	00004724
Muff with rubber D180/D160 (M/M) [connection piece with joint]	00004725
Muff with rubber D180/D180 (M/M) [connection piece with joint]	00004726
Muff with rubber D200/D180 (M/M) [connection piece with joint]	00004727



Power supply 230VAC-24VDC/20W + housing	00004763

The Duco Power Supply 230VAC-24VDC/20W is the best solution to power Duco Wired components from a central 230V connection.
The component comes with a surface-mounted junction box as standard. The sum of the peak power of all connected DUCO components can be 20W at most when using one Power Supply.



Duco Wired power adapter 230VAC-24VDC/20W	00004762

The Duco Power Adapter 230VAC-24VDC/20W is the solution to power Duco Wired components from a 230V socket. The sum of the peak power of all connected DUCO components can be 20W at most when using one Power Supply.



Flow regulator 15-50 m^3/h Ø80	00004722
Flow regulator 15-50 m^3/h Ø125	00004836
Flow regulator 50-100 m^3/h Ø125	00004837

The adjustable flow regulator is an element that is placed in a duct to obtain a constant flow in a pressure range between 50 and 250 Pascal. It is used for both supply and extraction. Specifically for French markets.

DucoBox Energy Premium 325 - 400



DucoBox Energy Premium

DucoBox Energy Premium UK

With 2 or more sensors



With 1 sensor/ manual/ clock



Physical Properties		**325**	**400**
Width x Height x Depth (mm)	mm	740 x 957 x 585 mm	
Casing		Coated sheet steel	
Colours		White + green	
Connections		Interior diameter: Ø 160 mm - Exterior diameter: Ø 190 mm	
Condensate drain		Ø 32 mm (1 ¼")	
Heat exchanger		PET / Polystyrene	
Interior material		EPP / PP / ABS	
Weight		47 kg	
Power plug cable length		2 m (connected at the top side of the unit)	
Mounting		Wall mounting (standard) Floor mounting as an option using support frame	

Miscellaneous Properties			**325**	**400**
Energy class			With two sensors: A+ Other: A	
Specific energy consumption (SEC)	Cold	kWh/(m².a)	-82.9 (1)	-82.1 (1)
	Average		-43.6 (1)	-43 (1)
	Warm		-43 (1)	-18 (1)
Maximum flow rate at 100 Pa ESP		m³/h	327	405
Sound power level LWA		dBA	41	46
Filters			Filter supply air (175 x 500 x 25 mm) Standard: ISO 16890 Coarse 65 % (≈ G4) Optional: ISO 16890 ePM1 70% (≈ F7) Filter exhaust air (175 x 500 x 25 mm) Standard: ISO 16890 Coarse 65% (≈ G4)	
Summer by-pass			Full (100% modulating)	
Frost protection			Imbalance - Optional via proportional Heater	
Fans			EC fan with curved blades	
Automatic configuration			yes	
Constant flow control			Yes	
Controls			Integrated display Use via control switches and room sensors	
Sensors			Integrated: pressure, temperature, humidity (via optional box sensor), onboard switch contact External: CO_2 (via optional room sensor), humidity (via optional room sensor), external switch contact (voltage-free input) (optional)	
Communication			Standard: DUCO RF, DUCO Wired, Switch contact Can be expanded with Communication Print: Modbus, PWM-IN, PWM-OUT, Switch contact (3x), Ethernet, Micro SD-card slot	

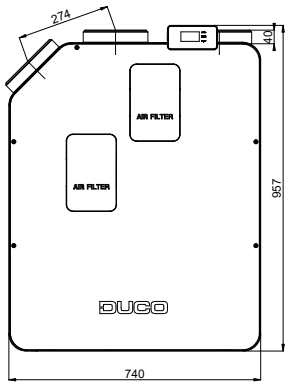
Electrical Characteristics	**325**	**400**
Maximum electrical capacity at 150 Pa	120 W (2 x 60 W)	183 W (2 x 91.5 W)
Maximum electrical capacity heater	1,000 W	
Power supply	230 V, 50 Hz - via 3-core cable with earth plug	
Plugs	0-10 V in/outputs	
Motor type	DC	
IP class	IP40	
Efficiency	At 228 m³/h: 87 % At 275 m³/h: 86 % At 332 m³/h: 85 %	At 301 m³/h: 85 % At 351 m³/h: 85 % At 401 m³/h: 84 %

(1) Manual control (no DCV)

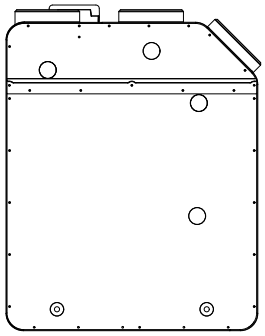
Dimensions DucoBox Energy Premium 325 - 400

Left model

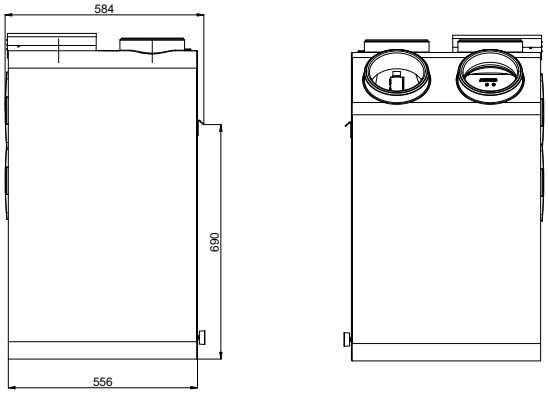
Front view



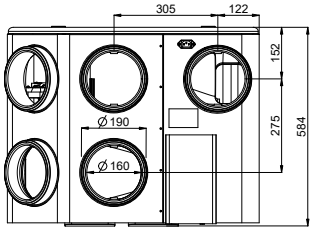
Rear view



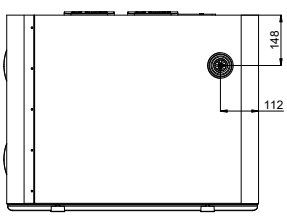
Side view



Top view

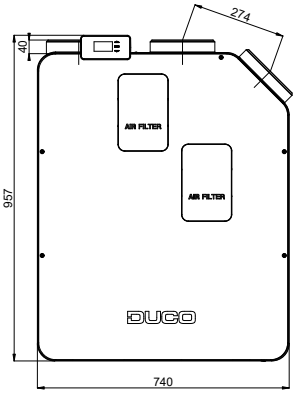


Bottom view

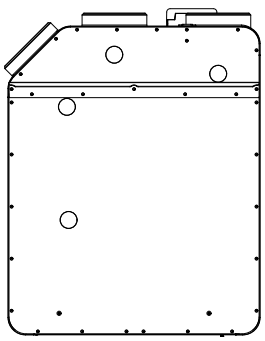


Right model

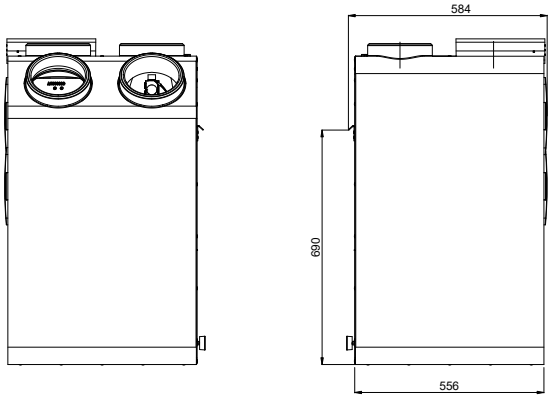
Front view



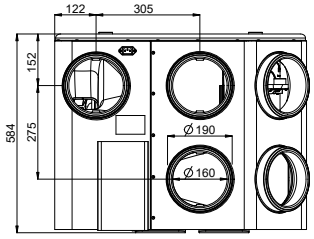
Rear view



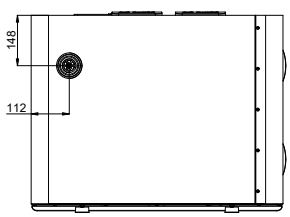
Side view



Top view



Bottom view



DucoBox Energy Sky (D275)



Flexible, compact, saves you installation time!

The Sky really has no limit with this compact ventilation box and its various mounting options. In addition, you save more than 50% on calibration time thanks to features such as automatic calibration, copy function and 100% interchangeability via display. Smart demand control also ensures that the unit operates very energy-efficiently. The device is extremely light (19 kg), making it easy to install by one person. Despite its light weight, the unit is still very quiet. With a maximum emission from casing of 54dB, it is among the quietest ceiling units on the market.

Patented principle

of double by-pass

L/R interchangeable

100% software-based

Smart 2-zone control

With external valves



Dynamic Airflow Filters

For maximum efficiency

Low power consumption

due to energy-efficient EC motors

Compact design, lightweight, silent!



Type of DucoBox	Max air flow at 150 Pa	Plug	Article reference
DucoBox Energy Sky D275	275 m³/h	F	00004939
DucoBox Energy Sky D275 UK	275 m³/h	G	00004940

Flexible solution:

Thanks to a compact dimension of 670 x 1180 x 295 mm, the unit requires a limited space to be installed, and can be either wall mounted or ceiling mounted. The unit can also support various configurations (standard or flipped), thus making it an ideal adaptable solution for all types of rooms and spaces. The 45 degree spigots offer great flexibility and space savings.



L/R switch - 100% software-based

This unit is very user-friendly because physical interventions are not necessary. The left/right switch is carried out 100% by software thanks to a patented principle of double by-pass.

Compact and lightweight:

This lightweight ceiling model (19 kg) perfectly complements our Energy Family (Centralized Heat Recovery Ventilation) and, thanks to its limited height of 295 mm, also fits seamlessly into suspended ceilings. The unit can also be wall-mounted.

Only **19 kg**



Smart copy function

Thanks to a "copy" function which is integrated on software level, the installer has the possibility to copy the settings and parametrisation of one DucoBox Energy Sky onto the next DucoBox Energy Sky. This is particularly useful in a serial construction with the same types of houses.



Automatic calibration

Relying on the principles of calibration at constant pressure, this method achieves a 50% saving on calibration time. DUCO saves you time and money.

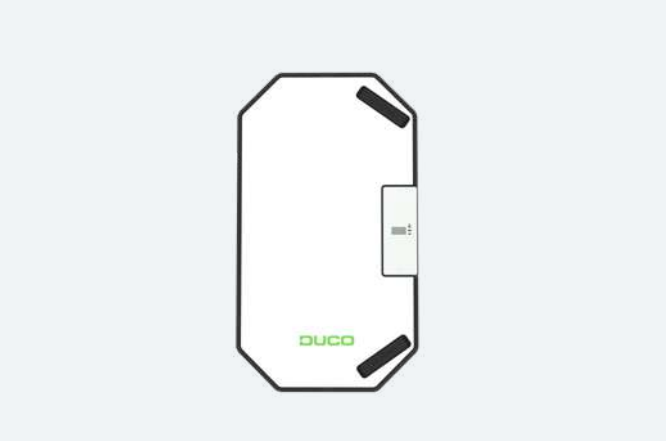
Intelligent demand control

The DucoBox Energy Sky automatically adjusts the ventilation to the actual need using the optional integrated 2-zone control. You thus automatically control the ventilation system based on CO_2 and humidity, allowing you to ventilate even more efficiently. This results to 40% energy savings and 30% less noise!





DucoBox Energy Sky D275



DucoBox Energy Sky

DucoBox Energy Sky UK

With 2 or more sensors



With 1 sensor/ manual/ clock



Physical Properties			**D275**
Width x Height x Depth		mm	670 x 1180 x 295
Casing			EPP + Polystyrene
Colours			White + black
Connections Inner Diameter: Ø 180mm			Internal diameter: Ø 160 mm
Condensate drain			Ø 32 mm (1 ¼")
Heat exchanger			Polystyrene
Material of inside section			EPP / PP / ABS
Weight			19 kg
Power cable length			2 m (from side of unit)
Mounting			Ceiling mounting Wall mounting (vertical)

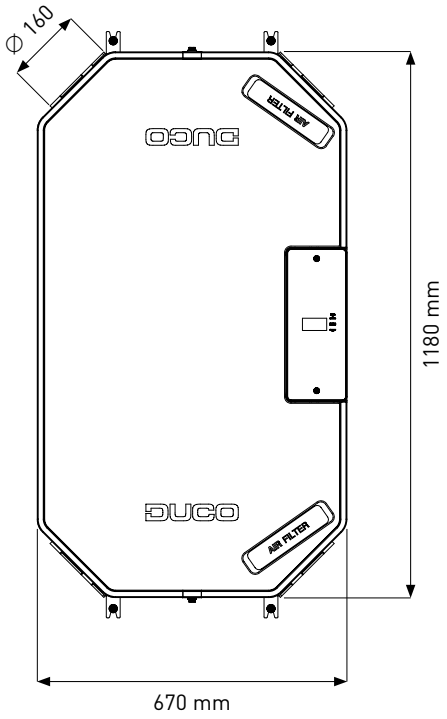
Miscellaneous Properties			**D275**
Energy class			With 2 sensors (control factor 0.65): A+ Other: A
Specific energy consumption (SEC)	Cold	kWh/(m².a)	-79,6
	Average		-41,2
	Warm		-16,6
Maximum flow rate at 100 Pa ESP		m³/h	275
Sound power level LWA		dBA	45
Filters			Filter supply air (175 x 500 x 25 mm) Standard: ISO 16890 Coarse 65 % (= G4) Optional: ISO 16890 ePM1 55 % (= F7) Filter exhaust air (240 x 170 x 27 mm) Standard: ISO 16890 Coarse 65 % (= G4)
Summer by-pass			Fully (100% modulating)
Frost protection			Imbalance or optional external heater
Fans			EC fan with backward curved blades
Automatic Calibration			Yes (constant pressure)
Constant flow regulation			Yes
Passive cooling			Automatic passive cooling control via 'NightBoost' function
Operation			Integrated display Use via remote controls and Room CO2 or Humidity Sensors Optional via smartphone/tablet (provided Duco Connectivity Board in device
Sensors			Integrated: pressure, temperature, onboard switch sensor External: CO_2 (via optional Sensor), Humidity (via optional Sensor or measurement in ETA line), external Switch Sensor (voltage free input) (optional)
Communication			Standard: Duco RF, Duco Wired, Switch Sensor Expandable with Duco Connectivity Board: Modbus TCP (local), REST API (local or via cloud) - both via Ethernet or Wi-Fi

Electrical Characteristics	**D275**
Maximum electrical power	130 W (2 x 65W)
Power Supply	230 V, 50 Hz
	Via 3-core power cable with earthed plug
Contacts	0-10 V in/output
Type of motor	DC
Energy conversion efficiency	At 274 m³/h: 85% At 231 m³/h: 86% At 180 m³/h: 87% At 140 m³/h: 88%

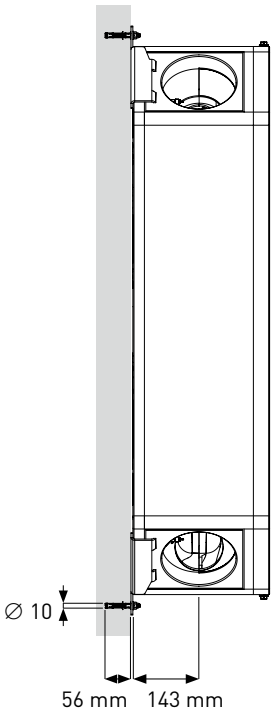
(1) Central demand control

Dimensions DucoBox Energy Sky D275

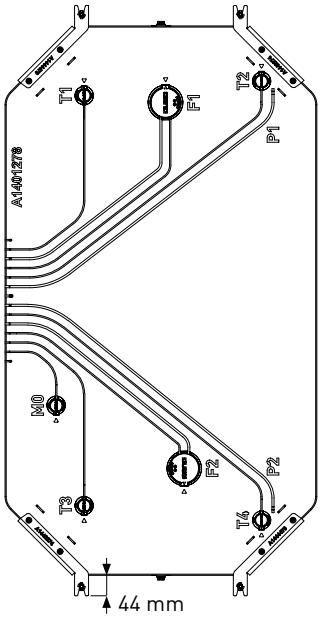
Front view



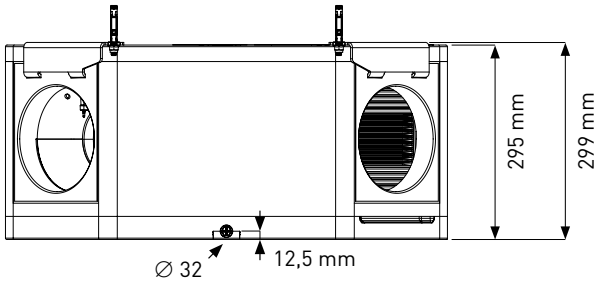
Side view



Rear view



Top view





Control components

User controls and room controls

User controllers and room sensors contain **one or both** of the following functions:

User controller: Using the buttons, the user sets the operation of the ventilation system to the desired level:
- **Automatic mode (recommended):** CO_2 and/or humidity measurements determine the operation of the ventilation system via intelligent algorithms. This guarantees optimum air quality in the most efficient way.
- **Manual settings:** The ventilation system ventilates at 10% (setting 1), 50% (setting 2) or 100% (setting 3) of the maximum ventilation capacity. (changeable according to user's preference).
- **Measuring air quality:** Sensors continuously measure the CO_2 or humidity level (as well as temperature) in the rooms where they are installed. The measurements determine the operation of the ventilation system when it is in automatic mode.

All controls and room sensors also function as RF repeaters to amplify the wireless signal (except battery-operated controls).

RF/ Wired models
Power supply: RF: 230 VAC | Wired: 24 VDC
Width x Height x Depth: 69 x 69 x 55 mm
Display: 4 RGB LEDs
Peak power: 1.8 W | Stand-by power: 1.2 W
Communication: RF and wired
Colour: Control: black or white | Supplied cover plate: white

Battery-powered model
Battery: CR2430 3V coin cell battery
Width x Height x Depth: 69 x 69 x 17 mm
Display: 1 bicolor LED
Communication: RF
Colour: Control: black or white | Supplied cover plate: white



User controllers + air quality measurement

These contain both a user controller and room sensors (CO_2 or humidity) for air quality measurement.

	Black	White
CO_2 Sensor RF / Wired (User control + Air quality measurement)	00004603	00004604
Humidity Sensor RF / Wired (User control + Air quality measurement)	00004605	00004606



User controller only

These contain only a user controller. Ideal in rooms where measurement is not required, or where measurement is done by other means (in the duct).

	Black	White
User controller RF / Battery	00004175	00004600
User controller RF / Wired	00004601	00004602



Air quality measurement only

Room sensors that are only equipped with a CO_2 sensor. Ideal for bedrooms where no user controller is necessary.

	Black	White
CO_2 Room sensor without control RF/Wired (Air quality measurement only)	00004636	00004637

Wired components:
Wired / 24 VDC components require a transformer from 230 VAC to 24 VDC. It is possible to work with a Duco Power supply as a central power supply, or with a Duco Power Adapter to power the component from the wall socket.
See "Options & accessories" for the ventilation unit.



Switch Sensor

The Switch Sensor can perform either or both of the following functions:

Switch detection: the ventilation system will perform a function when closing a (two-pole) dry contact. Suitable for toilet detection or overrule setting (only one function per switch sensor).

Repeater: the switch sensor is ideally suited as a repeater (amplifier) to strengthen the signal in the event of RF communication problems. In that case the switch sensor must be positioned in such a way that the distance to be bridged and/or interference by obstacles is reduced.

A switch sensor is easy to conceal thanks to its small size.



Switch sensor (Energy Premium / Comfort / Comfort Plus)	00004174
Dimensions (Width x Height x Depth)	41 x 37 x 20 mm
Weight	21 g
Colour	White
Connection diameter	125 mm
Peak power	0.5 W
Standby power	0.4 W
Power supply	230 VAC
Communication	RF

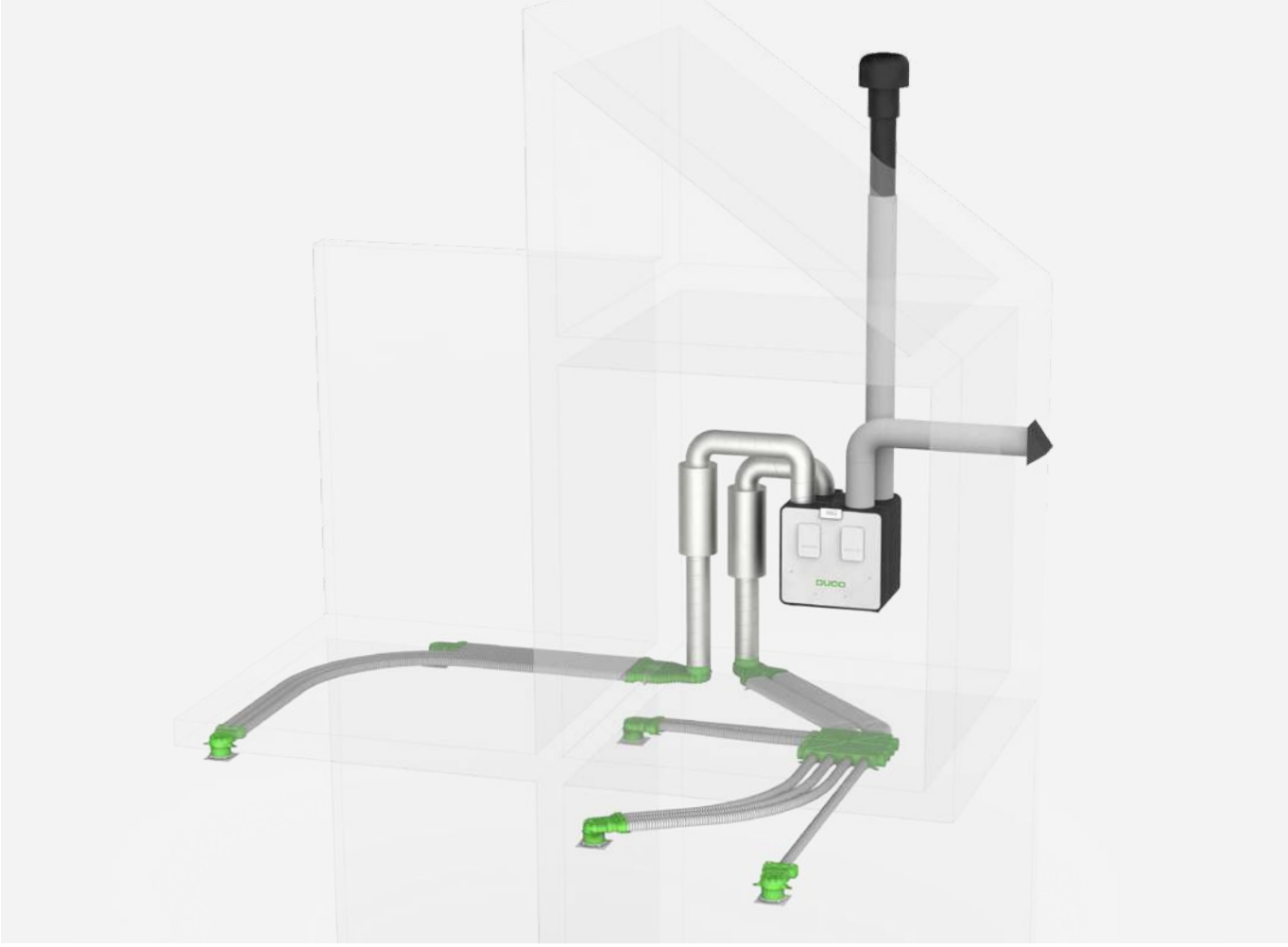
Note: An external switch sensor is not required if a switch is connected to the onboard dry contact on the circuit board of the 'master' unit (DucoBox or IQ unit).
Use a double-pole switch or relay and a 2 x 0.8 mm^2 cable for this.

Air ducts

Total ventilation package

Are you looking for a total ventilation package? Then you are best going to just one address. With DucoFlex, Daikin provides a complete air duct system for CHRV. When you use DucoFlex, you will also benefit from the 'Zero Noise' guarantee package. This consists of the highest airtightness class D, the lowest air resistance and maximum acoustic comfort with the quietest ventilation system in Europe! The result is an energy-efficient and quiet ventilation system.

Did you know that this complete air duct system is very easy to install? This is thanks to the handy 'Click & Go' principle and minimum number of fittings. Daikin, a one-stop-shop with 100 % service provision.





DucoFlex
Complete air ducting system for CHRV

Click & Go' system
Flexible ducting with convenient click system without screws

'Zero noise' guarantee
Meets the most stringent requirements

Airtight
Class D airtightness

100% service
Complete ventilation package with support

Standard components



DucoFlex round semi-rigid ducting D63 (50 m)	00004552
DucoFlex round semi-rigid ducting D75 (50 m)	00004674
DucoFlex round semi-rigid ducting D90 (50 m)	00004692

DucoFlex antistatic and antibacterial air ducting, being round and flexible, is easy to fit. When fitted correctly, its low internal resistance will contribute to an energy-efficient ventilation system.



DucoFlex rubber O-ring D63 (10 pieces)	00004553
DucoFlex rubber O-ring D75 (10 pieces)	00004675
DucoFlex rubber O-ring D90 (10 pieces)	00004676

The DucoFlex O-ring provides a quick and perfectly airtight joint between air ducts and fittings.



DucoFlex Coupling D63	00004554
DucoFlex Coupling D75	00004677
DucoFlex Coupling D90	00004678

The coupling enables an airtight connection to be made between DucoFlex ducts. A built-in stop prevents the ducts from being inserted too far.



DucoFlex Elbow 90° D75	00004679
DucoFlex Elbow 90° D90	00004680

The bend in the standard configuration enables a 90° bend to be made in flexible ducting.



DucoFlex 90° Bend splitter vent connector long - oval/D125	00004681

The DucoFlex 90° Bend splitter vent connector long can be utilised multifunctionally. This makes it possible to connect a DucoFlex connector 3x63, 2x75, 3x75 or 2x90 to it.



DucoFlex 90° Bend splitter vent connector short - oval/D125	00004682

The DucoFlex 90° Bend splitter vent connector short can be used multifunctionally. This makes it possible to connect a DucoFlex connector 3x63, 2x75, 3x75 or 2x90 to it.



DucoFlex Manifold box (floor and ceiling) 4 x oval air ducts (F) D160	00004687

The ceiling and floor manifold box can be utilised multifunctionally. It is a box with 4 oval connexions and a D160 riser duct. Combined with connectors D63, D75 or D90, it becomes a floor/ceiling plenum.



DucoFlex Manifold box (floor and ceiling) 3 x oval air ducts (F) + 1 x oval air duct (M)	00004701

The ceiling and floor manifold box can be utilised multifunctionally. It is a manifold box with 3 oval connexions (F) and 1 oval connection (M). This offers the possibility to connect it to the ceiling and floor manifold box 4x oval (F) and so expand to 6x oval connections (F).



DucoFlex Manifold box (floor) 12x63 D180	00004563

The D180 floor manifold box is the adapter between a maximum of 12 DucoFlex D63 ducts and a direct connection to a D180 riser duct. The smart 'Click & Go' system provides a quick and perfectly airtight joint between DucoFlex ducts.



DucoFlex Manifold box (floor) 12x63 + 2 x oval air ducts	00004565

The 2x oval floor manifold box is the adapter between up to a maximum of 12 D63 ducts and 2x DucoFlex oval. This enables the manifold box to be positioned more accessibly. The smart 'Click & Go' system provides a quick and perfectly airtight joint between DucoFlex ducts.



DucoFlex Manifold box (ceiling) 12x63 D180	00004564

The D180 ceiling manifold box is the adapter between up to a maximum of 12 DucoFlex D63 ducts and a direct connection to a D180 riser duct. The smart 'Click & Go' system provides a quick and perfectly airtight joint between DucoFlex ducts.



DucoFlex connector riser round D160 - 2 oval	00004566

The riser duct connector can be utilised multifunctionally. It is an adapter between 2x DucoFlex oval and a D160 riser duct. Combined with connectors D63, D75 or D90, it becomes a floor/ceiling plenum.



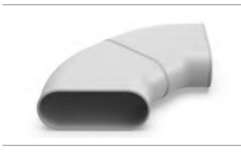
DucoFlex Adapter 3x63 oval	00004684
DucoFlex Adapter 2x75 oval	00004685
DucoFlex Adapter 3x75 oval	00004841
DucoFlex Adapter 2x90 oval	00004686

The adapter allows connecting 3x DucoFlex D63/D75 or 2x DucoFlex D75/D90 to a DucoFlex oval connection. The smart "Click & Go" system provides a quick and perfectly airtight joint between DucoFlex ducts.



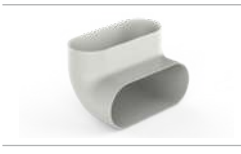
DucoFlex oval air duct B163xH68xL1150	00004567

Rigid DucoFlex oval ducting combined with the D160 - 2x oval connector enables a manifold box to be provided in a favourable location.



DucoFlex horizontal elbow 90°/45° rigid oval duct	00004609

The horizontal bend in the standard configuration enables a 90° bend to be made in rigid oval ducting. It is possible to cut this component down to a 45° bend.



DucoFlex vertical elbow 90° rigid oval duct	00004699

The vertical bend in the standard configuration enables a vertical 90° bend to be made in rigid oval ducting.



DucoFlex oval duct coupling	00004568

The oval coupling provides a quick and perfectly airtight connection between DucoFlex oval ducting and connections.



DucoFlex horizontal connector oval - D125	00004638

The D125 oval connector provides a horizontal connection between D125 round duct and DucoFlex oval duct or an optional connector for DucoFlex.



DucoFlex horizontal connector D160 2x oval	00004700

The D160 2x oval connector provides a horizontal connection between D160 round duct and 2x DucoFlex oval duct or an optional connector for DucoFlex.



DucoFlex Oval Cap	00004713

The DucoFlex End cap oval makes it possible to close an oval connection of a plenum



Reducer 160 / 125	00004543



Reducer 125/80	00004542

Tools



DucoFlex Duct cutter D63	00004599
DucoFlex Duct cutter D75	00004688
DucoFlex Duct cutter D90	00004689

The DucoFlex duct cutter ensures that ducting can be cut easily as well as nice and straight. This is recommended for airtight system assembly.

Insulated ducting



NEW

DucoFlex insulated circular duct with integrated coupler D160 L1000	00004569
DucoFlex insulated circular duct with integrated coupler D180 L1000	0004570 (Reference changed to 00004909 as of Q1 CY25)
DucoFlex insulated circular duct with integrated coupler D200 L1000	00004905

The DucoFlex insulated circular duct is a smooth and insulated ventilation duct made of EPS. The good insulating properties of this product prevent a thermal bridge and therefore condensation when polluted air is extracted or outside air is pulled in. Energy losses are also avoided. In addition to the good thermal insulation value, the material used also dampens noise and is very easy to handle. A connection piece is supplied as standard which connects the various EPS components quickly and airtight.



NEW

DucoFlex insulated 90° bend with integrated coupler D160	00004571
DucoFlex insulated 90° bend with integrated coupler D180	0004572 (Reference changed to 00004910 as of Q1 CY25)
DucoFlex insulated 90° bend with integrated coupler D200	00004906

The DucoFlex insulated 90° bend is a smooth and insulated elbow for ventilation ducts made of EPS. The good insulating properties of this product prevent a thermal bridge and therefore condensation when polluted air is extracted or outside air is pulled in. Energy losses are also avoided. In addition to the good thermal insulation value, the material used also dampens noise and is very easy to handle. A connection piece is supplied as standard which connects the various EPS components quickly and airtight.



NEW

DucoFlex insulated 45° bend with integrated coupler D160	00004573
DucoFlex insulated 45° bend with integrated coupler D180	0004574 (Reference changed to 00004911 as of Q1 CY25)
DucoFlex insulated 45° bend with integrated coupler D200	00004907

The DucoFlex insulated 45° bend is a smooth and insulated elbow for ventilation ducts made of EPS. The good insulating properties of this product prevent a thermal bridge and therefore condensation when polluted air is extracted or outside air is pulled in. Energy losses are also avoided. In addition to the good thermal insulation value, the material used also dampens noise and is very easy to handle. A connection piece is supplied as standard which connects the various EPS components quickly and airtight.



NEW

DucoFlex insulated coupler D160	00004575
DucoFlex insulated coupler D180	0004576 (Reference changed to 00004912 as of Q1 CY25)
DucoFlex insulated coupler D200	00004908

The DucoFlex insulated coupler is a practical connection piece that connects the various EPS components in a quick and airtight manner.



Silencers



DucoFlex Silencer flexible D125 L1000	00004586

The DucoFlex Silencer D125 is a (semi-) flexible silencer composed of a flexible antibacterial inner duct (non-woven) and a polyester-laminated aluminium outer jacket. The space between the inner and outer jacket is filled with 25 mm sound absorbing material. Both ends are taped to allow the silencer to be easily connected to the ventilation unit or the rigid ventilation ducts of diameter D125.



DucoFlex Silencer flexible D125 (M/F) L1000	00004630
DucoFlex Silencer flexible D200 (M/F) L1000	00004918

The DucoFlex Silencer (M/F) is a (semi-)flexible silencer consisting of a flexible antibacterial inner channel (non-woven) and an aluminium outer jacket laminated in polyester. The space between the inner and outer jacket is filled with 25 mm sound absorbing material. The silencer comes standard with stainless steel caps on both ends of which 1 M and 1 F connection. This allows quick, easy and airtight connection of the damper to the ventilation unit or rigid ventilation ducts of diameter D125 or D200.



DucoFlex Silencer flexible D160 (M/M) L1000	00004631
DucoFlex Silencer flexible D180 (M/M) L1000	00004632

The DucoFlex Silencer (M/M) is a (semi-) flexible silencer composed of a flexible antibacterial inner duct (non-woven) and a polyester-laminated aluminium outer jacket. The space between the inner and outer jacket is filled with 25 mm sound absorbing material. The silencer is provided with stainless steel caps on both ends (2 x M connection). This allows the silencer to be connected quickly, easily and airtight to the ventilation unit or the rigid ventilation ducts of diameter D160 or D180.



DucoFlex Silencer semi rigid D160 (M/M) L1000	00004587
DucoFlex Silencer semi rigid D180 (M/M) L1000	00004588
DucoFlex Silencer semi rigid D200 (M/M) L1000	00004919

The DucoFlex Silencer semi-rigid (M/M) is a semi-rigid (bendable) silencer composed of a profiled and perforated aluminium inner duct and a two-layered profiled outer jacket. The space between the inner and outer jacket is filled with 50 mm sound absorbing material. The silencer is provided with aluminium caps on both ends (2 x M connection). This allows quick, easy and airtight connection of the damper to the ventilation unit or rigid ventilation ducts of diameter D160, D180 or D200.

Connection pieces



Muff with rubber D160/D160 (M/M) [connection piece with joint]	00004724
Muff with rubber D180/D160 (M/M) [connection piece with joint]	00004725
Muff with rubber D180/D180 (M/M) [connection piece with joint]	00004726
Muff with rubber D200/D180 (M/M) [connection piece with joint]	00004727



Vents

Which vents to choose?

The vents are installed in ducts for the extraction of stale air or supply of fresh air. DUCO does not lose sight of the aesthetic or the functional aspect here either.

	DucoVent Basic	DucoVent Comfort	DucoVent Design	DucoVent Premium
				
Type of DucoBox	DucoBox Energy Comfort and Comfort Plus DucoBox Energy Premium			
Type of vent	Supply Extraction	Supply Extraction	Supply* Extraction * With the exception of 'Standard' vents	Supply Extraction
Air flow	Up to 75 m^3/h	Extraction: up to 75 m^3/h Supply: up to 75 m^3/h	Extraction: up to 75 m^3/h Supply: up to 50 m^3/h	Up to 50 m^3/h
Design	★	★★★	★★★★	★★★★★
Shape	Round	Round	Round Square Standard and XL Rounded Square Standard and XL	Round (trimless)
Material	Plastic	Plastic (ASA)	Aluminium	Plastic
Colour	White	White	All RAL	White (can be painted)
Sound absorption	★	★★★★	★★★★★	★★★★
Ease of maintenance	★★	★★★	★★★★★	★★★
Fitting	To be clamped in DucoFlex	Sealing joint in DucoFlex	To be clamped in DucoFlex	Sealing joint in DucoFlex + plastering
Setting flow rate	Fine adjustment via rotary adjuster	11 adjustable positions	Preregulation with flow rings + Fine adjustment via rotary adjuster	36 adjustable positions

Standard vents - All systems



DucoVent Basic (Supply & Exhaust)		00004178
Maximum flow rate	75 m^3/h	
Colour	White	
Connection diameter	125 mm	
Suitable for	Extraction + Supply	
The DucoVent Basic is the standard vent that is manufactured from plastic and is suitable for ceiling and wall mounting. Fine adjustment is by means of a cone that screws in and out. Suitable for both extraction and supply.		



DucoVent Comfort		00004769
Maximum flow rate	75 m^3/h	
Colour	White	
Connection diameter	125 mm	
Suitable for	Extraction + Supply	
A vent where both aesthetics and ease of adjustment are central. This is what DucoVent Comfort stands for! Thanks to a clever principle of adjustment positions, the vent can be adjusted both in advance and during installation. The ideal addition to all Duco ventilation systems in serial construction where the copy function saves a lot of time!		

DucoVent Premium		00004903
Maximum flow rate	50 m^3/h	
Colour	White (can be painted over)	
Connection diameter	125 mm	
Suitable for	Extraction + Supply	
The DucoVent Premium is by far the finest vent in the market that can be used for both supply and extraction. A 'trimless' integration in the plasterwork makes the vent almost invisible. The well-thought-out design ensures a diffuse air supply via the Coanda effect and therefore guarantees optimal comfort. Aesthetics and quality in one product! A perfect combination with DUCO's high-quality ventilation solutions!		

Simple vents for French market



DucoVent Auréa (80) + manchon (80)	00004619
DucoVent Auréa (125) + manchon (125)	00004620



Bouche Alizé Auto 15 m^3/h (80)	00004834
Bouche Alizé Auto 30 m^3/h (80)	00004835



Sound absorbing design vents - All systems

The DucoVent Design is an aesthetic vent, available with five different cover plates: square (standard and XL), rounded square (standard and XL) or fully circular. The sleek design, combined with simple installation thanks to its magnetic fastening, ensures virtually invisible integration into any room where air extraction or supply is provided. The acoustic rings provide optimal sound absorption and easy calibration. Suitable for ceiling and wall mounting. Easy to clean without disturbing the settings.

The DucoVent Design Round and all XL models are also suitable for use as supply vents. Two inserts are included which can be used to reduce the exhaust angle, when positioning the vent close to a wall or in a corner for example.



DucoVent Design square standard AK (exhaust)		00004179
Maximum flow rate	Extraction: 75 m^3/h	Supply: 50 m^3/h
Noise level	<15 dB(A) at 50 m^3/h	
Colour	White (RAL 9010 structure (AE03059901020))	
Duct diameter	125 mm	
Dimensions (Width x Height x Depth)	180 x 180 x 52 mm	
Suitable for	Extraction	

DucoVent Design square XL AK (supply and exhaust)		0004226
Maximum flow rate	Extraction: 75 m^3/h	Supply: 50 m^3/h
Noise level	<15 dB(A) at 50 m^3/h	
Colour	White (RAL 9010 structure (AE03059901020))	
Duct diameter	125 mm	
Dimensions (Width x Height x Depth)	215 x 215 x 52 mm	
Suitable for	Extraction + Supply	



DucoVent Design round AK (supply and exhaust)		0004210
Maximum flow rate	Extraction: 75 m^3/h	Supply: 50 m^3/h
Noise level	<15 dB(A) at 50 m^3/h	
Colour	White (RAL 9010 structure (AE03059901020))	
Duct diameter	125 mm	
Dimensions (Width x Height x Depth)	215 x 215 x 52 mm	
Suitable for	Extraction + Supply	



DucoVent Design rounded square standard AK (exhaust)		0004211
Maximum flow rate	Extraction: 75 m^3/h	Supply: 50 m^3/h
Noise level	<15 dB(A) at 50 m^3/h	
Colour	White (RAL 9010 structure (AE03059901020))	
Duct diameter	125 mm	
Dimensions (Width x Height x Depth)	180 x 180 x 52 mm	
Suitable for	Extraction	

DucoVent Design rounded square XL AK (supply and exhaust)		0004227
Maximum flow rate	Extraction: 75 m^3/h	Supply: 50 m^3/h
Noise level	<15 dB(A) at 50 m^3/h	
Colour	White (RAL 9010 structure (AE03059901020))	
Duct diameter	125 mm	
Dimensions (Width x Height x Depth)	215 x 215 x 52 mm	
Suitable for	Extraction + Supply	

Air flow

DUCO supplies a wide range of grilles for extraction and supply for every conceivable use.



Feed-through via facade outside DucoFlex Wall feed-through

The DucoFlex Wall feed-through can be used as a supply and extraction point with very low pressure losses. The fitted flange with a diameter of 160 or 180 provides a quick and air-tight connection to the DucoFlex ISO D160 or D180 pipes without any need for connecting pieces. The pre-fitted condensation strip prevents possible undesired deposits of dripping condensation water. The sleek design and black or white colour enable the unit to be used discretely in any type of façade.

	Black	White
DucoFlex Wall feed-through D160	00004584	00004627
DucoFlex Wall feed-through D180	00004585	00004628
NEW **DucoFlex Wall feed-through D200**	00004914	00004913



Feed-through via door DoorVent

The DoorVent is a transfer grille that can be installed discretely in internal doors. Unlike gaps under the door, the DoorVent thereby avoids draughts and attenuates intrusive noise.

Airflow	70 cm²	
Dimensions (Width x Height)	Overall: 436 x 58 mm	Recessed fitting: 417 x 48 mm
Door thickness	37-47 mm	

DoorVent RAL 9001	10300800
DoorVent RAL 9010	10300700



Feed-through via flat & sloping roof DucoFlex Roof feed-through

The DucoFlex Roof feed-through Compact can be used as a supply and extraction point. The dark grey or terracotta colour and the design allow this unit to be used very discretely in a sloping roof. The pre-fitted lead sheet ensures quick and water-tight installation. The smart design ensures that this compact roof feed-through is hardly sensitive to atmospheric turbulences. The connection piece fits seamlessly into DucoFlex ISO ducting D160 or D200.

DucoFlex Roof feed-through Compact D160 - Slate	00004582
DucoFlex Roof feed-through Compact D160 - Terracotta	00004580



Feed-through via flat & sloping roof DucoFlex Roof feed-through

The DucoFlex Universal Roof feed-through can be used as a supply and extraction point on both flat and sloping roofs. This unit can also be used at higher air flow rates thanks to its low air-resistance. The pre-assembled connection piece is 635 mm, allowing the roof feed-through to be used in any possible situation. The insulated end piece fits for DucoFlex ISO D160 ducts, D180 ducts as well as D200 ducts.

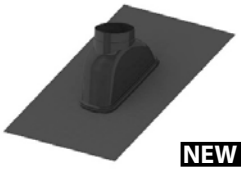
NEW **DucoFlex Universal Roof feed-through D160/180 (1.0m)**	00004578
DucoFlex Universal Roof feed-through D200 (1.0m)	00004915



Feed-through via flat & sloping roof DucoFlex Roof feed-through

The DucoFlex Roof feed-through plate flat roof can be combined with the Universal Roof feed-through D160/180 or D200. The base plate has a diameter of 420 mm. It is made completely of aluminium, making it suitable for all standard finishes of roof feed-throughs on flat roofs.

DucoFlex Roof feed-through plate flat roof D204	00004581
NEW **DucoFlex Roof feed-through plate flat roof D210**	00004916



Feed-through via flat & sloping roof DucoFlex Roof feed-through

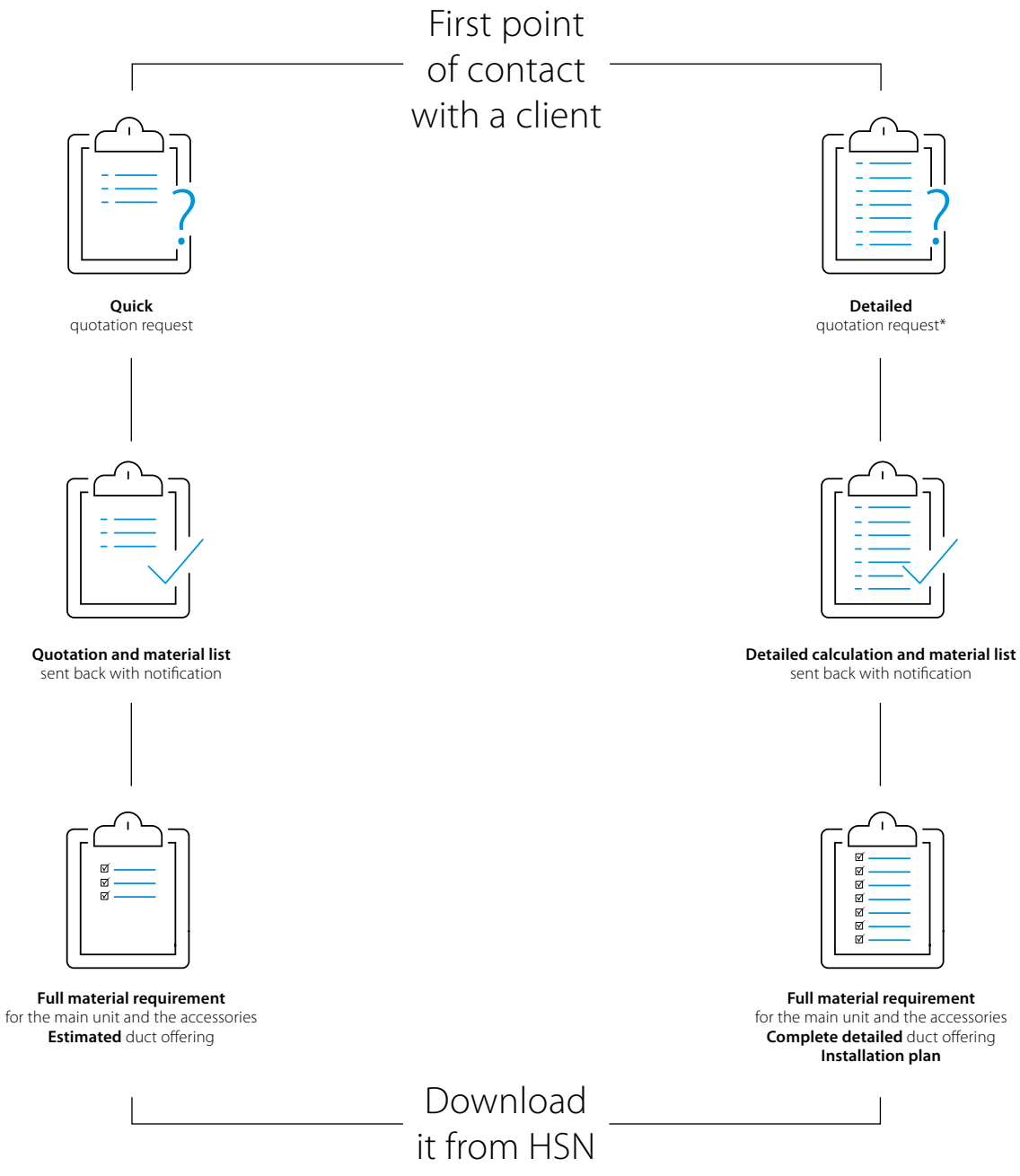
The DucoFlex Universal Roof feed-through tile can be combined with the Universal Roof feed-through D160/180 or D200. The unit is a 2-tile solution which is suitable for sloping roofs with a pitch between 25° and 50°. The pre-mounted plastic flashing flange ensures quick and water-tight installation.

DucoFlex Universal Roof feed-through tile D205	00004579
NEW **DucoFlex Universal Roof feed-through tile D210**	00004917

Experience the ultimate customer service with the Heating Solutions Navigator

As part of the Stand by Me service programme, the **Heating Solutions Navigator (HSN)** provides the best fit solution for your customer's home.

As installer, you will be able to request a **quick quotation** (list of materials) for DUCO units, or get a **detailed calculation** (including drawings and installation plans) based on your customer's home plan that you will provide.



*On condition that commitment to purchase is made.

Compatibility table

	Material reference	Material description	Premium	Premium UK	Comfort Plus		
			325/D400	325/D400	D550	D450	D350
	00004951	DUCO Connectivity Board 2.0 (Comfort (Plus), Premium, Sky)	•	•	•	•	•
	00004376	Siphon flat (Energy Premium & Comfort)	•	•	•	•	•
	00004417	Filter set 2 x Coarse 65 % (Energy Premium)	•	•			
	00004416	Filter set Coarse 65 % /ePM1 70 % (Energy Premium)	•	•			
NEW	0000461	Filterset Coarse 65% /ePM1 55% (Energy Comfort D325)					
	00004547	Filter set 2 x Coarse 65 % (Energy Comfort D325)					
NEW	00004741	Filterset 2 x Coarse 65 % (Energy Comfort D400 & Plus D350/D450/D550)			•	•	•
NEW	00004742	Filterset Coarse 65% /ePM1 55% (Energy Comfort D400 & Plus D350/D450/D550)			•	•	•
NEW	0004950	Filterset 2 x Coarse 65 % (Energy Sky D275)					
NEW	0004951	Filterset Coarse 65% /ePM1 55% (Energy Sky D275)					
	00004422	Mounting chair hanging (Energy Premium)	•	•			
	00004546	Mounting chair standing (Energy Comfort D325)					
NEW	00004740	Standing chair (Energy Premium / Comfort D400/Plus)	•	•	•	•	•
	00004418	Coaxial cable set 8m (Energy Premium / Comfort / Comfort Plus)	•	•	•	•	•
	00004807	Pre-Heater DucoBox Energy Comfort (Plus) - 1,425W (available from 1/4/2023)			•	•	•
	00004825	Pre-Heater DucoBox Energy Comfort (Plus) UK - 1,425W (available from 1/4/2023)					
NEW	00004761	Multizone Valve DucoBox Energy Comfort (Plus) (Sensorless) Ø125			•	•	•
NEW	00004760	Multizone Valve DucoBox Energy Comfort (Plus) (Sensorless) Ø160			•	•	•
NEW	00004762	Duco Wired power adapter 230VAC-24VDC/20W	•		•	•	•
NEW	00004763	Power supply 230VAC-24VDC/20W + housing	•	•	•	•	
	00004810	Connectivity Board Modbus and WIFI (Reference to be changed to 00004945 as of Q1 CY25)	•	•	•	•	•
	Sensors for DucoBox Energy series						
	00004174	Switch sensor (Energy Premium / Comfort / Comfort Plus)	•	•	•	•	•
	00004374	Humidity Sensor (Energy Premium)	•	•			
NEW	00004723	Humidity Sensor (Energy Comfort & Energy Comfort Plus)			•	•	•
	00004603	CO_2 Sensor RF / Wired (User control + Air quality measurement - Black	•	•	•	•	•
	00004604	CO_2 Sensor RF / Wired (User control + Air quality measurement - White	•	•	•	•	•
	00004605	Humidity Sensor RF / Wired (User control + Air quality measurement - Black)	•	•	•	•	•
	00004606	Humidity Sensor RF / Wired (User control + air quality measurement - White)	•	•	•	•	•
	00004175	User controller RF / Battery (Black)	•	•	•	•	•
	00004600	User controller RF / Battery (White)	•	•	•	•	•
	00004601	User controller RF / Wired (Black)	•	•	•	•	•
	00004602	User controller RF / Wired (White)	•	•	•	•	•
	00004636	CO_2 Room sensor without control RF/Wired (Air quality measurement only - Black)	•	•	•	•	•
	00004637	CO_2Room sensor without control RF/Wired (Air quality measurement only - White)	•	•	•	•	•
	Various						
	00004809	Duco Installation Kit (Comfort (Plus) / Premium)	•	•	•	•	•
NEW	00004946	DUCO Installation Kit (Comfort (Plus), Premium, Sky)	•	•	•	•	•
NEW	00005011	Pre-heater Energy Comfort (Plus) / Sky - 1150 W	•	•	•	•	•

Comfort Plus UK			Comfort		Comfort UK		Comfort FR	DUCO Sky	Duco Sky UK
D550	D450	D350	400/D400	325/D325	400/D400	325/D325	D325	D275	D275
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A million homes. One heat pump.

Your next heating system will be a heat pump

Heat pumps are ready to take on the challenge of home decarbonization and Daikin is ready to be the most suitable partner in this challenge.

Home decarbonisation is the sustainability challenge of today. It's the newest addition to the global paradigm shift towards a more sustainable economy. In the automotive industry, agriculture and even in air travel, efforts have already been made to reduce or eliminate carbon emissions from energy sources.
Next on the list: homes.

The European Union pledged to "play a central role" in achieving net-zero greenhouse gas emissions by 2050.

Daikin Altherma is the absolute most sold hydronic heat pump brand in Europe, since 2006*. Our hydronic heat pumps are 100% manufactured in Europe.

*source: BRG Building Solutions – June 2024 data/report

In order to achieve their goals, they are betting on heat pumps

And at Daikin, we are convinced that they're right. Heat pumps are more than ready to take on the challenge of home decarbonisation. They are not a technology of the future, but an established solution, ready to provide comfort.

Did you know?
In several European countries, heat pumps are already installed in more than 50% of new buildings. In renovations, heat pumps are increasingly being considered as a replacement for boilers, especially for high-temperature models with a similar leaving water temperature of 70 °C.

Heating

Daikin's vision on heating 70

Introduction 72

- 4 steps to decarbonising residential heat 72

Stand By Me 74

Stand By Me, Certified Partner 78

Six reasons to choose a heat pump NEW 80

Individual solutions 82

Heat pumps 85

- Indoor units 86
- Daikin Altherma 4 H NEW 92
- Daikin Altherma 3 H MT/HT 102
  - Daikin Altherma 3 H MT/HT F 109
  - Daikin Altherma 3 H MT/HT ECH$_2$O 116
  - Daikin Altherma 3 H MT/HT W 125
- Daikin Altherma 3 R MT 132
  - Daikin Altherma 3 R MT F 139
  - Daikin Altherma 3 R MT ECH$_2$O 146
  - Daikin Altherma 3 R MT W 155
- Daikin Altherma 3 R (ERLA-D series, 11-14-16 kW) 160
  - Daikin Altherma 3 R F 164
  - Daikin Altherma 3 R ECH$_2$O 169
  - Daikin Altherma 3 R W 174
- Daikin Altherma 3 R (ERGA-E series, 4-6-8 kW) 180
  - Daikin Altherma 3 R F 182
  - Daikin Altherma 3 R ECH$_2$O 187
  - Daikin Altherma 3 R W 192
- Daikin Altherma 3 M 198
  - Daikin Altherma 3 M (4-6-8 kW) 198
  - Daikin Altherma 3 M (9-11-14-16 kW) 204
- Daikin Altherma M HW 214
- Daikin Altherma Ground source heat pump 220
  - Daikin Altherma 3 GEO 220
- Daikin Altherma Hybrid heat pump 228
  - Daikin Altherma R Hybrid 231
  - Daikin Altherma R Hybrid + multi 232
  - Daikin Altherma H Hybrid 236

Boilers 243

- Condensing boilers 244
- Gas condensing boilers 246
  - Daikin Altherma 3 C Gas (D2C/TND*) 246
  - Daikin Altherma 3 C Gas (D2CNL) 252
  - Daikin Altherma C Gas W 254
- Flue-gas evacuation system 256

Collective solutions 260

Decentralised solutions 264

Centralised solutions 265

Water loop 266

- Daikin Altherma 3 WS 266

Peripherals 276

Tanks 279

- Thermal stores and tanks 280

Controllers 285

- Wired remote controller 287
- Individual room controllers 291
- Onecta App 294

Heating & cooling emitters 297

- Daikin Altherma UFH 298
- Daikin Altherma HPC floor standing 304
- Daikin Altherma HPC wall mounted 306
- Daikin Altherma HPC concealed 307

Solar heating systems 313

- Solar panels for pressurised use and Drain-back system 320
- Solar panel - pressurised system 322
- Solar panels - drain-back system 324
- Solar collector 327
- Pump station 327

4 Steps to decarbonising residential heat

One of the biggest challenges we face to ensure a healthy and sustainable environment and contribute to carbon neutrality is to maximize usage of renewable energy, specifically when heating our homes. The majority of residential housing is still heated with outdated systems, often using polluting fossil fuels such as coal and oil.

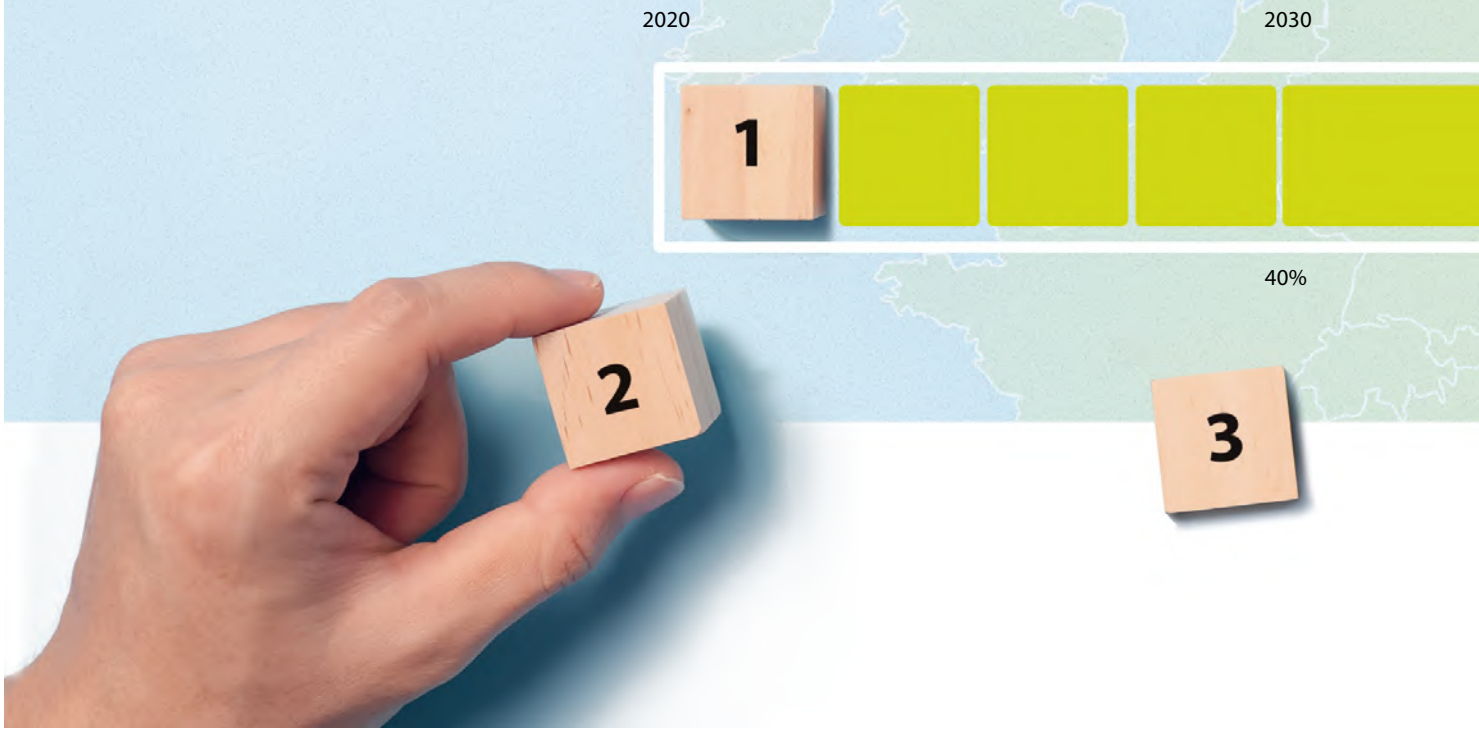
The challenge involved in tackling this is made all the more clear by The European Green Deal, which is a set of policy initiatives by the European Commission with the key aim of making Europe climate neutral in 2050 using green technology.

1 Strengthened new build rules

All European member states have already put measures in place to ensure that new build houses and apartments have a better carbon performance by making an improved building envelope and the use of renewable energy mandatory. As a result, Daikin estimates that heat pumps already have up to 50% market share in new (single family) houses.
A considerable additional benefit of hydronic heat pumps is the ability to use it to cool as well heat, which is increasingly becoming a consumer requirement. This is partly due to the climate change effect, but also because of the higher insulation level built houses.

2 Increase replacement rate

Today's replacement rate is, on average, 1% of the total number of heating systems installed per year and meeting the minimum target would require that replacement ratio to double within the coming 10 years.
Substituting heating devices with more efficient ones will constitute a move towards reducing CO_2 emission. The challenge however is to motivate EU citizens to choose renewable heating more often, thereby convincing those in the replacement market that heat pumps are an efficient, cost-effective and established solution.



Heat pumps start to play a crucial role in decarbonizing Europe, and in certain areas there has already been an impressive uptake. For example, heat pumps are the default heating system in Sweden and enjoy 50% of the market share in new builds in some European countries.

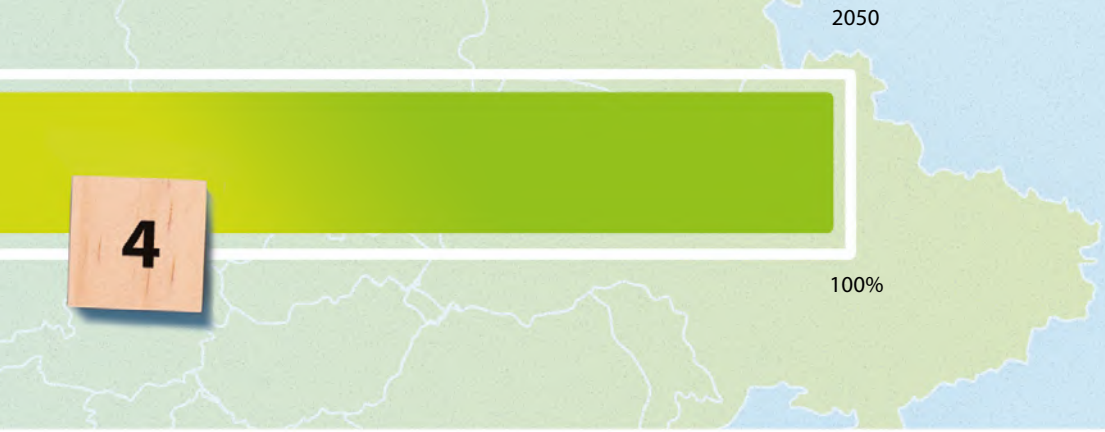
However, in the whole of Europe, renewable heating via heat pumps represents only 10% of all heating systems installed annually. This contrasts sharply with the EU Commission's ambitious target by 2030: 40% penetration of renewables in heating and cooling. At Daikin, we see the solution will be to take 4 steps to decarbonizing residential heat, in order to achieve the EU Commission's targets by 2030.

3 End fossil fuel incentives

Policy makers could avoid incentives for fossil fuels. Currently, direct or indirect incentives benefit oil or gas-based boilers, due to different taxation of heat pumps compared with boilers for instance.
While doing this, the gap between today's electricity and gas prices in many member states is too high to make a heat pump an economically attractive investment for EU citizens. In the short term, government incentives can help accelerate the transition to carbon-neutral heating and make heat pumps accessible to all Europeans, but in the longer term more balanced energy prices and a correct indication of the energy and carbon performance of a building need to support the end user motivations to invest in heat pump technology.

4 Renewable heating standard in replacement

At Daikin, we believe heat pump systems have to become the standard when replacing heating systems. It is a fact that heat pumps are increasingly capable of high efficiencies, even at lower outdoor temperatures.
The hydronic heat pump technology has developed quickly in recent years, making it fit for any type of residential building in Europe whether it is for the new build market or the replacement market.
By increasing the share of green electricity to 60% of total EU electricity production, heat pumps will continue to increase their contribution to a decarbonized residential heating world.



The future

At Daikin we're excited and passionate about taking on the changing environment and playing a key role in bringing this innovative technology into people's homes while ensuring all stakeholders, such as installers and architects, are on board.
We can do our bit as well by making installation as simple as possible through great design. Europe has the technology, the expertise and the investments to expand the heat pump market further. From single family to multi-family homes, from small to large commercial buildings and industrial plants, heat pumps today are ready to go mainstream.
All the signs are indicating that we need to act now! Let's convince those in the replacement market that heat pumps are the future and increase awareness regarding energy, cost-efficiency and environment-related advantages.

Stand By Me,

a journey to customer satisfaction

It's time to relax. With your customer's new Daikin installation and Stand By Me service programme, you can rest assured they are benefiting from the best comfort, energy efficiency, usability and service available on the market. Stand By Me eliminates your clients' worries and provides them with a free, extended warranty, quick follow-up from Daikin service providers, and additional warranties for specific parts.

Discover in detail the Daikin Metroline

Have a detailed look at each stop to see how our tools can facilitate your journey with Daikin.

1

Residential Solutions Navigator
Provides you with leads that come with more in-depth details
Web portal · Consumer

2

Heating Solutions Navigator
Provide the best fit solution for your customers homes
Web portal · Professionals

3

Daikin e-Care
Access to registration, commissioning, configuration and trouble shooting
Mobile app · Professionals

4

Stand By Me
Manage your installation database and offer comfort and service to your customer
Web portal · Professionals

5

Onecta app
End-user app to control the residential unit
Mobile app · Consumer

NEW

Discover the new features

We keep investing in the support towards our installers. With your Daikin account, you have access to Stand By Me and the Heating Solutions Navigator online. Use the same account to access the Daikin e-Care app. The tools offer now new features, check it out!

Heating Solutions Navigator
Newest function:
- Multi-Family Home
- Daikin Home Controls

Residential Solutions Navigator
- Detailed Multi(+) calculation

Stand By Me
Newest functions:
- Trainings for professionals (SBM CP Program)
- Direct Service offering from professionals to end-users via SBM (Daikin à la Carte)

Daikin e-Care
Newest function:
- Guided commissioning via online check list
- Support for trouble shooting
- Direct access to installation manuals
- Digital Key for Altherma 4

Guided commissioning via online checklist

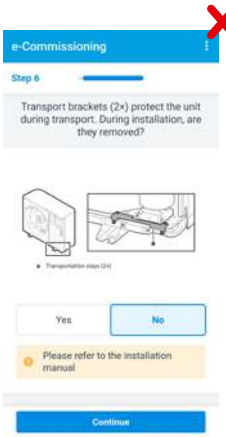
e-Commissioning is the latest tool released in the e-Care app, aiming to improve the quality and reliability of Daikin installations. It is a step-by-step checklist that assists service partners during the commissioning of the unit.
- Product-specific and country-specific checklist, to ensure maximum flexibility of use and compliance with local requirement
- Get instant feedback if there are problems with the checklist (screen will display an error message)
- Generated PDF report available at all times via the e-Care app or via the SBM professional portal
- Generated commissioning documents automatically sent to the end user in case of successful commissioning
- Possibility to save a draft of the checklist at any time
- Offline use
- Possibility to upload pictures of the installation site
- Possibility to add end user and professional signatures
- Available for Altherma units



e-Care installation details after Registration



Example of the correct answer

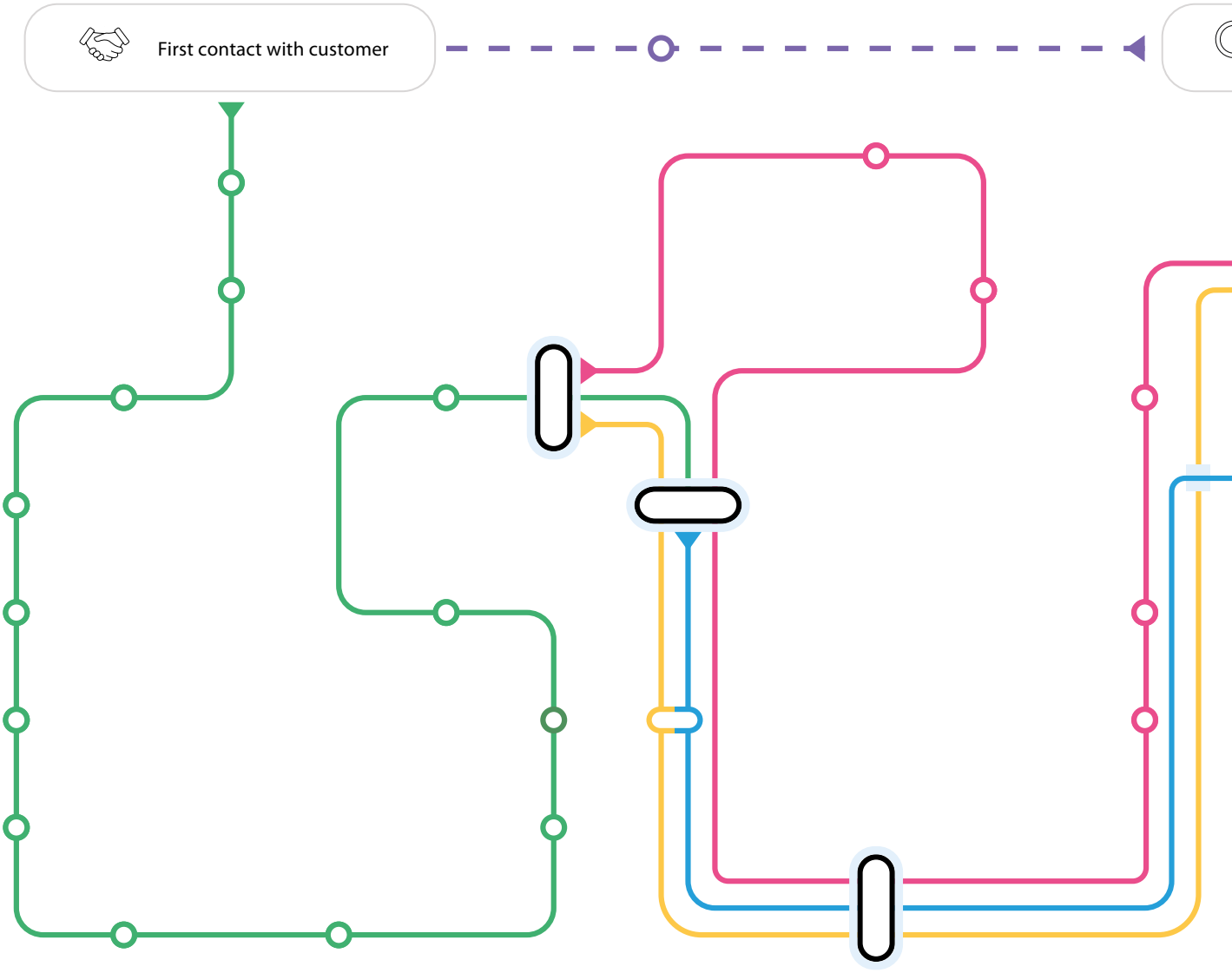


Example of the incorrect answer

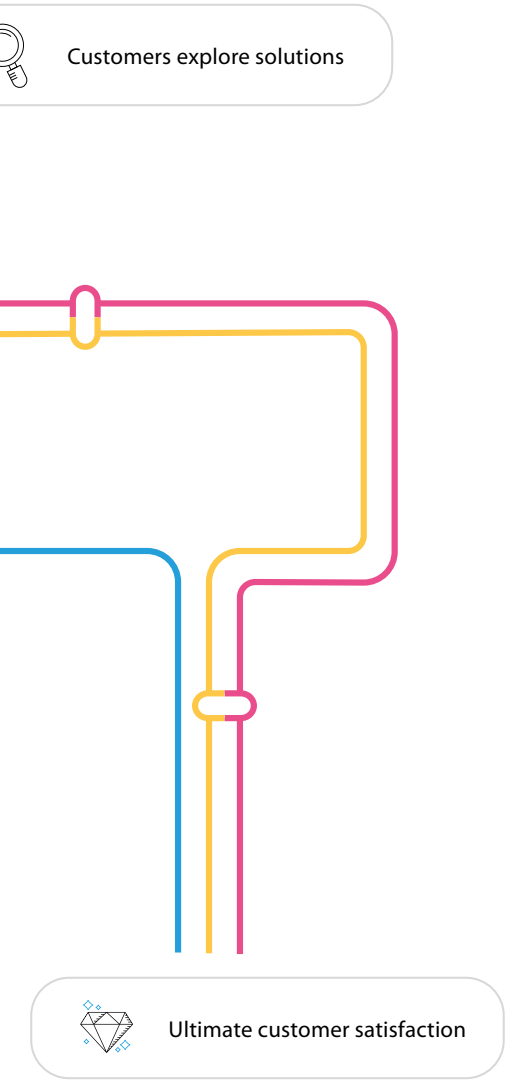
Scan the QR code to download Daikin e-Care now

Get on board on our train to ultimate customer satisfaction

On our underground map, you can discover all the tools we offer to Daikin installers to help them from the first point of contact with a new client, to the maintenance and repair after installation.



Scan the QR code or go to
http://metro.standbyme.daikin.eu for the tool



Heating Solutions Navigator

- Do the radiator test
- Simplified heat load
- Room by Room Heat Load Calculation
- Radiator selection
- Heatpump Convector
- End user quotation
- Piping & Wiring
- Thermal solar calculation tool
- Underfloor heating
- Pipe sizing
- Ventilation
- Literature
- Economic Viability Study
- e-Configuration tool
- Installation registration

Daikin e-Care

- e-Configuration tool
- Hydrobalancing tool
- Installation registration
- Commissioning tool
- Maintenance
- Maintenance guide
- e-Doctor
- Installation monitoring
- Spareparts ordering
- Repair

Stand By Me

- e-Configuration tool
- Installation registration
- Installation monitoring
- Warranty extension
- Maintenance
- Repair

Daikin ONECTA App

- Installation registration
- Warranty extension
- Maintenance
- Repair
- Remote control

Residential Solutions Navigator

- Residential Solutions Navigator

Stand By Me Certified Partner

Purpose of the programme

The programme was created to provide you and your customers **peace of mind**, ensuring **highest installation quality** and **after sales care** throughout the product lifespan.

We want to support our installer networks and provide you with **extensive training** given by Daikin professionals. Thanks to that, you will be able to **grow your business** with the **endorsement of a globally recognized brand**.

Benefits

- ☑ **Set yourself apart from the competition** with specialized knowledge to maximize installation speed, assure best quality and minimise the needs for call-backs after installation
- ☑ **Help you grow your business and expand your network** with an advanced product trainings, **strong technical foundation** and enhanced visibility with Stand By Me Certified Partner logo
- ☑ Customers **value highly qualified professionals** with **recognized certification**. You provide them with an additional label of trust along with comprehensive product lifespan care of Daikin Altherma units.
- ☑ **Access to the wearables, professional protective equipment and accessories exclusive** to the Stand By Me Certified Partner network.



Certification levels

The authorization level depends on your programme participation. As a Certified Partner you are granted to conduct after-sales services for a specific product range.

There are 2 different programmes:
- Programme 1 applies to Daikin Altherma units based on R-32 refrigerant
- Programme 2 applies to Daikin Altherma units based on R-290 refrigerant

Programme 1: Daikin Altherma - R-32 range

To perform maintenance/repair

Product Training
F-gas license neecessary to start this training

1 day

Classroom

L3

This training is necessary to perform maintenance and repair activities on R-32 products for contracts on Stand By Me platform that belong to the Daikin Altherma 3 series.

Programme 2: Daikin Altherma - R-290 range

To perform commissioning/maintenance/repair

Safety Training
Storage – transportation - installation

30 min.

Online

L1

→

Safety Training
Maintenance - repair - disposal

1 hour

Online

L2A

→

Safety Training
Maintenance - repair - disposal

1 day

Classroom

L2B

→

Product Training
F-gas license necessary to start this training

1 day

Classroom

L3

These trainings are necessary to perform commissioning, maintenance and repair activities on R-290 products that belong to the Daikin Altherma 4 series.

Join us!
Register to become a Certified Partner:

6 reasons to choose a heat pump



1 A heat pump increases the value of your property

The installation of heat pumps significantly enhances the Energy Performance Certificate (EPC) ratings of buildings in Europe, often improving them by one or two energy classes. This improvement leads to energy savings, increased comfort, and a better environmental profile, which can boost property values or rental fees by 2 to 8%.



2 Projections of savings on energy costs by heat pumps

The installation of a heat pump to substitute a natural gas boiler is expected to generate energy savings over 10 years. Energy savings are likely to grow at a steady pace over the years.
Daikin Europe conducted simulations to forecast energy prices, considering factors such as historical prices, the European Emission Trading System (ETS), and future carbon taxation. A case study estimated savings for a reference house with a heating demand of 10,000 kWh, showing that using a heat pump can save a total of €2,602 over the decade.



3 Overview of incentive schemes on heat pump technology

Although heat pumps may require a higher initial investment than traditional heating systems, they are often eligible for government incentives and premiums. To contrast climate change, many governments are phasing out gas and oil boilers and promoting low-carbon solutions like heat pumps. Historically, convincing homeowners to switch to heat pumps has been challenging, but rising gas prices and the availability of subsidies across Europe are increasing interest and acceptance. These subsidies significantly enhance the competitiveness of heat pumps, accelerating the transition to sustainable heating solutions.



4 Overview of a (possible) ban on conventional heating technology

The ban on conventional heating technologies (natural gas boilers) is, in many countries, part of the long-term pledge to achieve net zero emissions by 2050. European governments are progressing towards their net-zero emissions goals, with many countries committing to achieve this by setting measurable near-term milestones. One key milestone is the increase in zero-carbon-ready buildings, which means utilising renewable energy technologies like heat pumps and photovoltaic panels or depend on fully decarbonizable energy sources. As part of the REPowerEU plan, the European Commission aims to completely ban stand-alone fossil boilers by 2029 to enhance energy efficiency and accelerate the green transition.



5 Environmental impact of heat pumps

Heat pumps are vital for achieving the EU's decarbonization goals. A case study shows that Daikin heat pumps can be 2 to 24 times less carbon-intensive than gas boilers, leading to annual CO_2 savings of 0.2 to 2 tons, depending on the electricity grid.
The EU Green Deal aims to reduce greenhouse gas emissions by 55% by 2050. With buildings responsible for 40% of energy use and 36% of emissions, heat pumps provide a more efficient and eco-friendly solution. Benefits include high efficiency and reduced fossil fuel dependency, with projections indicating a reduction of 21 billion cubic meters in gas demand for heating by 2030.



6 Synergies among the usage of heat pumps with solar panel (PV) systems

A heat pump can enhance the self-consumption rate of a residential photovoltaic (PV) installation by about 10%, yielding annual financial benefits of €80 to €120, depending on energy prices. This is based on a Daikin case study of a 5 kWp PV system and a heat pump with a 250 liter tank in Belgium.
Combining heat pumps with PV panels allows households to use free solar electricity for heating and hot water, reducing reliance on gas. As feed-in tariffs decrease across Europe, maximizing self-consumption becomes increasingly important. The heat pump can utilize excess solar energy to heat domestic hot water, effectively acting as an "energy battery" by storing energy for later use.

To read full articles with in-depth analysis scan QR code and visit our website:

Daikin Altherma heat pump portfolio

Daikin's DNA is all about heat pumps. In residential heating, we offer a wide range of heat pumps from air-to-water to hybrid heat pumps, including ground source heat pumps. Daikin heat pumps can answer all need by providing the necessary comfort in space heating, space cooling or domestic hot water.

	R	H	M	Single family | small	Single family | large	Multi family | decentralised	Multi family | centralised
 Daikin Altherma 4 H		●		● ●	● ●		
 **Daikin Altherma 3** H HT / H MT / R MT	●	●		●	● ● ●	● ●	● ● ●
 **Daikin Altherma 3** R 11-16 kW	●			●	● ●	● ● ●	
 **Daikin Altherma 3 R** 4-8 kw	●			● ●	● ●	● ● ●	
 **Daikin Altherma 3 M** 4-8 kW			●	● ●	● ●	● ● ●	
 **Daikin Altherma 3 M** 11-16 kw			●	●	● ● ●		● ● ●
  **Daikin Altherma Add on Hybrid** (keep boiler, add monobloc heat pump			●	●	●	●	

		R	H	M	Single family | small	Single family | large	Multi family | decentralised	Multi family | centralised
	**Daikin Altherma 3 Geo**			●	● ● ●	● ● ●		
	**Daikin Altherma 3 WS**			●				● ●
	**Daikin Altherma Hybrid** R	●			●	●	●	

- ● New built
- ● Renovation
- ● Replacement

- R Refrigerant split units
- H Hydro split units
- M Monobloc systems



Heat Pumps

- Indoor units 86
- Daikin Altherma 4 H NEW 92
- Daikin Altherma 3 H MT/HT 102
  - Daikin Altherma 3 H MT/HT F 109
  - Daikin Altherma 3 H MT/HT ECH$_2$O 116
  - Daikin Altherma 3 H MT/HT W 125
- Daikin Altherma 3 R MT 132
  - Daikin Altherma 3 R MT F 139
  - Daikin Altherma 3 R MT ECH$_2$O 146
  - Daikin Altherma 3 R MT W 155
- Daikin Altherma 3 R (ERLA-D series, 11-14-16 kW) 160
  - Daikin Altherma 3 R F 164
  - Daikin Altherma 3 R ECH$_2$O 169
  - Daikin Altherma 3 R W 174
- Daikin Altherma 3 R (ERGA-E series, 4-6-8 kW) 180
  - Daikin Altherma 3 R F 182
  - Daikin Altherma 3 R ECH$_2$O 187
  - Daikin Altherma 3 R W 192
- Daikin Altherma 3 M 198
  - Daikin Altherma 3 M (4-6-8 kW) 198
  - Daikin Altherma 3 M (9-11-14-16 kW) 204
- Daikin Altherma M HW 214
- Daikin Altherma Ground source heat pump 220
  - Daikin Altherma 3 GEO 220
- Daikin Altherma Hybrid heat pump 228
  - Daikin Altherma R Hybrid 231
  - Daikin Altherma R Hybrid + multi 232
  - Daikin Altherma H Hybrid 236

One solution, multiple combinations

Daikin Altherma product ranges can be combined with three different indoor units to connect to the outdoor unit, offering specific features to ensure heating, cooling and domestic hot water in your home.

Daikin indoor units can be installed in different places, garage, basement, utility room or even a kitchen while still blending in with the indoor design.

The units have also been designed to ease the work of the installer and therefore contribute to your peace of mind!

Integrated DHW stainless steel tank model



reddot award 2018 winner

Integrated ECH$_2$O DHW tank model



Wall mounted model



reddot award 2018 winner

Advanced user interface



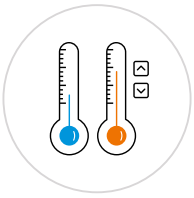
The Daikin Eye
The intuitive Daikin eye shows you in real time the status of your system.
Blue is perfect! Should the eye turn red, an error has occured.

Quick to configure
Log in and you'll be able to completely configure the unit via the new interface in less than 10 steps.
You can even check if the unit is ready for use by running test cycles!

Easy operation
Work super-fast with the new interface. It's super easy to use with just a few buttons and 2 navigational knobs.

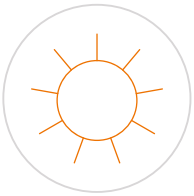
Beautiful design
The interface was especially designed to be very intuitive. The high contrasted colour screen delivers stunning and practical visuals that really help you as installer or service engineer.

Choose from the Daikin "Three Pluses" the functionality that best fits your customer's needs. The indoor units come in 3 possible versions: heating only, reversible and bizone, giving you the opportunity to tailor your Daikin heating system.



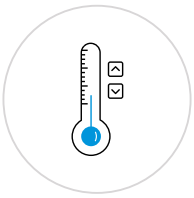
Reversible model

If cooling is needed, all three indoors have dedicated reversible models. Reversible means that the system can invert its way of working and provide cooling instead of heating. The cooling function requires a underfloor piping system or fan coil units.



Heating only model

The heating only model is standard in the Daikin product range and is available for all three indoor units. This means that your heating system provides space heating and domestic hot water.



Bizone model

Only the DHW stainless steel tank model has a dedicated bizone model: you can choose two independent zones with different emitters that need a different temperature level in different rooms (example: underfloor system in the living room and radiators in the bedroom upstairs).

Indoor units are applicable for:

Daikin Altherma 3 R (ERGA-E series, 4-6-8 kW)
Daikin Altherma 3 R (ERLA-D series, 11-14-16 kW)
Daikin Altherma 3 H MT/HT
Daikin Altherma 3 R MT
NEW Daikin Altherma 4 H (with 5" touchscreen)



Control with Onecta app



Discover more on page 294

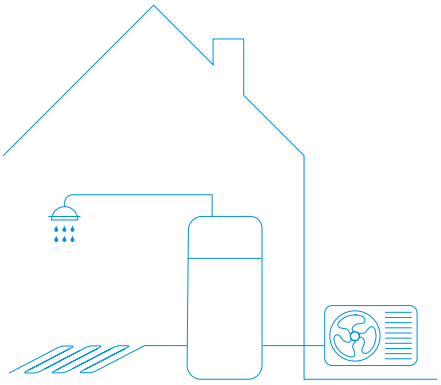
Indoor units

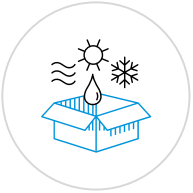
Floor standing unit



Why choose Daikin floor standing unit with integrated domestic hot water tank?

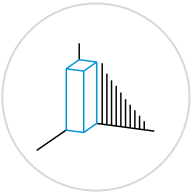
The Daikin Altherma floor standing unit is the ideal system to deliver heating, domestic hot water and cooling for renovation or large new built.





All in one system to save installation space and time

- A combined stainless steel domestic hot water tank of 180 or 230 L and heat pump ensures a faster installation compared to traditional systems.
- Inclusion of all hydraulic components means no third party components are required.
- PCB board and hydraulic components are located in the front for easy access
- Integrated back-up heater choice of 6, 9 kW models are available
- Dedicated bi-zone models providing different water temperatures to zones with different needs, for example: underfloor heating on the ground floor and radiators on the upper floor.



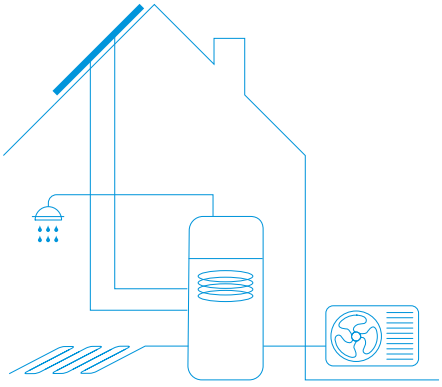
Reduces the installation footprint and height

- Compared to the traditional split version for a wall mounted indoor unit and a separate domestic hot water tank, the integrated indoor unit greatly reduces the installation space required.
- For installation projects, almost no side clearance is necessary as the piping is located at the top of the unit.
- With unit height of 1.65 m for an 180 L tank and 1.85 m for a 230 L tank, the required installation height is less than 2m.
- The compactness is emphasised by its sleek design and modern look, easy blending in with other household appliances.

Indoor units

Floor standing unit with integrated ECH_2O tank

The Daikin Altherma with integrated ECH_2O tank is renowned for its ability to maximise renewable energy sources to provide the ultimate comfort in heating, domestic hot water and cooling.





Innovative and high-quality tank

- Lightweight plastic tank
- No corrosion, anode, scale or lime deposits
- Contains impact resistant polypropylene inner and outer walls filled with high-grade insulation foam to reduce heat losses to a minimum

Intelligent storage management

- The unit is 'Smart Grid' ready to take advantage of low energy tariffs and efficiently store thermal energy for space heating and domestic hot water
- Continuous heating during defrost mode and use of stored heat for space heating (500 L tank only)
- Electronic management of both heat pump and ECH_2O thermal store maximises energy efficiency, as well as convenient heating and domestic hot water
- Achieves the highest standards for water sanitation
- Uses more renewable energy with solar connection

Combinable with other heat sources

- The bivalent option allows heat from other sources such as oil, gas or pellet-fired boilers to be stored in the solar system, further lowering energy consumption

ECH_2O thermal store range: additional hot water comfort

Combine your indoor unit with a thermal store to achieve the ultimate comfort at home.

- Fresh water principle: receive domestic hot water on demand while eliminating the risk of contamination and sedimentation
- Optimal domestic hot water performance: the low temperature evolution enables high tapping performance
- Fit for the future: possibility to integrate with renewable solar energy and other heat sources, e.g. fireplace
- Lightweight and robust build of the unit combined with the cascade principle offers flexible installation options

Built for small and large homes, customers can choose between a pressureless and a pressurised hot water system.

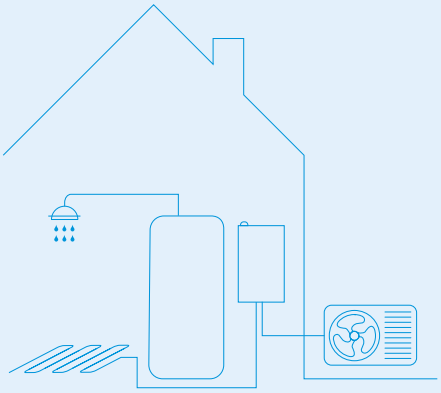
Indoor units

Wall mounted unit



Why choose Daikin wall mounted unit?

The Daikin Altherma 3 wall mounted unit offers heating and cooling with high flexibility for a quick and easy installation, with an optional connection to deliver domestic hot water.



High flexibility for installation

- Inclusion of all hydraulic components means no third party components are required
- PCB board and hydraulic components are located in the front for easy access
- Compact dimensions allows for small installation space, as almost no side clearances are required
- The unit's sleek design blends in with other household appliances
- Combine with a stainless steel or ECH_2O thermal store

Flexibility in providing domestic hot water connection

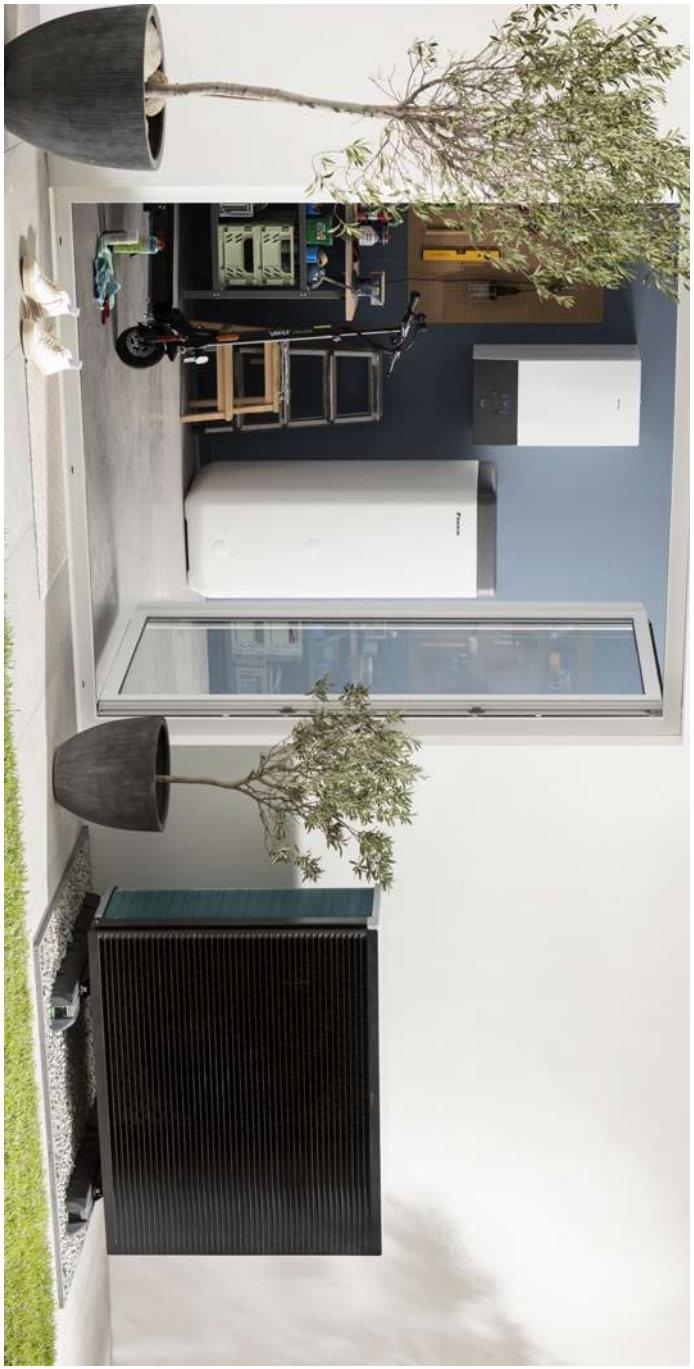
If the end user only requires hot water and installation height is limited, a separate stainless tank provides the required installation flexibility.

ECH_2O thermal store range: additional hot water comfort. Combine your wall mounted unit with a thermal store for additional hot water comfort.

- Fresh water principle: receive domestic hot water on demand while eliminating the risk of contamination and sedimentation
- Fit for future: possibility to integrate with renewable solar energy and other heat sources, e.g. fireplace

Flexibility in providing space heating

The wall mounted unit is the perfect choice in case the end user is looking for space heating or cooling while domestic hot water is provided by another system.





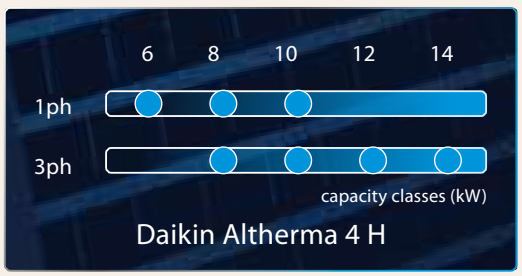


Daikin Altherma 4 H

New high temperature air-to-water heat pump, perfect for any house modernization

Daikin Altherma 4 H is an extremely efficient high temperature heat pump made to cover the needs of existing houses with traditional heating emitters.

Made for easy transition to more efficient, sustainable, comfortable and safe heating system.





Technology designed to boost performance to the next level

Engineered with in-house developed and produced key components, including a compressor and micro-channel heat exchanger, creates a synergy that ensures unmatched performance in all weather conditions.

High capacity
at cold ambient
Up to 13kW at -7/55°C

Up to
75°C

LWT at 75 °C
down to -15 °C

Low sound:
down to 28 dBA at
3 meters distance



Reliable cold climate operation
With best-in-class heating capacity, Daikin Altherma 4 H delivers 10.2 kW at 7/55°C (for 14kW unit), ensuring warmth when it matters most.

Daikin Altherma 4 operates down to -28°C even in the harshest conditions, providing consistent comfort no matter the weather.

Best replacement solution
Daikin Altherma 4 H is perfect for replacing fossil fuel boilers, as it fits seamlessly with existing radiators, delivering outstanding leaving water temperatures (LWT) of 70-75°C even at -15°C.

-28°

Operation range down
to -28 °C

up to A+++ (A+++ ↑ D)

At 55°C average climate

up to A+ (A+ ↑ F)

Domestic Hot Water

Setting new boundaries in heat pump technology

We introduce to you the first heat pump within this 4th generation, with R-290 refrigerant.

Every home deserves sustainable and cost-saving heating system. That's why in Daikin Altherma 4we put eco-friendly R290 refrigerant, Daikin developed compressor, and a fan to make it highly efficient. Enjoy the affordable warmth with no worries about energy bills. You can reduce the costs of house heating even up to 70%!

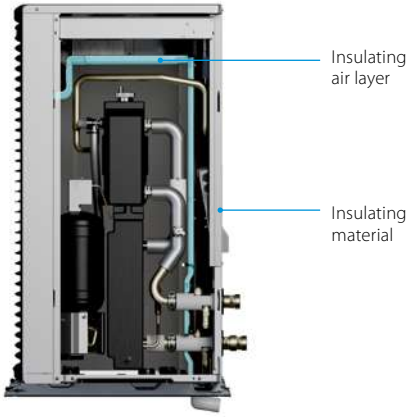
R-290 Refrigerant

R-290

- R-290 is a **category A3 refrigerant** (according to DIN EN 378).
- R-290 is similar in nature to the **A3 refrigerant R-600A** (isobutane), which is also widely used, and which is commonly used by manufacturers of white goods and the responsible logistics companies.
- The handling of A3 refrigerants is thus neither new nor unusual. However, some basic precautions must be taken during storage and transport.

Engineered for whisper-quiet operation.

Equipped with new soundbox and improved insulation technology to ensure peaceful environment. The sound box is mounted on the bottom plate instead of on the anti-vibration plate, with increased insulation.

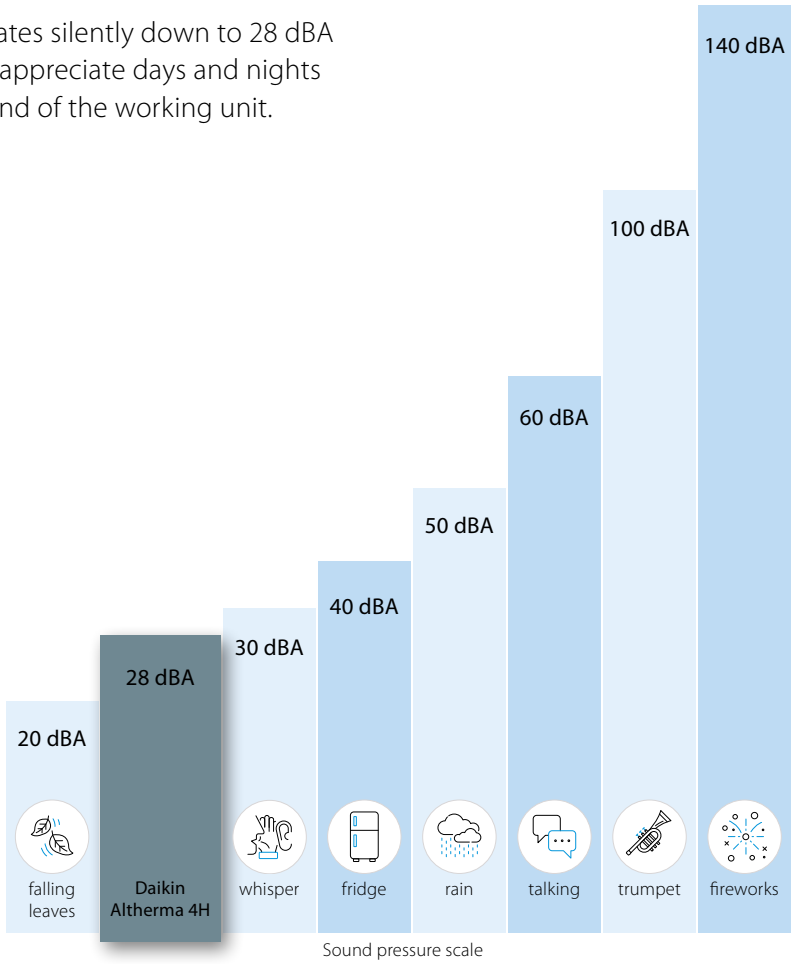


Innovative louvered grill was specially designed to minimize sound power to the impressive level of 50 – 54 dBA, ensuring uninterrupted peace

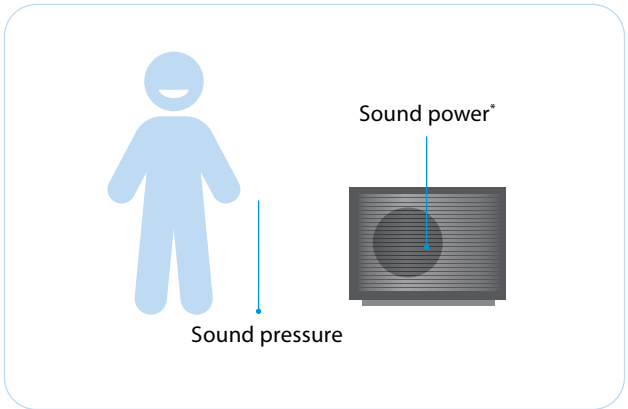
- Contemporary sleek design based on Daikin Altherma 3 award winning design
- Black louvered grill minimizes the visibility of the fan (made of >50% recycled plastics from industrial waste)
- Integrates seamlessly with the surrounding environment by reflecting the surroundings on its cover and side panels



Daikin Altherma 4 operates silently down to 28 dBA at 3 meters, so you can appreciate days and nights undisturbed by the sound of the working unit.



Sound pressure scale



The acoustic level can be evaluated in two ways

- The **sound power** is generated by the unit itself, independently of distance and environment
- The **sound pressure** is the sound perceived at a certain distance. The sound pressure is usually calculated at between 1 and 5 metres from the unit.

* Erp sound power:
  - class 06-08 – 45 dBA
  - class 10 – 47 dBA
  - class 12-14 – 52 dBA

Highest safety standards in the industry

At Daikin, safety is our top priority. The Daikin Altherma 4 H heat pump is designed to set new industry safety standards, incorporating advanced features such as a high-efficiency gas separator and factory-mounted anti-freeze valves.

These components, developed specifically for Daikin, ensure unparalleled safety and performance.

Sealed Switchbox:

- Placed away from the refrigerant connections, on top of the fan
- The full sealing prevents R-290 to get inside the switchbox







Gas leak sensor:

- Detects potential refrigerant leaks
- In case of leak detection, sensor automatically triggers the fan to run at maximum speed, effectively ventilating the area to prevent the buildup of a flammable gas cloud.
- Minimum hourly self-inspection check, ensuring ongoing protection.



Refrigerant vessel:

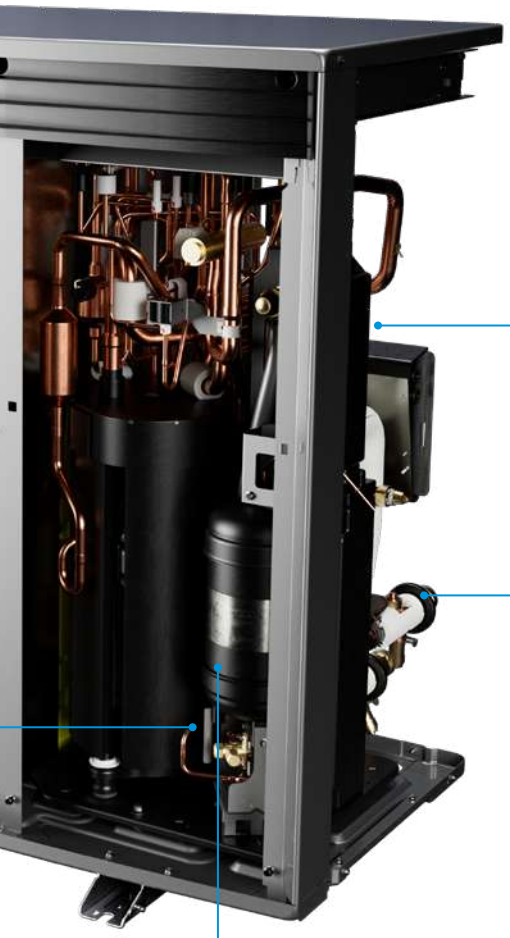
- Protects refrigerant against possible damage during storage and transportation, that might cause leakages
- After installation, R-290 is released into the refrigerant cycle
- **It can survive a 10 metres drop without leakage**





Gas separator:

- In the outdoor unit prevents R-290 to reach the indoor unit via the water circuit.





Anti-freeze valve:

- Protects the plate heat exchanger
- against freezing
- Avoids R-290 leaks going from the
- refrigerant circuit to the water circuit

Intelligent control

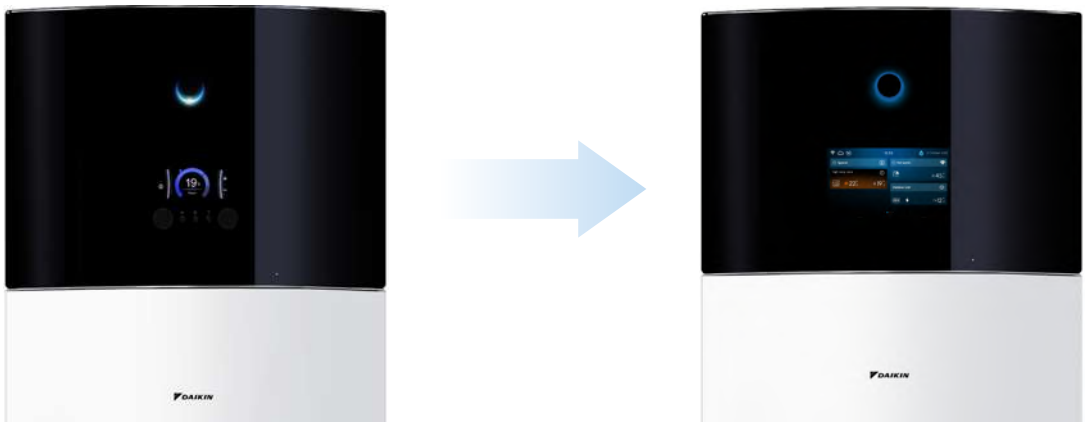
Straightforward and easy to use

Daikin's Altherma 4 H new intelligent control system is designed to enhance the user experience and installers efficiency.

With advanced features like a 5" color touch screen, streamlined commissioning, and remote troubleshooting functions, this system ensures reliable performance and easy management.

Tailored for installers, it offers secure settings access and future-proof technology, making it the ultimate choice for seamless installation and maintenance.

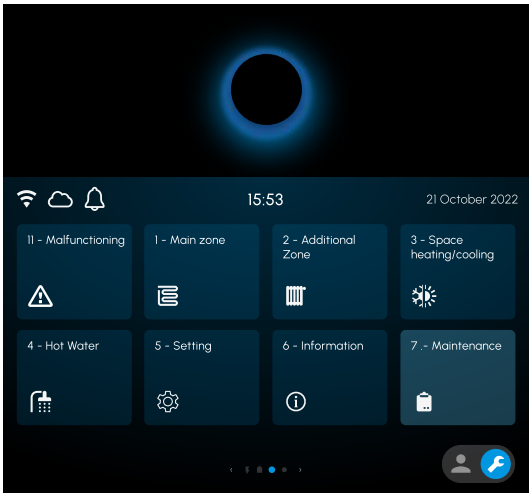
New intuitive **MMI 5" touchscreen** for better user experience.

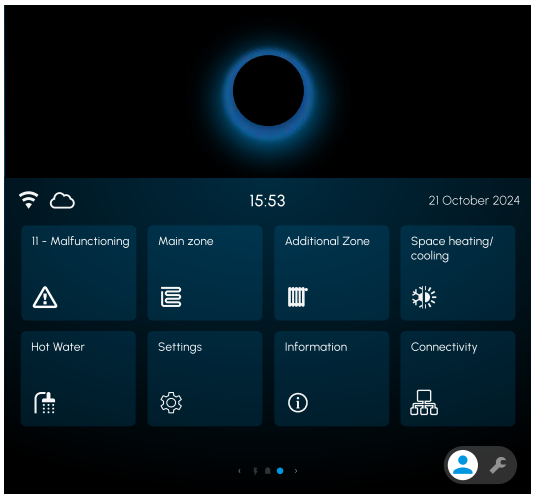




NEW

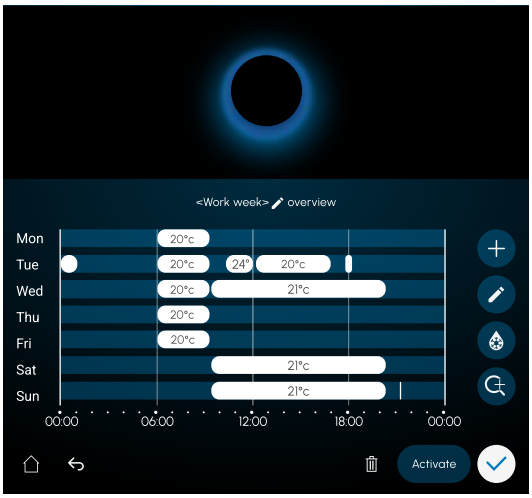
Easy customer access to main functionalities.

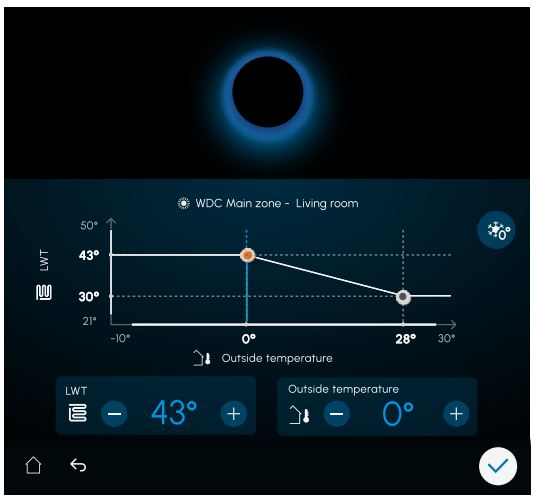




Installer settings only visible in installer mode

Block based easy scheduling for cooling and heating





Thanks to the Weather Dependent Curve – optimal comfort and high efficiency with automatically determined desired temperature.

Daikin Altherma 4 H

- Best-in-class heating capacity, ensuring warmth at cold ambient
- Outdoor unit extracts heat from the outdoor air, even at -28°C
- By heat pump operation only, the outdoor unit delivers a leaving water temperature of 70-75°C at -15°C ambient temperature
- Ultra low sound level of 50-54 dBA
- Choosing natural refrigerant R-290 product reduces the environmental impact, leading to lower energy consumption



EPSK-A



At 35°C average climate
At 55°C average climate





LWT 75°C
at -15°C

R-290

Outdoor Unit			EPSK	08AW1	10AW1	06AV3	08AV3	10AV3	12AW1	14AW1
Dimensions	Unit	HeightxWidthxDepth	mm	1,123x1,330x604						
Weight	Unit		kg	178		174			191	
Compressor	Quantity			1						
	Type			Hermetically sealed scroll compressor						
Operation range	Cooling	Min.~Max.	°CDB	10 ~43						
	Domestic hot water	Min.~Max.	°CDB	-28 ~40						
Refrigerant	Type			R-290						
	GWP			3						
	Charge		kg	1					1.25	
	Control			Expansion valve						
Sound power level	Heating	Nom.	dBA	45 (1)	47 (1)	45 (1)		47 (1)	52 (1)	
	Cooling	Nom.	dBA	53	53.2 (2)	52.2 (2)	53	53.2 (2)	62	63
Sound pressure level	Heating	Nom.	dBA	32.4 (1)	32.8 (1)	32.6 (1)	32.4 (1)	32.8 (1)	38	
	Cooling	Nom.	dBA	37.2 (2)	37.3 (2)	36.9 (2)	37.2 (2)	37.3 (2)	47	48
Power supply	Name/Phase/Frequency/Voltage		Hz/V	W1/3~/50/400		V3/1~/50/230			W1/3~/50/400	
Current	Recommended fuses		A	16		25			16	

(1)Measured at LWC 47-55°C; Ta DB/WB 7°C/6°C. | (2)Measured at LWC 12-7°C; Ta 35°C. | 1 1/4" field piping | 1 1/2" field piping

Daikin Altherma 3 H MT & HT

Ideal boiler replacement

Ideal to replace gas boilers

Houses built in the 90s often need a refurbishment to still look up-to-date.

In a renovation project, this is also important to consider changing your initial heating system.

Daikin Altherma 3 H MT comes as a perfect replacement in such houses, where a leaving water temperature of 65 °C is sufficient. Easy to install, you can even leave the recent radiators installed!

Suitable for medium sized new buildings

With a capacity range going from 8 to 12 class, Daikin Altherma 3 H MT also fits in medium sized new buildings.







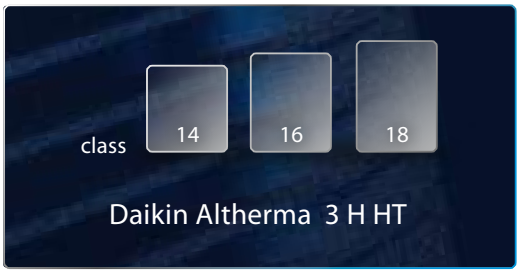
Ideal to replace oil boilers

Daikin Altherma 3 H HT is a high temperature heat pump, able to deliver a leaving water temperature of 70 °C. Thanks to this operation range, the unit can replace oil boilers in older houses.

Traditional radiators can also stay in place, but more recent radiators could be a good option in order to make further energy savings.

Suitable for large new buildings

With a capacity range going from 14 to 18 class, Daikin Altherma 3 H HT can answer the needs of large new buildings.



The Quintessence of heat pump

meeting modern society's expectations



Made in Europe, for Europe

European weather can be tough sometimes. That's why we designed the Daikin Altherma 3 H MT & HT.

Heating capacities are also maintained high by low ambient temperature thanks to genuine Daikin technology.

As the market leader, Daikin is always striving to make the most reliable and efficient heat pumps possible. Daikin developed the Bluevolution technology to achieve higher and greener performance. This technology is now part of all new products. The Daikin Altherma 3 H HT was the first Daikin outdoor unit with a distinctive design. Its single fan reduces the noise level and its black front grille makes the unit fit into any environment.

All these dedicated components were developed in-house to make the quintessence of heat pump unique.

Superior performance, renewable energy use, design and acoustic comfort. This is what the Quintessence of heat pump is all about.

BLUEVOLUTION

The Bluevolution technology combines a specifically developed compressor and the R-32 refrigerant. Daikin is one of the pioneers in the world to launch heat pumps equipped with R-32. With a lower Global Warming Potential (GWP), the R-32 is equivalent in power to standard refrigerants, but achieves higher energy efficiency and lower CO_2 emissions.

Easy to recover and re-use, R-32 is the perfect solution to attain the new European CO_2 emission targets.

R-32

Timeless design and space-saving installation

Aside from the acoustic comfort, design is a decisive point nowadays. Specific attention was paid to making the outdoor unit blend in with your home.

The black front grille stretches horizontally making the fan inside invisible. The mat grey casing reflects the colour of the wall behind for more discretion. This unit received the IF and reddot design awards 2019.



Witness a timeless design



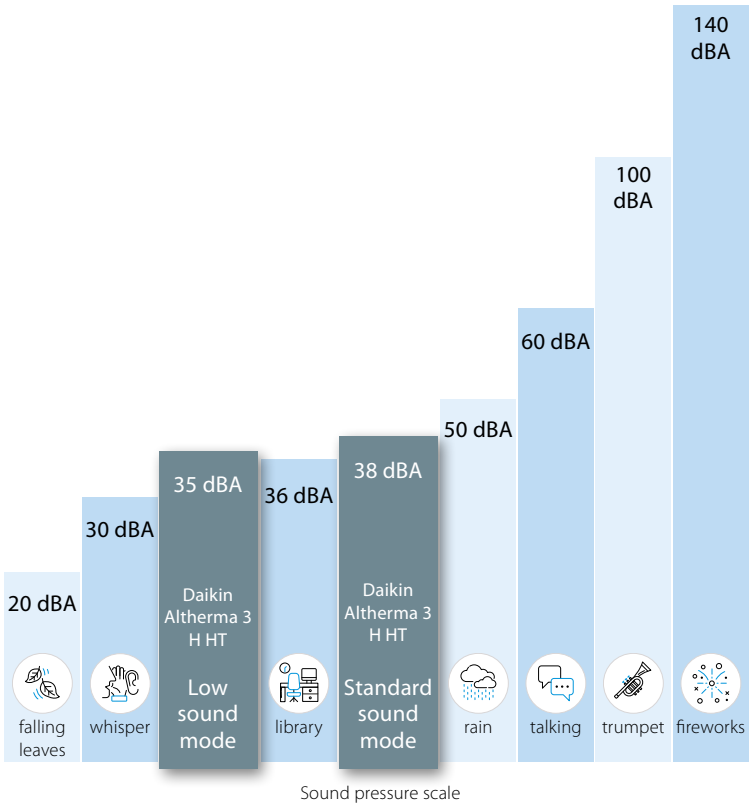


Silence rhymes with comfort

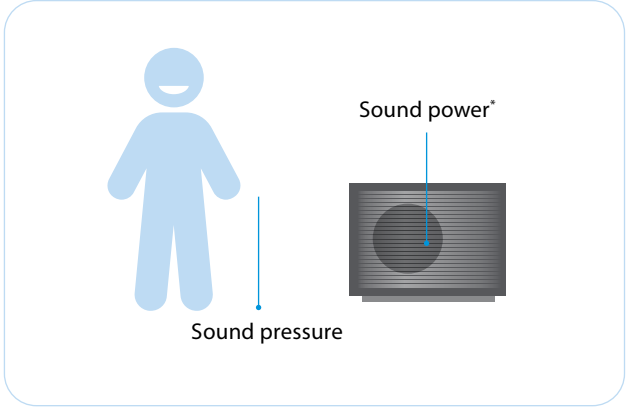
The Quintessence of heat pump has been designed to reduce its acoustic level and meet the expectations of today's society.

In standard sound mode, the unit produces a sound pressure of 38 dBA at 3 metres, so somewhere between birds chirping and the inside of a library.

The unit also offers greater flexibility by having a low sound mode that reduces the sound pressure at 3 metres to 35 dBA, representing a real reduction of half the sound level!



Sound pressure scale



The acoustic level can be evaluated in two ways

- The **sound power** is generated by the unit itself, independently of distance and environment
- The **sound pressure** is the sound perceived at a certain distance. The sound pressure is usually calculated at between 1 and 5 metres from the unit.

Listen to the silence of our outdoor unit

* Erp sound power:
Daikin Altherma 3 H MT = 53 dBA
Daikin Altherma 3 H HT = 54 dBA



Innovation
at the heart of our concerns

The Daikin Altherma 3 H MT & HT are at top of low sound and heating performances thanks to dedicated developments. Several major components are designed to make this product reach the excellence such as a double injection compressor and a single fan even for large capacity units as well as a brand-new casing.

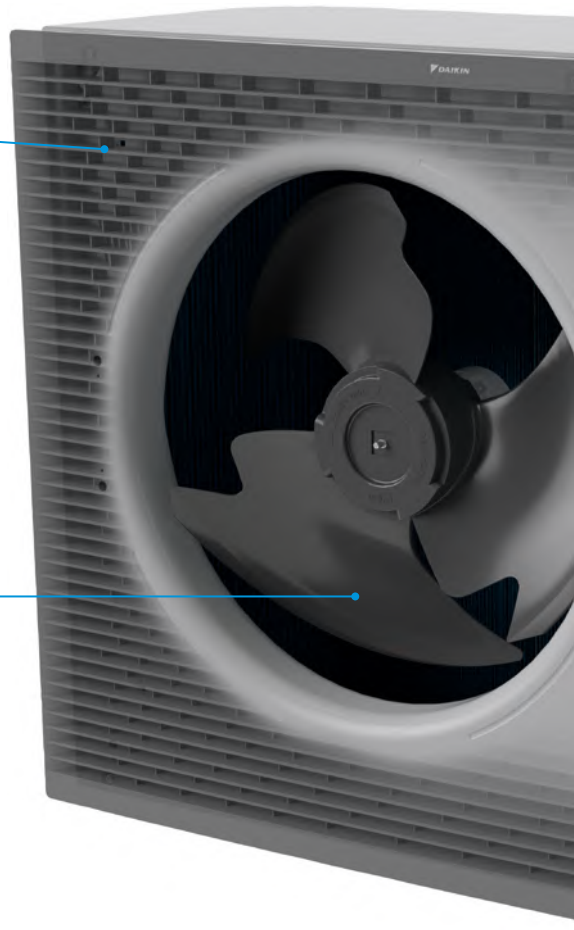
A redesigned casing
The black front grille made of horizontal lines is hiding the fan from view, reducing the perception of the sound produced by the unit.

The light grey casing is slightly reflecting the environment where the unit is installed, helping it to blend in in any decor.

This unique design already got design awards.

DESIGN AWARD 2019

reddot design award
winner 2019



A single fan for all capacities
The single fan is slightly larger, replacing the usual double fan for high capacity units (classes 8-10-12-14-16-18).

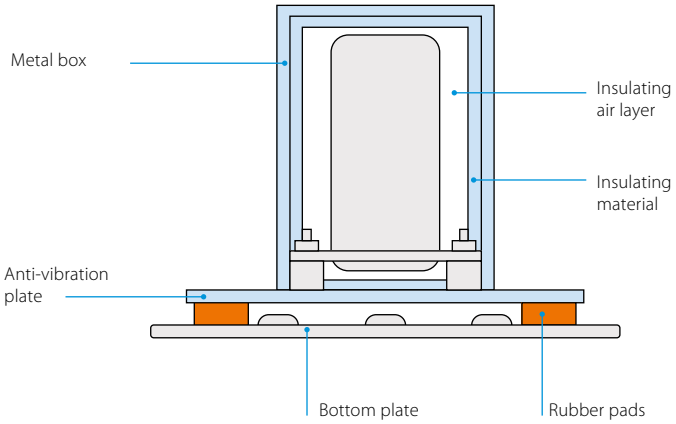
The shape of the fan has also been reviewed to reduce the contact surface with air therefore lower the sound level by improving the air circulation.

Compressor insulation and anti-vibration

To reduce the compressor sound power, several actions were taken in terms of absorption and insulation.

First, the compressor is surrounded by a 3-layer insulation made of air,
insulation material and a metal box.

Regarding the absorption, the unit benefits from a double sound reduction by using rubber pads between the bottom plate and the vibration plate under the compressor.





New double injection compressor

To make this product unique, Daikin Europe cooperated with Daikin Japan to develop top notch components. The Daikin Altherma 3 H HT compressor is able to deliver a high leaving water temperature of 70 °C on its own, while the Daikin Altherma 3 H MT available in classes 8-10-12 delivers up to 65 °C leaving water temperature.

Impressive performance

With these new developments, the Daikin Altherma 3 H MT & HT reach the best performances illustrated in the energy labels:



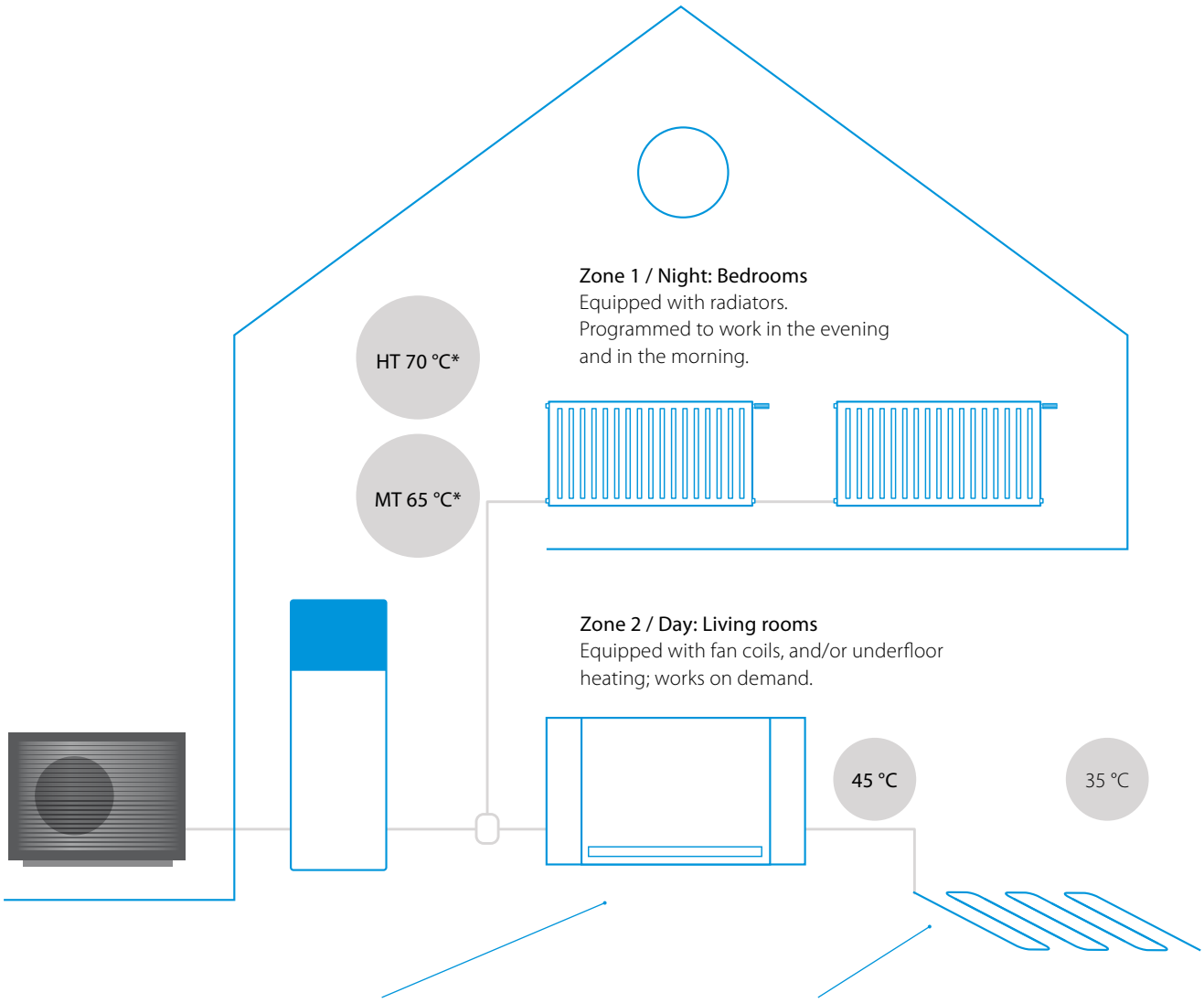
35 °C and 55 °C
Space heating

Feel a true performance

Get the best comfort

with the best functionalities

The indoor units come in 3 possible versions: heating only, reversible and bizone, giving you the opportunity to tailor your Daikin heating system.



Daikin Altherma HPC (heat pump convectors) are hydronic emitters that can provide cooling or heating. They can be combined and are a perfect fit with underfloor systems.

Your **underfloor piping system** is designed to receive mid-temperature water to heat your home, but when the summer comes, the pipes can also receive colder water to refresh your environment.

* Daikin Altherma 3 H HT models produce a LWT up to 70 °C (14-16-18 classes). Daikin Altherma 3 H MT produces a LWT up to 65 °C (08-10-12 classes).

DESIGN AWARD 2018

reddot award 2018 winner

R-32

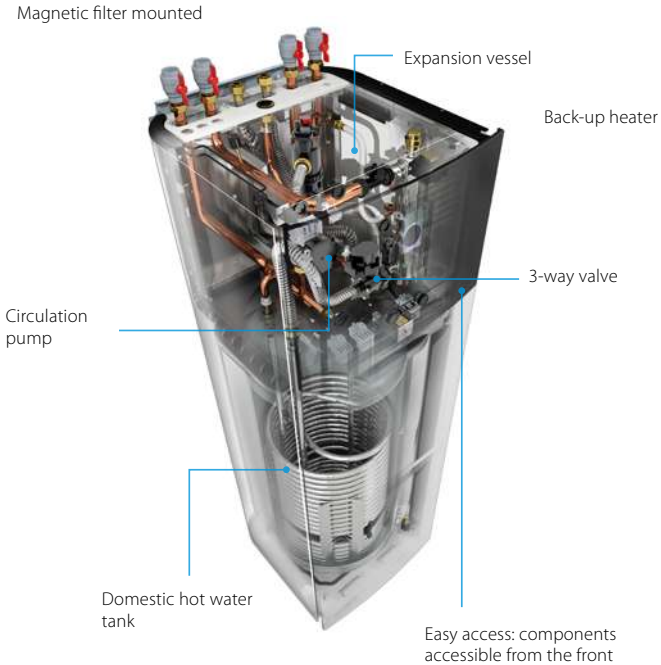
BLUEVOLUTION

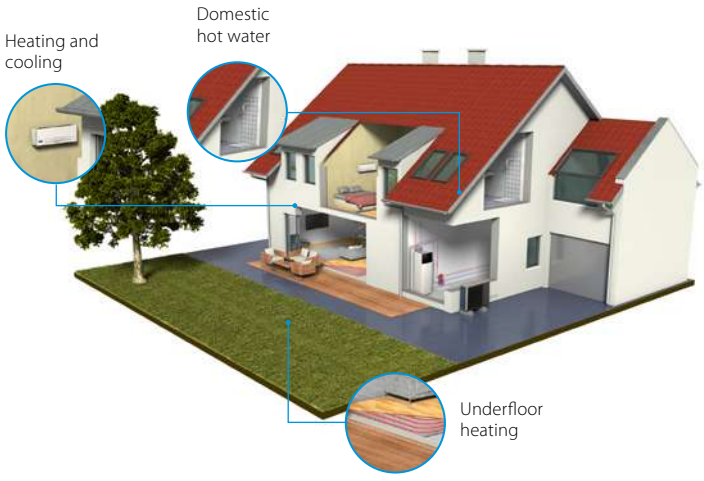
Floor standing unit with integrated tank

With a small footprint of 595 x 625 mm, the integrated indoor unit has a similar footprint when compared to other household appliances. The unit is equipped with a tank of 180 or 230 L to answer your domestic hot water demand.



Floor standing air to water heat pump for heating and hot water: ETVH units
Floor standing air to water heat pump for heating, cooling and hot water: ETVX units
Floor standing integrated with two different temperature zones monitoring: ETVZ units





DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 H MT F

Floor standing air to water heat pump for **heating and hot water**

- A combined stainless steel domestic hot water tank of 180 or 230 L and heat pump for easy installation
- Inclusion of all hydraulic components means no third party components are required
- PCB board and hydraulic components are located in the front for easy access
- Integrated back-up heater of 6 or 9 kW



up to A+++ D | A+ F | 65 °C | R-32

011-1W0503
011-1W0504
011-1W0505
011-1W0506
011-1W0507
011-1W0508

ETVH12E6V | ETVH12E9W | EPRA08-12EV3 | EPRA08-12EW1

Efficiency data					ETVH + EPRA	12S18E6V/E9W + 08EV/W	12S23E6V/E9W + 08EV/W	12S18E6V/E9W + 10EV/W	12S23E6V/E9W + 10EV/W	12S18E6V/E9W + 12EV/W	12S23E6V/E9W + 12EV/W
Space heating	Average climate water outlet 55 °C	General	SCOP			3.41/3.52		3.43/3.53			
			ηs (Seasonal space heating efficiency)	%		134/138					
			Seasonal space heating eff. class			A++					
	Average climate water outlet 35 °C	General	SCOP			4.69/4.81		4.71/4.84		4.71/4.84	
			ηs (Seasonal space heating efficiency)	%		184/190		186/191		186/191	
			Seasonal space heating eff. class			A+++					
Domestic hot water heating	General	Declared load profile				L	XL	L	XL	L	XL
	Average climate	COPdhw				2.72/2.80	2.96/3.05	2.72/2.80	2.96/3.05	2.72/2.80	2.96/3.05
		ηwh (water heating efficiency)		%		117/120	126/130	117/120	126/130	117/120	126/130
		Water heating energy efficiency class				A+					

Indoor Unit					ETVH	12S18E6V/E9W	12S23E6V/E9W	12S18E6V/E9W	12S23E6V/E9W	12S18E6V/E9W	12S23E6V/E9W
Casing	Colour					White + Black					
	Material					Precoated sheet metal					
Dimensions	Unit		HeightxWidthxDepth	mm		1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625
Weight	Unit			kg		108	117	108	117	108	117
Tank	Water volume			l		180	230	180	230	180	230
	Maximum water temperature			°C		70					
	Maximum water pressure			bar		10					
	Corrosion protection					Pickling					
Operation range	Heating	Ambient	Min.~Max.	°C		-28 ~ 25					
		Water side	Min.~Max.	°C		18 ~ 65					
	Domestic hot water	Ambient	Min.~Max.	°C		-28 ~ 35					
		Water side	Min.~Max.	°C		10 ~ 65					
Sound power level	Nom.			dBA		44					
Sound pressure level	Nom.			dBA		30					

Outdoor Unit				EPRA	08EV3/W1	10EV3/W1	12EV3/W1
Dimensions	Unit	HeightxWidthxDepth	mm		1,003x1,270x533		
Weight	Unit		kg		118		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating	Min.~Max.	°CDB		-28 ~ 25		
	Cooling	Min.~Max.	°CDB		10 ~ 43		
	Domestic hot water	Min.~Max.	°CDB		-28 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge		kg		3.25		
	Charge		TCO2Eq		2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					53		
Sound pressure level (at 1 meter)	Nom.				40.60/41.10		
Power supply	Name/Phase/Frequency/Voltage		Hz/V		V3/1~/50/230 - W1/3~/50/400		
Current	Recommended fuses		A		32/16		

This product contains fluorinated greenhouse gases.

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Daikin Altherma 3 H HT F

Floor standing air to water heat pump for **heating and hot water**

- A combined stainless steel domestic hot water tank of 180 or 230 L and heat pump for easy installation
- Inclusion of all hydraulic components means no third party components are required
- PCB board and hydraulic components are located in the front for easy access
- Integrated back-up heater of 6 or 9 kW





011-1W0353-354
011-1W0357-358
011-1W0361-362

ETVH16E6V7 ETVH16E9W7 EPRA14-18DV37 EPRA14-18DW17

Efficiency data				ETVH + EPRA	16S18E6V7/E9W7 + 14DV7/W7	16S23E6V7/E9W7 + 14DV7/W7	16S18E6V7/E9W7 + 16DV7/W7	16S23E6V7/E9W7 + 16DV7/W7	16S18E6V7/E9W7 + 18DV7/W7	16S23E6V7/E9W7 + 18DV7/W7
Space heating	Average climate water outlet 55 °C	General	SCOP		3.58/3.57					
			ηs (Seasonal space heating efficiency)	%	140					
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.51/4.71					
			ηs (Seasonal space heating efficiency)	%	177/186					
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General	Declared load profile			L					
	Average climate	COPdhw			2.62/2.51	2.61/2.55	2.62/2.51	2.61/2.55	2.62/2.51	2.61/2.55
		ηwh (water heating efficiency)		%	110/106	108/107	110/106	108/107	110/106	108/107
		Water heating energy efficiency class			A					

Indoor Unit				ETVH	16S18E6V7/E9W7	16S23E6V7/E9W7	16S18E6V7/E9W7	16S23E6V7/E9W7	16S18E6V7/E9W7	16S23E6V7/E9W7
Casing	Colour				White + Black					
	Material				Precoated sheet metal					
Dimensions	Unit	HeightxWidthxDepth		mm	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625
Weight	Unit			kg	109	118	109	118	109	118
Tank	Water volume			l	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	15 ~ 70					
	Domestic hot water	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 63					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit				EPRA	14DV37/W17	16DV37/W17	18DV37/W17
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	146/151		
Compressor	Quantity				1		
	Type				Hermetically sealed scroll compressor		
Operation range	Heating		Min.~Max.	°CDB	-28 ~ 25		
	Cooling		Min.~Max.	°CDB	10 ~ 43		
	Domestic hot water		Min.~Max.	°CDB	-28 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	4.20		
	Charge			TCO2Eq	2.84		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					54		
Sound pressure level (at 1 meter)	Nom.				43		48
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230 / W1/3~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 H MT F

Floor standing air to water heat pump for **heating, cooling and hot water**

- A combined stainless steel domestic hot water tank of 180 or 230 L and heat pump for easy installation
- Inclusion of all hydraulic components means no third party components are required
- PCB board and hydraulic components are located in the front for easy access
- Integrated back-up heater of 6 or 9 kW



up to A+++ A+++ ↑ D

A+ A+ ↑ F

65 °C

R-32

011-1W0503
011-1W0504
011-1W0505
011-1W0506
011-1W0507
011-1W0508

ETVX12E6V ETVX12E9W EPRA08-12EV3 EPRA08-12EW1

Efficiency data				ETVX + EPRA	12S18E6V/E9W + 08EV/W	12S23E6V/E9W + 08EV/W	12S18E6V/E9W + 10EV/W	12S23E6V/E9W + 10EV/W	12S18E6V/E9W + 12EV/W	12S23E6V/E9W + 12EV/W
Space heating	Average climate water outlet 55 °C	General	SCOP		3.47/3.59		3.48/3.60			
			ηs (Seasonal space heating efficiency) %		136/141					
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.79/4.95		4.82/4.98			
			ηs (Seasonal space heating efficiency) %		188/195		190/196			
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General	Declared load profile			L					
	Average climate	COPdhw			2.72/2.80	2.96/3.05	2.72/2.80	2.96/3.05	2.72/2.80	2.96/3.05
		ηwh (water heating efficiency) %			117/120	126/130	117/120	126/130	117/120	126/130
		Water heating energy efficiency class			A					

Indoor Unit				ETVX	12S18E6V/D9W	12S23E6V/D9W	12S18E6V/D9W	12S23E6V/D9W	12S18E6V/D9W	12S23E6V/D9W
Casing	Colour				White + Black					
	Material				Precoated sheet metal					
Dimensions	Unit	HeightxWidthxDepth		mm	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625
Weight	Unit			kg	108	117	108	117	108	117
Tank	Water volume			l	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min.~Max.	°C	-28 ~ 25					
		Water side	Min.~Max.	°C	18 ~ 65					
	Cooling	Ambient	Min.~Max.	°C	10 ~ 43					
		Water side	Min.~Max.	°C	5 ~ 22					
	Domestic hot water	Ambient	Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 65					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit				EPRA	08EV3/W1	10EV3/W1	12EV3/W1
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	118		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating		Min.~Max.	°CDB	-28 ~ 25		
	Cooling		Min.~Max.	°CDB	10 ~ 43		
	Domestic hot water		Min.~Max.	°CDB	-28 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					53		
Sound pressure level (at 1 meter)	Nom.				40.60/41.10		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230 - W1/3~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 H HT F

Floor standing air to water heat pump for **heating, cooling and hot water**

- A combined stainless steel domestic hot water tank of 180 or 230 L and heat pump for easy installation
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- Integrated back-up heater of 6 or 9 kW





011-1W0353-354
011-1W0357-358
011-1W0361-362

ETVX16E6V7 ETVX16E9W7 EPRA14-18DV37 EPRA14-18DW17

Efficiency data				ETVX + EPRA	16S18E6V7/E9W7 + 14DV7/W7	16S23E6V7/E9W7 + 14DV7/W7	16S18E6V7/E9W7 + 16DV7/W7	16S23E6V7/E9W7 + 16DV7/W7	16S18E6V7/E9W7 + 18DV7/W7	16S23E6V7/E9W7 + 18DV7/W7
Space heating	Average climate water outlet 55 °C	General	SCOP		3.62/3.63					
			ηs (Seasonal space heating efficiency)	%	142					
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.57/4.81					
			ηs (Seasonal space heating efficiency)	%	180/190					
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COPdhw			2.62/2.51	2.61/2.55	2.62/2.51	2.61/2.55	2.62/2.51	2.61/2.55
		ηwh (water heating efficiency)		%	110/106	108/107	110/106	108/107	110/106	108/107
		Water heating energy efficiency class			A					

Indoor Unit				ETVX	16S18E6V7/ E79W7	16S23E6V7/ E79W7	16S18E6V7/ E79W7	16S23E6V7/ E79W7	16S18E6V7/ E79W7	16S23E6V7/ E79W7
Casing	Colour				White + Black					
	Material				Precoated sheet metal					
Dimensions	Unit	HeightxWidthxDepth		mm	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625
Weight	Unit			kg	109	118	109	118	109	118
Tank	Water volume			l	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	15 ~ 70					
	Cooling	Ambient	Min.~Max.	°C	10 ~ 43					
		Water side	Min.~Max.	°C	5 ~ 22					
	Domestic hot water	Ambient	Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 63					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit				EPRA	14DV37/W17	16DV37/W17	18DV37/W17
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	146/151		
Compressor	Quantity				1		
	Type				Hermetically sealed scroll compressor		
Operation range	Heating		Min.~Max.	°CDB	-28 ~ 25		
	Cooling		Min.~Max.	°CDB	10 ~ 43		
	Domestic hot water		Min.~Max.	°CDB	-28 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	4.20		
	Charge			TCO2Eq	2.84		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					54		
Sound pressure level (at 1 meter)	Nom.				43		48
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230 / W1/3~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

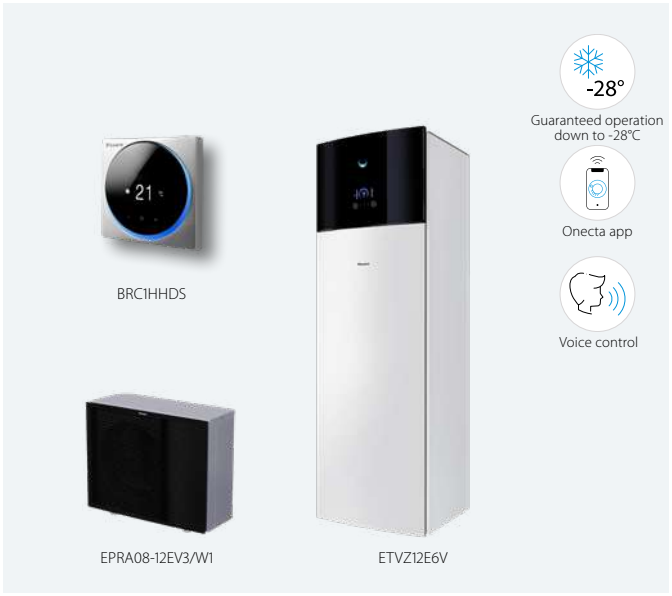
DAIKIN altherma

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Daikin Altherma 3 H MT F

Floor standing integrated with **two different temperature zones monitoring**

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up to A+++ D

A+ F

65 °C

R-32

011-1W0503
011-1W0504
011-1W0505
011-1W0506
011-1W0507
011-1W0508

ETVZ12E6V ETVZ12E9W EPRA08-12EV3 EPRA08-12EW1

Efficiency data				ETVZ + EPRA	12S18E6V/E9W + 08EV/W	12S23E6V/E9W + 08EV/W	12S18E6V/E9W + 10EV/W	12S23E6V/E9W + 10EV/W	12S18E6V/E9W + 12EV/W	12S23E6V/E9W + 12EV/W
Space heating	Average climate water outlet 55 °C	General	SCOP		3.41/3.52		3.43/3.53			
			ηs (Seasonal space heating efficiency)	%	134/138					
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.69/4.82		4.71/4.69		4.71/4.84	
			ηs (Seasonal space heating efficiency)	%	184/190		186/184		186/191	
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General	Declared load profile			L					
	Average climate	COPdhw			2.72/2.80	2.96/3.05	2.72/2.80	2.96/3.05	2.72/2.80	2.96/3.05
		ηwh (water heating efficiency)		%	117/120	126/130	117/120	126/130	117/120	126/130
		Water heating energy efficiency class			A+					

Indoor Unit					ETVZ	12S18E6V/E9W	12S23E6V/E9W	12S18E6V/E9W	12S23E6V/E9W	12S18E6V/E9W	12S23E6V/E9W
Casing	Colour					White + Black					
	Material					Precoated sheet metal					
Dimensions	Unit		HeightxWidthxDepth	mm		1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625
Weight	Unit			kg		114	122	114	122	114	122
Tank	Water volume			l		180	230	180	230	180	230
	Maximum water temperature			°C		70					
	Maximum water pressure			bar		10					
	Corrosion protection					Pickling					
Operation range	Heating	Ambient	Min.~Max.	°C		-28 ~ 25					
		Water side	Min.~Max.	°C		18 ~ 65					
	Domestic hot water	Ambient	Min.~Max.	°C		-28 ~ 35					
		Water side	Min.~Max.	°C		10 ~ 65					
Sound power level	Nom.			dBA		44					
Sound pressure level	Nom.			dBA		30					

Outdoor Unit				EPRA	08EV3/W1	10EV3/W1	12EV3/W1
Dimensions	Unit	HeightxWidthxDepth	mm		1,003x1,270x533		
Weight	Unit		kg		118		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating	Min.~Max.	°CDB		-28 ~ 25		
	Domestic hot water	Min.~Max.	°CDB		-28 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge		kg		3.25		
	Charge		TCO2Eq		2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					53		
Sound pressure level (at 1 meter)	Nom.				40.60/41.10		
Power supply	Name/Phase/Frequency/Voltage		Hz/V		V3/1~/50/230 - W1/3~/50/400		
Current	Recommended fuses		A		32/16		

This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 H HT F

Floor standing integrated with **two different temperature zones monitoring**

- A combined stainless steel domestic hot water tank of 180 or 230 L and heat pump for easy installation
- Inclusion of all hydraulic components means no third party components are required
- PCB board and hydraulic components are located in the front for easy access
- Integrated back-up heater of 6 or 9 kW



up to A+++ ↑ D

A ↑ A+ F

70 °C

R-32

011-1W0353-354
011-1W0357-358
011-1W0361-362

ETVZ16E6V7 ETVZ16E9W7 EPRA14-18DV37 EPRA14-18DW17

Efficiency data				ETVZ + EPRA	16S18E6V7/E9W7 + 14DV7/W7	16S23E6V7/E9W7 + 14DV7/W7	16S18E6V7/E9W7 + 16DV7/W7	16S23E6V7/E9W7 + 16DV7/W7	16S18E6V7/E9W7 + 18DV7/W7	16S23E6V7/E9W7 + 18DV7/W7
Space heating	Average climate water outlet 55 °C	General	SCOP		3.58/3.57					
			ηs (Seasonal space heating efficiency)	%	140					
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.51/4.71					
			ηs (Seasonal space heating efficiency)	%	177/186					
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General		Declared load profile		L	XL	L	XL	L	XL
	Average climate		COPdhw		2.62/2.51	2.61/2.55	2.62/2.51	2.61/2.55	2.62/2.51	2.61/2.55
			ηwh (water heating efficiency)	%	110/106	108/107	110/106	108/107	110/106	108/107
			Water heating energy efficiency class		A					

Indoor Unit				ETVZ	16S18E6V7/ E9W7	16S23E6V7/ E9W7	16S18E6V7/ E9W7	16S23E6V7/ E9W7	16S18E6V7/ E9W7	16S23E6V7/ E9W7
Casing	Colour				White + Black					
	Material				Precoated sheet metal					
Dimensions	Unit		HeightxWidthxDepth	mm	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625
Weight	Unit			kg	120	128	120	128	120	128
Tank	Water volume			l	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	15 ~ 70					
	Domestic hot water	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 63					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

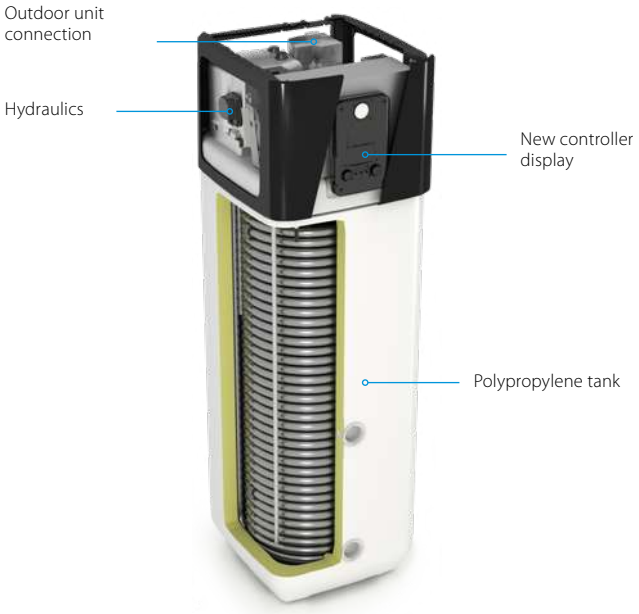
Outdoor Unit				EPRA	14DV37/W17	16DV37/W17	18DV37/W17
Dimensions	Unit		HeightxWidthxDepth	mm	1,003x1,270x533		
Weight	Unit			kg	146/151		
Compressor	Quantity				1		
	Type				Hermetically sealed scroll compressor		
Operation range	Heating		Min.~Max.	°CDB	-28 ~ 25		
	Domestic hot water		Min.~Max.	°CDB	-28 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	4.20		
	Charge			TCO2Eq	2.84		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					54		
Sound pressure level (at 1 meter)	Nom.				43		48
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230 / W1/3~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

Floor standing unit with integrated ECH$_2$O tank

R-32 BLUEVOLUTION

This model is the most compact unit but needs to be with a separate tank to deliver domestic hot water. The ECH$_2$O unit is equipped with a thermal DHW tank of 300 or 500 L that can be connected to thermal solar panels.





Floor standing air-to-water heat pump for heating and hot water with thermal solar suport: ETSH units
Floor standing air-to-water heat pump for bivalent heating and hot water with thermal solar suport: ETSHB units
Floor standing air-to-water heat pump for heating, cooling and hot water with thermal solar suport: ETSX units
Floor standing air-to-water heat pump for bivalent heating, cooling and hot water with thermal solar suport: ETSXB units

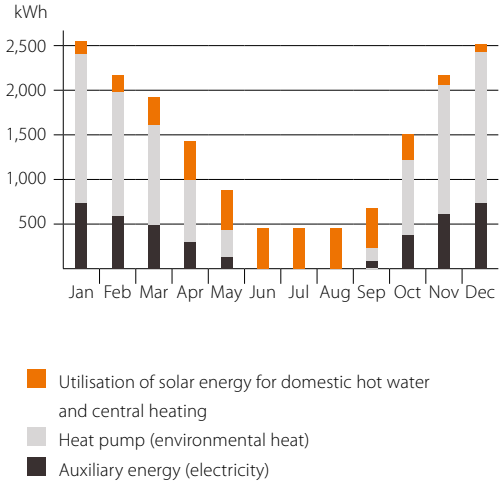
Pressureless (drain-back) solar system (ETSH*, ETSX*)

- The solar collectors are only filled with water when sufficient heating is provided by the sun
- The pumps in the control and pump unit switch on briefly and fill the collectors with storage tank water
- After filling, water circulation is maintained by the remaining pump

Pressurised solar system (ETSHB*, ETSXB*)

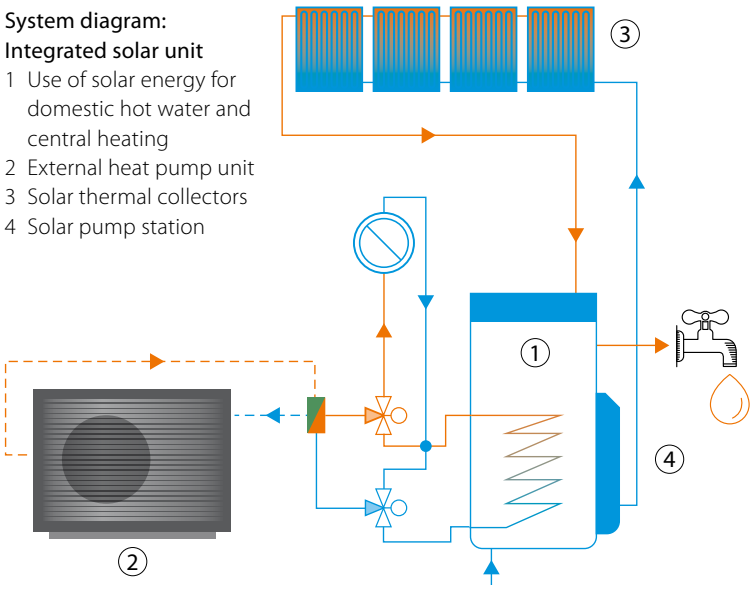
- System is filled with heat transfer fluid with the correct amount of antifreeze to avoid freezing in winter
- System is pressurised and sealed

Monthly energy consumption of an average detached house



System diagram: Integrated solar unit

1 Use of solar energy for domestic hot water and central heating
2 External heat pump unit
3 Solar thermal collectors
4 Solar pump station



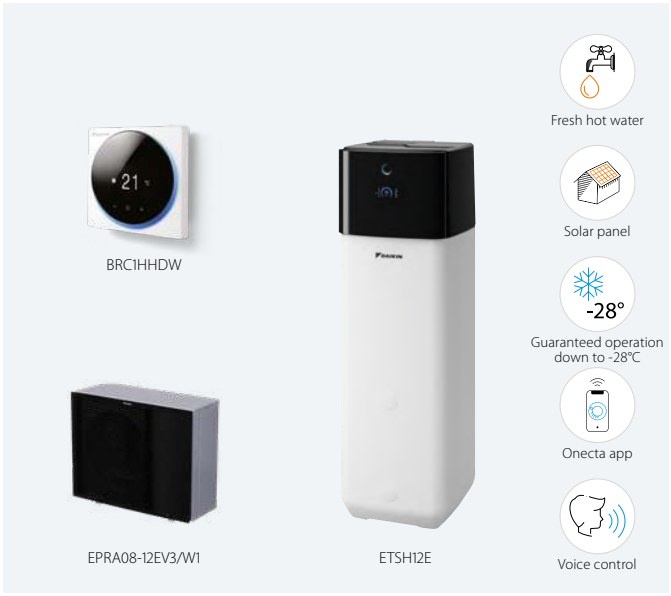
DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 H MT ECH$_2$O

Floor standing air-to-water heat pump for **heating and hot water** with thermal solar support

- Integrated solar unit, offering top comfort in heating and hot water
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- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Solar support of domestic hot water with pressureless (drain-back) solar system



up to A+++ A+++ ↑ D

A+ A+ ↑ F

65 °C

R-32

011-1W0501
011-1W0502

ETSH12E EPRA08-12EV3 EPRA08-12EW1

Efficiency data				ETSH + EPRA	12P30E + 08EV/W	12P50E + 08EV/W	12P30E + 10EV/W	12P50E + 10EV/W	12P30E + 12EV/W	12P50E + 12EV/W
Space heating	Average climate water outlet 55 °C	General	SCOP		3.41/3.52		3.43/3.53			
			ηs (Seasonal space heating efficiency)	%	134/138					
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.69/4.81		4.71/4.84		4.71/4.84	
			ηs (Seasonal space heating efficiency)	%	184/190		186/191		186/191	
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General	Declared load profile			L					
	Average climate	COPdhw			2.75/2.83	3.10/3.17	2.75/2.83	3.10/3.17	2.75/2.83	3.10/3.17
		ηwh (water heating efficiency)		%	116/119	128/131	116/119	128/131	116/119	128/131
		Water heating energy efficiency class			A					

Indoor Unit				ETSH	12P30E	12P50E	12P30E	12P50E	12P30E	12P50E
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth		mm	1,892x594x644	1,910x792x816	1,892x594x644	1,910x792x816	1,892x594x644	1,910x792x816
Weight	Unit			kg	75	98	75	98	75	98
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-28 ~ 25					
		Water side	Min.~Max.	°C	18 ~ 65					
	Domestic hot water	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 63					
Sound power level	Nom.			dBA	47.30					
Sound pressure level	Nom.			dBA	38.60					

Outdoor Unit				EPRA	08EV3/W1	10EV3/W1	12EV3/W1
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	118		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating		Min.~Max.	°CDB	-28 ~ 25		
	Domestic hot water		Min.~Max.	°CDB	-28 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					53		
Sound pressure level (at 1 meter)	Nom.				40.60/41.10		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230 - W1/3~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

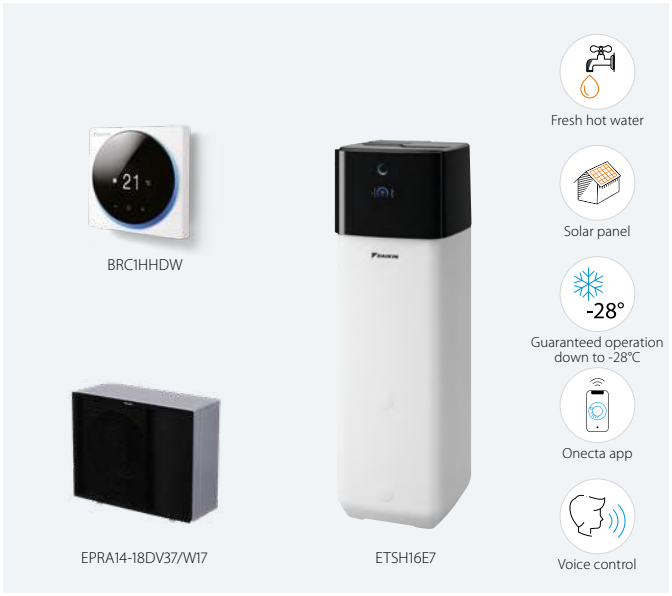
DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 H HT ECH$_2$O

Floor standing air-to-water heat pump for **heating and hot water** with thermal solar support

- Integrated solar unit, offering top comfort in heating and hot water
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Solar support of domestic hot water with pressureless (drain-back) solar system





011-1W0355-356
011-1W0359-360
011-1W0363-364

ETSH16E7 EPRA14-18DV37 EPRA14-18DW17

Efficiency data				ETSH + EPRA	16P30E7 + 14DV7/W7	16P50E7 + 14DV7/W7	16P30E7 + 16DV7/W7	16P50E7 + 16DV7/W7	16P30E7 + 18DV7/W7	16P50E7 + 18DV7/W7
Space heating	Average climate water outlet 55 °C	General	SCOP		3.58/3.57					
			ηs (Seasonal space heating efficiency)	%	140					
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.51/4.71					
			ηs (Seasonal space heating efficiency)	%	177/186					
			Seasonal space heating eff. class		A+++					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COPdhw			2.86/2.85	3.00/2.99	2.86/2.85	3.00/2.99	2.86/2.85	3.00/2.99
		ηwh (water heating efficiency)		%	124	125	124	125	124	125
		Water heating energy efficiency class			A+					

Indoor Unit					ETSH	16P30E7	16P50E7	16P30E7	16P50E7	16P30E7	16P50E7
Casing	Colour					Traffic white (RAL9016) / Dark grey (RAL7011)					
	Material					Impact resistant polypropylene					
Dimensions	Unit		HeightxWidthxDepth	mm		1,892x594x644	1,910x792x816	1,892x594x644	1,910x792x816	1,892x594x644	1,910x792x816
Weight	Unit			kg		75	98	75	98	75	98
Tank	Water volume			l		294	477	294	477	294	477
	Maximum water temperature			°C		85					
Operation range	Heating	Ambient	Min.~Max.	°C		-28 ~ 35					
		Water side	Min.~Max.	°C		15 ~ 70					
	Domestic hot water	Ambient	Min.~Max.	°C		-28 ~ 35					
		Water side	Min.~Max.	°C		10 ~ 63					
Sound power level	Nom.			dBA		45.6					
Sound pressure level	Nom.			dBA		32.8					

Outdoor Unit				EPRA	14DV37/W17	16DV37/W17	18DV37/W17
Dimensions	Unit	HeightxWidthxDepth	mm		1,003x1,270x533		
Weight	Unit		kg		146/151		
Compressor	Quantity				1		
	Type				Hermetically sealed scroll compressor		
Operation range	Heating	Min.~Max.	°CDB		-28 ~ 25		
	Domestic hot water	Min.~Max.	°CDB		-28 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge		kg		4.20		
	Charge		TCO2Eq		2.84		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					54		
Sound pressure level (at 1 meter)	Nom.				43.0		48.0
Power supply	Name/Phase/Frequency/Voltage		Hz/V		V3/1~/50/230 / W1/3~/50/400		
Current	Recommended fuses		A		32/16		

This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 H MT ECH$_2$O

Floor standing air-to-water heat pump for **bivalent heating and hot water** with thermal solar support

- Integrated solar unit, offering top comfort in heating and hot water
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Bivalent system: combinable with a secondary heat source





011-1W0501
011-1W0502

ETSHB12E EPRA08-12EV3 EPRA08-12EW1

Efficiency data				ETSHB + EPRA	12P30E + 08EV/W	12P50E + 08EV/W	12P30E + 10EV/W	12P50E + 10EV/W	12P30E + 12EV/W	12P50E + 12EV/W
Space heating	Average climate water outlet 55 °C	General	SCOP		3.41/3.52		3.43/3.53			
			ηs (Seasonal space heating efficiency)	%	134/138					
			Seasonal space heating eff. class		A					
	Average climate water outlet 35 °C	General	SCOP		4.69/4.81		4.71/4.84		4.71/4.84	
			ηs (Seasonal space heating efficiency)	%	184/190		186/191		186/191	
			Seasonal space heating eff. class		A					
Domestic hot water heating	General	Declared load profile			L					
	Average climate	COPdhw			2.75/2.83	3.10/3.17	2.75/2.83	3.10/3.17	2.75/2.83	3.10/3.17
		ηwh (water heating efficiency)		%	116/119	128/131	116/119	128/131	116/119	128/131
		Water heating energy efficiency class			A					

Indoor Unit				ETSHB	12P30E	12P50E	12P30E	12P50E	12P30E	12P50E
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit		HeightxWidthxDepth	mm	1,892x594x644	1,910x792x816	1,892x594x644	1,910x792x816	1,892x594x644	1,910x792x816
Weight	Unit			kg	76	100	76	100	76	100
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	18 ~ 65					
	Domestic hot water	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 63					
Sound power level	Nom.			dBA	45.6					
Sound pressure level	Nom.			dBA	32.8					

Outdoor Unit				EPRA	08EV3/W1	10EV3/W1	12EV3/W1
Dimensions	Unit		HeightxWidthxDepth	mm	1,003x1,270x533		
Weight	Unit			kg	118		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating		Min.~Max.	°CDB	-28 ~ 25		
	Domestic hot water		Min.~Max.	°CDB	-28 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					53		
Sound pressure level (at 1 meter)	Nom.				40.60/41.10		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230 - W1/3~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

Daikin Altherma 3 H HT ECH$_2$O

Floor standing air-to-water heat pump for **bivalent heating and hot water** with thermal solar support

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- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Bivalent system: combinable with a secondary heat source



up to A+++ D | A+ F | 70 °C | R-32

011-1W0355-356
011-1W0359-360
011-1W0363-364

ETSHB16E7 EPRA14-18DV37 EPRA14-18DW17

Efficiency data				ETSHB + EPRA	16P30E7 + 14DV7/W7	16P50E7 + 14DV7/W7	16P30E7 + 16DV7/W7	16P50E7 + 16DV7/W7	16P30E7 + 18DV7/W7	16P50E7 + 18DV7/W7
Space heating	Average climate water outlet 55 °C	General	SCOP		3.58/3.57					
			ηs (Seasonal space heating efficiency)	%	140					
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.51/4.71					
			ηs (Seasonal space heating efficiency)	%	177/186					
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COPdhw			2.86/2.85	3.00/2.99	2.86/2.85	3.00/2.99	2.86/2.85	3.00/2.99
		ηwh (water heating efficiency)		%	124	125	124	125	124	125
		Water heating energy efficiency class			A					

Indoor Unit				ETSHB	16P30E7	16P50E7	16P30E7	16P50E7	16P30E7	16P50E7
Casing	Colour				Traffic white (RAL9016) / Dark grey (RAL7011)					
	Material				Impact resistant polypropylene					
Dimensions	Unit		HeightxWidthxDepth	mm	1,892x594x644	1,910x792x816	1,892x594x644	1,910x792x816	1,892x594x644	1,910x792x816
Weight	Unit			kg	76	100	76	100	76	100
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	15 ~ 70					
	Domestic hot water	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 63					
Sound power level	Nom.			dBA	45.6					
Sound pressure level	Nom.			dBA	32.8					

Outdoor Unit				EPRA	14DV37/W17	16DV37/W17	18DV37/W17
Dimensions	Unit		HeightxWidthxDepth	mm	1,003x1,270x533		
Weight	Unit			kg	146/151		
Compressor	Quantity				1		
	Type				Hermetically sealed scroll compressor		
Operation range	Heating		Min.~Max.	°CDB	-28 ~ 35		
	Domestic hot water		Min.~Max.	°CDB	-28 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	4.20		
	Charge			TCO2Eq	2.84		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					54		
Sound pressure level (at 1 meter)	Nom.				43.0		48.0
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230 / W1/3~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 H MT ECH$_2$O

Floor standing air-to-water heat pump for **heating, cooling and hot water** with thermal solar support

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- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Solar support of domestic hot water with pressureless (drain-back) solar system





011-1W0501
011-1W0502

ETSX12E EPRA08-12EV3 EPRA08-12EW1

Efficiency data				ETSX + EPRA	12P30E + 08EV/W	12P50E + 08EV/W	12P30E + 10EV/W	12P50E + 10EV/W	12P30E + 12EV/W	12P50E + 12EV/W
Space heating	Average climate water outlet 55 °C	General	SCOP		3.47/3.59		3.48/3.60			
			ηs (Seasonal space heating efficiency)	%	136/141					
			Seasonal space heating eff. class				A+			
	Average climate water outlet 35 °C	General	SCOP		4.79/4.95		4.82/4.98			
			ηs (Seasonal space heating efficiency)	%	189/195		190/196			
			Seasonal space heating eff. class				A+			
Domestic hot water heating	General	Declared load profile			L					
	Average climate	COPdhw			2.75/2.83	3.10/3.17	2.75/2.83	3.10/3.17	2.75/2.83	3.10/3.17
		ηwh (water heating efficiency)		%	116/119	128/131	116/119	128/131	116/119	128/131
		Water heating energy efficiency class					A+			

Indoor Unit				ETSX	12P30E	12P50E	12P30E	12P50E	12P30E	12P50E
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth		mm	1,892x594x644	1,910x792x816	1,892x594x644	1,910x792x816	1,892x594x644	1,910x792x816
Weight	Unit			kg	75	98	75	98	75	98
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-28 ~ 25					
		Water side	Min.~Max.	°C	18 ~ 65					
	Cooling	Ambient	Min.~Max.	°C	10 ~ 43					
		Water side	Min.~Max.	°C	5 ~ 22					
	Domestic hot water	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 63					
Sound power level	Nom.			dBA	47.30					
Sound pressure level	Nom.			dBA	38.60					

Outdoor Unit				EPRA	08EV3/W1	10EV3/W1	12EV3/W1
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	118		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating	Min.~Max.		°CDB	-28 ~ 25		
	Cooling	Min.~Max.		°CDB	10 ~ 43		
	Domestic hot water	Min.~Max.		°CDB	-28 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					53		
Sound pressure level (at 1 meter)	Nom.				40.60/41.10		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230 - W1/3~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 H HT ECH$_2$O

Floor standing air-to-water heat pump for **heating, cooling and hot water** with thermal solar support

- Integrated solar unit, offering top comfort in heating, hot water and cooling
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Solar support of domestic hot water with pressureless (drain-back) solar system



up to A+++ D | A+ F | 70 °C | R-32

011-1W0355-356
011-1W0359-360
011-1W0363-364

ETSX16E7 EPRA14-18DV37 EPRA14-18DW17

Efficiency data				ETSX + EPRA	16P30E7 + 14DV7/W7	16P50E7 + 14DV7/W7	16P30E7 + 16DV7/W7	16P50E7 + 16DV7/W7	16P30E7 + 18DV7/W7	16P50E7 + 18DV7/W7
Space heating	Average climate water outlet 55 °C	General	SCOP		3.62/3.63					
			ηs (Seasonal space heating efficiency)	%	142					
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.57/4.81					
			ηs (Seasonal space heating efficiency)	%	180/190					
			Seasonal space heating eff. class		A+++					
Domestic hot water heating	General		Declared load profile		L	XL	L	XL	L	XL
	Average climate		COPdhw		2.86/2.85	3.00/2.99	2.86/2.85	3.00/2.99	2.86/2.85	3.00/2.99
			ηwh (water heating efficiency)	%	124	125	124	125	124	125
			Water heating energy efficiency class		A+					

Indoor Unit				ETSX	16P30E7	16P50E7	16P30E7	16P50E7	16P30E7	16P50E7
Casing	Colour				Traffic white (RAL9016) / Dark grey (RAL7011)					
	Material				Impact resistant polypropylene					
Dimensions	Unit		HeightxWidthxDepth	mm	1,892x594x644	1,910x792x816	1,892x594x644	1,910x792x816	1,892x594x644	1,910x792x816
Weight	Unit			kg	75	98	75	98	75	98
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	15 ~ 70					
	Cooling	Ambient	Min.~Max.	°C	10 ~ 43					
		Water side	Min.~Max.	°C	5 ~ 22					
	Domestic hot water	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 63					
Sound power level	Nom.			dBA	45.6					
Sound pressure level	Nom.			dBA	32.8					

Outdoor Unit				EPRA	14DV37/W17	16DV37/W17	18DV37/W17
Dimensions	Unit		HeightxWidthxDepth	mm	1,003x1,270x533		
Weight	Unit			kg	146/151		
Compressor	Quantity				1		
	Type				Hermetically sealed scroll compressor		
Operation range	Heating		Min.~Max.	°CDB	-28 ~ 25		
	Cooling		Min.~Max.	°CDB	10 ~ 43		
	Domestic hot water		Min.~Max.	°CDB	-28 ~35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	4.20		
	Charge			TCO2Eq	2.84		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					54		
Sound pressure level (at 1 meter)	Nom.				43.0		48.0
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230 / W1/3~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 H MT ECH$_2$O

Floor standing air-to-water heat pump for **bivalent heating, cooling and hot water** with thermal solar support

- Integrated solar unit, offering top comfort in heating and hot water
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Bivalent system: combinable with a secondary heat source



up to A+++ D

A+ F

65 °C

R-32

011-1W0501
011-1W0502

ETSXB12E EPRA08-12EV3 EPRA08-12EW1

Efficiency data				ETSXB + EPRA	12P30E + 08EV/W	12P50E + 08EV/W	12P30E + 10EV/W	12P50E + 10EV/W	12P30E + 12EV/W	12P50E + 12EV/W
Space heating	Average climate water outlet 55 °C	General	SCOP		3.47/3.59		3.48/3.60			
			ηs (Seasonal space heating efficiency)	%	136/141					
			Seasonal space heating eff. class							
	Average climate water outlet 35 °C	General	SCOP		4.79/4.95		4.82/4.98			
			ηs (Seasonal space heating efficiency)	%	189/195		190/196			
			Seasonal space heating eff. class							
Domestic hot water heating	General	Declared load profile			L					
	Average climate	COPdhw			2.75/2.83	3.10/3.17	2.75/2.83	3.10/3.17	2.75/2.83	3.10/3.17
		ηwh (water heating efficiency)		%	116/119	128/131	116/119	128/131	116/119	128/131
		Water heating energy efficiency class								

Indoor Unit				ETSXB	12P30E	12P50E	12P30E	12P50E	12P30E	12P50E
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit		HeightxWidthxDepth	mm	1,892x594x644	1,910x792x816	1,892x594x644	1,910x792x816	1,892x594x644	1,910x792x816
Weight	Unit			kg	76	100	76	100	76	100
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-28 ~ 25					
		Water side	Min.~Max.	°C	18 ~ 65					
	Cooling	Ambient	Min.~Max.	°C	10 ~ 43					
		Water side	Min.~Max.	°C	5 ~ 22					
	Domestic hot water	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 63					
Sound power level	Nom.			dBA	47.30					
Sound pressure level	Nom.			dBA	38.60					

Outdoor Unit				EPRA	08EV3/W1	10EV3/W1	12EV3/W1
Dimensions	Unit		HeightxWidthxDepth	mm	1,003x1,270x533		
Weight	Unit			kg	118		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating		Min.~Max.	°CDB	-28 ~ 25		
	Cooling		Min.~Max.	°CDB	10 ~ 43		
	Domestic hot water		Min.~Max.	°CDB	-28 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					53		
Sound pressure level (at 1 meter)	Nom.				40.60/41.10		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230 - W1/3~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

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BLUEVOLUTION

Daikin Altherma 3 H HT ECH$_2$O

Floor standing air-to-water heat pump for **bivalent heating, cooling and hot water** with thermal solar support

- Integrated solar unit, offering top comfort in heating and hot water
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Bivalent system: combinable with a secondary heat source



up to A+++ D | A+ F | 70 °C | R-32

011-1W0355-356
011-1W0359-360
011-1W0363-364

ETSXB16E7 EPRA14-18DV37 EPRA14-18DW17

Efficiency data				ETSXB + EPRA	16P30E7 + 14DV7/W7	16P50E7 + 14DV7/W7	16P30E7 + 16DV7/W7	16P50E7 + 16DV7/W7	16P30E7 + 18DV7/W7	16P50E7 + 18DV7/W7
Space heating	Average climate water outlet 55 °C	General	SCOP		3.62/3.63					
			ηs (Seasonal space heating efficiency)	%	142					
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.57/4.81					
			ηs (Seasonal space heating efficiency)	%	180/190					
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General		Declared load profile		L	XL	L	XL	L	XL
	Average climate		COPdhw		2.86/2.85	3.00/2.99	2.86/2.85	3.00/2.99	2.86/2.85	3.00/2.99
			ηwh (water heating efficiency)	%	124	125	124	125	124	125
			Water heating energy efficiency class		A					

Indoor Unit				ETSXB	16P30E7	16P50E7	16P30E7	16P50E7	16P30E7	16P50E7
Casing	Colour				Traffic white (RAL9016) / Dark grey (RAL7011)					
	Material				Impact resistant polypropylene					
Dimensions	Unit		HeightxWidthxDepth	mm	1,892x594x644	1,910x792x816	1,892x594x644	1,910x792x816	1,892x594x644	1,910x792x816
Weight	Unit			kg	76	100	76	100	76	100
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	15 ~ 70					
	Cooling	Ambient	Min.~Max.	°C	10 ~ 43					
		Water side	Min.~Max.	°C	5 ~ 22					
	Domestic hot water	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 63					
Sound power level	Nom.			dBA	45.6					
Sound pressure level	Nom.			dBA	32.8					

Outdoor Unit				EPRA	14DV37/W17	16DV37/W17	18DV37/W17
Dimensions	Unit		HeightxWidthxDepth	mm	1,003x1,270x533		
Weight	Unit			kg	146/151		
Compressor	Quantity				1		
	Type				Hermetically sealed scroll compressor		
Operation range	Heating		Min.~Max.	°CDB	-28 ~ 25		
	Cooling		Min.~Max.	°CDB	10 ~ 43		
	Domestic hot water		Min.~Max.	°CDB	-28 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	4.20		
	Charge			TCO2Eq	2.84		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					54		
Sound pressure level (at 1 meter)	Nom.				43.0		48.0
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230 / W1/3~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

DESIGN AWARD 2018

reddot award 2018 winner

R-32

BLUEVOLUTION

Wall mounted unit

This model is the most compact unit for heating and cooling with high flexibility for a quick and easy installation, with an optional connection to domestic hot water.





Wall mounted heating only air-to-water heat pump: ETBH units
Wall mounted reversible air-to-water heat pump: ETBX units



DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 H MT W

Wall mounted **heating only** air-to-water heat pump

- Inclusion of all hydraulic components means no third party components are required
- PCB board and hydraulic components are located in the front for easy access
- Compact dimensions allows for small installation space, as almost no side clearances are required
- The unit's sleek design blends in with other household appliances
- Combine with a stainless steel tank or ECH$_2$O thermal store



up to A+++ (A+++ to D)

65 °C

R-32

011-1W0506
011-1W0507
011-1W0508

ETBH12E6V ETBH12E9W EPRA08-12EV3 EPRA08-12EW1

Efficiency data				ETBH + EPRA	12E6V + 08EV/W	12E9W + 08EV/W	12E6V + 10EV/W	12E9W + 10EV/W	12E6V + 12EV/W	12E9W + 12EV/W
Space heating	Average climate water outlet 55 °C	General	SCOP		3.41/3.52		3.43/3.53			
			ηs (Seasonal space heating efficiency)	%	134/138					
			Seasonal space heating eff. class							
	Average climate water outlet 35 °C	General	SCOP		4.69/4.81		4.71/4.84		4.71/4.84	
			ηs (Seasonal space heating efficiency)	%	184/190		186/191		186/191	
			Seasonal space heating eff. class							

Indoor Unit				ETBH	12E6V	12E9W	12E6V	12E9W	12E6V	12E9W
Casing	Colour				White + Black					
	Material				Sheet metal					
Dimensions	Unit		HeightxWidthxDepth	mm	840x440x390					
Weight	Unit			kg	36.50					
Operation range	Heating	Ambient	Min.~Max.	°C	-28 ~ 25					
		Water side	Min.~Max.	°C	18 ~ 65					
	Domestic hot water	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 63					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit			EPRA	08EV3/W1	10EV3/W1	12EV3/W1
Dimensions	Unit	HeightxWidthxDepth	mm	1,003x1,270x533		
Weight	Unit		kg	118		
Compressor	Quantity			1		
	Type			Hermetically sealed swing compressor		
Operation range	Heating	Min.~Max.	°CDB	-28 ~ 25		
	Domestic hot water	Min.~Max.	°CDB	-28 ~ 35		
Refrigerant	Type			R-32		
	GWP			675		
	Charge		kg	3.25		
	Charge		TCO2Eq	2.19		
	Control			Expansion valve		
LW(A) Sound power level (according to EN14825)				53		
Sound pressure level (at 1 meter)	Nom.			40.60/41.10		
Power supply	Name/Phase/Frequency/Voltage		Hz/V	V3/1~/50/230 - W1/3~/50/400		
Current	Recommended fuses		A	32/16		

This product contains fluorinated greenhouse gases.

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BLUEVOLUTION

Daikin Altherma 3 H HT W

Wall mounted **heating only** air-to-water heat pump

- Inclusion of all hydraulic components means no third party components are required
- PCB board and hydraulic components are located in the front for easy access
- Compact dimensions allows for small installation space, as almost no side clearances are required
- The unit's sleek design blends in with other household appliances
- Combine with a stainless steel tank or ECH$_2$O thermal store



up to A+++ A+++ ↑ D

70 °C

R-32

011-1W0353
011-1W0357
011-1W0361

ETBH16E6V7 ETBH16E9W7 EPRA14-18DV37 EPRA14-18DW17

Efficiency data				ETBH + EPRA	16E6V7 + 14DV7/DW7	16E9W7 + 14DV7/DW7	16E6V7 + 16DV7/W7	16E9W7 + 16DV7/W7	16E6V7 + 18DV7/DW7	16E9W7 + 18DV7/DW7
Space heating	Average climate water outlet 55 °C	General	SCOP		3.58/3.57					
			ηs (Seasonal space heating efficiency)	%	140					
			Seasonal space heating eff. class		A+++					
	Average climate water outlet 35 °C	General	SCOP		4.51/4.71					
			ηs (Seasonal space heating efficiency)	%	177/186					
			Seasonal space heating eff. class		A+++					

Indoor Unit				ETBH	16E6V7	16E9W7	16E6V7	16E9W7	16E6V7	16E9W7
Casing	Colour				White + Black					
	Material				Sheet metal					
Dimensions	Unit		HeightxWidthxDepth	mm	840x440x390					
Weight	Unit			kg	42					
Operation range	Heating	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	18 ~ 70					
	Domestic hot water	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 63					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

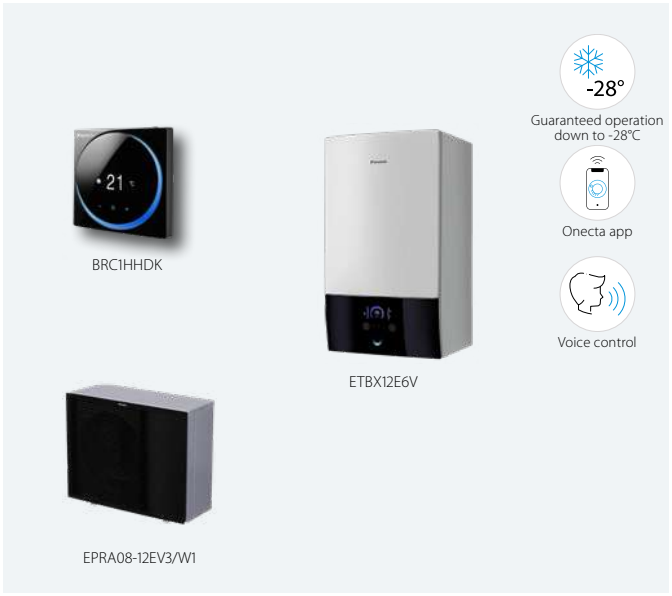
Outdoor Unit				EPRA	14DV37/W17	16DV37/W17	18DV37/W17
Dimensions	Unit		HeightxWidthxDepth	mm	1,003x1,270x533		
Weight	Unit			kg	146/151		
Compressor	Quantity				1		
	Type				Hermetically sealed scroll compressor		
Operation range	Heating		Min.~Max.	°CDB	-28 ~ 35		
	Domestic hot water		Min.~Max.	°CDB	-28 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	4.20		
	Charge			TCO2Eq	2.84		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					54		
Sound pressure level (at 1 meter)	Nom.				43		48
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230 / W1/3~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

Daikin Altherma 3 H MT W

Wall mounted **reversible** air-to-water heat pump

- Inclusion of all hydraulic components means no third party components are required
- PCB board and hydraulic components are located in the front for easy access
- Compact dimensions allows for small installation space, as almost no side clearances are required
- The unit's sleek design blends in with other household appliances
- Combine with a stainless steel tank or ECH$_2$O thermal store



up to A+++ / A+++ D

65 °C

R-32

011-1W0506
011-1W0507
011-1W0508

ETBX12E6V | ETBX12E9W | EPRA08-12EV3 | EPRA08-12EW1

Efficiency data				ETBX + EPRA	12E6V + 08EV/W	12E9W + 08EV/W	12E6V + 10EV/W	12E9W + 10EV/W	12E6V + 12EV/W	12E9W + 12EV/W
Space heating	Average climate water outlet 55 °C	General	SCOP		3.47/3.59		3.48/3.60			
			ηs (Seasonal space heating efficiency)	%	136/141					
			Seasonal space heating eff. class		A+++					
	Average climate water outlet 35 °C	General	SCOP		4.79/4.95		4.82/4.98			
			ηs (Seasonal space heating efficiency)	%	188/195		190/196			
			Seasonal space heating eff. class		A+++					

Indoor Unit				ETBX	12E6V	12E9W	12E6V	12E9W	12E6V	12E9W
Casing	Colour				White + Black					
	Material				Sheet metal					
Dimensions	Unit		HeightxWidthxDepth	mm	840x440x390					
Weight	Unit			kg	36.50					
Operation range	Heating	Ambient	Min.~Max.	°C	-28 ~ 25					
		Water side	Min.~Max.	°C	18 ~ 65					
	Cooling	Ambient	Min.~Max.	°C	10 ~ 43					
		Water side	Min.~Max.	°C	5 ~ 22					
	Domestic hot water	Ambient	Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 63					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit			EPRA	08EV3/W1	10EV3/W1	12EV3/W1
Dimensions	Unit	HeightxWidthxDepth	mm	1,003x1,270x533		
Weight	Unit		kg	118		
Compressor	Quantity			1		
	Type			Hermetically sealed swing compressor		
Operation range	Heating	Min.~Max.	°CDB	-28 ~ 25		
	Cooling	Min.~Max.	°CDB	10 ~ 43		
	Domestic hot water	Min.~Max.	°CDB	-28 ~ 35		
Refrigerant	Type			R-32		
	GWP			675		
	Charge		kg	3.25		
	Charge		TCO2Eq	2.19		
	Control			Expansion valve		
LW(A) Sound power level (according to EN14825)				53		
Sound pressure level (at 1 meter)	Nom.			40.60/41.10		
Power supply	Name/Phase/Frequency/Voltage		Hz/V	V3/1~/50/230 - W1/3~/50/400		
Current	Recommended fuses		A	32/16		

This product contains fluorinated greenhouse gases.

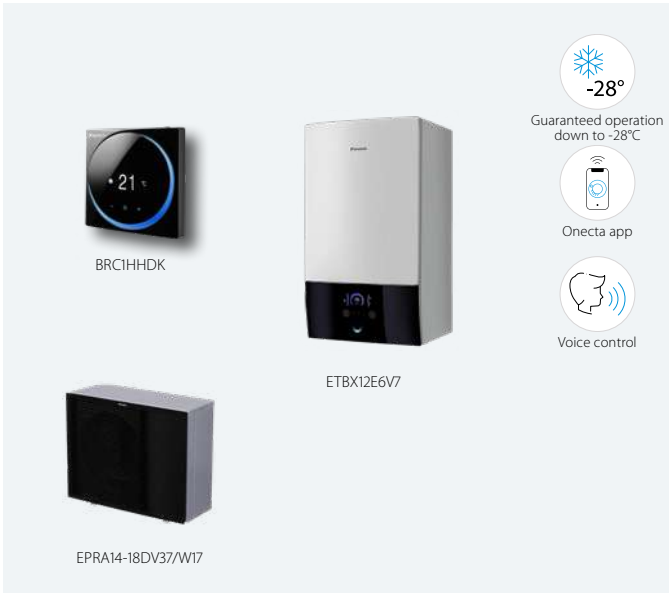
DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 H HT W

Wall mounted **reversible** air-to-water heat pump

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- PCB board and hydraulic components are located in the front for easy access
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- Combine with a stainless steel tank or ECH$_2$O thermal store



up to A+++ (A+++ to D)

70 °C

R-32

011-1W0353
011-1W0357
011-1W0361

ETBX16E6V ETBX16E9W EPRA14-18DV37 EPRA14-18DW17

Efficiency data				ETBX + EPRA	16E6V7 + 14DV7/W7	16E9W7 + 14DV7/W7	16E6V7 + 16DV7/W7	16E9W7 + 16DV7/W7	16E6V7 + 18DV7/W7	16E9W7 + 18DV7/W7
Space heating	Average climate water outlet 55 °C	General	SCOP		3.62/3.63					
			ηs (Seasonal space heating efficiency)	%	142					
			Seasonal space heating eff. class		A++					
	Average climate water outlet 35 °C	General	SCOP		4.57/4.81					
			ηs (Seasonal space heating efficiency)	%	180/190					
			Seasonal space heating eff. class		A+++					

Indoor Unit				ETBX	16E6V7	16E9W7	16E6V7	16E9W7	16E6V7	16E9W7
Casing	Colour				White + Black					
	Material				Sheet metal					
Dimensions	Unit		HeightxWidthxDepth	mm	840x440x390					
Weight	Unit			kg	42					
Operation range	Heating	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	18 ~ 70					
	Cooling	Ambient	Min.~Max.	°C	10 ~ 43					
		Water side	Min.~Max.	°C	5 ~ 22					
	Domestic hot water	Ambient	Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 63					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit				EPRA	14DV37/W17	16DV37/W17	18DV37/W17
Dimensions	Unit		HeightxWidthxDepth	mm	1,003x1,270x533		
Weight	Unit			kg	146/151		
Compressor	Quantity				1		
	Type				Hermetically sealed scroll compressor		
Operation range	Heating		Min.~Max.	°CDB	-28 ~ 25		
	Cooling		Min.~Max.	°CDB	10 ~ 43		
	Domestic hot water		Min.~Max.	°CDB	-28 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	4.20		
	Charge			TCO2Eq	2.84		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					54		
Sound pressure level (at 1 meter)	Nom.				43		48
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230 / W1/3~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

Combination table and options

			H/O	
			3 H MT	3 H HT
			ETVH12S18E6V	ETVH16S18E6V7
			ETVH12S18E9W	ETVH16S18E9W7
			ETVH12S23E6V	ETVH16S23E6V7
Type	**Description**	**Material name**	**ETVH12S23E9W**	**ETVH16S23E9W7**
Outdoor unit		EPRA08EV3/W1	•	
		EPRA10EV3/W1	•	
		EPRA12EV3/W1	•	
		EPRA14DV37/W17		•
		EPRA16DV37/W17		•
		EPRA18DV37/W17		•
Controller	Madoka wired room thermostat	BRC1HHDK/S/W(7)	•	•
	Wireless room thermostat	EKRTRB	•	•
	Wired digital thermostat	EKRTWA	•	•
	Wireless room by room control	Daikin Home Controls (page 288)	•	•
	LAN Adapter	BRP069A62 (with MMI from v6.8.0)	•	•
	WLAN module	BRP069A71	•	•
	WLAN cartridge	BRP069A78	• (1)	• (1)
	Wired digital thermostat	EKWCTRDI1V3	•	•
	Wired analog thermostat	EKWCTRAN1V3	•	•
	Valve actuator	EKWCVATR1V3	•	•
	Wired underfloor heating base station	EKWUFHTA1V3	•	•
	Universal centralised controller	EKCC9-W, DCOM-LT/IO, LT/MB	•	•
Domestic hot water	Stainless steel tank	EKHWS(P)(U)150D3V3		
		EKHWS(P)(U)180D3V3		
		EKHWS(P)(U)200D3V3		
		EKHWS(P)(U)250D3V3		
		EKHWS(P)(U)300D3V3		
	Polypropylene tank	EKHWP300B		
		EKHWP500B		
		EKHWP300PB		
		EKHWP500PB		
	Third party tank kit	EKHY3PART		
		EKHY3PART2		
Sensors	External sensor for EKRTR room thermostat	EKRTETS	•	•
	High voltage smart grid relay kit	EKRELSG	•	•
	Remote indoor temperature sensor	KRCS01-1	• (6)	• (6)
	Remote outdoor temperature sensor	EKRSCA1	• (6)	• (6)
Bizone kits	Generic Bizone kit (PCB only)	EKMIKPOA	•	•
	Generic Bizone kit	EKMIKPHA	•	•
Other options	Digital I/O PCB	EKRP1HBA	• (7)	• (7)
	Demand PCB	EKRP1AHT	•	•
	PC USB cable	EKPCCAB4	•	•
	Conversion kit H/O to reversible for floor standing	EKHVCONV4		•
	Conversion kit H/O to reversible for wall mounted	EKHBCONV	•	
	Booster heater kit	EKBH3SD		
	Anti-freeze valve with diam. 1"	AFVALVE1	•	•
	Anti-freeze valve with diam. 1 1/4"	AFVALVE125	•	•
	Balancing valve	KBLNVALVE		•
	Decoupler	KDECOUP		•
ECH$_2$O options	Inline BUH - connection kit	EKECBUCO1AF		
	Inline BUH - 3kW, for *3V (1N~, 230 V, 3 kW)	EKECBUAF3V		
	Inline BUH - 6kW, for *6V (1N~, 230 V, 6 kW)	EKECBUAF6V		
	Inline BUH - 9kW, for *9WN (3N~, 400 V, 9 kW)	EKECBUAF9W		
	Caleffi sludge and magnetite separator SAS1	156021		
	Biv Connector Kit	EKECBIVCO1AF		
	DB connector Kit	EKECDBCO1AF		

(1) W-LAN cartridge is supplied in the accessory bag of the unit => To be plugged in the SD-Slot on MMI-2 (In case bad reception of signal, the W-LAN cartridge can be removed and replaced by WLAN module).
(2) Dedicated connection kit: EKEPRHLT3HX.
(3) Dedicated connection kit: ETBH: EKEPRHLT5H / ETBX: EKEPRHLT5X.
(4) EKHY3PART can be used if you have a tank in which you can insert the thermistor.
(5) EKHY3PART2 can be used if you have a tank in which you can't insert a thermistor.

Floor standing integrated stainless steel tank				Floor standing integrated ECH_2O		Wall mounted			
Reversible		Bizone				H/O		Reversible	
3 H MT	3 H HT	3 H MT	3 H HT	3 H MT	3 H HT	3 H MT	3 H HT	3 H MT	3 H HT
ETVX12S18E6V	ETVX16S18E6V7	ETVZ12S18E6V	ETVZ16S18E6V7	ETSH(B)12P30E	ETSH(B)16P30E				
ETVX12S18E9W	ETVX16S18E9W7	ETVZ12S18E9W	ETVZ16S18E9W7	ETSH(B)12P50E	ETSH(B)16P50E				
ETVX12S23E6V	ETVX16S23E6V7	ETVZ12S23E6V	ETVZ16S23E6V7	ETSX(B)12P30E	ETSX(B)16P30E	ETBH12E6V	ETBH16E6V7	ETBX12E6V	ETBX16E6V7
ETVX12S23E9W	ETVX16S23E9W7	ETVZ12S23E9W	ETVZ16S23E9W7	ETSX(B)12P50E	ETSX(B)16P50E	ETBH12E9W	ETBH16E9W7	ETBX12E9W	ETBX16E9W7
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						• (2)	• (2)	• (2)	• (2)
						• (3)	• (3)	• (3)	• (3)
						• (2)	• (2)	• (2)	• (2)
						• (3)	• (3)	• (3)	• (3)
						• (4)	• (4)	• (4)	• (4)
						• (5)	• (5)	• (5)	• (5)
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•	•	•	•	•	•	•	•	•	•
• (6)	• (6)	• (6)	• (6)	• (6)	• (6)	• (6)	• (6)	• (6)	• (6)
• (6)	• (6)	• (6)	• (6)	• (6)	• (6)	• (6)	• (6)	• (6)	• (6)
•	•			•	•	•	•	•	•
•				•	•	•		•	
• (7)	• (7)	• (7)	• (7)			• (7)	• (7)	• (7)	• (7)
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				• (8)	• (8)				
				• (8)	• (8)				
				• (8)	• (8)				
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				•	•				

(6) Only one sensor can be connected: indoor or outdoor.
(7) Additional relays to allow bivalent control in combination with external room thermostat are field supply.
(8) Only 1 Backup heater can be connected on one unit: 3 or 6* or 9 kW
(*No 6T1-model applicable). EKECBUCO1AF is needed to connect the backup heater to the main unit.

Daikin Altherma 3 R MT

The ideal boiler replacement gets extended

Ideal to replace gas boilers

Houses built in the 90s often need a refurbishment to still look up-to-date.

In a renovation project, this is also important to consider changing your initial heating system.

Daikin Altherma 3 R MT come as a perfect replacement in such houses, where a leaving water temperature of 65 °C is sufficient. Easy to install, you can even leave the recent radiators installed!

Suitable for medium sized new buildings

With a capacity range going from 8 to 12 class, Daikin Altherma 3 R MT also fit in medium sized new buildings.





Daikin Altherma 3 R MT offers multiple possibilities to adapt to your customers needs

- A leaving water temperature up to 65 °C makes it **a suitable choice for refurbishments**
- **Best seasonal efficiencies** providing the highest savings on running costs
- Perfect fit for **new buildings,** as well as for low energy houses



Refrigerant split version

Daikin Altherma 3 range presents a new addition to the family – refrigerant split version for medium temperature heat pump.

Daikin Altherma 3 R MT relies on a compressor and a refrigerant to transfer the energy from the air to the water. The Refrigerant split unit provides cooling next to heating and domestic hot water.

Better fit with hydrosplit versions?

The Daikin Altherma 3 solutions for replacment do come also in hydrosplit versions, 3 H MT and 3 H HT. More information can be found here:

The Quintessence of heat pump

meeting modern society's expectations



Made in Europe, for Europe

European weather can be tough sometimes. That's why we designed the Daikin Altherma 3 R MT.

Heating capacities are also maintained high by low ambient temperature thanks to genuine Daikin technology.

As the market leader, Daikin is always striving to make the most reliable and efficient heat pumps possible. Daikin developed the Bluevolution technology to achieve higher and greener performance. This technology is now part of all our heat pumps. Its single fan reduces the noise level and its black front grille makes the unit fit into any environment.

All these dedicated components were developed in-house to make the quintessence of heat pump unique.

Superior performance, renewable energy use, design and acoustic comfort. This is what the Quintessence of heat pump is all about.

BLUEVOLUTION

The Bluevolution technology combines a specifically developed compressor and the R-32 refrigerant. Daikin is one of the pioneers in the world to launch heat pumps equipped with R-32. With a lower Global Warming Potential (GWP), the R-32 is equivalent in power to standard refrigerants, but achieves higher energy efficiency and lower CO_2 emissions.

Easy to recover and re-use, R-32 is the perfect solution to attain the new European CO_2 emission targets.

R-32

Timeless design and space-saving installation

Aside from the acoustic comfort, design is a decisive point nowadays. Specific attention was paid to making the outdoor unit blend in with your home.

The black front grille stretches horizontally making the fan inside invisible.
The mat grey casing reflects the colour of the wall behind for more discretion.
When first launched, this unit received two design awards in 2019. This award winning design has been continued in the new models.





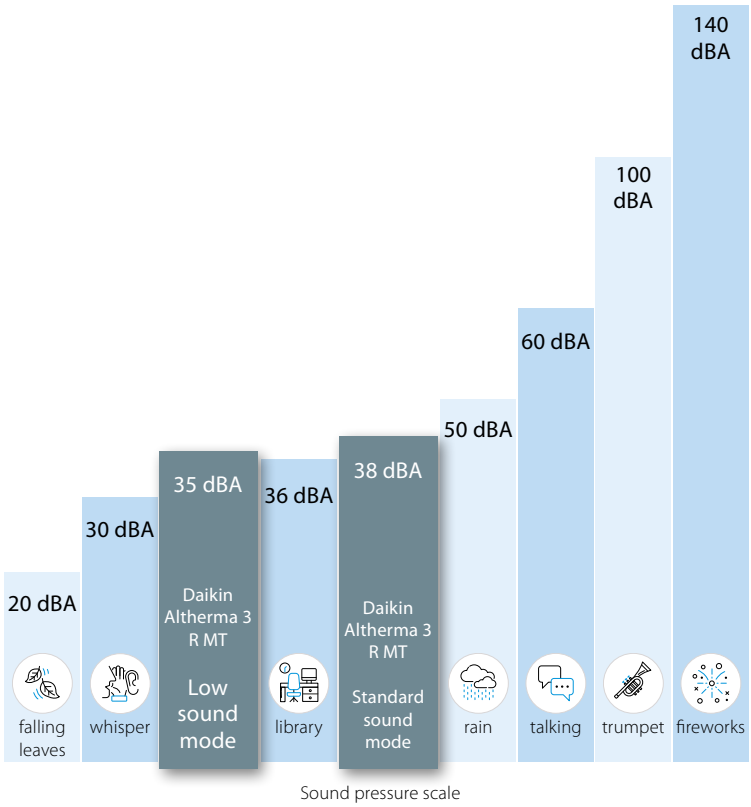


Silence rhymes with comfort

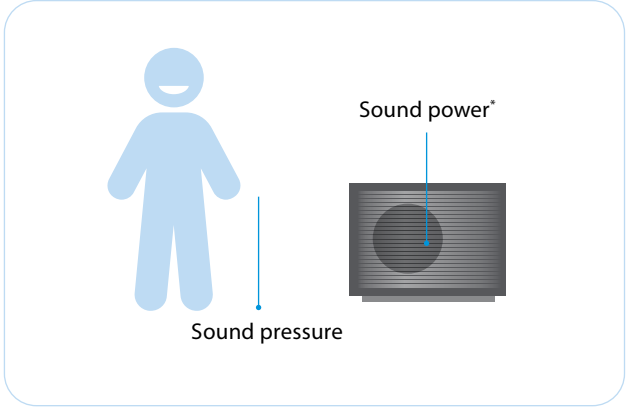
The Quintessence of heat pump has been designed to reduce its acoustic level and meet the expectations of today's society.

In standard sound mode, the unit produces a sound pressure of 38 dBA at 3 metres, so somewhere between birds chirping and the inside of a library.

The unit also offers greater flexibility by having a low sound mode that reduces the sound pressure at 3 metres to 35 dBA, representing a real reduction of half the sound level!



Sound pressure scale



The acoustic level can be evaluated in two ways

- The **sound power** is generated by the unit itself, independently of distance and environment
- The **sound pressure** is the sound perceived at a certain distance. The sound pressure is usually calculated at between 1 and 5 metres from the unit.

* Erp sound power: Daikin Altherma 3 R MT: 56 dBA



Innovation
at the heart of our concerns

The Daikin Altherma 3 R MT is at top of low sound and heating performances thanks to dedicated developments. Several major components are designed to make this product reach the excellence such as a double injection compressor and a single fan even for large capacity units as well as a brand-new casing.

A contemporary design casing
The black front grille made of horizontal lines is hiding the fan from view, reducing the perception of the sound produced by the unit.

The light grey casing is sligthly reflecting the environment where the unit is installed, helping it to blend in in any decor.

This unique design already got design awards.

DESIGN AWARD 2019

reddot design award
winner 2019



A single fan for all capacities
The single fan is slightly larger, replacing the usual double fan for high capacity units (classes 8-10-12).

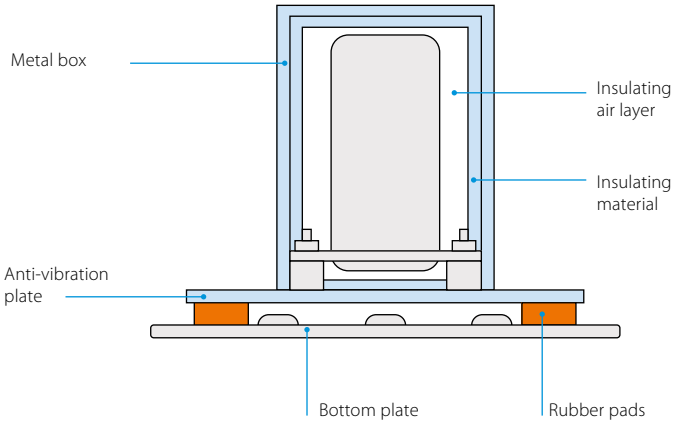
The shape of the fan has also been reviewed to reduce the contact surface with air therefore lower the sound level by improving the air circulation.

Compressor insulation and anti-vibration

To reduce the compressor sound power, several actions were taken in terms of absorption and insulation.

First, the compressor is surrounded by a 3-layer insulation made of air, insulation material and a metal box.

Regarding the absorption, the unit benefits from a double sound reduction by using rubber pads between the bottom plate and the vibration plate under the compressor.





New double injection compressor

To make this product unique, Daikin Europe cooperated with Daikin Japan to develop top notch components.
Daikin Altherma 3 R MT is available in classes 8-10-12 delivers up to 65 °C leaving water temperature.

Impressive performance

In line with our other heat pump models optimized for replacement, the Daikin Altherma 3 R MT reaches the best performances illustrated in the energy labels:



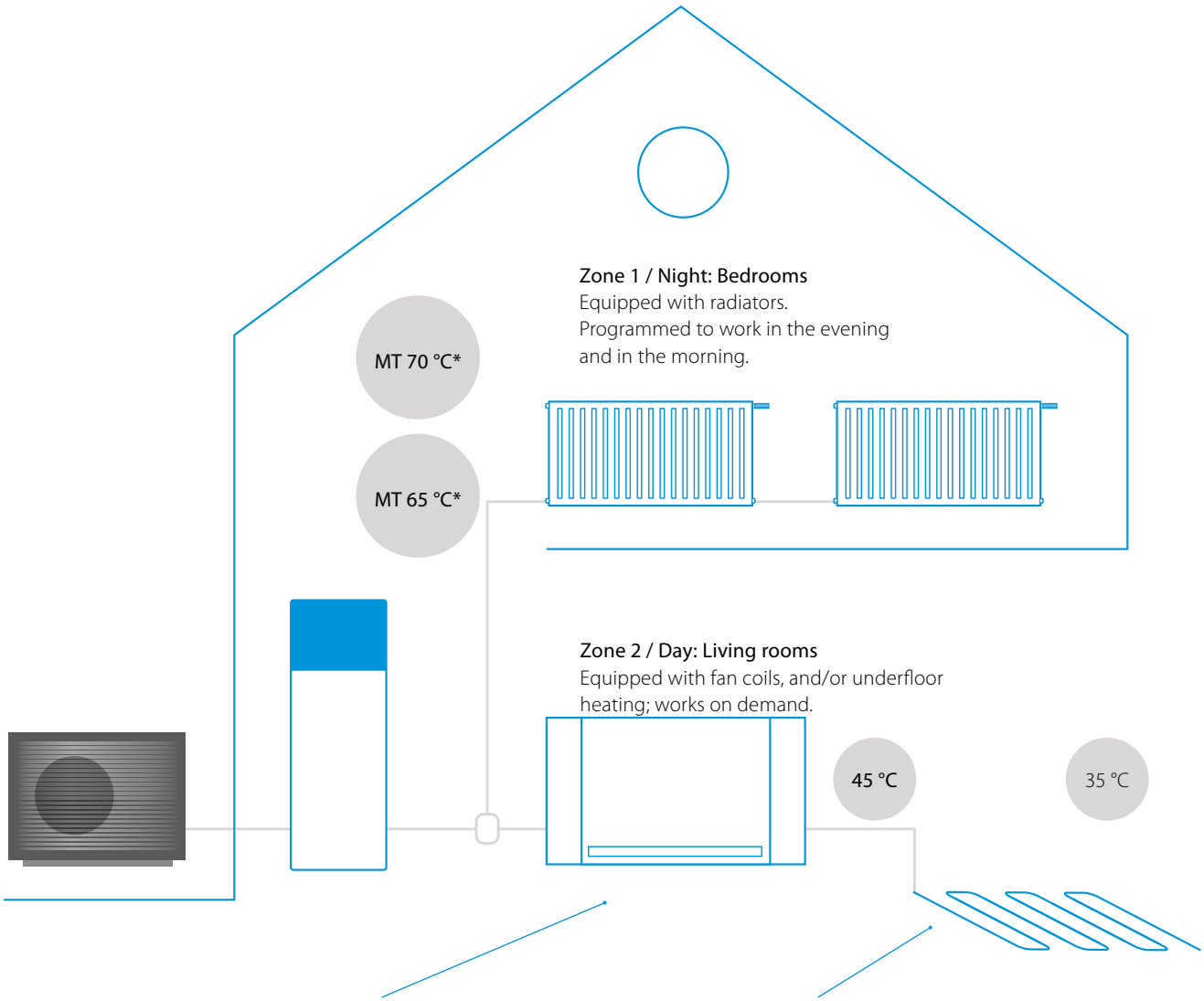
35 °C and 55 °C
Space heating

Feel a true performance

Get the best comfort

with the best functionalities

The indoor units come in 3 possible versions: heating only, reversible and bizone, giving you the opportunity to tailor your Daikin heating system.



Daikin Altherma HPC (heat pump convectors) are hydronic emitters that can provide cooling or heating. They can be combined and are a perfect fit with underfloor systems.

Your **underfloor piping system** is designed to receive mid-temperature water to heat your home, but when the summer comes, the pipes can also receive colder water to refresh your environment.

* Daikin Altherma 3 R MT produces a LWT up to 65 °C (08-10-12 classes).

DESIGN AWARD 2018

reddot award 2018 winner

R-32

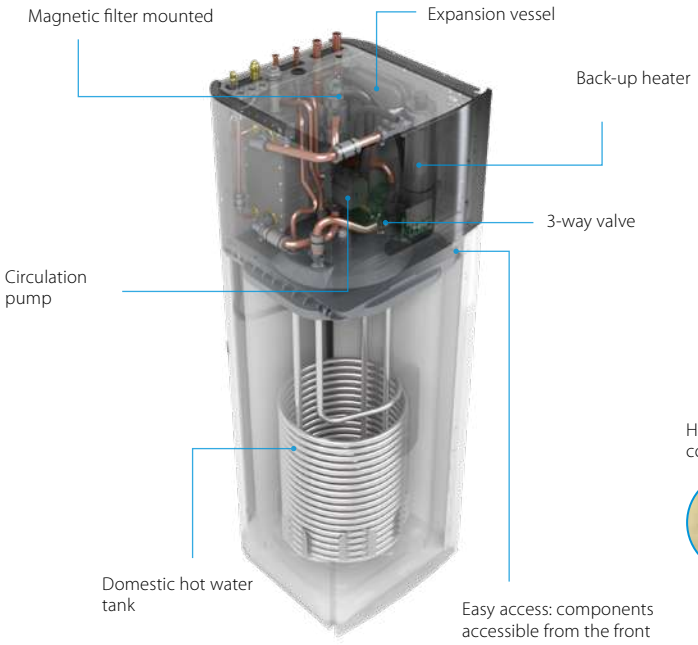
BLUEVOLUTION

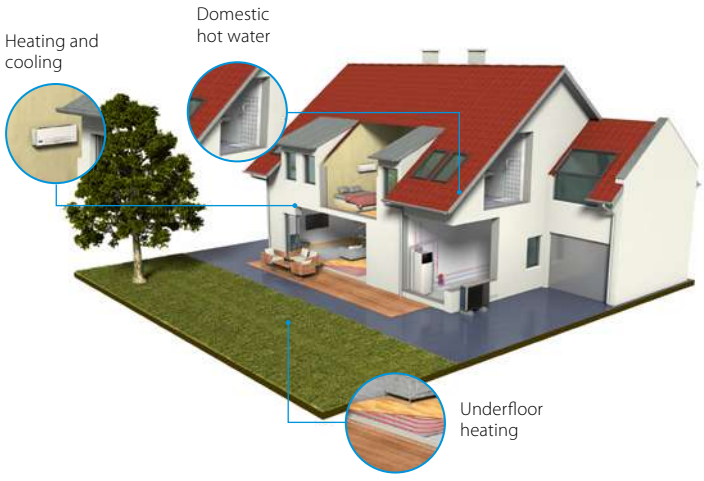
Floor standing unit with integrated tank

With a small footprint of 595 x 625 mm, the integrated indoor unit has a similar footprint when compared to other household appliances. The unit is equipped with a tank of 180 or 230 L to answer your domestic hot water demand.



Floor standing air to water heat pump for heating and hot water: ETVH units
Floor standing air to water heat pump for heating, cooling and hot water: ETVX units
Floor standing integrated with two different temperature zones monitoring: ETVZ units





Daikin Altherma 3 R MT F

Floor standing air to water heat pump for **heating and hot water**, ideal for low energy houses

- A combined stainless steel domestic hot water tank of 180 or 230L and heat pump for easy installation
- Energy efficient heating only system based on air to water heat pump technology
- Quick configuration in 9 steps in a high resolution colour interface wizard
- Inclusion of all hydraulic components means no third party components are required
- The unit's sleek design blends in with other household appliances



up to A+++ D | A+ F | 65 °C | R-32

011-1W0651
011-1W0652
011-1W0653
011-1W0654
011-1W0655
011-1W0656

ELVH-E6V | ELVH-E9W | ERRA08-12EW1

Efficiency data				ELVH + ERRA	12S18E6V/9W + 08EW1	12S23E6V/9W + 08EW1	12S18E6V/9W + 10EW1	12S23E6V/9W + 10EW1	12S18E6V/9W + 12EW1	12S23E6V/9W + 12EW1
Space heating	Average climate water outlet 55 °C	General	SCOP		3.42		3.43		3.53	
			ηs (Seasonal space heating efficiency)	%	134				138	
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.81		4.84			
			ηs (Seasonal space heating efficiency)	%	190		191			
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General	Declared load profile			L					
	Average climate	COP		dhw	2.8	3.05	2.8	3.05	2.8	3.05
		ηwh (water heating efficiency)		%	120	130	120	130	120	130
		Water heating energy efficiency class			A+					

Indoor Unit				ELVH	12S18E6V/9W	12S23E6V/9W	12S18E6V/9W	12S23E6V/9W	12S18E6V/9W	12S23E6V/9W
Casing	Colour				White + Black					
	Material				Precoated sheet metal					
Dimensions	Unit	HeightxWidthxDepth		mm	1,655x595x634	1,855x595x634	1,655x595x634	1,855x595x634	1,655x595x634	1,855x595x634
Weight	Unit			kg	120	129	120	129	120	129
Tank	Water volume			l	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min.~Max.	°C	-25 ~ 25					
		Water side	Min.~Max.	°C	15 ~ 65					
	Domestic hot water	Ambient	Min.~Max.	°C	-25 ~ 35					
		Water side	Min.~Max.	°C	25 ~ 62					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit				ERRA	08EW1	10EW1	12EW1
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	107		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating	Min.~Max.		°CDB	-25 ~ 25		
	Cooling	Min.~Max.		°CDB	10 ~ 43		
	Domestic hot water	Min.~Max.		°CDB	-25 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					56		
Sound pressure level (at 1 meter)	Nom.				41.1		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	W1/3~/50/400		
Current	Recommended fuses			A	16		

This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R MT F

Floor standing air to water heat pump for **heating and hot water**, ideal for low energy houses

- A combined stainless steel domestic hot water tank of 180 or 230L and heat pump for easy installation
- Energy efficient heating only system based on air to water heat pump technology
- Quick configuration in 9 steps in a high resolution colour interface wizard
- Inclusion of all hydraulic components means no third party components are required
- The unit's sleek design blends in with other household appliances



up to A+++ A+++ ↑ D

A A+ ↑ F

65 °C

R-32

011-1W0651
011-1W0652
011-1W0653
011-1W0654
011-1W0655
011-1W0656

ELVH-E6V ELVH-E9W ERRA08-12EW1

Efficiency data				ELVH + ERRA	12S18E6V/9W + 08EV3	12S23E6V/9W + 08EV3	12S18E6V/9W + 10EV3	12S23E6V/9W + 10EV3	12S18E6V/9W + 12EV3	12S23E6V/9W + 12EV3
Space heating	Average climate water outlet 55 °C	General	SCOP		3.34				3.44	
			ηs (Seasonal space heating efficiency)	%	130		131		135	
			Seasonal space heating eff. class							
	Average climate water outlet 35 °C	General	SCOP		4.69		4.71			
			ηs (Seasonal space heating efficiency)	%	184		186			
			Seasonal space heating eff. class							
Domestic hot water heating	General	Declared load profile			L					
	Average climate	COP		dhw	2.72	2.96	2.72	2.96	2.72	2.96
		ηwh (water heating efficiency)		%	117	126	117	126	117	126
		Water heating energy efficiency class								

Indoor Unit				ELVH	12S18E6V/9W	12S23E6V/9W	12S18E6V/9W	12S23E6V/9W	12S18E6V/9W	12S23E6V/9W
Casing	Colour				White + Black					
	Material				Precoated sheet metal					
Dimensions	Unit	HeightxWidthxDepth		mm	1,655x595x634	1,855x595x634	1,655x595x634	1,855x595x634	1,655x595x634	1,855x595x634
Weight	Unit			kg	120	129	120	129	120	129
Tank	Water volume			l	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min.~Max.	°C	-25 ~ 25					
		Water side	Min.~Max.	°C	15 ~ 65					
	Domestic hot water	Ambient	Min.~Max.	°C	-25 ~ 35					
		Water side	Min.~Max.	°C	25 ~ 62					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit				ERRA	08EV3	10EV3	12EV3
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	107		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating	Min.~Max.		°CDB	-25 ~ 25		
	Cooling	Min.~Max.		°CDB	10 ~ 43		
	Domestic hot water	Min.~Max.		°CDB	-25 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					54		
Sound pressure level (at 1 meter)	Nom.				40.6		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230		
Current	Recommended fuses			A	32		

This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R MT F

Floor standing air to water heat pump for **heating, cooling and hot water**, ideal for low energy houses

- A combined stainless steel domestic hot water tank of 180 or 230L and heat pump for easy installation
- For hot water, heating and cooling
- Quick configuration in 9 steps in a high resolution colour interface wizard
- Inclusion of all hydraulic components means no third party components are required
- The unit's sleek design blends in with other household appliances



up to A+++ D

A+ F

65 °C

R-32

011-1W0651
011-1W0652
011-1W0653
011-1W0654
011-1W0655
011-1W0656

ELVX-E6V ELVX-E9W ERRA08-12EW1

Efficiency data				ELVX + ERRA	12S18E6V/9W + 08EW1	12S23E6V/9W + 08EW1	12S18E6V/9W + 10EW1	12S23E6V/9W + 10EW1	12S18E6V/9W + 12EW1	12S23E6V/9W + 12EW1
Space heating	Average climate water outlet 55 °C	General	SCOP		3.47		3.48		3.58	
			ηs (Seasonal space heating efficiency)	%	136				140	
			Seasonal space heating eff. class							
	Average climate water outlet 35 °C	General	SCOP		4.95		4.98			
			ηs (Seasonal space heating efficiency)	%	195		196			
			Seasonal space heating eff. class							
Domestic hot water heating	General	Declared load profile			L					
	Average climate	COP		dhw	2.8	3.05	2.8	3.05	2.8	3.05
		ηwh (water heating efficiency)		%	120	130	120	130	120	130
		Water heating energy efficiency class								

Indoor Unit				ELVX	12S18E6V/9W	12S23E6V/9W	12S18E6V/9W	12S23E6V/9W	12S18E6V/9W	12S23E6V/9W
Casing	Colour				White + Black					
	Material				Precoated sheet metal					
Dimensions	Unit	HeightxWidthxDepth		mm	1,655x595x634	1,855x595x634	1,655x595x634	1,855x595x634	1,655x595x634	1,855x595x634
Weight	Unit			kg	120	129	120	129	120	129
Tank	Water volume			l	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min.~Max.	°C	-25 ~ 25					
		Water side	Min.~Max.	°C	15 ~ 65					
	Domestic hot water	Ambient	Min.~Max.	°C	-25 ~ 35					
		Water side	Min.~Max.	°C	25 ~ 62					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit				ERRA	08EW1	10EW1	12EW1
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	107		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating		Min.~Max.	°CDB	-25 ~ 25		
	Cooling		Min.~Max.	°CDB	10 ~ 43		
	Domestic hot water		Min.~Max.	°CDB	-25 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					56		
Sound pressure level (at 1 meter)	Nom.				41.1		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	W1/3~/50/400		
Current	Recommended fuses			A	16		

This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R MT F

Floor standing air to water heat pump for **heating, cooling and hot water**, ideal for low energy houses

- A combined stainless steel domestic hot water tank of 180 or 230L and heat pump for easy installation
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- Quick configuration in 9 steps in a high resolution colour interface wizard
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up to A+++ A+++ D | A+ A+ F | 65 °C | R-32

011-1W0651
011-1W0652
011-1W0653
011-1W0654
011-1W0655
011-1W0656

ELVX-E6V ELVX-E9W ERRA08-12EW1

Efficiency data				ELVX + ERRA	12S18E6V/9W + 08EV3	12S23E6V/9W + 08EV3	12S18E6V/9W + 10EV3	12S23E6V/9W + 10EV3	12S18E6V/9W + 12EV3	12S23E6V/9W + 12EV3
Space heating	Average climate water outlet 55 °C	General	SCOP		3.37		3.38		3.47	
			ηs (Seasonal space heating efficiency)	%	132				136	
			Seasonal space heating eff. class		A++					
	Average climate water outlet 35 °C	General	SCOP		4.79		4.82			
			ηs (Seasonal space heating efficiency)	%	188		190			
			Seasonal space heating eff. class		A+++					
Domestic hot water heating	General	Declared load profile			L					
	Average climate	COP		dhw	2.72	2.96	2.72	2.96	2.72	2.96
		ηwh (water heating efficiency)		%	117	126	117	126	117	126
		Water heating energy efficiency class			A+					

Indoor Unit				ELVX	12S18E6V/9W	12S23E6V/9W	12S18E6V/9W	12S23E6V/9W	12S18E6V/9W	12S23E6V/9W
Casing	Colour				White + Black					
	Material				Precoated sheet metal					
Dimensions	Unit	HeightxWidthxDepth		mm	1,655x595x634	1,855x595x634	1,655x595x634	1,855x595x634	1,655x595x634	1,855x595x634
Weight	Unit			kg	120	129	120	129	120	129
Tank	Water volume			l	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min.~Max.	°C	-25 ~25					
		Water side	Min.~Max.	°C	15 ~65					
	Domestic hot water	Ambient	Min.~Max.	°C	-25 ~35					
		Water side	Min.~Max.	°C	25 ~62					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit				ERRA	08EV3	10EV3	12EV3
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	107		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating	Min.~Max.		°CDB	-25 ~ 25		
	Cooling	Min.~Max.		°CDB	10 ~ 43		
	Domestic hot water	Min.~Max.		°CDB	-25 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					54		
Sound pressure level (at 1 meter)	Nom.				40.6		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230		
Current	Recommended fuses			A	32		

This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R MT F

Floor standing unit integrated with different temperature zones management

- A combined stainless steel domestic hot water tank of 180 or 230L and heat pump for easy installation
- Bi-zone allows temperature monitoring for 2 zones. Connect underfloor heating to radiators to optimise efficiency
- Quick configuration in 9 steps in a high resolution colour interface wizard
- Inclusion of all hydraulic components means no third party components are required
- The unit's sleek design blends in with other household appliances



up to A+++ D

A+ F

65 °C

R-32

011-1W0651
011-1W0652
011-1W0653
011-1W0654
011-1W0655
011-1W0656

ELVZ-E6V ELVZ-E9W ERRA08-12EW1

Efficiency data				ELVZ + ERRA	12S18E6V/9W + 08EW1	12S23E6V/9W + 08EW1	12S18E6V/9W + 10EW1	12S23E6V/9W + 10EW1	12S18E6V/9W + 12EW1	12S23E6V/9W + 12EW1
Space heating	Average climate water outlet 55 °C	General	SCOP		3.42		3.43		3.58	
			ηs (Seasonal space heating efficiency)	%	134		134		138	
			Seasonal space heating eff. class							
	Average climate water outlet 35 °C	General	SCOP		4.81		4.84			
			ηs (Seasonal space heating efficiency)	%	190		191			
			Seasonal space heating eff. class							
Domestic hot water heating	General	Declared load profile			L					
	Average climate	COP		dhw	2.8	3.05	2.8	3.05	2.8	3.05
		ηwh (water heating efficiency)		%	120	130	120	130	120	130
		Water heating energy efficiency class								

Indoor Unit				ELVZ	12S18E6V/9W	12S23E6V/9W	12S18E6V/9W	12S23E6V/9W	12S18E6V/9W	12S23E6V/9W
Casing	Colour				White + Black					
	Material				Precoated sheet metal					
Dimensions	Unit	HeightxWidthxDepth		mm	1,655x595x634	1,855x595x634	1,655x595x634	1,855x595x634	1,655x595x634	1,855x595x634
Weight	Unit			kg	133	141	133	141	133	141
Tank	Water volume			l	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min.~Max.	°C	-25 ~ 25					
		Water side	Min.~Max.	°C	15 ~ 65					
	Domestic hot water	Ambient	Min.~Max.	°C	-25 ~ 35					
		Water side	Min.~Max.	°C	25 ~ 62					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit				ERRA	08EW1	08EW1	10EW1	10EW1	12EW1	12EW1
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533					
Weight	Unit			kg	107					
Compressor	Quantity				1					
	Type				Hermetically sealed swing compressor					
Operation range	Heating		Min.~Max.	°CDB	-25 ~ 25					
	Cooling		Min.~Max.	°CDB	10 ~ 43					
	Domestic hot water		Min.~Max.	°CDB	-25 ~ 35					
Refrigerant	Type				R-32					
	GWP				675					
	Charge			kg	3.25					
	Charge			TCO2Eq	2.19					
	Control				Expansion valve					
LW(A) Sound power level (according to EN14825)					56					
Sound pressure level (at 1 meter)	Nom.				41.1					
Power supply	Name/Phase/Frequency/Voltage			Hz/V	W1/3~/50/400					
Current	Recommended fuses			A	16					

This product contains fluorinated greenhouse gases.

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Daikin Altherma 3 R MT F

Floor standing unit integrated with different temperature zones management

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up to A+++ D

A+ F

65 °C

R-32

011-1W0651
011-1W0652
011-1W0653
011-1W0654
011-1W0655
011-1W0656

ELVZ-E6V ELVZ-E9W ERRA08-12EW1

Efficiency data					ELVZ + ERRA	12S18E6V/9W + 08EV3	12S23E6V/9W + 08EV3	12S18E6V/9W + 10EV3	12S23E6V/9W + 10EV3	12S18E6V/9W + 12EV3	12S23E6V/9W + 12EV3
Space heating	Average climate water outlet 55 °C	General	SCOP			3.34				3.44	
			ηs (Seasonal space heating efficiency)	%		130		131		135	
			Seasonal space heating eff. class					A+			
	Average climate water outlet 35 °C	General	SCOP			4.69		4.71			
			ηs (Seasonal space heating efficiency)	%		184		186			
			Seasonal space heating eff. class					A+			
Domestic hot water heating	General	Declared load profile				L					
	Average climate	COP		dhw		2.72	2.96	2.72	2.96	2.72	2.96
		ηwh (water heating efficiency)		%		117	126	117	126	117	126
		Water heating energy efficiency class						A+			

Indoor Unit				ELVZ	12S18E6V/9W	12S23E6V/9W	12S18E6V/9W	12S23E6V/9W	12S18E6V/9W	12S23E6V/9W
Casing	Colour				White + Black					
	Material				Precoated sheet metal					
Dimensions	Unit	HeightxWidthxDepth		mm	1,655x595x634	1,855x595x634	1,655x595x634	1,855x595x634	1,655x595x634	1,855x595x634
Weight	Unit			kg	133	141	133	141	133	141
Tank	Water volume			l	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min.~Max.	°C	-25 ~ 25					
		Water side	Min.~Max.	°C	15 ~ 65					
	Domestic hot water	Ambient	Min.~Max.	°C	-25 ~ 35					
		Water side	Min.~Max.	°C	25 ~ 62					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit				ERRA	08EV3	08EV3	10EV3	10EV3	12EV3	12EV3
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533					
Weight	Unit			kg	107					
Compressor	Quantity				1					
	Type				Hermetically sealed swing compressor					
Operation range	Heating		Min.~Max.	°CDB	-25 ~ 25					
	Cooling		Min.~Max.	°CDB	10 ~ 43					
	Domestic hot water		Min.~Max.	°CDB	-25 ~ 35					
Refrigerant	Type				R-32					
	GWP				675					
	Charge			kg	3.25					
	Charge			TCO2Eq	2.19					
	Control				Expansion valve					
LW(A) Sound power level (according to EN14825)					54					
Sound pressure level (at 1 meter)	Nom.				40.6					
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230					
Current	Recommended fuses			A	32					

This product contains fluorinated greenhouse gases.

Floor standing unit with integrated ECH_2O tank

R-32

BLUEVOLUTION

This model is the most compact unit but needs to be with a separate tank to deliver domestic hot water. The ECH_2O unit is equipped with a thermal DHW tank of 300 or 500 L that can be connected to thermal solar panels.





Floor standing air-to-water heat pump for heating and hot water with thermal solar suport: ELSH units
Floor standing air-to-water heat pump for bivalent heating and hot water with thermal solar suport: ELSHB units
Floor standing air-to-water heat pump for heating, cooling and hot water with thermal solar suport: ELSX units
Floor standing air-to-water heat pump for bivalent heating, cooling and hot water with thermal solar suport: ELSXB units

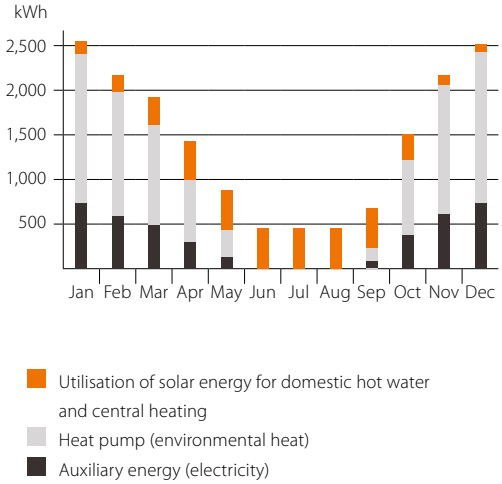
Pressureless (drain-back) solar system (ELSH*, ELSX*)

- The solar collectors are only filled with water when sufficient heating is provided by the sun
- The pumps in the control and pump unit switch on briefly and fill the collectors with storage tank water
- After filling, water circulation is maintained by the remaining pump

Pressurised solar system (ELSHB*, ELSXB*)

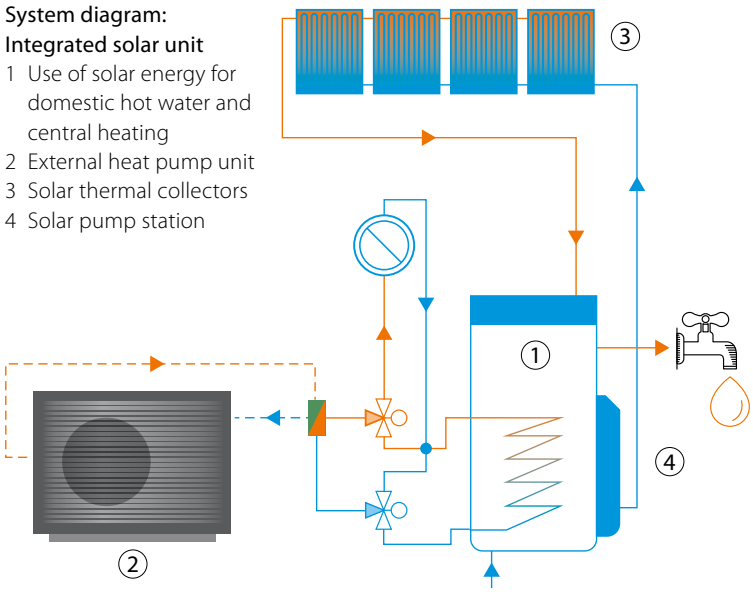
- System is filled with heat transfer fluid with the correct amount of antifreeze to avoid freezing in winter
- System is pressurised and sealed

Monthly energy consumption of an average detached house



System diagram: Integrated solar unit

1 Use of solar energy for domestic hot water and central heating
2 External heat pump unit
3 Solar thermal collectors
4 Solar pump station



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Daikin Altherma 3 R MT ECH$_2$O

Floor standing air-to-water heat pump for **heating and hot water** with thermal solar support

- Integrated solar unit, offering top comfort in heating and hot water
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Quick configuration in 9 steps in a high resolution colour interface wizard
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection





011-1W0657
011-1W0658

ELSH-E ERRA08-12EW1

Efficiency data				ELSH + ERRA	12P30E + 08EW1	12P50E + 08EW1	12P30E + 10EW1	12P50E + 10EW1	12P30E + 12EW1	12P50E + 12EW1
Space heating	Average climate water outlet 55 °C	General	SCOP		3.42		3.43		3.53	
			ηs (Seasonal space heating efficiency)	%	134				138	
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.81		4.84			
			ηs (Seasonal space heating efficiency)	%	190		191			
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COP		dhw	2.83	3.29	2.83	3.29	2.83	3.29
		ηwh (water heating efficiency)		%	119	136	119	136	119	136
		Water heating energy efficiency class			A+					

Indoor Unit				ELSH	12P30E	12P50E	12P30E	12P50E	12P30E	12P50E
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth		mm	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817
Weight	Unit			kg	76	91	76	91	76	91
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-25 ~25					
		Water side	Min.~Max.	°C	15 ~ 65					
	Domestic hot water	Ambient	Min.~Max.	°C	-25 ~ 35					
		Water side	Min.~Max.	°C	25 ~ 62					
Sound power level	Nom.			dBA	44.7					
Sound pressure level	Nom.			dBA	36.8					

Outdoor Unit				ERRA	08EW1	10EW1	12EW1
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	107		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating		Min.~Max.	°CDB	-25 ~25		
	Domestic hot water		Min.~Max.	°CDB	-25 ~35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					56		
Sound pressure level (at 1 meter)	Nom.				41.1		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	W1/3~/50/400		
Current	Recommended fuses			A	16		

This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R MT ECH$_2$O

Floor standing air-to-water heat pump for **heating and hot water** with thermal solar support

- Integrated solar unit, offering top comfort in heating and hot water
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Quick configuration in 9 steps in a high resolution colour interface wizard
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection



up to A+++ D | A+ F | 65 °C | R-32

011-1W0657
011-1W0658

ELSH-E ERRA08-12EV3

Efficiency data				ELSH + ERRA	12P30E + 08EV3	12P50E + 08EV3	12P30E + 10EV3	12P50E + 10EV3	12P30E + 12EV3	12P50E + 12EV3
Space heating	Average climate water outlet 55 °C	General	SCOP		3.44					
			ηs (Seasonal space heating efficiency)	%	130		131		135	
			Seasonal space heating eff. class		A++					
	Average climate water outlet 35 °C	General	SCOP		4.69		4.71			
			ηs (Seasonal space heating efficiency)	%	184				186	
			Seasonal space heating eff. class		A++					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COP		dhw	2.75	3.19	2.75	3.19	2.75	3.19
		ηwh (water heating efficiency)		%	116	132	116	132	116	132
		Water heating energy efficiency class			A+					

Indoor Unit				ELSH	12P30E	12P50E	12P30E	12P50E	12P30E	12P50E
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth		mm	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817
Weight	Unit			kg	76	91	76	91	76	91
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-25 ~25					
		Water side	Min.~Max.	°C	15 ~65					
	Domestic hot water	Ambient	Min.~Max.	°C	-25 ~35					
		Water side	Min.~Max.	°C	25 ~62					
Sound power level	Nom.			dBA	44.7					
Sound pressure level	Nom.			dBA	36.8					

Outdoor Unit				ERRA	08EV3	10EV3	12EV3
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	107		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating		Min.~Max.	°CDB	-25 ~ 25		
	Domestic hot water		Min.~Max.	°CDB	-25 ~35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					54		
Sound pressure level (at 1 meter)	Nom.				40.6		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230		
Current	Recommended fuses			A	32		

This product contains fluorinated greenhouse gases.

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BLUEVOLUTION

Daikin Altherma 3 R MT ECH$_2$O

Floor standing air-to-water heat pump for **bivalent heating, cooling and hot** water with thermal solar support

- Integrated solar unit, offering top comfort in heating and hot water
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Bivalent system: combinable with a secondary heat source





011-1W0657
011-1W0658

ELSHB-E ERRA08-12EW1

Efficiency data				ELSHB + ERRA	12P30E + 08EW1	12P50E + 08EW1	12P30E + 10EW1	12P50E + 10EW1	12P30E + 12EW1	12P50E + 12EW1
Space heating	Average climate water outlet 55 °C	General	SCOP		3.42		3.43		3.53	
			ηs (Seasonal space heating efficiency)	%	134				138	
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.81		4.84			
			ηs (Seasonal space heating efficiency)	%	190		191			
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COP		dhw	2.83	3.29	2.83	3.29	2.83	3.29
		ηwh (water heating efficiency)		%	119	136	119	136	119	136
		Water heating energy efficiency class			A+					

Indoor Unit				ELSHB	12P30E	12P50E	12P30E	12P50E	12P30E	12P50E
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth		mm	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817
Weight	Unit			kg	76	91	76	91	76	91
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-25 ~25					
		Water side	Min.~Max.	°C	15 ~ 65					
	Domestic hot water	Ambient	Min.~Max.	°C	-25 ~ 35					
		Water side	Min.~Max.	°C	25 ~ 62					
Sound power level	Nom.			dBA	44.7					
Sound pressure level	Nom.			dBA	36.8					

Outdoor Unit				ERRA	08EW1	10EW1	12EW1
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	107		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating		Min.~Max.	°CDB	-25 ~25		
	Domestic hot water		Min.~Max.	°CDB	-25 ~35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					56		
Sound pressure level (at 1 meter)	Nom.				41.1		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	W1/3~/50/400		
Current	Recommended fuses			A	16		

This product contains fluorinated greenhouse gases.

Daikin Altherma 3 R MT ECH$_2$O

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up to A+++ D | A+ F | 65 °C | R-32

011-1W0657
011-1W0658

ELSHB-E ERRA08-12EV3

Efficiency data				ELSHB + ERRA	12P30E + 08EV3	12P50E + 08EV3	12P30E + 10EV3	12P50E + 10EV3	12P30E + 12EV3	12P50E + 12EV3
Space heating	Average climate water outlet 55 °C	General	SCOP		3.44					
			ηs (Seasonal space heating efficiency)	%	130		131		135	
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.69		4.71			
			ηs (Seasonal space heating efficiency)	%	184				186	
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COP		dhw	2.75	3.19	2.75	3.19	2.75	3.19
		ηwh (water heating efficiency)		%	116	132	116	132	116	132
		Water heating energy efficiency class			A+					

Indoor Unit				ELSHB	12P30E	12P50E	12P30E	12P50E	12P30E	12P50E
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth		mm	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817
Weight	Unit			kg	76	91	76	91	76	91
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-25 ~25					
		Water side	Min.~Max.	°C	15 ~65					
	Domestic hot water	Ambient	Min.~Max.	°C	-25 ~35					
		Water side	Min.~Max.	°C	25 ~62					
Sound power level	Nom.			dBA	44.7					
Sound pressure level	Nom.			dBA	36.8					

Outdoor Unit				ERRA	08EV3	10EV3	12EV3
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	107		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating		Min.~Max.	°CDB	-25 ~ 25		
	Domestic hot water		Min.~Max.	°CDB	-25 ~35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					54		
Sound pressure level (at 1 meter)	Nom.				40.6		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230		
Current	Recommended fuses			A	32		

This product contains fluorinated greenhouse gases.

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Daikin Altherma 3 R MT ECH$_2$O

Floor standing air-to-water heat pump for **heating, cooling and hot water** with thermal solar support

- Integrated solar unit, offering top comfort in heating and hot water
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
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up to A+++ D

A+ F

65 °C

R-32

011-1W0657
011-1W0658

ELSX-E ERRA08-12EW1

Efficiency data				ELSX+ ERRA	12P30E + 08EW1	12P50E + 08EW1	12P30E + 10EW1	12P50E + 10EW1	12P30E + 10EW1	12P50E + 10EW1
Space heating	Average climate water outlet 55 °C	General	SCOP		3.47		3.48		3.48	
			ηs (Seasonal space heating efficiency)	%	136					
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.95		4.98			
			ηs (Seasonal space heating efficiency)	%	195		196			
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COP		dhw	2.83	3.29	2.83	3.29	2.83	3.29
		ηwh (water heating efficiency)		%	119	136	119	136	119	136
		Water heating energy efficiency class			A+					

Indoor Unit				ELSX	12P30E	12P50E	12P30E	12P50E	12P30E	12P50E
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth		mm	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817
Weight	Unit			kg	76	91	76	91	76	91
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-25 ~25					
		Water side	Min.~Max.	°C	15 ~65					
	Domestic hot water	Ambient	Min.~Max.	°C	-25 ~35					
		Water side	Min.~Max.	°C	25 ~62					
Sound power level	Nom.			dBA	44.7					
Sound pressure level	Nom.			dBA	36.8					

Outdoor Unit				ERRA	08EW1	10EW1	12EW1
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	107		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating		Min.~Max.	°CDB	-25 ~25		
	Domestic hot water		Min.~Max.	°CDB	-25 ~35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					56		
Sound pressure level (at 1 meter)	Nom.				41.1		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	W1/3~/50/400		
Current	Recommended fuses			A	16		

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Daikin Altherma 3 R MT ECH$_2$O

Floor standing air-to-water heat pump for **heating, cooling and hot water** with thermal solar support

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up to A+++ A+++ ↑ D | A+ A+ ↑ F | 65 °C | R-32

011-1W0657
011-1W0658

ELSX-E ERRA08-12EV3

Efficiency data				ELSX+ ERRA	12P30E + 08EV3	12P50E + 08EV3	12P30E + 10EV3	12P50E + 10EV3	12P30E + 12EV3	12P50E + 12EV3
Space heating	Average climate water outlet 55 °C	General	SCOP		3.37		3.38		3.47	
			ηs (Seasonal space heating efficiency)	%	132				136	
			Seasonal space heating eff. class		A++					
	Average climate water outlet 35 °C	General	SCOP		4.79		4.82			
			ηs (Seasonal space heating efficiency)	%	188		190			
			Seasonal space heating eff. class		A+++					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COP		dhw	2.75	3.19	2.75	3.19	2.75	3.19
		ηwh (water heating efficiency)		%	116	132	116	132	116	132
		Water heating energy efficiency class			A+					

Indoor Unit				ELSX	12P30E	12P50E	12P30E	12P50E	12P30E	12P50E
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth		mm	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817
Weight	Unit			kg	76	91	76	91	76	91
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-25 ~25					
		Water side	Min.~Max.	°C	15 ~65					
	Domestic hot water	Ambient	Min.~Max.	°C	-25 ~35					
		Water side	Min.~Max.	°C	25 ~62					
Sound power level	Nom.			dBA	44.7					
Sound pressure level	Nom.			dBA	36.8					

Outdoor Unit				ERRA	08EV3	10EV3	12EV3
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	107		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating		Min.~Max.	°CDB	-25 ~25		
	Domestic hot water		Min.~Max.	°CDB	-25 ~35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					54		
Sound pressure level (at 1 meter)	Nom.				40.6		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230		
Current	Recommended fuses			A	32		

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up to A+++ D | A+ F | 65 °C | R-32

011-1W0657
011-1W0658

ELSXB-E ERRA08-12EW1

Efficiency data				ELSXB+ ERRA	12P30E + 08EW1	12P50E + 08EW1	12P30E + 10EW1	12P50E + 10EW1	12P30E + 10EW1	12P50E + 10EW1
Space heating	Average climate water outlet 55 °C	General	SCOP		3.47		3.48		3.48	
			ηs (Seasonal space heating efficiency)	%	136					
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.95		4.98			
			ηs (Seasonal space heating efficiency)	%	195		196			
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COP		dhw	2.83	3.29	2.83	3.29	2.83	3.29
		ηwh (water heating efficiency)		%	119	136	119	136	119	136
		Water heating energy efficiency class			A+					

Indoor Unit				ELSXB	12P30E	12P50E	12P30E	12P50E	12P30E	12P50E
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth		mm	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817
Weight	Unit			kg	76	91	76	91	76	91
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-25 ~25					
		Water side	Min.~Max.	°C	15 ~65					
	Domestic hot water	Ambient	Min.~Max.	°C	-25 ~35					
		Water side	Min.~Max.	°C	25 ~62					
Sound power level	Nom.			dBA	44.7					
Sound pressure level	Nom.			dBA	36.8					

Outdoor Unit				ERRA	08EW1	10EW1	12EW1
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	107		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating		Min.~Max.	°CDB	-25 ~25		
	Domestic hot water		Min.~Max.	°CDB	-25 ~35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					56		
Sound pressure level (at 1 meter)	Nom.				41.1		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	W1/3~/50/400		
Current	Recommended fuses			A	16		

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- Bivalent system: combinable with a secondary heat source



up to A+++ A+++ ↑ D | A+ A+ ↑ F | 65 °C | R-32

011-1W0657
011-1W0658

ELSXB-E ERRA08-12EV3

Efficiency data				ELSXB+ ERRA	12P30E + 08EV3	12P50E + 08EV3	12P30E + 10EV3	12P50E + 10EV3	12P30E + 12EV3	12P50E + 12EV3
Space heating	Average climate water outlet 55 °C	General	SCOP		3.37		3.38		3.47	
			ηs (Seasonal space heating efficiency)	%	132				136	
			Seasonal space heating eff. class		A++					
	Average climate water outlet 35 °C	General	SCOP		4.79		4.82			
			ηs (Seasonal space heating efficiency)	%	188		190			
			Seasonal space heating eff. class		A+++					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COP		dhw	2.75	3.19	2.75	3.19	2.75	3.19
		ηwh (water heating efficiency)		%	116	132	116	132	116	132
		Water heating energy efficiency class			A+					

Indoor Unit				ELSXB	12P30E	12P50E	12P30E	12P50E	12P30E	12P50E
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth		mm	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817
Weight	Unit			kg	76	91	76	91	76	91
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-25 ~25					
		Water side	Min.~Max.	°C	15 ~65					
	Domestic hot water	Ambient	Min.~Max.	°C	-25 ~35					
		Water side	Min.~Max.	°C	25 ~62					
Sound power level	Nom.			dBA	44.7					
Sound pressure level	Nom.			dBA	36.8					

Outdoor Unit				ERRA	08EV3	10EV3	12EV3
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	107		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating		Min.~Max.	°CDB	-25 ~25		
	Domestic hot water		Min.~Max.	°CDB	-25 ~35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					54		
Sound pressure level (at 1 meter)	Nom.				40.6		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230		
Current	Recommended fuses			A	32		

This product contains fluorinated greenhouse gases.

DESIGN AWARD 2018

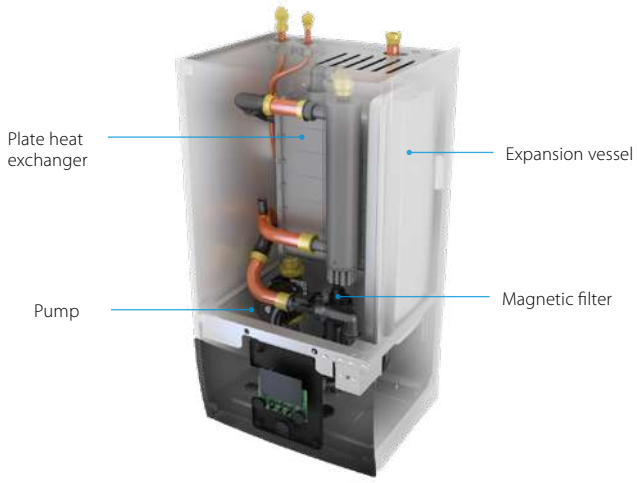
reddot award 2018 winner

R-32

BLUEVOLUTION

Wall mounted unit

This model is the most compact unit for heating and cooling with high flexibility for a quick and easy installation, with an optional connection to domestic hot water.





Wall mounted heating only air-to-water heat pump: EBBH units
Wall mounted reversible air-to-water heat pump: EBBX units



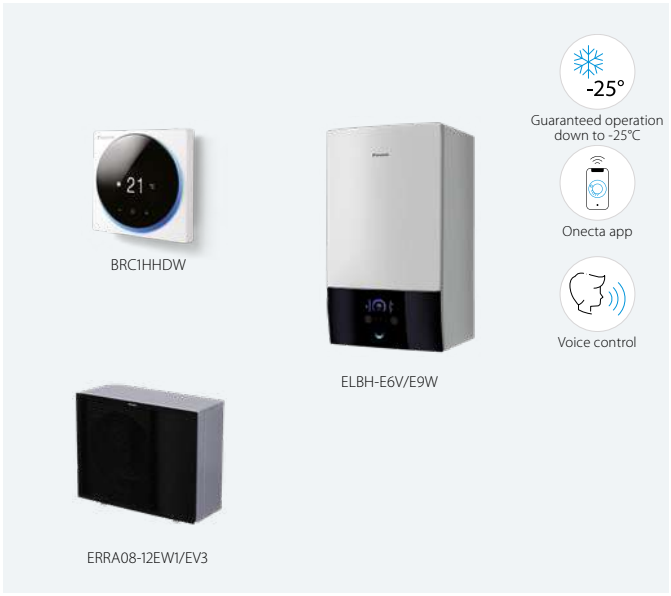
DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R MT W

Wall mounted **heating only** air to water heat pump

- Quick configuration in 9 steps in a high resolution colour interface wizard
- Compact dimensions allows for small installation space, as almost no side clearances are required.
- Combine with a stainless steel tank or ECH$_2$O thermal store.
- Inclusion of all hydraulic components means no third party components are required
- The unit's sleek design blends in with other household appliances



up to A+++ (A+++ to D)

65 °C

R-32

011-1W0651
011-1W0653
011-1W0655

ELBH-E6V | ELBH-E9W | ERRA08-12EW1 | ERRA08-12EV3

Efficiency data				ELBH + ERRA	12E6V/9W + 08EW1	12E6V/9W + 08EV3	12E6V/9W + 10EW1	12E6V/9W + 10EV3	12E6V/9W + 12EW1	12E6V/9W + 12EV3
Space heating	Average climate water outlet 55 °C	General	SCOP		3.42	3.42	3.42	3.42	3.42	3.42
			ηs (Seasonal space heating efficiency)	%	134	130	134	131	138	135
			Seasonal space heating eff. class				A+++			
	Average climate water outlet 35 °C	General	SCOP		4.81	4.69	4.84	4.71	4.84	4.71
			ηs (Seasonal space heating efficiency)	%	190	184	191	186	191	186
			Seasonal space heating eff. class				A+++			

Indoor Unit				ELBH	12E6V	12E9W	12E6V	12E9W	12E6V	12E9W
Casing	Colour				White + Black					
	Material				Resin, sheet metal					
Dimensions	Unit		HeightxWidthxDepth	mm	840x440x390					
Weight	Unit			kg	48.5					
Operation range	Heating	Ambient	Min.~Max.	°C	-25 ~ 25					
		Water side	Min.~Max.	°C	15 ~ 65					
	Domestic hot water	Ambient	Min.~Max.	°C	-25 ~ 35					
		Water side	Min.~Max.	°C	25 ~ 62					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit				ERRA	08EW1	08EV3	10EW1	10EV3	12EW1	12EV3
Dimensions	Unit		HeightxWidthxDepth	mm	1,003x1,270x533					
Weight	Unit			kg	107					
Compressor	Quantity				1					
	Type				Hermetically sealed swing compressor					
Operation range	Heating		Min.~Max.	°CDB	-25 ~ 25					
	Domestic hot water		Min.~Max.	°CDB	-25 ~ 35					
Refrigerant	Type				R-32					
	GWP				675					
	Charge			kg	3.25					
	Charge			TCO2Eq	2.19					
	Control				Expansion valve					
LW(A) Sound power level (according to EN14825)					56	54	56	54	56	54
Sound pressure level (at 1 meter)	Nom.				41.1	40.6	41.1	40.6	41.1	40.6
Power supply	Name/Phase/Frequency/Voltage			Hz/V	W1/3~/50/400	V3/1~/50/230	W1/3~/50/400	V3/1~/50/230	W1/3~/50/400	V3/1~/50/230
Current	Recommended fuses			A	16	32	16	32	16	32

This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R MT W

Wall mounted **reversible** air to water heat pump for heating and cooling

- Quick configuration in 9 steps in a high resolution colour interface wizard
- Compact dimensions allows for small installation space, as almost no side clearances are required.
- Combine with a stainless steel tank or ECH$_2$O thermal store.
- Inclusion of all hydraulic components means no third party components are required
- The unit's sleek design blends in with other household appliances



BRC1HHDW


ELBX-E6V/E9W


ERRA08-12EV3/W1

-25°
Guaranteed operation down to -25°C

Onecta app

Voice control

up to A+++

65 °C

R-32

011-1W0651
011-1W0653
011-1W0655

ELBX-E6V | ELBX-E9W | ERRA08-12EW1 | ERRA08-12EV3

Efficiency data				ELBX + ERRA	12E6V/9W + 08EW1	12E6V/9W + 08EV3	12E6V/9W + 10EW1	12E6V/9W + 10EV3	12E6V/9W + 12EW1	12E6V/9W + 12EV3
Space heating	Average climate water outlet 55 °C	General	SCOP		3.47	3.37	3.48	3.38	3.58	3.47
			ηs (Seasonal space heating efficiency)	%	136	132	136	132	140	136
			Seasonal space heating eff. class				A+++			
	Average climate water outlet 35 °C	General	SCOP		4.95	4.79	4.98	4.82	4.98	4.82
			ηs (Seasonal space heating efficiency)	%	195	188	196	190	196	190
			Seasonal space heating eff. class				A+++			

Indoor Unit				ELBX	12E6V	12E9W	12E6V	12E9W	12E6V	12E9W
Casing	Colour				White + Black					
	Material				Resin, sheet metal					
Dimensions	Unit		HeightxWidthxDepth	mm	840x440x390					
Weight	Unit			kg	48.5					
Operation range	Heating	Ambient	Min.~Max.	°C	-25 ~25					
		Water side	Min.~Max.	°C	15 ~65					
	Domestic hot water	Ambient	Min.~Max.	°C	-25 ~35					
		Water side	Min.~Max.	°C	25 ~62					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit				ERRA	08EW1	08EV3	10EW1	10EV3	12EW1	12EV3
Dimensions	Unit		HeightxWidthxDepth	mm	1,003x1,270x533					
Weight	Unit			kg	107					
Compressor	Quantity				1					
	Type				Hermetically sealed swing compressor					
Operation range	Heating		Min.~Max.	°CDB	-25 ~ 25					
	Domestic hot water		Min.~Max.	°CDB	-25 ~ 35					
Refrigerant	Type				R-32					
	GWP				675					
	Charge			kg	3.25					
	Charge			TCO2Eq	2.19					
	Control				Expansion valve					
LW(A) Sound power level (according to EN14825)					56	54	56	54	56	54
Sound pressure level (at 1 meter)	Nom.				41.1	40.6	41.1	40.6	41.1	40.6
Power supply	Name/Phase/Frequency/Voltage			Hz/V	W1/3~/50/400	V3/1~/50/230	W1/3~/50/400	V3/1~/50/230	W1/3~/50/400	V3/1~/50/230
Current	Recommended fuses			A	16	32	16	32	16	32

This product contains fluorinated greenhouse gases.

Combination table and options

			H/O	3 R MT	ELVH12S18E6V	ELVH12S18E9W	ELVH12S23E6V	ELVH12S23E9W
Type	**Description**	**Material name**						
Outdoor unit		ERRA08EV3/W1	•					
		ERRA10EV3/W1	•					
		ERRA12EV3/W1	•					
Controller	Madoka wired room thermostat	BRC1HHDK/S/W(7)	•					
	Wireless room thermostat	EKRTRB	•					
	Wired digital thermostat	EKRTWA	•					
	WLAN module	BRP069A71	•					
	Wireless room by room control	Daikin Home Controls (page 288)	•					
	LAN module	BRP069A62	•					
	WLAN cartridge	BRP069A78	• (1)					
	Wired digital thermostat	EKWCTRDI1V3	•					
	Wired analog thermostat	EKWCTRAN1V3	•					
	Wired underfloor heating base station	EKWUFHTA1V3	•					
	Universal centarlized controller	EKCC9-W, DCOM-LT/IO, LT/MB	•					
Domestic hot water	Stainless steel tank	EKHWS(P)(U)150D3V3						
		EKHWS(P)(U)180D3V3						
		EKHWS(P)(U)200D3V3						
		EKHWS(P)(U)250D3V3						
		EKHWS(P)(U)300D3V3						
	Polypropylene tank	EKHWP300B						
		EKHWP500B						
		EKHWP300PB						
		EKHWP500PB						
	Third party tank kit	EKHY3PART						
		EKHY3PART2						
Sensors	External sensor for EKRTRB room thermostat	EKRTETS	•					
	High voltage smart grid relay kit	EKRELSG	•					
	Remote indoor temperature sensor	KRCS01-1	• (6)					
	Remote outdoor temperature sensor	EKRSCA1	• (6)					
	Generic Bizone kit (PCB only)	EKMIKPOA	•					
	Generic Bizone kit	EKMIKPHA	•					
Other options	Digital I/O PCB	EKRP1HBA	• (7)					
	Demand PCB	EKRP1AHT	•					
	PC USB cable	EKPCCAB4	•					
	Conversion kit H/O to reversible for floor standing	EKHVCONV4	•					
	Conversion kit H/O to reversible for wall mounted	EKHBCONV						
	Booster heater kit	EKBH3SD						
ECH_2O options	Inline BUH - connection kit	EKECBUCO2AF						
	Inline BUH - 3kW, for *3V (1N~, 230 V, 3 kW)	EKECBUAF3V						
	Inline BUH - 6kW, for *6V (1N~, 230 V, 6 kW)	EKECBUAF6V						
	Inline BUH - 9kW, for *9WN (3N~, 400 V, 9 kW)	EKECBUAF9W						
	Caleffi sludge and magnetite separator SAS1	156021						
	Biv Connector Kit	EKECBIVCO2AF						
	DB connector Kit	EKECDBCO2AF						
	Solar kit HT incl. pump station	EKSRPS4A						
Daikin Home Hub		EKRHH	•					

(1) Included in accessory bag.
(2) Dedicated connection kit: EKEPRHLT3HX.
(3) Dedicated connection kit: ETBH: EKEPRHLT5H / ETBX: EKEPRHLT5X.
(4) EKHY3PART can be used if you have a tank in which you can insert the thermistor.
(5) EKHY3PART2 can needs to be used if you have a tank in which you can't insert a thermistor.
(6) Only one sensor can be connected: indoor or outdoor.
(7) Additional relays to allow bivalent control in combination with external room thermostat are field supply.
(8) Only 1 Backup heater can be connected on one unit: 3 or 6* or 9 kW (*No 6T1-model applicable). EKECBUCO2AF is needed to connect the backup heater to the main unit.
(9) Only bivalent models.
(10) Only needed for 300 models. 500 models do not need DB connector kit to install DB solar system.
(11) Models EKHWSU150DV3, EKHWSU180DV3, EKHWSU200DV3, EKHWSU250DV3 and EKHWSU300DV3 are not available for the UK.

Floor standing integrated tank		Floor standing integrated ECH_2O	Wall mounted	
Reversible	Bizone		H/O	Reversible
3 R MT	3 R MT	3 R MT	3 R MT	3 R MT
ELVX12S18E6V	ELVZ12S18E6V	ELSH(B)12P30E		
ELVX12S18E9W	ELVZ12S18E9W	ELSH(B)12P50E		
ELVX12S23E6V	ELVZ12S23E6V	ELSX(B)12P30E	ELBH12E6V	ELBX12E6V
ELVX12S23E9W	ELVZ12S23E9W	ELSX(B)12P50E	ELBH12E9W	ELBX12E9W
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
• (1)	• (1)	• (1)	• (1)	• (1)
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
			• (11)	• (11)
			• (11)	• (11)
			• (11)	• (11)
			• (11)	• (11)
			• (11)	• (11)
			• (2)	• (2)
			• (3)	• (3)
			• (2)	• (2)
			• (3)	• (3)
			• (4)	• (4)
			• (5)	• (5)
•	•	•	•	•
•	•	•	•	•
• (6)	• (6)	• (6)	• (6)	• (6)
• (6)	• (6)	• (6)	• (6)	• (6)
•		•	•	•
•		•	•	•
• (7)	• (7)		• (7)	• (7)
•	•	•	•	•
•	•	•	•	•
	•			
			•	
		•		
		• (8)		
		• (8)		
		• (8)		
		•		
		• (9)		
		• (10)		
		•		
•	•	•	•	•

Daikin Altherma 3 R

The power pact



The Daikin Altherma 3 R is the world's first high capacity R-32 refrigerant split unit, providing cooling next to heating and domestic hot water.

Improved compactness

A redesigned casing
A black horizontal front grille hides the single fan, reducing the perception of sound produced by the unit.

The light grey casing reflects the installation space to help the unit blend into any environment.



A single fan for high-capacity units
Daikin engineers replaced the double fan with one larger fan and optimised its shape to lower the operational sound and improve air circulation.

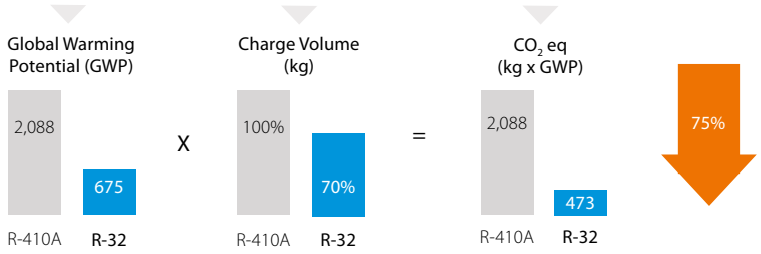


Running on refrigerant R-32

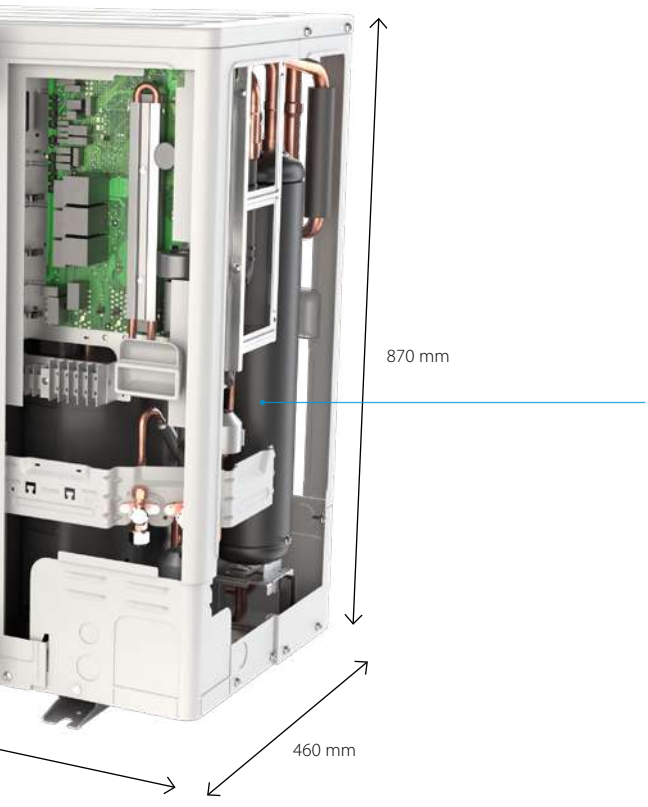
Daikin is a pioneer in launching heat pumps equipped with R-32. With a lower Global Warming Potential (GWP), the R-32 is equivalent in power to standard refrigerants, but achieves higher energy efficiency and lower CO_2 emissions. Easy to recover and reuse, R-32 is the perfect solution for attaining the new European CO_2 emission targets.

Reduced environmental impact: CO_2eq > reduced by 75%

- GWP: R410A: 2,088 > R-32: 675
- 30% less refrigerant charge needed



R-32 BLUEVOLUTION



Ideal for small spaces
Thanks to its single fan, the height is reduced, and its black grille makes it fit discretely in all kind of exteriors.



Check out the improved compactness!



Improved performance

All year round comfort

Daikin Altherma 3 R provides heating efficiently, both for space or domestic water.

With a leaving water temperature of up to 60°C at -7°C outside, the unit is intended for new buildings. The unit operations are ensured down to -25°C outside temperature.

As a low temperature heat pump, it is particularly efficient with low temperature emitters, such as underfloor heating and heat pump convectors, both available in the total Daikin solution.

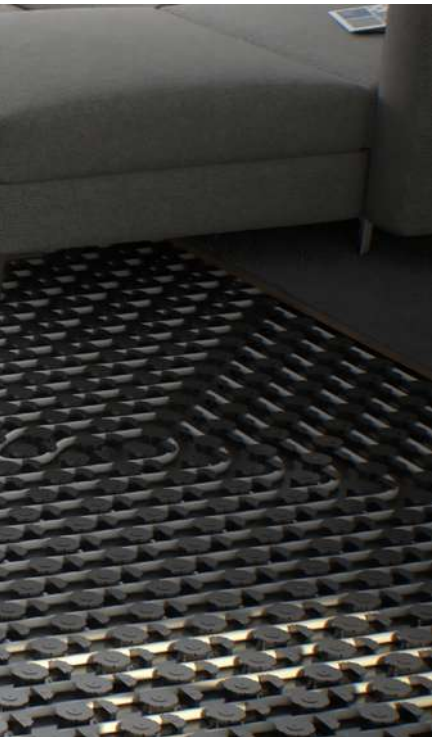


World first in its category

Indeed, Daikin Altherma 3 R is the world first high capacity R-32 refrigerant split heat pump to provide cooling, next to heating!

A patent is also pending for the plate hate exchanger, positioning once more Daikin as the heat pump leader (patent application n°EP3839360).

Check out the improved performance!



Underfloor heating



Heat pump convector



Daikin Altherma 3 R, a complete offer

- ☑ Space Heating
- ☑ Space Cooling
- ☑ Domestic hot water
- ☑ App and voice control
- ☑ Flexible emitter choice
- ☑ All year round peace of mind

DESIGN AWARD 2018

reddot award 2018 winner

R-32

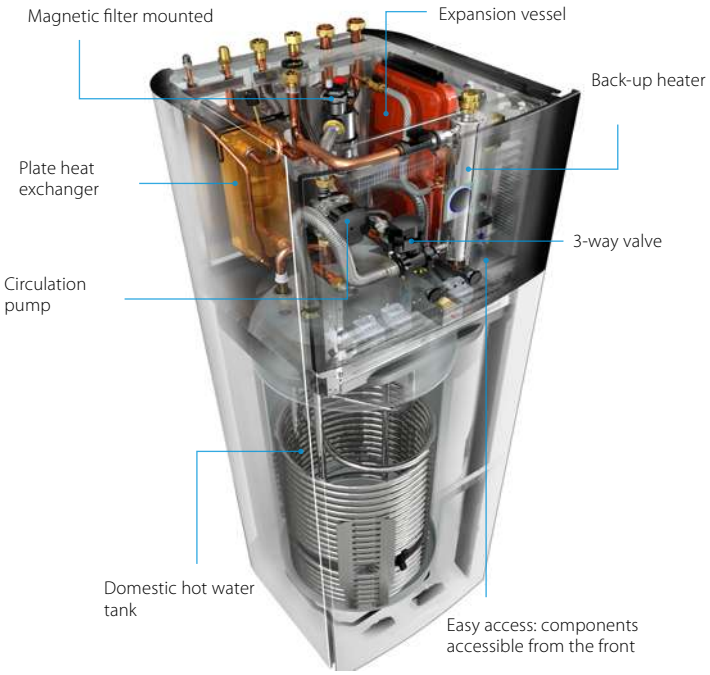
BLUEVOLUTION

Floor standing unit with integrated tank

With a small footprint of 595 x 634 mm, the integrated indoor unit has a similar footprint when compared to other household appliances. The unit is equipped with a tank of 180 or 230 L to answer your domestic hot water demand.



Floor standing air to water heat pump for heating and hot water: EBVH units
Floor standing air to water heat pump for heating, cooling and hot water: EBVX units
Floor standing unit integrated with different temperaturę zones management: EBVZ units





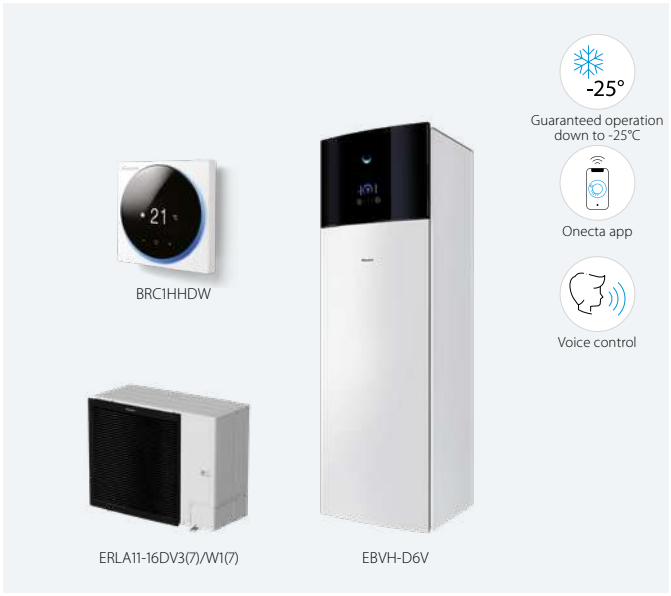
DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R F

Floor standing air to water heat pump for **heating and hot water**

- A combined stainless steel domestic hot water tank of 180 or 230L and heat pump for easy installation
- Inclusion of all hydraulic components means no third party components are required
- PCB board and hydraulic components are located in the front for easy access
- Small installation footprint of 595 x 634 mm
- Integrated back-up heater of 6 or 9 kW



up to A+++ D

A+ F

60 °C

R-32

011-1W0495
011-1W0496
011-1W0497
011-1W0498
011-1W0499
011-1W0500

EBVH-D6V | EBVH-D9W | ERLA11-14DV3 | ERLA11-14DW1 | ERLA-DV37 | ERLA-DW17

Efficiency data				EBVH + ERLA	11S18D6V/9W + 11DV/W	11S23D6V/9W + 11DV/W	16S18D6V/9W + 14DV/W	16S23D6V/9W + 14DV/W	16S18D6V/9W + 16DV7/W7	16S23D6V/9W + 16DV7/W7
Space heating	Average climate water outlet 55°C	General	SCOP		3.23		3.22		3.32	
			ηs (Seasonal space heating efficiency)	%	126				130	
			Seasonal space heating eff. class		A+++					
	Average climate water outlet 35°C	General	SCOP		4.63		4.60		4.61	
			ηs (Seasonal space heating efficiency)	%	182		181			
			Seasonal space heating eff. class		A+++					
Domestic hot water heating	General		Declared load profile		L	XL	L	XL	L	XL
	Average climate		COPdhw		2.73	2.63	2.73	2.63	2.73	2.63
			ηwh (water heating efficiency)	%	116	109	116	109	116	109
			Water heating energy efficiency class		A+	A	A+	A	A+	A

Indoor Unit				EBVH	11S18D6V/9W	11S23D6V/9W	16S18D6V/9W	16S23D6V/9W	16S18D6V/9W	16S23D6V/9W
Casing	Colour				White + Black					
	Material				Precoated sheet metal					
Dimensions	Unit		HeightxWidthxDepth	mm	1,655x595x634	1,855x595x634	1,655x595x634	1,655x595x634	1,655x595x634	1,855x595x634
Weight	Unit			kg	124	133	124	133	124	133
Tank	Water volume			l	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	18 ~ 60					
	Domestic hot water	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	10 ~ 60					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

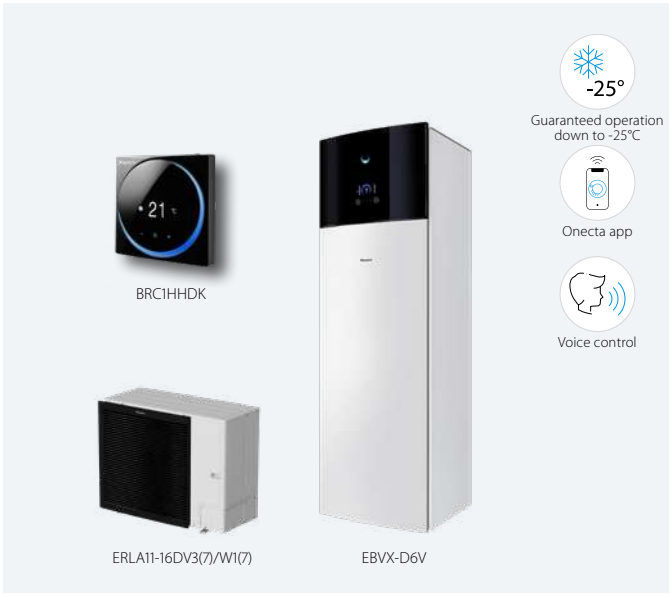
Outdoor Unit				ERLA	11DV3/W1	14DV3/W1	16DV37/W17
Dimensions	Unit		HeightxWidthxDepth	mm	870x1,100x460		
Weight	Unit			kg	101		
Compressor	Quantity				1		
	Type				Hermetically sealed swing inverter compressor		
Operation range	Heating		Min. ~ Max.	°CDB	-25 ~ 35		
	Cooling		Min. ~ Max.	°CDB	10 ~ 43		
	Domestic hot water		Min. ~ Max.	°CDB	-25 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.80		
	Charge			TCO2Eq	2.57		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					62		
Sound pressure level (at 1 meter)	Nom.				48		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1 ~/50/230 / W1/3 ~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

Daikin Altherma 3 R F

Floor standing air to water heat pump for
heating, cooling and hot water

- A combined stainless steel domestic hot water tank of 180 or 230L and heat pump for easy installation
- Inclusion of all hydraulic components means no third party components are required
- PCB board and hydraulic components are located in the front for easy access
- Small installation footprint of 595 x 634 mm
- Integrated back-up heater of 6 or 9 kW



up to A+++ D | A+ F | 60 °C | R-32

011-1W0495
011-1W0496
011-1W0497
011-1W0498
011-1W0499
011-1W0500

EBVX-D6V | EBVX-D9W | ERLA11-14DV3 | ERLA11-14DW1 | ERLA-DV37 | ERLA-DW17

Efficiency data			**EBVX + ERLA**	**11S18D6V/9W + 11DV/W**	**11S23D6V/9W + 11DV/W**	**16S18D6V/9W + 14DV/W**	**16S23D6V/9W + 14DV/W**	**16S18D6V/9W + 16DV7/W7**	**16S23D6V/9W + 16DV7/W7**
Space heating	Average climate water outlet 55°C	General	SCOP	3.27		3.26		3.35	
			ηs (Seasonal space heating efficiency) %	128				131	
			Seasonal space heating eff. class						
	Average climate water outlet 35°C	General	SCOP	4.72		4.68			
			ηs (Seasonal space heating efficiency) %	186		184			
			Seasonal space heating eff. class						
Domestic hot water heating	General	Declared load profile		L	XL	L	XL	L	XL
	Average climate	COPdhw		2.73	2.63	2.73	2.63	2.73	2.63
		ηwh (water heating efficiency) %		116	109	116	109	116	109
		Water heating energy efficiency class							

Indoor Unit				**EBVX**	**11S18D6V/9W**	**11S23D6V/9W**	**16S18D6V/9W**	**16S23D6V/9W**	**16S18D6V/9W**	**16S23D6V/9W**
Casing	Colour				White + Black					
	Material				Precoated sheet metal					
Dimensions	Unit	HeightxWidthxDepth		mm	1,655x595x634	1,855x595x634	1,655x595x634	1,855x595x634	1,655x595x634	1,855x595x634
Weight	Unit			kg	124	133	124	133	124	133
Tank	Water volume			l	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	18 ~ 60					
	Cooling	Ambient	Min. ~ Max.	°C	10 ~ 43					
		Water side	Min. ~ Max.	°C	5 ~ 22					
	Domestic hot water	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	10 ~ 60					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit				**ERLA**	**11DV3/W1**	**14DV3/W1**	**16DV37/W17**
Dimensions	Unit	HeightxWidthxDepth		mm	870x1,100x460		
Weight	Unit			kg	101		
Compressor	Quantity				1		
	Type				Hermetically sealed swing inverter compressor		
Operation range	Heating		Min. ~ Max.	°CDB	-25 ~ 35		
	Cooling		Min. ~ Max.	°CDB	10 ~ 43		
	Domestic hot water		Min. ~ Max.	°CDB	-25 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.80		
	Charge			TCO2Eq	2.57		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					62		
Sound pressure level (at 1 meter)	Nom.				48		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1 ~/50/230 / W1/3 ~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

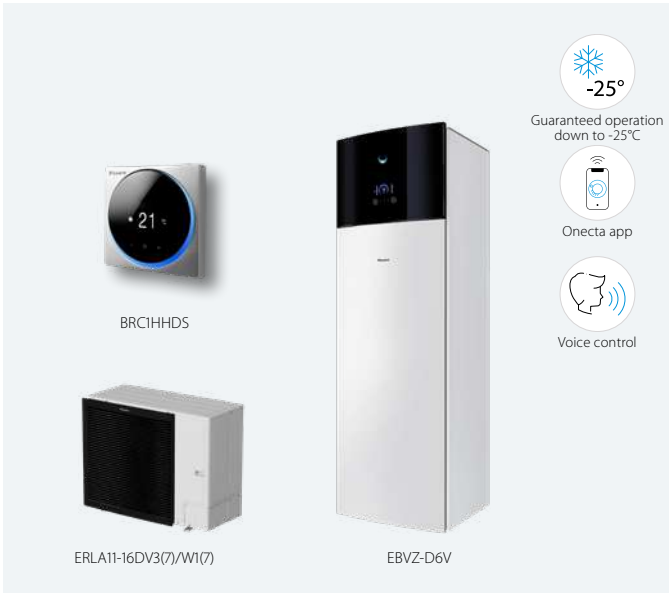
DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R F

Floor standing integrated with **two different temperature zones monitoring**

- A combined stainless steel domestic hot water tank of 180 or 230L and heat pump for easy installation
- Inclusion of all hydraulic components means no third party components are required
- PCB board and hydraulic components are located in the front for easy access
- Small installation footprint of 595 x 634 mm
- Integrated back-up heater of 6 or 9 kW



up to A+++ A+++ D | A+ A+ F | 60 °C | R-32

011-1W0495
011-1W0496
011-1W0497
011-1W0498
011-1W0499
011-1W0500

EBVZ-D6V | EBVZ-D9W | ERLA11-14DV3 | ERLA11-14DW1 | ERLA-DV37 | ERLA-DW17

Efficiency data				EBVZ + ERLA	16S18D6V/9W + 11DV/W	16S23D6V/9W + 11DV/W	16S18D6V/9W + 14DV/W	16S23D6V/9W + 14DV/W	16S18D6V/9W + 16DV7/W7	16S23D6V/9W + 16DV7/W7
Space heating	Average climate water outlet 55°C	General	SCOP		3.23		3.22		3.32	
			ηs (Seasonal space heating efficiency)	%	131		126		130	
			Seasonal space heating eff. class		A++		A++		A++	
	Average climate water outlet 35°C	General	SCOP		4.61		4.60		4.61	
			ηs (Seasonal space heating efficiency)	%	182		181			
			Seasonal space heating eff. class		A+++		A+++			
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COPdhw			2.73	2.63	2.73	2.63	2.73	2.63
		ηwh (water heating efficiency)		%	116	109	116	109	116	109
		Water heating energy efficiency class			A+	A	A+	A	A+	A

Indoor Unit				EBVZ	16S18D6V/9W	16S23D6V/9W	16S18D6V/9W	16S23D6V/9W	16S23D6V/9W	16S23D6V/9W
Casing	Colour				White + Black					
	Material				Precoated sheet metal					
Dimensions	Unit		HeightxWidthxDepth	mm	1,655x595x634	1,855x595x634	1,655x595x634	1,855x595x634	1,655x595x634	1,855x595x634
Weight	Unit			kg	137	145	137	145	137	145
Tank	Water volume			l	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	18 ~ 60					
	Domestic hot water	Ambient	Min. ~ Max.	°C	-25 ~ 25					
		Water side	Min. ~ Max.	°C	10 ~ 60					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit				ERLA	11DV3/W1	14DV3/W1	16DV37/W17
Dimensions	Unit		HeightxWidthxDepth	mm	870x1,100x460		
Weight	Unit			kg	101		
Compressor	Quantity				1		
	Type				Hermetically sealed swing inverter compressor		
Operation range	Heating		Min. ~ Max.	°CDB	-25 ~ 35		
	Cooling		Min. ~ Max.	°CDB	10 ~ 43		
	Domestic hot water		Min. ~ Max.	°CDB	-25 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.80		
	Charge			TCO2Eq	2.57		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					62		
Sound pressure level (at 1 meter)	Nom.				48		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1 ~/50/230 / W1/3 ~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

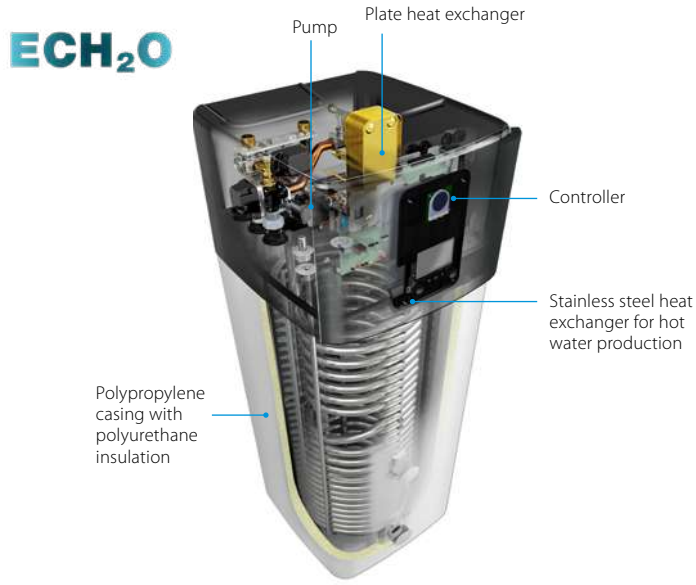


Floor standing unit with integrated ECH$_2$O tank

R-32

BLUEVOLUTION

This model is the most compact unit but needs to be with a separate tank to deliver domestic hot water. The ECH$_2$O unit is equipped with a thermal DHW tank of 300 or 500 L that can be connected to thermal solar panels.





Floor standing air-to-water heat pump for heating and hot water with thermal solar suport: EBSH units
Floor standing air-to-water heat pump for bivalent heating and hot water with thermal solar suport: EBSHB units
Floor standing air-to-water heat pump for heating, cooling and hot water with thermal solar suport: EBSX units
Floor standing air-to-water heat pump for bivalent heating, cooling and hot water with thermal solar suport: EBSXB units

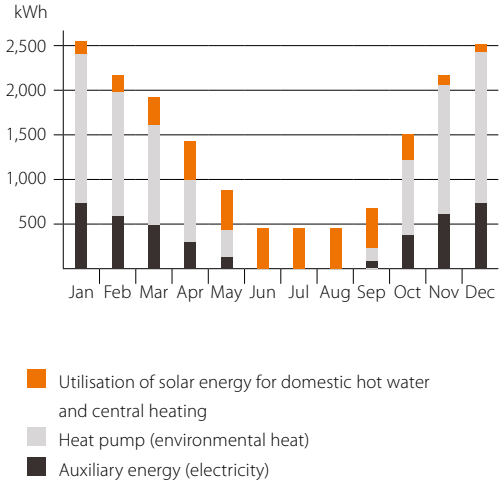
Pressureless (drain-back) solar system EBSH-D, EBSX-D

- The solar collectors are only filled with water when sufficient heating is provided by the sun
- The pumps in the control and pump unit switch on briefly and fill the collectors with storage tank water
- After filling, water circulation is maintained by the remaining pump

Pressurised solar system EBSHB-D, EBSXB-D

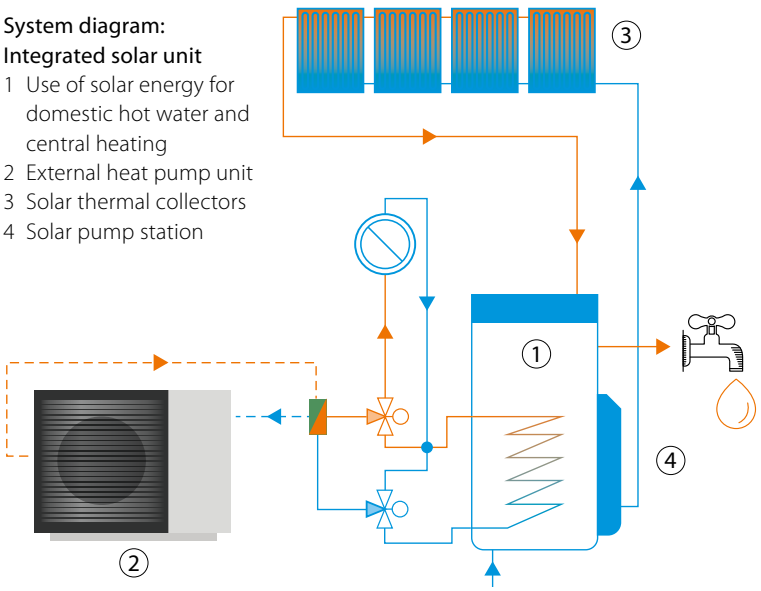
- System is filled with heat transfer fluid with the correct amount of antifreeze to avoid freezing in winter
- System is pressurised and sealed

Monthly energy consumption of an average detached house



System diagram: Integrated solar unit

1 Use of solar energy for domestic hot water and central heating
2 External heat pump unit
3 Solar thermal collectors
4 Solar pump station



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Daikin Altherma 3 R ECH$_2$O

Floor standing air-to-water heat pump for **heating and hot water** with thermal solar support

- Integrated solar unit, offering top comfort in heating and hot water
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Solar support of domestic hot water with pressureless (drain-back) solar system



up to A+++ D

A+ F

60 °C

R-32

011-1W0493
011-1W0494

EBSH-D | ERLA11-14DV3 | ERLA11-14DW1 | ERLA-DV37 | ERLA-DW17

Efficiency data				EBSH + ERLA	11P30D + 11DV/W	11P50D + 11D/W	16P30D + 14DV/W	16P50D + 14DV/W	16P30D + 16DV7/W7	16P50D + 16DV7/W7
Space heating	Average climate water outlet 55°C	General	SCOP		3.23		3.22		3.32	
			ηs (Seasonal space heating efficiency)	%	126				130	
			Seasonal space heating eff. class							
	Average climate water outlet 35°C	General	SCOP		4.63		4.60		4.61	
			ηs (Seasonal space heating efficiency)	%	182		181			
			Seasonal space heating eff. class							
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COPdhw			2.73/2.75	3.05/3.10	2.73/2.75	3.05/3.10	2.73/2.75	3.05/3.10
		ηwh (water heating efficiency)		%	115/116	126/128	115/116	126/128	115/116	126/128
		Water heating energy efficiency class								

Indoor Unit				EBSH	11P30D	11P50D	16P30D	16P50D	16P30D	16P50D
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth		mm	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817
Weight	Unit			kg	93	114	93	114	93	114
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	18 ~ 60					
	Domestic hot water	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	10 ~ 60					
Sound power level	Nom.			dBA	44.70					
Sound pressure level	Nom.			dBA	36.80					

Outdoor Unit				ERLA	11DV3/W1	14DV3/W1	16DV37/W17
Dimensions	Unit	HeightxWidthxDepth		mm	870x1,100x460		
Weight	Unit			kg	101		
Compressor	Quantity				1		
	Type				Hermetically sealed swing inverter compressor		
Operation range	Heating	Min. ~ Max.		°CDB	-25 ~ 35		
	Cooling	Min. ~ Max.		°CDB	10 ~ 43		
	Domestic hot water	Min. ~ Max.		°CDB	-25 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.80		
	Charge			TCO2Eq	2.57		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					62		
Sound pressure level (at 1 meter)	Nom.				48		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1 ~/50/230 / W1/3 ~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

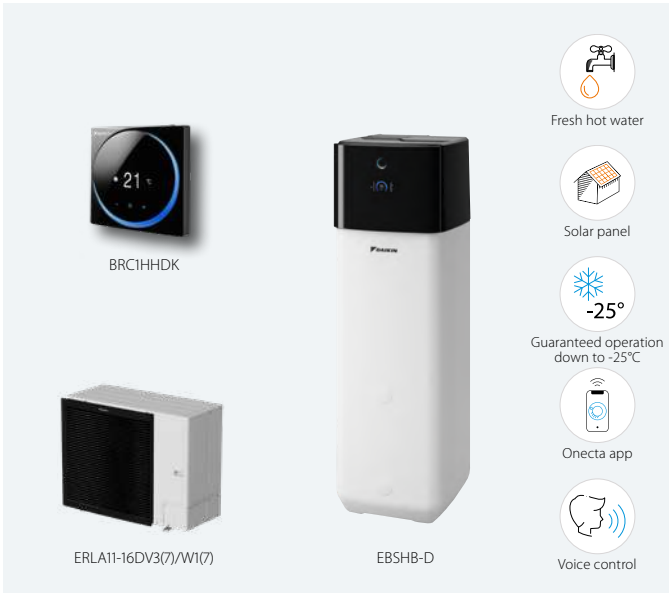
DAIKIN altherma

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Daikin Altherma 3 R ECH$_2$O

Floor standing air-to-water heat pump for bivalent heating and hot water with thermal solar support

- Integrated solar unit, offering top comfort in heating and hot water
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Bivalent system: combinable with a secondary heat source





011-1W0493
011-1W0494

EBSHB-D | ERLA11-14DV3 | ERLA11-14DW1 | ERLA-DV37 | ERLA-DW17

Efficiency data				EBSHB + ERLA	11P30D + 11DV/W	11P50D + 11DV/W	16P30D + 14DV/W	16P50D + 14DV/W	16P30D + 16DV7/W7	16P50D + 16DV7/W7
Space heating	Average climate water outlet 55°C	General	SCOP		3.23		3.22		3.32	
			ηs (Seasonal space heating efficiency)	%	126				130	
			Seasonal space heating eff. class				A+			
	Average climate water outlet 35°C	General	SCOP		4.63		4.60		4.61	
			ηs (Seasonal space heating efficiency)	%	182		181			
			Seasonal space heating eff. class				A+			
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COPdhw			2.73/2.75	3.05/3.10	2.73/2.75	3.05/3.10	2.73/2.75	3.05/3.10
		ηwh (water heating efficiency)		%	115/116	126/128	115/116	126/128	115/116	126/128
		Water heating energy efficiency class					A+			

Indoor Unit				EBSHB	11P30D	11P50D	16P30D	16P50D	16P30D	16P50D
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth		mm	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817
Weight	Unit			kg	94	117	94	117	94	117
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	18 ~ 60					
	Domestic hot water	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	10 ~ 60					
Sound power level	Nom.			dBA	44.70					
Sound pressure level	Nom.			dBA	36.80					

Outdoor Unit				ERLA	11DV3/W1	14DV3/W1	16DV37/W17
Dimensions	Unit	HeightxWidthxDepth		mm	870x1,100x460		
Weight	Unit			kg	101		
Compressor	Quantity				1		
	Type				Hermetically sealed swing inverter compressor		
Operation range	Heating	Min. ~ Max.		°CDB	-25 ~ 35		
	Cooling	Min. ~ Max.		°CDB	10 ~ 43		
	Domestic hot water	Min. ~ Max.		°CDB	-25 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.80		
	Charge			TCO2Eq	2.57		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					62		
Sound pressure level (at 1 meter)	Nom.				48		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1 ~/50/230 / W1/3 ~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

DAIKIN altherma

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Daikin Altherma 3 R ECH$_2$O

Floor standing air-to-water heat pump for **heating, cooling and hot water** with thermal solar support

- Integrated solar unit, offering top comfort in heating, hot water and cooling
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- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Solar support of domestic hot water with pressureless (drain-back) solar system



up to A+++ D | A+ F | 60 °C | R-32

011-1W0493
011-1W0494

EBSX-D | ERLA11-14DV3 | ERLA11-14DW1 | ERLA-DV37 | ERLA-DW17

Efficiency data				**EBSX + ERLA**	**11P30D + 11DV/W**	**11P50D + 11DV/W**	**16P30D + 14DV/W**	**16P50D + 14DV/W**	**16P30D + 16DV7/W7**	**16P50D + 16DV7/W7**
Space heating	Average climate water outlet 55°C	General	SCOP		3.27		3.26		3.35	
			ηs (Seasonal space heating efficiency)	%	128				131	
			Seasonal space heating eff. class							
	Average climate water outlet 35°C	General	SCOP		4.72		4.68			
			ηs (Seasonal space heating efficiency)	%	186		184			
			Seasonal space heating eff. class							
Domestic hot water heating	General		Declared load profile		L	XL	L	XL	L	XL
	Average climate		COPdhw		2.73/2.75	3.05/3.10	2.73/2.75	3.05/3.10	2.73/2.75	3.05/3.10
			ηwh (water heating efficiency)	%	115/116	126/128	115/116	126/128	115/116	126/128
			Water heating energy efficiency class							

Indoor Unit				**EBSX**	**11P30D**	**11P50D**	**16P30D**	**16P50D**	**16P30D**	**16P50D**
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit		HeightxWidthxDepth	mm	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817
Weight	Unit			kg	93	114	93	114	93	114
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	18 ~ 60					
	Cooling	Ambient	Min. ~ Max.	°C	10 ~ 43					
		Water side	Min. ~ Max.	°C	5 ~ 22					
	Domestic hot water	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	10 ~ 60					
Sound power level	Nom.			dBA	44.70					
Sound pressure level	Nom.			dBA	36.80					

Outdoor Unit				**ERLA**	**11DV3/W1**	**14DV3/W1**	**16DV37/W17**
Dimensions	Unit		HeightxWidthxDepth	mm	870x1,100x460		
Weight	Unit			kg	101		
Compressor	Quantity				1		
	Type				Hermetically sealed swing inverter compressor		
Operation range	Heating	Min. ~ Max.		°CDB	-25 ~ 35		
	Cooling	Min. ~ Max.		°CDB	10 ~ 43		
	Domestic hot water	Min. ~ Max.		°CDB	-25 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.80		
	Charge			TCO2Eq	2.57		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					62		
Sound pressure level (at 1 meter)	Nom.				48		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1 ~/50/230 / W1/3 ~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

DAIKIN altherma

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Daikin Altherma 3 R ECH$_2$O

Floor standing air-to-water heat pump for **bivalent heating, cooling and hot water** with thermal solar support

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- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Bivalent system: combinable with a secondary heat source





011-1W0493
011-1W0494

EBSXB-D | ERLA11-14DV3 | ERLA11-14DW1 | ERLA-DV37 | ERLA-DW17

Efficiency data				EBSXB + ERLA	11P30D + 11DV/W	11P50D + 11DV/W	16P30D + 14DV/W	16P50D + 14DV/W	16P30D + 16DV7/W7	16P50D + 16DV7/W7
Space heating	Average climate water outlet 55°C	General	SCOP		3.27		3.26		3.35	
			ηs (Seasonal space heating efficiency)	%	128				131	
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35°C	General	SCOP		4.72		4.68			
			ηs (Seasonal space heating efficiency)	%	186		184			
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General		Declared load profile		L	XL	L	XL	L	XL
	Average climate		COPdhw		2.73/2.75	3.05/3.10	2.73/2.75	3.05/3.10	2.73/2.75	3.05/3.10
			ηwh (water heating efficiency)	%	115/116	126/128	115/116	126/128	115/116	126/128
			Water heating energy efficiency class		A+					

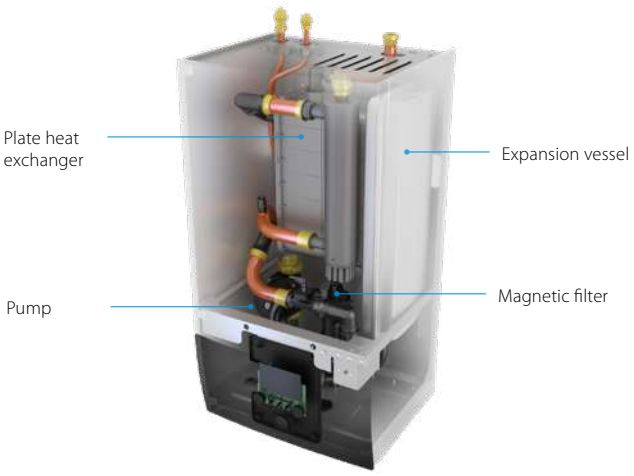
Indoor Unit				EBSXB	11P30D	11P50D	16P30D	16P50D	16P30D	16P50D
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit		HeightxWidthxDepth	mm	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817
Weight	Unit			kg	94	117	94	117	94	117
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	18 ~ 60					
	Cooling	Ambient	Min. ~ Max.	°C	10 ~ 43					
		Water side	Min. ~ Max.	°C	5 ~ 22					
	Domestic hot water	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	-25 ~ 35					
Sound power level	Nom.			dBA	44.70					
Sound pressure level	Nom.			dBA	36.80					

Outdoor Unit				ERLA	11DV3/W1	14DV3/W1	16DV37/W17
Dimensions	Unit		HeightxWidthxDepth	mm	870x1,100x460		
Weight	Unit			kg	101		
Compressor	Quantity				1		
	Type				Hermetically sealed swing inverter compressor		
Operation range	Heating		Min. ~ Max.	°CDB	-25 ~ 35		
	Cooling		Min. ~ Max.	°CDB	10 ~ 43		
	Domestic hot water		Min. ~ Max.	°CDB	-25 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.80		
	Charge			TCO2Eq	2.57		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					62		
Sound pressure level (at 1 meter)	Nom.				48		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1 ~/50/230 / W1/3 ~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

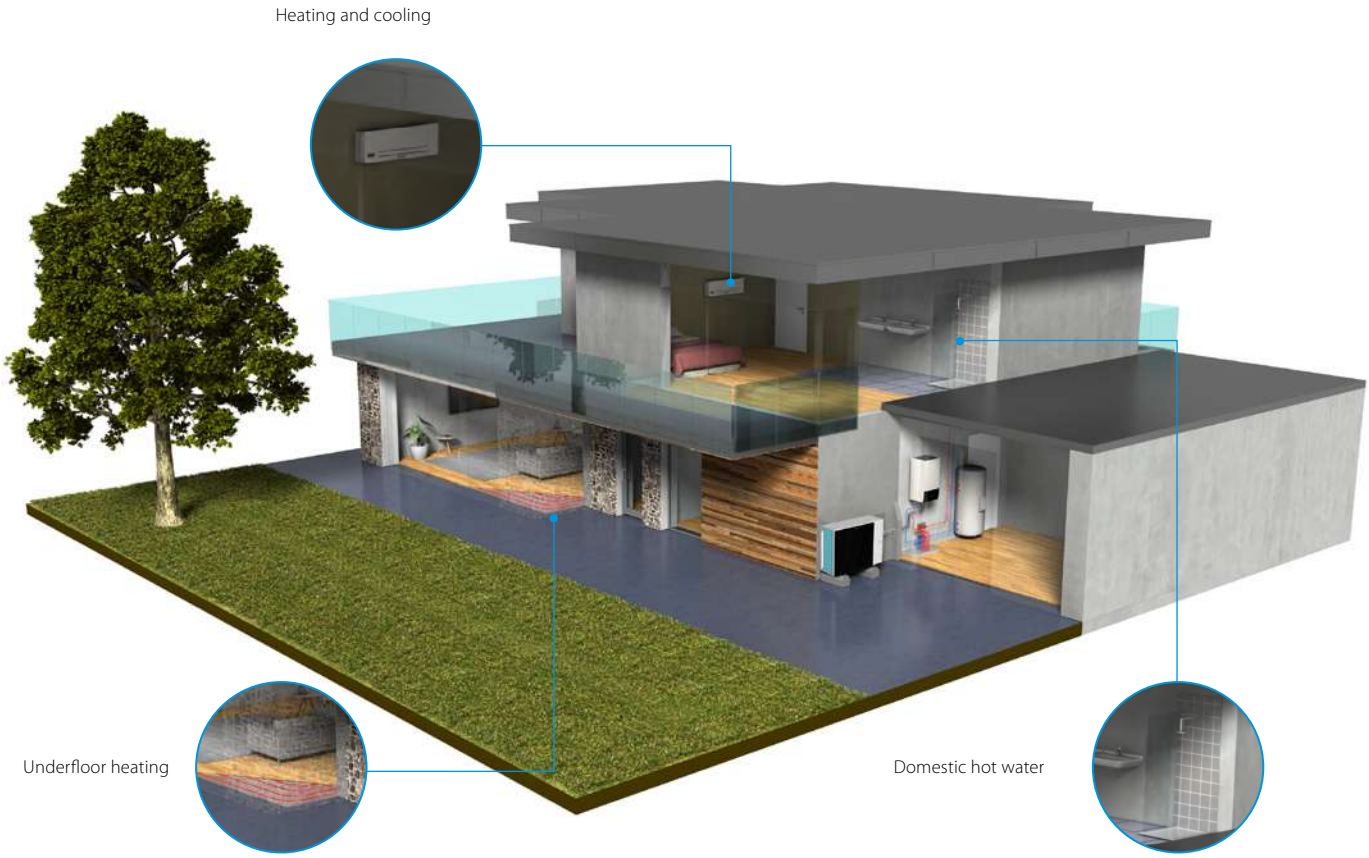
Wall mounted unit

This model is the most compact unit for heating and cooling with high flexibility for a quick and easy installation, with an optional connection to domestic hot water.





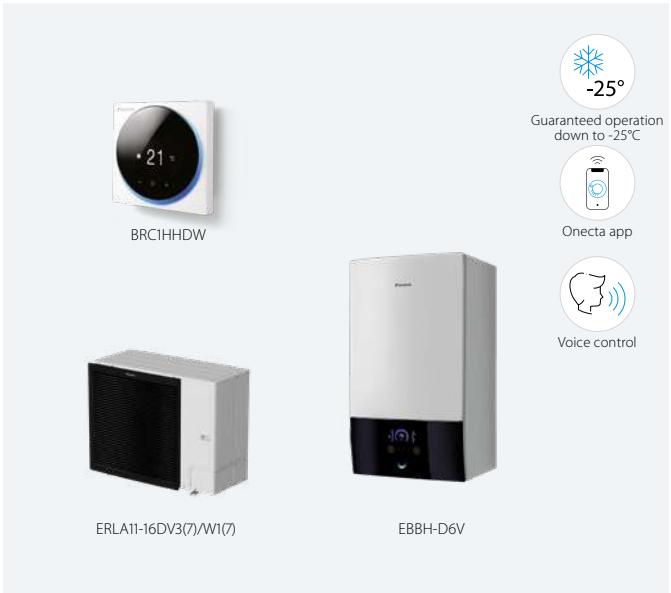
Wall mounted heating only air-to-water heat pump: ETBH units
Wall mounted reversible air-to-water heat pump: ETBX units
Example of installation with a stainless steel domestic hot water tank.



Daikin Altherma 3 R W

Wall mounted **heating only** air-to-water heat pump

- Inclusion of all hydraulic components means no third party components are required
- PCB board and hydraulic components are located in the front for easy access
- Compact dimensions allows for small installation space, as almost no side clearances are required
- The unit's sleek design blends in with other household appliances
- Combine with a stainless steel tank or ECH$_2$O thermal store



up to A+++ (A+++ to D)

60 °C

R-32

011-1W0498
011-1W0499
011-1W0500

EBBH-D6V | EBBH-D9W | ERLA11-14DV3 | ERLA11-14DW1 | ERLA-DV37 | ERLA-DW17

Efficiency data			**EBBH + ERLA**	**11D6V + 11DV/W**	**11D9W + 11DV/W**	**16D6V + 14DV/W**	**16D9W + 14DV/W**	**16D6V + 16DV7/W7**	**16D9W + 16DV7/W7**
Space heating	Average climate water outlet 55°C	General	SCOP	3.23		3.22		3.32	
			ηs (Seasonal space heating efficiency) %	126				130	
			Seasonal space heating eff. class						
	Average climate water outlet 35°C	General	SCOP	4.63		4.60		4.61	
			ηs (Seasonal space heating efficiency) %	182		181			
			Seasonal space heating eff. class						

Indoor Unit				**EBBH**	**11D6V**	**11D9W**	**16D6V**	**16D9W**	**16D6V**	**16D9W**
Casing	Colour				White + Black					
	Material				Resin, sheet metal					
Dimensions	Unit		HeightxWidthxDepth	mm	840x440x390					
Weight	Unit			kg	52.50		54.50			
Operation range	Heating	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	18 ~ 60					
	Domestic hot water	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	10 ~ 60					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit			**ERLA**	**11DV3/W1**	**14DV3/W1**	**16DV37/W17**
Dimensions	Unit	HeightxWidthxDepth	mm	870x1,100x460		
Weight	Unit		kg	101		
Compressor	Quantity			1		
	Type			Hermetically sealed swing inverter compressor		
Operation range	Heating	Min. ~ Max.	°CDB	-25 ~ 35		
	Cooling	Min. ~ Max.	°CDB	10 ~ 43		
	Domestic hot water	Min. ~ Max.	°CDB	-25 ~ 35		
Refrigerant	Type			R-32		
	GWP			675		
	Charge		kg	3.80		
	Charge		TCO2Eq	2.57		
	Control			Expansion valve		
LW(A) Sound power level (according to EN14825)				62		
Sound pressure level (at 1 meter)	Nom.			48		
Power supply	Name/Phase/Frequency/Voltage		Hz/V	V3/1 ~/50/230 / W1/3 ~/50/400		
Current	Recommended fuses		A	32/16		

This product contains fluorinated greenhouse gases.

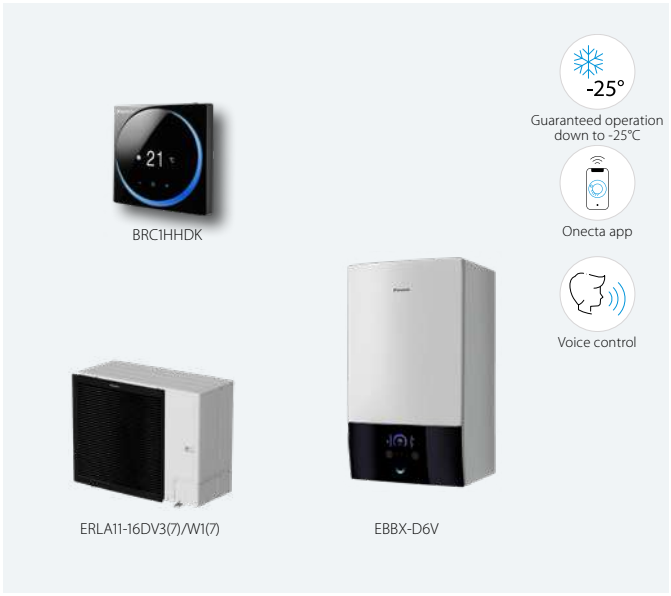
DAIKIN altherma

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Daikin Altherma 3 R W

Wall mounted **reversible** air-to-water heat pump

- Inclusion of all hydraulic components means no third party components are required
- PCB board and hydraulic components are located in the front for easy access
- Compact dimensions allows for small installation space, as almost no side clearances are required
- The unit's sleek design blends in with other household appliances
- Combine with a stainless steel tank or ECH$_2$O thermal store



up to A+++ (A+++ to D)

60 °C

R-32

011-1W0498
011-1W0499
011-1W0500

EBBX-D6V | EBBX-D9W | ERLA11-14DV3 | ERLA11-14DW1 | ERLA-DV37 | ERLA-DW17

Efficiency data				EBBX + ERLA	11D6V + 11DV/W	11D9W + 11DV/W	16D6V + 14DV/W	16D9W + 14DV/W	16D6V + 16DV7/W7	16D9W + 16DV7/W7
Space heating	Average climate water outlet 55°C	General	SCOP		3.27		3.26		3.35	
			ηs (Seasonal space heating efficiency)	%	128				131	
			Seasonal space heating eff. class							
	Average climate water outlet 35°C	General	SCOP		4.72		4.68			
			ηs (Seasonal space heating efficiency)	%	186		184			
			Seasonal space heating eff. class							

Indoor Unit				EBBX	11D6V	11D9W	16D6V	16D9W	16D6V	16D9W
Casing	Colour				White + Black					
	Material				Resin, sheet metal					
Dimensions	Unit		HeightxWidthxDepth	mm	840x440x390					
Weight	Unit			kg	52.50		54.50			
Operation range	Heating	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	18 ~ 60					
	Cooling	Ambient	Min. ~ Max.	°C	10 ~ 43					
		Water side	Min. ~ Max.	°C	5 ~ 22					
	Domestic hot water	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	10 ~ 60					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit			ERLA	11DV3/W1	14DV3/W1	16DV37/W17
Dimensions	Unit	HeightxWidthxDepth	mm	870x1,100x460		
Weight	Unit		kg	101		
Compressor	Quantity			1		
	Type			Hermetically sealed swing inverter compressor		
Operation range	Heating	Min. ~ Max.	°CDB	-25 ~ 35		
	Cooling	Min. ~ Max.	°CDB	10 ~ 43		
	Domestic hot water	Min. ~ Max.	°CDB	-25 ~ 35		
Refrigerant	Type			R-32		
	GWP			675		
	Charge		kg	3.80		
	Charge		TCO2Eq	2.57		
	Control			Expansion valve		
LW(A) Sound power level (according to EN14825)				62		
Sound pressure level (at 1 meter)	Nom.			48		
Power supply	Name/Phase/Frequency/Voltage		Hz/V	V3/1 ~/50/230 / W1/3 ~/50/400		
Current	Recommended fuses		A	32/16		

This product contains fluorinated greenhouse gases.

Combination table and options

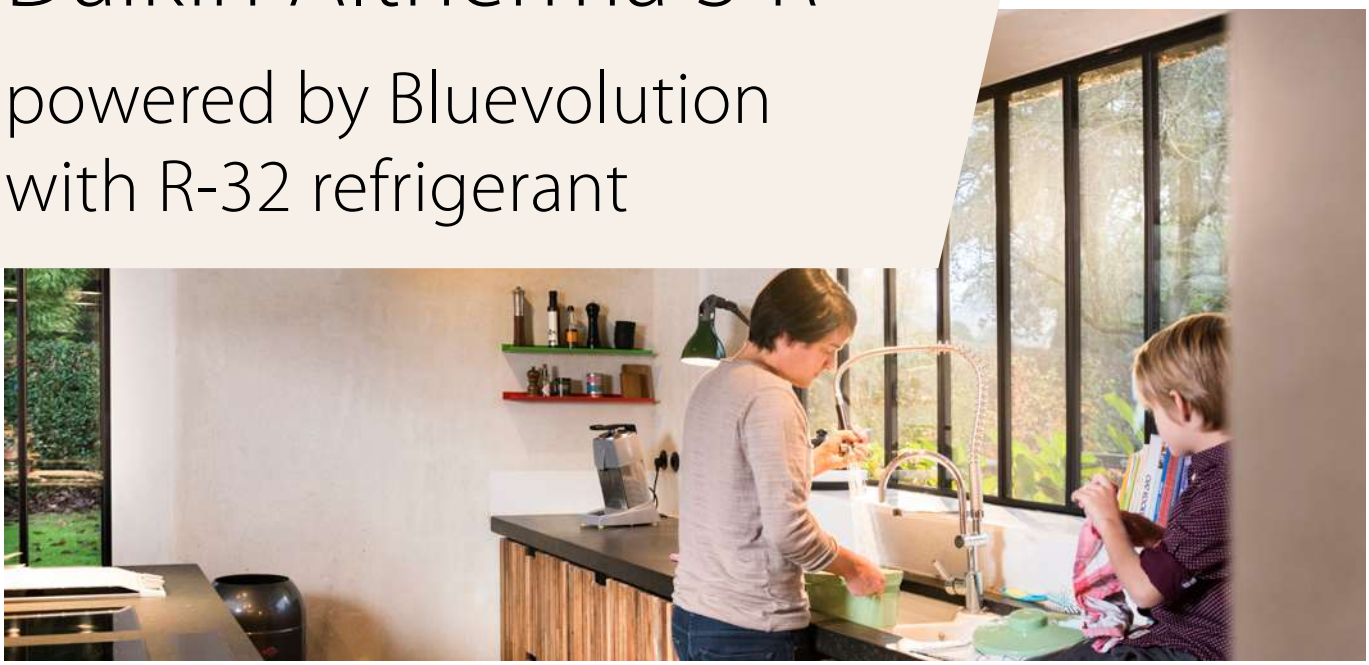
			Floor standing integrated stainless steel tank			
			H/O		Reversible	
			11 class	16 class	11 class	16 class
			EBVH11S18D6V	EBVH16S18D6V	EBVX11S18D6V	EBVX16S18D6V
			EBVH11S18D9W	EBVH16S18D9W	EBVX11S18D9W	EBVX16S18D9W
			EBVH11S23D6V	EBVH16S23D6V	EBVX11S23D6V	EBVX16S23D6V
			EBVH11S23D9W	EBVH16S23D9W	EBVX11S23D9W	EBVX16S23D9W
Type	**Description**	**Material name**				
Outdoor unit	4kW	ERLA11DV3/W1	•		•	
	6kW	ERLA14DV3/W1		•		•
	8kW	ERLA16DV37/W17		•		•
Controls	Madoka wired room thermostat	BRC1HHDK/S/W(7)	•	•	•	•
	Wireless room thermostat	EKRTRB	•	•	•	•
	Wired digital thermostat	EKRTWA	•	•	•	•
	Wireless room by room control	Daikin Home Controls (page 288)	•	•	•	•
	LAN adapter	BRP069A62 (with MMI from v6.8.0)	•	•	•	•
	WLAN module	BRP069A71	•	•	•	•
	WLAN cartridge	BRP069A78	•	•	•	•
	Wired digital thermostat	EKWCTRDI1V3	•	•	•	•
	Wired analog thermostat	EKWCTRAN1V3	•	•	•	•
	Valve actuator	EKWCVATR1V3	•	•	•	•
	Wired underfloor heating base station	EKWUFHTA1V3	•	•	•	•
	Universal centralised controller	EKCC9-W, DCOM-LT/IO, LT/MB	•	•	•	•
Domestic hot water	Stainless steel tank	EKHWS(P)(U)150D3V3				
		EKHWS(P)(U)180D3V3				
		EKHWS(P)(U)200D3V3				
		EKHWS(P)(U)250D3V3				
		EKHWS(P)(U)300D3V3				
	Polypropylene tank	EKHWP300B				
		EKHWP500B				
		EKHWP300PB				
		EKHWP500PB				
	Third party tank kit	EKHY3PART				
		EKHY3PART2				
Sensors	External sensor for EKRTRB room thermostat	EKRTETS	• (5)	• (5)	• (5)	• (5)
	High voltage smart grid relay kit	EKRELSG	•	•	•	•
	Remote indoor temperature sensor	KRCS01-1	• (6)	• (6)	• (6)	• (6)
	Remote outdoor temperature sensor	EKRSCA1	• (6)	• (6)	• (6)	• (6)
Bizone kits	Generic Bizone kit (PCB only)	EKMIKPOA	•	•	•	•
	Generic Bizone kit	EKMIKPHA	•	•	•	•
Other options	Digital I/O PCB	EKRP1HBA	• (7)	• (7)	• (7)	• (7)
	Demand PCB	EKRP1AHT	•	•	•	•
	PC USB cable	EKPCCAB4	•	•	•	•
	Balancing valve	KBLNVALVE	•	•	•	•
	Decoupler	KDECOUP	•	•	•	•
ECH_2O options	Inline BUH - connection kit	EKECBUCO2AF				
	Inline BUH - 3kW, for *3V (1N ~, 230 V, 3 kW)	EKECBUAF3V				
	Inline BUH - 6kW, for *6V (1N ~, 230 V, 6 kW)	EKECBUAF6V				
	Inline BUH - 9kW, for *9 WN (3N ~, 400 V, 9 kW)	EKECBUAF9W				
	Caleffi sludge and magnetite separator SAS1	156021				
	Biv Connector Kit	EKECBIVCO2AF				
	DB connector Kit	EKECDBCO2AF				

(1) Dedicated connection kit: EKEPRHLT3HX.
(2) Dedicated connection kit: ETBH: EKEPRHLT5H / ETBX: EKEPRHLT5X.
(3) EKHY3PART can be used if you have a tank in which you can insert the thermistor.
(4) EKHY3PART2 can be used if you have a tank in which you can't insert a thermistor.
(5) Can only be used in combination with the wireless room thermostat EKRTRB.
(6) Only one sensor can be connected: indoor or outdoor.
(7) Additional relays to allow bivalent control in combination with external room thermostat are field supply.
(8) Only 1 Backup heater can be connected on one unit: 3 or 6* or 9 kW (*No 6T1-model applicable). EKECBUCO1AF is needed to connect the backup heater to the main unit.

	Floor standing integrated ECH_2O				Wall mounted			
Bizone	**Drain-back**		**Bivalent**		**H/O**		**Reversible**	
16 class	**11 class**	**16 class**	**11 class**	**16 class**	**11 class**	**16 class**	**11 class**	**16 class**
EBVZ16S18D6V	**EBSH11P30D**	**EBSH16P30D**	**EBSHB11P30D**	**EBSHB16P30D**				
EBVZ16S18D9W	**EBSH11P50D**	**EBSH11P50D**	**EBSHB11P50D**	**EBSHB16P50D**				
EBVZ16S23D6V	**EBSX11P30D**	**EBSX11P30D**	**EBSXB11P30D**	**EBSXB16P30D**	**EBBH11D6V**	**EBBH16D6V**	**EBBX11D6V**	**EBBX16D6V**
EBVZ16S23D9W	**EBSX11P50D**	**EBSX11P50D**	**EBSXB11P50D**	**EBSXB16P50D**	**EBBH11D9W**	**EBBH16D9W**	**EBBX11D9W**	**EBBX16D9W**
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					• (2)	• (2)	• (2)	• (2)
					• (1)	• (1)	• (1)	• (1)
					• (2)	• (2)	• (2)	• (2)
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					• (4)	• (4)	• (4)	• (4)
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• (7)					• (7)	• (7)	• (7)	• (7)
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Daikin Altherma 3 R

powered by Bluevolution with R-32 refrigerant



Why choose **Daikin Altherma 3 R?**

Bluevolution technology combines very high efficient compressors developed by Daikin with the future of refrigerants: R-32.



Unique on the market

High performance

- Leaving water temperature up to 65 °C at high efficiency
- Suitable for both underfloor heating and radiators
- Pedigree trademark in frost protection down to -25 °C, ensuring reliable operation even in the coldest climates

- The Bluevolution technology offers the highest performance:
  - Seasonal efficiency up to A+++
  - Heating efficiency up to a COP of 5.1 (at 7 °C/35 °C)
  - Domestic hot water efficiency up to COP of 3.3 (EN16147)
- Available in 4, 6 and 8 kW

Easy to install

- Delivered ready to operate: all key hydraulic elements are factory mounted
- All servicing can be done from the front and all pipings can be accessed at the top of the unit
- Black and white modern design
- Reduced installation time: the outdoor unit is tested and charged with refrigerant

Easy commissioning

- Integrated high resolution colour interface
- Quick wizard allowing commissioning in maximum 9 easy steps to have the full system ready to operate
- Configuration can take place remotely to upload later on the unit after the day of the installation

Easy to control

- The combined effect of the Daikin Altherma weather dependent set-point controls and its inverter compressor ensures consistent room temperatures at all times.
- Control your system from anywhere at any time via the Onecta app. This online controller allows adjustment of home comfort levels to suit individual preferences while achieving further energy efficiencies. The R-32 Daikin Altherma 3 R range can also be fully integrated with other home control systems

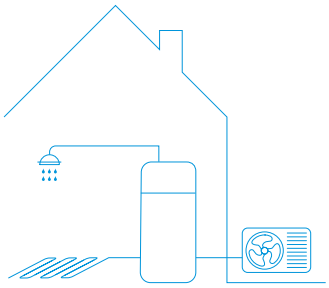
Control with Onecta app

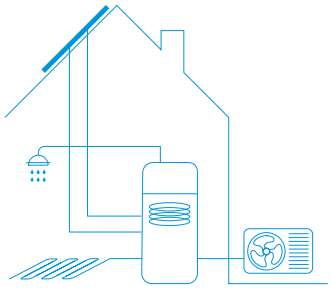


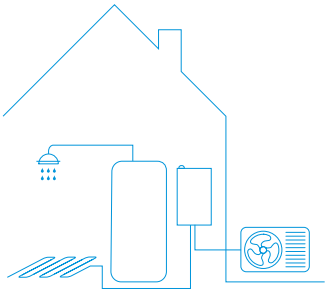
Daikin Altherma 3 R offers a wide range to adapt to your customers needs

- **Best seasonal efficiencies** providing the highest savings on running costs
- Perfect fit for **new buildings,** as well as for low energy houses
- A leaving water temperature up to 65 °C makes it also **a suitable choice for refurbishments**

To cover all applications, the Daikin Altherma 3 R is available in 3 different indoor units







Daikin Altherma 3 R F

Floor standing unit with integrated domestic hot water tank
Compact and yet 100% comfort guaranteed

- All components and connections are factory mounted
- Very small 595 x 625 mm installation footprint required
- Minimum electrical input with constantly available hot water
- Dedicated Bi-Zone models available: two temperature zones automatically regulated by the same indoor unit
- Modern stylish design available in white or silver-grey
- Compatible with the Onecta app
- Voice control available

Daikin Altherma 3 R ECH$_2$O

Floor standing unit with integrated ECH$_2$O tank
Integrated solar unit and domestic hot water tank

- Maximising renewable energy with top comfort for hot water preparation
- Solar support for domestic hot water
- Lightweight plastic tank
- Bivalent option: can be combined with a secondary heat source
- App control available
-

Daikin Altherma 3 R W

Wall mounted unit
High flexibility for installation and domestic hot water connection

- Compact unit with small installation (almost no side clearance is required)
- Can be combined with a space separate domestic hot water tank up to 500 litres, with or without solar support
- Stylish modern design
- Compatible with the Onecta app
- Voice control available

DESIGN AWARD 2018

reddot award 2018 winner

R-32

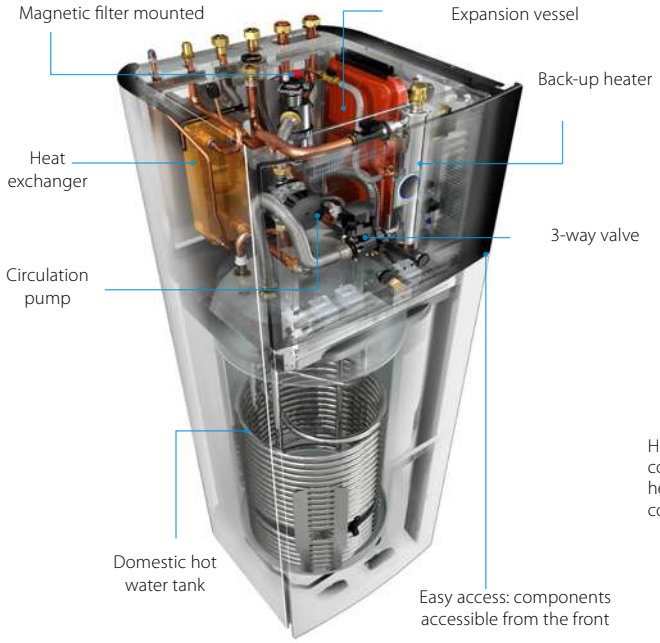
BLUEVOLUTION

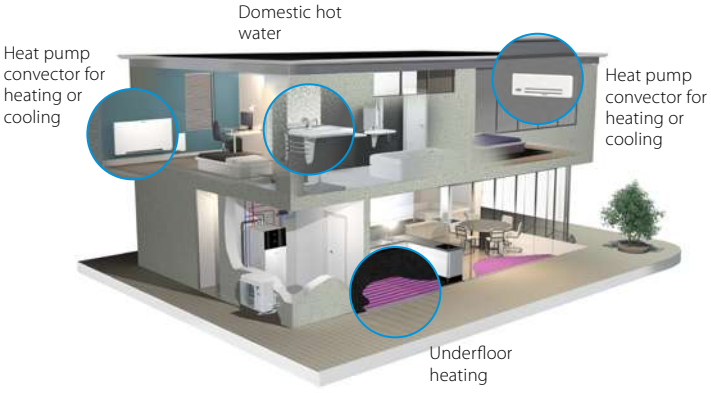
Floor standing unit with integrated tank

With a small footprint of 595 x 625 mm, the integrated indoor unit has a similar footprint when compared to other household appliances. The unit is equipped with a tank of 180 or 230 L to answer your domestic hot water demand.



Floor standing air to water heat pump for heating and hot water: EHVH units
Floor standing air to water heat pump for heating, cooling and hot water: EHVX units
Floor standing unit integrated with different temperaturę zones management: EHVZ units





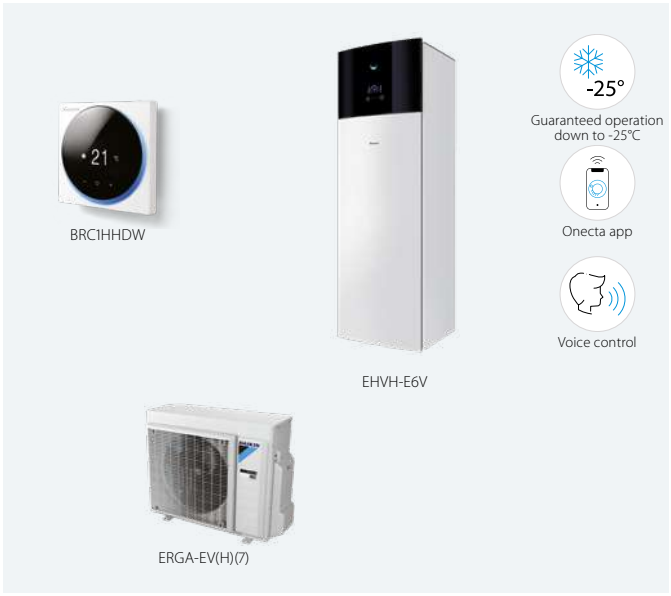
DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R F

Floor standing air to water heat pump for **heating and hot water**; ideal for low energy houses

- A combined stainless steel domestic hot water tank of 180 or 230 L and heat pump for easy installation
- Inclusion of all hydraulic components means no third party components are required
- PCB board and hydraulic components are located in the front for easy access
- Small installation footprint of 595 x 625 mm
- Integrated back-up heater choice of 6 or 9 kW
- Outdoor unit extracts heat from the outdoor air, even at -25 °C
- Compatible with the Onecta app
- Voice control available





011-1W0218 → 222
011-1W0245, 247
011-1W0249 → 251

EHVH-E6V EHVH-E9W ERGA-EV ERGA-EVH ERGA-EVH7

Efficiency data				EHVH + ERGA	04S18E6V + 04EV	04S23E6V + 04EV	08S18E6V/9W + 06EVH	08S23E6V/9W + 06EVH	08S18E6V/9W + 08EVH7	08S23E6VE/9W + 08EVH7
Heating capacity	Nom.			kW	4.30 (1)/4.60 (2)		6.00 (1)/5.90 (2)		7.50 (1)/7.80 (2)	
Power input	Heating	Nom.		kW	0.850 (1)/1.26 (2)		1.24 (1)/1.69 (2)		1.63 (1)/2.23 (2)	
COP					5.10 (1)/3.65 (2)		4.85 (1)/3.50 (2)		4.60 (1)/3.50 (2)	
Space heating	Average climate water outlet 55 °C	General	SCOP		3.26				3.32	
			ηs (Seasonal space heating efficiency)	%	127				130	
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.48		4.47		4.56	
			ηs (Seasonal space heating efficiency)	%	176				179	
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	ηwh (water heating efficiency)		%	125	133	125	133	125	133
		Water heating energy efficiency class			A					

Indoor Unit				EHVH	04S18E6V	04S23E6V	08S18E6V/E9W	08S23E6V/E9W	08S18E6V/E9W	08S23E6V/E9W
Casing	Colour				White + Black					
	Material				Resin / Sheet metal					
Dimensions	Unit	HeightxWidthxDepth		mm	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625
Weight	Unit			kg	119	128	119	128	119	128
Tank	Water volume			l	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min.~Max.	°C	5~30					
		Water side	Min.~Max.	°C	15 ~65					
	Domestic hot water	Ambient	Min.~Max.	°CDB	5~35					
		Water side	Max.	°C	70					
Sound power level	Nom.			dBA	42					
Sound pressure level	Nom.			dBA	28					

Outdoor Unit				ERGA	04EV	06EVH	08EVH7
Dimensions	Unit	HeightxWidthxDepth		mm	740x884x388		
Weight	Unit			kg	58.5		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Cooling		Min.~Max.	°CDB	10~43		
	Domestic hot water		Min.~Max.	°CDB	-25~35		
Refrigerant	Type				R-32		
	GWP				675.0		
	Charge			kg	1.50		
	Charge			TCO_2Eq	1.01		
	Control				Expansion valve		
Sound power level	Heating		Nom.	dBA	58	60	62
	Cooling		Nom.	dBA	61	62	
Sound pressure level	Heating		Nom.	dBA	44	47	49
	Cooling		Nom.	dBA	48	49	50
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1N~/50/230		
Current	Recommended fuses			A	25		

(1) Cooling Ta 35 °C - LWE 18 °C (DT = 5 °C); heating Ta DB/WB 7 °C/6 °C - LWC 35 °C (DT = 5 °C) (2) Cooling Ta 35 °C - LWE 7 °C (DT = 5 °C); heating Ta DB/WB 7 °C/6 °C - LWC 45 °C (DT = 5 °C).
This product contains fluorinated greenhouse gases.

Daikin Altherma 3 R F

Floor standing air to water heat pump for **heating, cooling and hot water**; ideal for low energy houses

- A combined stainless steel domestic hot water tank of 180 or 230 L and heat pump for easy installation
- Inclusion of all hydraulic components means no third party components are required
- PCB board and hydraulic components are located in the front for easy access
- Small installation footprint of 595 x 625 mm
- Integrated back-up heater choice of 3, 6, 9 kW
- Outdoor unit extracts heat from the outdoor air, even at -25 °C
- Compatible with the Onecta app
- Voice control available



up to A+++ D | A+ F | 65 °C | R-32

011-1W0218 → 222
011-1W0245, 247
011-1W0249 → 251

EHVX-E3V | EHVX-E6V | EHVX-E9W | ERGA-EV | ERGA-EVH | ERGA-EVH7

Efficiency data				EHVX + ERGA	04S18E3V/E6V + 04EV	04S23E3V/E6V + 04EV	08S18E6V/E9W + 06EVH	08S23E6V/E9W + 06EVH	08S18E6V/E9W + 08EVH7	08S23E6V/E9W + 08EVH7
Heating capacity	Nom.			kW	4.30 (1)/4.60 (2)		6.00 (1)/5.90 (2)		7.50 (1)/7.80 (2)	
Power input	Heating	Nom.		kW	0.850 (1)/1.26 (2)		1.24 (1)/1.69 (2)		1.63 (1)/2.23 (2)	
Cooling capacity	Nom.			kW	4.86 (1)/4.52 (2)		5.96 (1)/5.09 (2)		6.25 (1)/5.44 (2)	
Power input	Cooling	Nom.		kW	0.810 (1)/1.36 (2)		1.06 (1)/1.55 (2)		1.16 (1)/1.73 (2)	
COP					5.10 (1)/3.65 (2)		4.85 (1)/3.50 (2)		4.60 (1)/3.50 (2)	
EER					5.98 (1)/3.32 (2)		5.61 (1)/3.28 (2)		5.40 (1)/3.14 (2)	
Space heating	Average climate water outlet 55 °C	General	SCOP		3.29		3.28		3.35	
			ηs (Seasonal space heating efficiency)	%	129		128		131	
			Seasonal space heating eff. class							
	Average climate water outlet 35 °C	General	SCOP		4.54		4.52		4.61	
			ηs (Seasonal space heating efficiency)	%	179		178		181	
			Seasonal space heating eff. class							
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	ηwh (water heating efficiency)		%	127	125	134	133	125	133	125	133
		Water heating energy efficiency class								

Indoor Unit				EHVX	04S18E3V/E6V	04S23E3V/E6V	08S18E6V/E9W	08S23E6V/E9W	08S18E6V/E9W	08S23E6V/E9W
Casing	Colour				White + Black					
	Material				Resin / Sheet metal					
Dimensions	Unit	HeightxWidthxDepth		mm	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625
Weight	Unit			kg	119	128	119	128	119	128
Tank	Water volume			l	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min.~Max.	°C	5~30					
		Water side	Min.~Max.	°C	15 ~65					
	Cooling	Ambient	Min.~Max.	°CDB	5~35					
		Water side	Min.~Max.	°C	5~22					
	Domestic hot water	Ambient	Min.~Max.	°CDB	5~35					
		Water side	Max.	°C	70					
Sound power level	Nom.			dBA	42					
Sound pressure level	Nom.			dBA	28					

Outdoor Unit				ERGA	04EV	06EVH	08EVH7
Dimensions	Unit	HeightxWidthxDepth		mm	740x884x388		
Weight	Unit			kg	58.5		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Cooling		Min.~Max.	°CDB	10~43		
	Domestic hot water		Min.~Max.	°CDB	-25~35		
Refrigerant	Type				R-32		
	GWP				675.0		
	Charge			kg	1.50		
	Charge			TCO_2Eq	1.01		
	Control				Expansion valve		
Sound power level	Heating		Nom.	dBA	58	60	62
	Cooling		Nom.	dBA	61	62	
Sound pressure level	Heating		Nom.	dBA	44	47	49
	Cooling		Nom.	dBA	48	49	50
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1N~/50/230		
Current	Recommended fuses			A	25		

(1) Cooling Ta 35 °C - LWE 18 °C (DT = 5 °C); heating Ta DB/WB 7 °C/6 °C - LWC 35 °C (DT = 5 °C) (2) Cooling Ta 35 °C - LWE 7 °C (DT = 5 °C); heating Ta DB/WB 7 °C/6 °C - LWC 45 °C (DT = 5 °C).
This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R F

Floor standing integrated with **two different temperature zones monitoring**

- A combined stainless steel domestic hot water tank of 180 or 230 L and heat pump for easy installation
- Inclusion of all hydraulic components means no third party components are required
- PCB board and hydraulic components are located in the front for easy access
- Small installation footprint of 595 x 625 mm
- Integrated back-up heater choice of 6 or 9 kW
- Outdoor unit extracts heat from the outdoor air, even at -25 °C
- Compatible with the Onecta app
- Voice control available



up to A+++ D

A+ F

65 °C

R-32

011-1W0218 → 222

Efficiency data				EHVZ + ERGA	EHVZ-E6V 04S18E6V + 04EV	EHVZ-E9W 08S18E6V/E9W + 06EVH	ERGA-EV 08S23E6V/E9W + 06EVH	ERGA-EVH 08S18E6V/E9W + 08EVH7	ERGA-EVH7 08S23E6V/E9W + 08EVH7
Heating capacity	Nom.			kW	4.30 (1)/4.60 (2)	6.00 (1)/5.90 (2)		7.50 (1)/7.80 (2)	
Power input	Heating	Nom.		kW	0.850 (1)/1.26 (2)	1.24 (1)/1.69 (2)		1.63 (1)/2.23 (2)	
COP					5.10 (1)/3.65 (2)	4.85 (1)/3.50 (2)		4.60 (1)/3.50 (2)	
Space heating	Average climate water outlet 55 °C	General	SCOP		3.26			3.32	
			ηs (Seasonal space heating efficiency)	%	127			130	
			Seasonal space heating eff. class						
	Average climate water outlet 35 °C	General	SCOP		4.48	4.47		4.56	
			ηs (Seasonal space heating efficiency)	%	176			179	
			Seasonal space heating eff. class						
Domestic hot water heating	General	Declared load profile			L	XL		L	XL
	Average climate	ηwh (water heating efficiency)		%	125	133		125	133
		Water heating energy efficiency class							

Indoor Unit				EHVZ	04S18E6V	08S18E6V/E9W	08S23E6V/E9W	08S18E6V/E9W	08S23E6V/E9W
Casing	Colour				White + Black				
	Material				Resin / Sheet metal				
Dimensions	Unit	HeightxWidthxDepth		mm	1,650x595x625		1,850x595x625	1,650x595x625	1,850x595x625
Weight	Unit			kg	125		133	125	133
Tank	Water volume			l	180		230	180	230
	Maximum water temperature			°C	70				
	Maximum water pressure			bar	10				
	Corrosion protection				Pickling				
Operation range	Heating	Ambient	Min.~Max.	°C	5~30				
		Water side	Min.~Max.	°C	15 ~65				
	Domestic hot water	Ambient	Min.~Max.	°CDB	5~35				
		Water side	Max.	°C	70				
Sound power level	Nom.			dBA	42				
Sound pressure level	Nom.			dBA	28				

Outdoor Unit				ERGA	04EV	06EVH	08EVH7
Dimensions	Unit	HeightxWidthxDepth		mm	740x884x388		
Weight	Unit			kg	58.5		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Cooling		Min.~Max.	°CDB	10~43		
	Domestic hot water		Min.~Max.	°CDB	-25~35		
Refrigerant	Type				R-32		
	GWP				675.0		
	Charge			kg	1.50		
	Charge			TCO_2Eq	1.01		
	Control				Expansion valve		
Sound power level	Heating		Nom.	dBA	58	60	62
	Cooling		Nom.	dBA	61	62	
Sound pressure level	Heating		Nom.	dBA	44	47	49
	Cooling		Nom.	dBA	48	49	50
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1N~/50/230		
Current	Recommended fuses			A	25		

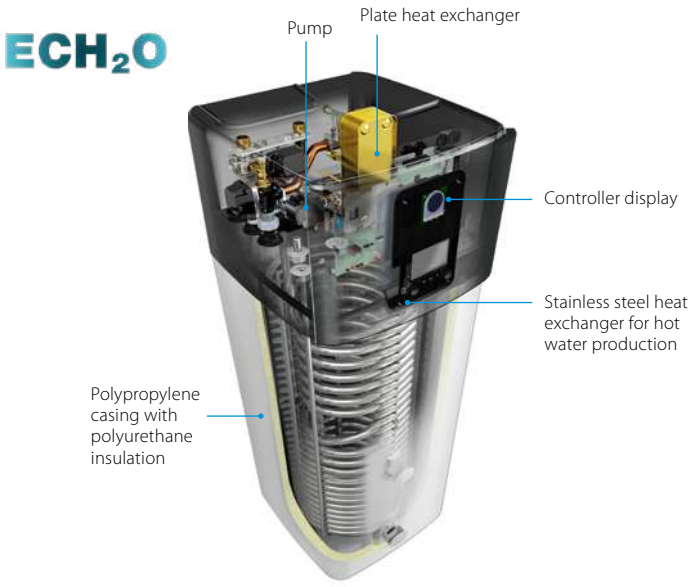
(1) Cooling Ta 35 °C - LWE 18 °C (DT = 5 °C); heating Ta DB/WB 7 °C/6 °C - LWC 35 °C (DT = 5 °C) (2) Cooling Ta 35 °C - LWE 7 °C (DT = 5 °C); heating Ta DB/WB 7 °C/6 °C - LWC 45 °C (DT = 5 °C).
This product contains fluorinated greenhouse gases.


DAIKIN
R32

Floor standing unit with integrated ECH$_2$O tank

R-32

BLUEVOLUTION





Floor standing air-to-water heat pump for heating and hot water with thermal solar suport: EHSH units
Floor standing air-to-water heat pump for bivalent heating and hot water with thermal solar suport: EHSHB units
Floor standing air-to-water heat pump for heating, cooling and hot water with thermal solar suport: EHSX units
Floor standing air-to-water heat pump for bivalent heating, cooling and hot water with thermal solar suport: EHSXB units

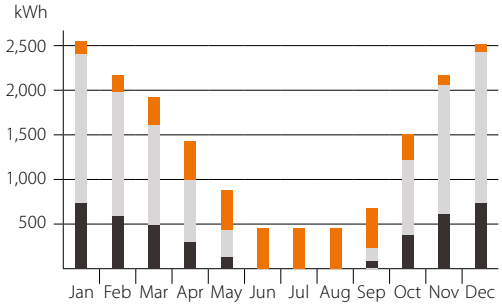
Pressureless (drain-back) solar system (EHSH-E, EHSX-E)

- The solar collectors are only filled with water when sufficient heating is provided by the sun
- The pumps in the control and pump unit switch on briefly and fill the collectors with storage tank water
- After filling, water circulation is maintained by the remaining pump

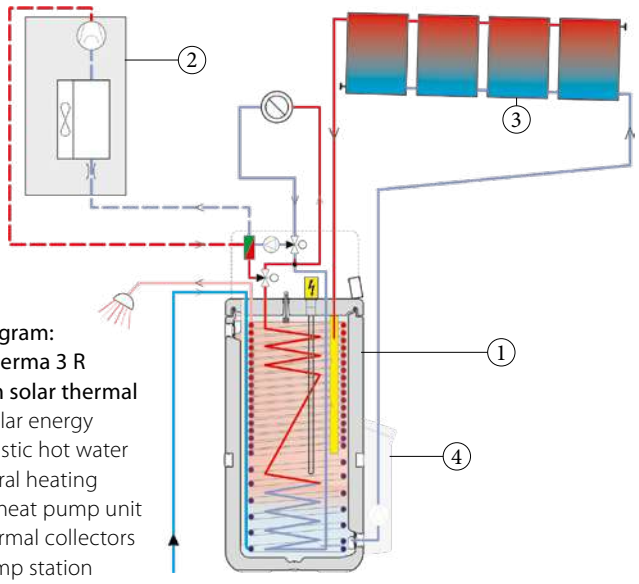
Pressurised solar system (EHSHB-E, EHSXB-E)

- System is filled with heat transfer fluid with the correct amount of antifreeze to avoid freezing in winter
- System is pressurised and sealed

Monthly energy consumption of an average detached house



Utilisation of solar energy for domestic hot water and central heating
Heat pump (environmental heat)
Auxiliary energy (electricity)



System diagram: Daikin Altherma 3 R ECH$_2$O with solar thermal

1 Use of solar energy for domestic hot water and central heating
2 External heat pump unit
3 Solar thermal collectors
4 Solar pump station

DAIKIN altherma

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Daikin Altherma 3 R ECH$_2$O

Floor standing air to water heat pump for **heating and hot water** with thermal solar support

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- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Solar support of domestic hot water with pressureless (drain-back) solar system
- Heat loss is reduced to a minimum thanks to the high quality insulation
- App control possible for managing heating, hot water and cooling operation
- Outdoor unit extracts heat from the outdoor air, even at -25 °C
- Possible to connect to photovoltaïc solar panels to provide energy for your heat pump
- Compatible with the Onecta app
- Voice control available





011-1W0262
011-1W0264
→ 267

EHSH-E | ERGA-EV | ERGA-EVH | ERGA-EVH7

Efficiency data				EHSH + ERGA	04P30E + 04EV	08P30E + 06EVH	08P50E + 06EVH	08P30E + 08EVH7	08P50E + 08EVH7
Heating capacity	Nom.			kW	4.30 (1)/4.60 (2)	6.00 (1)/5.90 (2)		7.50 (1)/7.80 (2)	
Power input	Heating	Nom.		kW	0.84 (1)/1.26 (2)	1.24 (1)/1.69 (2)		1.63 (1)/2.23 (2)	
COP					5.10 (1)/3.65 (2)	4.85 (1)/3.50 (2)		4.60 (1)/3.50 (2)	
Space heating	Average climate water outlet 55 °C	General	SCOP		3.26			3.32	
			ηs (Seasonal space heating efficiency)	%	127			130	
			Seasonal space heating eff. class		A++				
	Average climate water outlet 35 °C	General	SCOP		4.48	4.47		4.56	
			ηs (Seasonal space heating efficiency)	%	176			179	
			Seasonal space heating eff. class		A+++				
Domestic hot water heating	General	Declared load profile			L		XL	L	XL
	Average climate	ηwh (water heating efficiency)		%	118		125	118	125
		Water heating energy efficiency class			A+				

Indoor Unit				EHSH	04P30E	08P30E	08P50E	08P30E	08P50E
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)				
	Material				Impact resistant polypropylene				
Dimensions	Unit	HeightxWidthxDepth		mm	1,892x594x644		1,905x792x812	1,892x594x644	1,905x792x812
Weight	Unit			kg	77		107	77	107
Tank	Water volume			l	294		477	294	477
	Maximum water temperature			°C	85				
Operation range	Heating	Ambient	Min.~Max.	°C	-25~25				
		Water side	Min.~Max.	°C	18~65				
	Domestic hot water	Ambient	Min.~Max.	°CDB	-25~35				
		Water side	Min.~Max.	°C	25~55				
Sound power level	Nom.			dBA	39				

Outdoor Unit				ERGA	04EV	06EVH	08EVH7
Dimensions	Unit	HeightxWidthxDepth		mm	740x884x388		
Weight	Unit			kg	58.5		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Cooling		Min.~Max.	°CDB	10.0~43.0		
	Domestic hot water		Min.~Max.	°CDB	-25 ~35		
Refrigerant	Type				R-32		
	GWP				675.0		
	Charge			kg	1.50		
	Charge			TCO$_2$Eq	1.01		
	Control				Expansion valve		
Sound power level	Heating		Nom.	dBA	58	60	62
	Cooling		Nom.	dBA	61	62	
Sound pressure level	Heating		Nom.	dBA	44	47	49
	Cooling		Nom.	dBA	48	49	50
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1N~/50/230		
Current	Recommended fuses			A	25		

(1) Cooling Ta 35 °C - LWE 18 °C (DT = 5 °C); heating Ta DB/WB 7 °C/6 °C - LWC 35 °C (DT = 5 °C) (2) Cooling Ta 35 °C - LWE 7 °C (DT = 5 °C); heating Ta DB/WB 7 °C/6 °C - LWC 45 °C (DT = 5 °C).
This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R ECH$_2$O

Floor standing air to water heat pump for **bivalent heating and hot water** with thermal solar support

- Integrated solar unit, offering top comfort in heating and hot water
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Bivalent system: combinable with a secondary heat source
- Heat loss is reduced to a minimum thanks to the high quality insulation
- App control possible for managing heating and hot water operation
- Compatible with the Onecta app
- Voice control available





011-1W0262
011-1W0264 → 267

EHSHB-E | ERGA-EV | ERGA-EVH | ERGA-EVH7

Efficiency data				EHSHB + ERGA	04P30E + 04EV	08P30E + 06EVH	08P50E + 06EVH	08P30E + 08EVH7	08P50E + 08EVH7
Heating capacity	Nom.			kW	4.30 (1)/4.60 (2)	6.00 (1)/5.90 (2)		7.50 (1)/7.80 (2)	
Power input	Heating	Nom.		kW	0.84 (1)/1.26 (2)	1.24 (1)/1.69 (2)		1.63 (1)/2.23 (2)	
COP					5.10 (1)/3.65 (2)	4.85 (1)/3.50 (2)		4.60 (1)/3.50 (2)	
Space heating	Average climate water outlet 55 °C	General	SCOP		3.26			3.32	
			ηs (Seasonal space heating efficiency)	%	127			130	
			Seasonal space heating eff. class		A++				
	Average climate water outlet 35 °C	General	SCOP		4.48	4.47		4.56	
			ηs (Seasonal space heating efficiency)	%	176			179	
			Seasonal space heating eff. class		A+++				
Domestic hot water heating	General	Declared load profile			L		XL	L	XL
	Average climate	ηwh (water heating efficiency)		%	118		125	118	125
		Water heating energy efficiency class			A+				

Indoor Unit				EHSHB	04P30E	08P30E	08P50E	08P30E	08P50E
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)				
	Material				Impact resistant polypropylene				
Dimensions	Unit	HeightxWidthxDepth		mm	1,892x594x644		1,905x792x812	1,892x594x644	1,905x792x812
Weight	Unit			kg	79		110	79	110
Tank	Water volume			l	294		477	294	477
	Maximum water temperature			°C	85				
Operation range	Heating	Ambient	Min.~Max.	°C	-25~25				
		Water side	Min.~Max.	°C	18~65				
	Domestic hot water	Ambient	Min.~Max.	°CDB	-25~35				
		Water side	Min.~Max.	°C	25~55				
Sound power level	Nom.			dBA	39				

Outdoor Unit				ERGA	04EV	06EVH	08EVH7
Dimensions	Unit	HeightxWidthxDepth		mm	740x884x388		
Weight	Unit			kg	58.5		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Cooling		Min.~Max.	°CDB	10.0~43.0		
	Domestic hot water		Min.~Max.	°CDB	-25 ~35		
Refrigerant	Type				R-32		
	GWP				675.0		
	Charge			kg	1.50		
	Charge			TCO_2Eq	1.01		
	Control				Expansion valve		
Sound power level	Heating		Nom.	dBA	58	60	62
	Cooling		Nom.	dBA	61	62	
Sound pressure level	Heating		Nom.	dBA	44	47	49
	Cooling		Nom.	dBA	48	49	50
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1N~/50/230		
Current	Recommended fuses			A	25		

(1) Cooling Ta 35 °C - LWE 18 °C (DT = 5 °C); heating Ta DB/WB 7 °C/6 °C - LWC 35 °C (DT = 5 °C) (2) Cooling Ta 35 °C - LWE 7 °C (DT = 5 °C); heating Ta DB/WB 7 °C/6 °C - LWC 45 °C (DT = 5 °C).
This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R ECH$_2$O

Floor standing air to water heat pump for **heating, cooling and hot water** with thermal solar support

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- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Solar support of domestic hot water with pressureless (drain-back) solar system
- Heat loss is reduced to a minimum thanks to the high quality insulation
- App control possible for managing heating, hot water and cooling operation
- Outdoor unit extracts heat from the outdoor air, even at -25 °C
- Possible to connect to photovoltaïc solar panels to provide energy for your heat pump
- Compatible with the Onecta app
- Voice control available





011-1W0262 → 267

EHSX-E ERGA-EV ERGA-EVH ERGA-EVH7

Efficiency data					EHSX + ERGA	04P30E + 04EV	04P50E + 04EV	08P30E + 06EVH	08P50E + 06EVH	08P30E + 08EVH7	08P50E + 08EVH7
Heating capacity	Nom.				kW	4.30 (1)/4.60 (2)		6.00 (1)/5.90 (2)		7.50 (1)/7.80 (2)	
Power input	Heating	Nom.			kW	0.84 (1)/1.26 (2)		1.24 (1)/1.69 (2)		1.63 (1)/2.23 (2)	
Cooling capacity	Nom.				kW	4.86 (1)/4.52 (2)		5.96 (1)/5.09 (2)		6.25 (1)/5.44 (2)	
Power input	Cooling	Nom.			kW	0.81 (1)/1.36 (2)		1.06 (1)/1.55 (2)		1.16 (1)/1.73 (2)	
COP						5.10 (1)/3.65 (2)		4.85 (1)/3.50 (2)		4.60 (1)/3.50 (2)	
EER						5.98 (1)/3.32 (2)		5.61 (1)/3.28 (2)		5.40 (1)/3.14 (2)	
Space heating	Average climate water outlet 55 °C	General	SCOP			3.29		3.28		3.35	
			ηs (Seasonal space heating efficiency)	%		129		128		131	
			Seasonal space heating eff. class								
	Average climate water outlet 35 °C	General	SCOP			4.54		4.52		4.61	
			ηs (Seasonal space heating efficiency)	%		179		178		181	
			Seasonal space heating eff. class								
Domestic hot water heating	General	Declared load profile				L	XL	L	XL	L	XL
	Average climate	ηwh (water heating efficiency)		%		118	125	118	125	118	125
		Water heating energy efficiency class									

Indoor Unit				EHSX	04P30E	04P50E	08P30E	08P50E	08P30E	08P50E
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth		mm	1,892x594x644	1,905x792x812	1,892x594x644	1,905x792x812	1,892x594x644	1,905x792x812
Weight	Unit			kg	77	107	77	107	77	107
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-25~25					
		Water side	Min.~Max.	°C	18~65					
	Cooling	Ambient	Min.~Max.	°CDB	10~43					
		Water side	Min.~Max.	°C	5~22					
	Domestic hot water	Ambient	Min.~Max.	°CDB	-25~35					
		Water side	Min.~Max.	°C	25~55					
Sound power level	Nom.			dBA	39					

Outdoor Unit				ERGA	04EV	06EVH	08EVH7
Dimensions	Unit	HeightxWidthxDepth		mm	740x884x388		
Weight	Unit			kg	58.5		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Cooling	Min.~Max.		°CDB	10.0~43.0		
	Domestic hot water	Min.~Max.		°CDB	-25 ~35		
Refrigerant	Type				R-32		
	GWP				675.0		
	Charge			kg	1.50		
	Charge			TCO$_2$Eq	1.01		
	Control				Expansion valve		
Sound power level	Heating	Nom.		dBA	58	60	62
	Cooling	Nom.		dBA	61	62	
Sound pressure level	Heating	Nom.		dBA	44	47	49
	Cooling	Nom.		dBA	48	49	50
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1N~/50/230		
Current	Recommended fuses			A	25		

(1) Cooling Ta 35 °C - LWE 18 °C (DT = 5 °C); heating Ta DB/WB 7 °C/6 °C - LWC 35 °C (DT = 5 °C) (2) Cooling Ta 35 °C - LWE 7 °C (DT = 5 °C); heating Ta DB/WB 7 °C/6 °C - LWC 45 °C (DT = 5 °C).
This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R ECH_2O

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- Heat loss is reduced to a minimum thanks to the high quality insulation
- App control possible for managing heating and hot water operation
- Compatible with the Onecta app
- Voice control available





011-1W0262 → 267

EHSXB-E ERGA-EV ERGA-EVH ERGA-EVH7

Efficiency data				EHSXB + ERGA	04P30E + 04EV	04P50E + 04EV	08P30E + 06EVH	08P50E + 06EVH	08P30E + 08EVH7	08P50E + 08EVH7
Heating capacity	Nom.			kW	4.30 (1)/4.60 (2)		6.00 (1)/5.90 (2)		7.50 (1)/7.80 (2)	
Power input	Heating	Nom.		kW	0.84 (1)/1.26 (2)		1.24 (1)/1.69 (2)		1.63 (1)/2.23 (2)	
Cooling capacity	Nom.			kW	4.86 (1)/4.52 (2)		5.96 (1)/5.09 (2)		6.25 (1)/5.44 (2)	
Power input	Cooling	Nom.		kW	0.81 (1)/1.36 (2)		1.06 (1)/1.55 (2)		1.16 (1)/1.73 (2)	
COP					5.10 (1)/3.65 (2)		4.85 (1)/3.50 (2)		4.60 (1)/3.50 (2)	
EER					5.98 (1)/3.32 (2)		5.61 (1)/3.28 (2)		5.40 (1)/3.14 (2)	
Space heating	Average climate water outlet 55 °C	General	SCOP		3.29		3.28		3.35	
			ηs (Seasonal space heating efficiency)	%	129		128		131	
			Seasonal space heating eff. class				A+			
	Average climate water outlet 35 °C	General	SCOP		4.54		4.52		4.61	
			ηs (Seasonal space heating efficiency)	%	179		178		181	
			Seasonal space heating eff. class				A+			
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	ηwh (water heating efficiency)		%	118	125	118	125	118	125
		Water heating energy efficiency class					A+			

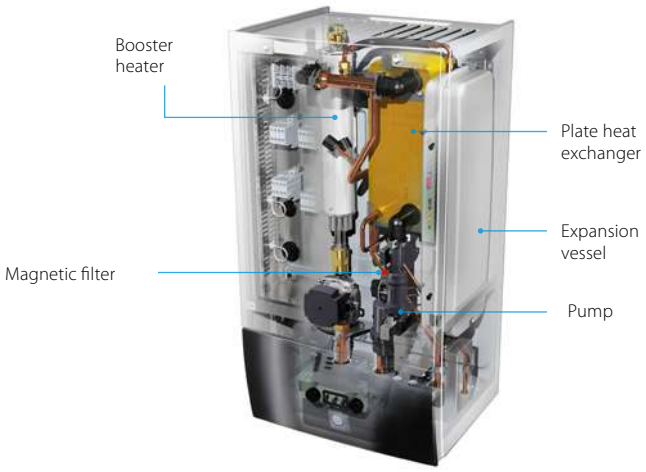
Indoor Unit				EHSXB	04P30E	04P50E	08P30E	08P50E	08P30E	08P50E
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth		mm	1,892x594x644	1,905x792x812	1,892x594x644	1,905x792x812	1,892x594x644	1,905x792x812
Weight	Unit			kg	79	110	79	110	79	110
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-25~25					
		Water side	Min.~Max.	°C	18~65					
	Cooling	Ambient	Min.~Max.	°CDB	10~43					
		Water side	Min.~Max.	°C	5~22					
	Domestic hot water	Ambient	Min.~Max.	°CDB	-25~35					
		Water side	Min.~Max.	°C	25~55					
Sound power level	Nom.			dBA	39					

Outdoor Unit				ERGA	04EV	06EVH	08EVH7
Dimensions	Unit	HeightxWidthxDepth		mm	740x884x388		
Weight	Unit			kg	58.5		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Cooling		Min.~Max.	°CDB	10.0~43.0		
	Domestic hot water		Min.~Max.	°CDB	-25 ~35		
Refrigerant	Type				R-32		
	GWP				675.0		
	Charge			kg	1.50		
	Charge			TCO_2Eq	1.01		
	Control				Expansion valve		
Sound power level	Heating		Nom.	dBA	58	60	62
	Cooling		Nom.	dBA	61	62	
Sound pressure level	Heating		Nom.	dBA	44	47	49
	Cooling		Nom.	dBA	48	49	50
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1N~/50/230		
Current	Recommended fuses			A	25		

(1) Cooling Ta 35 °C - LWE 18 °C (DT = 5 °C); heating Ta DB/WB 7 °C/6 °C - LWC 35 °C (DT = 5 °C) (2) Cooling Ta 35 °C - LWE 7 °C (DT = 5 °C); heating Ta DB/WB 7 °C/6 °C - LWC 45 °C (DT = 5 °C).
This product contains fluorinated greenhouse gases.

Wall mounted unit

This model is the most compact unit for heating and cooling with high flexibility for a quick and easy installation, with an optional connection to domestic hot water.





All hydraulic parts included in the compact wall mounted unit.

Wall mounted heating only air-to-water heat pump: EHBH units
Wall mounted reversible air-to-water heat pump: EHBX units



Example of installation with a stainless steel domestic hot water tank (EKHWS(P)-D).

DAIKIN
R32

Daikin Altherma 3 R W

Wall mounted **heating only** air-to-water heat pump ideal for low energy houses

- Inclusion of all hydraulic components means no third party components are required
- PCB board and hydraulic components are located in the front for easy access
- Compact dimensions allows for small installation space, as almost no side clearances are required
- The unit's sleek design blends in with other household appliances
- Combine with a stainless steel tank or ECH$_2$O thermal store
- Outdoor unit extracts heat from the outdoor air, even at -25 °C
- Compatible with the Onecta app
- Voice control available


BRC1HHDW


EHBH-E6V


ERGA-EV(H)(7)

-25°
Guaranteed operation down to -25°C

Onecta app

Voice control

up to A+++ (A+++ to D)

65 °C

R-32

011-1W0218-219
011-1W0221
011-1W0246-247

Efficiency data					EHBH + ERGA	EHBH-E6V + 04EV	EHBH-E9W + 08E6V + 06EVH	ERGA-EV + 08E9W + 06EVH	ERGA-EVH + 08E6V + 08EVH7	ERGA-EVH7 + 08E9W + 08EVH7
Heating capacity	Nom.				kW	4.30 (1)/4.60 (2)	6.00 (1)/5.90 (2)		7.50 (1)/7.80 (2)	
Power input	Heating	Nom.			kW	0.85 (1)/1.26 (2)	1.24 (1)/1.69 (2)		1.63 (1)/2.23 (2)	
COP						5.10 (1)/3.65 (2)	4.85 (1)/3.50 (2)		4.60 (1)/3.50 (2)	
Space heating	Average climate water outlet 55 °C	General	SCOP			3.26			3.32	
			ηs (Seasonal space heating efficiency)		%	127			130	
			Seasonal space heating eff. class			A++				
	Average climate water outlet 35 °C	General	SCOP			4.48	4.47		4.56	
			ηs (Seasonal space heating efficiency)		%	176			179	
			Seasonal space heating eff. class			A+++				

Indoor Unit				EHBH	04E6V	08E6V	08E9W	08E6V	08E9W
Casing	Colour				White + Black				
	Material				Resin, sheet metal				
Dimensions	Unit	HeightxWidthxDepth		mm	840x440x390				
Weight	Unit			kg	42.0		42.4	42.0	42.4
Operation range	Heating	Water side	Min.~Max.	°C	15 ~65				
	Domestic hot water	Water side	Min.~Max.	°C	25~75				
Sound power level	Nom.			dBA	42				
Sound pressure level	Nom.			dBA	28				

Outdoor Unit				ERGA	04EV	06EVH	08EVH7
Dimensions	Unit	HeightxWidthxDepth		mm	740x884x388		
Weight	Unit			kg	58.5		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Cooling		Min.~Max.	°CDB	10~43		
	Domestic hot water		Min.~Max.	°CDB	-25~35		
Refrigerant	Type				R-32		
	GWP				675.0		
	Charge			kg	1.50		
	Charge			TCO$_2$Eq	1.01		
	Control				Expansion valve		
Sound power level	Heating		Nom.	dBA	58	60	62
	Cooling		Nom.	dBA	61	62	
Sound pressure level	Heating		Nom.	dBA	44	47	49
	Cooling		Nom.	dBA	48	49	50
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1N~/50/230		
Current	Recommended fuses			A	25		

(1) Cooling Ta 35 °C - LWE 18 °C (DT = 5 °C); heating Ta DB/WB 7 °C/6 °C - LWC 35 °C (DT = 5 °C) (2) Cooling Ta 35 °C - LWE 7 °C (DT = 5 °C); heating Ta DB/WB 7 °C/6 °C - LWC 45 °C (DT = 5 °C).
This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R W

Wall mounted **reversible** air-to-water heat pump ideal for low energy houses

- Inclusion of all hydraulic components means no third party components are required
- PCB board and hydraulic components are located in the front for easy access
- Compact dimensions allows for small installation space, as almost no side clearances are required
- The unit's sleek design blends in with other household appliances
- Combine with a stainless steel tank or ECH$_2$O thermal store
- Outdoor unit extracts heat from the outdoor air, even at -25 °C
- Compatible with the Onecta app
- Voice control available



up to A+++ (A+++ to D)

65 °C

R-32

011-1W0218-219
011-1W0221
011-1W0246-247

EHBX-E6V | EHBX-E9W | ERGA-EV | ERGA-EVH | ERGA-EVH7

Efficiency data				EHBX + ERGA	04E6V + 04EV	08E6V + 06EVH	08E9W + 06EVH	08E6V + 08EVH7	08E9W + 08EVH7
Heating capacity	Nom.			kW	4.30 (1)/4.60 (2)	6.00 (1)/5.90 (2)		7.50 (1)/7.80 (2)	
Power input	Heating	Nom.		kW	0.850 (1)/1.26 (2)	1.24 (1)/1.69 (2)		1.63 (1)/2.23 (2)	
Cooling capacity	Nom.			kW	4.86 (1)/4.52 (2)	5.96 (1)/5.09 (2)		6.25 (1)/5.44 (2)	
Power input	Cooling	Nom.		kW	0.810 (1)/1.36 (2)	1.06 (1)/1.55 (2)		1.16 (1)/1.73 (2)	
COP					5.10 (1)/3.65 (2)	4.85 (1)/3.50 (2)		4.60 (1)/3.50 (2)	
EER					5.98 (1)/3.32 (2)	5.61 (1)/3.28 (2)		5.40 (1)/3.14 (2)	
Space heating	Average climate water outlet 55 °C	General	SCOP		3.29	3.28		3.35	
			ηs (Seasonal space heating efficiency)	%	129	128		131	
			Seasonal space heating eff. class						
	Average climate water outlet 35 °C	General	SCOP		4.54	4.52		4.61	
			ηs (Seasonal space heating efficiency)	%	179	178		181	
			Seasonal space heating eff. class						

Indoor Unit			EHBX	04E6V	08E6V	08E9W	08E6V	08E9W
Casing	Colour			White + Black				
	Material			Resin, sheet metal				
Dimensions	Unit	HeightxWidthxDepth	mm	840x440x390				
Weight	Unit		kg	42.0		42.4	42.0	42.4
Operation range	Heating	Water side Min.~Max.	°C	15 ~65				
	Domestic hot water	Water side Min.~Max.	°C	25~75				
Sound power level	Nom.		dBA	42				
Sound pressure level	Nom.		dBA	28				

Outdoor Unit				ERGA	04EV	06EVH	08EVH7
Dimensions	Unit	HeightxWidthxDepth	mm	740x884x388			
Weight	Unit		kg	58.5			
Compressor	Quantity			1			
	Type			Hermetically sealed swing compressor			
Operation range	Cooling	Min.~Max.	°CDB	10~43			
	Domestic hot water	Min.~Max.	°CDB	-25~35			
Refrigerant	Type			R-32			
	GWP			675.0			
	Charge		kg	1.50			
	Charge		TCO$_2$Eq	1.01			
	Control			Expansion valve			
Sound power level	Heating	Nom.	dBA		58	60	62
	Cooling	Nom.	dBA		61	62	
Sound pressure level	Heating	Nom.	dBA		44	47	49
	Cooling	Nom.	dBA		48	49	50
Power supply	Name/Phase/Frequency/Voltage		Hz/V	V3/1N~/50/230			
Current	Recommended fuses		A	25			

(1) Cooling Ta 35 °C - LWE 18 °C (DT = 5 °C); heating Ta DB/WB 7 °C/6 °C - LWC 35 °C (DT = 5 °C) (2) Cooling Ta 35 °C - LWE 7 °C (DT = 5 °C); heating Ta DB/WB 7 °C/6 °C - LWC 45 °C (DT = 5 °C).
This product contains fluorinated greenhouse gases.

Combination table and options

			Floor standing				
			Heating only		Reversible		Biz
			EHVH04S18E6V	EHVH08S18E6V	EHVX04S18E3V	EHVX08S18E6V	EHVZ04S18E6V
			EHVH04S23E6V	EHVH08S23E6V	EHVX04S23E3V	EHVX08S23E6V	
				EHVH08S18E9W	EHVX04S18E6V	EHVX08S18E9W	
				EHVH08S23E9W	EHVX04S23E6V	EHVX08S23E9W	
Type	**Description**	**Material name**					
Outdoor unit	4kW	ERGA04EAV3	•		•		•
	6kW	ERGA06EAV3H		•		•	
	8kW	ERGA08EAV3H7		•		•	
Controls	Madoka wired room thermostat	BRC1HHDK/S/W(7)	•	•	•	•	•
	Wireless room thermostat	EKRTRB	•	•	•	•	•
	Wired digital thermostat	EKRTWA	•	•	•	•	•
	Wireless room by room control	Daikin Home Controls (page 288)	•	•	•	•	•
	LAN adapter	BRP069A62 (with MMI from v6.8.0)	•	•	•	•	•
	WLAN module	BRP069A71	• (1)	• (1)	• (1)	• (1)	• (1)
	WLAN cartridge	BRP069A78	• (1)	• (1)	• (1)	• (1)	• (1)
	Universal centralised controller for cascade	EKCC9-W DCOM-LT/IO,-LT/MB	•	•	•	•	•
Sensors	Remote indoor sensor	KRCS01-1	• (2)	• (2)	• (2)	• (2)	• (2)
	Remote outdoor sensor	EKRSCA1	• (2)	• (2)	• (2)	• (2)	• (2)
	External sensor for EKRTRB room thermostat	EKRTETS	• (3)	• (3)	• (3)	• (3)	• (3)
Bizone kits	Watts kit	BZKA7V3	•	•	•	•	
	Generic bizone kit	EKMIKPOAF					
	Generic bizone kit	EKMIKPHAF					
Domestic hot water	DHW tank	EKHWS(P)(U)-D(3)V3					
	Thermal stores	EKHWP-(P)B					
	Third party tank kit	EKHY3PART					
	Third party tank kit	EKHY3PART2					
Heat pump convector	Floor standing	FWXV15/20/25*	• (5)	• (5)	• (5)	• (5)	• (5)
	Wall mounted	FWXT15/20/25*	• (5)	• (5)	• (5)	• (5)	• (5)
	Concealed	FWXM15/20/25*	• (5)	• (5)	• (5)	• (5)	• (5)
Other options	Digital I/O PCB	EKRP1HBAA	• (6)	• (6)	• (6)	• (6)	• (6)
	Demand PCB	EKRP1AHTA	•	•	•	•	•
	PC USB cable	EKPCCAB4	•	•	•	•	•
	Relay smart grid	EKRESLG	•	•	•	•	•
	Corner pipe bend kit	EKHVTC	•	•	•	•	
Dedicated ECH_2O options	Inline back-up heater (3kW, for *3V (1N ~, 230 V, 3 kW)	EKECBUAF3V					
	Inline back-up heater (6kW, for *6V (1N ~, 230 V, 6 kW)	EKECBUAF6V					
	Inline back-up heater (9kW, for *9WN (3N ~, 400 V, 9 kW)	EKECBUAF9W					
	Inline back-up heater connection kit	EKECBUCO3AF					
	Dirt separator	156021					
	Bivalent connector kit	EKECBIVCO2AF					
	Drain-back connector kit	EKECDBCO2AF					
	Circulation stop valves (2 pcs)	165070					
	Fill and drain connection KFE BA	165215					

(1) W-LAN cartridge is supplied in the accessory bag of the unit => To be plugged in the SD-Slot on MMI-2 (in case of bad reception of signal, the WLAN cartridge can be removed and replaced by the WLAN or LAN module).
(2) Only 1 sensor can be connected: indoor OR outdoor sensor.
(3) Can only be used in combination with the wireless room thermostat EKRTRB(1).
(4) EKHY3PART2 can be used if you have a tank in which you can't insert a thermistor.
(5) Multi combination (quantity, depends on capacity class). EKVKHPC needs to be installed mandatory on heat pump convector (exception: LT- H/O).
(6) Additional relays to allow bivalent control in combination with external room thermostat are field supply.
(7) Only 1 Backup heater can be connected on one unit: 3 or 6* or 9 kW (*No 6T1-model applicable). EKECBUCO*AF is needed to connect the backup heater to the main unit.

	ECH$_2$O				Wall mounted			
one	Standard		Bivalent		Heating only		Reversible	
EHVZ08S18E6V	EHSH04P30E	EHSH08P30E	EHSHB04P30E	EHSHB08P30E	EHBH04E6V	EHBH08E6V	EHBX04E6V	EHBX08E6V
EHVZ08S23E6V		EHSH08P50E		EHSHB08P50E		EHBH08E9W		EHBX08E9W
EHVZ08S18E9W		EHSX04P30E		EHSXB04P30E				
EHVZ08S23E9W		EHSX04P50E		EHSXB04P50E				
		EHSX08P30E		EHSXB08P30E				
		EHSX08P50E		EHSXB08P50E				
	•		•		•		•	
•		•		•		•		•
•		•		•		•		•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
• (1)	• (1)	• (1)	• (1)	• (1)	• (1)	• (1)	• (1)	• (1)
• (1)	• (1)	• (1)	• (1)	• (1)	• (1)	• (1)	• (1)	• (1)
•	•	•	•	•	•	•	•	•
• (2)	• (2)	• (2)	• (2)	• (2)	• (2)	• (2)	• (2)	• (2)
• (2)	• (2)	• (2)	• (2)	• (2)	• (2)	• (2)	• (2)	• (2)
• (3)	• (3)	• (3)	• (3)	• (3)	• (3)	• (3)	• (3)	• (3)
					•	•	•	•
	•	•	•	•				
	•	•	•	•				
					•	•	•	•
					•	•	•	•
					•	•	•	•
					• (4)	• (4)	• (4)	• (4)
• (5)	• (5)	• (5)	• (5)	• (5)	• (5)	• (5)	• (5)	• (5)
• (5)	• (5)	• (5)	• (5)	• (5)	• (5)	• (5)	• (5)	• (5)
• (5)	• (5)	• (5)	• (5)	• (5)	• (5)	• (5)	• (5)	• (5)
• (6)					• (6)	• (6)	• (6)	• (6)
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
	• (7)	• (7)	• (7)	• (7)				
	• (7)	• (7)	• (7)	• (7)				
	• (7)	• (7)	• (7)	• (7)				
	• (7)	• (7)	• (7)	• (7)				
	•	•	•	•				
			•	•				
	•	•						
	•	•	•	•				
	•	•	•	•				

Daikin Altherma 3 M (4-6-8 kW)

The monobloc standard



Functional design

Daikin Altherma 3 M is the Daikin's first third generation monobloc, benefiting from a new design and using the R-32 refrigerant, also now available in 4, 6 and 8 kW.

A redesigned casing
The white front grille made of horizontal lines is hiding the fan from view, reducing the perception of the sound produced by the unit.

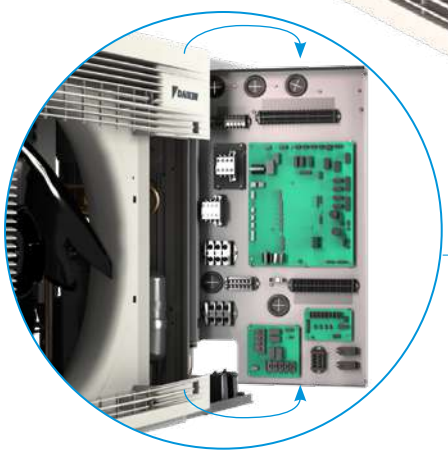
The light grey and seamless casing is slightly reflecting the environment where the unit is installed, helping it to blend in in any decor.

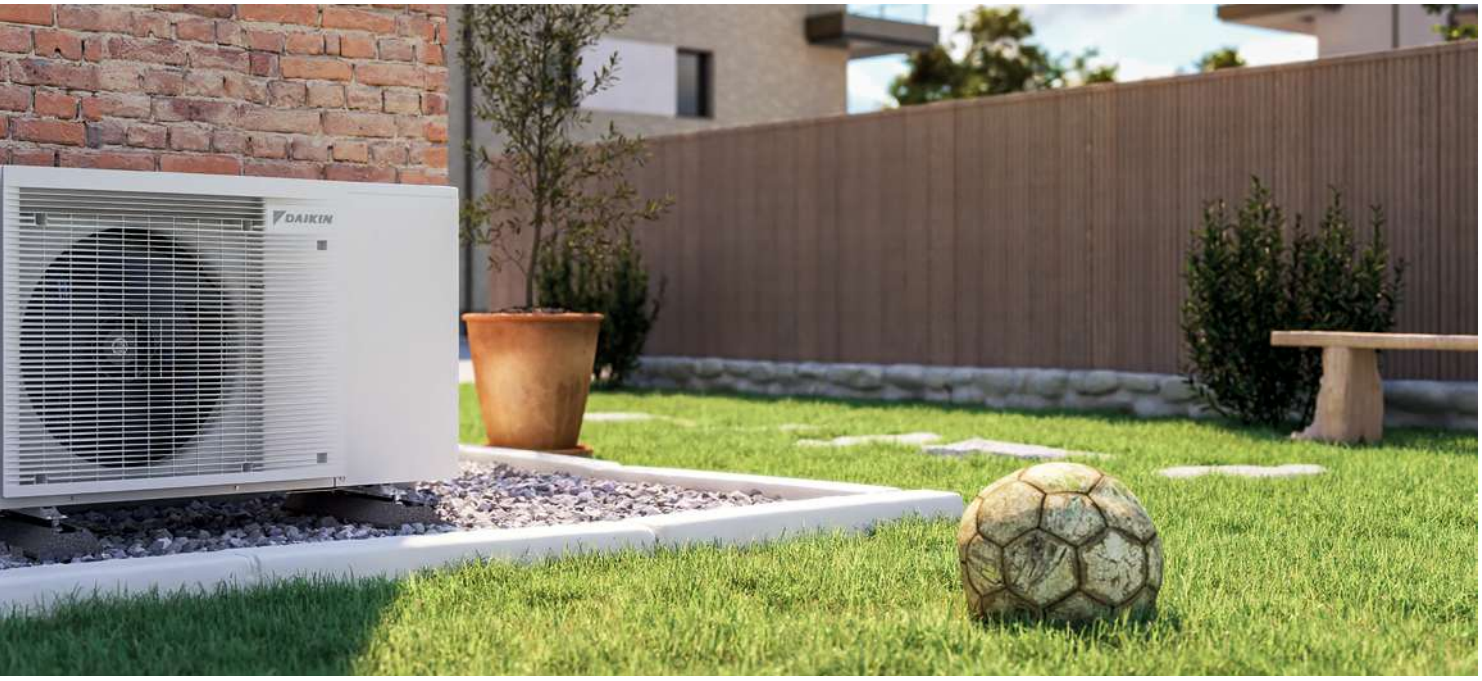
A renewed fan shape
The shape of the fan has been reviewed to reduce the contact surface with air and improve the air circulation.



Help installers and commissioning

- The rotary switchbox is a brand-new feature in this monobloc heat pump.
- It helps installers accessing the hydraulic and refrigerant components of the unit in an easy way.
- The service and commissioning can be then performed with ease.

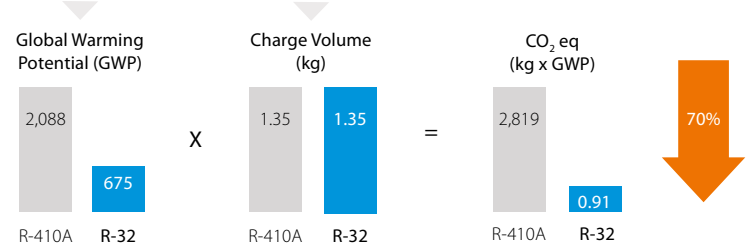






Reduced environmental impact: 70% less CO_2 equivalent

- GWP: R-410A: 2,088 > R-32: 675



R-32 monobloc

R-32 BLUEVOLUTION

Daikin is a pioneer in launching heat pumps equipped with R-32. With a lower Global Warming Potential (GWP), the R-32 is equivalent in power to standard refrigerants, but achieves higher energy efficiency and lower CO_2 emissions.
Easy to recover and reuse, R-32 is the perfect solution for attaining the new European CO_2 emission targets.

A simple solution to space limitation

Thanks to the monobloc set-up, no indoor unit is required which helps when space is limited inside. The monobloc can even fit under a window!

The monobloc also gets its power from inside: all hydraulic components are integrated in one unit, including the sealed refrigerant circuit: no need for refrigerant handling or F-gas qualifications

Fully connected control

The Daikin Altherma 3 M is equipped with the most intuitive control solutions.



Heating and cooling emitters

Daikin Altherma 3 M works perfectly with various emitters, including fan coils, underfloor heating and heat pump convectors.









Cloud ready with WLAN



reddot award 2018
winner

DESIGN AWARD 2018

Onecta app, with voice control

- Control the heating system from home or remote via smartphone
- Control the heating system with the voice
- Include integrations with Google Assistant and Amazon Alexa
- Featuring other functions: scheduling and holiday mode, control multiple units and boosting mode, monitoring energy consumption…

Madoka: a user-friendly wired room thermostat

- Sleek and elegant design
- Intuitive touch button control
- Three colours to match any interior (white, black and silver-grey)
- Compact unit measuring only 85 x 85 mm

Domestic hot water production

The monobloc combines with stainless steel tanks (EKHWS(P)-D), thermal stores and panels (EKHWP) to provide domestic hot water quickly.





☑ Man-Machine Interface (MMI)

Inspired by the award-winning design of the Daikin Altherma 3 indoor units, Daikin also upgraded this controller to deliver an even more user-friendly interface.

Quick configuration
After logging in, you'll be able to configure the unit with the new controller in less than 10 steps. You can even check if the unit is ready to use by running test cycles.

Easy operation
The new interface features a few buttons and 2 navigational knobs to help you quickly set the room temperature and control units.

User-friendly design
The interface features an intuitive design. The high contrasted colour screen delivers stunning and practical visuals for both installers and service engineers.

WLAN cartridge connection

Small dimensions for a discreet unit:
136 x 160 x 37 mm (HxWxD)

Consistent compactness

Daikin Altherma 3 M is the most compact heat pump solution, as it only consists of one outdoor unit only. This is therefore ideal for limited space.

Strengthened performances

The Daikin Altherma 3 M shows improved performances as well as a wide product range

- Space heating up to A+++
- Domestic hot water up to A
- Operating down to -25°C
- Delivers LWT 55°C at -15°C without back-up heater
- Suitable for small new buildings, or system replacement

Extended product range

- Heating only models (EDLA*)
- Reversible models providing cooling (EBLA*)
- One-phase models only
- Back-up heater less models (EB/DLA-EV3)
- Plug & play integrated back-up heater models (EB/DLA-E3V3)
- Available in 4, 6 and 8 kW
- Completing the existing range of 9, 11, 14 and 16 kW

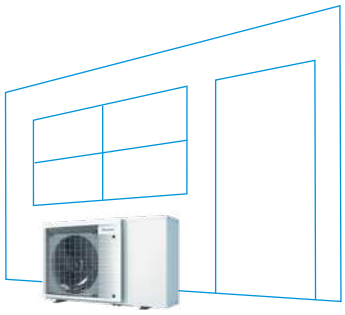
Flexibility in domestic hot water production

- Combination with stainless steel domestic hot water tank (EKHWS(P)(U)-D)
- Combination with ECH$_2$O thermal store EKHWP-(P)B to provide domestic hot water with support from the sun

Perfect match with any heat emitters

- Combination with underfloor heating applications
- Combination with heat pump convectors Daikin Altherma HPC

Fits under a window





DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 M

Air-to-water monobloc system that provides **heating, domestic hot water and optionally cooling**. Ideal for limited installation space.

- WLAN cartridge connection standard included
- Possible to combine with domestic hot water tanks
- Heating only or reversible models available
- Monobloc all-in-one concept including all hydraulic parts
- Optional plug & play integrated 3 kW electric back-up heater
- Available in one phase



EDLA04-08E(3)V3

-25°
Guaranteed operation down to -25°C

Onecta app

Voice control



BRC1HHDK

up to A+++ D

A+ F

65 °C

R-32

EBLA04-08EV3 EBLA04-08E3V3 EDLA04-08EV3 EDLA04-08E3V3

Single Unit					EDLA04E(3)V3	EBLA04E(3)V3	EDLA06E(3)V3	EBLA06E(3)V3	EDLA08E(3)V3	EBLA08E(3)V3
Heating capacity	Nom.			kW	4.30 (1)/4.60 (2)	4.30 (1)/4.60 (2)	6.00 (1)/5.90 (2)	6.00 (1)/5.90 (2)	7.50 (1)/7.90 (2)	7.50 (1)/7.80 (2)
Power input	Heating	Nom.		kW	0.84 (1)/1.26 (2)	0.84 (1)/1.26 (2)	1.24 (1)/1.69 (2)	1.24 (1)/1.69 (2)	1.63 (1)/2.23 (2)	1.63 (1)/2.23 (2)
COP					5.10 (1)/3.65 (2)	5.10 (1)/3.65 (2)	4.85 (1)/3.50 (2)	4.85 (1)/3.50 (2)	4.60 (1)/3.50 (2)	4.60 (1)/3.50 (2)
Cooling capacity	Nom.			kW	-	4.86 (1)/4.52 (2)	-	5.83 (1)/5.09 (2)	-	6.18 (1)/5.44 (2)
Power input	Heating	Nom.		kW	-	0.82 (1)/1.36 (2)	-	1.08 (1)/1.55 (2)	-	1.19 (1)/1.73 (2)
EER					-	5.91 (1)/3.32 (2)	-	5.40 (1)/3.28 (2)	-	5.19 (1)/3.14 (2)
Space heating	Average climate water outlet 55 °C	General	ηs (Seasonal space heating efficiency)		127	129	127	128	130	131
			SCOP		3.26	3.29	3.26	3.28	3.32	3.35
			Seasonal space heating eff. class							
	Average climate water outlet 35 °C	General	ηs (Seasonal space heating efficiency)		176	179	176	178	179	181
			SCOP		4.48	4.54	4.47	5.52	4.56	4.61
			Seasonal space heating eff. class							
Casing	Colour				Ivory white					
	Material				Zinc coated low carbon steel					
Dimensions	Unit	HeightxWidthxDepth		mm	770x1,250x362					
Weight	Unit			kg	EV3: 88, E3V3: 91					
Compressor	Quantity				1					
	Type				Hermetically sealed swing compressor					
Operation range	Heating	Ambient	Min.~Max.	°CWB	-25 ~ 25	-25 ~ 35	-25 ~ 25	-25 ~ 35	-25 ~ 25	-25 ~ 35
		Water side	Min.~Max.	°C	EV3: 9 ~ 65 / E3V3: 15 ~ 65					
	Cooling	Ambient	Min.~Max.	°CDB	-	10 ~ 43	-	10 ~ 43	-	10 ~ 43
		Water side	Min.~Max.	°C	-	5 ~ 22	-	5 ~ 22	-	5 ~ 22
	Domestic hot water	Ambient	Min.~Max.	°CDB	-27 ~ 35					
		Water side	Min.~Max.	°C	25 ~ 55					
Refrigerant	Type				R-32					
	GWP				675					
	Charge			kg	1.85					
	Charge			TCO2Eq	0.91					
	Control				Expansion valve					
Sound power level	Heating	Nom.		dBA	58		60		62	
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230					
Current	Recommended fuses			A	20				25	

(1) Cooling Ta 35°C - LWE 18°C (DT=5°C), Heating Ta DB/WB 7°C/6°C - LWC 35°C (DT=5°C) (2) Cooling Ta 35°C - LWE 7°C (DT=5°C), Heating Ta DB/WB 7°C/6°C - LWC 55°C (DT=5°C).
This product contains fluorinated greenhouse gases.

*Domestic hot water in combinations with stainless steel tank EKHWS(P)(U)-D and ECH$_2$O thermal store EKHWP-(P)B.



Daikin Altherma 3 M (11-14-16 kW)

The power pact

The Daikin Altherma 3 M is the Daikin's first third generation monobloc, benefiting from a new design and using the R-32 refrigerant.

Compact improved design

A redesigned casing
The black front grill made of horizontal lines is hiding the fan from view, reducing the perception of the sound produced by the unit.

The light grey casing is slightly reflecting the environment where the unit is installed, helping it to blend in in any decor.

A single fan for high capacity units
The single fan is slightly larger, replacing the usual double fan for high capacity units. The shape of the fan has also been reviewed to reduce the contact surface with air therefore lower the sound level by improving the air circulation.



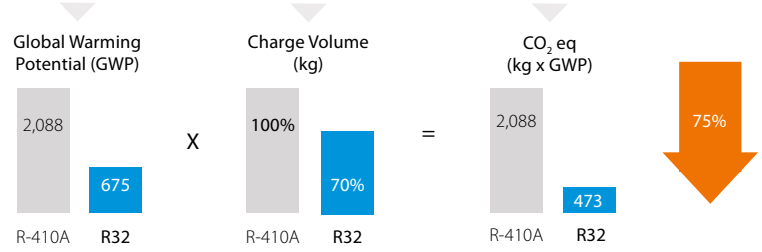


R-32 monobloc

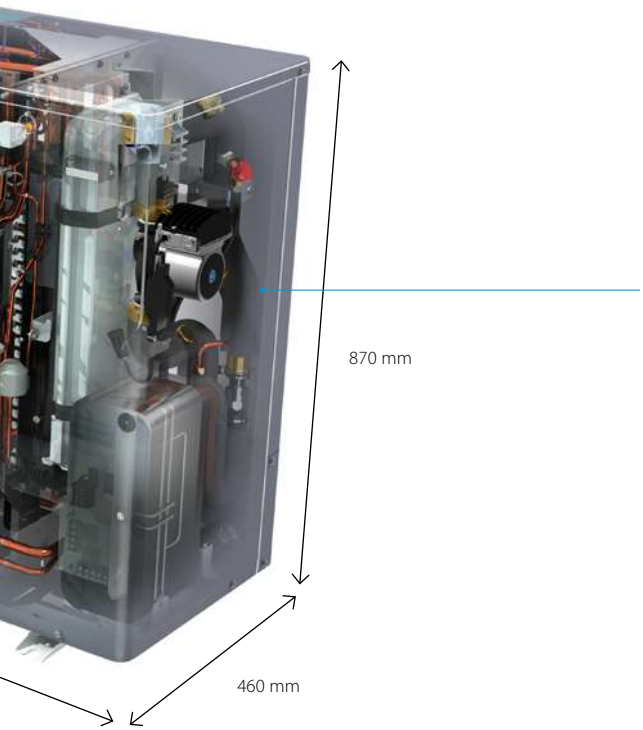
Daikin is a pioneer in launching heat pumps equipped with R-32. With a lower Global Warming Potential (GWP), the R-32 is equivalent in power to standard refrigerants, but achieves higher energy efficiency and lower CO_2 emissions. Easy to recover and reuse, R-32 is the perfect solution for attaining the new European CO_2 emission targets.

Reduced environmental impact: CO_2eq > 75% reduction

- GWP: R410A: 2,088 > R32: 675
- 30% less refrigerant charge needed



R-32 BLUEVOLUTION

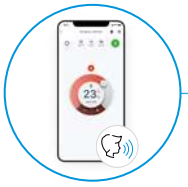


A simple solution to space limitation
Thanks to the monobloc set-up, no indoor unit is required which helps when space is limited inside. The monobloc can even fit under a window!



Fully connected

The Daikin Altherma 3 M also finds its power in Daikin Altherma total solution, including controls, heat collectors and heat emitters.



Onecta App, with voice control

- Control the heating system from home or remote via smartphone
- Control the heating system with the voice
- Include integrations with Google Assistant and Amazon Alexa
- Featuring other functions: scheduling and holiday mode, control multiple units and boosting mode, monitoring energy consumption…



Cloud ready with WLAN option





Madoka, user-friendly wired room thermostat

- Sleek and elegant design
- Intuitive touch-button control
- Three colours to match any interior (white, black and silver-grey)
- Compact, measures only 85 x 85 mm

DESIGN AWARD 2018

reddot award 2018 winner

Heating and cooling emitters

As a mid-temperature heat pump, the Daikin Altherma 3 M fits perfectly with any type of emitters such as fan coils, underfloor heating or heat pumps convectors.

Man-machine interface
Inspired from the design awarded Daikin Altherma third generation interface of indoor units, this new controller gathers all benefits:





☑ **The Daikin Eye**
The intuitive Daikin eye shows you in real time the status of the system. Blue is perfect! Should the eye turn red, an error has occured.

☑ **Quick to configure**
Log in and you'll be able to completely configure the unit via the new interface in less than 10 steps. You can even check if the unit is ready for use by running test cycles!

☑ **Easy operation**
Work super-fast with the new interface. It's super easy to use with just a few buttons and 2 navigational knobs.

☑ **Beautiful design**
The interface was especially designed to be very intuitive. The high contrasted colour screen delivers stunning and practical visuals that really help you as installer or service engineer.

☑ **WLAN cartridge connection**

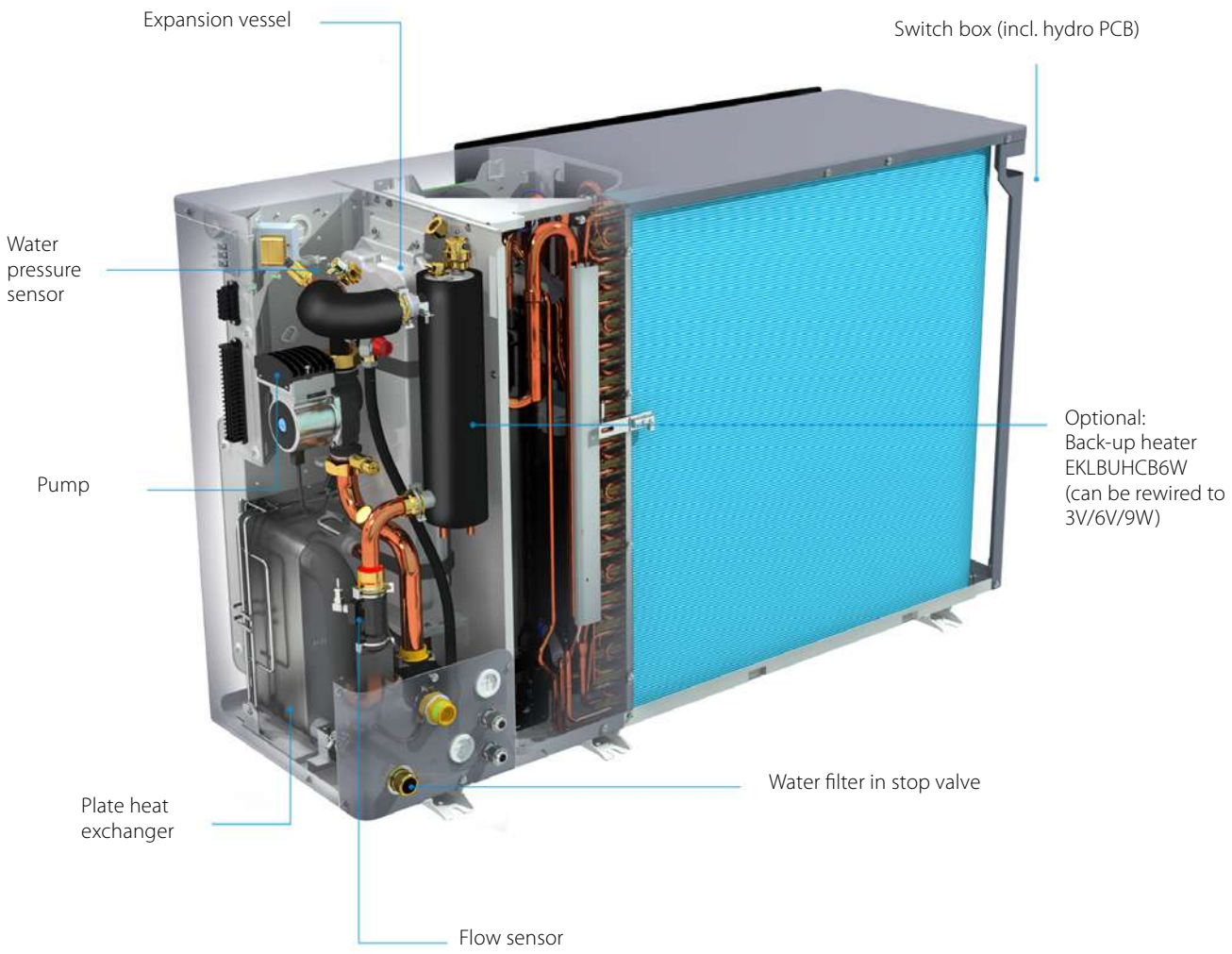
☑ **Discreet thanks to small dimensions**
H x W x D 136 x 160 x 37 mm



Domestic hot water production
The Daikin Altherma 3 M monobloc combines with stainless steel tanks (EKHWS(P)-D) and thermal stores and panels (EKHWP) to provide efficient domestic hot water.

Straight forward installation & maintenance

The Daikin Altherma 3 M also gets its power from inside by including all hydraulic components into one single unit.



Comfort and premium performance

The Daikin Altherma 3 M shows improved performances as well as a wide product range.

Extended product range

- Heating only models (EDLA*)
- Reversible models providing cooling (EBLA*)
- One-phase models (EB/DLA-DV*)
- Three-phase models (EB/DLA-DW*)
- Back-up heater models (EB/DLA-D3V/D3W)
- Back-up heater less models (EB/DLA-D/DW)
- All available in 9, 11, 14 and 16 kW

Improved performances

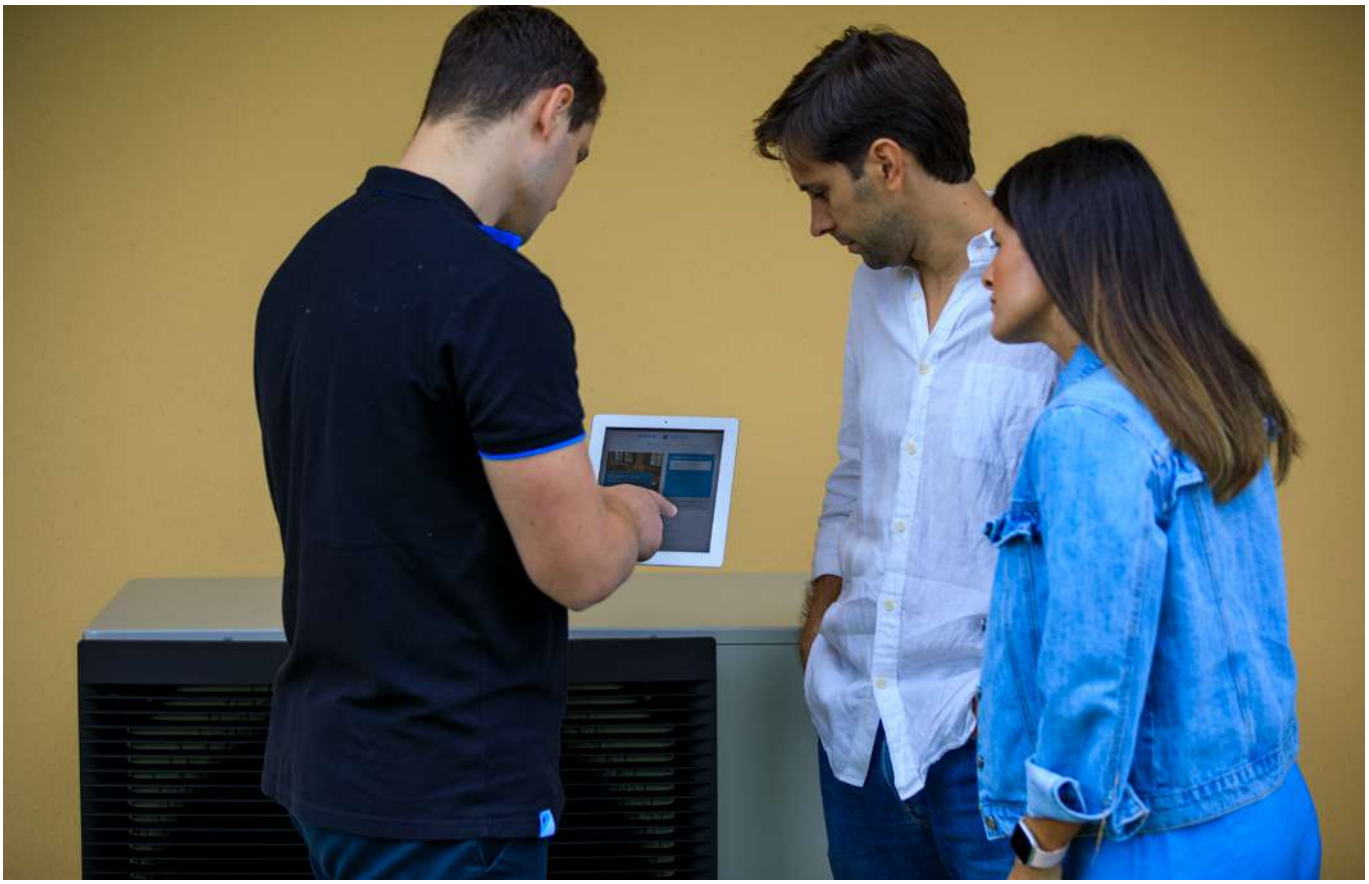
- Up to A+++
- Operation down to -25°C outside temperature
- Guaranteed heating capacities down to -20°C
- Delivers LWT 60°C at -7°C
- Suitable for renovations, replacement, and large new buildings

Flexibility in domestic hot water production

- Combination with stainless steel domestic hot water tank (EKHWS(P)(U)-D)
- Combination with ECH$_2$O thermal store to provide domestic hot water with support from the sun

Perfect match with any heat emitters

- Combination with underfloor heating applications
- Combination with heat pump convectors Daikin Altherma HPC



Daikin Altherma 3 M

Heating only air to water monobloc system, ideal when indoor space is limited

- W-LAN cartridge connection (optional)
- Possible to combine with domestic hot water tanks
- Heating only air-to-water heat pump
- Monobloc all-in-one concept including all hydraulic parts
- Available with Built-in 3 kW electric back-up heater for additional heating or with a separate back-up heater kit
- Available in one phase and three phase



BRC1HHDK

-25°
Guaranteed operation down to -25°C

Onecta app

Voice control



EDLA09-16DV3/DW1

up to A+++ A+++ ↑ D

60 °C

R-32

011-1W0423 → 426

EDLA09-14DV3 | EDLA09-14D3V3 | EDLA09-14DW1 | EDLA09-14D3W1 | EDLA-DV37 | EDLA-DW17 | EDLA-D3V37 | EDLA-D3W17

Single Unit				EDLA	09D(3)V3/D(3)W1	11D(3)V3/D(3)W1	14D(3)V3/D(3)W1	16D(3)V3/D(3)W1
Heating capacity	Nom.			kW	9.37 (1)/9.00 (2)	10.6 (1)/9.82 (2)	12.0 (1)/12.5 (2)	16.0 (1)/16.0 (2)
Power input	Heating	Nom.		kW	1.91 (1)/2.43 (2)	2.18 (1)/2.68 (2)	2.46 (1)/3.42 (2)	3.53 (1)/4.56 (2)
COP					4.91 (1)/3.71 (2)	4.83 (1)/3.66 (2)	4.87 (1)/3.64 (2)	4.53 (1)/3.51 (2)
Space heating	Average climate water outlet 55 °C	General	ηs (Seasonal space heating efficiency)		133	130	132	130
			SCOP		3.39	3.32	3.37	3.33
			Seasonal space heating eff. class		A+++			
	Average climate water outlet 35 °C	General	ηs (Seasonal space heating efficiency)		186	182		
			SCOP		4.72	4.64	4.62	
			Seasonal space heating eff. class		A+++			
Casing	Colour				Silver			
	Material				Polyester painted galvanised steel plate			
Dimensions	Unit	HeightxWidthxDepth		mm	870x1,380x460			
Weight	Unit			kg	DV3/DW1: 147, D3V3/D3W1: 149			
Compressor	Quantity				1			
	Type				Hermetically sealed swing compressor			
Operation range	Heating	Ambient	Min. ~ Max.	°CWB	DV3/DW1: -25 ~ 25, D3V3/D3W1: -25 ~ 35			
		Water side	Min. ~ Max.	°C	DV3/DW1: 9 ~ 60, D3V3/D3W1: 15 ~ 60			
	Domestic hot water	Ambient	Min. ~ Max.	°CDB	-25 ~ 35			
		Water side	Min. ~ Max.	°C	25 ~ 55			
Refrigerant	Type				R-32			
	GWP				675			
	Charge			kg	3.80			
	Charge			TCO2Eq	2.57			
	Control				Expansion valve			
Sound power level (3)	Heating	Nom.		dBA	62			
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1 ~ /50/230 - W1/3 ~ /50/400			
Current	Recommended fuses			A	32/16			

(1) Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | (2) Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) | (3) According to EN14825
This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 M

Reversible air to water monobloc system, ideal when indoor space is limited

- W-LAN cartridge connection (optional)
- Possible to combine with domestic hot water tanks
- Heating and cooling air-to-water heat pump
- Monobloc all-in-one concept including all hydraulic parts
- Available with Built-in 3 kW electric back-up heater for additional heating or with a separate back-up heater kit
- Available in one phase and three phase



BRC1HHDW



EDLA09-16DV3/DW1

-25°
Guaranteed operation down to -25°C

Onecta app

Voice control

up to A+++ (A+++ ↑ D)

60 °C

R-32

011-1W0423 → 426

EBLA09-14DV3 EBLA09-14D3V3 EBLA09-14DW1 EBLA09-14D3W1 EBLA-DV37 EBLA-DW17 EBLA-D3V37 EBLA-D3W17

Single Unit				EBLA	09D(3)V3/D(3)W1	11D(3)V3/D(3)W1	14D(3)V3/D(3)W1	16D(3)V3(7)/D(3)W1(7)
Heating capacity	Nom.			kW	9.37 (1)/9.00 (2)	10.6 (1)/9.82 (2)	12.0 (1)/12.5 (2)	16.0 (1)/16.0 (2)
Power input	Heating	Nom.		kW	1.91 (1)/2.43 (2)	2.18 (1)/2.68 (2)	2.46 (1)/3.42 (2)	3.53 (1)/4.56 (2)
COP					4.91 (1)/3.71 (2)	4.83 (1)/3.66 (2)	4.87 (1)/3.64 (2)	4.53 (1)/3.51 (2)
Cooling capacity	Nom.			kW	9.35 (3)/9.10 (4)	11.6 (3)/11.5 (4)	12.8 (3)/12.7 (4)	14.0 (3)/15.3 (4)
Power input	Cooling	Nom.		kW	2.79 (3)/1.71 (4)	3.56 (3)/2.17 (4)	4.06 (3)/2.51 (4)	4.58 (3)/3.24 (4)
EER					3.35 (3)/5.34 (4)	3.26 (3)/5.31 (4)	3.16 (3)/5.04 (4)	3.06 (3)/4.74 (4)
SEER					5.62 (5)	5.79 (5)	5.71 (5)	5.59 (5)
Space heating	Average climate water outlet 55 °C	General	ηs (Seasonal space heating efficiency)		135	132	134	132
			SCOP		3.44	3.37	3.42	3.37
			Seasonal space heating eff. class					
	Average climate water outlet 35 °C	General	ηs (Seasonal space heating efficiency)		190	186	185	
			SCOP		4.82	4.73	4.70	4.69
			Seasonal space heating eff. class					
Casing	Colour				Silver			
	Material				Polyester painted galvanised steel plate			
Dimensions	Unit	HeightxWidthxDepth		mm	870x1,380x460			
Weight	Unit			kg	DV3/DW1: 147, D3V3/D3W1: 149			
Compressor	Quantity				1			
	Type				Hermetically sealed swing compressor			
Operation range	Heating	Ambient	Min. ~ Max.	°CWB	DV3(7)/DW1(7): -25 ~ 25, D3V3(7)/D3W1(7): -25 ~ 35			
		Water side	Min. ~ Max.	°C	DV3(7)/DW1(7): 9 ~ 60, D3V3(7)/D3W1(7): 15 ~ 60			
	Cooling	Ambient	Min. ~ Max.	°CDB	10 ~ 43			
		Water side	Min. ~ Max.	°C	5 ~ 22			
	Domestic hot water	Ambient	Min. ~ Max.	°CDB	-25 ~ 35			
		Water side	Min. ~ Max.	°C	25 ~ 55			
Refrigerant	Type				R-32			
	GWP				675			
	Charge			kg	3.80			
	Charge			TCO2Eq	2.57			
	Control				Expansion valve			
Sound power level (5)	Heating	Nom.		dBA	62			
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1 ~ /50/230 - W1/3 ~ /50/400			
Current	Recommended fuses			A	32/16			

(1) Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | (2) Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) | (3) Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (4) Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | (5) According to EN14825. This product contains fluorinated greenhouse gases.

Combination table and options

			R-32 small monobloc (4-6-8 kW)			
			Without back-up heater		With back-up heater	
			Rev	H/O	Rev	H/O
			EBLA04EV3	EDLA04EV3	EBLA04E3V3	EDLA04E3V3
			EBLA06EV3	EDLA06EV3	EBLA06E3V3	EDLA06E3V3
			EBLA08EV3	EDLA08EV3	EBLA08E3V3	EDLA08E3V3
Type	**Description**	**Material name**				
Controls	Madoka wired room thermostat	BRC1HHDAK/S/W(7)	•	•	•	•
	Wired digitial thermostat	EKRTWA	•	•	•	•
	Wireless room by room control	Daikin Home Controls (page 288)	•	•	•	•
	LAN Adapter	BRP069A62 (with MMI from v6.8.0)	•	•	•	•
	WLAN cartridge	BRP069A78	•	•	•	•
	Universal centralised controller for cascade	EKCC9-W DCOM-LT/IO,-LT/MB	•	•	•	•
Multi-zoning controls	Digital wired room thermostat	EKWCTRDI1V3	•	•	•	•
	Analog wired room thermostat	EKWCTRAN1V3	•	•	•	•
	Actuator	EKWCVATR1V3	•	•	•	•
	Multi-zoning base station (10 channels)	EKWUFHTA1V3	•	•	•	•
Sensors	Remote indoor temperature sensor	KRCS01-1	• (1)	• (1)	• (1)	• (1)
	Remote outdoor temperature sensor	EKRSCA1	• (1)	• (1)	• (1)	• (1)
	Temperature sensor for EKHWS(P)-D	EKTESE1	•	•	•	•
	Temperature sensor for EKHWP-(P)B	EKTESE2	•	•	•	•
Domestic hot water	DHW tank	EKHWS(P)(U)-D(3)V3	•	•	•	•
	Thermal stores	EKHWP500(P)B	•	•	•	•
	Third party tank kit	EKHY3PART	• (2)	• (2)	• (2)	• (2)
	Third party tank kit	EKHY3PART2	• (3)	• (3)	• (3)	• (3)
Heat pump convector	Floor standing	FWXV15/20/25*	• (4)	• (4)	• (4)	• (4)
	Wall mounted	FWXT15/20/25*	• (4)	• (4)	• (4)	• (4)
	Concealed	FWXM15/20/25*	• (4)	• (4)	• (4)	• (4)
Other options	Back-up heater kit	EKLBUHCB6W	• (5)	•		
	By-pass kit	EKMBHBP1	• (5)			
	Generic Bizone kit (PCB only)	EKMIKPOA	•	•	•	•
	Generic Bizone kit	EKMIKPHA	•	•	•	•
	Digital I/O PCB	EKRP1HBAA	• (6)	• (6)	• (6)	• (6)
	Demand PCB	EKRP1AHTA	•	•	•	•
	Anti-freeze valve with diam. 1	AFVALVE1	•	•	•	•
	Anti-freeze valve with diam. 1 1/4"	AFVALVE125	•	•	•	•
	Balancing valve	KBLNVALVE				
	Decoupler	KDECOUP				
	PC USB cable	EKPCCAB4	•	•	•	•
	Smart grid relay kit (high voltage)	EKRELSG	•	•	•	•
	Flow switch	EKFLSW1				
	Flow switch	EKEFLSW2	• (7)	• (7)	• (7)	• (7)

(1) Only 1 sensor can be connected: indoor OR outdoor sensor.
(2) EKHY3PART can be used if you have a tank in which you can insert a thermistor.
(3) EKHY3PART2 can be used if you have a tank in which you can't insert a thermistor.
(4) Multi combination (quantity, depends on capacity class). EKVKHPC needs to be installed mandatory on heat pump convector (exception: LT- H/O).
(5) Check 'EKMBHBP1 necessity drawing' to decide to install it in combination with reversible models, in order to avoid sweat on the back-up heater.
(6) Additional relays to allow bivalent control in combination with external room thermostat are field supply.
(7) Mandatory if glycol is used.

R-32 large monobloc (9-11-14-16 kW)			
Without back-up heater		With back-up heater	
Rev	H/O	Rev	H/O
EBLA09DV3/W1	EDLA09DV3/W1	EBLA09D3V3/W1	EDLA09D3V3/W1
EBLA11DV3/W1	EDLA11DV3/W1	EBLA11D3V3/W1	EDLA11D3V3/W1
EBLA14DV3/W1	EDLA14DV3/W1	EBLA14D3V3/W1	EDLA14D3V3/W1
EBLA16DV37/W17	EDLA16DV37/W17	EBLA16D3V37/W17	EDLA16D3V37/W17
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
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•	•	•	•
• (1)	• (1)	• (1)	• (1)
• (1)	• (1)	• (1)	• (1)
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• (2)	• (2)	• (2)	• (2)
• (3)	• (3)	• (3)	• (3)
• (4)	• (4)	• (4)	• (4)
• (4)	• (4)	• (4)	• (4)
• (4)	• (4)	• (4)	• (4)
• (5)	•		
• (5)			
•	•	•	•
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• (6)	• (6)	• (6)	• (6)
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• (7)	• (7)	• (7)	• (7)

Domestic hot water heat pumps

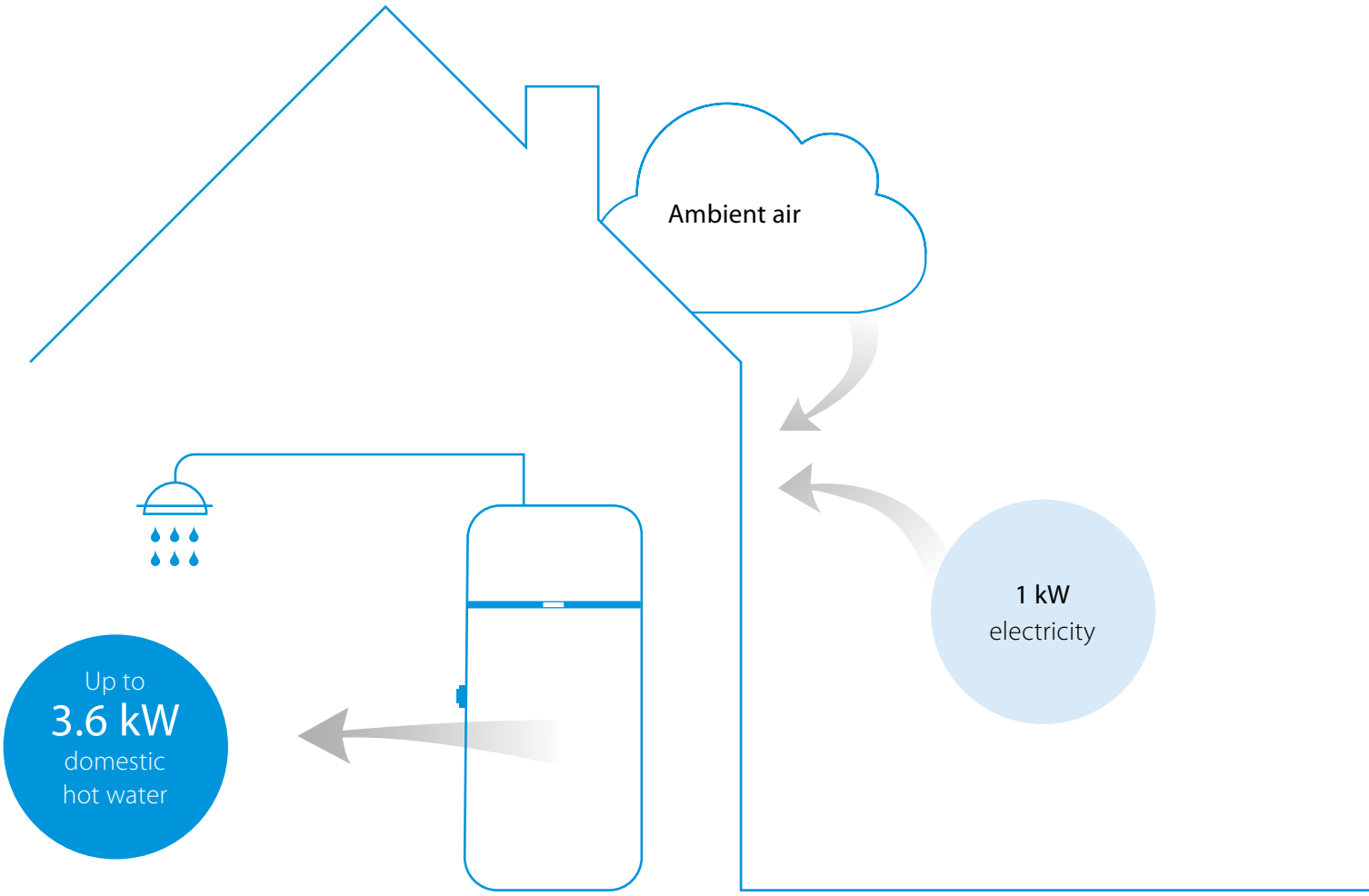


Why choose Daikin Altherma domestic hot water heat pump?

How does it work?

The system is made of a singly indoor unit that extracts energy from the air to provide domestic hot water. The unit collects up to 60% of its energy in the air, while the rest is provided by electricity.

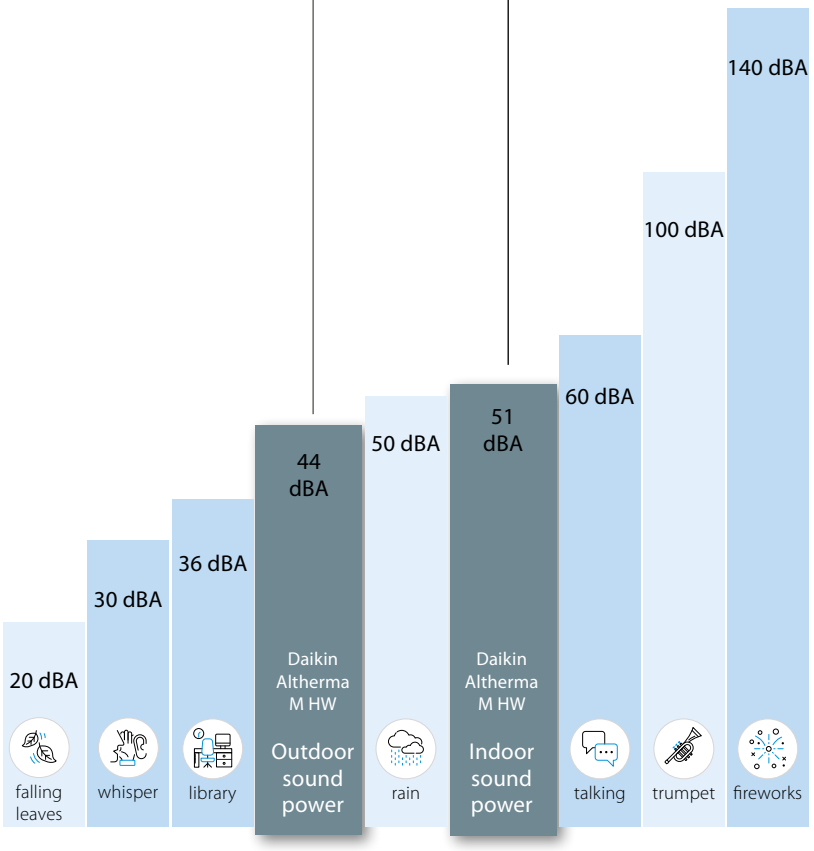
This heat pump relies on a compressor and a refrigerant to transfer the energy from the air to the water, heating the water up to your needs and delivering it into your house.



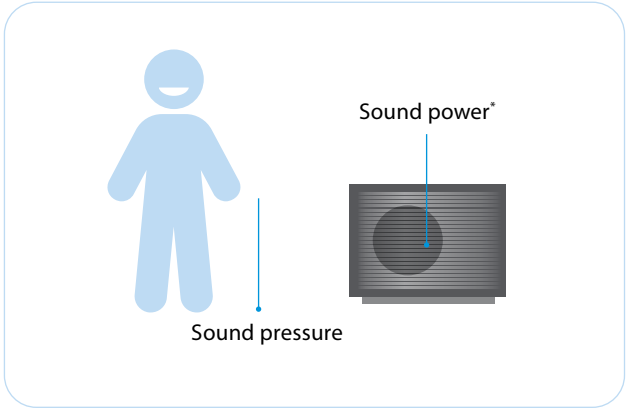


Remarkably quiet

With a sound power of 51dB(A) indoor, and 44dB(A) outdoor, it is one of the most silent domestic hot water heat pump.



Sound pressure scale



The acoustic level can be evaluated in two ways

- The **sound power** is generated by the unit itself, independently of distance and environment
- The **sound pressure** is the sound perceived at a certain distance. The sound pressure is usually calculated at between 1 and 5 metres from the unit.

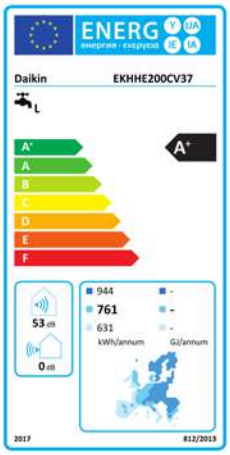
Product range



EKHHE200CV37 EKHHE200PCV37 EKHHE260CV37 EKHHE260PCV37 EKHLE200CV3 EKHLE260CV3

These models are connectable to solar thermal or another auxiliary source, thanks to an extra coil, support the heat up of domestic hot water.

High temperature models are dedicated for warm climate conditions.



Features

Daikin Altherma M HW is an air-water heat pump for the production of domestic hot water, storage in a enamelled steel tank, with condenser having an external jacket to guarantee top safety and hygiene.

- Maximum temperature of 62 °C from renewable energy with heat pump alone or through a heating element (up to 75 °C)
- Programmable digital interface with TOUCH keys
- Integration through Solar Thermal energy (-PCV37 model)
- Integration with Photovoltaic Solar system

Intuitive controls

A very simple and intuitive display

- White backlit LEDs to control temperature and features
- Red backlit LEDs for alarm warnings
- The 4 side TOUCH keys turn Daikin Altherma M HW on/off (⏻); keys to browse through the MENU (SET) and increase (+) or decrease (-) settings



Fan mode
Air recirculation only

Daikin Altherma M HW only works in ventilation mode. The heat pump and additional heater are off.



Eco mode
Reneable energy only

Daikin Altherma M HW only works in heat pump mode. The additional heater turns on as a support only if the outdoor temperature is outside the operating range (setpoint 62 °C).



Electric mode
Electrical energy only

Daikin Altherma M HW only works with the additional heater. Set point can be up to 75 °C.



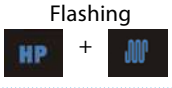
Auto mode
Renewable energy as the preferred option

Daikin Altherma M HW works in heat pump mode by default. The additional heater turns on as a support only if the tank temperature increase is too slow (>4 °C/30 min). Or the outdoor temperature is outside the operating range (setpoint 62 °C).



Boost mode
Combined use of renewable and electrical energy

Daikin Altherma M HW simultaneously operates as a heat pump and with the additional heater. Setpoint can be up to 75 °C.

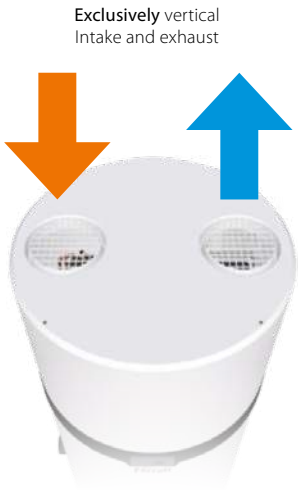


Specifications

Type	Volume (l)	Capacity	Dimensions (mm)	Optimisation from Photovoltaic	Integrated Solar Thermal Control	Legionella Control Sanitisation	Time slot-based operation	OFF PEAK feature	Defrosting on	Holiday Mode
EKHHE-CV37	200	3-4	628 x 628 x 1,607	•	-	•	•	•	•	•
	260	4-5	628 x 628 x 1,892	•	-	•	•	•	•	•
EKHHE-PCV37	200	3-4	628 x 628 x 1,607	•	•	•	•	•	•	•
	260	4-5	628 x 628 x 1,892	•	•	•	•	•	•	•
EKHLE-CV3	200	3-4	628 x 628 x 1,607	•	-	•	•	•	-	•
	260	4-5	628 x 628 x 1,892	•	-	•	•	•	-	•

Installation

Daikin Altherma M HW can be installed in any room, including non-heated ones like garages and laundry rooms, and does not require any special work, except for the holes for the air intake and exhaust pipes.



Some installation methods

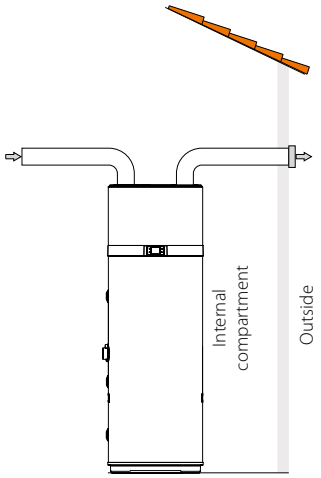


Fig. 1 - Example of air discharge connection

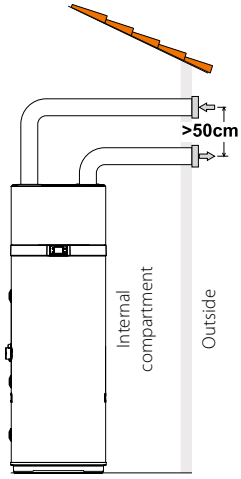


Fig. 2 - Example of air discharge connection

The heat pump requires suitable air ventilation. A suggested method for a designated air duct is provided in Fig. 1. Plus, it is essential to guarantee suitable ventilation in the room where the appliance is installed.

An alternative solution is provided in the picture on the right (Fig. 2): it involves additional ducting that draws air from outdoors, rather than directly from indoors.

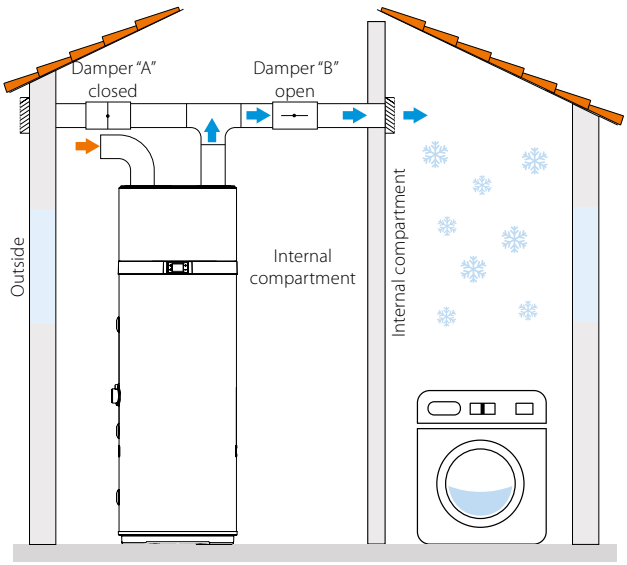


Fig. 3 - Example of installation in summer

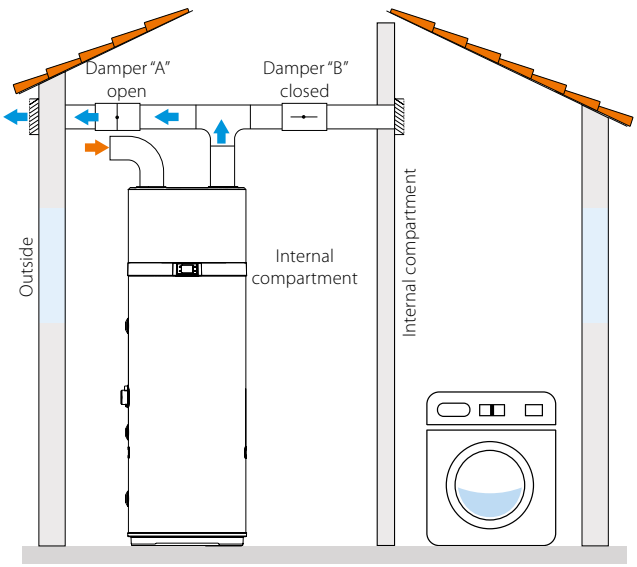


Fig. 4 - Example of installation in winter

One of the unique features of heat-pump heating systems is the fact that these units considerably reduce the temperature of the air, which is usually ejected outdoors. As well as being colder than the air in the room, the ejected air is also completely dehumidified, which is why the airflow can be conveyed back into the home to cool specific areas or rooms in summer. Installation involves doubling the exhaust pipe, on which two dampers ("A" and "B") are applied to convey the airflow either outside (fig. 3) or inside the house (fig. 4).

Daikin Altherma M HW Second Generation

- Available in floor standing (200-260 L)
- Compact modern design
- Anti-legionella cycle
- Scheduled operation
- Integrated solar thermal control (EKHHE-PCV37)
- Suitable for warm climate (EKHLE-CV3)



EKHHE200CV37

EKHHE-CV37 EKHHE-PCV37 EKHLE-CV3

Indoor unit				EK	HHE200CV37	HHE260CV37	HHE200PCV37	HHE260PCV37	HLE200CV3	HLE260CV3
Heat up time	Max.			hh:mm	06:27	09:29	06:27	09:29	07:16	09:44
COP					3.23	3.37	3.23	3.37	4.32	4.32
Domestic hot water	Output	Nom		kW	1.34	1.25	1.34	1.25	1.60	
Equivalent hot water	Max			l	247	340	241	335	247	340
Dimensions	Unit	Height		mm	1,607	1,892	1,607	1,892	1,607	1,892
		Diameter		mm	Top: 621, Bottom: 628					
Weight	Unit	Empty		kg	85	97	96	106	86	98
Installation place					Indoor					
IP class					IP24					
Refrigerant	Type				R-134a					
	GWP				1,430					
	Charge			TCO2Eq	1.43					
	Charge			kg	1					
Heat pump	Casing	Colour			White					
	Defrost method				Hot gas				-	-
	Automatic defrost start			°C	-5				-	-
	System pressure	Max.		bar	7					
	Operation range	Ambient	Min.	°CDB	-7				4	
			Max.	°CDB	43					
	Power supply	Phase			1					
		Frequency		Hz	50					
		Voltage		V	230					
		Maximum running current		A	8.5				8.2	
Tank	Integrated heating element power	Nom.		kW	1.5					
	Casing	Material			Enamelled steel					
	Installation	Solar thermal connection possible			-	-	Yes	Yes	-	-
	Standing heat loss			W	63	71	63	71	63	70
	Power supply	Phase			1					
		Frequency		Hz	50					
		Voltage		V	230					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
		Water heating energy efficiency class								
		Thermostat temperature setting		°C	55					
	Average climate	AEC (Annual electricity consumption)		kWh	761	1,210	761	1,210	883	1,315
		ηwh (water heating efficiency)		%	135	138	135	138	116	127
	Cold climate	AEC (Annual electricity consumption)		kWh	944	1,496	944	1,496	883	1,315
	Warm climate	AEC (Annual electricity consumption)		kWh	631	1,046	631	1,046	883	1,315
Sound power level	Domestic hot water heating			dBA	53	51	53	51	52	

This product contains fluorinated greenhouse gases.

reddot award 2018
winner

DESIGN AWARD 2018



Daikin Altherma 3 GEO

Top performance even in coldest climate

The Daikin Altherma ground source heat pump uses geothermal energy and Daikin's inverter heat pump technology to deliver heating and hot water in all climates.

Space heating

During winter

Space cooling

Active cooling with high efficiency

Domestic hot water production

Integrated 180 L stainless steel tank



Leaving water temperature up to 65 °C, so the unit can work with underfloor heating, heat pump convectors but also with radiators.

Renovation and new build

Suitable for renovation: thanks to a high water temperature of 65 °C output, the unit fits with classic radiators.

Suitable for new build: the Daikin Altherma 3 GEO is also combinable with fan coils and underfloor piping.

Electricity savings

The continuous inverter operation allows a high modulation range down to 0.85kW, avoiding the unit to use more electricity to stop and start.

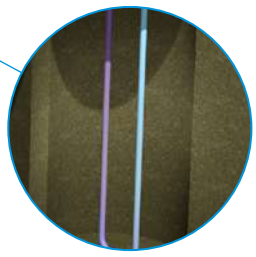
BLUEVOLUTION

Bluevolution technology using R-32, environmentally friendly refrigerant with a lower GWP, reducing its CO_2 equivalent by 70% compared to its predecessor R-410A.





Daikin Altherma HPC provides heating or cooling for living rooms.



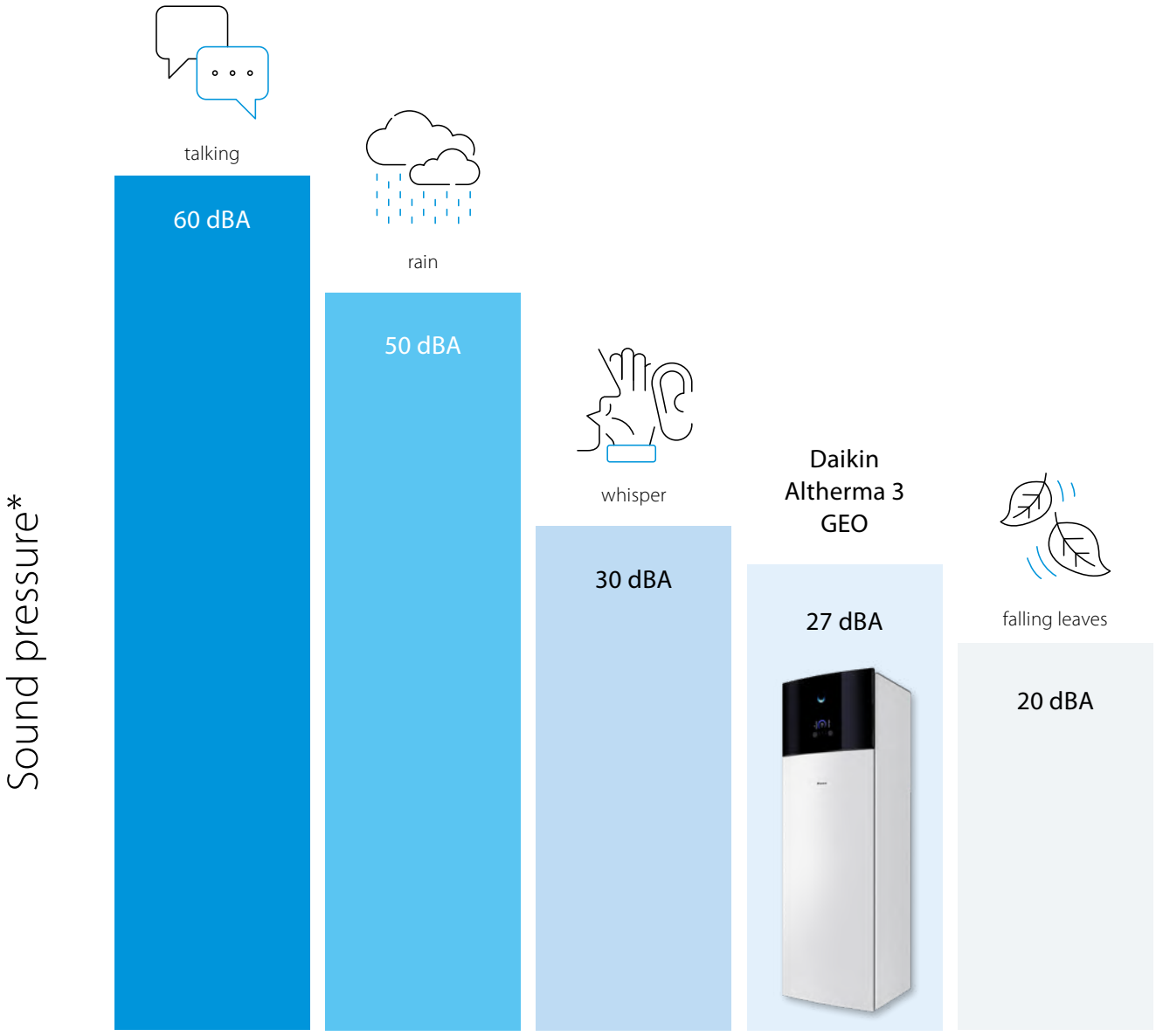
An 80-100 metre borehole in the ground creates a constant inlet temperature.

Care for peace of mind

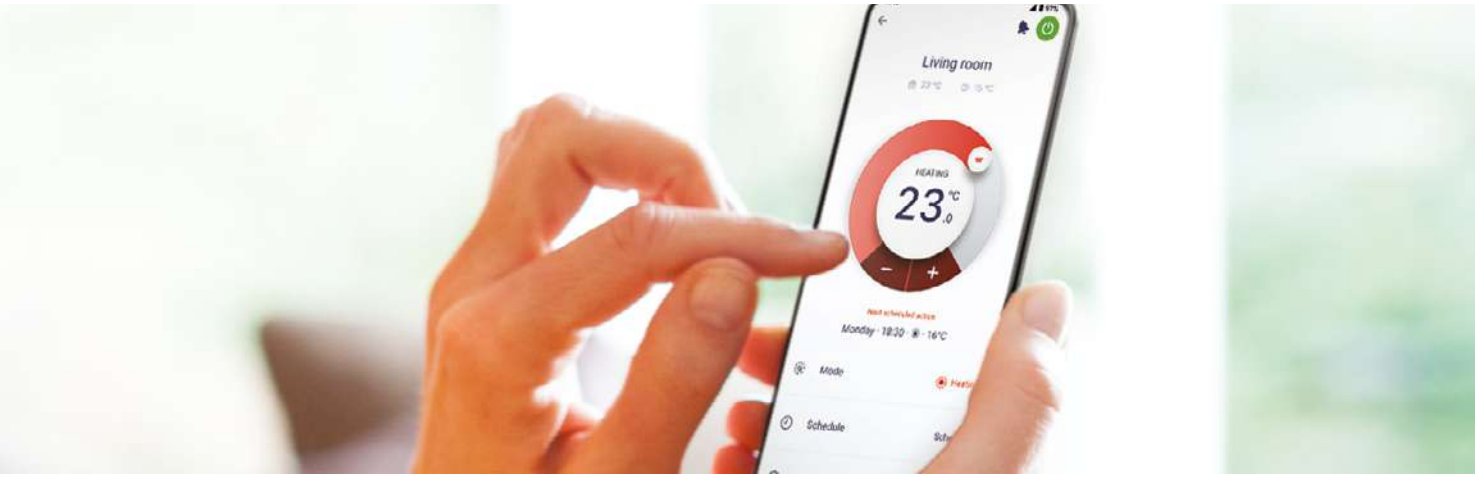
The Daikin Altherma 3 GEO is designed to perform the best efficiencies in what matter the most: quietness and connectivity.



Extremely quiet operation



*at 1 meter.



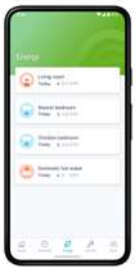
Built-in connectivity

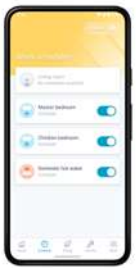
Control your home climate from any place, at any time

Onecta App

Always in control. Control your climate from any place, at any time.


Control


Monitor


Schedule

- Monitor the status of your heating system
- Control the operation mode and set temperature
- Schedule the set temperature and operation mode
- Control your heating system with your voice

Madoka wired remote controller for Daikin Altherma

A new generation of user interface, designed and intuitive.



BRC1HHDAW7



BRC1HHDAS7



BRC11HHDAK7

- ☑ Intuitive control with a premium design
- ☑ Three colors to match any interior design
- ☑ Easily set operation parameters



Groundbreaking innovation

Quick and easy installation thanks to factory-fitted piping on top of the unit, pre-cabled electrical connections and reduced overall weight.

All pipe connections on top, paired in and out



Standard electrical connections pre-cabled

Can easily be installed in confined spaces thanks to a small footprint and integrated handles





Advanced
user interface

The Daikin Eye
The intuitive Daikin eye shows you in real time the status of your system.



Quick to configure
Log in and you'll be able to completely configure the unit via the new user interface in 9 steps. You can even check if the unit is ready for use by running test cycles. You can upload the settings on an USB stick and download it directly into the unit.

Easy operation
Work super-fast with the new user interface. It's easy to use with just a few buttons and 2 navigational knobs.

Beautiful design
The user interface was especially designed to be very intuitive. The high contrasted colour screen delivers stunning and practical visuals that really help you as installer or service engineer.

Blue
When the Daikin Eye indicates a blue colour, it means the heat pump is functioning properly. The Daikin Eye will flash on and off when it's running on stand by mode.

Red
When the Daikin Eye indicates a red colour, it means the heat pump is out of commission and requires a maintenance check.



Removable compressor module, reducing the overall weight by 70 kg



Daikin Altherma 3 GEO

Ground source heat pump for **heating, cooling & hot water**

- Top-level seasonal efficiency thanks to our inverter heat pump technology providing the highest savings on running costs
- Delivering temperatures up to 65 °C at high efficiency, the R-32 Daikin Altherma 3 GEO is suitable for underfloor heating/cooling, fan coils and radiators
- Integrated indoor unit: all-in-one floor standing unit including the stainless steel domestic hot water tank saves space and installation time
- The unit has a similar footprint when compared to other household appliances
- Reversible heat pump, allowing heating and cooling


EGSAH-D9W


BRC1HHDW

Onecta app

Voice control

up to A+++ D

A+ F

65 °C

R-32

011-1W0337
011-1W0338

EGSAH-D9W EGSAX-D9W

Indoor Unit				EGSA	H06D9W	X06D9W	H10D9W	X10D9W
Heating capacity	Min.			kW	0.85			
	Nom.			kW	3.35		5.49	
	Max.			kW	7.98		9.55	
Power input	Nom.			kW	0.74		1.17	
COP					4.51		4.70	
Space heating	Average climate water outlet 55°C	General	ηs (Seasonal space heating efficiency)	%	141	143	152	154
			Seasonal space heating eff. class		A++		A++	
	Average climate water outlet 35°C	General	ηs (Seasonal space heating efficiency)	%	195	199	197	200
			Seasonal space heating eff. class		A+++			
Domestic hot water heating	General	Declared load profile			L			
	Average climate	ηwh (water heating efficiency)		%	117			
		Water heating energy efficiency class			A+			
Space cooling	Medium temperature application	General	SEER		-	15	-	15
			Pdesign	kW	-	8	-	8
	Low temperature application	General	SEER		-	14	-	14
			Pdesign	kW	-	8	-	8
Casing	Colour				White or Silver-grey			
	Material				Precoated sheet metal			
Dimensions	Unit	HeightxWidthxDepth		mm	1,891x597x666			
Weight	Unit			kg	222			
Tank	Water volume			l	180			
	Insulation	Heat loss		kWh/24h	1.20			
	Corrosion protection				Pickling			
Operation range	Installation space		Min. ~ Max.	°C	5/35			
	Brine side		Min. ~ Max.	°C	-10/30			
	Heating	Water side	Min. ~ Max.	°C	5/65			
	Domestic hot water	Water side	Min. ~ Max.	°C	25/60			
Refrigerant	Type				R-32			
	GWP				675			
	Charge			kg	1.70			
	Charge			TCO2Eq	1.15			
Sound power level	Nom.			dBA	39		41	
Sound pressure level at 1 meter	Nom.			dBA	27		29	
Power supply	Name/Phase/Frequency/Voltage			Hz/V	3 ~ /50/400 or 1 ~ /50/230			
Current	Recommended fuses			A	3P 16A or 1P 32A			

This product contains fluorinated greenhouse gases.

Options

	Type	Material name
Controls	Remote user interface	BRC1HHDAK/S/W
	Room thermostat (wired)	EKRTWA
	Room thermostat (wireless)	EKRTRB
	Cascade control	EKCC9-W
	Gateway	DCOM-LT/IO
	Gateway	DCOM-LT/MB
Adapter	Demand PCB	EKRP1AHTA
	Digital I/O PCB	EKRP1HBAA
Sensor	Remote indoor sensor	KRCS01-1
	External sensor	EKRTETS
	Reduce power limiation sensor	EKCSENS
Others	PC cable	EKPCCAB4
	Ground source filling kit	KGSFILL2
	Separate power supply BUH	EKGSPOWCAB
	Magnetic filter Fernox	K.FERNOXTF1
	Magnetic filter Fernox	K.FERNOXTF1FL

Daikin Altherma

Hybrid heat pump



Why choose a Daikin Altherma Hybrid heat pump?

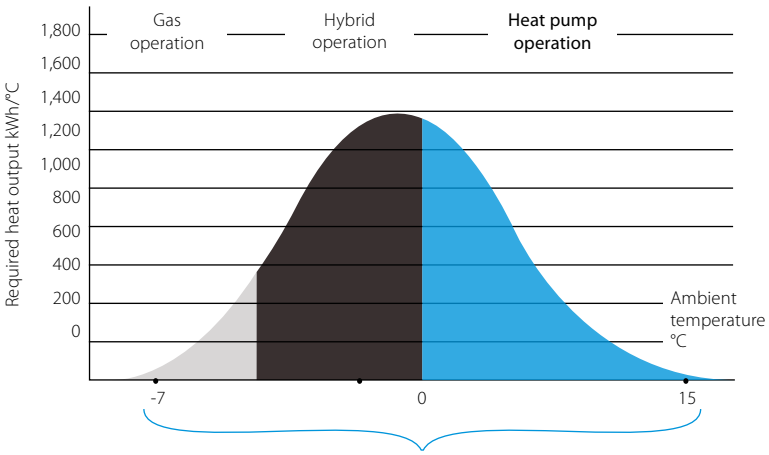
The Daikin Altherma Hybrid heat pump is the ideal solution to replace your old gas boiler.

☑ Comfort

Heating
A Daikin Altherma Hybrid heat pump automatically determines the most economic and energy efficient heating combination.

- **Heat pump operation:** the best available technology for optimising running costs at moderate outdoor temperatures
  Hybrid operation: both the gas boiler and heat pump operate simultaneously to deliver the ultimate comfort for your customer
  Gas operation: when outdoor temperatures drastically drop, the unit will automatically switch to gas operation mode

Illustration of an average European climate

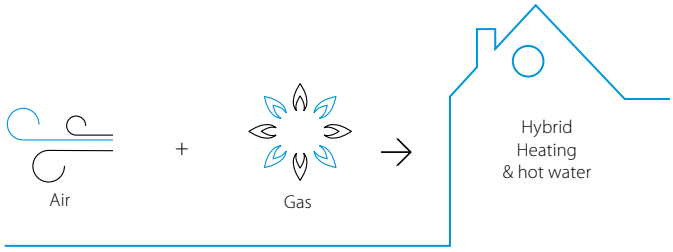


+ 35% efficiency
(space heating) compared to condensing boiler

- Heat load: 14 kW
- 70% heat pump output
- 30% gas boiler output

Heat load = the capacity of the space heating system required to maintain comfortable indoor temperatures at any time

Required heat output = heat load x n° of occuring hours per year



Hot water
The gas condensing boiler's dual heat exchanger increases hot water efficiency by up to 15% when compared with traditional gas boilers.

Cooling
Incorporate cooling for a total solution that provides all year round comfort.

Quick and easy installation
As the heat pump indoor unit and gas condensing boiler are delivered as separate units, they are easier to handle, operate and install.

Investment benefits
- Combines with existing radiators; reducing the cost and disruption of installations
- Coverage of heat loads up to 27 kW makes this unit ideal for renovation applications
- Possible to connect to photovoltaïc solar panels to optimise self-consumption of the electiricy produced



Heat pump outdoor unit


Heat pump indoor unit

Energy efficiency

The ideal combination
Depending on the outdoor temperature, energy prices and the internal heat load, the Daikin Altherma Hybrid heat pump smartly chooses between the heat pump and/or the gas boiler, possibly in simultaneous operation, and always selects the most economic operation mode.

Supported by renewable energy
When working in heat pump mode, the system is powered by renewable energy extracted from the air and can achieve up to **A++ energy efficiency**.

Hot water produced with gas condensing technology
Unique dual heat exchanger increases efficiency up to 15% compared to traditional gas boilers.

- Cold tap water flows directly into the heat exchanger
- Optimal and continuous condensing of the flue gases during domestic hot water preparation

Reliability

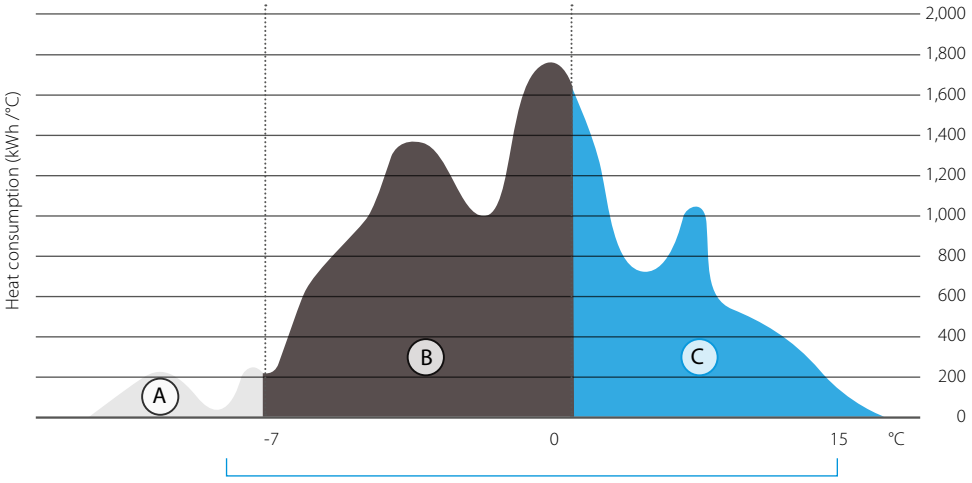
- Low investment cost with no need to replace existing piping and radiators
- Low running costs for heating and domestic hot water
- Compact dimensions
- Ideal for renovation applications
- Easy and fast installation



Case study

Replacing a gas boiler with a Daikin Altherma Hybrid heat pump means saving on running costs for both space heating and domestic hot water supply.

A running costs comparison is made below based on parameters for a typical Belgian winter. As a result of the Hybrid principle, the most cost-efficient operation will be used no matter the ambient outdoor temperature.



A 100% use of gas boiler
B Heat pump + gas boiler
C 100% use of heat pump

+35% efficiency (space heating) compared to existing condensing gas boiler

	Daikin altherma Hybrid heat pump	New gas condensing boiler	Existing gas condensing boiler
		Space heating	
Energy supplied by HP	12,800 kWh		
HP efficiency	3.64 Scop		
Energy supplied by gas boiler	6,700 kWh	19,500 kWh	19,500 kWh
Space heating efficiency	90%	90%	75%
Running costs	1,220 €	1,520 €	1,820 €
		DHW heating	
Energy supplied by gas boiler*	3,000 kWh	3,000 kWh	3,000 kWh
DHW heating efficiency*	90%	80%	65%
Running costs*	230 €	260 €	320 €
		Total	
Running costs	1,450 €	1,780 €	2,140 €

Conditions

Heat load	16 kW
Design temperature	-8 °C
Space heating off temperature	16 °C
Maximum water temperature	60 °C
Minimum water temperature	38 °C
Gas price	0.070 €/kWh
Electricity price (day)	0.237 €/kWh
Electricity price (night)	0.152 €/kWh
Total space heating requirement	19,500 kWh
Total DHW heating requirement (4 persons)	3,000 kWh

* for combi-boiler, no separate domestic hot water tank

→ Yearly savings: for space heating and domestic hot water

-19% versus new gas condensing boiler **330 €/year**

-32% versus existing gas condensing boiler **690 €/year**

Daikin Altherma R Hybrid

Hybrid technology combining condensing **gas and air to water** heat pump **for heating and hot water**

- Heating only + heating and cooling models
- Depending on outdoor temperature, energy prices and internal heat load, Daikin Altherma Hybrid heat pump always selects the most economical mode to operate
- Low investment cost: no need to replace the existing radiators (up to 80 °C) and pipe work
- Provides sufficient heat in renovation applications as all heat loads are covered up to 32 kW
- Easy and fast installation thanks to the compact dimensions and quick interconnections



011-1W0313
011-1W0314

EHYHBH-AV32 EHYHBX-AV3 EVLQ-CV3

up to A+++ ↑ D

A A+ ↑ F

55 °C

R-410A

Efficiency data						EHYHBH05AV32 + EVLQ05CV3	EHYHBH08AV32 + EVLQ08CV3	EHYHBX08AV3 + EVLQ08CV3
Space heating	Average climate water outlet 55 °C	General	SCOP			3.28	3.24	3.29
			ηs (Seasonal space heating efficiency)		%	128	127	129
			Seasonal space heating eff. class				A+	
Domestic hot water heating	General	Declared load profile					XL	
	Average climate	ηwh (water heating efficiency)			%		83.80	
		Water heating energy efficiency class					A	
	Nom.				kW	4.40 (1)/4.03 (2)	7.40 (1)/6.89 (2)	7.40 (1)/6.89 (2)
Cooling capacity	Nom.				kW	-		6.86 (1)/5.36 (2)
Power input	Heating	Nom.			kW	0.870 (1)/1.13 (2)	1.66 (1)/2.01 (2)	1.66 (1)/2.01 (2)
	Cooling	Nom.			kW	-		2.01 (1)/2.34 (2)
COP						5.04 (1)/3.58 (2)	4.45 (1)/3.42 (2)	4.45 (1)/3.42 (2)
EER						-		3.42 (1)/2.29 (2)

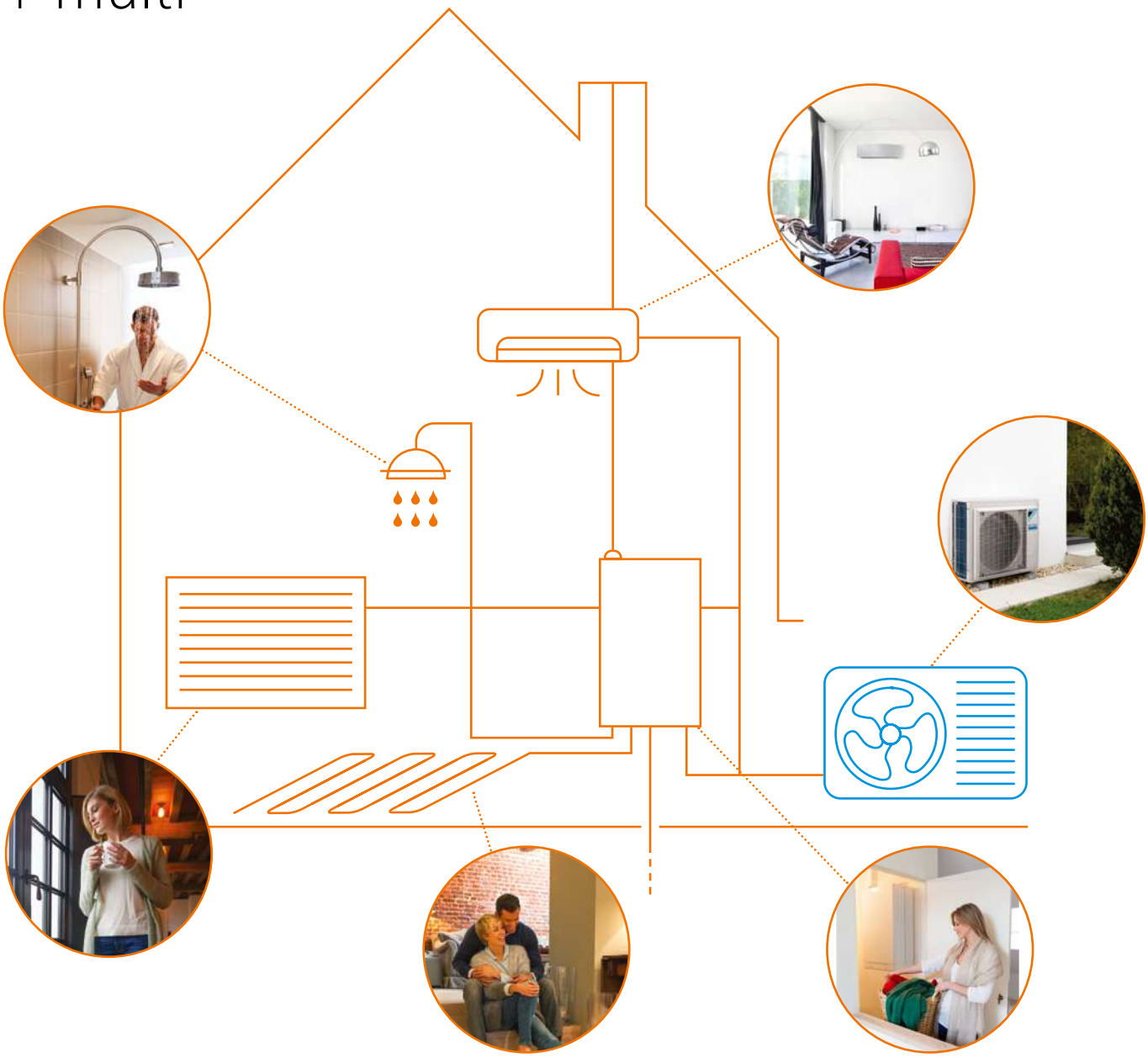
Indoor unit (Hydrobox & Boiler)					EHYHBH05AV32	EHYHBH08AV32	EHYHBX08AV3	EHYKOMB33AA2	EHYKOMB33AA3
Central heating	Heat input Qn (net calorific value)	Nom	Min/Max	kW	-			6.20/7.60/7.60/22.10/27/27	
	Output Pn at 80/60 °C	Min/Nom		kW	-			6.70/8.20/8.20/21.80/26.60/26.60	
	Efficiency	Net calorific value		%	-			98/107	
	Operation range	Min/Max		°C	-			15/80	
Domestic hot water	Output	Min/Nom		kW	-			7.60/32.70	
	Water flow	Rate	Nom	l/min	-			9/15	
	Operation range	Min/Max		°C	-			40/65	
Gas	Connection	Diameter		mm	-			15	
	Consumption (G20)	Min/Max		m^3/h	-			0.78/3.39	
	Consumption (G25)	Min/Max		m^3/h	-			0.90/3.93	
	Consumption (G31)	Min/Max		m^3/h	-			0.30/1.29	
Supply air	Connection			mm	-			100	
	Concentric				-			1	
Flue gas	Connection			mm	-			60	
Casing	Colour				White			White - RAL9010	
	Material				Precoated sheet metal			Precoated sheet metal	
Dimensions	Unit	HeightxWidthxDepth	Casing	mm	902x450x164			710x450x240	
Weight	Unit	Empty		kg	30	31.20		36	
Power supply	Phase/Frequency/Voltage			Hz/V	-			1~/50/230	
Electrical power consumption	Max.			W	-			55	
	Standby			W	-			2	
Operation range	Heating	Ambient	Min. ~ Max.	°C	-25 ~ 25			-	
		Water side	Min. ~ Max.	°C	25 ~ 55			-	
	Cooling	Ambient	Min. ~ Max.	°CDB	- ~ -		10 ~ 43	-	
		Water side	Min. ~ Max.	°C	- ~ -		5 ~ 22	-	

Outdoor unit					EVLQ05CV3	EVLQ08CV3
Dimensions	Unit	HeightxWidthxDepth		mm	735x832x307	
Weight	Unit			kg	54	56
Compressor	Quantity				1	
	Type				Hermetically sealed swing compressor	
Operation range	Heating	Min. ~ Max.		°CWB	-25 ~ 25	
Refrigerant	Type				R-410A	
	GWP				2,088	
	Charge			kg	1.50	1.60
	Charge			TCO2Eq	3	3.30
	GWP				2,088	
Sound power level	Heating	Nom.		dBA	61	62
Sound pressure level	Heating	Nom.		dBA	48	49
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1 ~/50/230	
Current	Recommended fuses			A	16	20

(1) Ta DB/WB 7 °C/6 °C - LWC 35 °C (DT = 5 °C) (2) Condition: Ta DB/WB 7 °C/6 °C - LWC 45 °C (Dt=5 °C) (3) Cooling Ta 35 °C - LWE 18 °C (DT = 5 °C); heating Ta DB/WB 7 °C/6 °C - LWC 35 °C (DT = 5 °C).
(4) Cooling Ta 35 °C - LWE 7 °C (DT = 5 °C); heating Ta DB/WB 7 °C/6 °C - LWC 45 °C (DT = 5 °C).
This product contains fluorinated greenhouse gases.

Daikin Altherma R Hybrid

+ multi



The Daikin Altherma Hybrid heat pump can also be combined with an air-to-air multi system to provide optimal cooling. Easily installed and managed via an app on a smartphone or tablet, the Daikin Altherma Hybrid heat pump + multi is an all-in-one system for heating, cooling and hot water purposes.

→ Multi features

- ☑ **Equipped with Bluevolution technology**
- ☑ **3, 4 and 5 ports for multi outdoor units**
- ☑ **Combinable with different Split & Sky Air indoor units:**
  One port can be used for hot water production

Control with Onecta App

BLUEVOLUTION

CHYHBH-AV32 EHYKOMB-AA2 EHYKOMB-AA3

	CHYHBH-A		CTXA-AW/BS/BT/BB	FTXA-AW/BS/BT/BB					FTXJ-AW/S/B						CTXM-R	FTXM-R							FTXP-M9			CVXM-A	FVXM-A			FVXM-F				FCAG-B			FFA-A9				FBA-A9			FDXM-F9				FNA-A9				FHA-A9		
	05	08	15	20	25	35	42	50	20	25	35	42	50	15	20	25	35	42	50	60	71	20	25	35	20	25	35	50	25	35	50	35	50	60	25	35	50	60	35	50	60	25	35	50	60	25	35	50	60	35	50	60
3MXM52A	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•		•	•	•		•	•	•		•	•	
3MXM68A	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•					•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4MXM68A	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•									•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4MXM80A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•								•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
5MXM90A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•								•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Efficiency data					**CHYHBH05AV32 /3MXM52A**	**CHYHBH05AV32 /3MXM68A**	**CHYHBH05AV32 /4MXM68A**	**CHYHBH05AV32 /4MXM80A**	**CHYHBH08AV32 /4MXM80A**	**CHYHBH05AV32 /5MXM90A**	**CHYHBH08AV32 /5MXM590A**
Heating capacity	Nom.			kW	4.41 (1)	4.50 (1)			6.78 (1)	4.50 (1)	6.78 (1)
COP					4.49 (1)	3.91 (1)		4.04 (1)	4.17 (1)	4.04 (1)	4.17 (1)
Pump					51.80 (1)						
Seasonal efficiency	Domestic hot water heating	General	Declared load profile		XL						
		Average climate	ηwh (water heating efficiency)	%	96						
Water heating energy efficiency class					A						

(1) DB/WB 7°C/6°C - LWC 35°C (DT=5°C), boiler bypassed

Indoor Unit (Hydrobox)					**CHYHBH05AV32**	**CHYHBH08AV32**
Casing	Colour				White	
	Material				Precoated sheet metal	
Dimensions	Unit	HeightxWidthxDepth		mm	902x450x164	
Weight	Unit			kg	30	
Operation range	Heating	Ambient	Min. ~ Max.	°C	-15 ~ 24	
		Water side	Min. ~ Max.	°C	25 ~ 50	

Indoor unit (Boiler)					**EHYKOMB33AA2/AA3**
Central heating	Heat input Qn (net calorific value)	Nom	Min/Max	kW	6.20/7.60/7.60/22.10/27/27
	Output Pn at 80/60°C	Min/Nom		kW	6.70/8.20/8.20/21.80/26.60/26.60
	Efficiency	Net calorific value		%	98/107
	Operation range	Min/Max		°C	15/80
Domestic hot water	Output	Min/Nom		kW	7.60/32.70
	Water flow	Rate	Nom	l/min	9/15
	Operation range	Min/Max		°C	40/65
Gas	Connection	Diameter		mm	15
	Consumption (G20)	Min/Max		m^3/h	0.78/3.39
	Consumption (G25)	Min/Max		m^3/h	0.90/3.93
	Consumption (G31)	Min/Max		m^3/h	0.30/1.29
Supply air	Connection			mm	100
	Concentric				1
Flue gas	Connection			mm	60
Casing	Colour				White - RAL9010
	Material				Precoated sheet metal
Dimensions	Unit	HeightxWidthxDepth	Casing	mm	710x450x240
Weight	Unit	Empty		kg	36
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/230
Electrical power consumption	Max.			W	55
	Standby			W	2

This product contains fluorinated greenhouse gases.

Options

		Type	Material name
Controllers		LAN adapter	BRP069A62
		LAN adapter + PV solar connection	BRP069A61
		Remote user interface (DE, FR, NL, IT)	EKRUCBL1
		Remote user interface (EN, ES, EL, PT)	EKRUCBL3
		Remote user interface (EN, SV, NO, FI)	EKRUCBL2
		Remote user interface (EN, TR, PL, RO)	EKRUCBL4
		Remote user interface (DE, CS, SL, SK)	EKRUCBL5
		Remote user interface (EN, HR, HU, BG)	EKRUCBL6
		Remote user interface (EN, DE, RU, DA)	EKRUCBL7
		Simplified user interface	EKRUCBSB
		Room thermostat (wired)	EKRTWA
		Room thermostat (wireless)	EKRTRB
		Heat meter (EHYHBH* only)	K.HEATMET
		DCOM gateway	DCOM-LT/IO
		DCOM gateway	DCOM-LT/MB
Drain		Drain pan for reversible H/B	EKHYDP1
Installation		Cover plate 35	EKHY093467
		Installation jig	EKHYMNT1
Sensor		External sensor	EKRTETS
Valve		Valve kit for connection to 3rd party tank with built-in thermostat	EKHY3PART2
		Valve kit for connection to 3rd party tank with sensor pocket	EKHY3PART
Propane set		Propane set	EKHY075787

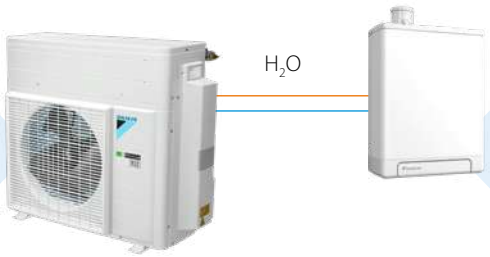
	Type	Material name
Flue gas connections	Adapter Flex-Fixed PP 100	EKFGP6316
	Adapter Flex-Fixed PP 130	EKFGS0252
	Chimney Connection 60/100	EKFGP4678
	Chimney Connection 60/100	EKFGP4678
	Chimney Connection 80/125	EKFGP4828
	Chimney Connection 60/10 Air Intake Dn. 80 C83	EKFGV1101
	Chimney Top PP 100 incl. Flue Pipe	EKFGP5497
	Chimney Top PP 130 incl. Flue Pipe	EKFGP5197
	Concentric connection Ø 80/125	EKHY090717
	Connector Flex-Flex PP 100	EKFGP6325
	Connector Flex-Flex PP 130	EKFGP6366
	Connector Flex-Flex PP 80	EKFGP6324
	Connection set 60/10-60 Flue/Air intake Dn. 80 C53	EKFGV1102
	Eccentric connection Ø 80	EKHY090707
	Elbow PP/ALU 80/125 90°	EKFGP4810
	Elbow PP/GLV 60/100 30°	EKFGP4664
	Elbow PP/GLV 60/100 45°	EKFGP4661
	Elbow PP/GLV 60/100 90°	EKFGP4660
	Elbow PP/GLV 80/125 30°	EKFGP4814
	Elbow PP MB-AIR 80 90°	EKFGW4085
	Elbow PP BM-AIR 80 45°	EKFGW4086
	Extension Flex PP 100 l=10 M	EKFGP6346
	Extension Flex PP 100 l=15 M	EKFGP6349
	Extension Flex PP 100 l=25 M	EKFGP6347
	Extension Flex PP 130 l=30 M	EKFGS0250
	Extension Flex PP 80 l=10 M	EKFGP6340
	Extension Flex PP 80 l=15 M	EKFGP6344
	Extension Flex PP 80 l=25 M	EKFGP6341
	Extension Flex PP 80 l=50 M	EKFGP6342
	Extension PP 60 x 500	EKFGP5461
	Extension PP/GLV 60/100 x 1,000 mm	EKFGP4652
	Extension PP/GLV 60/100 x 500 mm	EKFGP4651
	Extension PP/GLV 80/125 x 10,000 mm	EKFGP4802
	Extension PP/GLV 80/125 x 500 mm	EKFGP4801
	Extension P BM-Air 80 x 500	EKFGW4001
	Extension P BM-Air 80 x 1,000	EKFGW4002
	Extension P BM-Air 80 x 2,000	EKFGW4004
	Filling loop set	EKFL1AA
	Flex 100-60 + Support Elbow	EKFGP6354
	Flex 130-60 + Support Elbow	EKFGS0257
	Flex Kit PP Dn.60-80	EKFGP1856
	Flex Kit PP Dn.8	EKFGP2520
	Flue Deflector 60 (UK Only)	EKFGP1295
	Flue gas non-return flap	EKFGF1A
	Gas conversion kit from G20 to G25	EKPS076227
	Inspection Elbow Plus PP/ALU 80/125 90° EPDM	EKFGP4820
	Meas. Tee with Inspection Panel PP/GLV 60/100	EKFGP4667
	Plume Managment Kit 60 (UK Only)	EKFGP1294
	PMK Elbow 60 45° (2 pcs) (UK Only)	EKFGP1285
	PMK Elbow 60 90 (UK Only)	EKFGP1284
	PMK Extension 60 l=1,000 incl. breaket (UK Only)	EKFGP1286
	Roof Terminal PP/GLV 60/100 AR460	EKFGP6837
	Roof Terminal PP/GLV 80/125 AR300 Ral-9011	EKFGP6864
	Spacer PP 80-100	EKFGP6333
	Support Breaket Top Inox Dn.100	EKFGP6337
	Support Breaket Top Inox Dn.130	EKFGP6353
	Tee Flex 100 Boiler Connection set 1	EKFGP6368
	Tee Flex 130 Boiler Connection set 1	EKFGP6215
	Thermistor recirculator	EK TH2
	Wall Bracket Dn.100	EKFGP4481
	Wall Bracket Dn.100	EKFGP4631
	Wall Terminal Kit low profile PP/GLV 60/100	EKFGP1293
	Wall Terminal Kit low profile PP/GLV 60/100	EKFGP297 7
	Wall Terminal Kit PP/GLV 60/100	EKFGP2978
	Wall Terminal Kit PP/GLV 60/100	EKFGP1292
	Wall Terminal Kit PP/GLV 80/125	EKFGW6359
	Wall Terminal Kit low profile PP/GLV 60/100 (UK only)	EKFGP1299
	Weather Slate Flat Alu 60/100	EKFGP6940
	Weather Slate Flat Alu 60/100 0°-15°	EKFGP1296
	Weather Slate Flat Alu 80/125	EKFGW5333
	Weather Slate Flat Alu 80/125 0°-15°	EKFGP1297
	Weather Slate Steep Pb/GLV 60/100 18°-22°	EKFGS0518
	Weather Slate Steep Pb/GLV 60/100 23°-27°	EKFGS0519
	Weather Slate Steep Pb/GLV 60/100 43°-47°	EKFGS0523
	Weather Slate Steep Pb/GLV 60/100 48°-52°	EKFGS0524
	Weather Slate Steep Pb/GLV 60/100 53°-57°	EKFGS0525
	Weather Slate Steep Pb/GLV 80/125 18°-22°	EKFGT6300
	Weather Slate Steep Pb/GLV 80/125 23°-27°	EKFGT6301
	Weather Slate Steep Pb/GLV 80/125 43°-47°	EKFGT6305
	Weather Slate Steep Pb/GLV 80/125 48°-52°	EKFGT6306
	Weather Slate Steep Pb/GLV 80/125 53°-57°	EKFGT6307
	Weather Slate Steep PF 60/100 25°-45°	EKFGP7910
	Weather Slate Steep PF 80/125 25°-45° Ral-9011	EKFGP7909
	Elbow PP 60/100 90° + MP Generic	DR90ELBO60100AA
	Wall term Mugro STD 60/100 Telescopic	DRWTERT60100AA



Daikin Altherma H Hybrid

The best of 2 worlds

Heat pump



Condensing boiler

Environmentally friendly

- Reduced environmental impact thanks to the usage of **R-32 refrigerant**
- Outdoor unit with **sealed refrigerant circuit**, which greatly reduces the risk of refrigerant leakage



Easy & Quick installation
All hydraulics components are outside.



No F-gas licence required
Only water connections between outdoor and indoor unit. Therefore no F-gas certification is needed for the installer.

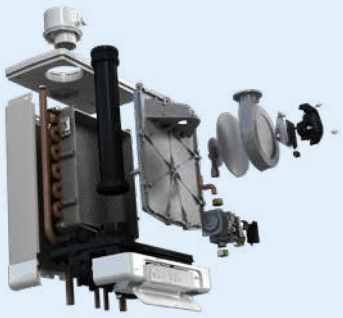
Safety in every conditions
The unit can work down to -15 °C outside thanks to multiple freeze-up protections



Flexible installation
Compact indoor unit can be installed in a cupboard.



Condensing technology
The condensing technology uses optimum fuel efficiency, with reduced emissions of NOx and CO, to ensure high cost savings and environmentally-friendly operation.



Plug & play
No need of other parts, the pump group is integrated inside.

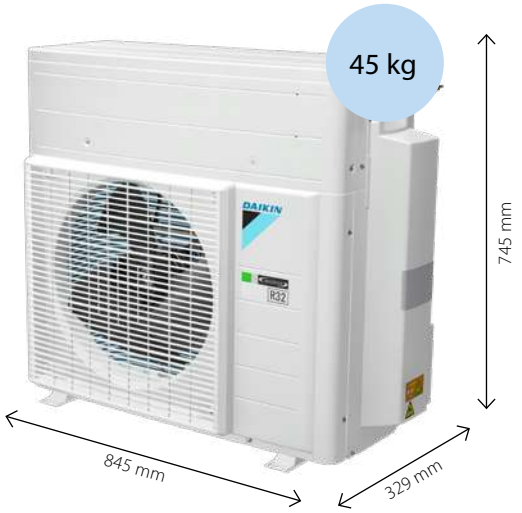
BLUEVOLUTION

The Bluevolution technology combines very high efficient compressors developed by Daikin with the future of refrigerants: R-32.

Installation possibilities

For more domestic hot water production, you can combine the Daikin Altherma H Hybrid with multiple tank options:

The Daikin Altherma H Hybrid is made of an outdoor unit of 4 kW



The Daikin Altherma H Hybrid is made of a boiler of 28 or 32 kW



Pressureless tanks with solar support

Connect your unit to a ECH$_2$O thermal store and take advantage of the energy of the sun.



EKHWP-(P)B
300 LT or 500 LT

EKS(H/V)-P

Pressurized tanks

Connect your unit with our full range of stainless steel tanks to answer all needs.



EKHWS(P)-D3V3
from 150 LT up to 300 LT

Controllers

EKRUHML1/2

Control

- Manage space heating and domestic hot water and among others, booster mode
- User-friendly remote control with contemporary design
- Easy to use with direct accessibility to all main functions

Comfort

- An additional user interface can include a room thermostat in the space to be heated
- Easy commissioning: intuitive interface for advanced menu settings



Onecta App

The Onecta App is a multifaceted programme that allows customers to control and monitor the status of their heating system.

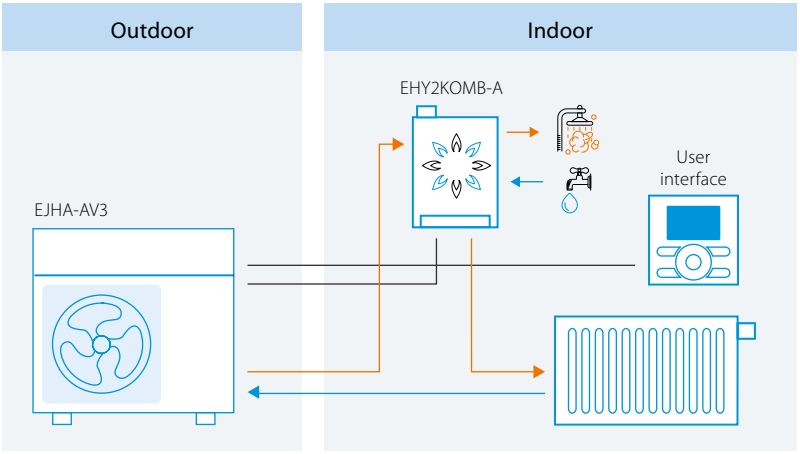
Control your heating system with your voice



Applications

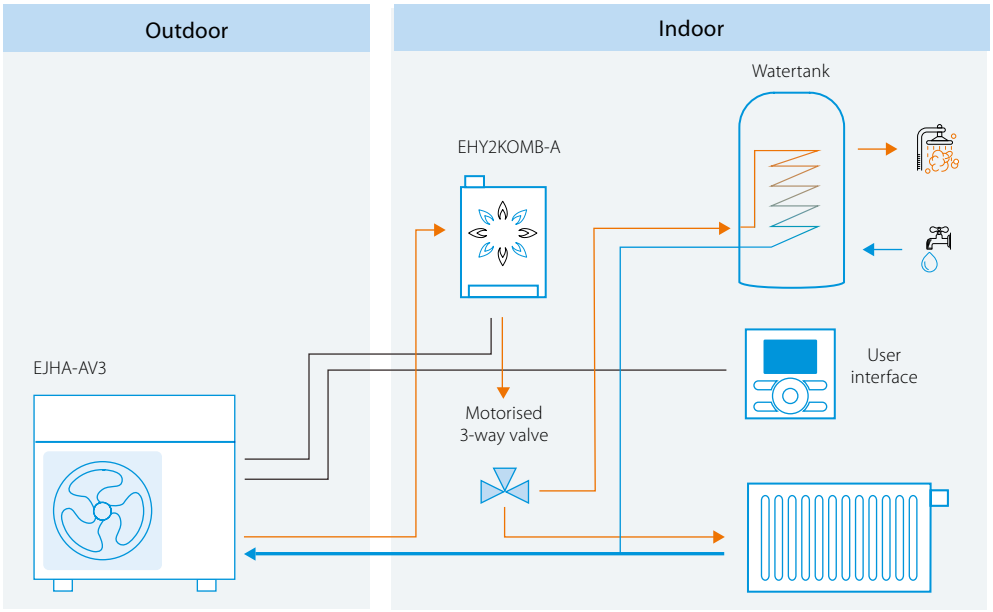
1. Standard Hybrid operation

With this application, the system works in a perfect balance between the gas boiler and the heat pump to provide space heating and domestic hot water. Here, the boiler is able to heat directly the water without a tank.



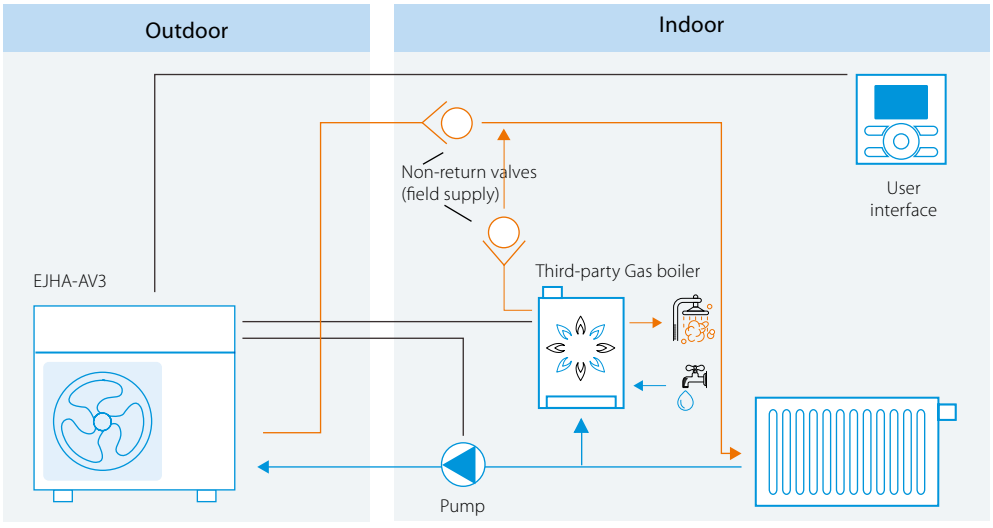
1.1 Standard Hybrid operation with a tank

In this application, a domestic hot water tank can be added if the system needs to provide high quantity of domestic hot water produced either by the heat pump or by the boiler.



2. Add-on operation

Daikin Altherma H Hybrid outdoor unit can be combined with an existing boiler. In such application, the system works in bivalent operation, meaning that this is strictly the heat pump or the boiler that is providing the required heat while in the standard applications, both can work at the same time.



DAIKIN altherma

Daikin Altherma H Hybrid

Hybrid technology combining condensing gas and air to water heat pump for **heating and hot water**

- Heating only models
- Depending on outdoor temperature, energy prices and internal heat load, the Daikin Altherma H Hybrid always selects the most economical mode to operate
- Low investment cost: no need to replace the existing radiators (up to 80 °C) and pipe work
- Provides sufficient heat in renovation applications as all heat loads are covered up to 32 kW
- Easy and fast installation thanks to the compact dimensions and water connections



011-1W0293

EHY2KOMB-A

EJHA-AV3

up to A+++ ↑ D

A ↑ A+ F

R-32

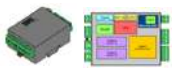
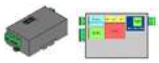
Efficiency data					EHY2KOMB28AA + EJHA04AAV3	EHY2KOMB32AA + EJHA04AAV3
Heating capacity	Nom.			kW	3.83 (1)	
Power input	Heating	Nom.		kW	0.85 (1)	
COP					4.49 (1)	
Space heating	Average climate water outlet 55 °C	General	SCOP		3.26	3.28
			ηs (Seasonal space heating efficiency)	%	128	
			Seasonal space heating eff. class		A++	
	Average climate water outlet 35 °C	General	SCOP		4.14	4.15
			ηs (Seasonal space heating efficiency)	%	163	
			Seasonal space heating eff. class		A+++	
Domestic hot water heating	General	Declared load profile			XL	
	Average climate	ηwh (water heating efficiency)		%	87	
		Water heating energy efficiency class			A	

Indoor unit					EHY2KOMB28AA	EHY2KOMB32AA
Central heating	Heat input Qn (net calorific value)	Nom	Min/Max	kW	7.10/23.70	7.60/27
	Output Pn at 80/60 °C	Nom		kW	23.10	26.60
	Efficiency	Net calorific value 80/60		%	98	99
	Efficiency	Net calorific value 37/30 (30%)		%	108	
	Operation range	Min/Max		°C	30/90	
Domestic hot water	Output	Min/Nom		kW	7.10/29.10	7.60/32.70
	Water flow	Rate 40/10 °C		l/min	12.50	15
	Operation range	Min/Max		°C	40/65	
Gas	Connection	Diameter		mm	15	
	Consumption (G20)	Min/Max		m^3/h	0.74/3.02	0.79/3.39
	Consumption (G31)	Min/Max		m^3/h	0.28/1.15	0.30/1.29
Supply air	Connection			mm	100	
	Concentric				1	
Flue gas	Connection			mm	60	
Casing	Colour				White - RAL9010	
	Material				Precoated sheet metal	
Dimensions	Unit	HxWxD	Casing	mm	650x450x240	710x450x240
Weight	Unit	Empty		kg	33	36
Power supply	Phase/Frequency/Voltage			Hz/V	1 ~/50/230	
Electrical power consumption	Max.			W	110	
	Standby			W	2	

Outdoor unit					EJHA04AAV3
Dimensions	Unit		HxWxD	mm	745x845x329
Weight	Unit			kg	45
Compressor	Quantity				1
	Type				Hermetically sealed swing compressor
Operation range	Heating		Min. ~ Max.	°CWB	-14 ~ 25
Refrigerant	Type				R-32
	GWP				675
	Charge			kg	0.56
	Charge			TCO2Eq	0.38
Sound power level	Heating		Nom.	dBA	58.70
Sound pressure level	Heating		Nom.	dBA	37
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1 ~/50/220-240
Current	Recommended fuses			A	20

(1) Ta DB/WB 7 °C/6 °C - LWC 35 °C (DT = 5 °C).
This product contains fluorinated greenhouse gases.

Options - system

Group		Description	Material name	Pair Hybrid	Add-on Hybrid
Controllers		User interface: English – Dutch – Italian – French	EKRUHML1	•	•
		User interface: English – Dutch – Italian – German	EKRUHML2	•	•
		Gateway 1: I/O version	DCOM-LT/IO(2)	•	•
		Gateway 2: Modbus version	DCOM-LT/MB(2)	•	•
		LAN + PV Solar	BRP069A61	•	•
		LAN only	BRP069A62	•	•
		Wired room thermostat	EKRTWA	•	
		Wireless room thermostat	EKRTRB	•	
		External room sensor	EKRTETS(4)	•	
Sensor		Remote outdoor sensor	EKRSCA1(3)	•	•
Other		Thermistor kit for pressurised tanks & 3rd party tank	EKTH3	•	
		Bottom plate heater (dedicated type)	EKBPHT04JH	•	•
		Ball valves	EKBALLV1	•	•
		Add-on: pump	EKADDONJH		•
		Add-on: cable + 2 non-return valves	EKADDONJH2		•
		PC USB cable	EKPCCAB(4)	•	
		Connection kit for 3rd party tank	EKHY3PART	•	
		Connection kit for pressureless tank	EKEPHYHT35H	•	
		Freeze protection valve for field piping	AFVALVEHY2	•	•

(2) Compatible with EKRUHML user interface.
(3) Only 1 sensor can be connected: indoor OR outdoor sensor.
(4) Can only be used in combination with the wireless room thermostat EKRTRB.

Options - boiler

Accessory		Sales region	Material name	 EHY2KOMB28AA	 EHY2KOMB32AA
Boiler options		IT, ES, CZ, GR, PL, PT	EKFJM1A	•	
		IT, ES, CZ, GR, PL, PT	EKFJL1A		•
		FR, BE	EKFJM2A	•	
		FR, BE	EKFJL2A		•
		DE	EKFJM6A	•	
		DE	EKFJL6A		•
		IT, ES, CZ, GR, PL, PT	EKVK4A	•	•
		DE	EKVK6A	•	•
Filling loop set		All	EKFL1A	•	•
Solar water heater connection set (cable + probe sensor)		All	EKSH1A	•	•
Concentric connection Ø 80/125		All	EKHY090717	•	•
Eccentric connection Ø 80		All	EKHY090707	•	•
Dongle set (wireless connection from PC to boiler)		All	EKDS1A	•	•
Cover plates		All	EKCP1A	•	•
		All	EKHY093467(1)	•	•
Propane sets (G31)		All	EKHY075787		•
		All	EKPS075867	•	
Conversion kits (G25)		DE, BE, FR	EKPS076217	•	
		DE, BE, FR	EKPS076227		•

(1) Cannot be used in combination with B-packs.

	Type	Material name
Flue gas connections	Adapter Flex-Fixed PP 100	EKFGP6316
	Adapter Flex-Fixed PP 130	EKFGS0252
	Chimney Connection 60/100	EKFGP4678
	Chimney Connection 60/100	EKFGP4678
	Chimney Connection 80/125	EKFGP4828
	Chimney Connection 60/10 Air Intake Dn. 80 C83	EKFGV1101
	Chimney Top PP 100 incl. Flue Pipe	EKFGP5497
	Chimney Top PP 130 incl. Flue Pipe	EKFGP5197
	Concentric connection Ø 80/125	EKHY090717
	Connector Flex-Flex PP 100	EKFGP6325
	Connector Flex-Flex PP 130	EKFGP6366
	Connector Flex-Flex PP 80	EKFGP6324
	Connection set 60/10-60 Flue/Air intake Dn. 80 C53	EKFGV1102
	Eccentric connection Ø 80	EKHY090707
	Elbow PP/ALU 80/125 90°	EKFGP4810
	Elbow PP/GLV 60/100 30°	EKFGP4664
	Elbow PP/GLV 60/100 45°	EKFGP4661
	Elbow PP/GLV 60/100 90°	EKFGP4660
	Elbow PP/GLV 80/125 30°	EKFGP4814
	Elbow PP MB-AIR 80 90°	EKFGW4085
	Elbow PP BM-AIR 80 45°	EKFGW4086
	Extension Flex PP 100 l=10 M	EKFGP6346
	Extension Flex PP 100 l=15 M	EKFGP6349
	Extension Flex PP 100 l=25 M	EKFGP6347
	Extension Flex PP 130 l=30 M	EKFGS0250
	Extension Flex PP 80 l=10 M	EKFGP6340
	Extension Flex PP 80 l=15 M	EKFGP6344
	Extension Flex PP 80 l=25 M	EKFGP6341
	Extension Flex PP 80 l=50 M	EKFGP6342
	Extension PP 60 x 500	EKFGP5461
	Extension PP/GLV 60/100 x 1,000 mm	EKFGP4652
	Extension PP/GLV 60/100 x 500 mm	EKFGP4651
	Extension PP/GLV 80/125 x 10,000 mm	EKFGP4802
	Extension PP/GLV 80/125 x 500 mm	EKFGP4801
	Extension P BM-Air 80 x 500	EKFGW4001
	Extension P BM-Air 80 x 1,000	EKFGW4002
	Extension P BM-Air 80 x 2,000	EKFGW4004
	Filling loop set	EKFL1AA
	Flex 100-60 + Support Elbow	EKFGP6354
	Flex 130-60 + Support Elbow	EKFGS0257
	Flex Kit PP Dn.60-80	EKFGP1856
	Flex Kit PP Dn.8	EKFGP2520
	Flue Deflector 60 (UK Only)	EKFGP1295
	Flue gas non-return flap	EKFGF1A
	Gas conversion kit from G20 to G25	EKPS076227

	Type	Material name
Flue gas connections	Inspection Elbow Plus PP/ALU 80/125 90° EPDM	EKFGP4820
	Meas. Tee with Inspection Panel PP/GLV 60/100	EKFGP4667
	Plume Managment Kit 60 (UK Only)	EKFGP1294
	PMK Elbow 60 45° (2 pcs) (UK Only)	EKFGP1285
	PMK Elbow 60 90 (UK Only)	EKFGP1284
	PMK Extension 60 l=1,000 incl. breaket (UK Only)	EKFGP1286
	Roof Terminal PP/GLV 60/100 AR460	EKFGP6837
	Roof Terminal PP/GLV 80/125 AR300 Ral-9011	EKFGP6864
	Spacer PP 80-100	EKFGP6333
	Support Breaket Top Inox Dn.100	EKFGP6337
	Support Breaket Top Inox Dn.130	EKFGP6353
	Tee Flex 100 Boiler Connection set 1	EKFGP6368
	Tee Flex 130 Boiler Connection set 1	EKFGP6215
	Thermistor recirculator	EK TH2
	Wall Bracket Dn.100	EKFGP4481
	Wall Bracket Dn.100	EKFGP4631
	Wall Terminal Kit low profile PP/GLV 60/100	EKFGP1293
	Wall Terminal Kit low profile PP/GLV 60/100	EKFGP297 7
	Wall Terminal Kit PP/GLV 60/100	EKFGP2978
	Wall Terminal Kit PP/GLV 60/100	EKFGP1292
	Wall Terminal Kit PP/GLV 80/125	EKFGW6359
	Wall Terminal Kit low profile PP/GLV 60/100 (UK only)	EKFGP1299
	Weather Slate Flat Alu 60/100	EKFGP6940
	Weather Slate Flat Alu 60/100 0°-15°	EKFGP1296
	Weather Slate Flat Alu 80/125	EKFGW5333
	Weather Slate Flat Alu 80/125 0°-15°	EKFGP1297
	Weather Slate Steep Pb/GLV 60/100 18°-22°	EKFGS0518
	Weather Slate Steep Pb/GLV 60/100 23°-27°	EKFGS0519
	Weather Slate Steep Pb/GLV 60/100 43°-47°	EKFGS0523
	Weather Slate Steep Pb/GLV 60/100 48°-52°	EKFGS0524
	Weather Slate Steep Pb/GLV 60/100 53°-57°	EKFGS0525
	Weather Slate Steep Pb/GLV 80/125 18°-22°	EKFGT6300
	Weather Slate Steep Pb/GLV 80/125 23°-27°	EKFGT6301
	Weather Slate Steep Pb/GLV 80/125 43°-47°	EKFGT6305
	Weather Slate Steep Pb/GLV 80/125 48°-52°	EKFGT6306
	Weather Slate Steep Pb/GLV 80/125 53°-57°	EKFGT6307
	Weather Slate Steep PF 60/100 25°-45°	EKFGP7910
	Weather Slate Steep PF 80/125 25°-45° Ral-9011	EKFGP7909
	Elbow PP 60/100 90° + MP Generic	DR90ELBO60100AA
	Wall term Mugro STD 60/100 Telescopic	DRWTERT60100AA

Boilers

- Condensing boilers 244
- Gas condensing boilers 246
  - Daikin Altherma 3 C Gas (D2C/TND*) 246
  - Daikin Altherma 3 C Gas (D2CNL) 252
  - Daikin Altherma C Gas W 254
- Flue-gas evacuation system 256







Condensing boilers

Why choose a condensing boiler?

Daikin's gas or oil condensing boilers are the best option for individual that plan to replace an existing boiler with a more energy efficient and cost-saving alternative. Our wall mounted boilers provide end users with reliable performance and efficient heating and hot water.

Condensing technology

Premix Technology incorporates a modulation fan to perfectly combine combustion air and fuel before it reaches the burner (air/gas mixer), to ensure a high efficiency combustion.

With the combustion of 1 m^3 natural gas, 1.7 kg of water vapour is released in the flue gas as latent heat. Instead of being disposed through the flue, the water vapour containing latent heat is then recirculated, and subsequently reheated by a uniquely designed exchanger.

Condensation forms as a result of the water vapour being cooled to a temperature just below dew point, and subsequently drained via a siphon. The condensing technology uses optimum fuel efficiency, with reduced emissions of NOx and CO, to ensure high cost savings and environmentally-friendly operation.





☑ Comfort

Daikin's gas condensing boilers deliver the ultimate in comfort. Optimal heating ensures seamless operation to deliver reliable year-round heating, even in extreme weather conditions. Instant hot water is possible with our combi range, but also possible with a separate thermal store featuring the ECH_2O tank.

☑ Energy efficiency

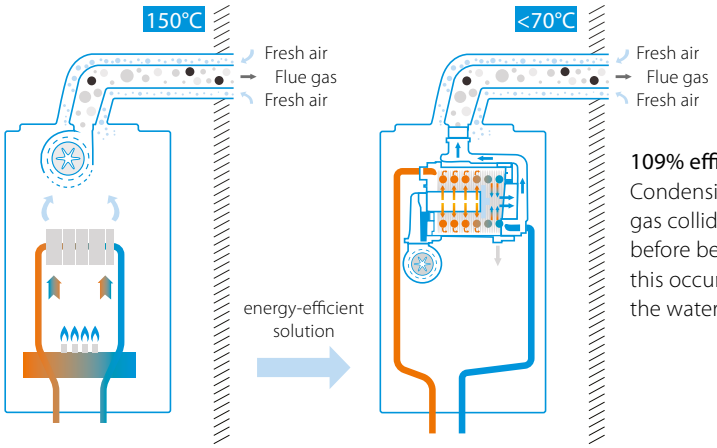
Condensing technology
Using latent heat in the flue gas, our condensing technology achieves 109% more energy efficiency by using renewable energy to produce hot water.

☑ Flexibility

Easy installation and service
All parts are accessible from the front and are low maintenance. The flue gas installation can be adapted to all kinds of configuration thanks to its flexibility.

Energy waste

93% efficiency
Conventional combi boilers: Water vapour is discharged through the flue in vaporising phase and latent heat within the water vapour is ignored.



109% efficiency
Condensing combi boilers: the flue gas collides with influent water before being discharged. Due to this occurrence, latent heat within the water vapour is then released.

Daikin Altherma 3 C Gas (D2C/TND*)

Wall mounted gas condensing boiler



Why choose the Daikin gas condensing boiler?

Low weight
27 kg

Connectivity/Cloud Service
Always in control, no matter where you are.

Easy installation and service
All parts are accessible from the front. The gas-adaptive combustion system (Lambda Gx) means lower maintenance and installation time in a minimalist space. The Lambda Gx is compatible with wall mounted and floor standing units.

Solar thermal connection
Usable in combination with solar thermal store (renewable energy)
- Combi boiler: solar preheating
- Heating only boiler: solar controller input



Most compact

12, 18, 24 kW:	400 x 255 x 580 mm
28, 35 kW:	450 x 288 x 666 mm

Flexible in use
Thanks to IPX5D standard and its compact dimensions, it's possible to install in nearly all room conditions, such as kitchen cupboards, bathroom, utility room, heating room, balcony (in-wall kit).

Modulation 1:8
Capacity adapts to required heat of 4 to 28 kW and 5 to 35 kW.

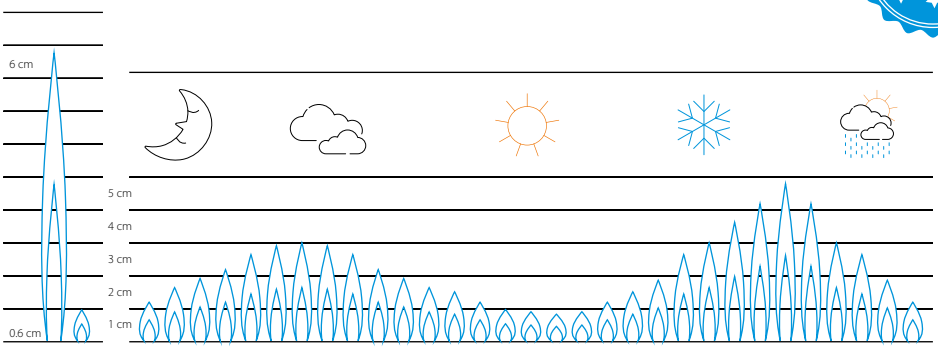
Daikin eye
Monitor the operating status of your combi boiler with the Daikin Eye.

Unique interface
- Stylish interface appeals to all end-users
- State-of-the-art technology meets user-friendly design
- The side details and convex front panel deliver an integrated view

☑ High modulation rate



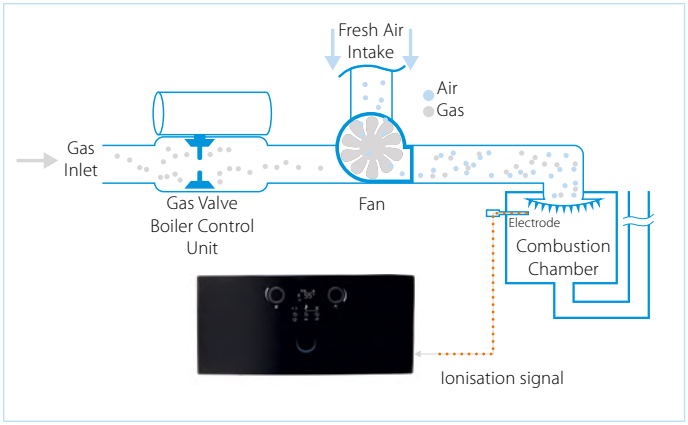
The opportunity to adjust the burner power ensures the seamless and continuous operation of the device. Smooth functioning of the system means increased comfort, a low risk for system failure and the ability to neutralise harmful substance emissions that may occur during ignition. Modulation is also automatically provided by the electronic control.





Lambda Gx: automatic gas adaptation system

With the Lambda GX, the correct combination of air and gas is regulated to achieve efficient combustion, which leads to higher cost savings and less installation and adjustment effort. With Lambda Gx, you have the advantage that you need no other parts like a gas cover to change from natural gas (NG) to liquid gas (LPG).



Daikin Eye

You can monitor the operating status of your combi boiler with the Daikin Eye.

Blue
When the Daikin Eye indicates a blue colour, it means the boiler is functioning properly. The Daikin Eye will flash on and off when it's running on stand by mode.

Red
When the Daikin Eye indicates a red colour, it means the boiler is out of commission and requires a maintenance check.

Product features

Flue Adapter 60/100
- Factory mounted
- Compatible with top adapters/elbows of different flue gas manufacturers
- With measurement holes for air and flue gas

Heat Exchanger
- Daikin design
- Material: Aluminium
- Modulation:
  12-18-24 kW (1:4 - 1:6 - 1:8)
  28-35 kW (1:4 - 1:7)

Expansion Vessel
- Integrated
- 12-18-24 kW: 8 liters
  28-35 kW: 10 liters

Gas Valve
- Less maintenance needed
- Automatic gas adaptive system
- No additional parts/tools for changing from NG to LPG

Domestic Hot Water Plate Heat Exchanger
- Increased number of plates to provide faster hot water production at high efficiency including warm start function.

Pump & Return Hydroblock
- Includes filter and flow restrictor
- Air vent, drain tap and Internal bypass
- Low energy pump

Fan
- Wide modulation range
- Low noise

☑ Small gas condensing combi boiler

Heating only: 12-18 kW
Combi: 24 kW

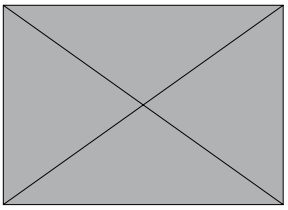
Combi: 28-35 kW

Occupies only
0.06 m³

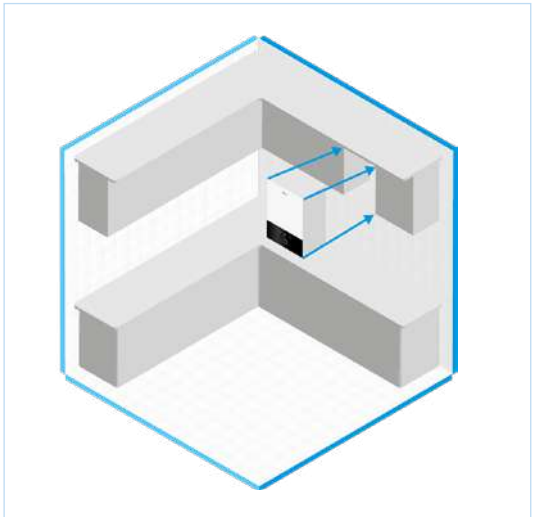




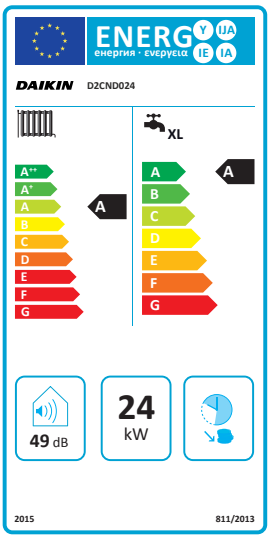
DESIGN AWARD 2018



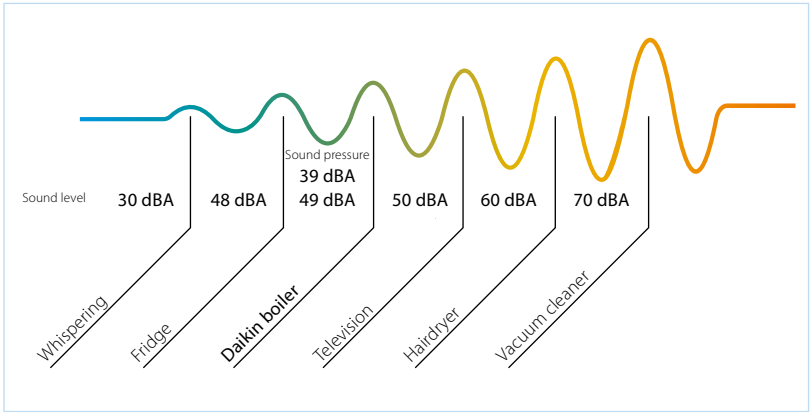
Easy installation & maintenance
The small and lightweight combi boiler guarantees fast installation, minimal maintenance and a flexible system to adapt to various rooms.



High energy class
Energy Class A adheres to European ERP Standards.



Silence
Sound power: 49 db(A): The sound power is the sound level heard when you are close to the unit. The sound level is similar to a dishwasher operating in an adjacent room.
Sound Pressure: 39 db(A): The sound pressure is the sound level heard when you are standing 1 meter from the unit. The sound level is akin to the quiet environment of a library.



☑ Best for your home with compact dimensions



Capacity
T-Model: 12-18-24-28-35 kW.
C-Model: 24-28-35 kW.



Modulation
The device can drop down to 3 kW with a modulation ratio of 1:8. This ensures minimal energy is consumed during start/stop operations.



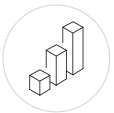
Full condensation
Latent heat from the flue gas is obtained and added to the system, leading to both increased efficiency and energy savings.



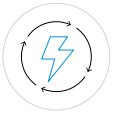
Comfort mode
The DK combi boiler is designed to provide optimal comfort levels.



Electrical Protection
Safe combi boiler with a protection class of IP5D.



Efficiency
Achieves up to 109% efficiency with full condensation.



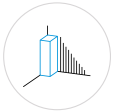
Frequency controlled pump
The frequency control monitors power consumption to boost efficiency and save energy.



Quiet
Delivers a very low sound level that reflects the new EU standards.



Thermo regulation
The device runs the system based on data obtained from the outside temperature sensor and room thermostat.



Compact size
Measuring only 0.06 m^3, this slim, state-of-the-art design combines power with aesthetics.



High energy class
Efficiency class according to EU Ecodesign Lot1 (A).



Lambda Gx system
Superior combustion technology delivers unparalleled efficiency and energy savings.



Premix combustion
Achieves an efficient combustion process by creating the perfect combination of air and gas before it reaches the burner.



Lcd display
Eye-catching and user-friendly design.



Double heat exchanger
The device uses a Daikin-specific main exchanger equipped with in-house technology and a stainless steel domestic water exchanger.



Easy maintenance
Details in design allows for easy maintenance.



Onecta App
Control your indoor unit from any location via app (optional LAN adapter).

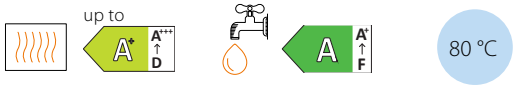
Daikin Altherma 3 C Gas

Supremely compact gas condensing boiler **providing heating and hot water**

- Very compact unit and flexible in use: possible to install in nearly all room conditions (inside the house as well as outside) thanks to freeze protection for water piping
- Easy to service: all parts are accessible by only removing the front panel
- High heating efficiency up to 109%
- High modulating range 1:8: the capacity is adapted based on the required heat load of the house from 3 to 24 kW and 5 to 35 kW
- Combine it with solar heating for even better energy efficiency
- C-model: The combi model means that the boiler has a plate heat exchanger to provide instant domestic hot water
- T-model (tank): The tank model means that the boiler does not have a plate heat exchanger. Domestic hot water is provided by an external storage tank heated by the boiler
- A1 model means that the filling loop is internal
- A4 model means that the filling loop is external



D2CND



80 °C

D2CND-A1A D2CND-A4A D2TND-A4A

Indoor unit					D2	TND012A4A	TND018A4A	TND024A4A	TND028A4A	TND035A4A	CND024A1A	CND028A4A	CND035A1A
Central heating	Heat input Qn (net calorific value)	Nom	Min/Max		kW	2.90/11.20	2.90/17	2.90/23.50	4.80/27	4.80/34	2.90/23.5	4.80/27	4.80/34
	Heat input Qn (gross calorific value)	Nom	Min/Max		kW	3.20/12.40	3.20/18.90	3.20/26.10	5.30/30	5.30/37.80	3.20/26.10	5.30/30	5.30/37.80
	Output Pn at 80/60 °C	Min/Nom			kW	2.80/10.90	2.80/16.60	2.80/22.80	4.60/26.30	4.60/33.20	2.80/22.80	4.60/26.30	4.60/33.20
	Output Pnc at 50/30 °C	Min/Nom			kW	3.10/12	3.10/18	3.10/24	5.20/28.20	5.20/35	3.10/24	5.20/28.20	5.20/35
	Water pressure (PMS)	Max			bar	3							
	Water temperature	Max			°C	100							
	Efficiency	Net calorific value			%	98.60	98.20	97.90	98.20		97.90	-	-
	Operation range	Min/Max			°C	30/80							
	Piping connections					19 (3/4") Male							
Domestic hot water	Heat input (net calorific value) Qnw	Nom	Min/Max		kW	2.90/11.20	2.90/17	2.90/23.50	4.80/29.50	4.80/34	2.90/23.50	4.80/29.50	4.80/34
	Heat input (gross calorific value) Qnw	Nom	Min/Max		kW	3.20/12.40	3.20/18.10	3.20/26.10	5.30/32.70	5.30/37.70	3.20/26.10	5.30/32.70	5.30/37.70
	Domestic hot water threshold				L/min	-			2.50		2		
	Temperature	Factory setting			°C	50							
	Operation range	Min/Max			°C	35/60							
Gas	Gas connection diameter				mm	19 (3/4") Male							
	Consumption (G20)	Min/Max			m^3/h	0.31/1.18	0.31/1.80	0.31/2.48	0.511/2.89	0.511/3.63	0.31/2.48	0.511/2.89	0.511/3.63
	Consumption (G25)	Min/Max			m^3/h	0.36/1.38	0.36/2.09	0.36/2.89	0.59/3.32	0.59/4.19	0.36/2.89	0.59/3.32	0.59/4.19
	Consumption (G31)	Min/Max			m^3/h	0.12/0.46	0.12/0.69		0.20/1.10	0.20/1.38	0.12/0.96	0.20/1.10	0.20/1.38
Supply air	Connection				mm	100							
	Concentric					Yes							
Flue gas	Connection				mm	60							
Space heating	General	ηs (Seasonal space heating efficiency)			%	93							
		Seasonal space heating eff. class				A							
Domestic hot water heating	General	Declared load profile				-					XL		
		ηwh (water heating efficiency)			%	-					84		83
		Water heating energy efficiency class				-					A		
Casing	Colour					Titanium White (RAL9003)							
	Material					Sheet metal			Powder painted galvanised steel plate		Sheet metal	Powder painted galvanised steel plate	
Dimensions	Unit	HeightxWidthxDepth	Casing		mm	590x400x256			690x440x295		590x400x256	690x440x295	
Weight	Unit	Empty			kg	27			36		27	37	
Power supply	Phase/Frequency/Voltage				Hz/V	1~/50/230			1~/50/230			1~/50/230	
Electrical power consumption	Max.				W	86			92	112	86	92	112
	Standby				W	3.50			2.70		3.50	2.70	

Options

Category		Description	Material Nr
Controllers		Outdoor sensor	150042
		Solar Temperature Sensor	DRSLRTESENSAA
		Daikin OT+ room thermostat	DOTROOMTHEAA
		Communication gateway	DRGATEWAYAA
System control - Cascade		Cascade Controller (E8.5064 V1)	DRCASCACONTAA
		Zone Controller (E8.1124)	DRZONECCONTAA
		CoCo OT-CAN Adapter	DRCOCOADPTRAA
		Lago CAN BUS room thermostat	DRCBROOMTHEAA
		Flow temperature sensor (Cascade)	DRFLWTESENSAA
		Outdoor temperature sensor (Cascade)	DRODRTESENSAA
		Storage Tank Temperature Sensor (Cascade)	DRSTKTESENSAA
Flue gas		Connector Elbow PP 60/100 + MP(0 mm)	DRMEEA60100BA
		Twin Box Adapter 80/80 + MP(0 mm)	DRDECOP8080BA
		Vert. Conn. 60/100-80/125 + MP(0 mm)	DRDECO80125BA
Mechanical		Cover plate (12-18-24 kW)	DRCOVERPLATAA
		Cover plate (28-35 kW)	DRCOVERPLA2AA
		Antifreezing set	DRANTIFREEZAB
Valve kit		Valve Kit C1 - 90° valves	DRVALVEKIC1AA
		Valve Kit C2 - 90° valves	DRVALVEKIC2AA
		Valve Kit T1 - 90° valves	DRVALVEKIT1AA
		Valve Kit T2 - 90° valves	DRVALVEKIT2AA
Pump Groups & Other		Seperator for mud and magnetit	SAS1 156021
		Seperator for mud and magnetit	IT.DEFANG-TP
		Seperator for mud and magnetit	IT-DEFANG-OT
		Unmixed Pump Group	DRUPUMPGRUPAA
		Mixed Pump Group	DRMPUMPGURPAA
For service		Service box	DRSERVCBOX1AA - 5020177



Daikin Altherma 3 C Gas (D2CNL)

Base model - Wall mounted gas condensing boiler

The new gas condensing boiler D2CNL-A1A integrates what is essential: neat design, ease of use and installation to provide heating and hot water.

Neat design

The product enjoys the black and white design DNA introduced with the third generation of Daikin Altherma products. Its dimensions and weight make it one of the most compact product of its category.



All-in-one comfort

The product provides space heating and instantaneous domestic hot water without tank, both with an A energy label.





As simple as A+B

The product is really simple to control via its interface. It is also very easy to install and service since all parts are available from the front.

Daikin Altherma 3 C Gas

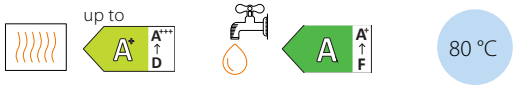
Supremely compact gas condensing wall mounted boiler **providing heating and hot water**

- Easy to service: all parts are accessible by only removing the front panel
- Very compact unit and flexible in use: possible to install in nearly all room conditions (inside the house as well as outside) thanks to freeze protection for water piping



D2CNL-A1A

D2CNL-A1A



Indoor unit					D2	CNL024A1A
Central heating	Heat input Qn (net calorific value)	Nom	Min/Max	kW		4/23.50
	Heat input Qn (gross calorific value)	Nom	Min/Max	kW		4.40/26.10
	Output Pn at 80/60°C	Min/Nom		kW		3.80/22.80
	Output Pnc at 50/30°C	Min/Nom		kW		4.40/24
	Water pressure (PMS)	Max		bar		3
	Water temperature	Max		°C		100
	Operation range	Min/Max		°C		30/80
Domestic hot water	Heat input (net calorific value) Qnw	Nom	Min/Max	kW		4/25.50
	Heat input (gross calorific value) Qnw	Nom	Min/Max	kW		4.40/28.30
	Domestic hot water threshold			L/min		2.30
	Temperature	Factory setting		°C		50
	Operation range	Min/Max		°C		35/60
Gas	Consumption (G20)	Min/Max		m^3/h		0.40/2.50
Supply air	Connection			mm		100
	Concentric					Yes
Flue gas	Connection			mm		60
Space heating	General	Seasonal space heating efficiency class				A
		ηs (Seasonal space heating efficiency)		%		93
Domestic hot water heating	General	Declared load profile				XL
		Water heating energy efficiency class				A
		ηwh (water heating efficiency		%		87
Casing	Colour					Titanium White (Ral9003)
	Material					Powder painted galvanised steel plate
Dimensions	Unit	HxWxD	Casing	mm		590x400x256
Weight	Unit	Empty		kg		27
Power supply	Phase/Frequency/Voltage			Hz/V		1~/50/230
Electrical power consumption	Max.			W		100
	Standby			W		3

Category		Description	Material Nr
Valve Kit		Valve Kit for Combi Boiler	DRVALVEKIC1AA
Wall Rack		Wall Rack for small boilers	DRWALLRACK1AA
Cover Plate		Bottom cover plate	DRCOVERPLATAA
Flue Gas		Connector Elbow PP 60/100	DRMEEA60100BA
		Twin Box Adapter 80/80	DRDECOP8080BA
		Vert. Conn. 60/100-80/125	DRDECO80125BA

Daikin Altherma C Gas W

High efficiency gas condensing boiler
for heating and hot water

- High efficiency gas condensing boiler
- Top efficiency gas condensing boiler thanks to labyrinth fin heat exhanger for improved heat exchange
- Low running costs for both heating and hot water thanks to new dual heat exchanger
- Maximum heating comfort and domestic hot water when it is most needed
- Quick, easy and compact installation thanks to our optional pre-assembled B-pack, containing all auxiliary components

EHOBG-A EKOMBG-A EKOMB-AH



EKOMB-AH

up to A+++ ↑ D

A A+ ↑ F

90 °C

Indoor unit					EHOB	G12A	G18A
Central heating	Heat input Qn (net calorific value)	Nom	Min/Max	kW		3.80/12.50	5.60/18.70
	Heat input Qn (gross calorific value)	Nom	Min/Max	kW		4.20/13.90	6.20/20.80
	Output Pn at 80/60 °C	Min/Nom		kW		-/12.20	-/18.20
	Output Pnc at 50/30 °C	Min/Nom		kW		-/-	
	Water pressure (PMS)	Max		bar		3	
	Water temperature	Max		°C		90	
	Operation range	Min/Max		°C		30/90	
Gas	Connection	Diameter		mm		15	
	Consumption (G20)	Min/Max		m^3/h		0.36/1.30	0.58/1.94
	Consumption (G25)	Min/Max		m^3/h		0.42/1.50	0.67/2.25
	Consumption (G31)	Min/Max		m^3/h		0.14/0.49	0.22/0.74
Supply air	Concentric					60/100	
Flue gas	Connection			mm		60	
Space heating	General	ηs (Seasonal space heating efficiency)		%		92	
		Seasonal space heating eff. class				A	
Casing	Colour					White - RAL9010	
	Material					Precoated sheet metal	
Dimensions	Unit	HeightxWidthxDepth	Casing	mm		590x450x240	
Weight	Unit	Empty		kg		30	
Power supply	Phase/Frequency/Voltage			Hz/V		1/50/230	
Electrical power consumption	Max.			W		80	
	Standby			W		2	

Indoor unit					EKOMB	22AH	28AH	33AH	G22A	G28A	G33A
Central heating	Heat input Qn (net calorific value)	Nom	Min/Max	kW		5.60/18.70	7.10/23.70	7.20/27.30	5.50/23.30	7.10/29.10	7.60/32.70
	Heat input Qn (gross calorific value)	Nom	Min/Max	kW		6.20/20.80	7.90/26.30	8/30.30	6.10/25.90	7.90/32.30	8.40/36.30
	Output Pn at 80/60 °C	Min/Nom		kW		-/17.80	-/22.80	-/26.30	-/22.70	-/28.40	-/32.10
	Water pressure (PMS)	Max		bar		3					
	Water temperature	Max		°C		90					
Domestic hot water	Heat input (net calorific value) Qnw	Nom	Min/Max	kW		5.60/22.10	7.10/28	7.20/32.70	5.50/23.30	7.10/29.10	7.60/32.70
	Heat input (gross calorific value) Qnw	Nom	Min/Max	kW		6.20/24.60	7.90/31.10	8/36.30	6.10/25.90	7.90/32.30	8.40/36.30
	Domestic hot water threshold			L/min		2			-		2
	Temperature	Factory setting		°C		60					
	Operation range	Min/Max		°C		40/65					
Gas	Connection	Diameter		mm		15					
	Consumption (G20)	Min/Max		m^3/h		0.58/2.29	0.74/2.91	0.75/3.39	0.58/2.42	0.74/3.02	0.79/3.39
	Consumption (G25)	Min/Max		m^3/h		0.67/2.65	0.85/3.26	0.86/3.93	0.62/2.82	0.84/3.46	0.89/3.92
	Consumption (G31)	Min/Max		m^3/h		0.22/0.87	0.28/1.11	0.28/1.29	0.21/0.94	0.29/1.19	0.30/1.29
Supply air	Concentric					60/100					
Flue gas	Connection			mm		60					
Space heating	General	ηs (Seasonal space heating efficiency)		%		91	92	93	91	92	93
		Seasonal space heating eff. class				A					
Domestic hot water heating	General	Declared load profile				L	XL		L	XL	
		ηwh (water heating efficiency)		%		78	81		90	83	84
		Water heating energy efficiency class				A					
Casing	Colour					White - RAL9010					
	Material					Precoated sheet metal					
Dimensions	Unit	HeightxWidthxDepth	Casing	mm		590x450x240	650x450x240	710x450x240	590x450x240	650x450x240	710x450x240
Weight	Unit	Empty		kg		30	33	36	30	33	36
Power supply	Phase/Frequency/Voltage			Hz/V		1~/50/230					
Electrical power consumption	Max.			W		80					
	Standby			W		2					

(1) Setpoint 40 °C (2) Setpoint 60 °C

Options

Type		Material name	Condensing boilers							
			EKOMB*					EHOB*		
			Combi 22kW TOP Grade	Combi 22kW HIGH Grade	Combi 28kW TOP Grade	Combi 28kW HIGH Grade	Combi 33kW	H/O 12kW	H/O 18 kW	H/O 42kW
Controllers	Rf-wlan converter	EKRFLAN1A	•	•	•	•	•	•	•	•
	Dongle set	EKDS1A	•	•	•	•	•	•	•	•
Installation	Cover plate 35	EKCP1A	•	•	•	•	•	•	•	•
	Solar water heater connection set	EKSH1A	•	•	•	•	•	•	•	•
Sensor	Outdoor sensor	EKOSK1A	•	•	•	•	•	•	•	•
Valve	Valve kit (IT, ES, CZ, GR, PL, PT)	EKVK4A	•	•	•	•	•	•	•	•
	Valve kit (DE)	EKVK5A						•	•	
	Valve kit (DE)	EKVK6A	•	•	•	•	•			
	Valve kit 3-way	EK3WV1A	•	•	•	•	•	•	•	•
B-pack	B-pack for combi (IT, ES, CZ, GR, PL, PT)	EKFJS1A	•	•				•	•	
	B-pack for combi (IT, ES, CZ, GR, PL, PT)	EKFJM1A			•	•				
	B-pack for combi (IT, ES, CZ, GR, PL, PT)	EKFJL1A					•			•
	B-pack for combi (FR, BE)	EKFJS2A	•	•						
	B-pack for combi (FR, BE)	EKFJM2A			•	•				
	B-pack for combi (FR, BE)	EKFJL2A					•			•
	B-pack for combi (UK)	EKFJS3A	•	•						
	B-pack for combi (UK)	EKFJM3A			•	•				
	B-pack for combi (UK)	EKFJL3A					•			
	B-pack for combi (DE)	EKFJS4A						•	•	
	B-pack for combi (DE)	EKFJS6A	•	•						
	B-pack for combi (DE)	EKFJM6A			•	•				
	B-pack for combi (DE)	EKFJL6A					•			
Propane set		EKHY075787	•							
		EKPS075867				•	•			•
		EKPS075877	•							
		EKPS075917						•		
Conversion set		EKPS076197						•		
		EKPS076207	•						•	
		EKPS076217		•	•				•	
		EKPS076227		•			•			•
Flue gas	Flue gas non return flap (flue gas cascade)	EKFGF1A	•	•	•	•	•	•	•	•
	Horizontal straight flue terminal (low profile) (UK)	EKFGP1A	•		•		•			
Others	Concentric connection (Ø 80/125)	EKHY090717								
	Eccentric connection (Ø 80)	EKHY090707								
	Adaptor set concentric 60/100	EKAS1A	•	•	•	•	•			

Flue-gas evacuation system

Hybrid heat pump





Daikin Altherma Hybrid

Wall mounted gas condensing boilers



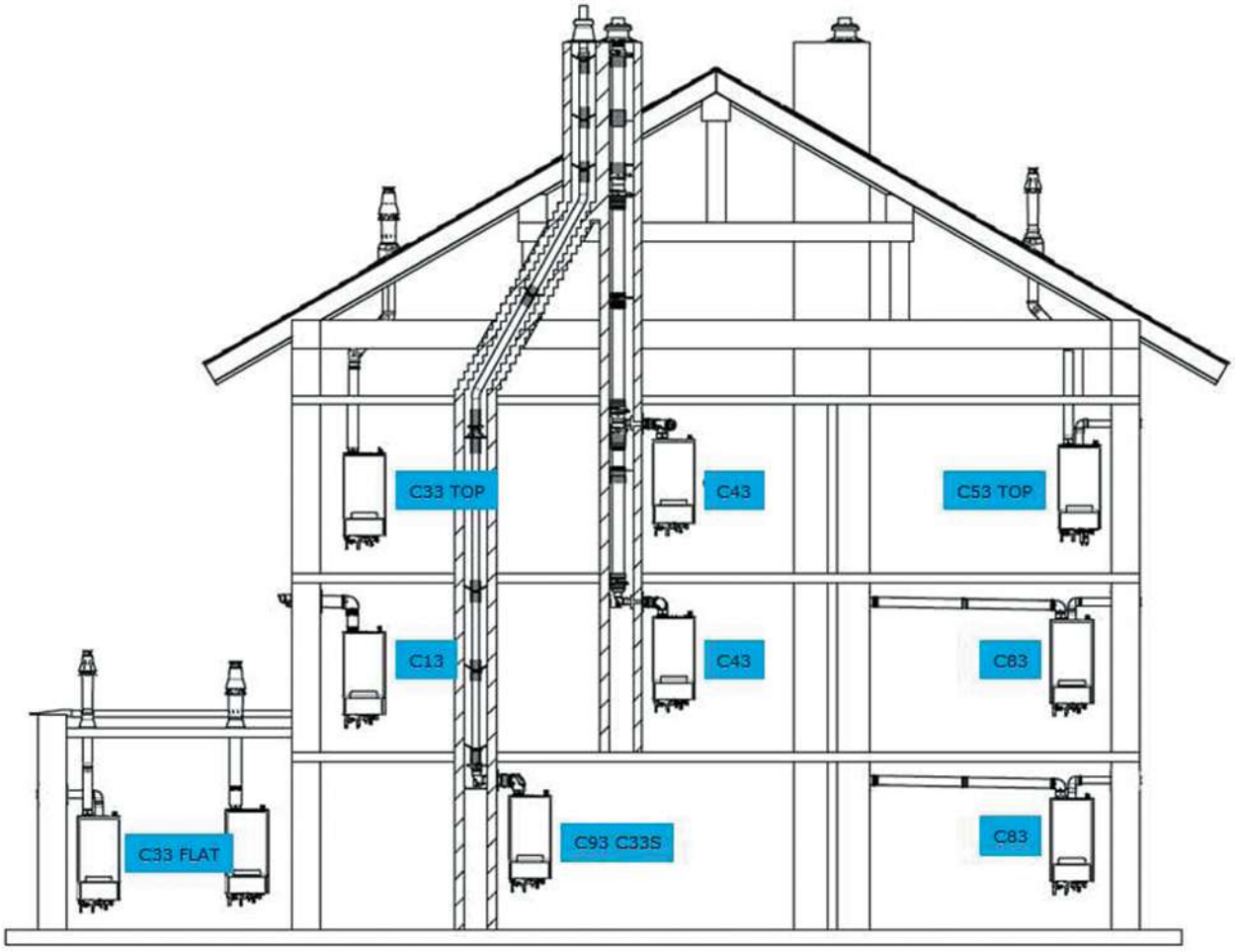
Daikin Altherma C Gas W



Daikin Altherma 3 C Gas W

Overview of Daikin Altherma C Gas W and Daikin Altherma R/H Hybrid

Your guarantee of proper operation, especially in terms of the noise level of our heat generators, depends on the use of our own brand of flue-gas evacuation systems. All our condensing gas- and oil-fired boilers are optimized and adjusted for this use.



1-8 Variants for Daikin Altherma C Gas W and Daikin Altherma R/H Hybrid
CA Air (combustion) inlet
FG Flue gas
RV Ventilation

Bxx Type CEN/TR1749:2009 for operation dependent on ambient air
Cxx Type CEN/TR1749:2009 for suction operation

a Variant for suction connection (flue gas/concentric air inlet)
b Variant for partial suction connection (flue gas/separated air inlet)
c Variant for connection dependent on ambient air
d Ventilated vertical flue ducts with fire-resistance duration of 90 minutes (30 minutes for low-rise buildings). Respect the locally applicable standards!
e Ventilation opening (1 x 150 cm^2 or 2 x 75 cm^2)
f Ventilation (150 cm^2)

- All flue-gas ducts approved for condensing operation can be installed – an adapter may be needed
- Requirements according to EN 14471: Temperature class T 120, pressure class P1, condensate consistence class W, corrosion-resistance class 2

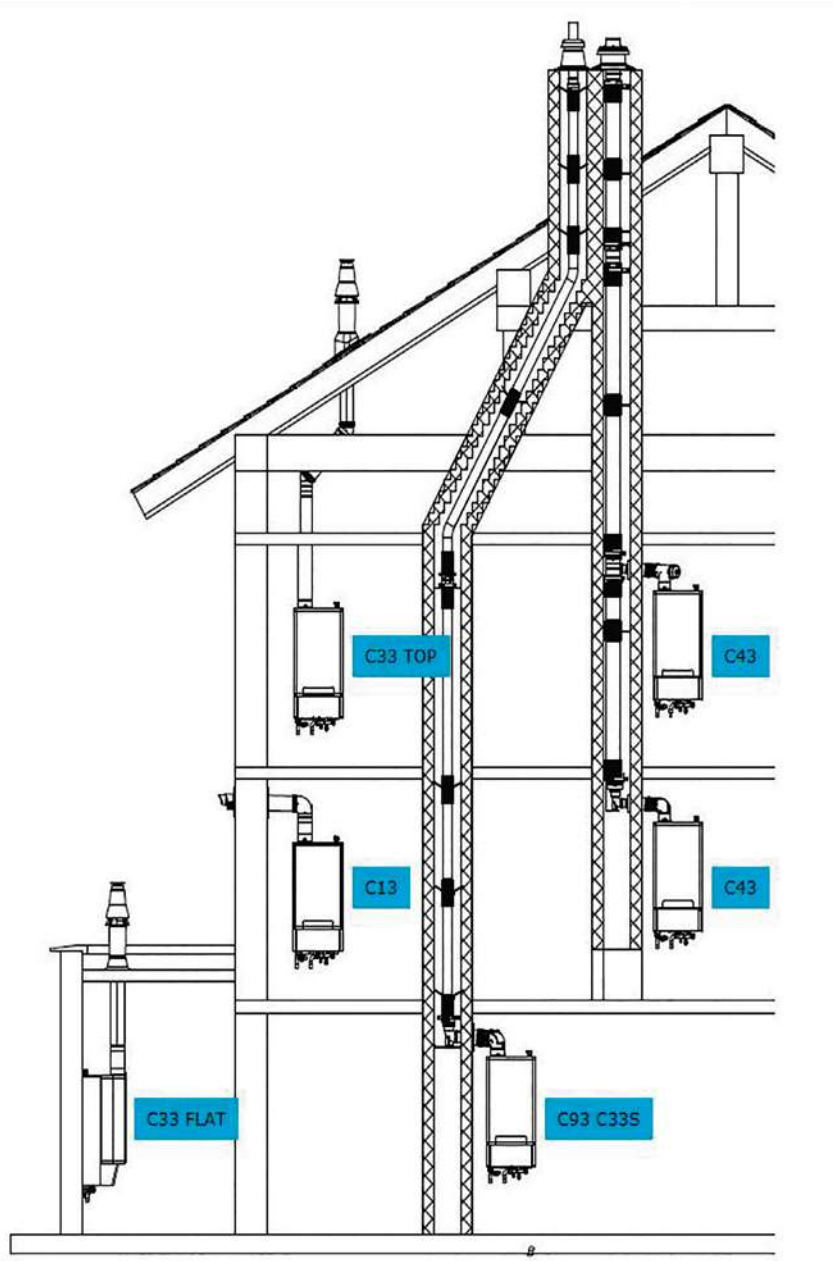


Selection tool

You can determine the optimal solution for your projects using the software for selecting smoke-evacuation accessories.

You can specify suitable flue-gas accessories (obligatory and necessary), depending on the products selected and the installation configurations. You can also opt to make your selection online using our tool at http://fluegas.daikin.eu

Overview of Daikin Altherma C Gas W and Daikin Altherma R/H Hybrid



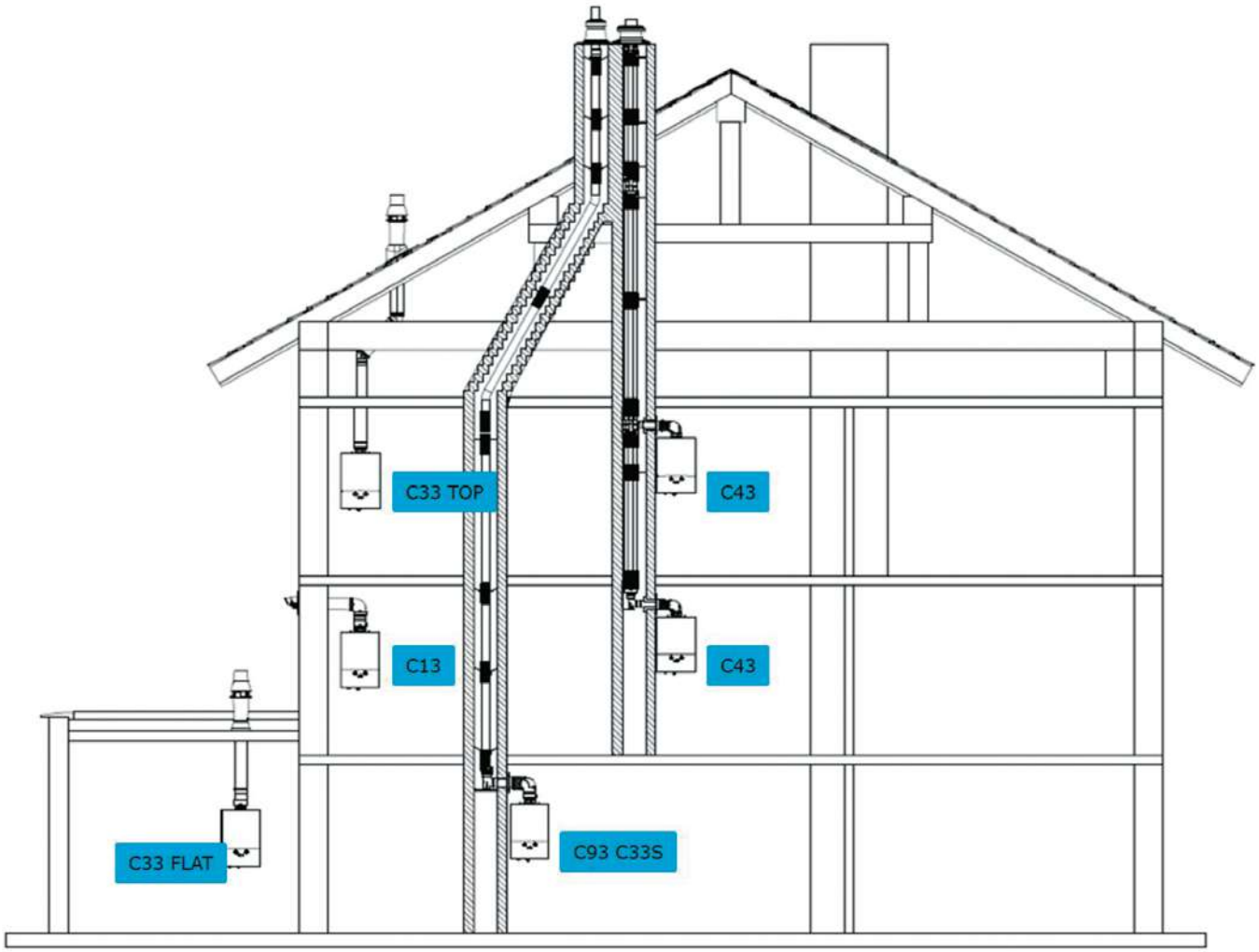


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Overview of Daikin Altherma 3 C Gas W



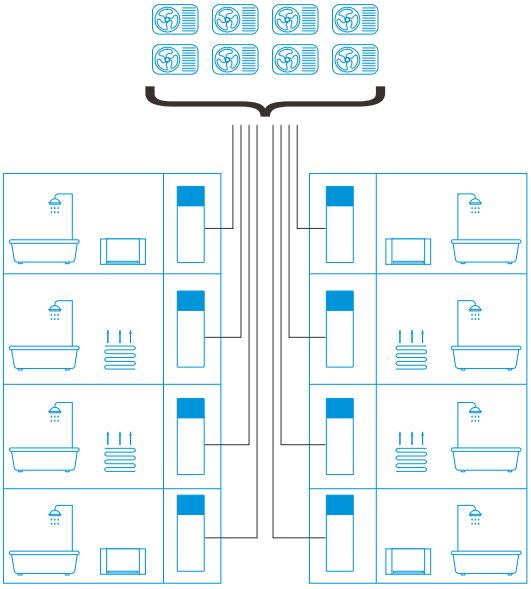


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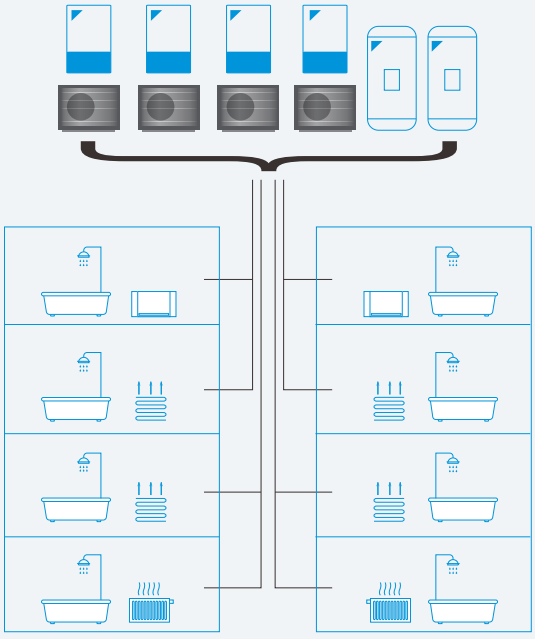


P. 264

Decentralised

Centralised

P. 265



Daikin solutions for collective buildings

Thanks to a wide range of individual heat pumps, Daikin has always been present in collective buildings with decentralised solutions.

With the long lasting Daikin Altherma Flex Type series, a central solution for hot water production is also part of the portfolio.

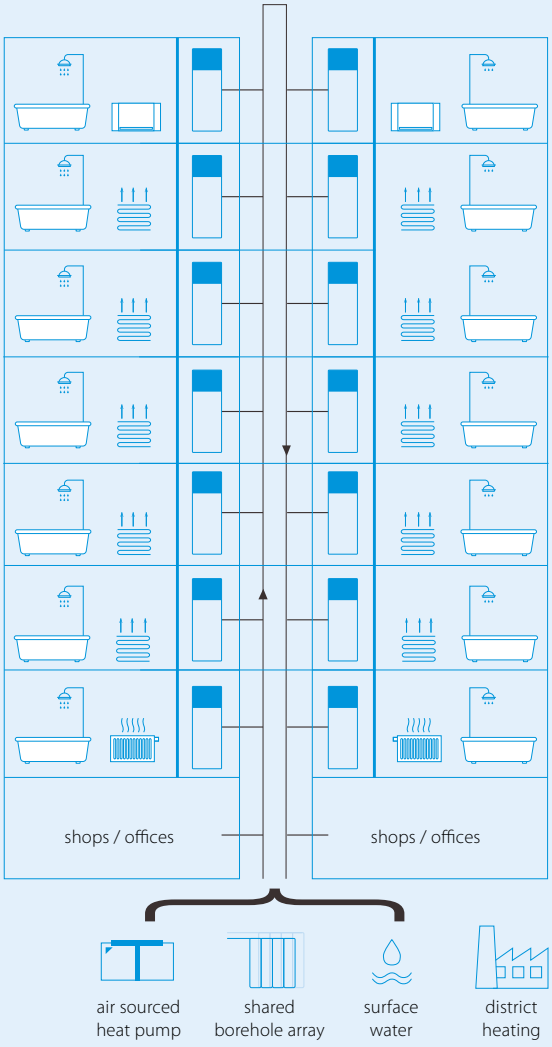
Recently, Daikin Altherma 3 WS was launched: a dedicated water loop solution for high-rise buildings.

In that way, Daikin provides multiple flexible solutions for collective buildings.



Semi-centralised: Water loop

P. 266





Collective solutions

Decentralised solutions	264
Centralised solutions	265
Water loop	266
▪ Daikin Altherma 3 WS	266

Check out our collective solutions on:

https://collectivehousing.daikin.eu/en-GB/high-rise



Decentralised solutions

In a decentralised set-up, each apartment of the building is equipped with an individual heat pump. The end customer has total control over it's system and consumption.
The outdoor unit is often installed on the balcony, or on the roof.

☑ A large choice of Daikin solutions

Thanks to a wide range of heat pumps, Daikin is able to provide multiple solutions decentralised applications in apartments buildings.

In each apartment, an individual product is installed: air-to-water split heat pump, a hybrid heat pump…

It allows the end-user to totally control its energy consumption and answers its needs in the most efficient way, whether it is for space heating, cooling or domestic hot water.

Inside the apartment:
In decentralised solutions, only an indoor unit can be found inside the apartment. Usually installed in a technical or utility room, it takes as much as space as other household appliances such as a washing machine.



Outside the apartment:
The heat pump outdoor unit can be installed in different locations in order to save as much space as possible.

For example, on a balcony:



Or on the roof:





Centralised solutions

Centralised applications integrate a central source of energy for heating and hot water. Cascade solution is a type of centralised system in which one outdoor unit supplies energy to multiple apartments. Each apartment still includes an indoor unit as control center.

☑ Another purpose for Daikin high capacity heat pumps

In a cascade solution, one larger capacity outdoor unit provides energy to multiple apartments. This larger outdoor unit ranges from 11 to 18 kW class, compared to individual heat pumps up to 8 kW. Each outdoor unit is connected to the other in order to form a central source of energy that it suitable for a total of up to 50 kW. Specific rules apply for the installation of such a system.

Applicable units
Daikin Altherma 3 H HT + wall mounted indoor unit
Daikin Altherma 3 R + wall mounted indoor unit
Daikin Altherma 3 M monobloc

Hydrosplit connection
With Daikin Altherma 3 H HT, you only get water connections to install the outdoor and the indoor units.

The unit is available in class 14, 16 and 18 kW and delivers a LWT up to 70°C, fitting with radiators.



Refrigerant connection
Daikin Altherma 3 R refrigerant split unit is available in class 11, 14 and 16 and delivers a LWT under 60°C.

The possibility to run low LWT allows for further energy saving by using underfloor heating or heat pump convectors as heating or cooling emitters.



Monobloc
Daikin Altherma 3 M also runs low LWT under 60°C. The monobloc has the extra advantage to save space inside: indeed no indoor unit is necessary if the domestic hot water tank is installed in the communal space.



Cascade controller
Daikin provides a universal centralised controller for cascade EKKCC9-W to be used in combination with the gateway DCOM-LT/IO.

The DCOM gateway is an interface for the BMS integration. It offers:
- Modbus communication including the compatibility with EKCC9-W for sequencing applications
- Voltage control
- Modbus control



Water loop solution
Daikin Altherma 3 WS

Daikin Altherma 3 WS for Collective Housing provides an innovative approach to reducing the carbon footprint of apartment buildings. Individual heat pumps deliver economical heating, hot water and optional cooling for each apartment connected via a central water loop. So use of renewable energy is optimised and heat losses in distribution are minimised, improving
the environmental performance of the apartment building.

The number of people living in urban areas is continuously increasing in the recent years. Multi-family dwellings in Europe are a good portion of the European building stock. Especially if we consider that, in 2018, 46.0 % of the EU-27 population lived in flats. (*) Therefore, apartment buildings are among the most relevant contributors to the energy consumption and CO_2 emissions of the EU building sector.

As a consequence, the higher demand for living space makes the collective building sector grow in the future cities. Building sector plays a significant role for the energy consumption as it represents 40% of energy used in the EU.
New European Directives are driving the efficiency of modern buildings in order to reach future goals. In this perspective, heat pumps play a key role to achieve these goals not only in single dwellings but also in multi-family apartment buildings.

Daikin, the innovation leader for more than 90 years, takes the challenge in multi-family apartment building to apply full renewable solutions based on in-house heat pump technology. From low to high-rise apartment buildings, from individual to centralised heating systems, from retrofit to new built Daikin has the units, the experience and the solution for you.

(*) https://ec.europa.eu/eurostat/statistics-explained/index.php?title=Living_conditions_in_Europe_-_housing_quality

Efficiency and environmental performance all in one

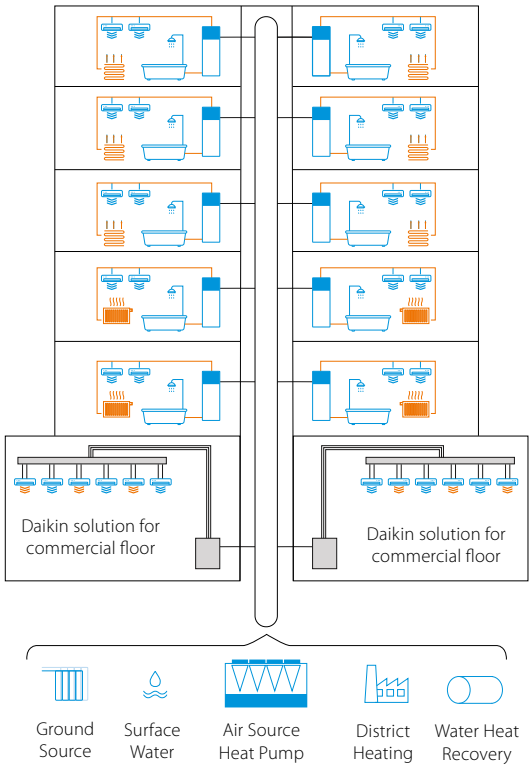
Individual heat pumps connected to a central loop

This innovative system consists of a network of heat pumps connected to a common central water loop. In each apartment is a Daikin Altherma 3 WS unit - a high-efficiency water-to-water heat pump with integrated domestic hot water (DHW) tank.

The heat pump in each apartment works independently, but is connected to a common central water loop to form a communal system. The central water loop must be maintained between +10°C and below +30°C. Thanks to this wide temperature range, the central water loop can be warmed/or cooled via several different means:

- Ground or air source heat pump
- Shared ground array, borehole or thermal piles
- Surface water source such as a river, canal or seawater
- District heat network
- Waste heat recovery

This offers the designer full flexibility to select the most appropriate form of renewable energy available to the site: ground, water or air



Low ambient temperatures for minimal heat loss

This highly efficient heat pump network can provide economical heating, hot water and optional cooling for an entire apartment building at relatively low ambient water temperatures.

Compared with the high distribution losses that occur in typical communal heating systems - which lead to overheated buildings and wasted energy - the low ambient loop means that heat losses are reduced by more than 90%. Hence it is a much more economical solution, that reduces the carbon footprint of the entire building.

Key system advantages:

- Utilises renewable (or recovered) energy
- Low carbon heat pump solution delivers significant CO_2 reductions over traditional systems
- Low carbon solution helps reduce carbon offset payments
- Energy centre not required, saving valuable space
- Heating, hot water & cooling via a 2 pipe network offers capital savings over a traditional 4 pipe solution
- Intuitive user controls and internet connectivity as standard
- In-apartment heat pump has integrated back up heater, so heating & hot water is maintained in any eventuality.
- Simplified connection with water loop thanks to the embedded pressure independent control, for automatic flow from the heat pump
- Pressure rating of 16 bar (water loop side) to simplify installation in high-rise buildings: no need of pressure brakers up to 20 floors

Designed to suit modern living



Optimised for comfort

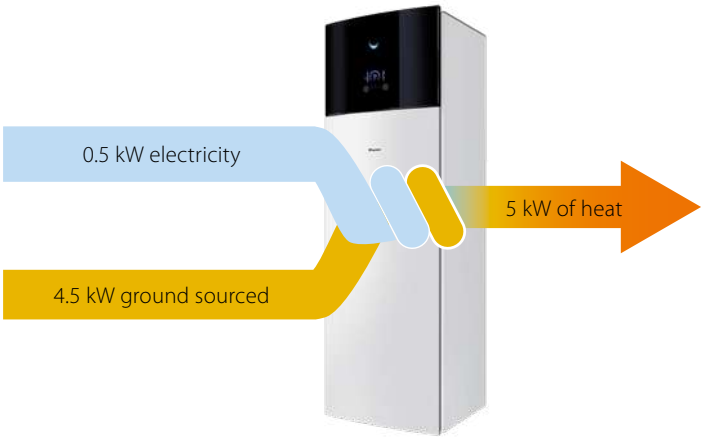
With a leaving water temperature up to 65°C and high efficiencies, the Daikin Altherma 3 WS is designed to ensure the lowest running costs and highest comfort levels for each apartment.

Versatility by design

Daikin Altherma 3 WS is highly versatile and works with various heat emitters, such as radiators, underfloor heating, heat pump convectors or fan coil units for maximum design flexibility.

All in one integrated model

The floor standing indoor unit with integrated DHW tank has a minimal footprint, utilising as little floorspace as possible.



Delivering decarbonisation

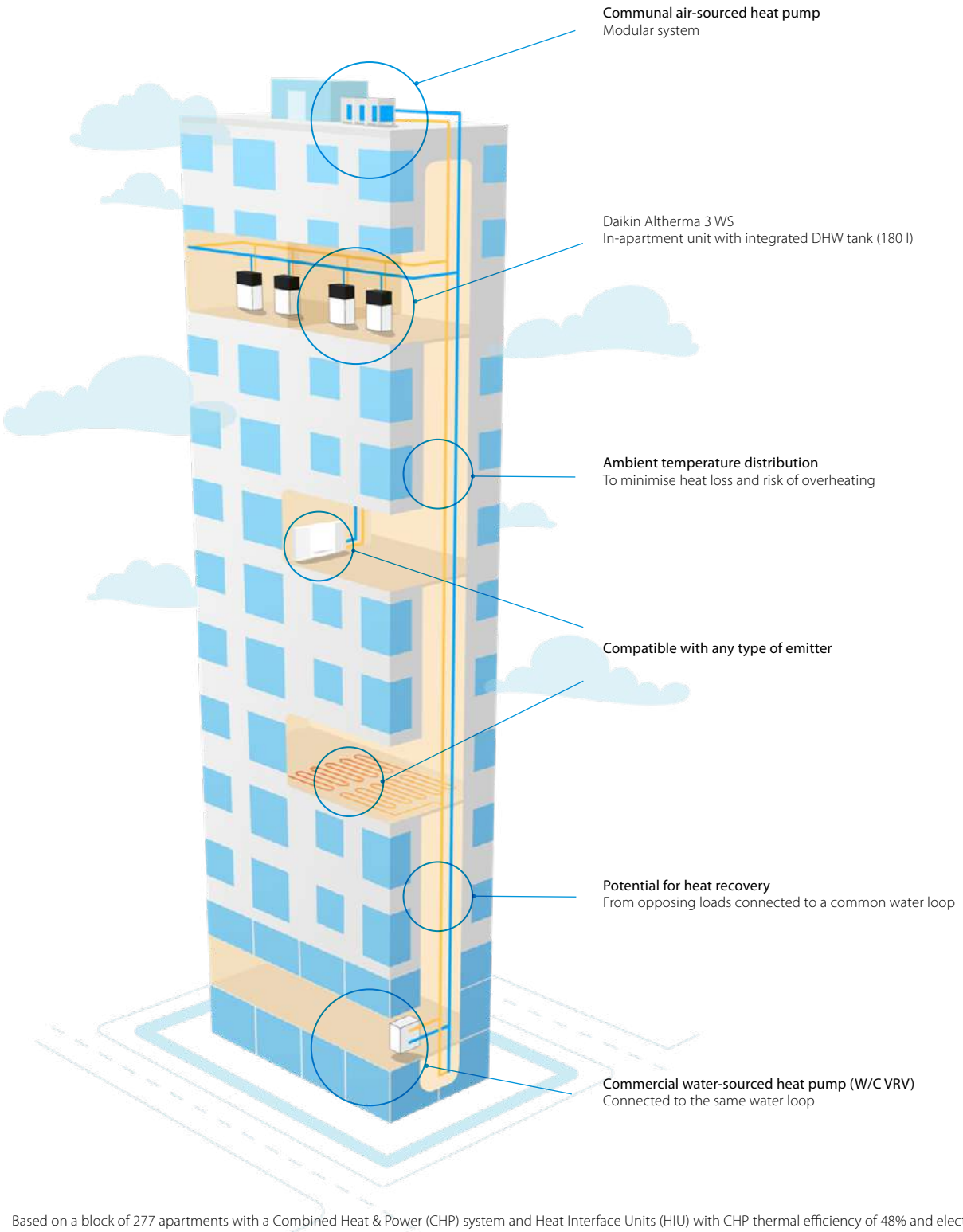
Compared with a typical Combined Heat & Power (CHP) and boiler system often used in apartments, the Daikin Altherma 3 WS system delivers a reduction in carbon emissions of 143 tonnes.1

Reduction in capital costs

With a low temperature water loop connected to a heat pump chiller on the roof or in the plant rooms, plus a Daikin Altherma 3 WS unit in each apartment linked to Daikin heat pump convectors or fan coil units, the total system will deliver lower carbon emissions compared with a typical heating system. This could reduce a developer's carbon offset payments, so delivering a low carbon heating and cooling system makes both excellent environmental and economic sense.

BLUEVOLUTION

Heat pump technology reduces carbon emissions compared with any traditional fossil fuel heating system. But the Daikin Altherma 3 WS goes further to reduce the Global Warming Potential (GWP) of system, as it features Daikin's Bluevolution technology which uses R-32 refrigerant. R-32 has a lower GWP than other refrigerants typically used in heat pump systems - and less refrigerant is required too - so it's more environmentally friendly overall.

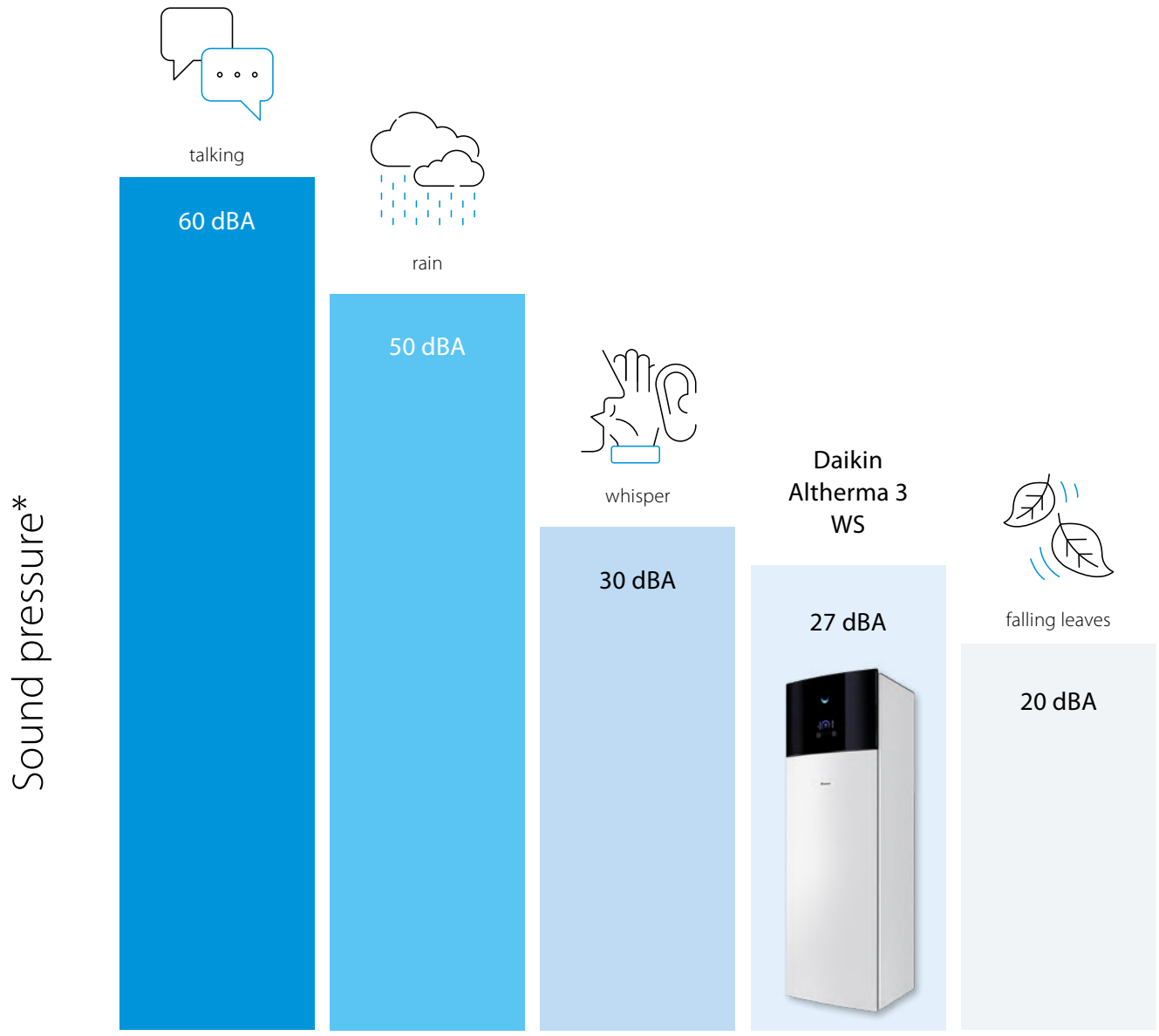


1 Based on a block of 277 apartments with a Combined Heat & Power (CHP) system and Heat Interface Units (HIU) with CHP thermal efficiency of 48% and electrical efficiency of 32%, 60% CHP / 40% boiler, compared with a Heat Pump with a SCOP of 3.7 based on SAP2012

Caring for customers' peace of mind

Daikin Altherma 3 WS promises almost silent operation, thanks to a specially designed swing compressor module, which limits vibrations and is sound insulated, to minimise noise levels.

Exceptionally quiet operation



*at 1 meter.

Daikin offers a range of control options, so residents can enjoy full control of their heating system, anywhere, at any time.

Smart control

Daikin' smart control offers the end user full control of the heating and hot water system, as well as saving money on energy bills, thanks to Daikin's modulating room control logic.

Madoka for heating

Increase end user energy savings even further, with the elegant Madoka controller. Madoka ensures a more stable room temperature, by adjusting the water temperatures depending on room temperature requirement, as well as reducing on/off cycling times.

- ☑ Sleek and elegant design
- ☑ Match any interior scheme
- ☑ Easy to use with intuitive controls



BRC1HHDAW7



BRC1HHDAS7



BRC1HHDAK7

Onecta app

The Onecta app is a smart phone app that allows end users to monitor and control their heating system, whenever and wherever they wish.



- Monitor the status of your heating system
- Control the operation mode and set temperature
- Schedule the set temperature and operation mode



Quick and easy installation

Each apartment unit consists of a sealed R-32 low GWP heat pump, a highly insulated, integrated DHW tank and an electrical back up heater, so no F-gas qualifications are required to install and service the unit. Installation and servicing are quick and easy too, thanks to a small footprint, factory-fitted piping on top of the unit, and a swappable hydro module.



All pipe connections on top, paired in and out

Standard electrical connections pre-cabled



Removable compressor module reduces the overall weight by 70 kg



Intuitive
user interface

The Daikin Eye
The intuitive Daikin Eye shows in real time the status of the system.



Quick to configure
Log in and you'll be able to completely configure the unit via the new user interface in 9 steps. You can even check if the unit is ready for use by running test cycles. You can upload the settings on an USB stick and download it directly into the unit, or via the cloud.

Easy operation
Work super-fast with the new user interface. It's easy to use with just a few buttons and two navigational knobs.

Beautiful design
The user interface is especially designed to be very intuitive. The high contrasted colour screen delivers stunning and practical visuals that really help you as installer or service engineer.



Blue
When the Daikin Eye indicates a blue colour, it means the boiler is functioning properly. The Daikin Eye will flash on and off when it's running on stand by mode.



Red
When the Daikin Eye indicates a red colour, it means the boiler is out of commission and requires a maintenance check.

Can be installed easily in confined spaces thanks to a small footprint and integrated handles



16 bar pressure rating of all hydraulic components on water loop side, to best fit high-rise buildings

Factory fitted pressure independent control valve for flow regulation from the common water loop (design flow: 9.6 L/min)

A complete package from Daikin



The beauty of the Daikin Altherma 3 WS system is that each in-apartment heat pump can connect to a wide variety of heat emitters and controls, all of which can be provided as a complete package by Daikin. This ensures seamless integration and consistency of the heating solution within each apartment.

Similarly, the communal water loop can be powered by range of different heat pump solutions. And once again, Daikin can offer a wide range of water source heat pumps, 2 and 4 pipe air source heat pumps, in an even wider range of configurations, to provide the central energy source for the collective heating system.

So for a highly efficient system that reduces the carbon footprint and offset payments of your apartment building, Daikin has the total solution.



EWSAH-D9W EWSAX-D9W

Indoor Unit			EWSA	H06D9W	X06D9W
B0/W35	Heating capacity	Nom.	kW	6.44	
	Power input	Max.	kW	1.67	
	COP			3.85	
W10/W35	Heating capacity	Nom.	kW	6.13	
	Power input	Nom.	kW	1.15	
	COP			5.33	
W10/W55	Heating capacity	Nom.	kW	5.61	
	Power input	Nom.	kW	1.72	
	COP			3.27	
W20/W35	Heating capacity	Nom.	kW	6.17	
	Power input	Nom.	kW	0.82	
	COP			7.49	
W20/W55	Heating capacity	Nom.	kW	6.30	
	Power input	Nom.	kW	1.48	
	COP			4.26	
W25/W35	Heating capacity	Nom.	kW	5.80	
	Power input	Nom.	kW	0.6	
	COP			9.62	
W25/W55	Heating capacity	Nom.	kW	6.36	
	Power input	Nom.	kW	1.35	
	COP			4.71	
Space heating according to EN14825 and EN14511:2018	Average climate Water in 10°C Water out 55°C	ηs (Seasonal space heating efficiency)	%	158	162
		Efficiency class		A+	
		sCOP		4.15	4.24
	Average climate Water in 10°C Water out 35°C	ηs (Seasonal space heating efficiency)	%	253	260
		Efficiency class		A+++	
		sCOP		6.51	6.70
Space heating according to real application conditions	Average climate water in 20°C water out 35 °C (fixed)	Average space heating efficiency	%	360.4	
		Average COP		9.21	
Space cooling W30/W7	Cooling capacity	Nom.	kW	-	5.81
	Power input	Nom.	kW	-	1.38
	EER			-	4.21
Space cooling W30/W18	Cooling capacity	Nom.	kW	-	6.11
	Power input	Nom.	kW	-	1.21
	EER			-	5.07
Domestic hot water	General	Declared load profile		L	
	Average climate	ηwh	%	115	
		Efficiency class		A+	
Casing	Colour			White + Black	
	Material			Precoated sheet metal	
Dimensions	Unit	HeightxWidthxDepth	mm	1,891x597x666	
Weight	Unit		kg	222	
Hot water tank	Material			Stainless steel (EN 14521)	
	Water volume		l	180	
	Insulation	Heat loss	kWh/24h	1.2	
	Corrosion protection			Pickling	
Operation range	Installation space	Min. ~ Max.	°C	5/35	
	Water inlet	Min. ~ Max.	°C	-10/+30	
	Heating	Water side Min. ~ Max.	°C	5/65	
	Domestic hot water	Water side Min. ~ Max.	°C	25/60	
Refrigerant	Type			R-32	
	GWP			675	
	Charge		kg	1.70	
	Charge		TCO2Eq	1.15	
Water loop side	Pressure rating		bar	16	
Design flow rate	Independent control valve		l/min	9.6	
Sound power level	Nom.		dBA	39.0	
Sound pressure level at 1 meter	Nom.		dBA	27.0	
Power supply	Name/Phase/Frequency/Voltage		Hz/V	3 ~/50/400 or 1 ~/50/230	
Current	Recommended fuses		A	3P 16A or 1P 32A	

This product contains fluorinated greenhouse gases.

Accessories

Type	Description	Product name	Note
Controller	Madoka wired room thermostat	BRC1HHDK/S/W	
	Wireless room thermostat	EKRTR1	
	Wired digital thermostat	EKRTWA	
	LAN Adapter	BRP069A61	Equivalent of BRP069A61 built-in.
	Daikin Altherma Modbus Gateway	DCOM-LT/MB-IO	
Sensors	Remote indoor sensor	KRCS01-1	
	External sensor for EKRTRB	EKRTETS	Can only be used in combination with the wireless room thermostat EKRTRB
	Current sensor	EKCSENS	
Heat pump convector	Floor standing / wall mounted / concealed	FWXV/T/M*	Multi combination (quantity, depends on capacity class). EKVKHPC needs to be installed mandatory on heat pump convector (exception: LT - H/O)
Other options	Digital I/O PCB	EKRP1HBAA	Additional relays to allow bivalent control in combination with external room thermostat are field supply.
	Demand PCB	EKRP1AHTA	
	Power cable for back-up heater	EKGSPOWCAB	
	Fernox magnetic filter 1"	K.FERNOXTF1	
	Fernox magnetic filter 1" and F1 inhibitor fluid (500ml)	K.FERNOXTF1FL	
	G3 kit 8 liter	EKUHWG3DS	For UK, mandatory combination. Recommended option.
	G3 kit 18 liter	EKUHWG3D	For UK, mandatory combination. Alternative to EKUHWG3DS.

Daikin Eco-system

Daikin is a one-stop-shop for heating by providing all equipments from the heat generators to the peripherals.

Domestic hot water tanks and thermal stores with solar panels are official combinations in our energy label website.

Heating systems are never complete without emitters, that's why Daikin provides all the underfloor heating accessories as well as heat pump convectors. The floor standing convector can optionally be equipped with an indoor air quality feature, allowing fresh air to enter the room when the CO_2 level is too high, thanks to a ventilation system.

Recently, Daikin partnered up with Duco to add a range of residential ventilation units (CHRV) that synergize with the convector range.

Since indoor air quality is a key topic for Daikin, the air purifier range was also extended to provide end-users with best air possible.



Wired room thermostats

P. 287



Onecta app

P. 294



herals

Heat pump convectors and underfloor heating

P. 304





Tanks

- Thermal stores and tanks 280

Thermal stores and tanks

Hot water heating installation solutions



Why choose a Daikin Altherma ST Thermal store or domestic hot water tank?

Whether you only need hot water or you want to combine your hot water with solar systems, we offer you the best solutions to the highest levels of comfort, energy efficiency and reliability.



Thermal store



Stainless steel tank

☑ Domestic hot water tanks

Stainless steel tanks

Comfort

- EKHWS(P)(U)-D: available in 150, 180, 200, 250 and 300 litres in stainless steel

Efficiency

- High-quality insulation keeps heat loss to a minimum
- Efficient temperature heating: from 10 °C to 50 °C in only 60 minutes
- Available as an integrated solution or separate tank

Reliability

- At necessary intervals, the unit can heat up water up to 60 °C to prevent the risk of bacteria growth

☑ The ECH$_2$O thermal store range

ECH$_2$O thermal store:
additional hot water comfort

Combine your monobloc with a thermal store to achieve the ultimate comfort at home.

- Fresh water principle: receive domestic hot water on demand while eliminating the risk of contamination and sedimentation
- Optimal domestic hot water performance: the low temperature evolution enables high tapping performance
- Fit for the future: possibility to integrate with renewable solar energy and other heat sources, e.g. fireplace
- Lightweight and robust build of the unit combined with the cascade principle offers flexible installation options

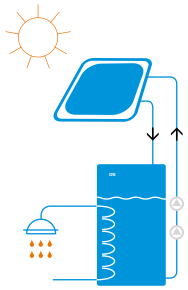
Built for small and large homes, customers can choose between a pressureless and a pressurised hot water system.

Efficiency

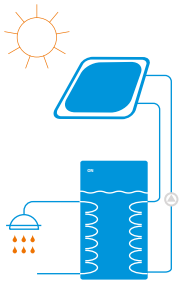
- Fit for the future: maximise renewable energy sources
- Intelligent Heat Storage Management: ensures continuous heating during defrost mode, and uses stored heat for space heating
- High-quality insulation keeps heat loss to a minimum

Reliability

- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no water loss through the safety valve



Drain-back solar system



Pressurised solar system

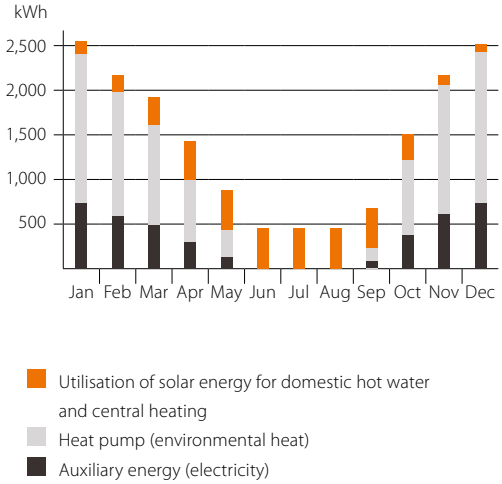
Pressureless (drain-back) solar system

- The solar collectors are only filled with water when sufficient heating is provided by the sun
- The pumps in the control and pump unit switch on briefly and fill the collectors with storage tank water
- After filling, water circulation is maintained by the remaining pump

Pressurised solar system

- System is filled with heat transfer fluid with the correct amount of antifreeze to avoid freezing in winter
- System is pressurised and sealed

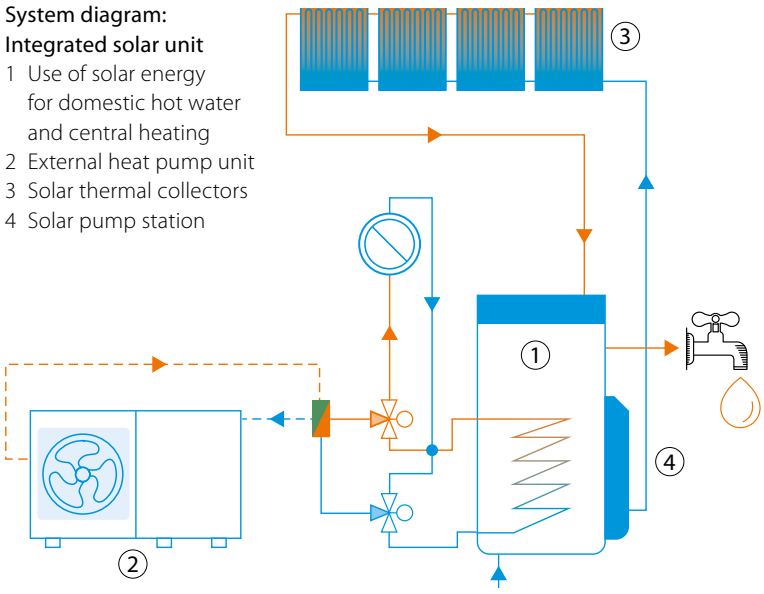
Monthly energy consumption of an average detached house



deze tekening komt uit GC en is anders dan deze die hier stond, welke is juist en mag behouden blijven?

System diagram:
Integrated solar unit

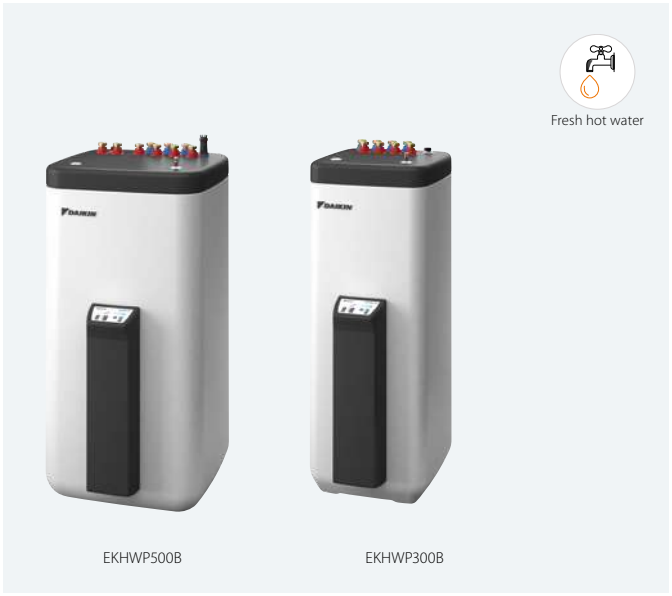
1 Use of solar energy for domestic hot water and central heating
2 External heat pump unit
3 Solar thermal collectors
4 Solar pump station



Thermal store

Plastic domestic **hot water tank with solar support**

- Tank designed for connection with pressurised thermal solar system
- Tank designed for connection with drainback thermal solar system
- Available in 300 and 500 liters
- Large hot water storage tank to provide domestic hot water at any time
- Heat loss is reduced to a minimum thanks to the high quality insulation
- Space heating support possible (500 L tank only)





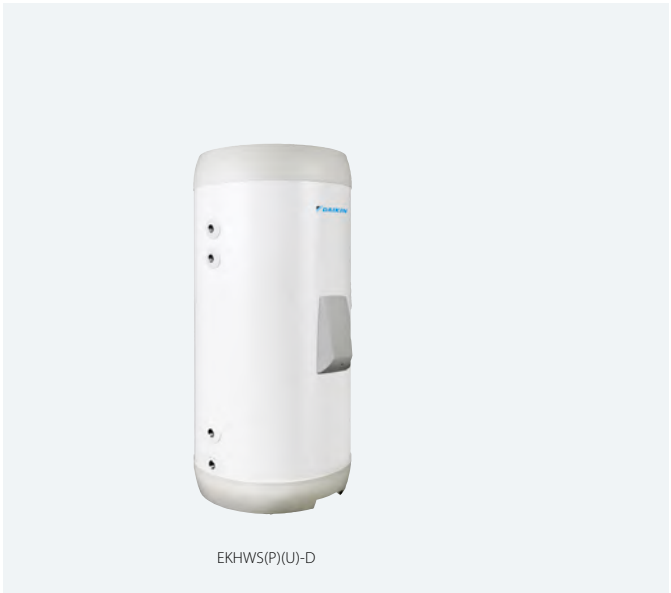
EKHWP-B EKHWP-PB

Accessory				EKHWP	300B	500B	300PB	500PB	54419B
Casing	Colour				Traffic white (RAL9016) / Dark grey (RAL7011)				
	Material				Impact resistant polypropylene				
Dimensions	Unit	Width	mm		595	790	595	790	
		Depth	mm		615	790	615	790	
		Height	mm		1,646	1,658	1,646	1,658	
Weight	Unit	Empty	kg		53	76	56	82	71
Tank	Water volume		L		294	477	294	477	
	Material				Polypropylene				
	Maximum water temperature		°C		85				
	Insulation	Heat loss	kWh/24h		1.50	1.70	1.50	1.70	
	Energy efficiency class				B				
	Standing heat loss		W		64	72	64	72	
	Storage volume		L		290	393	290	393	
Heat exchanger	Domestic hot water	Quantity			1				
		Tube material			Stainless steel (DIN 1.4404)				
		Face area	m²		5.60	5.80	5.60	5.90	5.80
		Internal coil volume	L		27.80	28.90	27.80	29	28.90
		Operating pressure	bar		10				
	Charging	Quantity			1				
		Tube material			Stainless steel (DIN 1.4404)				
		Face area	m²		2.66	3.70	2.66	3.70	1.95
		Internal coil volume	L		12.90	18.10	12.90	18.10	10
		Operating pressure	bar		6				3
	Auxiliary solar heating	Tube material			-	Stainless steel (DIN 1.4404)	-	Stainless steel (DIN 1.4404)	
		Face area	m²		-	0.76	-	0.76	
		Internal coil volume	L		-	3.90	-	3.90	
		Operating pressure	bar		-	3	-	3	

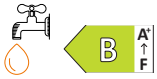
Domestic hot water tank

Stainless steel domestic hot water tank

- EKHWS(P)(U)-D: available in 150, 180, 200, 250 and 300 litres
- Stainless steel domestic hot water tank



EKHWS(P)(U)-D



85 °C

EKHWSU-D3V3 EKHWSP-D3V3 EKHWS-D3V3

Accessory				EKHWS(P)(U)	150D3V3	180D3V3	200D3V3	250D3V3	300D3V3
Casing	Colour				Neutral white				
	Material				Epoxy coated steel / Epoxy-coated mild steel				
Dimensions	Unit	Height	Tank	mm	1,000	1,164	1,264	1,535	1,745
Weight	Unit	Empty		kg	45	50	53	58	63
Tank	Water volume			L	145	174	192	242	292
	Material				Stainless steel (EN 1.4521)				
	Maximum water temperature			°C	75				
	Insulation	Heat loss		kWh/24h	1.10	1.20	1.30	1.40	1.60
	Energy efficiency class				B				
	Standing heat loss			W	45	50	55	60	68
	Storage volume			L	145	174	192	242	292
Heat exchanger	Domestic hot water	Quantity			1				
		Tube material			Stainless steel (EN 1.4521)				
		Face area		m^2	1,050	1,400	1,800		
		Internal coil volume		L	4.90	6.50	8.20		
		Operating pressure		bar	10				
Booster heater	Capacity			kW	3				
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/230				


DAIKIN
21 °C

Controllers

- Wired remote controller 287
- Individual room controllers 291
- Onecta App 294

Controls

With Daikin controllers, you're in full control of your Daikin heat pump. The wired controller range features easy-to-use thermostats to control the temperature of different rooms. The intuitive Daikin apps offer even more features to help schedule and manage the energy consumption of your units.

Onecta App
Requires WLAN Module (BRP069A71), WLAN cartridge (BRP069A78) or LAN Adapters (BRP069A61/2)



Wired remote controller
Madoka



Combination table

			
			BRC1HHDAW7/S7/K7
Daikin Altherma 3 H HT (F/W)	14-16-18 kW	EPRA14-18D7 + ETV/B*-E7	•
Daikin Altherma 3 H HT ECH$_2$O	14-16-18 kW	EPRA14-18E + ETS*-E7	•
Daikin Altherma 3 H MT (F/W)	8-10-12 kW	EPRA08-12E + ETV/B*-E	•
Daikin Altherma 3 H MT (ECH$_2$O)	8-10-12 kW	EPRA08-12E + ETS*-E	•
Daikin Altherma 3 R (F/W)	4-6-8kW	ERGA-E* + EHV/B*-E	•
Daikin Altherma 3 R ECH$_2$O	4-6-8kW	ERGA-E* + EHS*-E	•
Daikin Altherma 3 R (F/W)	11-14-16 kW	ERLA-D* + EBV/B*-D	•
Daikin Altherma 3 R ECH$_2$O	11-14-16 kW	ERLA-D* + EBS*-D	•
Daikin Altherma R HT	11-14-16 kW	EKHBRD-ADV/Y17 + ER(R/S)Q-AV/Y1	
Daikin Altherma 3 M	4-6-8-9-11-14-16 kW	E(B/D)LA-E/D*	•
Daikin Altherma R Hybrid	5-8 kW	EVLQ-CV3	
Daikin Altherma H Hybrid	4 kW	EJHA-AV3	
Daikin Altherma 3 GEO	6-10 kW	EGSA(H/X)-D9W	•
Daikin Altherma 3 C Gas W	12-35 kW	D2CND-A1A/A4A	

User-friendly wired remote controller with premium design

Madoka. The beauty of simplicity

Madoka



Black
RAL 9005 (matt)
BRC1HHDAK7



White
RAL9003 (glossy)
BRC1HHDAW7



Silver
RAL 9006 (metallic)
BRC1HHDAS7

Madoka combines refinement and simplicity

- Sleek and elegant design
- Intuitive touch-button control
- Three colours to match any interior
- Compact: measures only 85 x 85 mm

Easy update via Bluetooth

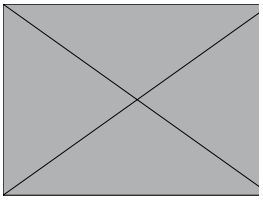
It is strongly recommended to make sure that the user interface is up to date. To update the software or check if updates are available, all you need is a mobile device and the Madoka Assistant app. The app is available on Google Play and in the App Store.

Available on the App Store

GET IT ON Google Play

Award-winning design

Madoka received an IF Design Award and Reddot Product Design Award for its innovative design. These awards represent two of the most prestigious and largest design competitions in the world.



DESIGN AWARD 2018

Daikin Home Controls

Wireless room by room control

For Daikin Altherma 3 heat pumps

A new generation of user interfaces: redesigned and intuitive

Intuitive control with a premium design
The smooth curves of the Madoka controller offer a sleek, refined shape which is distinguished by its striking blue circular display. Presenting a clear visual reference with large, easy-to-read numbers, the controller features are accessed through three touch buttons, which combine intuitive control with easy adjustability for an enhanced user experience.

Three colours to match any interior design
Whatever your interior design, Madoka will fit in. Silver will stand out in any home decor, while Black is a perfect match for darker, stylish interiors. White offers a sleek, modern look.

Easily set operation parameters
Setting and finetuning your controller is simple and helps you attain higher energy savings and more comfort. The system enables you to select the space operation mode (heating, cooling or automatic), set the desired room temperature and control the domestic hot water temperature.





Personalize your heating schedule

Create your own climate with Home Controls that can be ajdusted to your lifestyle.

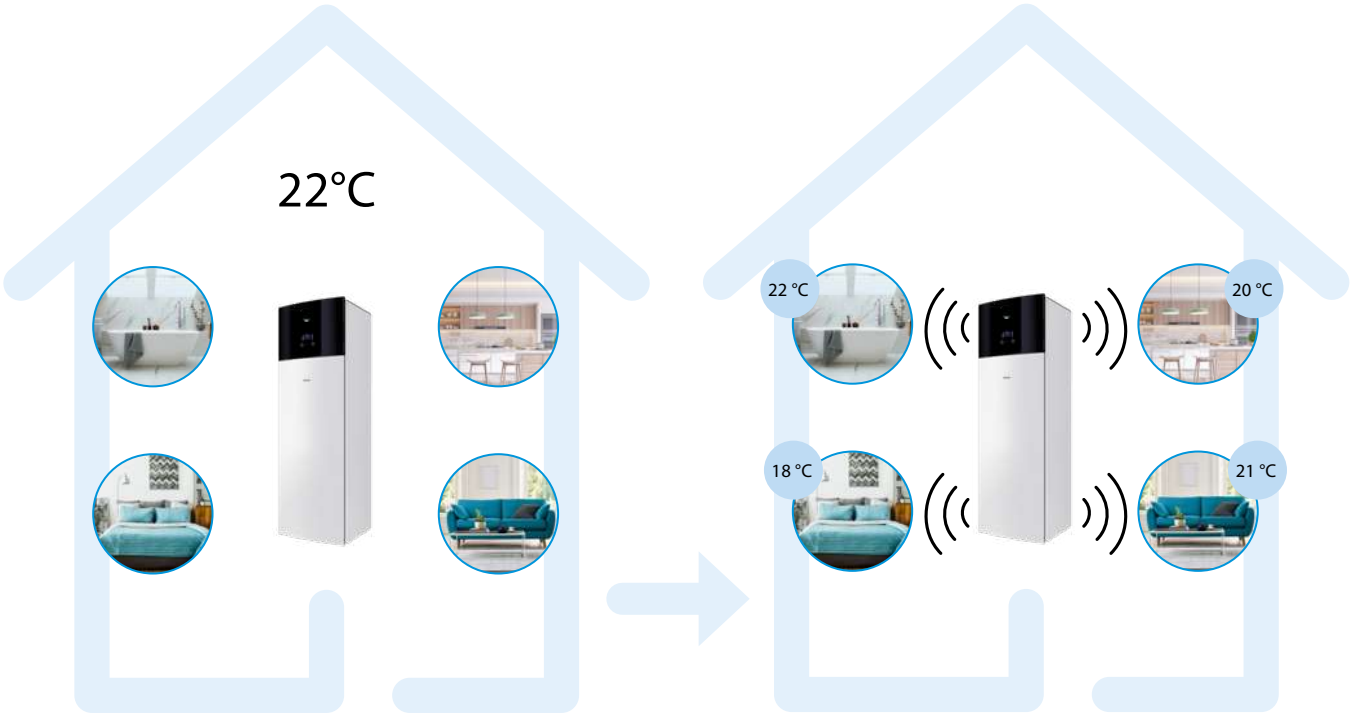
- Combine up to 80 Daikin Home Controls accessories in as many as 25 rooms on the Daikin Altherma. All accessories added to the same room will be automatically grouped together and follow the same schedule.
- Change the device name and room name anytime you want.
- Create schedules for heating (in rooms with radiators or underfloor heating) and cooling (in rooms with underfloor cooling).
- Use boost function to heat up rooms quickly.
- Invite other members of your household to control their comfort with the Onecta app.

				BRC1HHDW/S/K
Casing	Colour			Black/White/Silver
	Operation LED	Colour		Blue status indicator
Dimensions	Unit	Height	mm	85
		Width	mm	85
		Depth	mm	25
	Packed unit	Height	mm	50
		Width	mm	217
		Depth	mm	161
Weight	Unit		kg	0.11
	Packed unit		kg	0.317
Packing	Material			Cardboard
	Weight		kg	0.085
LCD	Type			100x150 dots
	Dimensions	Height	mm	40.70
		Width	mm	28
	Back light	Colour		White
Ambient temperature	Operation	Min.	°C	-10
		Max.	°C	50
	Storage	Min.	°C	-20
		Max.	°C	70
	Relative humidity		%	95
Backup for power failure				Yes (the clock wil keep functioning for period not exceeding 48 hours)
Control systems	Class of temperature control			VI
	Contribution to seasonal space heating efficiency		%	4
Wiring connections	Type of wires			Sheathed vinyl cord or cable
	Size		mm^2	0.75 - 1.25
	For connection with indoor	Quantity		2
		Remark		P1-P2 wired connection from indoor unit
	Wiring length	Max.	m	500


21.0°C

Individual wireless room controllers

Our individual wireless room controllers allow for a total flexibility in heating your home.



☑ Personalize your heating schedule

A traditional heating system allows you to control the temperature in only one room. With Daikin Home Controls you can choose the perfect temperature for each area separately.

☑ Wireless control for a better flexibility

Get rid of cables and have control from anywhere you are, thanks to the Onecta app.

Our wireless range of controllers makes your life easier. As soon as they are installed, you can program or control each room temperature from the intuitive app.



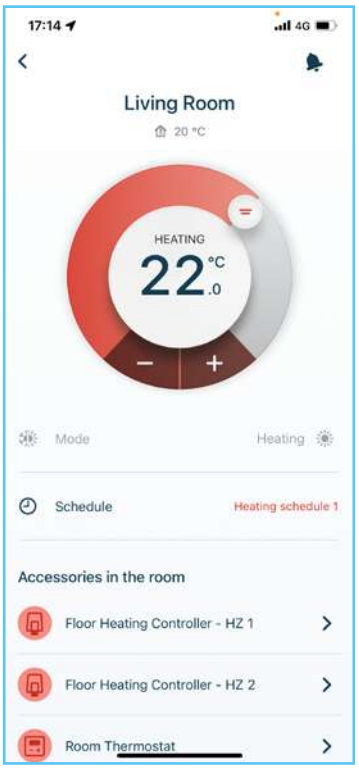
Always in control

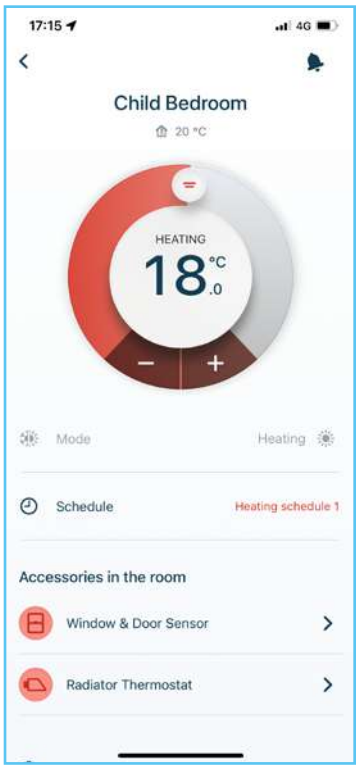
Jump into a fully connected system!

With Onecta app, you have an overview of all rooms temperatures. You can manage them individually, at home or remotely.



Room overview





Individual room overview

Portfolio overview

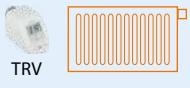


The access point connects all Daikin Home Controls accessories with the cloud

- The radiator thermostats open or close the radiator valves of each room to control its heating demand
- Easy to mount without having to drain any water (suitable for radiators with a thread size of M30 x 1.5)

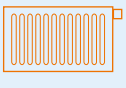
Access point
EKRACPUR1PA (EU)
EKRACPUR1PU (UK)





TRV





TRV

EKRRVATR2BA (EU)
EKRRVATU1BA (UK)

The multi (for reversable systems) or basic (for heating only systems) IO box connects your Daikin Home Controls eco system to the Daikin Altherma.





IO Box
EKRSIBDI1V3(H/O)
EKRMIBEV1V3

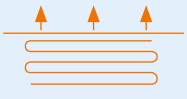
Floor heating controller
EKRUFHT61V3

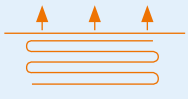
Actuators per zone
EKWCVATR1V3

Measure and control the room temperature in combination with radiator thermostats or the floor heating controller



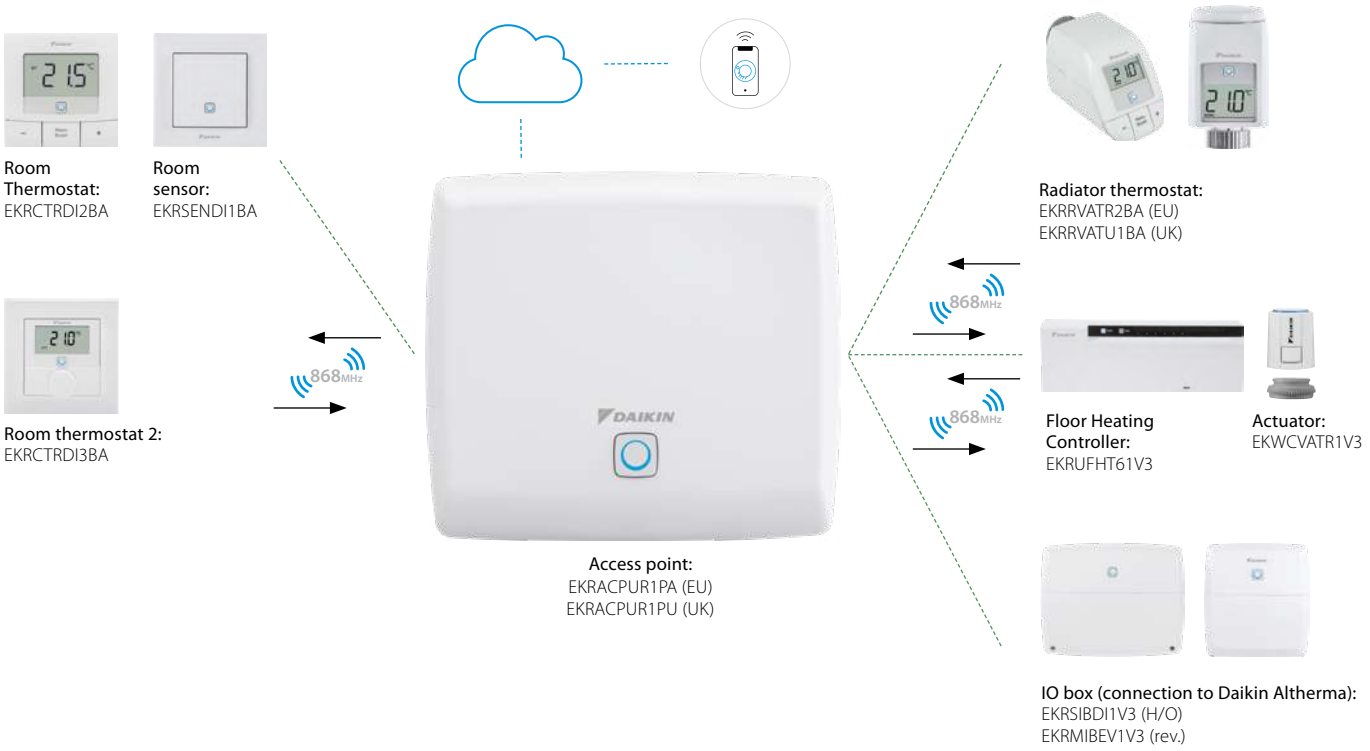
Room thermostat or sensor
EKRCTRDI2BA
EKRCTRDI3BA
EKRSENDI1BA





The floor heating controllers in combination with the actuators enables room by room control for rooms heated and/or cooled by underfloor heating.

Portfolio overview



Combination table

	Outdoor unit		Indoor unit	
Air-to-water heat pump	Daikin Altherma 4 H 06-08-10-12-14 kW	EPSK-A	Floor standing	EPVX/Z
			ECH_2O	EPSX(B)
			Wall mounted	EPBX
	Daikin Altherma 3 H MT 08-10-12 kW	EPRA-EV3/W1	Floor standing	ETVH/X/Z16-E7
			ECH_2O	ETSH(B)/X(B)16-E7
			Wall mounted	ETBH/X16-E7
	Daikin Altherma 3 H HT 14-16-18 kW	EPRA-DV3/W1(7)	Floor standing	ETVH/X/Z12-E
			ECH_2O	ETSH(B)/X(B)12-P-E
			Wall mounted	ETBH/X12-E
	Daikin Altherma 3 R 04-06-08 kW	ERGA-EV(7)(H)(A)	Floor standing	EHVH/X/Z-E
			ECH_2O	EHSH/X(B)-E
			Wall mounted	EHBH/X-E
	Daikin Altherma 3 R 11-14-16 kW	ERLA-DV3/W1	Floor standing	EBVH/X/Z-D
			ECH_2O	EBSH(B)/X(B)-D
			Wall mounted	EBBH/EBBX-D
	Daikin Altherma 3 R MT 08-10-12 kW	ERRA-EV3/W1	Floor standing	ELVH/X/Z-E
			ECH_2O	ELSH(B)/X(B)-E
			Wall mounted	ELBH/X-E
	Daikin Altherma 3 M	EBLA-D		
	09-11-14-16 kW	EDLA-D		
	Daikin Altherma 3 M	EBLA-E		
	04-06-08 kW	EDLA-E		
	Daikin Altherma 3 R	ERLA03DV	Floor standing	EHFH/Z03-S18D3V
Hybrid heat pump	Daikin Altherma R Hybrid	EVLQ-CV3	Wall mounted	EHYHBH-AV32
				EHYKOMB33AA2/3
	Daikin Altherma H Hybrid	EJHA-AV3	Boiler	EHY2KOMB28/32A A
Ground and water source heat pump	Daikin Altherma 3 GEO			EGSAH/X-(U)E9W
				EGSAH/X-(U)D9W
	Daikin Altherma 3 WS			EWSAH/X-(U)E3V
				EWSAH/X-(U)D9W



Onecta App

Now available with voice control

The Onecta App is for those who live their life on the go and who want to manage their Daikin system from their smartphone.



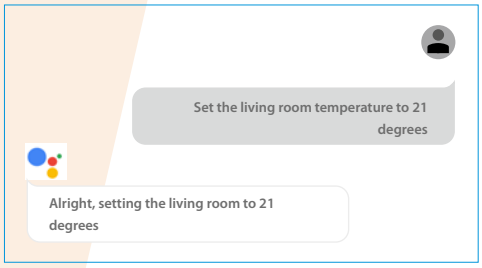
onecta

Voice control

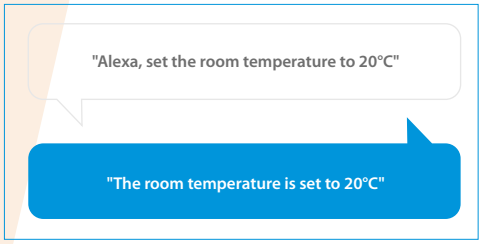
To provide users with even more comfort and ease, the Onecta App now offers voice control. This hands-free feature cuts down on clicks to manage units faster than ever before.
Cross-functional and multilingual, voice control pairs well with any smart device, including Google Assistant and Amazon Alexa.

works with the Google Assistant

amazon alexa



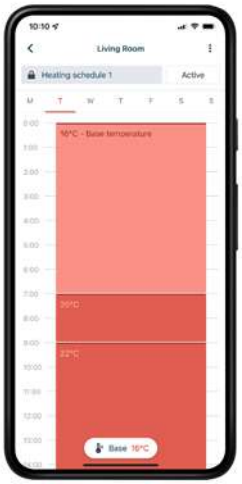
Example of using the voice control via Google Assistant



Scan the QR code to download the app now



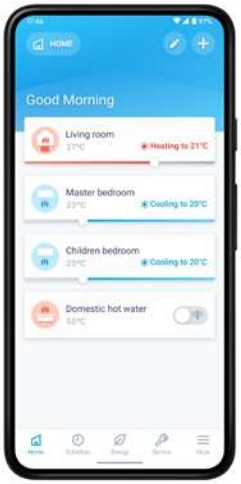




Schedule

Set up a programme outlining when the system should operate, and create up to six actions per day.

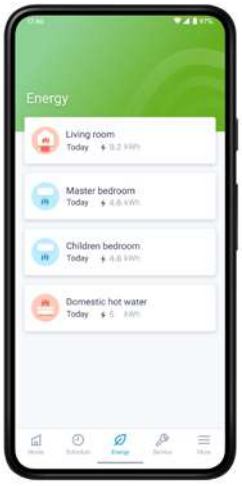
- ☑ Schedule room temperature and operation mode
- ☑ Enable holiday mode to save costs



Control

Customise the system to fit your lifestyle and year-round comfort levels.

- ☑ Change room and domestic hot water temperature
- ☑ Turn on powerful mode to boost hot water production



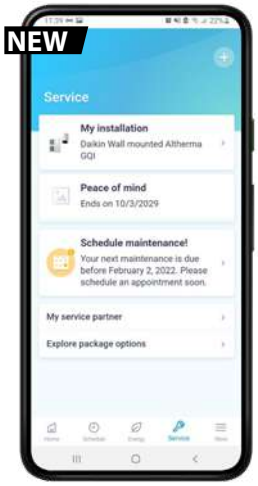
Monitor

Receive a thorough overview of how the system is performing and how much energy it consumes.

- ☑ Check the status of the heating system
- ☑ Access energy consumption graphs (day, week, month)

Function availability depends on the system type, configuration and operation mode. The app functionality is only available if both the Daikin system and the app have a reliable internet connection.

Available on the App Store | GET IT ON Google Play



Service - Warranty registration

- Register your unit and enjoy the benefits of Stand By Me *(extended warranty, Worry-free maintenance, Convenient follow-up)*
- Consult service partner information
- Purchase an extended warranty or get a check-up for your units


DAIKIN

Heating & cooling emitters

- Daikin Altherma UFH 298
- Daikin Altherma HPC floor standing 304
- Daikin Altherma HPC wall mounted 306
- Daikin Altherma HPC concealed 307

Daikin Altherma Underfloor heating

Your comfortable climate, day after day

Desired temperature at any time of year

Our heating systems make for a comfortable home. Heat generators such as an air-water heat pump use regenerative environmental energy as a heat source and so reduce energy consumption and keep costs to a minimum. But what about air conditioning of the rooms in summer? Very few residential buildings have air conditioning for a pleasant and comfortable temperature even on hot summer days and nights. That's changing now. With a heating system that not only provides comfortable warmth in winter, but also gentle cooling in summer throughout the entire building. And all this with very economical operation and no additional purchase costs.

Regenerative heating in winter, gentle cooling in summer

The Daikin heat pump really comes into its own when combined with a Daikin underfloor heating system. For cooling, the heat pump process is simply reversed, i.e. heat is extracted from the building and released into the environment. The room is cooled mainly by the underfloor heating system. The large surface makes for a very pleasant and draught-free room climate. Invisible and noiseless, even in cooling mode.

Clever combination: Underfloor heating and convector fan

A convector fan is used in rooms without underfloor heating to handle the dual functions of heating and cooling. It is the ideal complement to the Daikin heat pump if not all rooms have underfloor heating. Its very quiet operation means it can even be used in bedrooms. The integrated electronic room temperature control unit ensures an optimal climate in every room.

Maximum comfort and maximum savings – all-inclusive

With the existing or optionally available cooling function of the Daikin air-water heat pump, you can enjoy both heating and cooling in rooms with underfloor heating without any further outlay or investment. The operating costs for this additional comfort are also low.

Daikin Altherma ST solar thermal sytem: Minimizes energy costs

The integration of a solar system, which additionally contributes heating in winter from free solar energy, offers maximum living comfort with minimal energy costs.

	System temperatures 35 °C - 45 °C			System temperatures 55 °C - 70 °C		Option
Areas of application:	**Monopex**	**Monopex cut**	**Monopex Industrial**	**System 70**	**System 70 Industrial**	**Heat pump convector**
New building	•			(•)*		•
Modernisation with additional height						•
Modernisation without additional height		•				•
Underfloor heating combined with radiator				•	•	•
Heating and cooling (in combination with heat pump)	•	•	•			•
Wall heating						
Large areas			•		•	
Heat generators						
Boilers	•	•	•	•	•	•
Heat pump (low-temperature heating)	•	•	•			•

* If system temperature of the heat generator requires 55 °C - 70 °C in the flow line



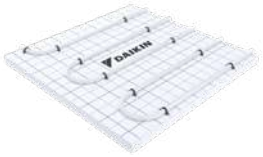
Monopex
The underfloor heating for low system temperatures. Ideal in combination with heat pumps.
- Monopex 14 for floor structures with system or tacker panel, wall heating and the Daikin milling system
- Monopex 16 (for France) for floor installation with system or tacker panels
- Monopex 17 for floor installation with system or tacker panels
- Monopex 20 for commercial and industrial surfaces



Clip rail for wall heating
Clip rail combined with Monopex 14 for wall heating.
Systems: Monopex 14



Protect system plate
The Protect system plate consists of a nub plate with an additional surface protection layer made of deep-drawn polystyrene to protect the heating pipe during installation.
Systems: Monopex



Tacker system
The Daikin tacker panel for underfloor heating pipes is available as a folding panel and roller track with laminated, high-strength film, and is ideal for laying heating pipes over large surfaces (e.g. commercial buildings).
Systems: Monopex



RMV heating circuit distributor
Heating circuit manifold in stainless steel. For all Daikin underfloor heating and radiator connection systems.



RMX heating circuit manifold
Heating circuit manifold made of heat-stabilised, glass fiber reinforced polyamide. For all Daikin underfloor heating and radiator connection systems.



Room controller
The room thermostat ensures convenient and individual control of the room temperature and impresses with its flat design and construction. Versions:

Wireless version
- Wireless without battery

Wired version
- LED display: Heating/cooling (red/blue)
- Read all status messages



Basic module with integrated power pack and clock module
- Basic module with integrated power pack to supply the control unit (wireless and wired) plus optional clock module
- Optimal interface to Daikin heat generators



Clock module to supplement basic module:
- 2 reduction times for heating circuits
- Pump stopping time
- Removable from the basic module for easy operation

Segmentation 1	Segmentation 2	Segmentation 3	Description	Product Name	Material Name
Piping					
UFH heating pipes	PEHD-Xc	Single pipe	MONOPEX® ø14 X 2 DD - 120	EMOPX14120AA	EMOPX14120A
			MONOPEX® ø14 X 2 DD - 240	EMOPX14240AA	EMOPX14240A
			MONOPEX® ø14 X 2 DD - 600	EMOPX14600AA	EMOPX14600A
			MONOPEX® ø17 X 2 DD - 120	EMOPX17120AA	EMOPX17120A
			MONOPEX® ø17 X 2 DD - 240	EMOPX17240AA	EMOPX17240A
			MONOPEX® ø17 X 2 DD - 600	EMOPX17600AA	EMOPX17600A
			MONOPEX ø20 X 2 DD - 400	EMOPX20400AA	EMOPX20400A
Floorplates					
Wet system Floorplates	Napplates	Diagonal With insulation	Protect Integral 27-2	EPROTECTIN272AA	EPROTECTIN272A
			Protect 11	EPROTECT11AA	EPROTECT11A
	Tacker	Tacker System	Tackerplate	ETACKERPLATEAA	ETACKERPLATEA
			Tackerplate roll	ETACKERPLATERAA	ETACKERPLATERA
Pipe accessories	Protection Pipe		Protection pipe 16/21	EPROTEPIP1621AA	EPROTEPIP1621A
			Protection pipe 19/25	EPROTEPIP1925AA	EPROTEPIP1925A
			Protection pipe 23/28	EPROTEPIP2328AA	EPROTEPIP2328A
Wall/side-strips					
Installation accessory	Plate accessories	Wall/side-strips	Side-strip for screed floor RDS	ESIDESTRIPRDSAA	ESIDESTRIPRDSA
			Closing cord floating screed floor RDS (in knob plate)	ESEALLINERDSAA	ESEALLINERDSA
			Side-strip for concrete floor RDS-I	ESIDESTRPRDSIAA	ESIDESTRPRDSIA
			Extension joint profile - carton	EXPANSIOJOICAA	EXPANSIOJOICA
			Extension joint profile - PP or PE	EXPANSIOJOIPEAA	EXPANSIOJOIPEA
	Screed Material				
	Screed		Screed Estrolith H2000	ESCREDEST2000AA	ESCREDEST2000A
			Screed Temporex	ESCREDTEMPREXAA	ESCREDTEMPREXA
			Screed Estrotherm S	ESCREDESTROSAA	ESCREDESTROSA
	Plate accessories	Primer	Surface primer 3.5kg	ESURFPRIMER35AA	ESCREDESTROSA
			Surface primer 15kg	ESURFPRIMER15AA	ESURFPRIMER35A
		In pipe protection fluid	Freeze and corrosion protection	EFREZCOPROTECAA	EFREZCOPROTECA
	Accessories				
	Tacker accessories	Tacker installation	System tacker STAC (tacker gun)	ESYSTACERSTACAA	ESYSTACERSTACA
		Tacker nail	Tacker nail TN40	ETACKERNAIL40AA	ETACKERNAIL40A
			Tacker nail TN60	ETACKERNAIL60AA	ETACKERNAIL60A
		Tape	Tape KB50	ETAPEKB50AA	ETAPEKB50A
	Wall system accessories	Cliprail	Cliprail	ECLIPRAILAA	ECLIPRAILA
		Cliprail accessories	Cliprail nail	ECLIPRAILNAILAA	ECLIPRAILNAILA
			Cliprail plug	ECLIPRAILPLUGAA	ECLIPRAILPLUGA
	Pipe accessories	Pipe clips	Pipe clips (Monopex 17/20)	EPIPECLIPMOPXAA	EPIPECLIPMOPXA
			Pipe clips (DUO25)	EPIPECLIPDUOAA	EPIPECLIPDUOA
		Manual pipe handling	Pipe fixation for steel frame	EPIPEFIXSTEELAA	EPIPEFIXSTEELA
			Pipe damage recoverator	EPIPEDAMGERECAA	EPIPEDAMGERECA
			Combined pipe cutter and stripping pilers RAZ1	EPIPCUTSTRAZ1AA	EPIPCUTSTRAZ1A
			Pipe cutter	EPIPECUTTERAA	EPIPECUTTERA
		PE Foil	PE Foil, 0.2 mm, 5 cm Raster	EPEFOILRASTERAA	EPEFOILRASTERA
Accessory		**Pipe rolling machine**			
		Pipe roll out	Pipe rolling machine 1 (Service)	915038	915038
			Pipe rolling machine 2 (Service)	915039	915039
			Pipe rolling machine 3 (Service)	915040	915040
		Pipe bend			
		Pipe bend	Pipe bend for 14-18	EPIPEBEND1418AA	EPIPEBEND1418A
			Pipe bend for 20-22	EPIPEBEND2022AA	EPIPEBEND2022A

UFH collector					
Collector	RMV/RMX collector	RMV collector (Stainless steel)	RMV 2	ECOLLECTRMV2AA	ECOLLECTRMV2A
			RMV 3	ECOLLECTRMV3AA	ECOLLECTRMV3A
			RMV 4	ECOLLECTRMV4AA	ECOLLECTRMV4A
			RMV 5	ECOLLECTRMV5AA	ECOLLECTRMV5A
			RMV 6	ECOLLECTRMV6AA	ECOLLECTRMV6A
			RMV 7	ECOLLECTRMV7AA	ECOLLECTRMV7A
			RMV 8	ECOLLECTRMV8AA	ECOLLECTRMV8A
			RMV 9	ECOLLECTRMV9AA	ECOLLECTRMV9A
			RMV 10	ECOLLECTRMV10AA	ECOLLECTRMV10A
			RMV 11	ECOLLECTRMV11AA	ECOLLECTRMV11A
			RMV 12	ECOLLECTRMV12AA	ECOLLECTRMV12A
		RMX Collector (Plastic)	RMX 2	ECOLLECTRMX2AA	ECOLLECTRMX2A
			RMX 3	ECOLLECTRMX3AA	ECOLLECTRMX3A
			RMX 4	ECOLLECTRMX4AA	ECOLLECTRMX4A
			RMX 5	ECOLLECTRMX5AA	ECOLLECTRMX5A
			RMX 6	ECOLLECTRMX6AA	ECOLLECTRMX6A
			RMX 7	ECOLLECTRMX7AA	ECOLLECTRMX7A
			RMX 8	ECOLLECTRMX8AA	ECOLLECTRMX8A
			RMX 9	ECOLLECTRMX9AA	ECOLLECTRMX9A
			RMX 10	ECOLLECTRMX10AA	ECOLLECTRMX10A
			RMX 11	ECOLLECTRMX11AA	ECOLLECTRMX11A
			RMX 12	ECOLLECTRMX12AA	ECOLLECTRMX12A
		UFH collector Accessories			
		Collector acc	Extension 1 zone	EXTENSIONZONEAA	EXTENSIONZONEA
			Flow sensor DMR RMX	EFLOSENDMRRMXAA	EFLOSENDMRRMXA
			COUPLING NIPPLE ¾" EUROCONE SKU	ECLUTCHNIPSKUAA	ECLUTCHNIPSKUA
			Shut off valve	ESHUTOFVALVEAA	ESHUTOFVALVEA
			AlPex coupling	EAIPEXCOUPLINAA	EAIPEXCOUPLINA
		Set ring	Set ring DUO 17	ESERIMOPXDU17AA	ESERIMOPXDU17A
			Set ring Monopex 14 x 2.2	ESERIMOPX14AA	ESERIMOPX14A
			Set ring Monopex 16 x 2.2	ESERIMOPX1622AA	ESERIMOPX1622A
			Set ring Monopex 17	ESERIMOPX17AA	ESERIMOPX17A
			Set ring DUO 25	ESERIMOPXDU25AA	ESERIMOPXDU25A
			Set ring Monopex 16 x 1.5	ESERIMOPX1615AA	ESERIMOPX1615A
			Set ring Monopex 20	ESERIMOPX20AA	ESERIMOPX20A
		Collector acc	Connection set ASH1	ECONECSETASH1AA	ECONECSETASH1A
	HKV	Set ring	Shut of for set ring	ESETRINGSHTOFAA	ESETRINGSHTOFA
Calorimeter			Calorimeter	ECALORIMETERAA	ECALORIMETERA
		Combi box	Combi box	ECOMBIBOXAA	ECOMBIBOXA
Wall Box					
	RMV/RMX	In wall collector box	In wall until RMX4/RMV3 (HKV compatible)	EIWRX4RV3AA	EIWRX4RV3A
			In wall until RMX7/RMV6 (HKV compatible)	EIWRX7RV6AA	EIWRX7RV6A
			In wall until RMX10/RMV9 (HKV comptaible)	EIWRX10RV9AA	EIWRX10RV9A
			In wall until RMX14/RMV13 (HKV compatible)	EIWRX14RV13AA	EIWRX14RV13A
			In wall until RMX14/RMV13 + calorimeter (HKV compatible)	EIWRX14RV13CLAA	EIWRX14RV13CLA
	HKV/RMX/RMV	On wall collector box	On-wall until HKV7/RMX7/RMV6	EOWHV7RX7RV6AA	EOWHV7RX7RV6A
			On-wall until HKV10/RMX10/RMV9	EOWH10RX10R9AA	EOWH10RX10R9A
			On-wall until HKV14/RMX14/RMV12	EOWH14RX14R12AA	EOWH14RX14R12A
			On-wall until HKV14/RMX14/RMV12 + calorimeter	EOWH14R14R12CAA	EOWH14R14R12CA
Console					
		Fixation console	Fixation console STK 40 for WEK40	EFCSTK40WEK40AA	EFCSTK40WEK40A
			Fixation console STK 45 for WEK45	EFCSTK45WEK45AA	EFCSTK45WEK45A
Controllers					
Controllers		Wired controllers	Base module UFH-BM	EKW175137	EKW175137
			Clock module UFH-UM	EKW175138	EKW175138
			Controller module, wire UFH-RMD2	EKW175141	EKW175141
			Controller module, wire UFH-RMD6	EKW175140	EKW175140
			Room controller, wire UFH-RD	EKW175139	EKW175139
		Wireless controllers	Rocon UFH wireless UFH-RT	175142	175142
			Base station 6 channels wireless UFH-RMF6A	175143	175143
			2 channels extra wireless UFH-RMF2A	175144	175144
		Actuators	Valve actuator RMV/RMX/HKV	EKWCVATR1V3	EKWCVATR1V3
		Base station/ Thermostat	Base station 10 zones	EKWUFHTA1V3	EKWUFHTA1V3
			Digital thermostat 230V	EKWCTRDI1V3	EKWCTRDI1V3
			Analog thermostat 230V	EKWCTRAN1V3	EKWCTRAN1V3

Heat pump convectors Daikin Altherma HPC

What is a heat pump convector?

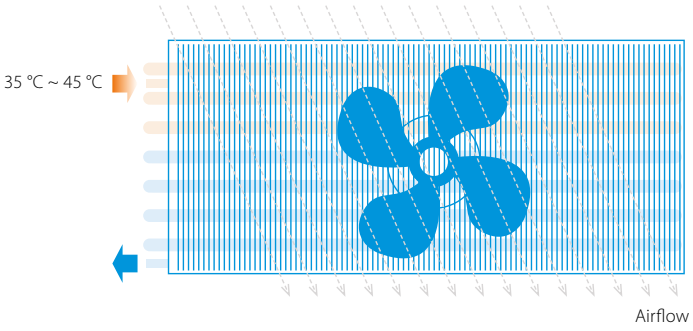
Daikin Altherma HPC provides both cooling and heating. The system is compatible with underfloor piping and radiators in a multi-zoning installation, or can replace radiators in combination with low temperature heat pumps. The unit is suited for use in bedrooms and living rooms thanks to its silent operation.

How does it work?

The way a heat pump convector works is similar to a radiator, as both use convection to heat a room. A radiator creates convection by running water through its pipes. With a heat pump convector, the convection process is faster because there is a small fan behind it, speeding up the heating cycle.

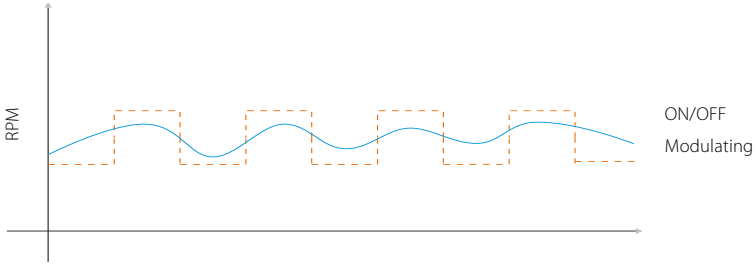
A heat pump convector creates the same room temperature as a traditional radiator, but with lower water temperatures inside the radiator, which in the long run contributes to direct energy savings for end users.

- Optimized for newly built houses.
- Can be set at low water temperature (35 °C) which makes it ideal for heat pump applications.



Modulated airflow

When there is less heating demand, the unit modulates its airflow to slow down the fan rate, and in the process, lowers the operational sound. A standard ON/OFF fan running simultaneously at full speed can increase sound pressure.



DC Inverter

Daikin Altherma HPC uses the latest technologies to consume less electricity down to 3W of standby power input.

Natural symbiosis with heat pumps

By running on low temperature, Daikin Altherma heat pump convectors naturally fit with Daikin heat pumps. The heat pump convector range is made of 3 models:

1. Floor standing model with indoor air quality control (optional)
2. Wall mounted model with remote control
3. Concealed model hidden in the ceiling or wall



Daikin Altherma HPC Floor standing model



The floor standing heat pump convector impresses with its low sound operations, and its slim design that received the RedDot Award 2020. Next to heating and cooling, the unit can also provide indoor air quality control.

Why Indoor Air Quality Matters

Indoor Air Quality (IAQ) refers to the air quality in a building or structure, breathed in every day by the building's occupants.

When planning new residential buildings, schools, offices or light commercial buildings, many things must be considered. Besides structural factors, there are also the topics of heating, cooling and something often neglected: indoor air quality.

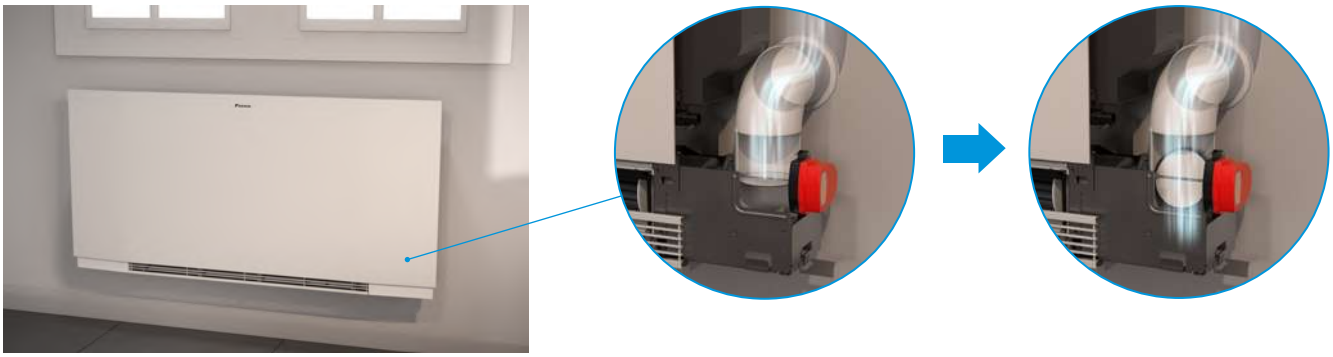
Did you know that the indoor air we breathe, whether at home, at the office, or in a hotel room could in fact be much more polluted than the air outside?

- 90% of our lives is spent indoors
- Indoor air quality can be 2 to 5 times worse than outdoor air quality because of pollutants, such as pollen, bacteria, etc.



How does Daikin Altherma HPC ensure a healthy and comfortable indoor air quality?

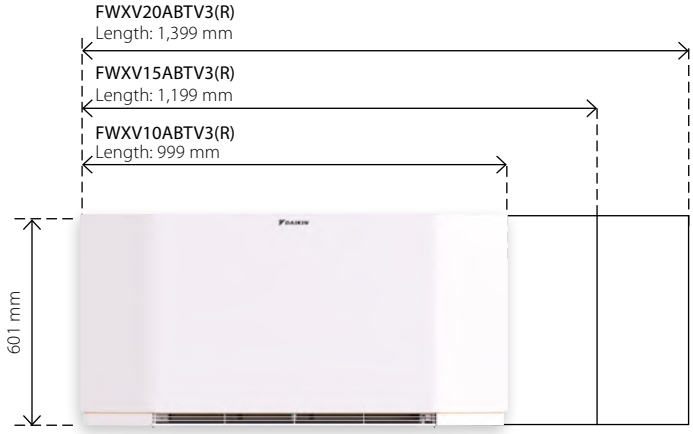
When a pollutant level of indoor air is reached, the IAQ sensor opens a damper, which allows fresh air to come in. The incoming fresh air is immediately heated or cooled (depending on the demand) by the heat pump convector. In this way the indoor air remains of good quality while comfort is ensured.





Slim design

The floor standing Daikin Altherma HPC has a depth of only 135 mm that fits any house or apartment. Its optimised design was rewarded with the Reddot Design Award 2020.



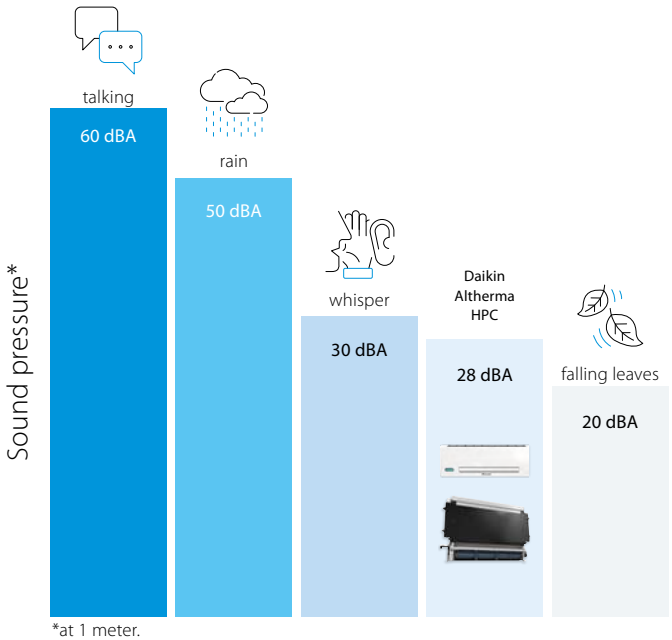
Fast and high capacity

The Daikin Altherma HPC combines the advantages of residential underfloor heating and radiators. It delivers high-capacity heating or cooling faster and can be set at ultra-low temperatures (35/30 °C regime).



Discreet

As the unit reaches its set point, a continuous modulating fan gradually reduces its speed and creates less noise. For the wall mounted and concealed units, the sound pressure measures 25dB(A) at 1m when the fan is on low-speed setting. Even lower sound pressure in super-silent mode (night mode).



*at 1 meter.

Controls

Daikin offers a wide variety of controllers that are functional and have a great design.

EKRTCTRL1



- Built-in controller
- Fully modulating
- Multicolor display

EKRTCTRL2



- Built-in controller
- 4 speed settings

EKWHCTRL1



- Wall controller
- Fully modulating
- In combination with EKWHCTRL0

EKPCBO



- Built-in controller
- ON/OFF
- In combination with external thermostats

EKWHCTRL1A



- Wall controller
- Fully modulating
- In combination with EKWHCTRL0
- Includes indoor air quality sensor

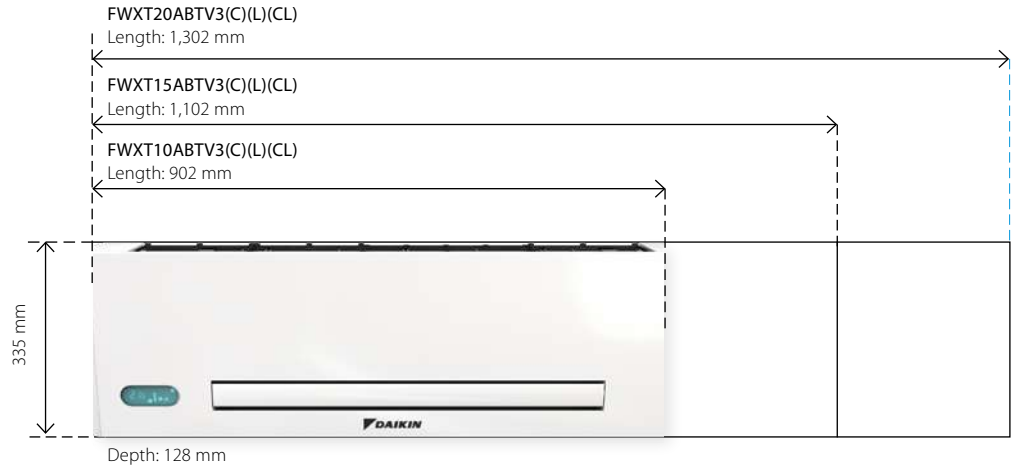


Wall-mounted model

Thanks to its slim design, our wall-mounted unit blends in with your interior discreetly while helping you save valuable floor space.

Slim design

Daikin Altherma HPC is a compact unit made of a design metal casing including all valves.



Controls

Choice of:
- Fully modulating controller allowing for remote control of the unit.
- Infrared remote controller and on-board touch panel.

EKWHCTRL1



- Wall controller
- Fully modulating
- For models FWXT-ABTV3(L)

Infrared remote controller



- Remote
- Fully modulating
- For models FWXT-ABTV3C(L)

Compactness



1 **Slim depth**
The depth of 128 mm is an outstanding technical achievement that ensures a perfect fit in any home.

2 **More space for valves**
Ease of installation: the space for hydraulic valves is wide and easily accessible.

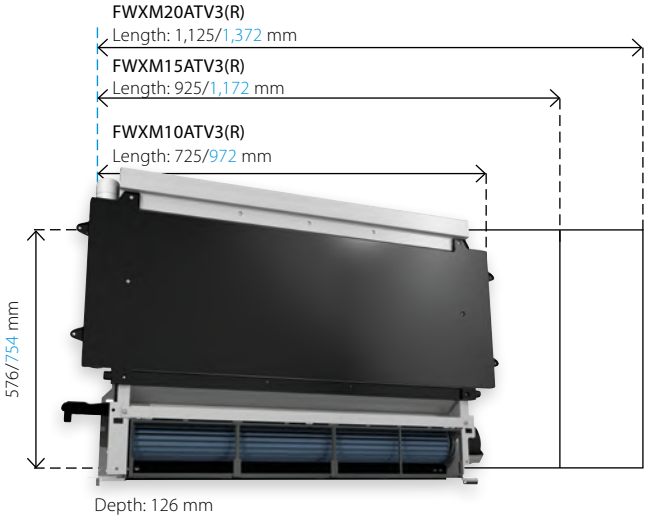
3 **Modulated airflow**
When there is less heating demand, the unit modulates its airflow to slow down the fan rate, and in the process, lowers the operational sound.



Concealed model

Forget about your heating or cooling installation altogether: our concealed model vanishes into the wall or ceiling for visual comfort while preserving its unique heating and cooling capabilities.

Slim design



Blue dimensions are for the front cover.

Controls

EKWHCTRL1



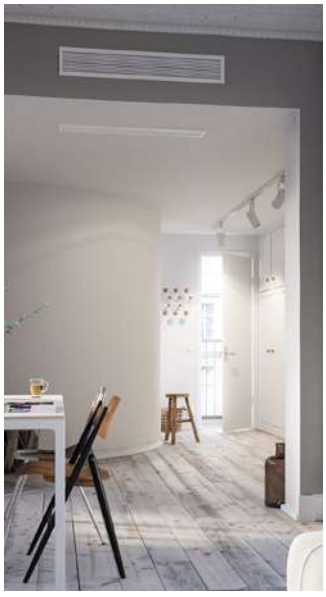
- Wall controller
- Fully modulating
- In combination with EKWHCTRL0

Flexible installation

Daikin Altherma HPC can be installed in four different ways, allowing you to install it in almost all conditions. The unit can be positioned horizontally or vertically. For horizontal, in-ceiling installation, three different possibilities are offered:

- Horizontal cover panel and vertical grille for air outlet
- Horizontal intake grille and vertical grille for air outlet
- Horizontal intake and outlet grilles





Heat pump convectors

FWXV-ATV3 FWXV-ATV3R

Indoor unit					**FWXV10ABTV3(R)**	**FWXV15ABTV3(R)**	**FWXV20ABTV3(R)**
Cooling capacity at 7/12 °C	Min.			kW	0.78	1.10	1.13
	Med.			kW	1.11	1.65	1.98
	Max.			kW	1.62	2.64	2.99
Sensible cooling capacity at 7/12 °C	Min.			kW	0.58	0.82	0.85
	Med.			kW	0.71	1.15	1.55
	Max.			kW	1.25	1.91	2.33
Heating capacity at 45/40 °C	Min.			kW	0.87	1.12	1.11
	Med.			kW	1.27	1.83	2.32
	Max.			kW	1.96	2.86	3.50
Power input	Min.			W	6	7	8
	Med.			W	10	13	15
	Max.			W	19	25	31
Fan speed	Min.			RPM		720	
	Med.			RPM		1,220	
	Max.			RPM		1,700	
Casing	Colour					White, RAL 9003	
	Material					Metal sheet	
Dimensions	Unit	Height		mm		601	
		Width		mm	999	1,199	1,399
		Depth		mm		135	
	Packed unit	Height		mm		690	
		Width		mm	1,230	1,430	1,630
		Depth		mm		210	
Weight	Unit			kg	20	23	26
	Packed unit			kg	21	24	27
Packing	Material					Carton	
	Weight			kg		1	
Heat exchanger	Quantity					1	
	Internal coil volume			l	0.80	1.13	1.46
		Max Operating pressure		bar		10	
Water circuit	Piping connections diameter			inch		3/4" male	
	Piping material					Copper	
	Heating - Water pressure drop at 45/40 °C	Min.		kPa	7	9	8
		Med.		kPa	8	14	15
		Max.		kPa	11	23	22
	Cooling - Water pressure drop at 7/12 °C	Min.		kPa	7	9	8
		Med.		kPa	8	14	15
		Max.		kPa	11	23	22
	Heating - Water flow rate at 45/40 °C	Min.		kg/h	150	193	191
		Med.		kg/h	218	315	399
		Max.		kg/h	337	492	602
	Cooling - Water flow rate at 7/12 °C	Min.		kg/h	134	189	194
		Med.		kg/h	191	284	341
		Max.		kg/h	279	454	514
	Pressure	Heating/Max.		bar		10	
Sound power level	Min.			dBA	40	42	43
	Med.			dBA	47	49	50
	Max.			dBA	56	57	58
Operation range	Heating	Water side	Min.	°C		30	
			Max.	°C		85	
	Cooling	Water side	Min.	°C		5	
			Max.	°C		18	
	Indoor installation	Ambient	Min.	°CDB		0	
			Max.	°CDB		45	
Control systems	Infrared remote control					no	
	On-board control					yes	
Electrical specifications					**FWXV10ABTV3(R)**	**FWXV15ABTV3(R)**	**FWXV20ABTV3(R)**
Power supply	Phase					1	
	Frequency			Hz		50	
	Voltage			V		230	
Electrical power consumption	Max.			W	19	25	31
	Standby			W	3	4	5
Current	Maximum running current			A	0.15	0.21	0.27

Heat pump convectors

FWXT-ATV3 FWXT-ATV3C FWXT-ATV3L FWXT-ATV3CL

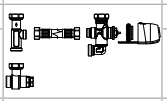
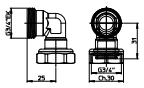
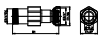
Indoor unit					FWXT10ABTV3(C)(L)(CL)	FWXT15ABTV3(C)(L)(CL)	FWXT20ABTV3(C)(L)(CL)
Cooling capacity at 7/12 °C	Min.			kW	0.49	0.62	0.70
	Med.			kW	0.88	1.08	1.21
	Max.			kW	1.24	1.61	1.94
Sensible cooling capacity at 7/12 °C	Min.			kW	0.37	0.52	0.57
	Med.			kW	0.70	0.86	1.02
	Max.			kW	0.98	1.27	1.52
Heating capacity at 45/40 °C	Min.			kW	0.55	0.79	0.74
	Med.			kW	1	1.36	1.55
	Max.			kW	1.50	2.01	2.13
Power input	Min.			W		5	
	Mid.			W	8	9	10
	Max.			W	19	20	29
Fan speed	Min.			RPM		680	
	Med.			RPM		1,100	
	Max.			RPM		1,500	
Casing	Colour					White, RAL 9003	
	Material					Metal sheet	
Dimensions	Unit	Height		mm		335	
		Width		mm	902	1,102	1,302
		Depth		mm		128	
	Packed unit	Height		mm		490	
		Width		mm	1,030	1,230	1,430
		Depth		mm		210	
Weight	Unit			kg	14	16	19
	Packed unit			kg	15	17	20
Packing	Material					Carton	
	Weight			kg		1	
Heat exchanger	Quantity					1	
	Internal coil volume			l	0.50	0.61	0.77
		Max Operating pressure		bar		10	
Water circuit	Piping connections diameter			inch		3/4" male	
	Piping material					Copper	
	Heating - Water pressure drop at 45/40 °C	Min.		kPa	5.10	4.81	6
		Med.		kPa	12	6.30	6.40
		Max.		kPa	16.30	7.20	8.10
	Cooling - Water pressure drop at 7/12 °C	Min.		kPa	4.80	4.70	5.50
		Med.		kPa	10.50	5.60	5.40
		Max.		kPa	11.70	5.10	5.30
	Heating - Water flow rate at 45/40 °C	Min.		kg/h	100	140	150
		Med.		kg/h	170	240	300
		Max.		kg/h	260	350	420
	Cooling - Water flow rate at 7/12 °C	Min.		kg/h	80	110	120
		Med.		kg/h	150	190	210
		Max.		kg/h	210	280	330
	Pressure	Heating/Max.		bar		10	
Sound power level	Min.			dBA	35	36	37
	Med.			dBA	46	47	48
	Max.			dBA	53	54	55
Operation range	Heating	Water side	Min.	°C		30	
			Max.	°C		85	
	Cooling	Water side	Min.	°C		5	
			Max.	°C		18	
	Indoor installation	Ambient	Min.	°CDB		0	
			Max.	°CDB		45	
Control systems	Infrared remote control					yes for -C models	
	On-board control					yes	
Electrical specifications					**FWXT10ABTV3(C)(L)(CL)**	**FWXT15ABTV3(C)(L)(CL)**	**FWXT20ABTV3(C)(L)(CL)**
Power supply	Phase					1	
	Frequency			Hz		50	
	Voltage			V		230	
Electrical power consumption	Max.			W	19	20	29
	Standby			W	3	4	5
Current	Maximum running current			A	0.16	0.18	0.24

Heat pump convectors

FWXM-ATV3 FWXM-ATV3R

Indoor unit					FWXM10ATV3(R)	FWXM15ATV3(R)	FWXM20ATV3(R)
Cooling capacity at 7/12 °C	Min.			kW	0.75	1.15	1.32
	Med.			kW	1.36	2.08	2.39
	Max.			kW	2.12	2.81	3.30
Sensible cooling capacity at 7/12 °C	Min.			kW	0.59	0.83	1.02
	Med.			kW	1.07	1.51	1.84
	Max.			kW	1.72	2.11	2.71
Heating capacity at 45/40 °C	Min.			kW	0.82	1.20	1.47
	Med.			kW	1.53	2.16	2.59
	Max.			kW	2.21	3.02	3.81
Power input	Min.			W	4	6	5
	Med.			W	8	11	11
	Max.			W	19	20	29
Fan speed	Min.			RPM		680	
	Med.			RPM		1,100	
	Max.			RPM		1,500	
Casing	Material					No casing	
Dimensions	Unit	Height		mm		576	
		Width		mm	725	925	1,125
		Depth		mm		126	
	Packed unit	Height		mm		690	
		Width		mm	830	1,030	1,230
		Depth		mm		210	
Weight	Unit			kg	12	15	18
	Packed unit			kg	13	16	19
Packing	Material					Carton	
	Weight			kg		1	
Heat exchanger	Quantity				1	1	1
	Internal coil volume			l	0.80	1.13	1.46
		Max Operating pressure		bar		10	
Water circuit	Piping connections diameter			inch		3/4" male	
	Piping material					Copper	
	Heating - Water pressure drop at 45/40 °C	Min.		kPa	1.50	2.70	3
		Med.		kPa	4.30	9.30	8.90
		Max.		kPa	1.90	19.10	21.20
	Cooling - Water pressure drop at 7/12 °C	Min.		kPa	1.90	2.70	2.50
		Med.		kPa	4.30	9.90	8.80
		Max.		kPa	8.20	17.10	18
	Heating - Water flow rate at 45/40 °C	Min.		kg/h	141	206	253
		Med.		kg/h	263	372	445
		Max.		kg/h	380	519	655
	Cooling - Water flow rate at 7/12 °C	Min.		kg/h	129	198	227
		Med.		kg/h	234	358	411
		Max.		kg/h	365	483	568
	Pressure	Heating/Max.		bar		10	
Sound power level	Min.			dBA	35	36	36
	Med.			dBA	45	46	47
	Max.			dBA	53	54	55
Operation range	Heating	Water side	Min.	°C		30	
			Max.	°C		85	
	Cooling	Water side	Min.	°C		5	
			Max.	°C		18	
	Indoor installation	Ambient	Min.	°CDB		0	
			Max.	°CDB		45	
Control systems	Infrared remote control					no	
	On-board control				no		

Electrical specifications				FWXM10ATV3(R)	FWXM15ATV3(R)	FWXM20ATV3(R)
Power supply	Phase				1	
	Frequency		Hz		50	
	Voltage		V		230	
Electrical power consumption	Max.		W	19	20	29
	Standby		W	3	4	5
Current	Maximum running current		A	0.16	0.18	0.26

							
			FWXV10ABTV3(R)	FWXT10ABTV3(C)(L)(CL)	FWXM10ATV3(R)	FWXM15ATV3(R)	FWXM20ATV3(R)
			FWXV15ABTV3(R)	FWXT15ABTV3(C)(L)(CL)			
			FWXV20ABTV3(R)	FWXT20ABTV3(C)(L)(CL)			
Description	**Picture**	**Material name**					
On-board electronic control SMART TOUCH with PID full modulating fan and thermostat		EKRTCTRL1	•				
On-board electronic control SMART TOUCH 4 speeds with thermostat		EKRTCTRL2	•				
On-board 4 speeds control switch to be combined with Daikin compatibe thermostats		EKPCBO	•		•	•	•
On board 4 speeds control box to be combine with 4 speed thermostats		EKPCB4S	•		•	•	•
On board 1-10V control box to be combine with 1-10V thermostats		EKPCB10	•		•	•	•
On-board controller for EKWHCTRL1		EKWHCTRL0	•		•	•	•
SMART LCD wall controller with temperature probe, white casing		EKWHCTRL1	•	• (excl. FWXT-ABTV3(C/CL)	•	•	•
SMART LCD wall controller with temperature probe, white casing, including indoor air quality sensor		EKWHCTRL1A	•				
IR remote control				Standard (only FWXT-ABTV3(C/CL))			
Fresh air damper kit		EKFCD80	•				
Aesthetical feet		EKFA	•				
Motorised 2-way valve (FWXV/M)		EK2VK0	•		•	•	•
Motorised 2-way valve (FWXT)		EKT2VK0		•			
Motorised 3-way valve (FWXV/M)		EK3VK1	•		•	•	•
Motorised 3-way valve (FWXT)		EKT3VK1		•			
L-bow 90 °C		EKEUR90	•		•	•	•
Extension piece		EKDIST	•		•	•	•
Condensate collector tray for horizontal installation		EKM10COH	•				
		EKM15COH	•				
		EKM20COH	•				
Metal casing		EKM10CS			•		
		EKM15CS				•	
		EKM20CS					•
Front cover for ceiling installation		EKM10CH			•		
		EKM15CH				•	
		EKM20CH					•
Front cover for wall installation		EKM10CV			•		
		EKM15CV				•	
		EKM20CV					•
Air intake fitting		EKM10DH			•		
		EKM15DH				•	
		EKM20DH					•
90 °C exhaust bend (Horizontal)		EKM10D90			•		
		EKM15D90				•	
		EKM20D90					•
Telescopic air flow duct		EKM10DT			•		
		EKM15DT				•	
		EKM20DT					•
Aluminum air intake grille with straight airflow		EKM10IS			•		
		EKM15IS				•	
		EKM20IS					•
Straight airflow vent		EKM10SV			•		
		EKM15SV				•	
		EKM20SV					•
Aluminum air intake grille with curved airflow		EKM10IC			•		
		EKM15IC				•	
		EKM20IC					•
Aluminum air outlet grille with curved airflow		EKM10CA			•		
		EKM15CA				•	
		EKM20CA					•



Daikin Altherma ST - Solar heating systems

- Solar panels for pressurised use and Drain-back system 320
- Solar panel - pressurised system 322
- Solar panels - drain-back system 324
- Solar collector 327
- Pump station 327

Daikin Altherma ST

Maximising renewable energy



Why choose a Daikin Altherma ST solar panel?

Daikin's solar panels are designed to complement a variety of heating systems to garner more renewable energy to deliver hot water to your home.

☑ Comfort

- Flexible solar system for pressureless (drain-back) and pressurised solar systems
- Hot tap water and heating support generated by solar energy
- Highly efficient flat solar panels that are available in 3 installation options:
  - On roof
  - In-roof
  - Flat roof

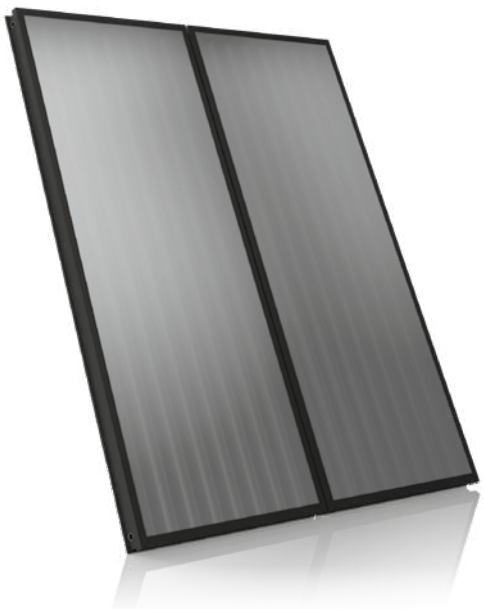
☑ Energy efficiency

ECH_2O thermal store range:
Hot water savings with solar energy
Reduce your energy costs by taking advantage of the sun's renewable energy with our solar hot water systems. Built for small and large homes, individuals can choose between a pressureless or pressurised hot water system.

☑ Reliability

Keymark Certificate

- Daikin's solar collectors have been awarded the Solar Keymark certification. Recognised across Europe, the Keymark for solar thermal products helps users select quality solar collectors. In most European countries this certification is mandatory for the products to be eligible for subsidies



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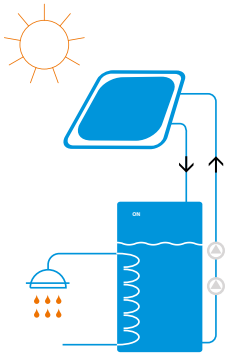
The Drain-Back solar system

How is it working?

- Starting the pump station engages the filling of the primary network and ensures the energy transfer from the solar collectors to the thermal store.
- Whenever the pump station stops working, the water contained in the collectors goes down back to the thermal store
- The air intake allowing the draining is ensured by an orifice always placed out of water (at atmospheric pressure)
- Thanks to this unique way of working, no safety devices, safety valves, expansion vessels, anti-return valve or glycol are necessary

Advantages

- 0 % glycol: the liquid carrying the heat is only the water inside the system
- Self-working system with the pump station modulations depending the temperatures inside the collectors and the thermal store
- Automatic management of the defrost mode and avoidance of overheating mode
- No commissioning on the solar system, no replacement of the heat-carrying liquid



The pressurised solar system

How is it working?

- The heat-carrying liquid is mixed with glycol to avoid freezing in the solar collectors system
- Whenever the solar collectors reach an useful temperature level, the system provides a continuous supply of energy
- The energy from the collectors is returned to the thermal store thanks to the coil

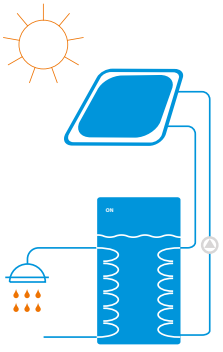
Advantages

Monovalent

- The solar system is used as first heating source and can be coupled with a wall mounted boiler. The cold water is first pre-heated in the thermal store and the boiler can provide additional heat instantaneously if needed

Bivalent

- The solar system integrates a backup heater. The domestic hot water is directly produced in the thermal store. The additional heater ensures the back-up in case of low sunshine



Solar panel - Overview EKSV21P - small vertical model

Material list for standard solar panel systems for hot water preparation and heating support EKSV21P

Solar panel
EKSV21P



Number of solar panels Type of installation Article	Type	Order No.	2 On-roof Quantity	2 In-roof Quantity	3 On-roof Quantity	3 In-roof Quantity	4 On-roof Quantity	4 In-roof Quantity	5 On-roof Quantity	5 In-roof Quantity
Solar panel	EKSV21P	16 20 12-RTX	2	2	3	3	4	4	5	5
Solar panel connection	FIX-VBP	16 20 16-RTX	1	1	2	2	3	3	4	4
Installation rail for individual solar panel	FIX MP 100	16 20 66	2	2	3	3	4	4	5	5
On-roof installation kit for one solar panel DB+P) (2 roof hooks per kit)	FIX-ADDP	16 20 85	42)	0	62)	0	82)	0	102)	0
In-roof installation package, basic storage for two solar panel	IB EKSV21P	16 20 17	0	1	0	1	0	1	0	1
In-roof installation package, additional storage for central solar panel	IE EKSV21P	16 20 18	0	0	0	1	0	2	0	3

Material list standard solar panels with Drain-back system

Type of installation	Type	Order No.	On-roof Quantity	In-roof Quantity
Control and pump unit	RPS 4	EKSRPS4A	1	1
Support for connecting pipe solar panel	TS	16 42 45	1	1
Connection pipe solar panel	CON 15	16 47 32	1	1
Roof penetration pack solar panel on-roof	EKSRCAP EKSRCRP	EKSRCAP anthracite EKSRCRP red	1	0
Installation accessories, solar panel in-roof	RCIP	16 20 37-RTX	0	1

Nominal volume, complete system				
Number of solar panels	2	3	4	5
Connecting line 15 m	DN 16	DN 16	DN 20	DN 20
Nominal system volume (L)	20.2	21.5	22.8	24.1

Material list solar panels with pressurised system [1)]

Number of solar panels Article	Type	Order No.	up to 2 Quantity	up to 3 Quantity	4 to 5 Quantity
Controller	EKSDSR1A	EKSDSR1A	1	1	1
Pressure station solar panel	EKSRDS2A	EKSRDS2A	1	1	1
Solar panel pressurised solar line DN16 15 m	CON 15P16	16 20 73	1	1	0
Solar panel pressurised solar connection kit DN16	CON CP16	16 20 75	1	1	0
Solar panel pressurised solar line DN20 15 m	CON 15P20	16 20 74	0	0	1
Solar panel pressurised solar connection kit DN20	CON CP20	16 20 76	0	0	1
Solar panel expansion vessel 12 L *	MAG S12	16 20 70	1	0	0
Solar panel expansion vessel 25 L *	MAG S 25	16 20 50	0	1	0
Solar panel expansion vessel 35 L *	MAG S 35	16 20 51	0	0	1
Installation material solar panel with pressure system [1)]	RCP	EKSRCP	1	1	1

DB Drain-back system

P Pressurised system

DB) Only required for installations with drain-back system.

P) Only required for pressurised installations.

* Standard recommendation, after detailed expansion vessel calculation, other expansion vessels may be necessary.

1) The roof penetration for on-roof and flat roof installation is to be provided by the customer.
The solar fluid must be ordered separately.

2) The number of roof hooks must be checked if necessary (see installation instructions ADM).

Solar panel - Overview EKSV26P - standard vertical model

Material list for standard solar panel systems for hot water preparation and heating support EKSV26P

Solar panel
EKSV26P



Number of solar panels Type of installation / Article	Type	Order No.	2 On-roof Quantity	2 In-roof Quantity	2 Flat roof Quantity	3 On-roof Quantity	3 In-roof Quantity	3 Flat roof Quantity	4 On-roof Quantity	4 In-roof Quantity	4 Flat roof Quantity	5 On-roof Quantity	5 In-roof Quantity	5 Flat roof Quantity
Solar panel	EKSV26P	EKSV26P	2	2	2	3	3	3	4	4	4	5	5	5
Solar panel connection	FIX-VBP	16 20 16 - RTX	1	1	1	2	2	2	3	3	3	4	4	4
Mounting rail single collector	FIX MP 130	16 20 67	2	2	2	3	3	3	4	4	4	5	5	5
On-roof installation pack for one solar panel DB+P) (2 roof hooks per kit)	FIX-ADDP	16 20 85	42)	0	0	62)	0	0	82)	0	0	102)	0	0
In-roof installation kit, basic flashing for two solar panels	IB V26P	16 20 19	0	1	0	0	1	0	0	1	0	0	1	0
In-roof installation pack, additional flashing for central solar panel	IE V26P	16 20 20	0	0	0	0	1	0	0	2	0	0	3	0
Flat-roof frame, basic pack for two solar panels	FB V26P	16 20 58	0	0	1	0	0	1	0	0	1	0	0	1
Flat-roof frame, expansion pack additional solar panel	FE V26P	16 20 59	0	0	0	0	0	1	0	0	2	0	0	3

Material list standard solar panels
with Drain-back system

Number of solar panels Installation type / Article	Type	Order No.	On-roof Quantity	In-roof Quantity	Flat roof Quantity
Control and pump unit	EKSRPS4A	EKSRPS4A	1	1	1
Additional support troughs for connecting pipe solar panel	TS	16 42 45	1	1	1
Connection pipe solar panel	CON 15	16 47 32	1	1	1
Roof penetration pack solar panel on-roof	EKSRCAP EKSRCRP	EKSRCAP Anthracite EKSRCAP Red	1	0	0
Installation accessories, solar panel in-roof	RCIP	16 20 37-RTX	0	1	0
Roof penetration pack solar panel flat roof	RCFP	16 20 38-RTX	0	0	1

Material list solar panels with pressurised system [1)]

Number of solar panels Installation type / Article	Type	Order No.	up to 2 Quantity	up to 3 Quantity	4 to 5 Quantity
Controller	EKSDSR1A	EKSDSR1A	1	1	1
Pressure station solar panel	EKSRDS2A	EKSRDS2A	1	1	1
Solar panel pressurised solar line DN16 15 m	CON 15P16	16 20 73	1	1	0
Solar panel pressurised solar connection kit DN16	CON CP16	16 20 75	1	1	0
Solar panel pressurised solar line DN20 15 m	CON 15P20	16 20 74	0	0	1
Solar panel pressurised solar connection kit DN20	CON CP20	16 20 76	0	0	1
Solar panel expansion vessel 12 L *	MAG S12	16 20 70	1	0	0
Solar panel expansion vessel 25 L *	MAG S 25	16 20 50	0	1	0
Solar panel expansion vessel 35 L *	MAG S 35	16 20 51	0	0	1
Installation material solar panel with pressure system [1)]	RCP	EKSRCP	1	1	1

Nominal volume, complete system				
Number of solar panels	2	3	4	5
Connecting line 15 m	DN16	DN16	DN20	DN20
Nominal system volume (L)	21	22.7	24.4	26.1

Solar panel - Overview EKSH26P - standard horizontal model

Material list for standard solar panel systems for hot water preparation and heating support EKSH26P

Solar panel
H26 P



Number of solar panels Type of installation Article	Type	Order No.	1 On-roof Quantity	1 Flat roof Quantity	2 On-roof Quantity	2 Flat roof Quantity	3 On-roof Quantity	3 Flat roof Quantity	4 On-roof Quantity	4 Flat roof Quantity	5 On-roof Quantity	5 Flat roof Quantity
Solar panel	EKSH26P	EKSH26P	1	1	2	2	3	3	4	4	5	5
Solar panel connection	FIX-VBP	16 20 16 - RTX	0	0	1	1	2	2	3	3	4	4
Installation rail guide for individual solar panel	FIX MP 200	16 20 68	1	1	2	2	3	3	4	4	5	5
On-roof installation pack for one solar panel P) (4 roof hooks per kit)	FIX-ADDP	16 20 85	22)	0	42)	0	62)	0	82)	0	102)	0
Flat roof support frame basic kit for one solar panel	FB H26P	16 20 60	0	1	0	1	0	1	0	1	0	1
Flat roof trestle Extension pack for one additional solar panel	FE H26P	16 20 61	0	0	0	1	0	2	0	3	0	4

Nominal volume, complete system				
Number of solar panels	2	3	4	5
Connecting line 15 m	DN16	DN16	DN 0	DN20
Nominal system volume (L)	21.6	23.9	26	28.1

Material list solar panels with pressurised system 1)

Number of solar panels Installation type / Article	Type	Order No.	up to 3 Quantity	4 to 5 Quantity
Pressurised thermal store	EKHWP500PB	EKHWP500PB	1	1
Controller	EKSDSR1A	EKSDSR1A	1	1
Pressure station solar panel	EKSRDS2A	EKSRDS2A	1	1
Solar panel pressurised solar line DN16 15 m	CON 15P16	16 20 73	1	0
Solar panel pressurised solar connection kit DN16	CON CP16	16 20 75	1	0
Solar panel pressurised solar line DN20 15 m	CON 15P20	16 20 74	0	1
Solar panel pressurised solar connection kit DN20	CON CP20	16 20 76	0	1
Solar panel expansion vessel 12 L *	MAG S12	16 20 70	0	0
Solar panel expansion vessel 25 L *	MAG S 25	16 20 50	1	0
Solar panel expansion vessel 35 L *	MAG S 35	16 20 51	0	1
Installation material solar panel with pressure system 1)	RCP	EKSRCP	1	1

Pressurised system

DB) Only required for installations with drain-back system.

P) Only required for pressurised installations.

* Standard recommendation, after detailed expansion vessel calculation, other expansion vessels may be necessary.

1) The roof penetration for on-roof and flat roof installation is to be provided by the customer. The solar fluid must be ordered separately.

2) The number of roof hooks must be checked if necessary (see installation instructions ADM).

Solar panel - Overview EKSV26P - standard vertical model

List of materials for solar components that connect several storage tanks

DB

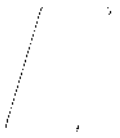
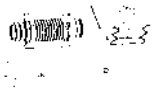
Total number of storage tanks Article	Type	Order No.	2 Quantity	3 Quantity
Solar panel storage tank extension kit	CON SX	16 01 20	1	1
Solar panel storage tank extension kit 2	CON SXE	16 01 21	0	1

Solar panels for pressurised use and Drain-back system

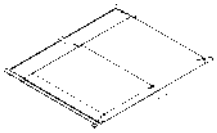
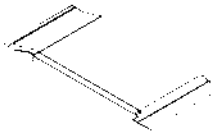
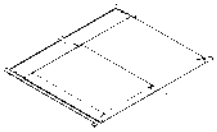
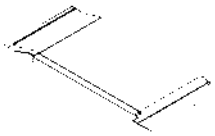
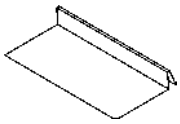


High-efficiency flat solar panels

Stable watertight solar panel frame made of black anodised aluminium, highly special coating and safety glass, low-reflection, efficient heat insulation of the solar panel back plane with mineral wool. The minimum efficiency of the solar panel is more than 525kWh/m² per year (location: Würzburg, Germany). Suitable for drain-back and pressurised systems.

		Article	Type	Order No.
High-efficiency flat solar panel EKSV21P		(2,000 x 1,006 x 85 mm), solar panel area 1.79 m², Weight 35kg, water content 1.3 l. Max. 6 bar.	EKSV21P	EKSV21P
High-efficiency flat solar panel EKSV26P		(2,000 x 1,300 x 85 mm), solar panel area 2.35 m², Weight 42kg, water content 1.7 l. Max. 6 bar.	EKSV26P	EKSV26P
High-efficiency flat solar panel EKSH26P		(1,300 x 2,000 x 85 mm), solar panel area 2.35 m², Weight 42kg, water content 2.1 l. Max. 6 bar.	EKSH26P	EKSH26P
Solar panel connection		Installation profile connector, expansion joints and double clamping blocks.	FIX-VBP	16 20 16-RTX
Installation profile rail for EKSV21P		Consisting of installation profile rails and solar panel securing clips.	FIX MP 100	16 20 66
Installation profile rail for EKSV26P		Consisting of installation profile rails and solar panel securing clips.	FIX MP 130	16 20 67
Installation profile rail for EKSH26P		Consisting of installation profile rails and solar panel securing clips.	FIX MP 200	16 20 68
Support for connecting pipe solar panel		Support troughs (5 in number, length, in each case, 1.3 m) for support of the solar panel plastic connection lines in Drain-Back.	TS	16 42 45
On-roof installation pack slate		4 roof hooks for flat roofing, e.g. slate, for one solar panel.	FIX ADS	16 47 23
On-roof installation pack MULTI		2 height-adjustable roof hooks for drain-back and pressure system, including mounting materials.	FIX-ADDP	16 20 85
Roof holder for corrugated covering		4 holders including fixing material for one solar panel.	FIX-WD	16 47 03-RTX
Roof holder for welded sheet metal covering		4 holders including fixing material for one solar panel. Note: for on-roof installation only.	FIX-BD	16 47 04-RTX

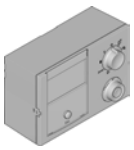
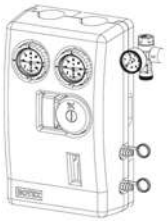
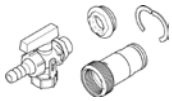
Solar panels for pressurised use and Drain-back system

		Article	Type	Order No.
Basic in-roof assembly package EKSV21P		Basic flashing for two solar panels, duct set including installation material. Minimum roof gradient 15°.	IB V21P	16 20 17
Extension kit in-roof mounting EKSV21P		Additional package for an additional solar panel, duct set including installation material. Minimum roof gradient 15°.	IE V21P	16 20 18
Basic in-roof mounting pack EKSV26P		Basic flashing for two solar panels, duct set including installation material. Minimum roof gradient 15°.	IB V26P	16 20 19
Expansion in-roof mounting pack EKSV26P		Additional package for an additional solar panel, duct set including installation material. Minimum roof gradient 15°.	IE V26P	16 20 20
In-roof covering slate supplementary pack		30 layer pieces for flat coverings, e.g. slate (per basic in-roof pack you will need one supplementary pack).	FIX-IES	16 46 16-RTX
Basic pack flat-roof frame for mounting of two EKSV26P solar panels on flat roofs		Pre-assembled system for simple and rapid installation, adjustable gradient (30° to 60°). Suitable for wind load zone WLZ 2 (only to a limited extent for WLZ 3).	FB V26P	16 20 58
Extension pack flat-roof frame for one additional EKSV26P solar panel		Extension for FB V26P.	FE V26P	16 20 59
Basic pack flat-roof frame for mounting of one EKSH26P collector on flat roofs		Pre-assembled system for simple and rapid installation, adjustable gradient (30° to 60°). Suitable for wind load zone WLZ 2 (only to a limited extent for WLZ 3).	FB H26P	16 20 60
Extension pack flat-roof frame for one additional EKSH26P solar panel		Extension for FB H26P.	FE H26P	16 20 61
Disassembly tools ducts drain-back system			FIX LP	16 20 29-RTX

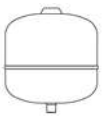
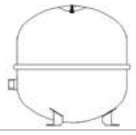
DB Drain-back system

P Pressurised system

Solar panel - pressurised system

		Article	Type	Order No.
Controller		Temperature-difference regulator for the solar panel with pressure system. Regulator with graphic display for representation of hydraulic schematics and yield balances, for example. Including return flow and storage tank temperature sensor and housing for wall mounting.	EKSDSR1A	EKSDSR1A
Pressure station		Consists of: Pipe connection ø 22 mm including pipe compression fittings and support sleeves (5x), flow measurement unit with 2 x KFE cock, integrated air separator, ball-cocks with integrated back-flow prevention, Grundfos Solar 25-65 pump, safety group with pressure gauge, including insulation and installation accessories.	EKSRDS2A	EKSRDS2A
Fill and drain connection		For RPS3 and tanks from 2013 onwards, for easy filling and emptying through the fill and drain valve.	KFE BA	16 52 15
Solar panel pressurised solar line DN 16		15 m thermally-insulated stainless steel corrugated pipe line for solar panel pressurised systems with inserted sensor line nominal size DN 16. For systems of up to 3 solar panels and a line length of up to 25 m. Without connection fittings.	CON 15P16	16 20 73
Solar panel pressurised solar connection kit DN 16		All necessary fittings for connecting the pressurised solar line DN 16. Required together with CON 15P16.	CON CP16	16 20 75
Solar panel pressurised solar connection kit DN 16		Fittings for connecting two pressurised solar lines DN 16.	CON XP16	16 20 71
Solar panel pressurised solar line DN 20		15 m thermally-insulated stainless steel corrugated pipe line for solar panel pressurised systems with inserted sensor line nominal size DN 20. For systems up to 5 solar panels and a line length of up to 25 m. Without connection fittings.	CON 15P20	16 20 74
Pressurised solar connection kit DN 20		All necessary fittings for connecting the pressurised solar line DN 20. Always required together with CON 15P20.	CON CP20	16 20 76
Solar panel pressurised solar connection kit DN 20		Fittings for connecting the pressurised solar line DN 20.	CON P20	16 20 72
Installation material solar panel pressurised system		Connection fittings for pressurised systems and solar panel installation material, consisting of installation material for solar panel and connection pipe, 2 m UV-proof thermal insulation for the outer area, connection fittings and panel temperature sensor. The roof penetration must be provided to the customer.	RCP	EKSRCP
Solar panel row connection for the solar panel with pressure system		Connection kit for connecting two rows of solar panels in parallel. Consisting of solar panel installation material, equipotential bonding terminals, end caps, connection elbows and 1 m thermally-insulated piping.	CON LCP	16 20 45

Solar panel - pressurised system

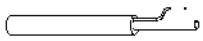
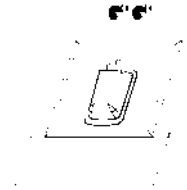
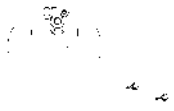
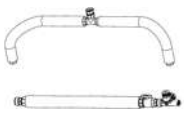
	Article		Type	Order No.
Expansion vessel 12 L with connection block		For solar panels with pressure systems of max. 2 x EKSV21P - solar panels.	MAG S12	16 20 70
Expansion vessel 25 L with connection block		For solar panels with pressure systems of max. 3 solar panels.	MAG S 25	16 20 50
Expansion vessel 35 L with connection block		For solar panels with pressure systems of max. 5 solar panels.	MAG S 35	16 20 51-RTX
GLYCOL CORACON SOL 5F		20 L can of pre-mixed solar fluid, functional range up to -28 °C.	CORACON SOL 5F	16 20 52-RTX
Fill and draining valve				16 41 17
GLYCOL CORACON SOL 5		1 L of solar fluid concentrate for extension of the frost range. With 20 L of solar fluid with 1 L additive, the use range extends down to -33 °C. For 20 L of solar fluid with 2x 1 L of additive, the functional range is extended to -38 °C.	CORACON SOL 5	16 20 53
Circulation lance		For energetically-optimised incorporation of the domestic hot water circulation in the hot water connection of the warm-water storage tank.	ZKL	16 51 13
Thermostatic mixer as scalding protector		Thermal safety device for the domestic water pipe. Setting range 35-60 °C.	VTA32	15 60 15
Screw connection kit 1''		For connection of the scald protection VTA32.		15 60 16
Thermostatic regulator 230V		With capillary tube temperature sensor, setting range 35-85 °C.	SCS-TR	16 41 30
3-way switching valve 1" male		With motor drive 230V, switchover time 6 sec.	3 W-UV	15 60 34

Solar panels - drain-back system

DB

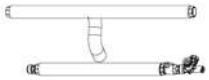
Article		Type	Order No.
EKSRPS4 regulation and pump unit	Ready to plug in unit (230V), with digital differential temperature regulation, return and storage tank temperature sensors, high-efficiency circulation pump. INFO: The flow sensor (FLS 20), included in the supply, provides more effective operation of the EKSRPS4. In addition to direct calculation of the heat output, the sensor allows modulation of the operating pump and thus an additional saving in electrical energy.	EKSRPS4	EKSRPS4A
Additional pump set RPS4			164243
Fill and tap connection solar panel with drain-back system	For easy filling of solar panels with drain-back system from 2013 onwards through the solar flow connector.	KFE DB BA	16 52 16
Burner blocking contact connection cable	For RPS2, RPS3, RPS3 M, RPS3 25M.	BSKK	16 41 10-RTX
Solar panel FlowGuard solar flow regulator	With solar flow indicator 2-16 l/min.	FLG	16 41 02-RTX
Connection tube solar panel	Ready to connect connection line 15 m between solar panel and pump station, consisting of thermally-insulated flow and return line with integrated sensor cable.	CON 15	16 47 32
Connection tube solar panel	Ready to connect connection line 20 m between solar panel and pump station, consisting of thermally-insulated flow and return line with integrated sensor cable.	CON 20	16 47 33
Solar panel solar flow sensor 100	Sensor for expanding RPS3 25M control system, enables heat yield metering in large installations. Measuring range up to 100 l/min.	FLS 100	16 41 03-RTX
Extension	For connecting a collector array (EKSV21P, EKSV26P, EKSH26P) to the on-site rigid copper connection pipes when using roof penetration box kits EKSRCAP, EKSRCRP, RCIP, RCFP.	CON X20 25M	16 42 31

Solar panels - drain-back system

		Article	Type	Order No.
Extension connection tube solar panel		Ready to plug in including installation material and connection fittings L = 2.5 m L = 5.0 m L = 10.0 m Maximum possible length of the connection pipe: Number of solar panels / Max. length 2 / 45 m 3 / 30 m 4 / 17 m 5 / 15 m	CON X 25 CON X 50 CON X 100	16 42 61 16 42 62 16 42 63
Extension of the inflow pipe		UV-resistant thermally-insulated, length = 8 m, including cable connecting fitting for the solar panel sensor line.	CON XV 80	16 42 64
On-roof roof penetration, anthracite		Roof penetration pack with connection fittings and solar panel installation material, consisting of anthracite roof penetration, installation material for solar panel and connection pipe, 2 m UV-proof heat insulation for the outer area, connection fittings with detaching tools and panel temperature sensor.	EKSRCAP	EKSRCAP
On-roof roof penetration, tile red		Roof penetration pack with connection fittings and solar panel installation material, consisting of tile red roof penetration, installation material for solar panel and connection pipe, 2 m UV-proof heat insulation for the outer area, connection fittings with detaching tools and panel temperature sensor.	EKSRCRP	EKSRCRP
Solar panel panel row connection		Connection kit for connecting two rows of solar panels one above the other. Consisting of solar panel installation material, equipotential bonding terminals, end caps, connection elbows and 1 m thermally-insulated piping.	CON RVP	16 20 35-RTX
Installation material, solar panel in-roof		Ready to plug in including installation material and connection fittings.	RCIP	16 20 37-RTX
Roof penetration, flat roof		Roof penetration pack with connection fittings and solar panel installation material, consisting of flat-roof roof penetration, installation material for solar panel and connection pipe, 8.5 m UV-proof heat insulation for the outer area, connection fittings with detaching tools and panel temperature sensor.	RCFP	16 20 38-RTX
Roof penetration flat-roof for alternate side solar panel connection		Flat roof penetration with screw connections and blind plugs for penetration openings which are not used.	CON FE	16 47 09
Solar panel boiler extension kit		Connection kit for the connection of two warm-water storage tanks, consisting of drain-back connection tube and lead supply line.	CON SX	16 01 20

Solar panels - drain-back system

DB

		Article	Type	Order No.
Solar panel storage tank extension kit 2		Connection kit for the connection of additional warm-water storage tanks, consisting of drain-back connection tube and lead supply line.	CON SXE	16 01 21
Circulation lance		For energetically-optimised incorporation of the tap-water circulation in the hot water connection of the warm-water storage tank.	ZKL	16 51 13
Thermostatic mixer as scalding protector		Thermal safety device for the warm-water pipe. Setting range 35-60 °C.	VTA32	15 60 15
Screw connection kit 1''		For connection of the scald protection VTA32.		15 60 16
Thermostatic regulator 230V		With capillary tube temperature sensor, setting range 35-85 °C.	SCS-TR	16 41 30
3-way switching valve 1" male		With motor drive 230V, switch-over time 6 sec.	3 W-UV	15 60 34
Collector connector (connect B)				164201-RTX
Connector 18/18				164233-RTX
Connector 15/15				164234-RTX
Plug-in coupling for RPS4 22/15				164237-RTX

Solar collector

Thermal solar collector for hot water production

- Solar collectors can produce up to 70% of the energy needed for hot water production - a major cost saving
- Horizontal solar collector for domestic hot water production
- Vertical solar collector for domestic hot water production
- High efficiency collectors transfer all the short-wave solar radiation into heat as a result of their highly selective coating
- Easy to install on roof tiles
- Can be used for drain-back and pressurised applications



EKSV21P

EKSV-P EKSH-P

Accessory				EKSV21P	EKSV26P	EKSH26P
Mounting				Vertical		Horizontal
Dimensions	Unit	HeightxWidthxDepth	mm	2,000x1,006x85	2,000x1,300x85	1,300x2,000x85
Weight	Unit		kg	33	42	
Volume			L	1.30	1.70	2.10
Surface	Outer		m^2	2.01	2.60	
	Aperture		m^2	1,800	2,360	
	Absorber		m^2	1.80	2.36	
Coating				Micro-therm (absorption max. 96%, Emission ca. 5% +/-2%)		
Absorber				Harp-shaped copper pipe register with laser-welded highly selective coated aluminium plate		
Glazing				Single pane safety glass, transmission +/- 92%		
Allowed roof angle	Min. ~ Max.		°	15 ~ 80		
Operating pressure	Max.		bar	6		
Stand still temperature	Max.		°C	192		
Thermal performance	Collector efficiency (ηcol)		%	53		
	Zero loss collector efficiency η0		%	0.71		
	Heat loss coefficient a1		$W/m^2.K$	4,300		
	Temperature dependence of the heat loss coefficient a2		$W/m^2.K^2$	0.006		
	Thermal capacity		kJ/K	4.90	6.50	

EKSRPS4A/EKSRDS2A

Pump station

- Save energy and reduce CO_2 emissions with a solar system for domestic hot water production
- Pump station connectable to drain-back solar system
- Pump station and control provide the transfer of solar heat to the domestic hot water tank

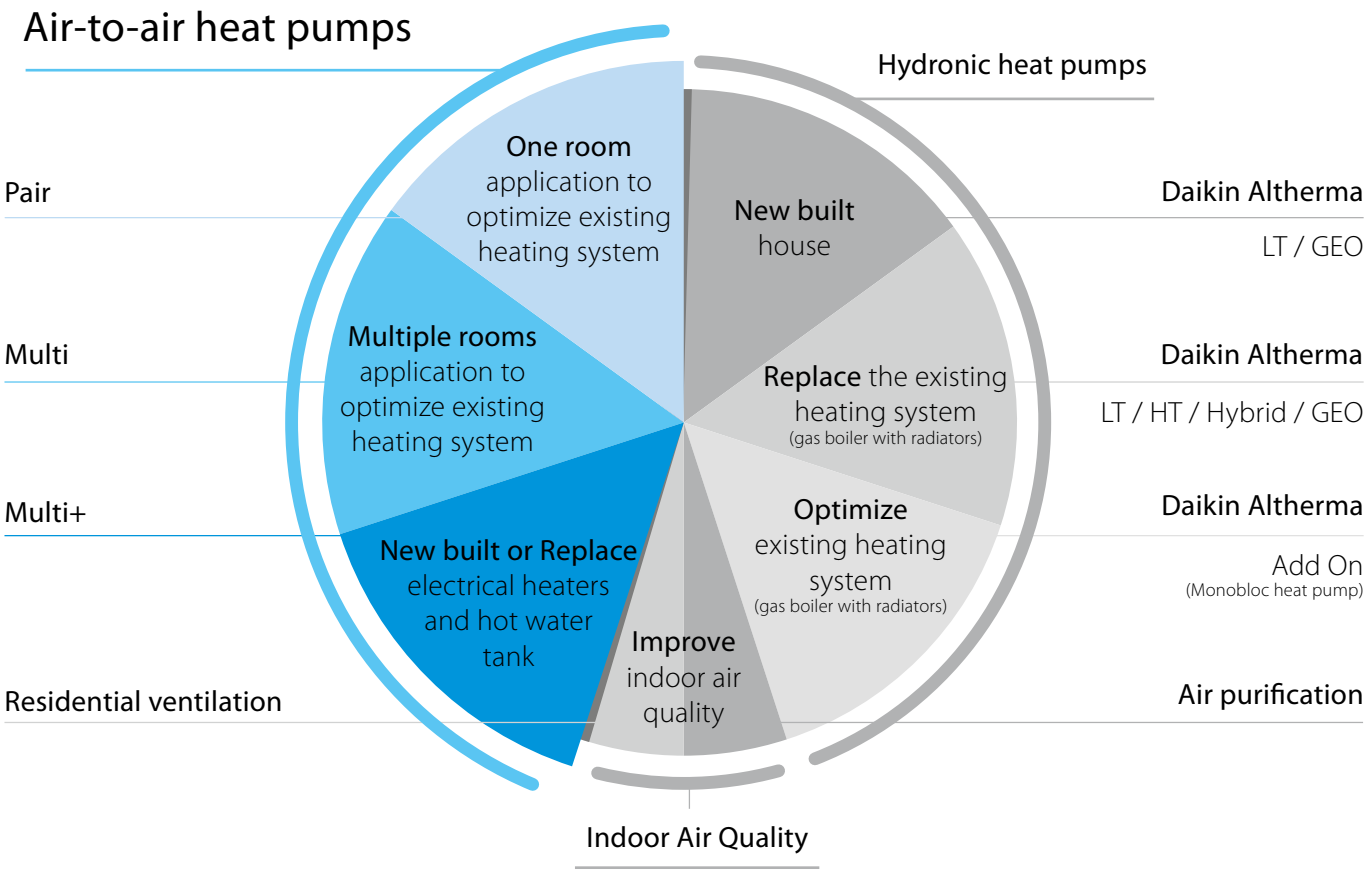


EKSRPS4A

EKSRPS4A EKSRDS2A

Accessory				EKSRPS4A	EKSRDS2A
Mounting				On side of tank	On wall
Dimensions	Unit	HeightxWidthxDepth	mm	815x142x230	410x314x154
Weight	Unit		kg	6.40	6
Operation range	Ambient temperature	Min. ~ Max.	°C	5 ~ 40	- ~ 40
Operating pressure	Max.		bar	-	6
Stand still temperature	Max.		°C	85	120
Control	Type			Digital temperature difference controller with plain text display	
	Power consumption		W	2	5
Sensor	Solar panel temperature sensor			Pt1000	
	Storage tank sensor			PTC	-
	Return flow sensor			PTC	-
	Feed temperature and flow sensor			Voltage signal (3.5V DC)	-
Power supply	Phase/Frequency/Voltage		Hz/V	1 ~/50/230	-/50/230
Power supply intake				Indoor unit	
Auxiliary	Solpump		W	37.3	23
	Annual auxiliary electricity consumption Qaux		kWh	92.1	89
	Solstandby		W	2.00	5.00

Residential air-to-air heat pump **solutions** according to your customer's needs



8 reasons
to buy a Daikin (multi-)split system

- **Best performance** and **highest energy** efficiencies in cooling and heating
- Best comfort throughout the year, thanks to the **intelligent sensors** and **airflow techniques**
- Reliability thanks to **best technologies and service**
- **Connectivity**: remote monitoring and WLAN available
- Multi connection up to **5 ports**
- Top indoor air quality through **unique filtration**
- **Highest quality standards**: from parts to production
- Iconic and **award-winning** design

Residential air to air solutions

Why choose a Daikin split system? 330

Product range overview 348

Benefits overview 350

R-32 standard range 352

Wall mounted units 352

- Ururu Sarara / DAIKIN emura FTXZ-N / RXZ-N UNIQUE 352
- DAIKIN emura FTXJ-AW/S/B9 / RXJ-A9 UPDATE 354
- stylish C/FTXA-CW/S/B / RXA-A8/B8 358
- perfera C/FTXM-A / RXM-A(9/8) UPDATE 364
- comfora FTXP-N(9)/RXP-N(9/8) NEW 365
- sensira FTXF-F/RXF-F/D9 NEW 366
- sensira FTXC-E/RXC-E NEW 367

Floor standing units 368

- C/FVXM-B / RXM-A9/8 UPDATE 370

Concealed ceiling units 371

- FDXM-F9 / RXM-A9/8 UPDATE 371

Multi outdoor units 372

- 2MXM40-50-68A9 UNIQUE 373
- 3MXM40-52-68A9 UNIQUE 373
- 4MXM68-80A9 UNIQUE 373
- 5MXM90A9 UNIQUE 373

Multi+ outdoor units and tank 374

- 4MWXM52A9 376
- 5MWXM68-90A9 NEW 377
- EKHWET-BV3 UNIQUE 376
- CKHWS-BV3 NEW 377

Sensira multi outdoor units 378

- 2-3MXF-A(9) 378

Hybrid multi 379

- CHYHBH-AV32 / EHYKOMB-AA2/3 379

R-32 Siesta range 380

Siesta wall mounted units 380

- ATXM-A/ARXM-A(9/8) UPDATE 381
- ATXP-N9 / ARXP-N9 UPDATE 382
- ATXF-F / ARXF-F/A9 NEW 383
- ATXC-E/ ARXC-E NEW 384

Siesta multi outdoor units 385

- 2/3AMXM-M9/N9 385
- 2-3AMXF-A 386

R-32 Nepura range 388

Wall mounted units 390

- DAIKIN emura FTXTJ-AW/B / RXTJ-A 390
- stylish FTXTA-CW/B / RXTA-C 391
- perfera FTXTM-A / RXTM-A NEW 392
- comfora FTXTP-A / RXTP-A NEW 393

Floor standing units 394

- perfera FVXTM-B / RXTM-A UPDATE 394

Options & accessories 396

For latest data, please consult my.daikin.eu

What should you know from your customer to advise him with the best residential solution?

What is the best solution for your customer?

- The best solution for your customer is one which matches the requirements perfectly and is designed specifically for the house.
- Whether your customer is building a new house or renovating an old farm, Daikin offers specific solutions which optimise efficiency, depending on the size and layout.
- Combining heating, cooling, domestic hot water, with or without solar energy, anything is possible.

What is the best solution for your customer?

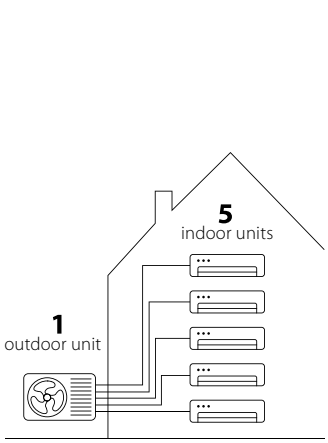
- Type of house: Multi family house / single family house / new built / insulation level / m^2
- Location of the house: city / country
- How many people live in the house?

What does your customer want to do?

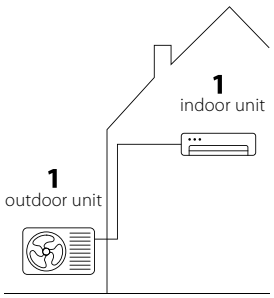


Air-to-air heat pumps

Hydronic heat pumps



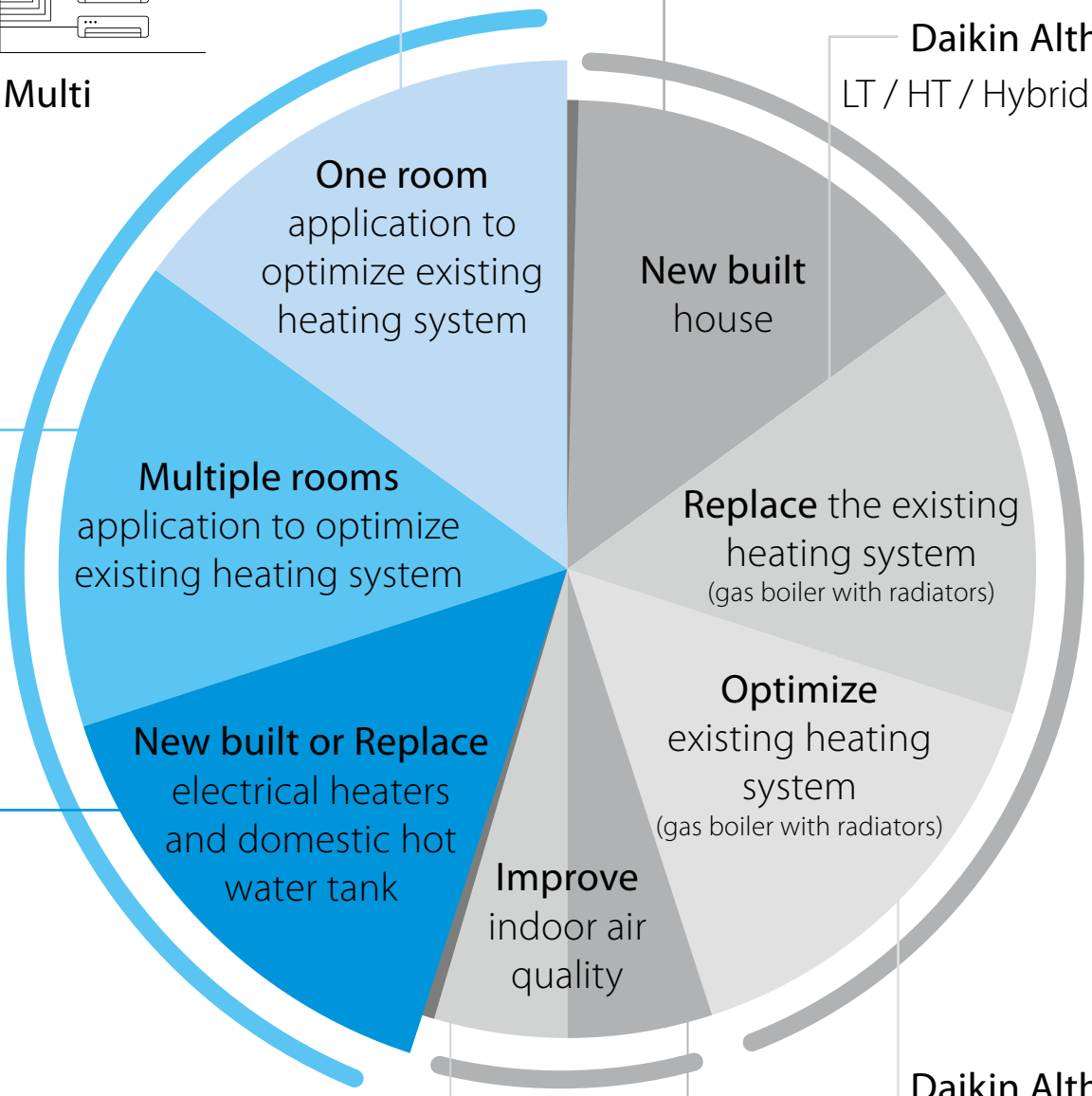
Multi



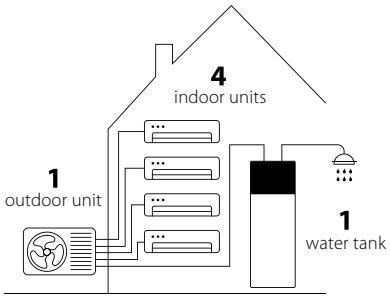
Pair

Daikin Altherma
LT / GEO

Daikin Altherma
LT / HT / Hybrid / GEO



Multi+



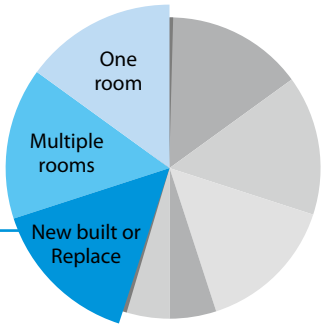
Daikin Altherma
Add On
(Monobloc heat pump)

Residential ventilation

Air purification

Indoor Air Quality

Why choose **Multi+**?

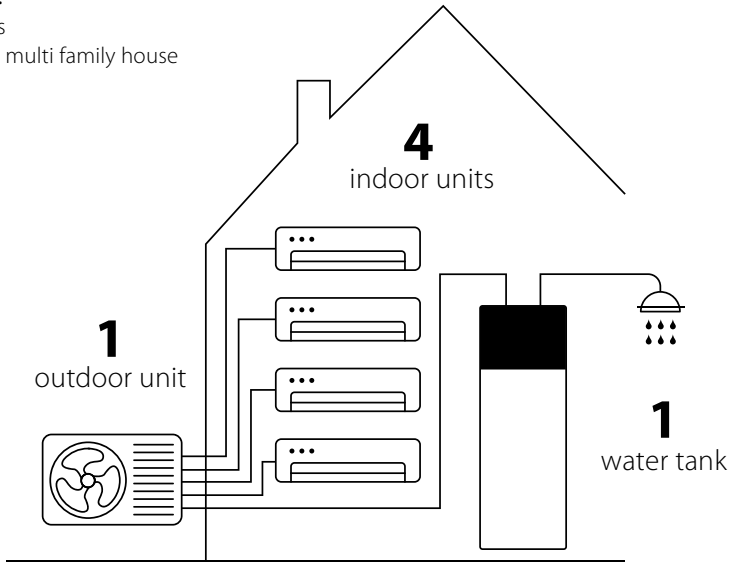


Your customer is considering to **replace the existing heating system** with electric heaters.

Replace the existing heating system (Electrical heaters) for **single & multi family houses**

Customer needs
Heating | Cooling | Domestic hot water

Your customer's house:
- Around 150 m² or less
- Located in a single or multi family house
- Max. 5 inhabitants



1 | Flexibility

- Connect Multi+ outdoor unit with up to 4 indoor units and a 90 L or 230 L tank to provide domestic hot water



Extend the system according to your needs

Choose from a market-leading variety of indoor units. You can connect up to four different indoor units to cool or heat your rooms.





2 | Efficiency

- Replacing an old air conditioning system and electric hot water tank by Multi+ will give your customer a good return on investment

Case study: second home by the sea
- Detached house / 70 m²
- Climate zone C (Naples) / Class D → A3

Savings € in one year

Heating **25%** | Cooling **43%** | Domestic hot water **75%** | **Total 46%**

Up to A+++ ↑ D
in heating

Up to A+++ ↑ D
in cooling

Up to A+ ↑ F
domestic hot water



Equipped with Bluevolution technology providing low environmental impact

Heating + Cooling: **Old Multisplit**
Domestic hot water: **Electric water heater**



Replacement

All-in-one
Multi+



Return on investment domestic hot water:
3 years

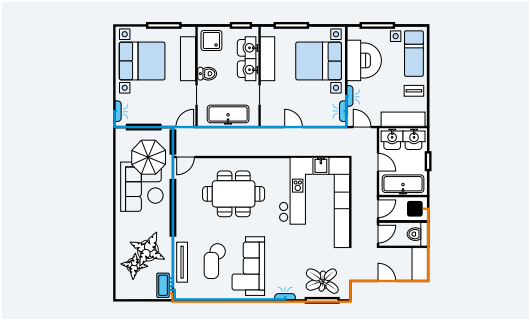
3 | Easy installation

Indoor and outdoor units: Choose which location is most appropriate for the indoor units and the outdoor unit. The physical installation, wiring, drain piping as well as the initial setup is done quickly and easily.

Tank: No need to change the existing piping of the current electric hot water tank: the water connections are easily accessible from the tank bottom (90 and 120l tank). Perfect for a simple and fast installation or maintenance.



Water inlet and hot water outlet
The water connections are easily accessible from the tank bottom. Perfect for a simple and fast installation or maintenance.*



4 | Full comfort offering heating, domestic hot water AND cooling

Replacing ineffective or outdated electric water heating systems in small households with a modern heat pump solution saves energy and offers a high level of comfort: not only heating and hot water, but also cooling with high efficiencies

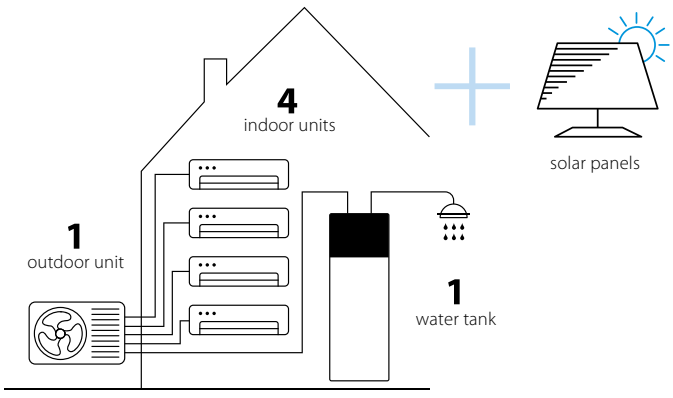
6 | Save more with photovoltaic solar panels

Thanks to HomeHub, tank optimisation is possible between the tank and photovoltaic solar panels. For example, with the accessory EKRHH, the electric heater of the tank will be switched on if injection is higher than 1.5 kW. Therefore, during sunny days, hot water will always be available, while the house is cooled.

5 | Control your units, wherever you are

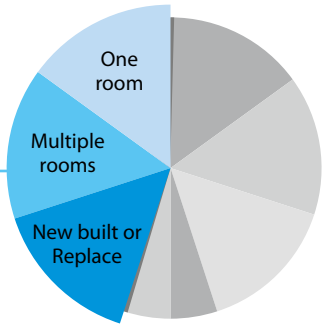
All indoor units are individually controllable with their supplied remote control or via the Onecta app. The Daikin Onecta app enables scheduling, controlling and monitoring of each air-to-air heat pump unit along with controlling and monitoring of the domestic hot water tank – also via voice control. Onecta is compatible with Amazon Alexa and Google Assistant.





* Pressure relief valve to be installed

Why choose **Multi**?



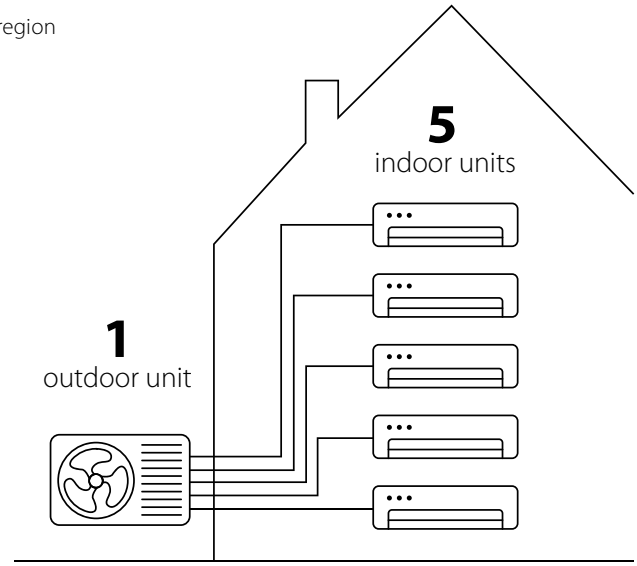
Optimization of space heating

Customer needs
Heating | Cooling

Your customer wants to **keep the existing boiler, but reduce the gas consumption**. Your customer wants a sustainable heating system, while only using gas for water heating.

Your customer's house:

- Up to 5 rooms to be heated/cooled
- Located in a warm or average climate region region
- Any number of inhabitants
- A single or multi family house



Legend
Connect Multi outdoor unit with up to 5 indoor units

1 | Flexibility

There are many possibilities in comfort you can profit from a multi split solution:

Up to 5 indoor units connectable to **only one** outdoor unit

Every single indoor unit can be **regulated separately**

Choose from a **greater variety** of connectable indoor unit types out of our split and Sky Air series

Use **low capacity** indoor units specially designed for small rooms which can only be connected to a multi split system

Are you planning an additional indoor unit later on? Just **decide now** for an outdoor unit with higher capacity and simply **connect it later**.

2 | Efficiency

Up to
A+++
in cooling and heating

Our durable compressors can work very efficiently thanks to the inverter principle. Only the necessary capacity is produced according to the number of indoor units that are switched on. With efficiencies up to A+++ (*) in heating, your customer can drastically reduce the gas energy bill and only use the gas boiler for producing hot water.

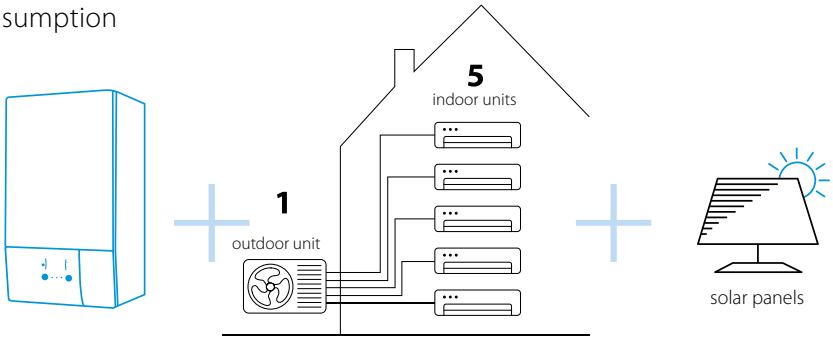
(*) Perfera C/FTXM-A in combination with 3MXM52A(9)
For exact combinations, please refer to the multi specifications on p. 373

Quickly reduce on the energy consumption

Add a multisplit system and photovoltaic solar panels to an existing gas boiler and save on your energy bill.

In spring and autumn, simply turn down the radiators or room thermostat.
The multisplit will be perfectly capable to cover the full demand.

In the heart of winter, open the radiators and have them work complementary with your air-to-air heat pump, as they will act as a secondary heat source when needed.



3 | Easy installation, piping and wiring

Wherever you want to place an outdoor unit, for every unit you will need correct mounting equipment for a secure fixing and problem-free operation. The physical installation, wiring, drain piping as well as the initial setup of only one system is easy and fast.

4 | Full comfort offering heating AND cooling

Adding a multi system to the existing gas boiler, saves energy and offers a high level of comfort. And as a plus, not only heating but also cooling is offered with high efficiencies. But if needed, the heat lock mode exists to block the system to only operate in heating mode.

5 | Control your units, wherever you are

All indoor units are individually controllable with their supplied remote control or via the Onecta app.
The Daikin Onecta app enables scheduling, controlling and monitoring of each air-to-air heat pump unit also via voice control. Onecta is compatible with Amazon Alexa and Google Assistant.



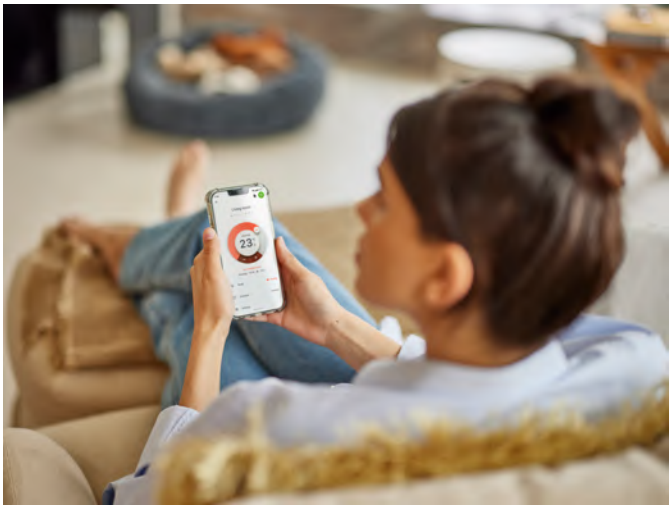
6 | Limited mounting space, low sound

Limited mounting space
The multi outdoor unit is very compact, which can be installed in different ways (on the wall, on a terrace, in the back of a garden, etc.).

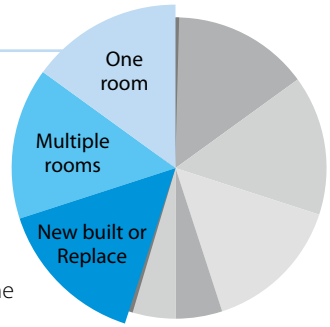
Low sound
Multi outdoor units are standardly very quiet, down to 46 dBA, similar to a dishwasher. Additionally, the Night Quiet Mode function reduces operating noise of the outdoor unit at nighttime, based upon your schedule.

Did you know a special software is developed on a range of outdoor units* to lower the sound level at all times if required by legislation.

* 2MXM40-50A9, 3MXM40-52A9



Why choose **Pair**?



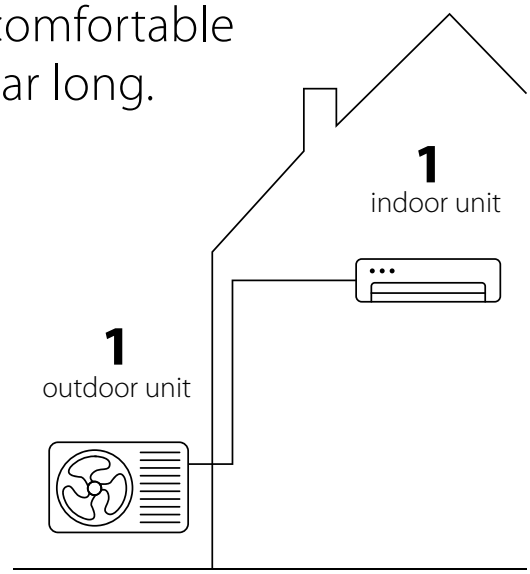
Optimize an additional zone

Customer needs
Heating | Cooling

You already have a **hydronic heating system** at home. You arranged your attic, green house or garage as a **home office or a hobby room**. You don't want to heat this additional zone all the time but you need comfortable and efficient solution all year long.

Your customer's house:
- 1 additional room to heat or cool
- Located in any region (*)
- Any number of inhabitants
- A single or multi family house

(*) For cold climate regions, please refer to the Nepura range



Legend
Connect one outdoor unit to one indoor unit

1 | Flexibility

Your customer can choose the indoor unit that is most suitable for the installation

- **Wall mounted unit:** installed high on the wall, available in many sizes and colours, from which some have earned several awards for their innovative look and functional capabilities.
- **Floor standing unit:** Low enough to be installed beneath a window sill, the unit can be installed against the wall or recessed.



- **Concealed ceiling unit:** Keep things clean and uncluttered with a concealed ceiling unit. They are compact enough to fit any interior and can be installed discreetly so that only the air vents are visible.



reddot design award winner 2013



FTXZ-N

reddot award 2018 winner



White FTXA-CW



Silver FTXA-CS

DESIGN AWARD 2018

GOOD DESIGN



Black FTXA-CB

reddot award 2022 winner



White FTXJ-AW9



Silver FTXJ-AS9

DESIGN AWARD 2022

GOOD DESIGN



Black FTXJ-AB9

2 | Efficiency

With the highest efficiencies in the market, a pair installation will save on your energy bill and provide comfort all year long.



Up to A+++ in heating



Up to A+++ in cooling

3 | High heating capacities

Our pair units operate in heating mode down to -20°C (*)

If outdoor temperature are even more severe, the Nepura range creates a comfortable interior environment while maintaining excellent energy efficiency ratings and guaranteeing operation even in **temperatures as low as -30°C, offering enhanced heating features**.

(*) FTXJ-A9 / RXJ-A* and FTXM-A / RXM-A* combination

4 | Control your units, wherever you are

All indoor units are individually controllable with their supplied remote control or via the Onecta app.

The Daikin Onecta app enables scheduling, controlling and monitoring of each air-to-air heat pump unit – also via voice control. Onecta is compatible with Amazon Alexa and Google Assistant.



5 | Full comfort offering heating AND cooling

A split system saves energy and offers a high level of comfort to a room. And as a plus, not only heating but also cooling is offered with high efficiencies. Our indoor units are equipped with intelligent sensors and airflow techniques, to provide best comfort, both in heating and cooling.

Intelligent thermal sensor

Stylish FTXA and Daikin Emura FTXJ use an intelligent thermal sensor to detect the surface temperature of a room to create a more comfortable climate by directing the airflow that requires cooling or heating.

3-D air flow

Combines vertical and horizontal auto-swing to circulate a stream of warm or cool air right to the corners of even large spaces.

Coanda effect

By using specially designed flaps, a more focused airflow allows a better temperature distribution throughout the whole room. (Daikin Emura FTXJ and Stylish FTXA)

Heat boost

Heat boost quickly heats up your home when starting up your heat pump system. Set temperature is reached 14% faster(*) than a regular air-to-air heat pump (pair only).

(*) Heat boost test condition: 50 class, outdoor temperature 2°C - Indoor temperature 10°C, R/C setting: 23°C

(*) Applicable for Daikin Emura, Stylish and Perfera wall & floor

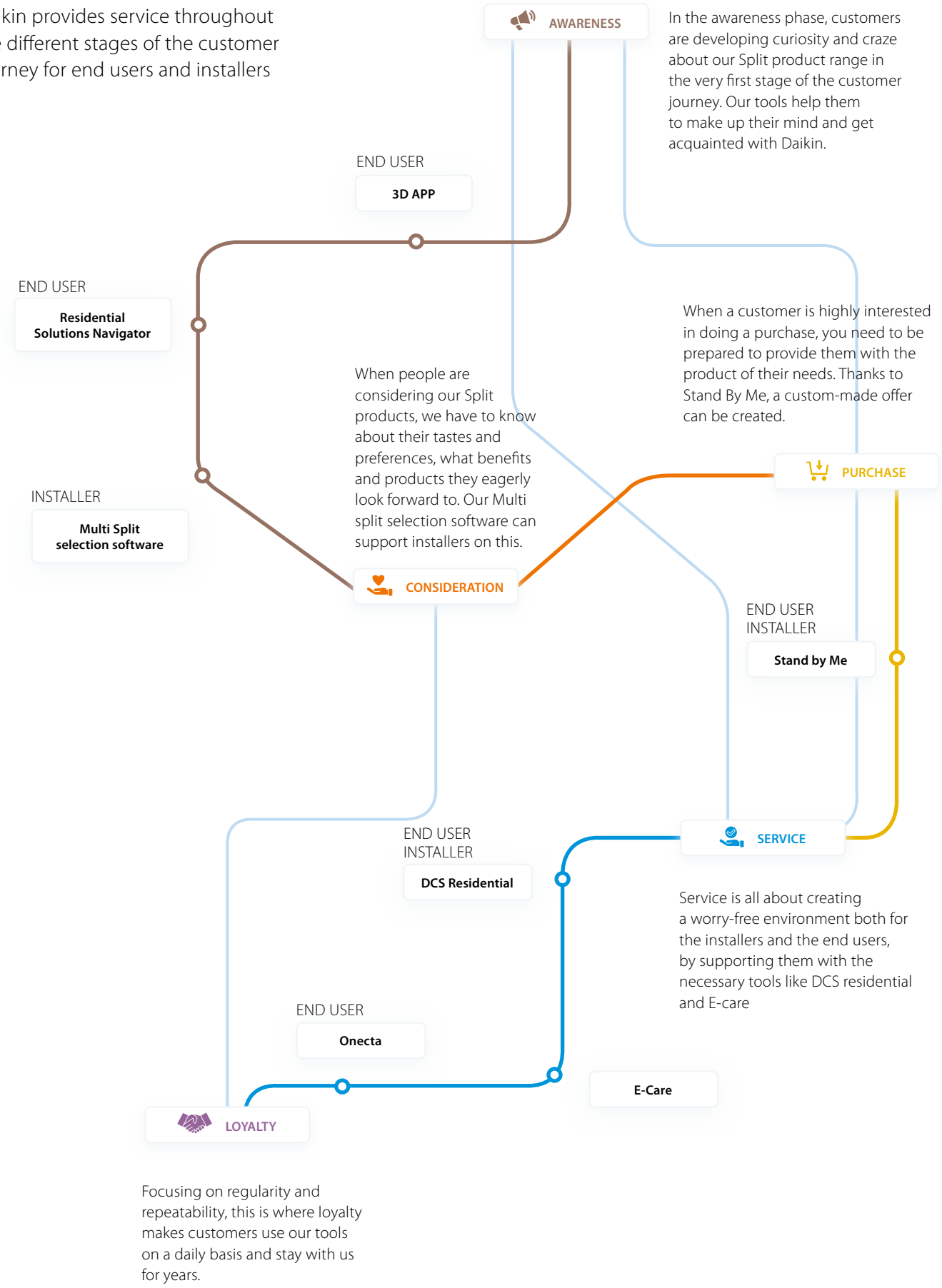
Fireplace logic

When installed close to a heating device (e.g. fireplace or oven) and the set temperature is reached, the fan keeps on running to have an even temperature throughout the whole house (Applicable for Nepura FTXTJ-AW/B, FTXTM-A and FTXTA-CW/B)



Service and solutions

Daikin provides service throughout the different stages of the customer journey for end users and installers



1. 3D App

Daikin 3D app is the application that allows you to choose the air-to-air heat pump and watch it at home BEFORE you buy it!

2. Residential solutions navigator

Find your applicable solution in just a few clicks based on the number and size of the room.

NEW Calculate your savings with the Return on Investment calculator.

3. Multi Split Selection software

Make an accurate selection of your Daikin Multi Split system in a few steps!

Easy web-based selection tool for our multi split range. It allows to choose the most designated system for each customer's individual needs.

4. Stand By Me

With your customer's new Daikin installation and Stand By Me service programme, you can rest assured they are benefiting from the best comfort, energy efficiency, usability and service available on the market.

5. DCS Residential

From the Stand By Me portal, Installers can activate the remote monitoring allowing them to monitor your installation on multiple parameters, remotely.

6. E-Care

The Daikin E-care application supports installers in faster registration to the Stand By Me platform, via QR code scanning. The E-care application also provides installers with easy configuration of heating installations and trouble-shooting via the e-Doctor section.

7. Onecta

The Onecta app can control and monitor up to 50 split units.
All Bluevolution units are connectable with the Onecta app.

Daikin 3D app for end-users

Daikin 3D app is the application that allows you to choose
the air-to-air heat pump and watch it at home BEFORE you buy it!

With the Daikin 3D app you can **virtually place** an air-to-air heat pump in your own interior.

Available on the App Store

GET IT ON Google Play

Switch on the device, get close, look from every angle, add dimensions and take a photo so that you can easily compare all the different Daikin options.



Product range

Choose the desired device



Product detail

Consult the technical data sheets and find additional information

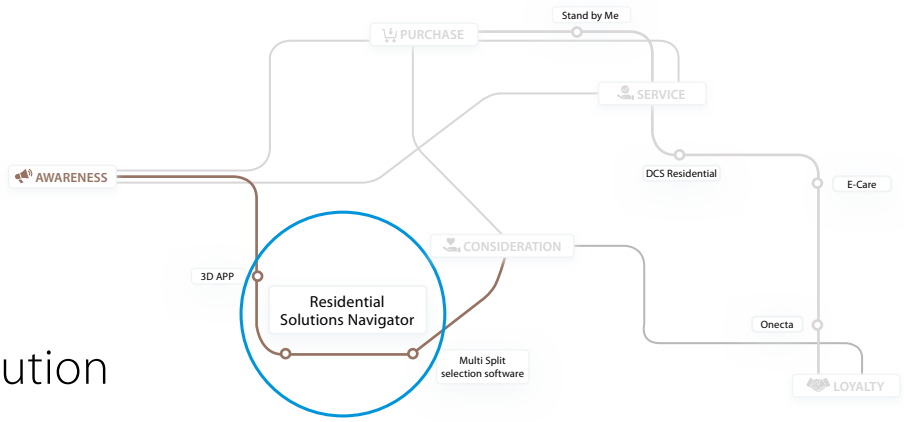


3D visualisation

Customize the size, colour, rotate and move the indoor unit to your liking

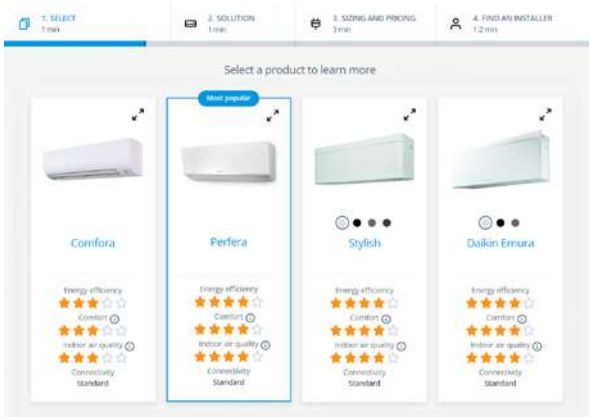
Residential Solutions Navigator

Find the applicable solution in just a few clicks

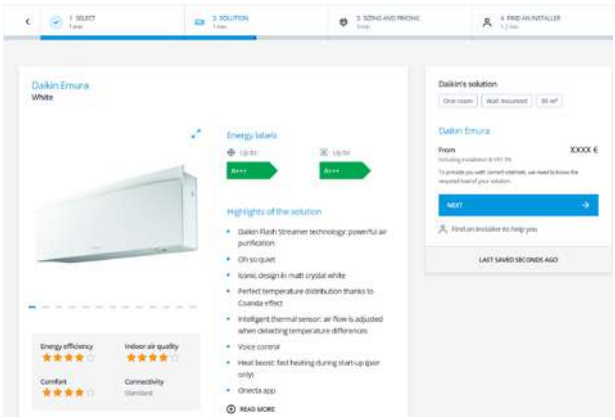


The Residential Solutions Navigator is a digital selection tool developed for end users with the aim to assist in providing the most suitable solution for their homes. Within a few clicks, the end user receives a proposal that fits to his personal requirements.

1 Select the recommended solution based on application, type of indoor unit and room size

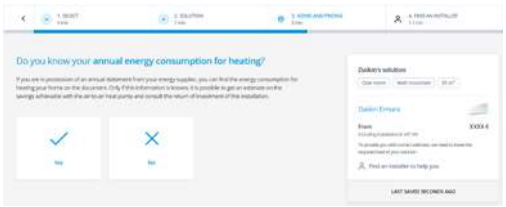


2 The solution in detail: check pictures, features and efficiency

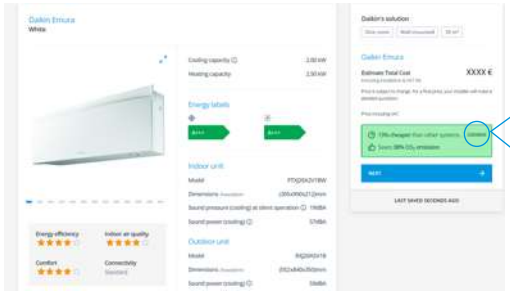


NEW

3 Calculate savings based on current consumption

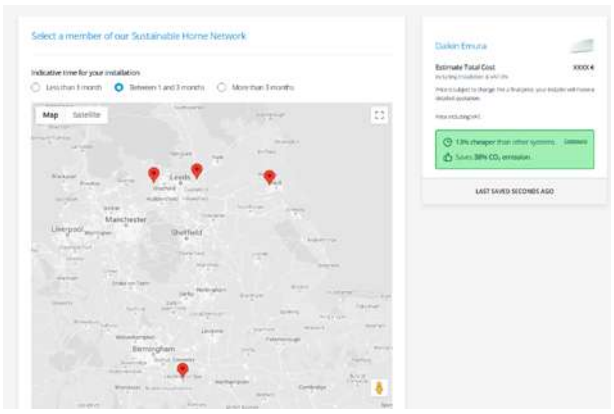








4 Find an installer



Multi Split selection software

Make an accurate selection of your Daikin Multi Split system in a few steps!

Easy web-based selection tool for our multi split range. It allows to choose the most designated system for each customer's individual needs.

1 **Sign in with your Daikin ID**

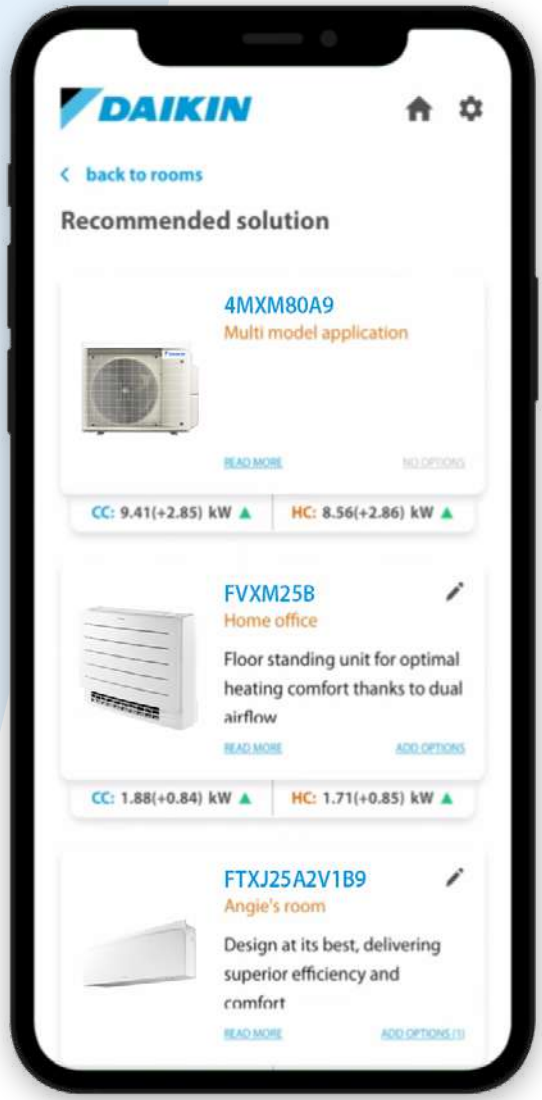
2 **Create a new project** or choose one of your previously created projects

3 **Enter your project details**

4 **Enter the building details**

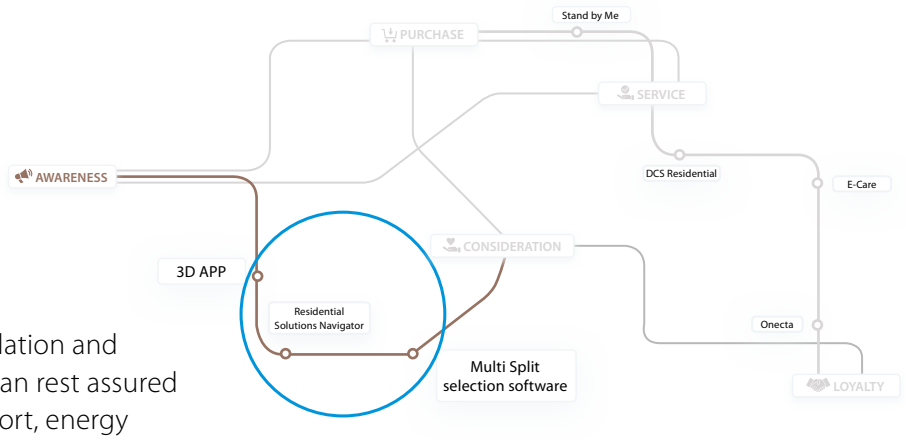
5 **Add rooms**

6 **The best solution is proposed**



Go to **multi.daikin.eu**
and watch the instruction video

Stand By Me, my climate of security



With your customer's new Daikin installation and Stand By Me service programme, you can rest assured they are benefiting from the best comfort, energy efficiency, usability and service available on the market.

Free warranty extension

The first advantage of **Stand By Me** is a free warranty extension:
- ☑ applies to both labour and parts
- ☑ begins immediately after registration

FREE

DAIKIN CLOUD SERVICE

Remote Monitoring Service

Installers can activate their Remote monitoring services via the Stand By Me platform, allowing them to remotely monitor installations.

Quick follow-up by Daikin service partners

Daikin service partners are automatically notified when a customer registers their installation on **www.standbyme.daikin.eu** and needs maintenance.

Your customer is guaranteed:
- ☑ quick and reliable service
- ☑ management of all information related to their installation such as, registration documents, attendance records, maintenance records, etc.
- ☑ immediate access to the correct information contributes to flawless service

Extended warranty on parts

For a small fee, customers can extend the warranty on specific parts.

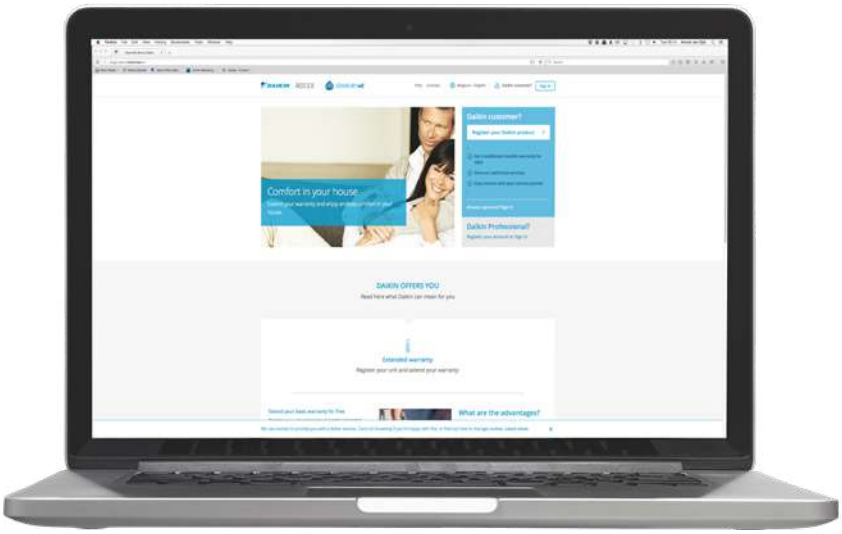
Stand By Me guarantees:
- ☑ that each component is replaced quickly
- ☑ helps avoid financial surprises
- ☑ long life and smooth operation and all other benefits of a Daikin installation
- ☑ reliable service from official Daikin service partners

Daikin service partners work exclusively with Daikin parts and have all of the necessary technical knowledge to solve any issue that may arise

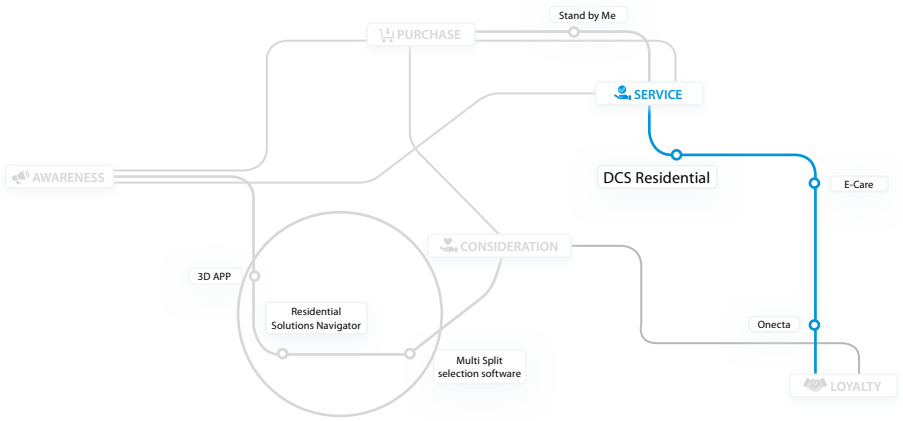
Register your Daikin unit:

www.standbyme.daikin.eu

STAND BY ME



DAIKIN CLOUD SERVICE



DCS residential

From the Stand By Me portal, installers can activate the remote monitoring allowing them to supervise your installation on multiple parameters, from their location. They will get an automatic notification in case there is something wrong with the installation. By changing certain settings, they can improve your comfort immediately. Save time and get a better support, thanks to these new features.

How to access?
Through the Stand By Me Pro portal.

What to expect
Remote monitoring and servicing of split products, after consent from the end user.
- Control your customer's unit and change settings.
- Read out up to 34 D-checker data points.



Solving a simple issue without broken parts

Without DCS



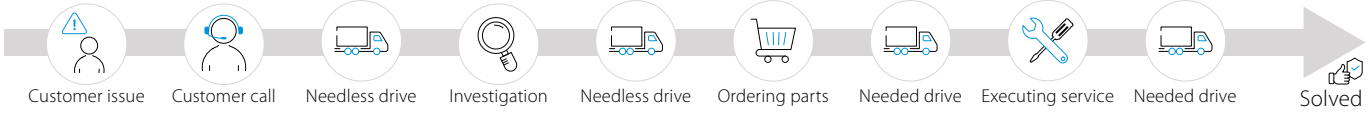
With DCS



FASTER

Solving a complex issue which needs ordering and replacing broken parts

Without DCS



With DCS



FASTER

Visualization

Overview per product, showing the selected parameters



Adding Markers

Up to 5 markers can be placed and customized



Parameter Panel

Easily select the required parameters and change colours



Exporting (Image/CSV)

Export the data of a selected period in CSV or as an image



E-Care app

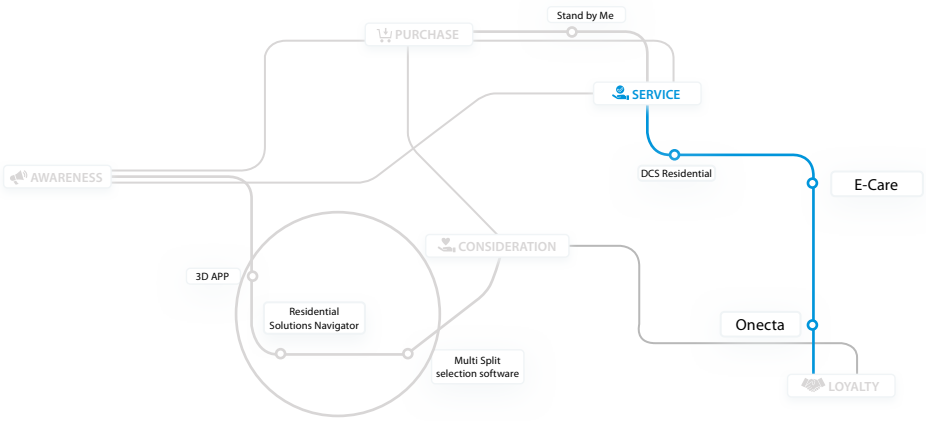
The Daikin e-Care app wants to make the life of a Daikin installer easier by offering Stand By Me registrations via QR code scanning, easy configuration of your heating installation and trouble-shooting via the e-Doctor part.

Order your **spareparts** direclty via the e-Care app, update the settings of your installation with a **Wifi USB** stick and avoid any possible mistake during commissioning of your installation thanks to the easy guidance of the **Commissioning Assistant**.

Available on the App Store

GET IT ON Google Play



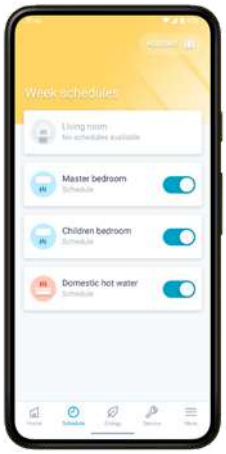


Onecta

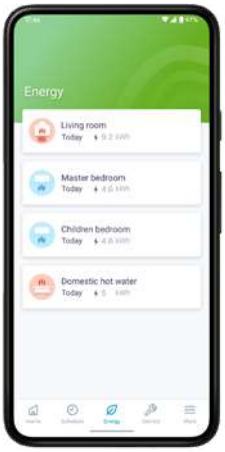
The Onecta app can control and monitor up to 50 units.



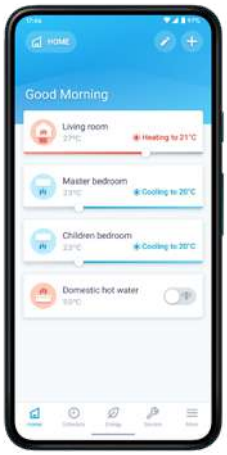
Control
Control operation mode, temperature, air purification, fan speed & direction



Schedule
Schedule the set temperature, operation mode and fan speed



Monitor
Monitor your energy consumption, set holiday schedule



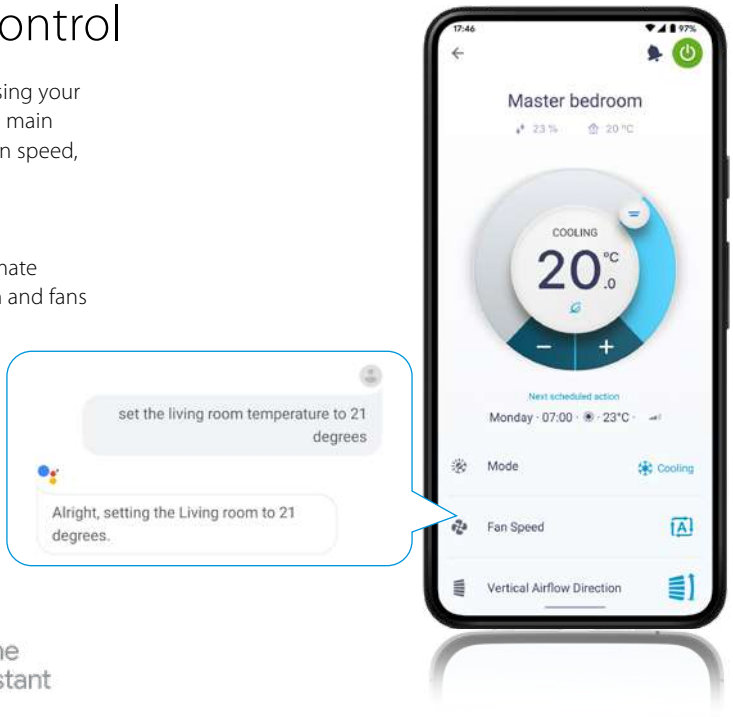
Identify
Identify the rooms of your house

Intuitive online and voice control

Control your system and enjoy maximum comfort, just by using your voice. Via Amazon Alexa or Google Assistant you can control main functions such as temperature set point, operation mode, fan speed, and much more!

Your benefits

- Access to various features for controlling your internal climate
- Manage the temperature, operating mode, air purification and fans with the interactive thermostat
- Create different operating schedules and modes
- Monitor energy consumption



amazon alexa

works with the Google Assistant

Full Split R-32 product range

Full R-32 indoor unit range for average and cold outdoor temperatures



		Model	Product name		15	20	25	30	35	40	42	50	60	71
Standard range	Wall mounted	**Ururu Sarara** Complete climate control with (de) humidification, air purification & ventilation with top efficiencies in heating & cooling	FTXZ-N				A++ A+ D A++ A+ D (pair only)		A++ A+ D A++ A+ D (pair only)			A++ A+ D A++ A+ D (pair only)		
		Daikan Emura UPDATE Design that speaks for itself	FTXJ-AW/S/B9			A++ A+ D A++ A+ D	A++ A+ D A++ A+ D		A++ A+ D A++ A+ D		A++ A+ D A++ A+ D	A++ A+ D A++ A+ D		
		Stylish UPDATE Most compact design wall mounted unit	CTXA-CW/S/B		● (multi only)									
			FTXA-CW/S/B			A++ A+ D A++ A+ D	A++ A+ D A++ A+ D		A++ A+ D A++ A+ D		A++ A+ D A++ A+ D	A++ A+ D A++ A+ D		
		Perfera Wall mounted unit design for high performance and high indoor air quality	CTXM-A		● (multi only)									
			FTXM-A			A++ A+ D A++ A+ D	A++ A+ D A++ A+ D		A++ A+ D A++ A+ D		A++ A+ D A++ A+ D	A++ A+ D A++ A+ D	A++ A+ D A++ A+ D	A++ A+ D A++ A+ D
		Comfora UPDATE Discreet wall mounted unit providing high efficiency and comfort	FTXP-N(9)			A++ A+ D A++ A+ D	A++ A+ D A++ A+ D		A++ A+ D A++ A+ D			A++ A+ D A++ A+ D	A++ A+ D A++ A+ D	A++ A+ D A++ A+ D
		Sensira NEW Wall mounted unit for low energy consumption and pleasant comfort	FTXF-F			A++ A+ D A+ A+ D (pair only)	A++ A+ D A+ A+ D (pair only)		A++ A+ D A+ A+ D (pair only)		A++ A+ D A+ A+ D (pair only)	A++ A+ D A+ A+ D (pair only)	A++ A+ D A+ A+ D (pair only)	A A+ D A A+ D (pair only)
			CTXF-F			● (multi only)	● (multi only)		● (multi only)					
		Sensira NEW Wall mounted unit, offering good value for money and ensuring a steady supply of clean air	FTXC-E			A++ A+ D A+ A+ D (pair only)	A++ A+ D A+ A+ D (pair only)		A++ A+ D A+ A+ D (pair only)			A++ A+ D A+ A+ D (pair only)	A++ A+ D A+ A+ D (pair only)	A A+ D A A+ D (pair only)
	Floor standing	**Perfera** UPDATE Design floor standing unit for optimal heating comfort thanks to unique heating features	CVXM-B			● (multi only)								
			FVXM-B				A++ A+ D A++ A+ D		A++ A+ D A++ A+ D			A++ A+ D A++ A+ D		
	Concealed ceiling	**Concealed ceiling unit** Compact concealed ceiling unit, with a height of only 200mm	FDXM-F9				A+ A+ D A+ A+ D		A A+ D A A+ D			A+ A+ D A A+ D	A A+ D A A+ D	
Siesta range	Wall mounted	**Siesta wall mounted unit** Discreet, modern design for optimal efficiency and comfort thanks to 2 area motion detection sensor	ATXM-A			● (multi only)	A++ A+ D A++ A+ D		A++ A+ D A++ A+ D			A++ A+ D A++ A+ D		
		Siesta wall mounted unit Discreet Siesta wall mounted unit providing high efficiency and comfort	ATXP-N9			A++ A+ D A++ A+ D	A++ A+ D A++ A+ D		A++ A+ D A++ A+ D					
		Siesta wall mounted unit NEW Wall mounted unit for low energy consumption and pleasant comfort	ATXF-F			A++ A+ D A+ A+ D	A++ A+ D A+ A+ D		A++ A+ D A A+ D		A++ A+ D A A+ D (pair only)	A++ A+ D A A+ D (pair only)	A++ A+ D A A+ D	A A+ D A A+ D
			ATXF-G				● (multi only)		● (multi only)					
		Siesta wall mounted unit Wall mounted unit, offering good value for money and ensuring a steady supply of clean air	ATXC-E			A++ A+ D A+ A+ D (pair only)	A++ A+ D A+ A+ D (pair only)		A++ A+ D A+ A+ D (pair only)			A++ A+ D A+ A+ D (pair only)	A++ A+ D A+ A+ D (pair only)	A A+ D A A+ D (pair only)
nepura range	Wall mounted	**Daikan Emura** Design that speaks for itself	FTXTJ-AW/B					A++ A+ D A++ A+ D (pair only)						
		Stylish Most compact design wall mounted unit, even at ambient temperatures down to -25°C	FTXTA-CW/B					A++ A+ D A++ A+ D (pair only)						
		Perfera NEW Attractive, wall mounted design with perfect indoor air quality	FTXTM-A					A++ A+ D A++ A+ D (pair only)		A++ A+ D A++ A+ D (pair only)				
		Comfora NEW Discreet wall mounted unit providing high efficiency and comfort	FTXTP-A				A++ A+ D A++ A+ D (pair only)		A++ A+ D A++ A+ D (pair only)					
	Floor standing	**Perfera** UPDATE Design floor standing unit for optimal heating comfort thanks to unique heating features	FVXTM-B					A++ A+ D A++ A+ D						

Energy efficiency class in cooling and heating (average climate)

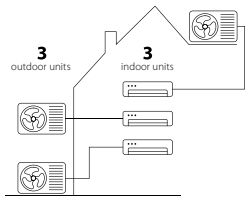


Full R-32 pair and multi outdoor unit range

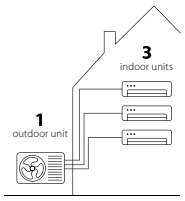
Flexible configurations work in all homes

Whether you are looking for a single room solution or a system for your entire home, we can accommodate your needs.

Pair split or multi split combination – the direct system comparison



Conventional pair split installation for three rooms



Solution for the same situation with only one multi split outdoor unit

	Model	Product name		20	25	30	35	40	42	50	52	60	68	71	80	90
Standard range	Pair heat pump	RXZ-N			•		•			•						
		UPDATE RXJ-A9		•	•		•		•	•						
		UPDATE RXA-A8/B8		•	•		•		•	•						
		UPDATE RXM-A(9/8)		•	•		•		•	•		•		•		
		UPDATE RXP-N9/8		•	•		•		•	•		•		•		
		NEW RXF-F/D9		•	•		•		•	•		•		•		
		NEW RXC-E		•	•		•			•		•		•		
	Multi heat pump	2-port MXM-A9						•		•			•			
		3-port MXM-A9						•			•		•			
		4-port MXM-A9											•		•	
		5-port MXM-A9														•
		2-port MXF-A						•		•						
		3-port MXF-A9									•		•			
	Multi + heat pump and hot water	4-port MWXM-A9									•					
		NEW 5 port MWXM-A9											•			•
Siesta range	Pair heat pump	UPDATE ARXM-A(9/8)			•		•			•						
		UPDATE ARXP-N9		•	•		•									
		NEW ARXF-F/A9		•	•		•		•	•		•		•		
		NEW ARXC-E		•	•		•			•		•		•		
	Multi heat pump	2-port AMXM-M9						•		•						
		3-port AMXM-N9									•					
		2-port AMXF-A						•		•						
		3-port AMXF-A9									•					
nepura range	Pair heat pump down -30°C	RXTJ-A				• (pair only)										
		NEW RXTA-C				• (pair only)										
		NEW RXTM-A				• (pair only)		• (pair only)								
		RXTP-A			• (pair only)		• (pair only)									

Benefits overview

Split

		Standard range								
		Wall mounted								Concealed ceiling
				UPDATE		UPDATE	UPDATE	UPDATE	NEW	
		FTXZ-N	C/FTXA-CW/S/B	FTXJ-AW/S/B9	C/FTXM-A	FTXP-N(9	FTXF-F	CTXF-F	FTXC-E	FDXM-F9
										
We care	Econo mode	•	•	•	•	•	•	•		
	2-area motion detection sensor				•					
	3- area motion detection sensor	•								
	Energy saving during operation standby	•	•	•	•	•	•	•	•	
	Home leave operation									•
	Night set mode		•	•	•	•				
	Fan only	•	•	•	•	•	•	•	•	•
	Auto cleaning filter	•								•*
Comfort	Comfort mode	•	•	•	•	•	•	•		
	Comfort+				•					
	Powerful mode	•	•	•	•	•	•	•	•	
	Auto cooling-heating changeover	•	•	•	•	•	•	•	•	
	Whisper quiet (down to 19dBA)	•	•	•	•	•				
	Practically inaudible		•	•	•	•				
	Indoor unit silent operation	•	•	•	•	•	•	•		
	Comfortable sleeping mode	•							•	
	Outdoor unit silent operation	•	•	•	•					
	Fireplace logic									
	Heat boost		•	•	•					
	Heat plus									
	Floor warming									
Air flow	Weather compensation									
	3-D Air flow	•	•	•	•	•				
	Vertical auto swing	•	•	•	•	•	•	•	•	
	Horizontal auto swing	•	•	•	•	•				
	Auto fan speed	•	•	•	•	•	•	•	•	
	Fan speed steps	5	5	5	5	5	5	5	5	3
	Intelligent thermal sensor		•	•						
	Coanda Effect	• (cooling only)	• (cooling and heating)	• (cooling and heating)						
Humidity control	Ururu - humidification	•								
	Sarara - dehumidification	•								
	Dry programme		•	•	•	•	•	•	•	•
Air treatment	Flash Streamer**	•	•	•	•					
	Titanium apatite deodorising filter	•	•	•	•	•			•	
	Silver allergen removal and air purifying filter		•	•	•	•				
	Air filter	•	• (captures bacteria/viruses)	•	• (captures bacteria/viruses)	•	•	•	•	•
Remote control & timer	Daikin Cloud Service		•	•	•	•				
	Onecta app	•*	•	•	•	•	•	•	•	•*
	Weekly timer		•	•	•					•
	24 Hour timer	•				•	•	•	•	•
	Infrared remote control	•	•	•	•	•	•	•	•	•
	Wired remote control		•*	•*	•*					•*
	Centralised remote control	•	•	•	•					•
	Multi zoning									•
Other functions	Auto-restart	•	•	•	•	•	•	•	•	•
	Self-diagnosis	•	•	•	•	•	•	•	•	•
	Multi model application		•	•	•	• (20,25,35 class)		• (20,25,35 class)		•
	Guaranteed operation down to -30°C									

* Available as option

** The Flash Streamer technology is not meant to be used for medical purposes

Floor standing	Siesta range				Nepura range				
	Siesta Wall mounted				Wall mounted				Floor standing
			UPDATE	NEW			NEW	NEW	UPDATE
C/FVXM-B	ATXM-A	ATXP-N9	ATXF-F/G	ATXC-E	FTXTJ-AW/B	FTXTA-CW/B	FTXTM-A	FTXTP-A	FVXTM-B
									
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•	•	• 20,25,35 class	• 25,35 class (ATXF-G only)						
					•	•	•	•	•

The best of the best



Why choose Ururu Sarara?

The Daikin Ururu Sarara brings a new level of sophisticated control to air to air heat pumps. It has five air treatment techniques which together provide a total comfort solution. In addition, the Ururu Sarara range has SEER up to 9.54 and SCOP up to 5.90 with A+++ ratings thanks to its energy efficient compressor and heat exchanger. Because of its innovative technology, as well as its design, it won the prestigious Red Dot design award in 2013.

5 air treatment techniques

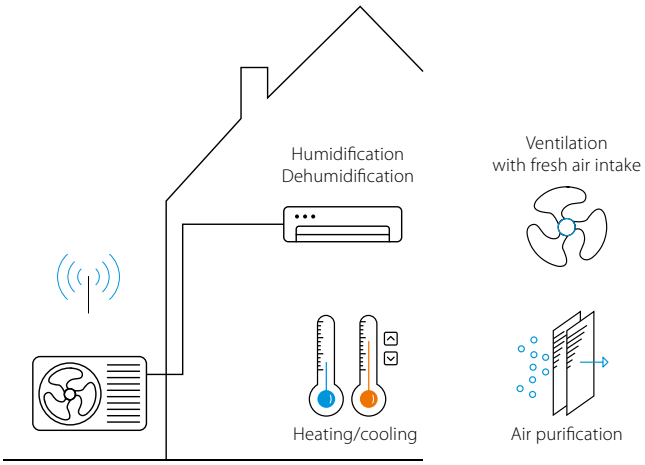
- Heating and cooling in one unit, for year-round comfort with the highest energy label available
- In winter, the Ururu function replenishes the moisture in the air to maintain a comfortable feel without unnecessary heating
- In summer, the Sarara function removes excess moisture while maintaining an even temperature thus eliminating the need for extra cooling
- Ventilation for fresh air even with closed windows
- Air purification and automatic filter cleaning to remove allergens to supply clean air

reddot design award winner 2013

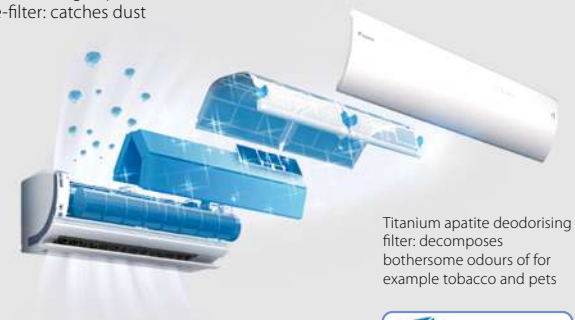
optional

BLUEVOLUTION

A A+++ ↑ D



Flash Streamer*:
generates high-speed electrons
Pre-filter: catches dust



Titanium apatite deodorising filter: decomposes bothersome odours of for example tobacco and pets

flash streamer ONLY BY DAIKIN

Did you know?

Fresh air, even with closed windows

Unlike a conventional air conditioner, the Ururu Sarara brings fresh, conditioned air into the room. The Ururu Sarara is the very first residential heat pump system that – because of its powerful ventilation capacity of 30 m^3/h – can fill a room of more than 26 m^2 with fresh air in less than two hours. Furthermore, the incoming air is brought in at the desired temperature without thermal loss.

* The Flash Streamer technology is not meant to be used for medical purposes

Wall mounted unit

Ururu Sarara

Complete climate control with (de) humidification, air purification & ventilation with top efficiencies in heating & cooling

- Unique combination of humidification, dehumidification, ventilation, air purification and heating & cooling in 1 system
- 3 area motion detection sensor: air flow is sent to a zone other than where the person is located at that moment. Detection is done in 3 directions: left, front and right. If no people are detected, the unit will automatically switch over to the energy-efficient setting
- No need to clean filters, thanks to the self cleaning filter
- Voice command via Amazon Alexa or Google Assistant to control main functions such as set point, operation mode, fan speed, etc
- Onecta app (optional): control your indoor from any location with an app, via your local network or internet
- Seasonal efficiency values: full range A+++ in cooling and heating
- Whisper quiet in operation: the operating of the unit can hardly be heard. The sound pressure level goes down to 19dBA!
- 3-D air flow combines vertical and horizontal auto swing to circulate a stream of warm or cool air right to the corners of even large spaces
- Reddot design award winner 2013

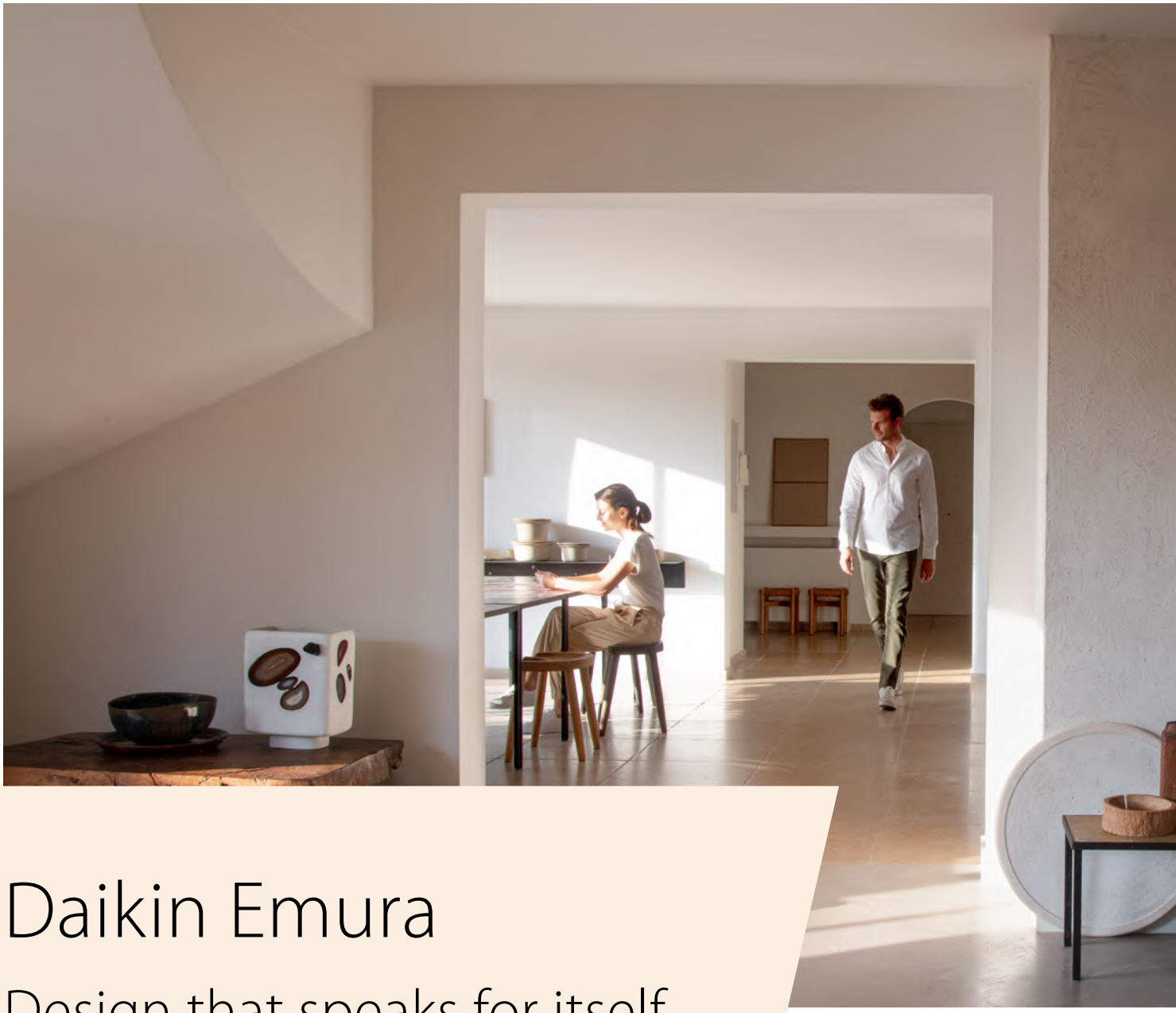


FTXZ-N RXZ-N

Efficiency data					FTXZ + RXZ	25N + 25N	35N + 35N	50N + 50N
Cooling capacity	Min./Nom./Max.			kW		0.6/2.5/3.9	0.6/3.5/5.3	0.6/5.0/5.8
Heating capacity	Min./Nom./Max.			kW		0.6/3.6/7.5	0.6/5.0/9.0	0.6/6.3/9.4
Power input	Cooling		Min./Nom./Max.	kW		0.11/0.41/0.88	0.11/0.66/1.33	0.11/1.10/1.60
	Heating		Min./Nom./Max.	kW		0.10/0.62/2.01	0.10/1.00/2.53	0.10/1.41/2.64
Space cooling	Energy efficiency class							
	Capacity		Pdesign	kW		2.50	3.50	5.00
	SEER					9.54	9.00	8.60
	Annual energy consumption			kWh/a		92	136	203
Space heating (Average climate)	Energy efficiency class							
	Capacity		Pdesign	kW		3.50	4.50	5.60
	SCOP/A					5.90	5.73	5.50
	Annual energy consumption			kWh/a		831	1,100	1,427
Nominal efficiency	EER					6.10	5.30	4.55
	COP					5.80	5.00	4.47
	Annual energy consumption			kWh		205	330	550
	Energy labeling Directive		Cooling/Heating				A/A	

Indoor unit					FTXZ	25N	35N	50N
Dimensions	Unit	HeightxWidthxDepth		mm			295x798x372	
Weight	Unit			kg			15	
Air filter	Type						Auto cleaning filter	
Fan	Air flow rate	Cooling	Silent operation/Low/High	m^3/min		4.0/5.3/10.7	4.0/5.6/12.1	4.6/6.6/15.0
		Heating	Silent operation/Low/High	m^3/min		4.8/6.7/11.7	4.8/6.9/13.3	5.9/7.7/14.4
Sound power level	Cooling			dBA		54	57	60
	Heating			dBA		56	57	59
Sound pressure level	Cooling	Silent operation/Low/Nom./High		dBA		19/26/33/38	19/27/35/42	23/30/38/47
	Heating	Silent operation/Low/Nom./High		dBA		19/28/35/39	19/29/36/42	24/31/38/44
Control systems	Infrared remote control						ARC477A1	
Power supply	Phase/Frequency/Voltage			Hz/V			1~/50/220-240	

Outdoor unit					RXZ	25N	35N	50N
Dimensions	Unit	HeightxWidthxDepth		mm			693x795x300	
Weight	Unit			kg			50	
Sound power level	Cooling			dBA		59	61	63
	Heating			dBA		59	61	64
Sound pressure level	Cooling	High		dBA		46	48	49
	Heating	High		dBA		46	48	50
Operation range	Cooling	Ambient	Min.~Max.	°CDB			-10~43	
	Heating	Ambient	Min.~Max.	°CWB			-20~18	
Refrigerant	Type						R-32	
	GWP						675	
	Charge			kg/TCO2Eq			1.34/0.9	
Piping connections	Liquid	OD		mm			6.35	
	Gas	OD		mm			9.5	
	Piping length	OU - IU	Max.	m			10	
	Level difference	IU - OU	Max.	m			8	
Power supply	Phase/Frequency/Voltage			Hz/V			1~/50/220-240	
Current - 50Hz	Maximum fuse amps (MFA)			A			16	



Daikin Emura

Design that speaks for itself

Why choose Daikin Emura?

- Ultimate comfort, designed with the highest quality in mind... Its design speaks for itself: Daikin Emura pleases the eye and has a strong focus on comfort and user experience to improve your well-being at home.
- When you choose Daikin technology, you can count on year-round comfort, energy efficiency, reliability and control.

DESIGN AWARD 2022 · GOOD DESIGN · reddot award 2022 winner

High energy efficiency

Seasonal efficiency gives a more realistic indication on how efficient air-to-air heat pump operate over an entire heating or cooling season. The label includes multiple classifications from A+++ to G. Daikin Emura achieves high energy efficiencies:

- SEER up to A+++
- SCOP up to A+++

Benefits

- Almost inaudible with sound levels down to 19 dBA
- 3D airflow
- Intelligent thermal sensor
- Heat boost
- Weekly timer
- Onecta app: always in control no matter where you are, including voice control
- Connectable to pair, multi and VRV



Full connectivity

Onecta App
Control your system and enjoy maximum comfort just by using your voice. Using Amazon Alexa or Google Assistant, you can control the main functions such as the temperature setting, operating mode, fan speed and much more! (see page 347)

Residential Solutions Navigator (RSN)
Find your applicable solution in just a few clicks based on the number and size of the room. Calculate your savings with the Return on Investment calculator. (see page 341)

DCS Residential
From the professional portal, Installers can activate the remote monitoring allowing them to supervise your installation on multiple parameters, from their location. (see page 344)

Unique design

Silver, matt white and matt black, these are the three monochrome colours in which Daikin Emura is available.



The front panel of the remote control matches the colours of the indoor unit – the casing is anthracite grey to create a floating effect.



The outdoor unit comes in ivory white.



Comfort

Intelligent thermal sensor
Daikin Emura uses an intelligent thermal sensor to detect a room's current temperature. After determining the room temperature, the intelligent thermal sensor distributes air evenly throughout the room before switching to an airflow pattern that directs warm and cool air to areas that need it.

3D airflow
Combines vertical and horizontal auto-swing to circulate a stream of warm or cool air right to the corners of even large spaces.

Inaudible to hear
Daikin Emura is almost inaudible with sound levels down to 19 dBA.

Coanda effect
By using specially designed flaps, a more focused airflow allows a better temperature distribution throughout the whole room.

Heat boost
Daikin Emura quickly heats the room when starting up, ensuring the set temperature is reached faster.

Wall mounted unit

Design that speaks for itself

- Remarkable blend of iconic design and engineering excellence with an elegant finish in matt crystal white, silver and black
- The Coanda effect optimises the airflow for a comfortable climate. By using specially designed flaps, a more focused airflow allows a better temperature distribution throughout the whole room
- The intelligent thermal sensor determines the current room temperature and distributes air evenly throughout the room before switching to an airflow pattern that directs warm or cool air to areas that need it
- Heat boost quickly heats up your home when starting up your air conditioner. Set temperature is reached 14% faster than a regular airconditioner (pair only)
- Using electrons to trigger chemical reactions with air borne particles, the Flash Streamer breaks down allergens such as pollen and fungal allergens and removes bothersome odours providing a better, cleaner air
- Voice command via Amazon Alexa or Google Assistant to control main functions such as set point, operation mode, fan speed, etc.
- Onecta app: control your indoor from any location with an app, via your local network or internet
- Whisper quiet in operation: the operating of the unit can hardly be heard. The sound pressure level goes down to 19dBA!
- Seasonal efficiency values up to A+++ in cooling and heating



FTXJ-AW9 FTXJ-AS9 FTXJ-AB9 RXJ-A9

Efficiency data				FTXJ + RXJ	20AW/S/B9 + 20A9	25AW/S/B9 + 25A9	35AW/S/B9 + 35A9	42AW/S/B9 + 42A9	50AW/S/B9 + 50A9
Cooling capacity	Min./Nom./Max.			kW	1.30/2.00/2.60	1.30/2.50/3.20	1.40/3.40/4.00	1.7/4.2/5	1.7/5/5.3
Heating capacity	Min./Nom./Max.			kW	1.30/2.50/3.50	1.30/2.80/4.70	1.40/4.00/5.20	1.7/5.4/6	1.7/5.8/6.5
Power input	Cooling		Nom.	kW	0.43	0.56	0.78	1.05	1.36
	Heating		Nom.	kW	0.50	0.56	0.99	1.31	1.45
Space cooling	Energy efficiency class								
	Capacity		Pdesign	kW	2.00	2.50	3.40	4.2	5
	SEER				8.75	8.74	8.73	7.5	7.33
	Annual energy consumption			kWh/a	80	100	136	196	239
Space heating (Average climate)	Energy efficiency class								
	Capacity		Pdesign	kW	2.40	2.45	2.50	3.8	4
	SCOP/A					5.15		4.6	
	Annual energy consumption			kWh/a	652	666	680	1,156	1,218
Nominal efficiency	EER				4.70	4.46	4.37	3.99	3.68
	COP					5.00	4.04	4.12	4
	Annual energy consumption			kWh	213	280	389	526	679
	Energy labeling Directive			Cooling/Heating			A/A		
Current - 50Hz	Maximum fuse amps (MFA)			A	10.00	13.00		13	

Indoor unit				FTXJ	20AW/S/B9	25AW/S/B9	35AW/S/B9	42AW/S/B9	50AW/S/B9
Dimensions	Unit	HeightxWidthxDepth		mm	305x900x212				
Weight	Unit			kg	12				
Air filter	Type				Removable / washable				
Fan	Air flow rate	Cooling	Silent operation/Low/Medium/High	m^3/min	4.6/6.0/8.4/11.0	4.6/6.0/8.6/11.4	4.6/6.0/8.6/11.8	4.6/7.2/9.5/13.0	5.2/7.6/10.4/13.5
		Heating	Silent operation/Low/Medium/High	m^3/min	4.6/6.4/8.7/11.1	4.6/6.4/9.0/11.3	4.6/6.4/9.0/11.7	5.2/7.7/10.5/14.4	5.7/8.2/11.1/15.0
Sound power level	Cooling			dBA	57			60	
Sound pressure level	Cooling	Silent operation/Low/High		dBA	19/25/39	19/25/40	19/25/41	21/29/45	24/31/46
	Heating	Silent operation/Low/High		dBA	19/25/39	19/25/40	19/25/41	21/29/45	24/33/46
Control systems	Infrared remote control				ARC488A1W				
	Wired remote control				BRC073A1				

Outdoor unit				RXJ	20A9	25A9	35A9	42A9	50A9
Dimensions	Unit	HeightxWidthxDepth		mm	552x840x350			734x954x408	
Weight	Unit			kg	33			49	
Sound power level	Cooling	Nom.		dBA	59		61	62	
	Heating	Nom.		dBA	59		61	62	
Sound pressure level	Cooling	Nom.		dBA	46		49	48	
	Heating	Nom.		dBA	47		49	48	49
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10 ~50				
	Heating	Ambient	Min.~Max.	°CWB	-21 ~18				
				°CDB	-20 ~24				
Refrigerant	Type				R-32				
	GWP				675				
	Charge			kg/tCO2Eq	0.76/0.52			1.1/0.75	
Piping connections	Liquid	OD		mm	6.35				
	Gas	OD		mm	9.5			12.7	
	Piping length	OU - IU	Max.	m	20			30	
		System	Chargeless	m	10				
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 10m)				
	Level difference	IU - OU	Max.	m	15			20	
Power supply	Phase/Hz/V				1~/50/220-240				
Current - 50Hz	A				10	13			

Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. | Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. | See separate drawing for operation range | See separate drawing for electrical data | Cooling: indoor temp. 27°CDB, 19.0°CWB; outdoor temp. 35°CDB, 24°CWB; equivalent piping length: 5m | Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m | Contains fluorinated greenhouse gases



Daikin Emura black FTXJ-AB9



Simplified remote control



Daikin Emura white FTXJ-AW9



Daikin Emura silver FTXJ-AS9



Daikin Emura outdoor unit RXJ-A9





Stylish

where innovation meets creativity



White FTXA-CW



Silver FTXA-CS



Black FTXA-CB

up to



in heating & cooling

Available in 3 colours

- Users can choose from **three distinct colours** (white, silver and black)
- **Curved corners** create an unobtrusive and space-saving design
- **Thin dimensions** make it the most compact design unit on the market
- Simple panel enables variation in texture and colour to easily blend into any room
- Award winning design: Stylish earned the Reddot award, the Good Design Award and iF award for its innovative look and functional capabilities

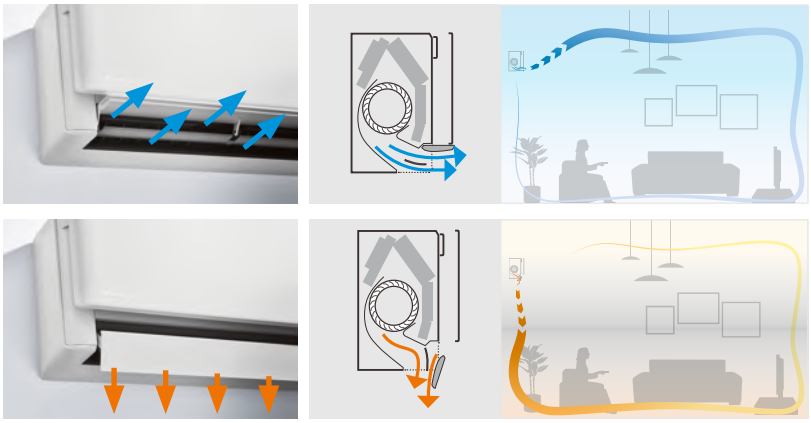
DESIGN AWARD 2018

reddot award 2018
winner

GOOD DESIGN AWARD 2017

The Coanda effect

Already present in the Ururu Sarara, the **Coanda effect** optimises the airflow for a comfortable climate. By using specially designed flaps, a more focused airflow allows a better temperature distribution throughout the whole room.

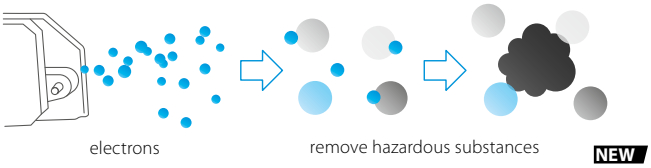


The Coanda effect creates two different airflow patterns depending on whether Stylish is in cooling or heating mode. On the top is the Coanda effect in cooling mode (ceiling airflow), while the bottom images demonstrate the Coanda effect in heating mode (vertical airflow).





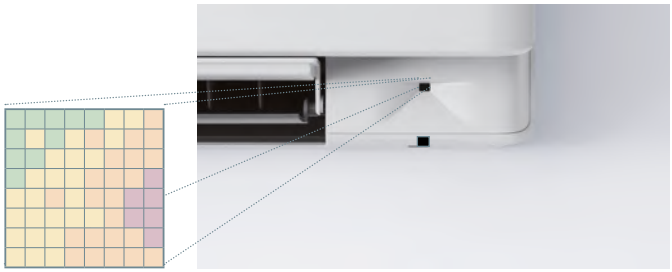
Flash streamer



NEW

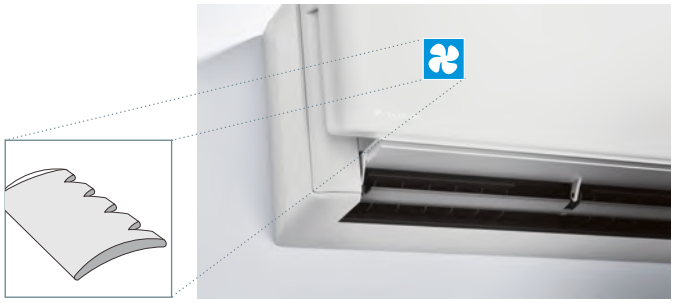
Air quality

Flash streamer: using electrons to trigger chemical reactions with airborne particles, the Flash Streamer removes allergens such as pollen and fungal allergens, eliminating unpleasant odours and providing better, cleaner air.
Static air filter: The new air filter has been treated with an active (Ionpure) substance in order to capture, reduce and remove bacteria and viruses.



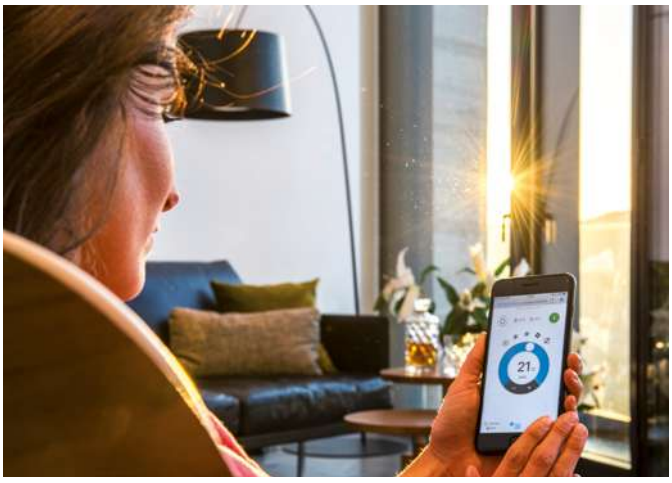
Intelligent thermal sensor

Stylish uses an **intelligent thermal sensor** to detect the surface temperature of a room to create a more comfortable climate. After determining the current room temperature, the sensor distributes air evenly throughout the room before switching to an airflow pattern that directs warm or cool air to areas that need it.



Quiet operation

Stylish uses a **specially designed fan** to optimise airflow for higher energy efficiency at low sound levels. To achieve higher energy efficiency, Daikin designed a fan that runs efficiently within Stylish's compact dimensions. Together, the fan and heat exchanger attain top energy performance but operate at a sound level that is practically inaudible to occupants.



Full connectivity

Onecta app
Control your system and enjoy maximum comfort just by using your voice. Using Amazon Alexa or Google Assistant, you can control the main functions such as the temperature setting, operating mode, fan speed and much more! (see page 347)

Residential Solutions Navigator (RSN)
Find your applicable solution in just a few clicks based on the number and size of the room. Calculate your savings with the Return on Investment calculator. (see page 341)

DCS Residential
From the professional portal, Installers can activate the remote monitoring allowing them to supervise your installation on multiple parameters, from their location. (see page 344)

Wall mounted unit

stylish

Where innovation meets creativity

- A compact and functional design suitable for all interiors in a white, black and silver coloured elegant finish
- The Coanda effect optimises the airflow for a comfortable climate. By using specially designed flaps, a more focused airflow allows a better temperature distribution throughout the whole room
- The intelligent thermal sensor determines the current room temperature and distributes air evenly throughout the room before switching to an airflow pattern that directs warm or cool air to areas that need it
- Practically inaudible: the unit runs so quietly, you will almost forget it is there.
- Using electrons to trigger chemical reactions with air borne particles, the Flash Streamer breaks down allergens such as pollen and fungal allergens and removes bothersome odours providing a better, cleaner air
- Onecta app: control your indoor from any location with an app, via your local network or internet.
- Voice command via Amazon Alexa or Google Assistant to control main functions such as set point, operation mode, fan speed, etc
- Seasonal efficiency values up to A+++ in cooling and heating



CTXA-CW FTXA-CW CTXA-CB FTXA-CB CTXA-CS FTXA-CS RXA-A8 RXA-B8

Efficiency data				FTXA + RXA	CTXA15CW/S/B	20CW/S/B + 20A8	25CW/S/B + 25A8	35CW/S/B + 35A8	42CW/S/B + 42B8	50CW/S/B + 50B8
Cooling capacity	Min./Nom./Max.			kW	Connectable to multi outdoor units only	1.30/2.00/2.60	1.30/2.50/3.20	1.40/3.40/4.00	1.7/4.2/5	1.7/5/5.3
Heating capacity	Min./Nom./Max.			kW		1.30/2.50/3.50	1.30/2.80/4.70	1.40/4.00/5.20	1.7/5.4/6	1.7/5.8/6.5
Power input	Cooling	Min./Nom./Max.		kW		0.27/0.43/0.63	0.27/0.56/0.78	0.31/0.78/1.04	-/1.05 /-	-/1.36 /-
	Heating	Min./Nom.		kW		0.25/0.50/0.91	0.25/0.56/1.22	0.26/0.99/1.67	-/1.31 /-	-/1.45 /-
Space cooling	Energy efficiency class									
	Capacity	Pdesign		kW		2.00	2.50	3.40	4.2	5
	SEER					8.75	8.74	8.73	7.5	7.33
	Annual energy consumption			kWh/a		80	100	136	196	239
Space heating (Average climate)	Energy efficiency class									
	Capacity	Pdesign		kW		2.40	2.45	2.50	3.8	4
	SCOP/A						5.15		4.6	
	Annual energy consumption			kWh/a		652	666	680	1,156	1,218
Nominal efficiency	EER					4.70	4.46	4.37	3.99	3.68
	COP					5.00		4.04	4.12	4
	Annual energy consumption			kWh		213	280	389	526	679
	Energy labeling Directive	Cooling/Heating						A/A		
Current - 50Hz	Maximum fuse amps (MFA)			A		10		13		

Indoor unit				FTXA	CTXA15CW/S/B	20CW/S/B	25CW/S/B	35CW/S/B	42CW/S/B	50CW/S/B
Dimensions	Unit	HeightxWidthxDepth		mm	295x798x189		295x798x189			
Weight	Unit			kg	12		11.5			
Air filter	Type				Removable / washable		Removable / washable			
Fan	Air flow rate	Cooling	Silent operation/Low/Medium/High	m^3/min	4.6/6.1/8/11.0	4.6/6.1/8.2/11.0	4.6/6.1/8.6/11.5	4.6/6.1/8.6/11.9	4.6/7.2/9.8/13.1	5.2/7.6/10.4/13.5
		Heating	Silent operation/Low/Medium/High	m^3/min	4.5/6.4/8.7/10.9	4.5/6.4/8.7/10.9	4.5/6.4/9.0/11.1	4.5/6.4/9.0/11.5	5.2/7.7/10.5/14.6	5.7/8.2/11.1/15.1
Sound power level	Cooling			dBA	57	57		60		
Sound pressure level	Cooling	Silent operation/Low/High		dBA	21/25/39	19/25/39	19/25/40	19/25/41	21/29/45	24/31/46
	Heating	Silent operation/Low/High		dBA	21/25/39	19/25/39	19/25/40	19/25/41	21/29/45	24/33/46
Control systems	Infrared remote control				ARC466A58	ARC466A85				
	Wired remote control					BRC073A1				

Outdoor unit				RXA	20A8	25A8	35A8	42B8	50B8
Dimensions	Unit	HeightxWidthxDepth		mm	Connectable to multi outdoor units only	550x840x350		734x954x401	
Weight	Unit			kg		32		49	
Sound power level	Cooling	Nom.		dBA		59.0	61.0	62	
	Heating	Nom.		dBA		59.0	61.0	62	
Sound pressure level	Cooling	Nom.		dBA		46.0	49.0	48	
	Heating	Nom.		dBA		47.0	49.0	48	
Operation range	Cooling	Ambient	Min.~Max.	°CDB		-10 ~46			
	Heating	Ambient	Min.~Max.	°CWB		-15 ~18			
				°CDB		-15 ~24			
Refrigerant	Type					R-32			
	GWP					675.0		675	
	Charge			kg/tCO2Eq		0.76/0.52		1.1/0.75	
Piping connections	Liquid	OD		mm		6.35		6.4	
	Gas	OD		mm		9.50		9.5	12.7
	Piping length	OU - IU	Max.	m		20		30	
	Additional refrigerant charge			kg/m		0.02 (for piping length exceeding 10m)			
	Level difference	IU - OU	Max.	m		15.0		20	
Power supply	Phase/Hz/V			Hz/V		1~/50/220-240			
Current - 50Hz	A			A		-		13	

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. | Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. | See separate drawing for operation range | Contains fluorinated greenhouse gases | See separate drawing for electrical data



Stylish silver FTXA-CS



Stylish white FTXA-CW



Stylish black FTXA-CB



All seasons, all-year-round comfort, efficiency, air purification, connectivity

perfera
all seasons

Comfort+

Two flaps create a precise angle to make the airflow path narrower.
This increases air velocity to ensure the air travels further.
With its double flap system, the airflow is "squeezed" through the flaps acquiring greater velocity to travel upwards (avoiding cold airflow directly onto people).
Improvement over the single flap in the current model



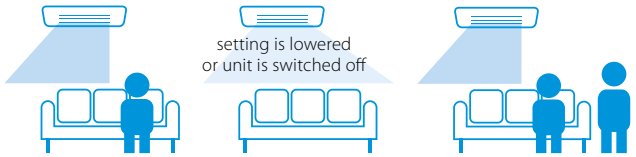


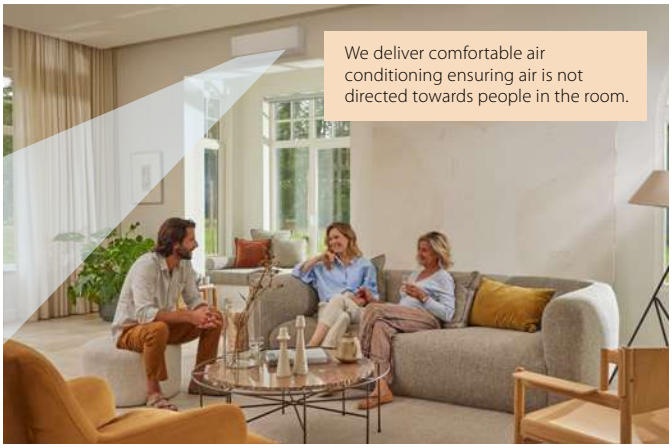


2 area motion detection sensor

Area motion detection sensor
Air direction: the motion detection sensor detect where persons are located in the room to direct the air away from them. Upon leaving the room, the unit goes into energy-saving mode.

Result
Perfect comfort and low-energy consumption







Efficiency

Cost-efficiency and performance-efficiency can be achieved in 2 ways:

1. **PAIR:** By combining one indoor with one outdoor, Daikin delivers the highest efficiency levels on the market. With efficiencies up to A+++, it will save on your energy bills and create wonderful living comfort all year round.
2. **MULTI:** With only one multi split outdoor unit, up to 5 indoor units can be connected. NEW: For certain combinations of Perfera with 3MXM52A(9) outdoor unit an energy efficiency of up to A+++ in cooling and heating* can be reached

Outdoor Unit	Indoor Unit	Energy label	
	C/FTXM-A	Cooling	Heating
3MXM52A2V1B(9) *	1.5 + 1.5 + 3.5	A+++	A+++
	1.5 + 2.0 + 3.5	A+++	A+++
	1.5 + 2.5 + 3.5	A+++	A+++
	2.0 + 2.0 + 3.5	A+++	A+++
	2.0 + 2.5 + 3.5	A+++	A+++
	2.5 + 2.5 + 3.5	A+++	A+++

Air purification

Flash streamer/titanium apatite deodorising filter
Flash streamer: using electrons to trigger chemical reactions with airborne particles, the flash streamer removes allergens such as pollen and fungal allergens, eliminating unpleasant odours and providing fresher, cleaner air.

Flash streamer



The titanium apatite deodorising filter works hard to combat smells such as tobacco smoke and pet odours.

Silver allergen removal filter
The silver allergen removal and air-purifying filter is the ideal solution, because it captures allergens such as pollen to ensure a steady supply of clean air.

NEW Static air filter:

The new air filter has been treated with an active (Ionpure) substance in order to capture, reduce and remove bacteria and viruses.



Full connectivity

Onecta App
Control your system and enjoy maximum comfort just by using your voice. Using Amazon Alexa or Google Assistant, you can control the main functions such as the temperature setting, operating mode, fan speed and much more! (see page 347)

Residential Solutions Navigator (RSN)
Find your applicable solution in just a few clicks based on the number and size of the room. Calculate your savings with the Return on Investment calculator. (see page 341)

DCS Residential
From the professional portal, Installers can activate the remote monitoring allowing them to supervise your installation on multiple parameters, from their location. (see page 344)

perfera

Wall mounted unit

Attractive, wall mounted design with perfect indoor air quality

- Seasonal efficiency values up to A+++ in cooling and heating in pair and multi
- Comfort+: perfect comfort with homogeneous temperature throughout the room. The double flaps direct the air towards the ceiling in cooling and along the wall in heating.
- 2-area motion detection sensor: air flow is sent to a zone other than where the person is located at that moment; if no people are detected, the unit will automatically switch over to the energy-efficient setting. (larger capacity area)
- Heat boost quickly heats up your home when starting up your air conditioner. Set temperature is reached 14% faster than a regular air conditioner (pair only)
- Using electrons to trigger chemical reactions with air borne particles, the Flash Streamer breaks down allergens such as pollen and fungal allergens and removes bothersome odours providing a better, cleaner air
- Silver allergen removal and air purifying filter captures allergens such as pollen to ensure a steady supply of clean air
- Voice command via Amazon Alexa or Google Assistant to control main functions such as set point, operation mode, fan speed, etc
- Onecta app: control your indoor from any location with an app, via your local network or internet.
- Quiet operation: down to 19dBA sound pressure level
- 3-D air flow combines vertical and horizontal auto swing to circulate a stream of warm or cool air right to the corners of even large spaces



FTXM-A | CTXM-A | FTXM-R | RXM-A9 | RXM-A8 | RXM-A

Efficiency data				FTXM + RXM	CTXM15A	20A + 20A	25A + 25A9	35A + 35A9	42A + 42A	50A + 50A8	60A + 60A	71A + 71A
Cooling capacity	Min./Nom./Max.			kW	Multi combination only	0.90/2.00/3.00	0.9/2.5/3.8	0.9/3.5/4.4	1.50/4.20/5.20	1.7/5/5.3	1.7/6/7	2.3/7.1/8.5
Heating capacity	Min./Nom./Max.			kW		0.80/2.50/4.50	0.8/2.8/5	0.8/4/5.5	1.50/5.40/6.20	1.7/5.8/6.5	1.7/7/8	2.3/8.2/10.2
Space cooling	Energy efficiency class											
	Capacity		Pdesign	kW		2.00	2.5	3.5	4.20	5	6	7.1
	SEER					9.47		9.25	8.11	7.55	6.9	6.2
	Annual energy consumption			kWh/a		74	92	132	181	232	304	401
Space heating (Average climate)	Energy efficiency class											
	Capacity		Pdesign	kW		2.30	2.4	2.5	4.00	4.5	4.8	6.2
	SCOP/A					5.20	5.2		5.00	4.76	4.3	4.1
	Annual energy consumption			kWh/a		619	647	673	1,120	1,326	1,562	2,116

Indoor unit				FTXM	CTXM15A	20A	25A	35A	42A	50A	60A	71A
Dimensions	Unit	HeightxWidthxDepth		mm	298x804x252						298x997x292	
Weight	Unit			kg	11.5						14.5	
Air filter	Type				Removable / washable							
Fan	Air flow rate	Cooling	Silent operation/Low/Medium/High	m^3/min	4.9/6.3/8.9/11.9			4.6/7.1/9.4/13.2	5.0/7.2/9.8/13.3	5.9/7.8/10.4/12.7	8.6/11.2/13.4/15.6	9.3/11.4/13.6/15.8
		Heating	Silent operation/Low/Medium/High	m^3/min	4.9/6.9/9.2/11.4			5.1/6.9/9.4/11.1	5.3/7.1/10.0/14.0	6.9/8.6/11.5/14.5	10.5/11.8/14.6/15.9	11.2/12.3/15.3/17.3
Sound power level	Cooling			dBA	54			58	60			
	Heating			dBA	53				60		59	61
Sound pressure level	Cooling	Silent operation/Low/High		dBA	19/25/41			19/29/45	21/30/45	27/33/46	30/37/46	32/38/47
	Heating	Silent operation/Low/High		dBA	20/26/39		20/27/39	20/28/39	21/29/45	31/34/46	33/36/45	34/37/46
Control systems	Infrared remote control				ARC466A86							
	Wired remote control				BRC073A1							

Outdoor unit				RXM	CTXM15A	20A	25A9	35A9	42A	50A8	60A	71A
Dimensions	Unit	HeightxWidthxDepth		mm	Multi combination only	610x923x367				610x923x367	734x954x401	
Weight	Unit			kg		36			40	40	49	55
Sound power level	Cooling	Nom.		dBA		58			61	61	63	66
	Heating	Nom.		dBA		58		60	61	62	63	67
Sound pressure level	Cooling	Nom.		dBA		46		47	48	48	48	47
	Heating	Nom.		dBA		47		49		49	49	48
Operation range	Cooling	Ambient	Min.~Max.	°CDB		-10 ~50				-10 ~50	-10 ~50	-10 ~46
	Heating	Ambient	Min.~Max.	°CWB		-21 ~18				-21~18	-21 ~18	-15 ~18
				°CDB		-20 ~24				-20~24	-20 ~24	-15 ~24
Refrigerant	Type					R-32				R-32	R-32	
	GWP					675				675	675	
	Charge			kg/tCO2Eq		0.95/0.65				0.95/0.65	1.15/0.78	
Piping connections	Liquid	OD		mm		6.4				6.4	6	
	Gas	OD		mm		9.5				12.5	12.7	15.9
	Piping length	OU - IU	Max.	m		20			30	30	30	
		System	Chargeless	m		10				10	10	
	Additional refrigerant charge			kg/m		0.02 (for piping length exceeding 10m)				0.02 (for piping length exceeding 10m)	0.02 (for piping length exceeding 10m)	
	Level difference	IU - OU	Max.	m		15			20	20	20	
Power supply	Phase/Hz/V					1~/50/220-240				1~/50/ 220-240	1~/50/220-240	
Current - 50Hz	A					10	13			13	16	20

(1) See separate drawing for operation range | Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. | Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. | See separate drawing for electrical data | Contains fluorinated greenhouse gases | Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 5m; level difference: 0m | Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m

comfora

Wall mounted unit

Discreet wall mounted unit providing high efficiency and comfort

- Practically inaudible: the unit runs so quietly, you will almost forget it is there.
- Onecta app: control your indoor from any location with an app, via your local network or internet.
- Voice command via Amazon Alexa or Google Assistant to control main functions such as set point, operation mode, fan speed, etc
- Silver allergen removal and air purifying filter captures allergens such as pollen to ensure a steady supply of clean air
- 3-D air flow combines vertical and horizontal auto swing to circulate a stream of warm or cool air right to the corners of even large spaces
- The unit's compact dimensions makes it ideal for renovation projects, especially for above door installation
- Seasonal efficiency values up to A++ in cooling and heating
- Space saving contemporary wall mounted design
- Up to 5 indoor units can be connected to 1 multi outdoor unit; all indoor units are individually controllable and do not need to be installed in the same room or at the same time. They operate simultaneously within the same heating or cooling mode.
- Remote monitoring possible on 20-50 class units.



FTXP-N | FTXP-N9 | RXP-N8 | RXP-N9

Efficiency data				FTXP + RXP	20N9 + 20N9	25N9 + 25N9	35N9 + 35N9	50N9 + 50N8	60N + 60N9	71N + 71N9
Cooling capacity	Min./Nom./Max.			kW	1.3/2.6	1.3/2.5/3	1.3/3.5/4	1.7/5/5.3	1.7/6/7	2.3/7.1/7.3
Heating capacity	Min./Nom./Max.			kW	1.3/2.5/3.5	1.3/3/4	1.3/4/4.8	1.7/5.6/6.5	1.7/7/8	2.3/8.2/9
Power input	Cooling		Min./Nom./Max.	kW	0.31/0.53/0.72	0.31/0.66/0.72	0.29/1.01/1.3	-/1.52/-	0.332/1.824/2.98	0.449/2.689/3.274
	Heating		Min./Nom./Max.	kW	0.25/0.52/0.95	0.25/0.69/0.95	0.29/0.99/1.29	-/1.51/-	0.456/1.928/2.787	0.617/2.571/3.306
Space cooling	Energy efficiency class									
	Capacity		Pdesign	kW	2	2.5	3.5	5	6	7.1
	SEER					7.2		7.1	6.82	6.2
	Annual energy consumption			kWh/a	97	121	170	246	308	401
Space heating (Average climate)	Energy efficiency class									
	Capacity		Pdesign	kW	2.2	2.4	2.8	4.6	4.8	6.2
	SCOP/A				4.65	4.61	4.64	4.3	4.1	4.01
	Annual energy consumption			kWh/a	663	728	845	1,498	1,638	2,166
Nominal efficiency	EER				3.75		3.48	3.3	3.29	2.64
	COP				4.77	4.36	4.02	3.71	3.63	3.19
	Annual energy consumption			kWh		-		758	912	1,345
	Energy labeling Directive	Cooling/Heating					A/A			D/D
Current - 50Hz	Maximum fuse amps (MFA)			A		-		13	16	

Indoor unit				FTXP	20N9	25N9	35N9	50N9	60N	71N
Dimensions	Unit	HeightxWidthxDepth		mm	286x770x225				295x990x263	
Weight	Unit			kg	9				13.5	
Air filter	Type				Removable/washable					
Fan	Air flow rate	Cooling	Silent operation/Low/Medium/High	m^3/min	4.4/5.6/7.5/9.6	4.4/5.8/7.5/9.9	4.5/6.3/8.3/11.5	6/7.6/9.3/11.8	9.2/11.8/14.4/16.8	10.1/11.8/14.4/16.8
		Heating	Silent operation/Low/Medium/High	m^3/min	5/6.6/8.6/10.6		5.1/7/9/11.5	7.4/8.2/9.5/11.9	11/12.4/15.3/17.9	
Sound power level	Cooling			dBA	55		58	59	60	62
	Heating			dBA	55		58	61	62	
Sound pressure level	Cooling	Silent operation/Low/High		dBA	19/25/39	19/26/40	20/27/43	27/34/46	30/36/45	32/37/46
	Heating	Silent operation/Low/High		dBA	21/28/39	21/28/40	21/29/40	30/33/44	32/35/44	33/36/45
Control systems	Infrared remote control				ARC480A78				ARC480A53	
	Wired remote control				BRC073A1				-	

Outdoor unit				RXP	20N9	25N9	35N9	50N8	60N9	71N9
Dimensions	Unit	HeightxWidthxDepth		mm	556x740x343			610x923x367	734x954x401	
Weight	Unit			kg	24		26	40	50	
Sound power level	Cooling	Nom.		dBA	60.0		62.0	61	63	66
	Heating	Nom.		dBA	61.0		62.0	62	63	65
Sound pressure level	Cooling	Nom./High		dBA	-/46		-/48	48/-	49/-	52/-
	Heating	Nom./High		dBA	-/47		-/48	49/-		52/-
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10~48					
	Heating	Ambient	Min.~Max.	°CWB	-15~18					
				°CDB	-15~24					
Refrigerant	Type				R-32					
	GWP				675.0			675		
	Charge			kg/tCO2Eq	0.55/0.37		0.70/0.48	0.95/0.65	1.15/0.78	
Piping connections	Liquid	OD		mm	6.4					
	Gas	OD		mm	9.5			12.7		
	Piping length	OU - IU	Max.	m	20			30		
		System	Chargeless	m	-			10	-	
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 10m)					
	Level difference	IU - OU	Max.	m	12			20		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50 /220-240					
Current - 50Hz	Maximum fuse amps (MFA)			A	16			13	16	

Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. | Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. | See separate drawing for operation range | See separate drawing for electrical data | Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 5m; level difference: 0m | Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m (horizontal) | Contains fluorinated greenhouse gases

¨ Integrated for 20-25-35-50 class. Standard for 60-71 class

sensira

Wall mounted unit

Wall mounted unit for low energy consumption and pleasant comfort

- Seasonal efficiency values up to A++ in cooling
- Onecta app: control your indoor from any location with an app, via your local network or internet.
- Voice command via Amazon Alexa or Google Assistant to control main functions such as set point, operation mode, fan speed, etc
- Quiet in operation down to 21 dBA



FTXF-F RXF-F RXF-D9

Efficiency data				FTXF + RXF	20F + 20F	25F + 25F	35F + 35F	42F + 42F	50F + 50F	60F + 60D9	71F + 71D9
Cooling capacity	Min./Nom./Max.			kW	1.3/2/2.4	1.3/2.5/2.8	1.3/3.3/3.8	1.4/4.2/4.3	1.3/5/5.3	1.7/6/7	2.3/7.1/7.3
Heating capacity	Min./Nom./Max.			kW	1.3/2.4/3.3	1.3/2.8/3.7	1.3/3.5/4.4	1.4/4.6/5	1.43/5.4/6.13	1.7/6.4/8	2.3/8.2/9
Power input	Cooling		Min./Nom./Max.	kW	0.31/0.592/0.72	0.31/0.772/1.05	0.31/1/1.4	0.31/1.27/1.5	0.27/1.52/1.74	-/1.85/-	-/2.77/-
	Heating		Min./Nom./Max.	kW	0.25/0.64/0.95	0.25/0.75/1.11	0.25/0.94/1.5	0.25/1.24/1.4	0.26/1.46/1.91	-/1.63/-	-/2.21/-
Space cooling	Energy efficiency class										
	Capacity		Pdesign	kW	2	2.5	3.5	4.2	5	6	7.1
	SEER						6.5			6.15	5.15
	Annual energy consumption			kWh/a	108	135	188	226	269	342	483
Space heating (Average climate)	Energy efficiency class										
	Capacity		Pdesign	kW	2.2	2.4	2.6	3.3	3.8	4.8	6.2
	SCOP/A					4.2		4.3	4.1	4.06	3.81
	Annual energy consumption			kWh/a	733	801	867	1,075	1,297	1,654	2,275
Nominal efficiency	EER				3.38	3.24		3.3		3.25	2.56
	COP				3.75	3.73	3.72	3.71		3.93	3.15
	Annual energy consumption			kWh	108	135	188	226	269	923	1,387
	Energy labeling Directive		Cooling/Heating				A/A				E/A
Current - 50Hz	Maximum fuse amps (MFA)			A			-			20	

Indoor unit				FTXF	20F	25F	35F	42F	50F	60F	71F
Dimensions	Unit	HeightxWidthxDepth		mm			286x770x225			295x990x263	
Weight	Unit			kg	8		8.5	9		13.5	
Air filter	Type						Removable/washable				
Fan	Air flow rate	Cooling	Silent operation/Low/Medium/High	m^3/min	4.3/6/8/9.8	4.3/6.2/8/10	4.4/6.4/8/11.5	4.9/6.9/9/12.6	6.4/7.2/9/12.6	10.7/12.2/14.8/17.3	
		Heating	Silent operation/Low/Medium/High	m^3/min	5.3/6.2/8.3/10.4	5.3/6.4/8.4/10.4	5.3/6.5/8.6/11.9	5.2/6.7/8.8/12.8	6.4/7.2/9.6/12.8	11.3/12.8/15.8/17.9	
Sound power level	Cooling			dBA	53	54		59		60	62
	Heating			dBA	55		56	59		62	
Sound pressure level	Cooling	Silent operation/Low/High		dBA	20/25/39	20/26/40	20/27/43	22/30/45	31/34/45	33/36/45	34/37/46
	Heating	Silent operation/Low/High		dBA	21/28/39	21/28/40	21/29/40	22/28/44	30/33/44	32/35/44	33/36/45
Control systems	Infrared remote control						ARC480A93			ARC470A1	
	Wired remote control						BRC073A1				

Outdoor unit				RXF/RXF	20F	25F	35F	42F	50F	60D9	71D9
Dimensions	Unit	HeightxWidthxDepth		mm		556 x740 x343			610 x923 x367	734 x870 x373	
Weight	Unit			kg		24		28	40	50	
Sound power level	Cooling	Nom.		dBA	60			61		63	66
	Heating	Nom.		dBA	60		62		61	63	65
Sound pressure level	Cooling	Nom./High		dBA	-/46		-/48			49 /-	52 /-
	Heating	Nom./High		dBA	-/47		-/48		-/49	49 /-	52 /-
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10 ~48						
	Heating	Ambient	Min.~Max.	°CWB	-15 ~18						
Refrigerant	Type				R-32						
	GWP				675						
	Charge			kg/tCO2Eq	0.42 /0.28		0.55 /0.37	0.75 /0.51	0.8 /0.54	1.15 /0.78	
Piping connections	Liquid	OD		mm	6					6.35	
	Gas	OD		mm	9.5				12.7		
	Piping length	OU - IU	Max.	m	20				30		
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 10m)						
	Level difference	IU - OU	Max.	m	12				20		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50 /220-240						
Current - 50Hz	Maximum fuse amps (MFA)			A	-					16	

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. Data for high efficiency series, Eurovent certified | Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. Data for standard efficiency series | See separate drawing for electrical data | Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 5m; level difference: 0m | Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m (horizontal) | Contains fluorinated greenhouse gases | See separate drawing for operation range | Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. | Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m.

* integrated for 20-50 class, standard for 60-71 class

sensira

Wall mounted unit

Wall mounted unit, offering good value for money

- Flat, stylish front panel blends easily within any interior décor and is easier to clean
- Onecta app: control your indoor from any location with an app, via your local network or internet.
- Seasonal efficiency values up to A++ in cooling



Efficiency data				FTXC + RXC	20E + 20E	25E + 25E	35E + 35E	50E + 50E	60E + 60E	71E + 71E
Cooling capacity	Min./Max.			kW	1.3/3.0		1.3/4.0	1.4/6.2	1.8/7.0	2.3/7.3
Heating capacity	Min./Max.			kW	1.30/4.00		1.30/4.80	1.36/6.60	1.48/8.00	2.30/9.00
Power input	Cooling		Min./Nom./Max.	kW	0.30/0.595/1.15	0.30/0.765/1.15	0.32/1.05/1.74	0.30/1.55/2.11	0.38/1.89/2.05	0.44/2.38/2.54
	Heating		Min./Nom./Max.	kW	0.28/0.670/1.35	0.28/0.750/1.35	0.28/1.07/1.57	0.27/1.52/1.85	0.33/1.68/2.35	0.50/2.46/2.74
Space cooling	Energy efficiency class						A+++			A++
	Capacity		Pdesign	kW	2.08	2.57	3.44	5.08	6.21	6.96
	SEER				6.89	6.84	6.87	6.45	6.40	5.30
	Annual energy consumption			kWh/a	106	131	175	276	339	460
Space heating (Average climate)	Energy efficiency class						A+++			A+
	Capacity		Pdesign	kW	1.87	2.23	2.24	3.90	4.10	6.35
	SCOP/A				4.40	4.45	4.28	4.42	4.24	3.81
	Annual energy consumption			kWh/a	595	701	733	1,234	1,353	2,332
Nominal efficiency	EER				3.36	3.35		3.29	3.30	2.98
	COP				3.73	3.79	3.74	3.71	3.81	3.25
	Energy labeling Directive		Cooling/Heating		A/A					C/C
Current - 50Hz	Maximum fuse amps (MFA)			A	16					

Indoor unit				FTXC	20E	25E	35E	50E	60E	71E
Dimensions	Unit	HeightxWidthxDepth		mm	288x770x234				297x990x273	
Weight	Unit			kg	9.00		9.50		13.0	
Air filter	Type				Removable / washable					
Fan	Air flow rate	Cooling	Silent operation/ Low/Medium/High	m^3/min	5.4/6.1/8.1/10.8		5.4/6.4/8.7/11.1	7.4/8.1/9.9/12.5	10.2/12.5/14.5/20.4	
Sound power level	Cooling			dBA	57		58	60	63	
Sound pressure level	Cooling	Silent operation/Low/High		dBA	21/26/40		22/26/41	30/33/47	31/38/48	
Control systems	Infrared remote control				ARC486A2					
	Wired remote control				-					

Outdoor unit				RXC	20E	25E	35E	50E	60E	71E
Dimensions	Unit	HeightxWidthxDepth		mm	550x658x273			615x845x300		695x930x350
Weight	Unit			kg	24.0		26.0	39.0		45.0
Sound power level	Cooling			dBA	58		60	65	66	69
Sound pressure level	Cooling	High		dBA	45		46	51	54	
Operation range	Cooling	Ambient	Min.~Max.	°CDB	10~46			-10 ~46		
	Heating	Ambient	Min.~Max.	°CWB	-15 ~18					
Refrigerant	Type				R-32					
	GWP				675.0					
	Charge			kg/TCO2Eq	0.550/0.371		0.750/0.506	1.00/0.675	1.10/0.743	1.15/0.776
Piping connections	Liquid	OD		mm	6.35					
	Gas	OD		mm	9.52			12.7		
	Piping length	OU - IU	Max.	m	20			30		
		System	Chargeless	m	8					
	Additional refrigerant charge			kg/m	0.01 (for piping length exceeding 7.5m)					
	Level difference IU - OU		Max.	m	15.0			20.0		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240					
Current - 50Hz	Maximum fuse amps (MFA)			A	16					

Contains fluorinated greenhouse gases



Perfera,

Go with the heating flow

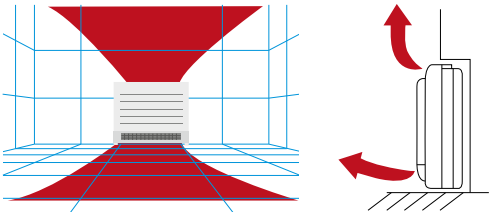
Perfera floor standing unit makes your world comfortable

Whatever you're planning to do with your day, you want to be comfortable while you're doing it. Whether it's the coolness of a summer breeze or the cosiness during winter, your living space needs that delicious feeling of wellbeing all year round. Perfera is unobtrusive and features a stylishly designed front panel, whisper-quiet operation and reduced airflow, turning each room into a true heaven of conspicuous comfort.

Multi connection on all capacities: from 2 to 5 port multi

Comfortable: dual airflow

Easier individual control of airflow
The dual airflow of the Perfera floor-standing unit is perfect for creating the ideal level of heating. Air is directed both upwards and downwards to deliver even warm air distribution. And when the Perfera is in heat mode, your feet stay warm and the temperature throughout the room is evenly distributed, guaranteeing maximum comfort. Sheer bliss!



Silent operation

Perfera uses **a specially designed turbo fan** that optimises airflow and creates high energy efficiency at low sound levels.

up to A++ in heating

up to A+++ in cooling

Air quality

Flash streamer/titanium apatite deodorising filter
Flash streamer: using electrons to trigger chemical reactions with airborne particles, the Flash Streamer removes allergens such as pollen and fungal allergens, eliminating unpleasant odours and providing better, cleaner air. And the titanium apatite deodorising filter works hard to combat smells such as tobacco smoke and pets.

Installation

Whether **built-in or wall-mounted**, the Perfera blends into the background and fits into your interior without any problem.



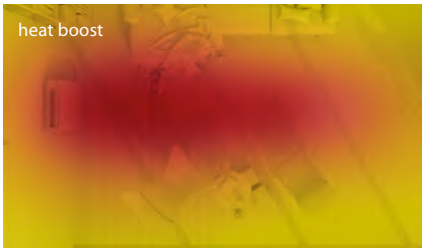


3 unique heating features

Heat boost

Heat boost quickly heats up your home when starting up your air-to-air heat pump. Set temperature is reached 14% faster* than a regular unit (pair only).

*Heat Plus test condition: 50 class, outdoor temperature 2°C - Indoor temperature 10°C, R/C setting: 23°C



Floor warming

The floor warming function optimises convection by distributing hot air from the bottom of the unit.



Heat plus

The heat plus function provides cosy heating by simulating radiant heat for 30 minutes. Afterwards, the previous settings are again activated.



Full connectivity

Onecta App
Control your system and enjoy maximum comfort just by using your voice. Using Amazon Alexa or Google Assistant, you can control the main functions such as the temperature setting, operating mode, fan speed and much more! (see page 347)

Residential Solutions Navigator (RSN)
Find your applicable solution in just a few clicks based on the number and size of the room. Calculate your savings with the Return on Investment calculator. (see page 341)

DCS Residential
From the professional portal, Installers can activate the remote monitoring allowing them to supervise your installation on multiple parameters, from their location. (see page 344)

perfera

Floor standing unit

Design floor standing unit for optimal heating comfort thanks to unique heating features

- Seasonal efficiency values up to A++ in heating, resulting in low running costs compared to gas boilers and electric heating
- Excellent contemporary design
- Combinable with all multi outdoor units (2 to 5 ports)
- Heat boost quickly heats up your home when starting up your air conditioner. Set temperature is reached 14% faster than a regular air conditioner (pair only)
- The floor warming function optimises convection by distributing hot air from the bottom of the unit
- The heat plus function provides 30 minutes cosy heating by simulating radiant heat
- Dual air discharge flow for better air distribution
- Using electrons to trigger chemical reactions with air borne particles, the Flash Streamer breaks down allergens such as pollen and fungal allergens and removes bothersome odours providing a better, cleaner air
- Onecta app: control your indoor from any location with an app, via your local network or internet.
- Quiet operation: down to 19dBA sound pressure level



CVXM-B FVXM-B RXM-A9 RXM-A8

Efficiency data				FVXM-B + RXM	CVXM20B	25B + 25A9	35B + 35A9	50B + 50A8
Cooling capacity	Min./Nom./Max.			kW	Multi connection only	1.3/2.4/3.5	1.4/3.4/4	1.4/5/5.4
Heating capacity	Min./Nom./Max.			kW		1.3/3.4/4.7	1.4/4.5/5.8	1.4/5.8/6.2
Power input	Cooling		Nom.	kW		0.52	0.8	1.36
	Heating		Nom.	kW		0.75	1.15	1.56
Space cooling	Energy efficiency class					A+++	A+++	
	Capacity		Pdesign	kW		2.4	3.4	5
	SEER					8.64	8.19	7.2
	Annual energy consumption			kWh/a		97	145	243
Space heating (Average climate)	Energy efficiency class					A+++		A+++
	Capacity		Pdesign	kW		2.3	2.8	4.1
	SCOP/A					4.7	4.68	4.26
	Annual energy consumption			kWh/a		686	837	1,346
Nominal efficiency	EER					4.63	4.23	3.67
	COP					4.55	3.92	3.71
	Annual energy consumption			kWh		259	402	681
	Energy labeling Directive			Cooling/Heating		A/A		
Current - 50Hz	Maximum fuse amps (MFA)			A		13		

Indoor unit				FVXM-B	CVXM20B	25B	35B	50B
Dimensions	Unit	HeightxWidthxDepth		mm	600x750x238	600x750x238		
Weight	Unit			kg	17	17		
Air filter	Type				Removable / washable	Removable/washable		
Fan	Air flow rate	Cooling	Silent operation/Low/Medium/High	m^3/min	4.1/4.9/7/8.7	4.1/4.9/7/8.7	4.1/4.9/7/9.2	5.4/6.6/9/11.6
		Heating	Silent operation/Low/Medium/High	m^3/min	4.1/5.6/7.2/9.2	4.1/5.6/7.2/9.2	4.1/5.6/7.2/9.8	5.9/8.4/10/12.8
Sound power level	Cooling			dBA	52.0	52	53	61
	Heating			dBA	52.0	52	53	62
Sound pressure level	Cooling	Silent operation/Low/High		dBA	22.0/25.0/38.0	20/25/38	20/25/39	27/31/44
	Heating	Silent operation/Low/High		dBA	21.0/25.0/38.0	19/25/38	19/25/39	29/35/46
Control systems	Infrared remote control				ARC466A66	ARC466A90		
	Wired remote control				BRC073A1	BRC073A1		

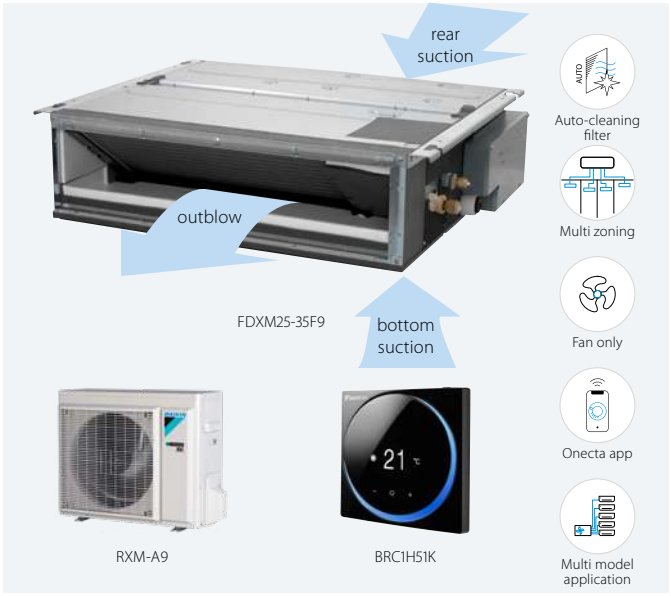
Outdoor unit				RXM/RXM	CVXM20B	25A9	35A9	50A8
Dimensions	Unit	HeightxWidthxDepth		mm	Multi connection only	610x923x367		
Weight	Unit			kg		36		40
Sound power level	Cooling	Nom.		dBA		58		61
	Heating	Nom.		dBA		58	60	62
Sound pressure level	Cooling	Nom.		dBA		46	47	48
	Heating	Nom.		dBA		47	49	
Operation range	Cooling	Ambient	Min.~Max.	°CDB		-10~50		-10~50(1)/46(1)
	Heating	Ambient	Min.~Max.	°CWB		-21~18		-21(1)/-15(1)~18
				°CDB		-20~24		-20(1)/-15(1)~24
Refrigerant	Type					R-32		
	GWP					675		
	Charge			kg/tCO2Eq		0.95/0.65		
Piping connections	Liquid	OD		mm		6.4		
	Gas	OD		mm		9.5		12.7
	Piping length	OU - IU	Max.	m		20		30
		System	Chargeless	m		10		
	Additional refrigerant charge			kg/m		0.02 (for piping length exceeding 10m)		
	Level difference	IU - OU	Max.	m		15		20
Power supply	Phase/Frequency/Voltage			Hz/V		1~/50 /220-240		
Current - 50Hz	Maximum fuse amps (MFA)			A		13		

(1)See separate drawing for operation range | See separate drawing for electrical data | Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. | Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. | Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB, 24°CWB; equivalent piping length: 5m | Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m | Contains fluorinated greenhouse gases

Concealed ceiling unit

Compact concealed ceiling unit, with a height of only 200mm

- Invisible unit as the unit is concealed in the ceiling: only the suction and discharge grilles are visible
- Compact dimensions, can easily be mounted in a ceiling void of only 240mm
- Medium external static pressure up to 40Pa facilitates unit use with flexible ducts of varying lengths
- Unified indoor unit range for R-32 and R-410A
- Auto cleaning filter option ensures maximum efficiency, comfort and reliability by regular filter cleaning
- Multi zoning kit allows multiple individually-controlled climate zones to be served by one indoor unit
- Onecta app (optional): control your indoor from any location with an app, via your local network or internet.
- Voice command via Amazon Alexa or Google Assistant to control main functions such as set point, operation mode, fan speed, etc
- Low energy consumption thanks to DC fan motor



FDXM-F9 RXM-A9 RXM-A8 RXM-A

Efficiency data				FDXM + RXM	25F9 + 25A9	35F9 + 35A9	50F9 + 50A8	60F9 + 60A
Cooling capacity	Min./Nom./Max.			kW	1.3/2.4/3	1.4/3.4/3.8	-/5/-	1.7/6/6.5
Heating capacity	Min./Nom./Max.			kW	1.3/3.2/4.5	1.4/4/5	-/5.8/-	1.7/7/7.1
Power input	Cooling		Nom.	kW	0.64	1.14	1.67	2.05
	Heating		Nom.	kW	0.8	1.15	1.94	2.18
Space cooling	Energy efficiency class				A	A	A	A
	Capacity		Pdesign	kW	2.4	3.4	5	6
	SEER				5.79	5.35	5.7	5.56
	Annual energy consumption			kWh/a	145	222	307	378
Space heating (Average climate)	Energy efficiency class				A		A	
	Capacity		Pdesign	kW	2.6	2.9	4	4.6
	SCOP/A				4.29	3.95	3.89	3.8
	Annual energy consumption			kWh/a	848	1,028	1,440	1,693
Nominal efficiency	EER				3.77	2.98	3	2.93
	COP				4	3.48	2.99	3.21
	Annual energy consumption			kWh	318	570	833	1,024
	Energy labeling Directive		Cooling/Heating		A/A	C/B	C/D	C/C
Current - 50Hz	Maximum fuse amps (MFA)			A		13		-

Indoor unit				FDXM	25F9	35F9	50F9	60F9
Dimensions	Unit	HeightxWidthxDepth		mm	200x750x620		200x1,150x620	
Weight	Unit			kg	21		28	
Air filter	Type				Removable/washable			
Fan	Air flow rate	Cooling	Low/Medium/High	m^3/min	7.3/8.0/8.7		13.3/14.6/15.8	13.5/14.8/16.0
		Heating	Low/Medium/High	m^3/min	7.3/8.0/8.7		13.3/14.6/15.8	13.5/14.8/16.0
	External static pressure	Nom.		Pa	30		40	
Sound power level	Cooling			dBA	53.0		55.0	56.0
	Heating			dBA	53.0		55.0	56.0
Sound pressure level	Cooling	Low/High		dBA	27.0/35.0		30.0/38.0	
	Heating	Low/High		dBA	27.0/35.0		30.0/38.0	
Control systems	Infrared remote control				-			
	Wired remote control				-			

Outdoor unit				RXM/RXM/RXM	25A9	35A9	50A8	60A
Dimensions	Unit	HeightxWidthxDepth		mm	610x923x367			734x954x401
Weight	Unit			kg	36		40	49
Sound power level	Cooling	Nom.		dBA	58		61	63
	Heating	Nom.		dBA	58	60	62	63
Sound pressure level	Cooling	Nom.		dBA	46	47	48	
	Heating	Nom.		dBA	47		49	
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10~50		-10~50(1)/46(1)	-10~50
	Heating	Ambient	Min.~Max.	°CWB	-21~18		-21(1)/-15(1)~18	-21~18
				°CDB	-20~24		-20(1)/-15(1)~24	-20~24
Refrigerant	Type				R-32			
	GWP				675			
	Charge			kg/tCO2Eq	0.95/0.65			1.15/0.78
Piping connections	Liquid	OD		mm	6.4			6
	Gas	OD		mm	9.5		12.7	
	Piping length	OU - IU	Max.	m	20		30	
		System	Chargeless	m	10			
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 10m)			
	Level difference	IU - OU	Max.	m	15		20	
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50 /220-240			
Current - 50Hz	Maximum fuse amps (MFA)			A	13			16

(1)See separate drawing for operation range | See separate drawing for electrical data | Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. | Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. | Contains fluorinated greenhouse gases

Less is More



Multi Split

Simply extend you comfort!

A Daikin multi split system offers you unexpected possibilities in creating a comfortable and cosy home. This is your solution to reduce limitations like environmental impact and financial aspects.

Less mounting space,

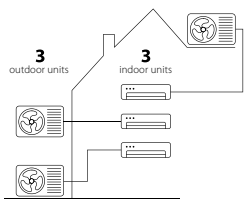
less visibility, less sound

- **Save space:** Drastically reduce the space required for placing a number of units on your facade
- **Less visibility:** Enjoy your nice ambience. Finding just one hiding place is much easier
- **Less noise:** Only one unit in operation is much quieter than two or more units

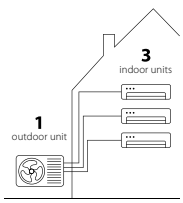
Lower power consumption, high efficiency

- **Less power consumption:** Our big compressors can work more efficiently than various smaller ones with the same capacity in sum. Also save a significant proportion of energy thanks to standby mode

Pair split or multi split combination – the direct system comparison



Conventional pair split installation for air-conditioning three rooms



Solution for the same situation with only one multi split outdoor unit

Easier installation, wiring, piping and maintenance

- **Save mounting equipment:** Wherever you want to place an outdoor unit, for every unit you will need a mounting for a secure fixing and problem-free operation
- **Save time:** The physical installation, wiring, drain piping as well as the initial setup of only one system is much easier and faster
- When using only one outdoor unit instead of two or more, the statistical probability of a **possible technical defect is reduced** with every unit that you do not need

More flexibility: Connect up to 5 indoor units of any style

There are many possibilities in comfort you can profit from a multi split solution:

- **Up to 5 indoor units** connectable to only one outdoor unit
- Every single indoor unit can be **regulated separately**
- Choose from a **greater variety** of connectable indoor unit types out of our split and Sky Air series
- Use low capacity indoor units specially **designed for small rooms** which can only be connected to a multi split system
- Are you planning an **additional indoor unit later on?** Just decide now for an outdoor unit with higher capacity and simply connect it later
- Have more than 5 rooms to connect? Our VRV systems provide the solution, find out more in the VRV chapter

Multi model application

- New design outlook for full range
- Seasonal efficiency values up to A+++ in cooling and heating thanks to its up-to-date technology and built-in intelligence
- Up to 5 indoor units can be connected to 1 multi outdoor unit; all indoor units are individually controllable and do not need to be installed in the same room or at the same time. They operate simultaneously within the same heating or cooling mode.
- Different types of indoor units can be connected: e.g. wall mounted, ceiling mounted cassette corner, concealed ceiling unit
- Outdoor units are fitted with a swing compressor, renowned for its low noise and high energy efficiency



2MXM40-50A9 3MXM40A9



2MXM68A9 3MXM52-68A9 4MXM80A9 5MXM90A9

Unique In the market *

Connectable indoor units	Wall mounted																				Concealed ceiling						Floor standing				Round flow			Fully flat				Ceiling suspended			Concealed floor standing			
	FTXJ-AW/B/S9					CTXA-CW/S/B	FTXA-CW/S/B					CTXM-A	FTXM-A							FTXP-N9	FDXM-F9			FBA-A9			CVXM-B	FVXM-B			FCAG-B			FFA-A9				FHA-A9			FNA-A9			
	20	25	35	42	50	15	20	25	35	42	50	15	20	25	35	42	50	60	71	20	25	35	25	35	50	60	35	50	60	20	25	35	50	35	50	60	25	35	50	60	35	50	60	25	35	50	60
2MXM40A9	•	•	•			•	•	•	•			•	•	•	•					•	•	•	•	•						•	•	•														
2MXM50A9	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				•	•	•	•	•	•					•	•	•	•				•	•	•							
2MXM68A9	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•	•	•	•				•	•	•	•				•	•	•	•						
3MXM40A9	•	•	•			•	•	•	•			•	•	•	•					•	•	•	•	•			•			•	•	•		•	•			•			•	•				
3MXM52A9	•	•	•	•	•	•	•	•	•	•	•	●*	●*	●*	●*	•	•			•	•	•	•	•	•		•	•		•	•	•	•	•	•			•			•	•	•			
3MXM68A9	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4MXM68A9	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4MXM80A9	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
5MXM90A9	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

It is not allowed to install 1 indoor unit connection.

*	Outdoor unit	Indoor unit	Energy label	
		CTXM-A/FTXM-A	Cooling	Heating
	3MXM52A2V1B9	1.5+1.5+3.5		
		1.5+2.0+3.5		
		1.5+2.5+3.5		
		2.0+2.0+3.5		
		2.0+2.5+3.5		
		2.5+2.5+3.5		

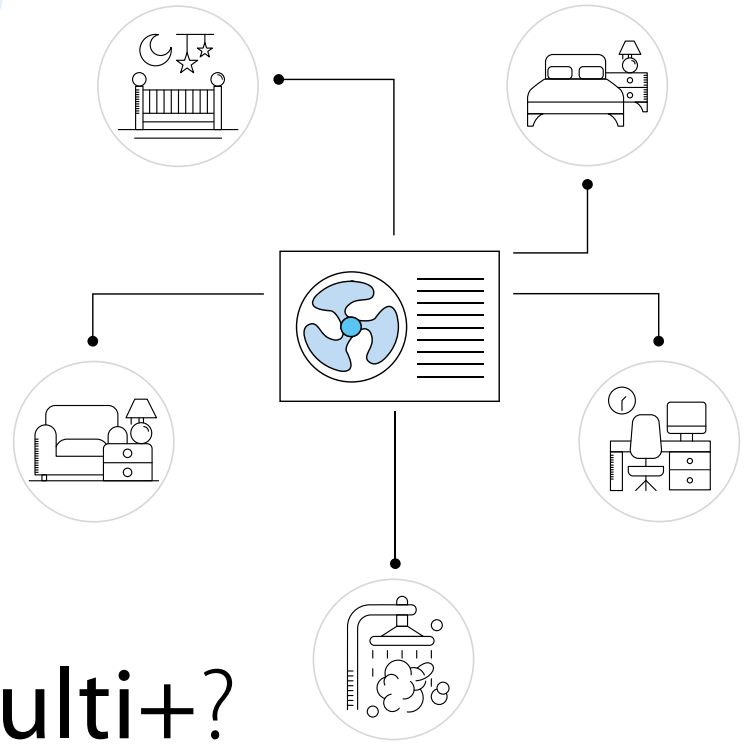
2MXM-A9 3MXM-A9 4MXM-A9 5MXM-A9

Outdoor unit					2MXM40A9	2MXM50A9	2MXM68A9	3MXM40A9	3MXM52A9	3MXM68A9	4MXM68A9	4MXM80A9	5MXM90A9
Dimensions	Unit	HeightxWidthxDepth		mm	552x852x350		734x974x408						
Weight	Unit			kg	36	41	60.0	57		62.0	63.0	67.0	68.0
Sound power level	Cooling			dBA	60		61.0	59.0		61.0			64.0
	Heating			dBA	62		61	59		61			64
Sound pressure level	Cooling	Nom.		dBA	46	48		46		48			52
	Heating	Nom.		dBA	48	50	48	47		48	49		52
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10~46								
	Heating	Ambient	Min.~Max.	°CWB	-15~18								
Refrigerant	Type				R-32								
	GWP				675.0								
	Charge			kg/TCO2Eq	0.88/0.60	1.15/0.78	2.00/1.35	1.80/1.22		2.00/1.35		2.40/1.62	
Piping connections	Liquid	OD		mm	6.4		6.35	6.4		6.35			
	Gas	OD		mm	9.5		9.50	9.5		9.50			
	Piping length	OU - IU	Max.	m	20 (1)		25 (1)						
		System	Chargeless	m	20		30						
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 20m)		0.02 (for piping length exceeding 30m)						
	Level difference	IU - OU	Max.	m	15.0								
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-230-240		1~/50/220-240						
Current - 50Hz	Maximum fuse amps (MFA)			A	16		20	16	20			25	32

(1) For one room | See separate drawing for operation range | See separate drawing for electrical data | Contains fluorinated greenhouse gases

Multi+

Only one system for domestic hot water + air-to-air heat pump



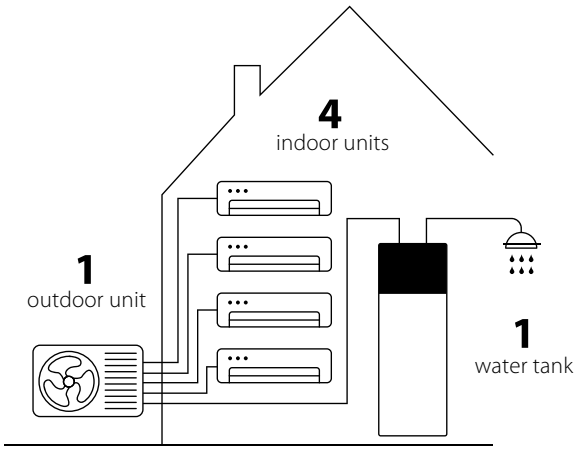
Why choose **Multi+**?

Your customer is considering to replace the existing heating system with electric heaters

Your customer's house:
- Up to 150 m² or less
- Up to 5 inhabitants

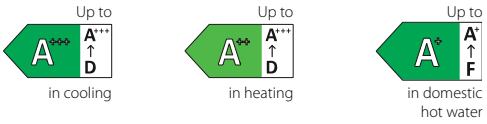
1| Flexibility

- Connect Multi+ outdoor unit with up to 4 indoor units and a 90 to 230 L tank to provide domestic hot water.
- Choose from a market-leading variety of indoor units. You can connect up to four different indoor units to cool or heat your rooms.



2 | Efficiency

- Replacing an old air conditioning system and electric hot water tank by Multi+ will give your customer a good return on investment



3 | Comfort

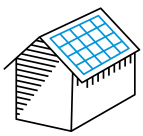
Benefit from high comfort and low expenses
Enjoy your preferred room temperature in up to four rooms at any time all year round. Daikin offers a variety of heat pumps with industry-leading comfort and air quality features. The domestic hot water tank is available in two sizes and perfectly matches the Multi+ outdoor unit. Two different operating modes adapt precisely to your comfort needs.



A user-friendly control lets you configure the entire system exactly the way you want it. The Onecta app enables scheduling, controlling and monitoring of each indoor unit and the domestic hot water tank – also via voice control.



NEW **HomeHub tank optimization by PV**
Thanks to the HomeHub, tank optimisation is possible between the tank and photovoltaic solar panels. For example, with the accessory EKRHH, the electric heater of the tank will be switched on if injection is higher than 1.5 kW. Therefore, during sunny days, hot water will always be available, while the house is cooled.



Make an accurate selection of your multi+ system in a few steps
see also p. 332



Multi+

Only one system for domestic hot water + air conditioning

- New design outlook for outdoor unit
- Seasonal efficiency values up to A+++ in cooling and A++ for air conditioning
- Domestic hot water efficiencies up to A+
- Wall mounted domestic hot water tank, **available in 90l and 120l**
- Up to 4 indoor units can be connected to 1 multi outdoor unit; all indoor units are individually controllable and do not need to be installed in the same room or at the same time. They operate simultaneously within the same heating or cooling mode.
- Different types of indoor units can be connected: e.g. wall mounted, ceiling mounted cassette corner, concealed ceiling unit
- The outdoor unit is fitted with a swing compressor, renowned for its low noise and high energy efficiency

NOTE: please always install a pressure relief valve when installing a domestic hot water tank



4MWXM-A9



EKHWET-BV3
90l and 120l

4MWXM-A9 EKHWET-BV3

Connectable indoor units	Wall mounted																			Concealed ceiling										Floor standing				Round flow		Fully flat		Ceiling mounted		Concealed floor standing			Domestic hot water tank	
	FTXJ-AW/S/B9					C/FTXA-CW/S/B						C/FTXM-A						FTXP-N9				FDXM-F9			FBA-A9							CVXM-B				FVXM-B				FCAG-B		FFA-A9		FHA-A9		FNA-A9			EKHWET-BV3	
	20	25	35	42	50	15	20	25	35	42	50	15	20	25	35	42	50	20	25	30	25	35	50	35	50	60	71	100	125	20	25	35	50	35	50	25	35	50	35	50	25	35	50	35	50	25	35	50	90	120
4MWXM52A9	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●*	●*			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

It is not allowed to install 1 indoor unit connection. Exception is 1 indoor unit connection of FBA60-125
* No combination with additional indoor units possible

Efficiency data					EKHWET90BV3 + 4MWXM52A9	EKHWET120BV3 + 4MWXM52A9
COPdhw	Average climate				2.19	2.30
	Warm climate				2.68	2.70
Heat-up time	Average climate			h:mm	1:18	2:15
	Warm climate			h:mm	1:53	3:35
Seasonal efficiency	Domestic hot water heating	General	Declared load profile		M	L
		Average climate	ηwh (water heating efficiency)	%	90	94
Water heating energy efficiency class*					A	
Set point				°C	44	47

*EN16147(2017)

Accessory				EKHWET	90BV3	120BV3
Casing	Colour				White + Black	
	Material				Sheet metal / Acrylonitrile Butadiene Styrene	
Dimensions	Unit	Height	Tank	mm	1,032	1,283
		Width		mm	510	
		Depth		mm	570	
Weight	Unit	Empty		kg	43	47
Tank	Water volume			l	89	118
	Material				Enamel coated steel acc. DIN4753TL2	
	Maximum water temperature			°C	75.0	
	Insulation	Heat loss		kWh/24h	1.1	1.3
	Energy efficiency class				B	C
	Standing heat loss	S		W	46	54
	Storage volume	V		l	89	118
Heat exchanger	Quantity				1	
	Domestic hot water	Quantity			1	
		Tube material			Aluminium	
		Operating pressure		bar	42	
Booster heater	Capacity			kW	1.2	

Outdoor unit				4MWXM	52A9
Dimensions	Unit	HeightxWidthxDepth		mm	734x974x401
Weight	Unit			kg	60
Sound power level	Cooling	Nom.		dBA	59
	Heating	Nom.		dBA	60
Sound pressure level	Cooling	Nom.		dBA	46
	Heating	Nom.		dBA	47
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10~46
	Heating	Ambient	Min.~Max.	°CWB	-15~24
Refrigerant	Type				R-32
	GWP				675
	Charge			kg/TCO2Eq	2.20/1.49
Piping connections DX	Liquid	OD		mm	6.35
	Gas	OD		mm	9.50/12.7
Piping connections DHW	Liquid	OD		mm	6.35
	Gas	OD		mm	9.50
Piping length	OU - IU		Max.	m	25
	System Chargeless			m	
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 30m)
Level difference	IU - OU		Max.	m	15
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240
Current - 50Hz	Maximum fuse amps (MFA)			A	20

Multi+

Only one system for domestic hot water + air conditioning

- New design outlook for outdoor unit
- Seasonal efficiency values up to A+++ in cooling and A++ for air conditioning
- Domestic hot water efficiencies up to A+
- Floor standing domestic hot water tank, **available in 180l and 230l**
- Up to 4 indoor units can be connected to 1 multi outdoor unit; all indoor units are individually controllable and do not need to be installed in the same room or at the same time. They operate simultaneously within the same heating or cooling mode.
- Different types of indoor units can be connected: e.g. wall mounted, ceiling mounted cassette corner, concealed ceiling unit
- The outdoor unit is fitted with a swing compressor, renowned for its low noise and high energy efficiency

NOTE: please always install a pressure relief valve when installing a domestic hot water tank



5MWXM-A9



CKHWS-BV3
180l and 230l

5MWXM-A9 CKHWS-BV3

| Multi+ outdoor | Indoor units | | |

Multi model application

- Seasonal efficiency values up to A+++ in cooling and A++ in heating thanks to its up-to-date technology and built-in intelligence
- Up to 3 indoor units can be connected to 1 multi outdoor unit; all indoor units are individually controllable and do not need to be installed in the same room or at the same time. They operate simultaneously within the same heating or cooling mode.
- Different types of indoor units can be connected: e.g. wall mounted, ceiling mounted cassette corner, concealed ceiling unit
- Outdoor units are fitted with a swing compressor, renowned for its low noise and high energy efficiency



2MXF40-50A



3MXF52-68A9

2MXF-A 3MXF-A9

Indoor units		CTXF20F	CTXF25F	CTXF35F
Outdoor units	2MXF40A	•	•	•
	2MXF50A	•	•	•
	3MXF52A9	•	•	•
	3MXF68A9	•	•	•

Outdoor Unit					2MXF40A	2MXF50A	3MXF52A9	3MXF68A9
Dimensions	Unit	HeightxWidthxDepth		mm	550x765x285		734x958x340	
Weight	Unit			kg	36	41	57.0	62.0
Sound power level	Cooling				60		59	61
Sound pressure level	Cooling	Nom./High		dBA	-/46	-/48	46.0/-	48.0/-
	Heating	Nom./High		dBA	-/48	-/50	47.0/-	48.0/-
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10~46			
	Heating	Ambient	Min.~Max.	°CWB	-15~18			
Refrigerant	Type				R-32			
	GWP				675			
	Charge			kg/TCO2Eq	0.88/0.60	1.15/0.78	1.80/1.22	2.00/1.35
Piping connections	Liquid	OD		mm	6.35			
	Gas	OD		mm	9.5			
	Piping length	OU - IU	Max.	m	20 (1)		25 (1)	
		System	Chargeless	m	20		30	
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 20m)		0.02 (for piping length exceeding 30m)	
	Level difference	IU - OU	Max.	m	15.0			
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-230-240			
Current - 50Hz	Maximum fuse amps (MFA)			A	16			20

(1) For one room | See separate drawing for operation range | See separate drawing for electrical data | Contains fluorinated greenhouse gases

Daikin Altherma hybrid heat pump

Hybrid technology combining gas, air to water and air to air heat pump for heating, cooling and hot water

- Daikin Altherma hybrid heat pump combines air-to-water heat pump technology with gas condensing technology
- Heating only wall mounted indoor unit of air-to-water heat pump
- Wall mounted gas module
- Depending on outdoor temperature, energy prices and internal heat load, Daikin Altherma hybrid heat pump always selects the most economical mode to operate
- Low investment cost: no need to replace the existing radiators (up to 80°C) and pipe work
- Provides sufficient heat in renovation applications as all heat loads are covered up to 32kW
- Easy and fast installation thanks to the compact dimensions and quick interconnections



CHYHBH-AV32 / EHYKOMB-AA2/3

Connectable indoor units	Wall mounted																				Concealed ceiling							Floor standing				Round flow			Fully flat				Ceiling suspended				Concealed floor standing				Hybrid heat pump	
	FTXJ-AW/S/B9					CTXA-CW/B/S	FTXA-CW/B/S					CTXM-A	FTXM-A							FTXP-N9	FDXM-F9				FBA-A9			CVXM-B	FVXM-B			FCAG-B			FFA-A9				FHA-A9				FNA-A9				CHYHBH-AV32	
	20	25	35	42	50	15	20	25	35	42	50	15	20	25	35	42	50	60	71	20	25	35	25	35	50	60	35	50	60	20	25	35	50	35	50	60	25	35	50	60	35	50	60	25	35	50	60	05	08
3MXM52A9	●	●	●	●	●	●	●	●	●	●	●	●*	●	●	●	●				●	●	●	●	●	●		●	●		●	●	●		●	●	●	●	●	●		●	●	●		●			●	
3MXM68A9	●	●	●	●	●	●	●	●	●	●	●	●*	●	●	●	●				●	●	●	●	●	●		●	●		●	●	●		●	●	●	●	●	●		●	●	●		●			●	
4MXM68A9	●	●	●	●	●	●	●	●	●	●	●	●*	●	●	●	●				●	●	●	●	●	●		●	●		●	●	●		●	●	●	●	●	●		●	●	●		●			●	
4MXM80A9	●	●	●	●	●	●	●	●	●	●	●	●*	●	●	●	●				●	●	●	●	●	●		●	●		●	●	●		●	●	●	●	●	●		●	●	●		●			●	●
5MXM90A9	●	●	●	●	●	●	●	●	●	●	●	●*	●	●	●	●				●	●	●	●	●	●		●	●		●	●	●		●	●	●	●	●	●		●	●	●		●			●	●

It is not allowed to install 1 indoor unit connection.

*	Outdoor unit	Indoor unit	Energy label	
		CTXM-A/FTXM-A	Cooling	Heating
	3MXM52A2V1B9	1.5+1.5+3.5		
		1.5+2.0+3.5		
		1.5+2.5+3.5		
		2.0+2.0+3.5		
		2.0+2.5+3.5		
		2.5+2.5+3.5		

CHYHBH-AV32 EHYKOMB-AA2 EHYKOMB-AA3

Efficiency data					CHYHBH05AV32 /3MXM52A9	CHYHBH05AV32 /3MXM68A9	CHYHBH05AV32 /4MXM68A9	CHYHBH05AV32 /4MXM80A9	CHYHBH08AV32 /4MXM80A9	CHYHBH05AV32 /5MXM90A9	CHYHBH08AV32 /5MXM590A9
Heating capacity	Nom.			kW	4.41 (1)	4.50 (1)			6.78 (1)	4.50 (1)	6.78 (1)
COP					4.49 (1)	3.91 (1)		4.04 (1)	4.17 (1)	4.04 (1)	4.17 (1)
Pump					51.80 (1)						
Seasonal efficiency	Domestic hot water heating	General	Declared load profile		XL						
		Average climate	ηwh (water heating efficiency)	%	96						
Water heating energy efficiency class					A						

(1) DB/WB 7°C/6°C - LWC 35°C (DT=5°C), boiler bypassed

Indoor Unit (Hydrobox)					CHYHBH05AV32	CHYHBH08AV32
Casing	Colour				White	
	Material				Precoated sheet metal	
Dimensions	Unit	HeightxWidthxDepth		mm	902x450x164	
Weight	Unit			kg	30.0	
Operation range	Heating	Ambient	Min.~Max.	°C	-15 ~24	
		Water side	Min.~Max.	°C	25 ~50	

Indoor unit (Boiler)					EHYKOMB33AA2/AA3
Central heating	Heat input Qn (net calorific value)	Nom	Min/Max	kW	6.2/7.6/7.6/22.1/27.0/27.0
	Output Pn at 80/60°C	Min/Nom		kW	6.7/8.2/8.2/21.8/26.6/26.6
	Efficiency	Net calorific value		%	98/107
	Operation range	Min/Max		°C	15/80
Domestic hot water	Output	Min/Nom		kW	7.6/32.7
	Water flow	Rate	Nom	l/min	9.0/15.0
	Operation range	Min/Max		°C	40/65
Gas	Connection	Diameter		mm	15
	Consumption (G20)	Min/Max		m^3/h	0.78/3.39
	Consumption (G25)	Min/Max		m^3/h	0.90/3.93
	Consumption (G31)	Min/Max		m^3/h	0.30/1.29
Supply air	Connection			mm	100
	Concentric				1
Flue gas	Connection			mm	60
Casing	Colour				White - RAL9010
	Material				Precoated sheet metal
Dimensions	Unit	HeightxWidthxDepth	Casing	mm	710x450x240
Weight	Unit	Empty		kg	36
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/230
Electrical power consumption	Max.			W	55
	Standby			W	2



Siesta wall mounted units

The Siesta range offers a wide variety of wall mounted units with high efficiency values up to A+++. They provide excellent levels of comfort, and almost all indoor units are connectable to a multi outdoor unit.

Siesta Bluevolution range R-32

Type	Model	Product name		20	25	35	42	50	60	71
Siesta Wall mounted	**Wall mounted unit** Siesta, discreet, modern unit for optimal efficiency and comfort thanks to 2-area motion detection sensor and Flash Streamer	ATXM-A		(multi only)	A+++ A+ D	A+++ A+ D		A+++ A+ D		
	Wall mounted unit Siesta, providing high efficiency and comfort while reducing the environmental impact	ATXP-N9		A+++ A+ D	A+++ A+ D	A+++ A+ D				
	Siesta wall mounted unit Wall mounted unit for low energy consumption and pleasant comfort	ATXF-F		A+++ A+ D	A+++ A+ D	A+++ A+ D	A+++ A+ D	A+++ A+ D	A+++ A+ D	A A+ D
	Siesta wall mounted unit Wall mounted unit, offering good value for money and ensuring a steady supply of clean air	ATXC-E		A+++ A+ D	A+++ A+ D	A+++ A+ D		A+++ A+ D	A+++ A+ D	A A+ D

Siesta

Wall mounted unit

Attractive, wall mounted Siesta unit with perfect indoor air quality

- Comfort+: perfect comfort with even temperatures throughout the room. The double flaps direct the air towards the ceiling in cooling and along the wall in heating.
- Seasonal efficiency values up to A+++ in cooling and heating
- 2-area motion detection sensor: air flow is sent to a zone other than where the person is located at that moment; if no people are detected, the unit will automatically switch over to the energy-efficient setting. (larger capacity area)
- Heat boost quickly heats up your home when starting up your air conditioner. Set temperature is reached 14% faster than a regular air conditioner (pair only)
- Using electrons to trigger chemical reactions with air borne particles, the Flash Streamer breaks down allergens such as pollen and fungal allergens and removes bothersome odours providing a better, cleaner air
- Silver allergen removal and air purifying filter captures allergens such as pollen to ensure a steady supply of clean air
- Onecta app: control your indoor from any location with an app, via your local network or internet.
- Voice command via Amazon Alexa or Google Assistant to control main functions such as set point, operation mode, fan speed, etc
- Quiet operation: down to 19dBA sound pressure level
- 3-D air flow combines vertical and horizontal auto swing to circulate a stream of warm or cool air right to the corners of even large spaces



ATXM-A | ARXM-A | ARXM-A9 | ARXM-A8

Efficiency data				ATXM + ARXM	ATXM20A	25A + 25A	35A + 35A9	50A + 50A8
Cooling capacity	Min./Nom./Max.			kW	multi combinations only	0.90/2.50/3.80	0.9/3.5/4.4	1.7/5/5.3
Heating capacity	Min./Nom./Max.			kW		0.80/2.80/5.00	0.8/4/5.5	1.7/5.8/6.5
Power input	Cooling		Nom.	kW		0.49	0.78	1.45
	Heating		Nom.	kW		0.56	0.9	1.49
Space cooling	Energy efficiency class							
	Capacity		Pdesign	kW		2.50	3.5	5
	SEER					9.30	9.1	7.4
	Annual energy consumption			kWh/a		94	135	236
Space heating (Average climate)	Energy efficiency class							
	Capacity		Pdesign	kW		2.40	2.5	4.5
	SCOP/A					5.15		4.7
	Annual energy consumption			kWh/a		652	679	1,340
Nominal efficiency	EER					5.10	4.5	3.45
	COP					5.00	4.45	3.9
	Annual energy consumption			kWh		245	389	725
	Energy labeling Directive			Cooling/Heating			A/A	
Current - 50Hz	Maximum fuse amps (MFA)			A			13	

Indoor unit				ATXM	20A	25A	35A	50A
Dimensions	Unit	HeightxWidthxDepth		mm	298x804x252		298x804x252	
Weight	Unit			kg	11.5		11.5	
Air filter	Type				Removable / washable		Removable/washable	
Fan	Air flow rate	Cooling	Silent operation/Low/Medium/High	m^3/min	4.9/6.3/8.9/11.9	4.9/6.3/8.9/11.9	4.6/7.1/9.4/13.2	5.9/7.8/10.4/12.7
		Heating	Silent operation/Low/Medium/High	m^3/min	4.9/6.9/9.2/11.4	4.9/6.9/9.2/11.4	5.1/6.9/9.4/11.1	6.9/8.6/11.5/14.5
Sound power level	Cooling			dBA	55	55	58	60
	Heating			dBA	54	54		60
Sound pressure level	Cooling	Silent operation/Low/High		dBA	19/25/41	19/25/41	19/29/45	27/33/46
	Heating	Silent operation/Low/High		dBA	20/26/39	20/27/39	20/28/39	31/34/46
Control systems	Infrared remote control				ARC466A86		ARC466A86	
	Wired remote control				-		BRC073A1	

Outdoor unit				ARXM	ATXM20A	25A	35A9	50A8
Dimensions	Unit	HeightxWidthxDepth		mm	multi combinations only		610x923x367	
Weight	Unit			kg		36		40
Sound power level	Cooling	Nom.		dBA		58		61
	Heating	Nom.		dBA		58	60	62
Sound pressure level	Cooling	Nom.		dBA		46	47	48
	Heating	Nom.		dBA		47	49	
Operation range	Cooling	Ambient	Min.~Max.	°CDB		-10~50		-10~50(1)/46(1)
	Heating	Ambient	Min.~Max.	°CWB		-21~18		-21(1)/-15(1)~18
				°CDB		-20~24		-20(1)/-15(1)~24
Refrigerant	Type						R-32	
	GWP						675	
	Charge			kg/tCO2Eq			0.95/0.65	
Piping connections	Liquid	OD		mm			6.4	
	Gas	OD		mm		9.5		12.7
	Piping length	OU - IU	Max.	m		20		30
		System	Chargeless	m			10	
	Additional refrigerant charge			kg/m			0.02 (for piping length exceeding 10m)	
	Level difference	IU - OU	Max.	m		15		20
Power supply	Phase/Frequency/Voltage			Hz/V			1~/50 /220-240	
Current - 50Hz	Maximum fuse amps (MFA)			A			13	

(1)See separate drawing for operation range | See separate drawing for electrical data | Contains fluorinated greenhouse gases | Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. | Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. | Contains fluorinated greenhouse gases

Wall mounted unit

Discreet Siesta wall mounted unit providing high efficiency and comfort

- Practically inaudible: the unit runs so quietly, you will almost forget it is there.
- Onecta app: control your indoor from any location with an app, via your local network or internet.
- Voice command via Amazon Alexa or Google Assistant to control main functions such as set point, operation mode, fan speed, etc
- 3-D air flow combines vertical and horizontal auto swing to circulate a stream of warm or cool air right to the corners of even large spaces
- The unit's compact dimensions makes it ideal for renovation projects, especially for above door installation
- Seasonal efficiency values up to A++ in cooling and heating
- Space saving contemporary wall mounted design



ATXP20-35N9

Onecta app

Energy saving during operation standby

3-D Air flow

Multi model application



ARXP-N9



ARC480A78



integrated

ATXP-N9 ARXP-N9

Efficiency data				ATXP + ARXP	20N9 + 20N9	25N9 + 25N9	35N9 + 35N9
Cooling capacity	Nom.			kW	1.3/2.00/2.6	1.3/2.50/3.0	1.3/3.50/4.0
Heating capacity	Nom./Max.			kW	1.30/2.50/3.50	1.30/3.00/4.00	1.30/4.00/4.80
Power input	Cooling		Min./Max.	kW	0.31/0.540/0.72	0.31/0.670/0.72	0.29/1.01/1.30
	Heating		Min.	kW	0.25/0.520/0.95	0.25/0.690/0.95	0.29/0.990/1.29
Space cooling	Energy efficiency class						
	Capacity		Pdesign	kW	2.00	2.50	3.50
	SEER					6.90	
	Annual energy consumption			kWh/a	101	127	178
Space heating (Average climate)	Energy efficiency class						
	Capacity		Pdesign	kW	2.20	2.40	2.80
	SCOP/A				4.64	4.60	4.62
	Annual energy consumption			kWh/a	663	730	847
Nominal efficiency	EER				3.71		3.46
	COP				4.77	4.36	4.02
	Energy labeling Directive		Cooling/Heating			A/A	
Current - 50Hz	Maximum fuse amps (MFA)			A		16	

Indoor unit				ATXP	20N9	25N9	35N9
Dimensions	Unit	HeightxWidthxDepth		mm		286 x770 x225	
Weight	Unit			kg	8.50		9.00
Air filter	Type					Removable / washable	
Fan	Air flow rate	Cooling	Silentoperation/Low/Medium/High	m^3/min	4.2/5.6/7.4/9.5	4.2/5.8/7.7/9.7	4.5/6.3/8.3/11.5
		Heating	Silentoperation/Low/Medium/High	m^3/min	5.2/6.2/8.1/10.4	5.2/6.4/8.1/10.4	5.1/7.0/9.0/11.5
Sound power level	Cooling			dBA	55		58
	Heating			dBA	55		58
Sound pressure level	Cooling	Silent operation/Low/High		dBA	19/25/39	19/26/40	20/27/43
	Heating	Silent operation/Low/High		dBA	21/28/39	21/28/40	21/29/40
Control systems	Infrared remote control					ARC480A78	
	Wired remote control					BRC073A1	

Outdoor unit				ARXP	20N9	25N9	35N9
Dimensions	Unit	HeightxWidthxDepth		mm		556 x740 x343	
Weight	Unit			kg	24		26
Sound power level	Cooling	Nom.		dBA	60.0		62.0
	Heating	Nom.		dBA	61.0		62.0
Sound pressure level	Cooling	High		dBA	46		48
	Heating	High		dBA	47		48
Operation range	Cooling	Ambient	Min.~Max.	°CDB		-10 ~48	
	Heating	Ambient	Min.~Max.	°CWB		-15 ~18	
				°CDB		-15 ~24	
Refrigerant	Type					R-32	
	GWP					675.0	
	Charge			kg/tCO2Eq	0.55 /0.37		0.70 /0.48
Piping connections	Liquid	OD		mm		6.4	
	Gas	OD		mm		9.5	
	Piping length	OU - IU	Max.	m		20	
	Additional refrigerant charge			kg/m		0.02 (for piping length exceeding 10m)	
	Level difference	IU - OU	Max.	m		12	
Power supply	Phase/Frequency/Voltage			Hz/V		1~/50 /220-240	
Current - 50Hz	Maximum fuse amps (MFA)			A		16	

See separate drawing for electrical data | Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. Data for high efficiency series, Eurovent certified | Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. Data for standard efficiency series | Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 5m; level difference: 0m | Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m (horizontal) | Contains fluorinated greenhouse gases

Wall mounted unit

Siesta wall mounted unit for low energy consumption and pleasant comfort

- Onecta app: control your indoor from any location with an app, via your local network or internet.
- Voice command via Amazon Alexa or Google Assistant to control main functions such as set point, operation mode, fan speed, etc
- Quiet in operation down to 20 dBA



ATXF-F

Onecta app

Energy saving during operation standby



ARXF20-35F



ARC470A1
60,71 class



Integrated for 20-50 class
BRP069C47 for 60-71 class

ATXF-F ARXF-F ARXF-A9

Efficiency data				**ATXF + ARXF**	**20F + 20F**	**25F + 25F**	**35F + 35F**	**42F + 42F**	**50F + 50F**
Cooling capacity	Min./Nom./Max.			kW	1.3/2/2.4	1.3/2.5/2.8	1.3/3.3/3.8	1.4/4.2/4.3	1.3/5/5.3
Heating capacity	Min./Nom./Max.			kW	1.3/2.4/3.3	1.3/2.8/3.7	1.3/3.5/4.4	1.4/4.6/5	1.43/5.4/6.13
Power input	Cooling		Min./Nom./Max.	kW	0.31/0.601/0.72	0.31/0.772/1.05	0.31/1.01/1.4	0.31/1.28/1.5	0.27/1.52/1.74
	Heating		Min./Nom./Max.	kW	0.25/0.64/0.95	0.25/0.75/1.11	0.25/0.94/1.5	0.25/1.24/1.4	0.26/1.46/1.91
Space cooling	Energy efficiency class								
	Capacity		Pdesign	kW	2	2.5	3.5	4.2	5
	SEER					6.4		6.45	
	Annual energy consumption			kWh/a	109	137	191	228	271
Space heating (Average climate)	Energy efficiency class						A+		
	Capacity		Pdesign	kW	2.2	2.4	2.6	3.3	3.8
	SCOP/A				4.16	4.2		4.25	4.07
	Annual energy consumption			kWh/a	740	801	867	1,088	1,309
Nominal efficiency	EER				3.33	3.24		3.27	
	COP				3.75	3.73	3.72	3.71	
	Annual energy consumption			kWh	109	137	191	228	271
	Energy labeling Directive		Cooling/Heating				A/A		

Indoor unit				**ATXF**	**20F**	**25F**	**35F**	**42F**	**50F**
Dimensions	Unit	HeightxWidthxDepth		mm			286x770x225		
Weight	Unit			kg	8		8.5	9	
Air filter	Type						Removable/washable		
Fan	Air flow rate	Cooling	Silent operation/ Low/Medium/High	m^3/min	4.3/6/8/9.8	4.3/6.2/8/10	4.4/6.4/8/11.5	4.9/6.9/9/12.6	6.4/7.2/9/12.6
		Heating	Silent operation/ Low/Medium/High	m^3/min	5.3/6.2/8.3/10.4	5.3/6.4/8.4/10.4	5.3/6.5/8.6/11.9	5.2/6.7/8.8/12.8	6.4/7.2/9.6/12.8
Sound power level	Cooling			dBA	53	54		59	
	Heating			dBA	55		56	59	
Sound pressure level	Cooling	Silent operation/Low/High		dBA	20/25/39	20/26/40	20/27/43	22/30/45	31/34/45
	Heating	Silent operation/Low/High		dBA	21/28/39	21/28/40	21/29/40	22/28/44	30/33/44
Control systems	Infrared remote control						ARC480A93		
	Wired remote control						BRC073A1		

Outdoor unit				**ARXF**	**20F**	**25F**	**35F**	**42F**	**50F**
Dimensions	Unit	HeightxWidthxDepth		mm		556x740x343			610x923x367
Weight	Unit			kg		24		28	40
Sound power level	Cooling	Nom.		dBA		60		61	
	Heating	Nom.		dBA		60		62	61
Sound pressure level	Cooling	High		dBA		46		48	
	Heating	High		dBA		47		48	49
Operation range	Cooling	Ambient	Min.~Max.	°CDB			-10~48		
	Heating	Ambient	Min.~Max.	°CWB			-15~18		
Refrigerant	Type						R-32		
	GWP						675		
	Charge			kg/tCO2Eq		0.42/0.28	0.55/0.37	0.75/0.51	0.8/0.54
Piping connections	Liquid	OD		mm			6		
	Gas	OD		mm			9.5		12.7
	Piping length	OU - IU	Max.	m			20		30
	Additional refrigerant charge			kg/m			0.02 (for piping length exceeding 10m)		
	Level difference	IU - OU	Max.	m			12		20
Power supply	Phase/Frequency/Voltage			Hz/V			1~/50 /220-240		

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. Data for high efficiency series, Eurovent certified | Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. Data for standard efficiency series | See separate drawing for electrical data | Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 5m; level difference: 0m | Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m (horizontal) | Contains fluorinated greenhouse gases | See separate drawing for operation range

Wall mounted unit

Siesta

Wall mounted unit, offering good value for money

- Flat, stylish front panel blends easily within any interior décor and is easier to clean
- Onecta app: control your indoor from any location with an app, via your local network or internet.
- Seasonal efficiency values up to A++ in cooling



ATXC-E ARXC-E

Efficiency data				ATXC + ARXC	20E + 20E	25E + 25E	35E + 35E	50E + 50E	60E + 60E	71E + 71E
Cooling capacity	Min./Max.			kW	1.3/3.0		1.3/4.0	1.4/6.2	1.8/7.0	2.3/7.3
Heating capacity	Min./Max.			kW	1.30/4.00		1.30/4.80	1.36/6.60	1.48/8.00	2.30/9.00
Power input	Cooling	Min./Nom./Max.		kW	0.30/0.600/1.15	0.30/0.775/1.15	0.32/1.06/1.74	0.30/1.57/2.11	0.38/1.92/2.05	0.44/2.41/2.54
	Heating	Min./Nom./Max.		kW	0.28/0.670/1.35	0.28/0.755/1.35	0.28/1.08/1.57	0.27/1.52/1.85	0.33/1.73/2.35	0.50/2.49/2.74
Space cooling	Energy efficiency class									
	Capacity	Pdesign		kW	2.08	2.57	3.44	5.08	6.21	6.96
	SEER				6.81	6.74	6.78	6.40	6.38	5.25
	Annual energy consumption			kWh/a	107	134	177	278	341	464
Space heating (Average climate)	Energy efficiency class									
	Capacity	Pdesign		kW	1.87	2.23	2.24	3.90	4.10	6.35
	SCOP/A				4.39	4.41	4.26	4.37	4.19	3.81
	Annual energy consumption			kWh/a	597	708	737	1,249	1,371	2,332
Nominal efficiency	EER					3.33		3.25		2.95
	COP				3.73	3.76	3.72	3.71	3.71	3.21
	Energy labeling Directive	Cooling/Heating					A/A			C/C
Current - 50Hz	Maximum fuse amps (MFA)			A			16			

Indoor unit				ATXC	20E	25E	35E	50E	60E	71E
Dimensions	Unit	HeightxWidthxDepth		mm			288x770x234		297x990x273	
Weight	Unit			kg	9.00		9.50		13.0	
Air filter	Type						Removable / washable			
Fan	Air flow rate	Cooling	Silent operation/ Low/Medium/High	m^3/min	5.4/6.1/8.1/10.8		5.4/6.4/8.7/11.1	7.4/8.1/9.9/12.5	10.2/12.5/14.5/20.4	
Sound power level	Cooling			dBA	57		58	60	63	
Sound pressure level	Cooling	Silent operation/Low/High		dBA	21/26/40		22/26/41	30/33/47	31/38/48	
Control systems	Infrared remote control						ARC486A2			
	Wired remote control						-			

Outdoor unit				ARXC	20E	25E	35E	50E	60E	71E
Dimensions	Unit	HeightxWidthxDepth		mm	550x658x273			615x845x300		695x930x350
Weight	Unit			kg	24.0		26.0	39.0		45.0
Sound power level	Cooling			dBA	58		60	65	66	69
Sound pressure level	Cooling	High		dBA	45		46	51	54	
Operation range	Cooling	Ambient	Min.~Max.	°CDB	10 ~46			-10 ~46		
	Heating	Ambient	Min.~Max.	°CWB	-15 ~18					
Refrigerant	Type				R-32					
	GWP				675.0					
	Charge			kg/TCO2Eq	0.550/0.371		0.750/0.506	1.00/0.675	1.10/0.743	1.15/0.776
Piping connections	Liquid	OD		mm	6.35					
	Gas	OD		mm	9.52			12.7		
	Piping length	OU - IU	Max.	m	20			30		
		System	Chargeless	m	8					
	Additional refrigerant charge			kg/m	0.01 (for piping length exceeding 7.5m)					
	Level difference	IU - OU	Max.	m	15.0			20.0		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240					
Current - 50Hz	Maximum fuse amps (MFA)			A	16					

Multi model application

- Seasonal efficiency values up to A+++ in cooling and A++ in heating thanks to its up-to-date technology and built-in intelligence
- Up to 3 indoor units can be connected to 1 siesta multi outdoor unit; all indoor units are individually controllable and do not need to be installed in the same room or at the same time. They operate simultaneously within the same heating or cooling mode.
- Different types of wall mounted indoor units can be connected
- Outdoor units are fitted with a swing compressor, renowned for its low noise and high energy efficiency



Inverter technology

2AMXM40-50M9

2AMXM-M9 3AMXM-N9

Indoor units		ATXM20A	ATXM25A	ATXM35A	ATXM50A
Outdoor units	2AMXM40M9	•	•	•	
	2AMXM50M9	•	•	•	•
	3AMXM52N9	•	•	•	•

Indoor Unit		2AMXM/3AMXM		2AMXM40M9	2AMXM50M9	3AMXM52N9
Dimensions	Unit	HeightxWidthxDepth	mm	552x852x350		734x974x401
Weight	Unit		kg	36	41	57.0
Sound power level	Cooling		dBA	60		59.0
	Heating		dBA	62		59.0
Sound pressure level	Cooling	Nom./High	dBA	-/46	-/48	46.0/-
	Heating	Nom./High	dBA	-/48	-/50	47.0/-
Operation range	Cooling	Ambient Min.~Max.	°CDB	-10~46		
	Heating	Ambient Min.~Max.	°CWB	-15~18		
Refrigerant	Type			R-32		
	GWP			675		675.0
	Charge		kg/TCO2Eq	0.88/0.60	1.15/0.78	1.80/1.22
Piping connections	Liquid	OD	mm	6.4		6.35
	Gas	OD	mm	9.5		9.50
	Piping length	OU - IU Max.	m	20 (1)		25 (1)
		System Chargeless	m	20		30
	Additional refrigerant charge		kg/m	0.02 (for piping length exceeding 20m)		0.02 (for piping length exceeding 30m)
	Level difference IU - OU	Max.	m	15.0		
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/220-230-240		1~/50/220-240
Current - 50Hz	Maximum fuse amps (MFA)		A	16		20

(1) For one room | See separate drawing for operation range | See separate drawing for electrical data | Contains fluorinated greenhouse gases

Multi model application

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- Different types of wall mounted indoor units can be connected
- Outdoor units are fitted with a swing compressor, renowned for its low noise and high energy efficiency



Inverter technology

2AMXF-A

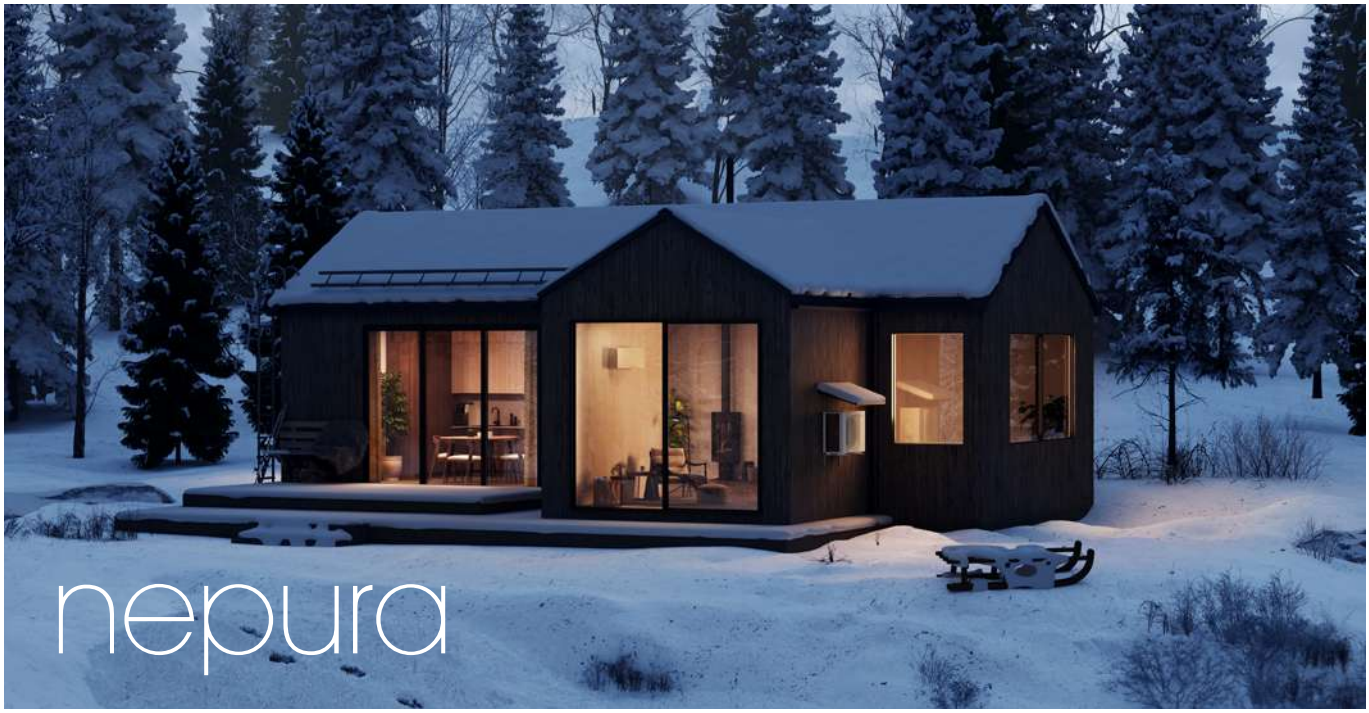
2AMXF-A 3AMXF-A9

Indoor units		ATXF25G	ATXF35G
Outdoor units	2AMXF40A	•	•
	2AMXF50A	•	•
	3AMXF52A9	•	•

Indoor Unit				2AMXF/3AMXF	2AMXF40A	2AMXF50A	3AMXF52A
Dimensions	Unit	HeightxWidthxDepth		mm	550x765x285		734x958x340
Weight	Unit			kg	36	41	57.0
Sound power level	Cooling	Nom.		dBA	60		59
Sound pressure level	Cooling	Nom./High		dBA	-/46	-/48	46.0 /-
	Heating	Nom./High		dBA	-/48	-/50	47.0 /-
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10 ~46		
	Heating	Ambient	Min.~Max.	°CWB	-15~18		
Refrigerant	Type				R-32		
	GWP				675.0		
	Charge			kg/TCO2Eq	0.88/0.60	1.15/0.78	1.80/1.22
Piping connections	Liquid	OD		mm	6.35		
	Gas	OD		mm	9.50		
	Piping length	OU - IU	Max.	m	20.0		25 (1)
		System	Chargeless	m	20		30
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 20m)		0.02 (for piping length exceeding 30m)
	Level difference	IU - OU	Max.	m	15.0		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-230-240		1~/50/220-240
Current - 50Hz	Maximum fuse amps (MFA)			A	16		20

(1) For one room | See separate drawing for operation range | See separate drawing for electrical data | Contains fluorinated greenhouse gases

MAKE YOUR BED
NOT THAT KIND OF GIRL
Wanderlust
Life in Pictures



Enjoy ultimate comfort inside, whatever the weather outside

In extreme cold conditions, you just want reliable heating

When everything freezes, Nepura doesn't
Nepura is engineered to keep you warm, even in the coldest of winters.

With a guaranteed operation down to -30°C, the air-to-air heat pump is the perfect fit for Scandinavian environments.

This is reached thanks to:
- full bottom plate: easier to lift and better drainage of defrosted water
- drain pan heater: quick defrost and only activated when needed
- **Recommended option:** drain hose heater: connectable to the dedicated terminal strip on the PCB of the outdoor unit



Weather compensation UNIQUE
Nepura heat pump will automatically regulate itself when it gets colder outside, maintaining a continuous indoor temperature and keeping your place comfortably warm.

Activated at temperatures below 7°C, the function allows for 4 different levels of intensity compensation.

Available on Perfera wall mounted FTXTM.



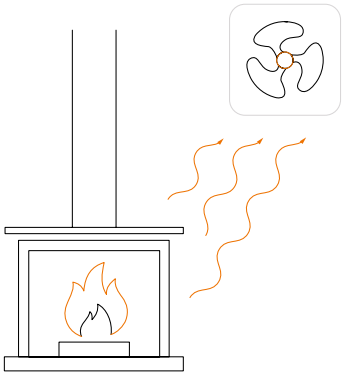
DCS Residential
From the Stand By Me portal, installers can activate the remote monitoring allowing them to monitor your installation on multiple parameters remotely.

The fireplace scenario

Rooms with a fireplace or other heat source tend to be warmer.

As soon as your room reaches the desired temperature due to the secondary heat source, the fireplace logic function starts automatically. The indoor unit stops heating, but the fan keeps rotating to distribute the hot air across the room. The airflow rate depends on the difference between the set temperature and the room temperature.

Available on Daikin Emura, Stylish and Perfera wall mounted.

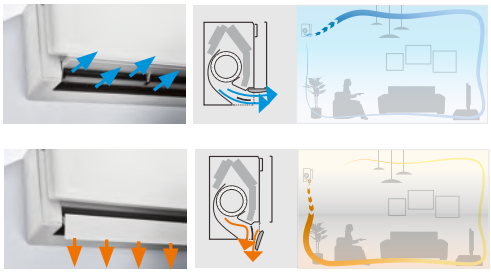


Measured temperature in the room ≥ set temperature = Thermo off Fan auto adjust according to ΔT

The Coanda effect

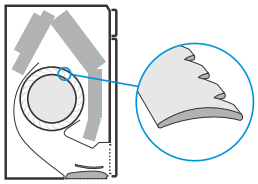
The **Coanda effect** optimises the airflow for a comfortable climate. By using specially designed flaps, a more focused airflow allows a better temperature distribution throughout the whole room.

Available in heating and cooling for Daikin Emura and Stylish.



Quiet operation

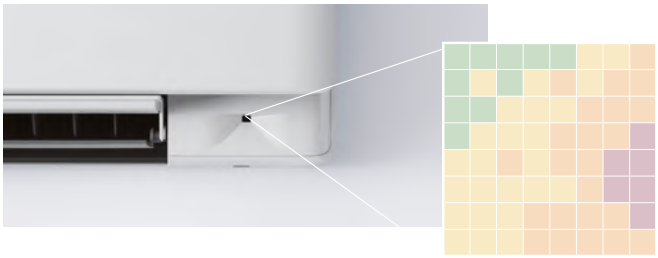
Daikin Emura and Stylish use a **specially designed fan** to optimise airflow for higher energy efficiency at low sound levels. Sound dispersion and noise reduction are the results of a special fan design.



Intelligent thermal sensor

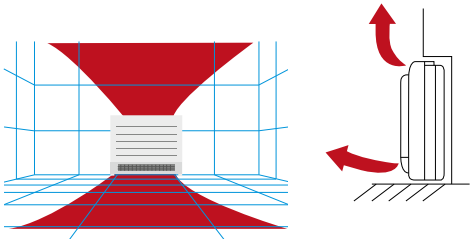
The intelligent thermal sensor detects a room's temperature. It distributes the air evenly throughout the room before switching to an air-flow pattern that directs warm and cool air to areas that need it.

Available on Daikin Emura and Stylish.



Dual Airflow

Our floor standing FVXTM is ideal for heating comfort thanks to its dual airflow. Wide air flow coverage in both upward and downward directions allowing even air distribution.
During heating operating, your feet stay warm and the temperature through the room is evenly distributed. Maximum comfort will be ensured.



Type	Model	Product Name		25	30	35	40
NEW Wall mounted	**Daikin Emura:** Design that speaks for itself, even at ambient temperatures down to -30°C	FTXTJ-AW/B			(pair only)*		
Wall mounted	**Stylish:** Where innovation meets creativity, even at ambient temperatures down to -30°C	FTXTA-CW/B			(pair only)*		
Wall mounted	**Perfera:** Discreet, modern design for optimal efficiency and comfort thanks to 2- area motion detector sensor	FTXTM-A			(pair only)*		(pair only)*
Wall mounted	**Comfora:** Wall mounted unit, providing high efficiency and comfort while reducing the environmental impact	FTXTP-A		(pair only)*		(pair only)*	
Floor Standing Unit	**Design floor standing unit** for optimal heating comfort thanks to unique heating features	FVXTM-B			(pair only)		

* Space heating - average climate

Wall mounted unit

Design that speaks for itself, even at ambient temperatures down to -30°C

- Guaranteed heating operation at low ambient temperature, down to -30°C
- Remarkable blend of iconic design and engineering excellence with an elegant finish in matt crystal white
- When installed close to a heating device (e.g. fire place or oven) and the set temperature is reached, the fan keeps on running to have an even temperature throughout the whole house
- The Coanda effect optimises the airflow for a comfortable climate. By using specially designed flaps, a more focused airflow allows a better temperature distribution throughout the whole room
- The intelligent thermal sensor determines the current room temperature and distributes air evenly throughout the room before switching to an airflow pattern that directs warm or cool air to areas that need it
- Heat boost quickly heats up your home when starting up your air conditioner. Set temperature is reached 14% faster than a regular air conditioner (pair only)
- Using electrons to trigger chemical reactions with air borne particles, the Flash Streamer breaks down allergens such as pollen and fungal allergens and removes bothersome odours providing a better, cleaner air
- Voice command via Amazon Alexa or Google Assistant to control main functions such as set point, operation mode, fan speed, etc
- Onecta app: control your indoor from any location with an app, via your local network or internet.
- Whisper quiet in operation: the operating of the unit can hardly be heard. The sound pressure level goes down to 19dBA!



FTXTJ-AW FTXTJ-AB RXTJ-A

Efficiency data				FTXTJ + RXTJ-A	30AW + 30A	30AB + 30A
Cooling capacity	Min./Nom./Max.			kW	1.2/3.0/4.6	
Heating capacity	Min./Nom./Max.			kW	0.8/3.2/7.10	
Power input	Cooling		Nom.	kW	0.61	
	Heating		Nom.	kW	0.64	
Space cooling	Energy efficiency class				A+++	
	Capacity		Pdesign	kW	3.00	
	SEER				8.75	
	Annual energy consumption			kWh/a	120	
Space heating (Average climate)	Energy efficiency class				A+++	
	Capacity		Pdesign	kW	3.00	
	SCOP/A				5.17	
	Annual energy consumption			kWh/a	812	
Space heating (Cold climate)	Energy efficiency class				A+	
	Capacity		Pdesignh	kW	4.38	
	Annual energy consumption			kWh/a	2,248	
	SCOP/C				4.09	
Nominal efficiency	EER				4.89	
	COP				5.01	
	Annual energy consumption			kWh	307	
	Energy labeling Directive		Cooling/Heating		A/A	
Current - 50Hz	Maximum fuse amps (MFA)			A	16	

Indoor unit				FTXTJ	30AW	30AB
Dimensions	Unit	HeightxWidthxDepth		mm	305x900x212	
Weight	Unit			kg	12	
Air filter	Type				Removable / washable	
Fan	Air flow rate	Cooling	Silent operation/ Low/Medium/High	m^3/min	4.9/5.9/8.8/12.1	
		Heating	Silent operation/ Low/Medium/High	m^3/min	4.5/6.5/7.8/12.3	
Sound power level	Cooling			dBA	60.0	
	Heating			dBA	60.0	
Sound pressure level	Cooling	Silent operation/Low/High		dBA	20.0/25.0/43.0	
	Heating	Silent operation/Low/High		dBA	19.0/24.0/41.0	
Control systems	Infrared remote control				ARC488A4W	ARC488A4K
	Wired remote control				BRC073A1	

Outdoor unit				RXTJ-A	30A
Dimensions	Unit	HeightxWidthxDepth		mm	605x930x376
Weight	Unit			kg	42
Sound power level	Cooling			dBA	-
Sound pressure level	Cooling	Nom.		dBA	48.0
	Heating	Nom.		dBA	49.0
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10~46
	Heating	Ambient	Min.~Max.	°CWB	-31~18
Refrigerant	Type				R-32
	GWP				675.0
	Charge			kg/TCO2Eq	0.97/0.66
Piping connections	Liquid	OD		mm	6.35
	Gas	OD		mm	9.50
	Piping length	OU - IU	Max.	m	20
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 10m)
	Level difference	IU - OU	Max.	m	15.0
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240
Current - 50Hz	Maximum fuse amps (MFA)			A	16

Contains fluorinated greenhouse gases | See separate drawing for operation range | See separate drawing for electrical data | Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB, 24°CWB; equivalent piping length: 5m | Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m

stylish

Wall mounted unit

Where innovation meets creativity, even at ambient temperatures down to -30°C

- Guaranteed heating operation at low ambient temperature, down to -30°C
- When installed close to a heating device (e.g. fire place or oven) and the set temperature is reached, the fan keeps on running to have an even temperature throughout the whole house
- A compact and functional design suitable for all interiors in a matt crystal white finish
- A compact and functional design suitable for all interiors in a matt black finish
- The Coanda effect optimises the airflow for a comfortable climate. By using specially designed flaps, a more focused airflow allows a better temperature distribution throughout the whole room
- The intelligent thermal sensor determines the current room temperature and distributes air evenly throughout the room before switching to an airflow pattern that directs warm or cool air to areas that need it
- Onecta app: control your indoor from any location with an app, via your local network or internet.
- Voice command via Amazon Alexa or Google Assistant to control main functions such as set point, operation mode, fan speed, etc
- Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
- Seasonal efficiency values up to A+++ in cooling and heating
- Using electrons to trigger chemical reactions with air borne particles, the Flash Streamer breaks down allergens such as pollen and fungal allergens and removes bothersome odours providing a better, cleaner air



- Practically inaudible: the unit runs so quietly, you will almost forget it is there.
- Heat boost quickly heats up your home when starting up your air conditioner. Set temperature is reached 14% faster than a regular air conditioner (pair only)

FTXTA-CW FTXTA-CB RXTA-C

Efficiency data				**FTXTA + RXTA**	**30CW + 30C**	**30CB + 30C**
Cooling capacity	Min./Nom./Max.			kW	1.2/3.0/4.6	
Heating capacity	Min./Nom./Max.			kW	0.8/3.2/7.10	
Power input	Cooling		Nom.	kW	0.62	
	Heating		Nom.	kW	0.64	
Space cooling	Energy efficiency class				A+++	
	Capacity		Pdesign	kW	3.00	
	SEER				8.75	
	Annual energy consumption			kWh/a	120	
Space heating (Average climate)	Energy efficiency class				A+++	
	Capacity		Pdesign	kW	3.00	
	SCOP/A				5.17	
	Annual energy consumption			kWh/a	812	
Space heating (Cold climate)	Energy efficiency class				A+	
	Capacity		Pdesignh	kW	4.38	
	Annual energy consumption			kWh/a	2,248	
	SCOP/C				4.09	
Nominal efficiency	EER				4.89	
	COP				5.01	
	Annual energy consumption			kWh	310	
	Energy labeling Directive			Cooling/Heating	A/A	
Current - 50Hz	Maximum fuse amps (MFA)			A	16	

Indoor unit				**FTXTA**	**30CW**	**30CB**
Dimensions	Unit	HeightxWidthxDepth		mm	295x798x189	
Weight	Unit			kg	12	
Air filter	Type				Removable / washable	
Fan	Air flow rate	Cooling	Silentoperation/Low/Medium/High	m^3/min	4.9/6.0/9.0/13.1	
		Heating	Silentoperation/Low/Medium/High	m^3/min	5.0/5.8/8.2/12.3	
Sound power level	Cooling			dBA	60.0	
	Heating			dBA	60.0	
Sound pressure level	Cooling	Silent operation/Low/High		dBA	20.0/25.0/43.0	
	Heating	Silent operation/Low/High		dBA	19.0/24.0/41.0	
Control systems	Infrared remote control				ARC466A84	
	Wired remote control				BRC073A4	

Outdoor unit				**RXTA**	**30C**
Dimensions	Unit	HeightxWidthxDepth		mm	605x930x376
Weight	Unit			kg	42
Sound power level	Cooling			dBA	60
	Heating			dBA	60
Sound pressure level	Cooling	Nom.		dBA	48.0
	Heating	Nom.		dBA	49.0
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10~46
	Heating	Ambient	Min.~Max.	°CWB	-31~18
Refrigerant	Type				R-32
	GWP				675.0
	Charge			kg/TCO2Eq	0.97/0.66
Piping connections	Liquid	OD		mm	6.35
	Gas	OD		mm	9.50
	Piping length	OU - IU	Max.	m	20
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 10m)
	Level difference	IU - OU	Max.	m	15.0
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240
Current - 50Hz	Maximum fuse amps (MFA)			A	16

Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB, 24°CWB; equivalent piping length: 5m | Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m | See separate drawing for electrical data | Contains fluorinated greenhouse gases | See separate drawing for operation range

perfera

Wall mounted unit

Attractive, wall mounted design with perfect indoor air quality down to -30°C

- Guaranteed heating operation at low ambient temperature, down to -30°C
- With weather compensation, heating reacts to colder outside temperatures maintaining a comfortable indoor climate with no drop-off while optimising energy use
- Comfort+: perfect comfort with homogeneous temperature throughout the room. The double flaps direct the air towards the ceiling in heating and along the wall in heating.
- Seasonal efficiency values up to A+++ in cooling and heating
- When installed close to a heating device (e.g. fire place or oven) and the set temperature is reached, the fan keeps on running to have an even temperature throughout the whole house
- Heat boost quickly heats up your home when starting up your air conditioner. Set temperature is reached 14% faster than a regular air conditioner (pair only)
- Using electrons to trigger chemical reactions with air borne particles, the Flash Streamer breaks down allergens such as pollen and fungal allergens and removes bothersome odours providing a better, cleaner air
- Onecta app: control your indoor from any location with an app, via your local network or internet.
- Silver allergen removal and air purifying filter captures allergens such as pollen to ensure a steady supply of clean air
- Voice command via Amazon Alexa or Google Assistant to control main functions such as set point, operation mode, fan speed, etc
- Quiet operation: down to 19dBA sound pressure level
- 3-D air flow combines vertical and horizontal auto swing to circulate a stream of warm or cool air right to the corners of even large spaces



- Sleek, unobtrusive air conditioning unit that matches European sensibilities regarding interior design
- 2 area motion detection sensor: air flow is sent to a zone other than where the person is located at that moment; if no people are detected, the unit will automatically switch over to the energy-efficient setting.

FTXTM-A RXTM-A

Efficiency data				**FTXTM + RXTM**	**30A + 30A**	**40A + 40A**
Cooling capacity	Min./Nom./Max.			kW	1.2/3/4.6	1.2/4/5.2
Heating capacity	Min./Nom./Max.			kW	0.8/3.2/7.4	0.9/4/8.8
Power input	Cooling		Nom.	kW	0.58	0.85
	Heating		Nom.	kW	0.6	0.73
Space cooling	Energy efficiency class					
	Capacity		Pdesign	kW	3	4
	SEER				8.65	8.95
	Annual energy consumption			kWh/a	121	156
Space heating (Average climate)	Energy efficiency class					
	Capacity		Pdesign	kW	3	3.8
	SCOP/A				5.35	5.5
	Annual energy consumption			kWh/a	785	967
Space heating (Cold climate)	Energy efficiency class					
	Capacity		Pdesignh	kW	4.38	5.55
	Annual energy consumption			kWh/a	2,176	2,639
	SCOP/C				4.23	4.42
Nominal efficiency	EER				5.13	4.71
	COP				5.3	5.51
	Annual energy consumption			kWh	292	425
	Energy labeling Directive			Cooling/Heating	A/A	
Current - 50Hz	Maximum fuse amps (MFA)			A	16	

Indoor unit				**FTXTM**	**30A**	**40A**
Dimensions	Unit	HeightxWidthxDepth		mm	298x804x252	298x997x292
Weight	Unit			kg	12	15
Air filter	Type				Removable / washable	
Fan	Air flow rate	Cooling	Silent operation/Low/Medium/High	m^3/min	4.8/5.6/8.1/13.2	4.8/5.6/9.2/15.1
		Heating	Silent operation/Low/Medium/High	m^3/min	4.7/5.6/7.7/11.7	5.1/6/10/17
Sound power level	Cooling			dBA	60	
	Heating			dBA	59	60
Sound pressure level	Cooling	Silent operation/Low/High		dBA	21/25/45	20/24/46
	Heating	Silent operation/Low/High		dBA	19/22/43	19/22/46
Control systems	Infrared remote control				ARC466A83	
	Wired remote control				-	

Outdoor unit				**RXTM**	**30A**	**40A**
Dimensions	Unit	HeightxWidthxDepth		mm	605x930x376	
Weight	Unit			kg	42	
Sound power level	Cooling			dBA	60.0	
	Heating			dBA	60.0	
Sound pressure level	Cooling	Nom.		dBA	48.0	
	Heating	Nom.		dBA	49.0	
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10 ~46	
	Heating	Ambient	Min.~Max.	°CWB	-31 ~18	
				°CDB	-30 ~24	
Refrigerant	Type				R-32	
	GWP				675.0	
	Charge			kg/tCO2Eq	0.97/0.66	
Piping connections	Liquid	OD		mm	6.35	
	Gas	OD		mm	9.50	
	Piping length	OU - IU	Max.	m	20	
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 10m)	
	Level difference	IU - OU	Max.	m	15.0	
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240	
Current - 50Hz	Maximum fuse amps (MFA)			A	16	

Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. | Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. | See separate drawing for operation range | See separate drawing for electrical data | Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB, 24°CWB; equivalent piping length: 5m | Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m | Contains fluorinated greenhouse gases

comfora

Wall mounted unit

Wall mounted unit providing high efficiency and comfort down to -30°C

- Guaranteed heating operation at low ambient temperature, down to -30°C
- The unit's compact dimensions makes it ideal for renovation projects, especially for above door installation
- Seasonal efficiency values: full range A++ in cooling and heating
- 3-D air flow combines vertical and horizontal auto swing to circulate a stream of warm or cool air right to the corners of even large spaces
- Onecta app: control your indoor from any location with an app, via your local network or internet.
- Voice command via Amazon Alexa or Google Assistant to control main functions such as set point, operation mode, fan speed, etc
- Space saving contemporary wall mounted design

FTXTP-A RXTP-A



Efficiency data				FTXTP + RXTP	25A + 25A	35A + 35A
Cooling capacity	Min./Nom./Max.			kW	1/2.5/4.1	1/3.5/4.5
Heating capacity	Min./Nom./Max.			kW	1/3.2/6.2	1/4/6.7
Power input	Cooling		Nom.	kW	0.51	0.74
	Heating		Nom.	kW	0.65	0.88
Space cooling	Energy efficiency class				A+++	
	Capacity		Pdesign	kW	2.5	3.5
	SEER				8.55	
	Annual energy consumption			kWh/a	102	143
Space heating (Average climate)	Energy efficiency class				A+++	
	Capacity		Pdesign	kW	2.5	3
	SCOP/A				4.95	4.85
	Annual energy consumption			kWh/a	707	866
Space heating (Cold climate)	Energy efficiency class				A	
	Capacity		Pdesignh	kW	3.65	4.38
	Annual energy consumption			kWh/a	1,937	2,426
	SCOP/C				3.96	3.79
Nominal efficiency	EER				4.88	4.71
	COP				4.99	4.55
	Annual energy consumption			kWh	256	372
	Energy labeling Directive			Cooling/Heating	A/A	
Current - 50Hz	Maximum fuse amps (MFA)			A	16	

Indoor unit				FTXTP	25A	35A
Dimensions	Unit	HeightxWidthxDepth		mm	286x770x225	
Weight	Unit			kg	9	
Air filter	Type				Removable / washable	
Fan	Air flow rate	Cooling	Silent operation/Low/Medium/High	m^3/min	3.7/5/7.9/11	
		Heating	Silent operation/Low/Medium/High	m^3/min	4.4/5.5/9/10.5	
Sound power level	Cooling			dBA	58	
	Heating			dBA	58	
Sound pressure level	Cooling	Silent operation/Low/High		dBA	21/26/43	
	Heating	Silent operation/Low/High		dBA	21/26/43	
Control systems	Infrared remote control				ARC480A78	
	Wired remote control				-	

Outdoor unit				RXTP	25A	35A
Dimensions	Unit	HeightxWidthxDepth		mm	605x930x376	
Weight	Unit			kg	42	
Sound power level	Cooling	Nom.		dBA	60.0	
	Heating	Nom.		dBA	60.0	
Sound pressure level	Cooling	Nom.		dBA	48	
	Heating	Nom.		dBA	49.0	
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10 ~46	
	Heating	Ambient	Min.~Max.	°CWB	-31 ~18	
				°CDB	-30 ~24	
Refrigerant	Type				R-32	
	GWP				675.0	
	Charge			kg/tCO2Eq	0.97/0.66	
Piping connections	Liquid	OD		mm	6.35	
	Gas	OD		mm	9.5	
	Piping length	OU - IU	Max.	m	20	
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 10m)	
	Level difference	IU - OU	Max.	m	15.0	
Power supply	Phase/Hz/V				1~/50/220-240	
Current - 50Hz	A				16	

Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. | Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. | See separate drawing for operation range | See separate drawing for electrical data | Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB, 24°CWB; equivalent piping length: 5m | Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m

Floor standing unit

Design floor standing unit for optimal heating comfort down to -30°C thanks to unique heating features

- Guaranteed heating operation at low ambient temperature, down to -30°C
- Seasonal efficiency values: full range A++ in cooling and heating
- Heat boost quickly heats up your home when starting up your air conditioner. Set temperature is reached 14% faster than a regular air conditioner (pair only)
- The floor warming function optimises convection by distributing hot air from the bottom of the unit
- The heat plus function provides 30 minutes cosy heating by simulating radiant heat
- Using electrons to trigger chemical reactions with air borne particles, the Flash Streamer breaks down allergens such as pollen and fungal allergens and removes bothersome odours providing a better, cleaner air
- Excellent contemporary design
- Dual air discharge flow for better air distribution
- Onecta app: control your indoor from any location with an app, via your local network or internet.
- Quiet operation: down to 19dBA sound pressure level



FVXTM-B RXTM-A

Efficiency data					FVXTM + RXTM	30B + 30A
Cooling capacity	Min./Nom./Max.				kW	1.2/3.0/4.4
Heating capacity	Min./Nom./Max.				kW	1.2/3.2/6.20
Power input	Cooling		Nom.		kW	0.69
	Heating		Nom.		kW	0.72
Space cooling	Energy efficiency class					A+++
	Capacity		Pdesign		kW	3.00
	SEER					7.50
	Annual energy consumption				kWh/a	140
Space heating (Average climate)	Energy efficiency class					A+++
	Capacity		Pdesign		kW	3.00
	SCOP/A					4.75
	Annual energy consumption				kWh/a	884
Space heating (Cold climate)	Energy efficiency class					A+
	Capacity		Pdesignh		kW	4.38
	Annual energy consumption				kWh/a	2,483
	SCOP/C					3.70
Nominal efficiency	EER					4.35
	COP					4.45
	Annual energy consumption				kWh	345
	Energy labeling Directive		Cooling/Heating			A/A
Current - 50Hz	Maximum fuse amps (MFA)				A	16

Indoor unit					FVXTM	30B
Dimensions	Unit	HeightxWidthxDepth			mm	600x750x238
Weight	Unit				kg	17
Air filter	Type					Removable / washable
Fan	Air flow rate	Cooling	Silentoperation/ Low/Medium/High		m^3/min	4.0/4.8/6.7/9.0
		Heating	Silentoperation/ Low/Medium/High		m^3/min	4.0/5.3/6.8/9.4
Sound power level	Cooling				dBA	53.0
	Heating				dBA	53.0
Sound pressure level	Cooling	Silent operation/Low/High			dBA	20.0/25.0/39.0
	Heating	Silent operation/Low/High			dBA	19.0/25.0/39.0
Control systems	Infrared remote control					ARC466A90
	Wired remote control					BRC073A1

Outdoor unit					RXTM	30A
Dimensions	Unit	HeightxWidthxDepth			mm	605x930x376
Weight	Unit				kg	42
Sound power level	Cooling				dBA	60
	Heating				dBA	60
Sound pressure level	Cooling	Nom.			dBA	48.0
	Heating	Nom.			dBA	49.0
Operation range	Cooling	Ambient	Min.~Max.		°CDB	-10~46
	Heating	Ambient	Min.~Max.		°CWB	-31~18
Refrigerant	Type					R-32
	GWP					675.0
	Charge				kg/TCO2Eq	0.97/0.66
Piping connections	Liquid	OD			mm	6.35
	Gas	OD			mm	9.50
	Piping length	OU - IU	Max.		m	20
	Additional refrigerant charge				kg/m	0.02 (for piping length exceeding 10m)
	Level difference	IU - OU	Max.		m	15.0
Power supply	Phase/Frequency/Voltage				Hz/V	1~/50/220-240
Current - 50Hz	Maximum fuse amps (MFA)				A	16

Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB, 24°CWB; equivalent piping length: 5m | Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m | See separate drawing for electrical data | Contains fluorinated greenhouse gases | See separate drawing for operation range

DAIKIN

nepura



The Nepura range consists of different Daikin indoor units:

Daikin Emura



Stylish



Perfera - wall mounted



Comfora



Perfera - floor standing



Enjoy ultimate comfort inside, whatever the weather outside

In extreme cold conditions, you just want reliable heating
When temperatures drop well below zero, you need a heating solution you can rely on to keep your living comfort high. Daikin won't leave you out in the cold.

Nepura is engineered to keep you warm in the coldest of winters, down to -30°C. With Nepura, you can count on year-round comfort, more energy efficiency and ultimate reliability and control. So, bring on the winter season.

Find out more on
daikin.eu

Options - Split

	Indoor units	R-32 FTXZ-N	R-32 C/FTXA-CW/B/S	R-32 FTXJ-AW/S/B9	R-32 C/FTXM-A	R-32 FTXP-N(9)	R-32 CTXF-F	R-32 FTXF-F	R-32 FTXC-E	R-32 and R-410A FDXM-F9	R-32 C/FVXM-B
Online control system	**Onecta app** WIFI adapter for smart phone	BRP069B42	Standardly included	Standardly included	Standardly included	Standardly included	Standardly included	Standardly included (60-71 class: BRP069B45 delivered with the unit)	Standardly included	BRP069C81	Standardly included
HomeHub	**EKRHH** PV self-consumption for Multi+ domestic hot water tank										
Individual control systems	**BRC1E53A/B/C (3)(4)(5) / BRC1H51(9)W/S/K / BRC1H81W/S** Premium wired remote control with full-text interface and back-light									•	
	BRC073A1 (9) Wired remote control (cord for wired remote control required)		•	•	•	•	•	•			•
	BRC2E52C Simplified remote control (with operation mode selector button)									•	
	BRC3E52C Remote control for hotel use									•	
	BRC4C65 Infrared remote control									• (10)	
	BRCW901A03 Extension cord for wired remote control (3m)		•	•	•	•	•	•			•
	BRCW901A08 Extension cord for wired remote control (8m)		•	•	•	•	•	•			•
Centralised control systems	**DCC601A51** Centralised controller with cloud connection by using the adapter KRP928*	•	•	•	•	•	•	•		•	•
	DCS302CA51** Central remote control	•	•	•	•	•	•	•		•	•
	DCS301BA51** Unified ON/OFF control	•	•	•	•	•	•	•		•	•
	DCS303A51 Residential central remote control									•	
	DST301BA51** Schedule timer	•	•	•		•	•	•		•	•
	DCM601A51** Intelligent Touch Manager	•	•	•	•	•	•	•		•	•
Building Management System & Standard protocol interface	**EKMBDXA7V1**** Modbus interface	•	•	•	•	•	•	•		•	•
	RTD-RA (9)** Modbus gateway	•	•	•	•	•	•	•		•	•
	KLIC-DD (9)** KNX Interface	•	•	•	•	•	•	•		•	•
Adapters	**BRP7A54 (7)(8)** Adapter PCB for interlock (key card, …)									•	
	KRP1B56 Adapter for wiring									•	
	KRP413AB1S** Adapter for wiring normal open contact/normal open pulse contact (time clock and other devices to be purchased locally)	•	•	•	•	•					•
	KRP4A54 Adapter for external ON/OFF and monitoring for electrical appendices									•	
	KRP2A53 Wiring adapter for electrical appendices									•	
	Installation box for adapter PCBs (when there is no space in the switchbox)									KRP1BA101	
	KRP980B1 Interface adapter for wired remote control						•	•			
	KRP928BB2S** Interface adapter for DIII-net	•	•	•	•	•	•	•			•
	DTA114A61 Multi tenant									•	
	KRCS01-4 External wired temperature sensor									•	
	KJB212AA/KJB311A Electrical box with earth terminal (2 blocks / 3 blocks)									•	
Filters	**KAF970A46** Titanium apatite deodorising filter without frame			•							
	KAF046A41 Honeycomb deodorising and air purifying filter with frame	•									
	KAF968A42 Honeycomb deodorising and air purifying filter with frame	•									
	KEK26-1A Noise filter (for electromagnetic use only)									•	
	BAE20A62/102 Auto-cleaning filter (small/large)									•	
Others	Anti-theft protection for remote control										
	Wire harness to connect to S21 connector		EKRS21	EKRS21	EKRS21	KRP067A41	KRP980B1 (20-50 class)	KRP980B1 (20-50 class)			EKRS21
	KDT25N32/50/63 Insulation kit for high humidity									•	
	DHH25A Drain hose heater										
Outdoor	**KKP937A4** Drain plug										
	ASYCPIR Reducer assy for FBA 71 combination										
	ASYCPIR-MD1 Reducer assy for FBA71/100/125 combination										
	BRP070B81 Energy demand control in case of power overload (German legislation §14a EnWG)										

(1) Can be used only in combination with KRP980A1
(2) WLAN installation kit include interface adapter PCB
(3) BRC1E53A: included languages: English, German, French, Italian, Spanish, Dutch, Greek, Russian, Turkish, Portuguese, Polish
(4) BRC1E53B: included languages: English, German, Czech, Hungarian, Romanian, Slovenian, Bulgarian, Slovak, Serbian, Albanian
(5) BRC1E53C: included languages
(6) Installation box for adapter PCB is necessary. Hour meter is field supply and should not be installed inside the equipment.

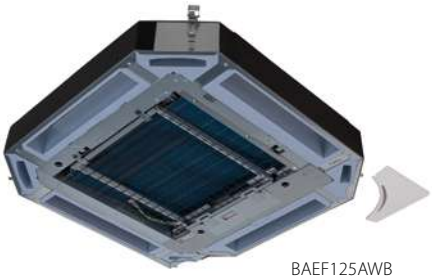
Siesta R-32					nepura R-32					Domestic hot water tanks		Outdoor unit			
ATXM-A	ATXP-N9	ATXF-G	ATXF-F	ATXC-E	FTXTJ-AW/B	FTXTA-CW/B	FTXTM-A	FTXTP-A	FVXTM-B	EHWET-BV3	CKHWS-BV3	RXM71A	2/3/4/5MXM68-80-90A9	4MWXM-A9	5MWXM-A9
Standardly included	Standardly included	Standardly included	Standardly included (60-71 class: BRP069B45 delivered with the unit)	Standardly included	Standardly included	Standardly included	Standardly included	Standardly included	Standardly included	Standardly included					
										•					
•	•	•	• (20-50 class)		•	•	•	•	•						
•	•	•	• (20-50 class)		•	•	•	•	•						
•	•	•	• (20-50 class)		•	•	•	•	•						
•	•	•	• (20-50 class)		•	•	•	•	•						
•	•	•	• (20-50 class)		•	•	•	•	•						
•	•	•	• (20-50 class)		•	•	•	•	•						
	•	•	• (20-50 class)		•	•	•	•	•						
•	•	•	• (20-50 class)		•	•	•	•	•						
•	•	•	• (20-50 class)		•	•	•	•	•						
•	•	•	• (20-50 class)		•	•	•	•	•						
•	•	•	• (20-50 class)		•	•	•	•	•						
•	•				•	•	•		•						
		•	•												
•	•	•	• (20-50 class)		•	•	•	•	•						
EKRS21			KRP980B1 (20-50 class)			EKRS21	EKRS21		EKRS21						
					•	•	•	•	•						
														•	
														•	
															•
												•	•	•	•

(7) Installation box for adapter PCB is necessary. They require mounting plate KRP4A96, maximally 2 optional PCBs can be mounted.
(8) Only in combination with simplified remote control BRC2E52C or BRC3E52C.
(9) Wiring adapter supplied by Daikin. Time clock and other devices: to be purchased locally.
(10) Standard there is no remote control delivered with this indoor unit. Wired or infrared control to be ordered separately.
(11) Standard delivered with the unit.
* This option features an S21. connector.
EKRP067A41 is only an S21. PCB.
** This indoor unit requires one conversion wire harness (EKRS21 or KRP980B1) to connect current option which use S21 connector. Wireless Lan as standard of unit is not able to operate with option. When user needs to use option, please turn off function of Wireless Lan.



Pure air because we care

Breathe healthy air with the round flow UV Streamer kit



BAEF125AWB

90% of our time is spent indoors. However indoor air is 2 to 5 times more polluted than outdoor air.

These internal pollution effects on people are manifested in the long run. Tackle them now!

- Our UV streamer kit offers you the solution:
- It purifies the air of pollutants such as viruses, bacteria, fine dust (PM1), odours, allergens, etc ensuring a healthy and hygenic indoor environment
- Unique catch & clean approach includes an ISO ePM1 60% (F7) filter, UV-C light and Streamer technology
- Thanks to large air flow rate of the Round flow cassette, clean air can be quickly delivered to every corner of your space
- Can be retrofitted into existing installations
- Can be used with BYCQ140E and BYCQ140EW decoration panels

99.9%

of viruses removed in 30 minutes, thanks to Daikin's unique

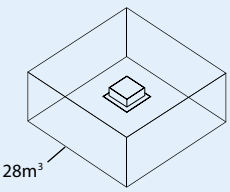
Catch & Clean approach

Tested at Intertek

Results based on tests performed in the laboratories of Intertek, in a 28m³ room. Daikin's Round flow cassette (FXFQ125B) removes more than 99.9% of enveloped viruses such as Corona viruses.

* Additional details regarding this function can be found in the unit technical manual.

Tested according to real life sized room





View full test report:

Sky Air the solution for the light commercial sector

Sky Air is Daikin's industry-leading light commercial range, which has been designed for optimum seasonal energy efficiency. Providing the ideal solution for all kinds of small commercial spaces, the Sky Air series offers a complete comfort solution that puts you in total control of your heating and cooling, ventilation and air curtains.

Sky Air

Light commercial applications

Why choose a Daikin Sky Air 400

Indoor units 404

Products overview indoor units 404

Benefits overview indoor units 406

Ceiling mounted cassettes 410

- UV Streamer kit UNIQUE 410
- FCAHG-H UNIQUE 413
- FCAG-B UNIQUE 414
- FFA-A9 UNIQUE 418

Concealed ceiling units 422

- Auto cleaning filter for concealed ceiling units UNIQUE 422
- Multi zoning kit 423
- FDXM-F9 424
- FBA-A(9) 426
- FDA125A 430
- FDA200-250A 431
- ADEA-A 432

Wall mounted units 433

- FAA-B 433
- FTXM-A 436

Ceiling suspended units 437

- FHA-A(9) NEW combinations 437
- FUA-A UNIQUE 441

Floor standing units 443

- FVA-A NEW combinations 443

Concealed floor standing units 446

- FNA-A9 446

Biddle air curtains 448

- Biddle air curtain for ERQ NEW 449

Outdoor units 451

Products overview outdoor units 452

Benefits overview outdoor units 453

R-32 BLUEVOLUTION range 458

- RZAG-B Sky Air Alpha-series 458
- RZAG-NV1/NY1 Sky Air Alpha-series 458
- RZASG-MV(1)/MY(1) Sky Air Advance-series 459
- RZA-D Sky Air Advance-series 460
- ARXM-A/AZAS-MV/MY NEW Sky Air Active-series 461

Options & Accessories 462

7 Reasons why sky air is unique in the market

1 Full Sky Air R-32 range delivering future-proofed, best-in-class climate control

Sky Air A-series BLUEVOLUTION

More details on page 452



System	Type	Model		Product name	35	50	60	71	100	125	140	200	250
					3.5 kW	5.0 kW	6.0 kW	6.8 kW	9.5 kW	12.1 kW	13.4 kW	21.5 kW	23.6 kW
Air cooled	Heat pump	**Sky Air Alpha-series** ▪ Industry leading technology for commercial applications ▪ Dedicated solution for infrastructure cooling ▪ Variable Refrigerant Temperature (RZAG71-100-125-140 series) ▪ Maximum piping length up to 85m (50m for RZAG35-50-60) ▪ Replacement technology ▪ Extended operation range down to -20°C in both heating and cooling ▪ Pair, twin, triple and double twin application (RZAG71-100-125-140 series)	R-32	RZAG-B RZAG-NV1/NY1									
		Sky Air Advance-series ▪ Technology and comfort combined for commercial applications ▪ Very compact and easy to install outdoor units ▪ Maximum piping length up to 50m (RZA-D up to 100m) ▪ Replacement technology ▪ Operation range down to -15°C both cooling and in heating (RZA-D down to -20°C) ▪ Pair, twin, triple and double twin application	R-32	RZASG-MV(1)/MY(1)									
				RZA-D									
		Sky Air Active-series ▪ Ideal solution for busy environments and small shops ▪ Very compact and easy to install outdoor units ▪ Maximum piping length up to 30m ▪ Replacement technology ▪ Easy-to-mount outdoor units: roof, terrace or wall ▪ Exclusively offered for pair applications	R-32	ARXM-A AZAS-MV/MY				NEW 	NEW 	NEW 	NEW 		

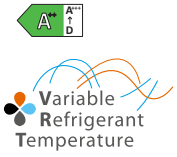
Full indoor line up

(over 45 different models)



2 High energy efficiency

- **Top seasonal efficiency**
  - SEER up to 8.02 and A++ label in cooling and heating
  - Variable Refrigerant Temperature that automatically adapts the refrigerant temperature to the load
- Round flow and concealed ceiling units with **auto cleaning filter**

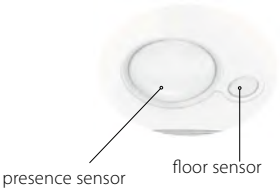




3 Best comfort

- **Variable Refrigerant Temperature** preventing cold draughts
- **Low sound** indoor and outdoor units
- **Presence and floor sensors** direct the air flow away from persons, while ensuring an even temperature distribution
- Operation down to -**20°C in heating and cooling operation**
- **UV Streamer kit**, purifies the air of pollutants such as viruses, bacteria, fine dust (PM1), odours, allergens, etc
- Fresh air intake integrated in indoor unit





4 Top reliability

- For **infrastructure cooling**
  - unique boosted capacity indoor unit systems
  - duty rotation control
- **Refrigerant cooled PCB**
- New refrigerant passes keeping heat exchanger and drain holes completely open at all times
- **Most extensive testing** before new units leave the factory
- **Widest support network** and after sales service
- All spare parts available in Europe





bottom plate refrigerant pass

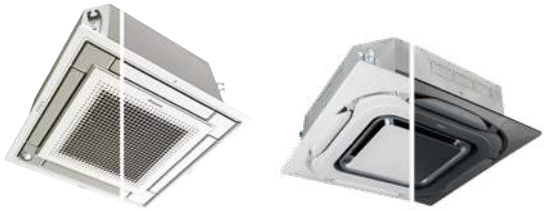
5 Market leading controls

- **Remote connectivity**
  - **Intuitive app** control
  - **Daikin Cloud Plus** offering online control, energy monitoring and comparison of multiple sites
- **User-friendly wired remote controller with premium design**
  - Intuitive touch button control
  - 3 color versions
  - Advanced settings can be easily done via your smartphone
- **Dedicated control solutions**
  - for retail applications
  - for infrastructure cooling



6 Superior aesthetics

- **Fully flat cassette** design unit that integrates fully flat into the ceiling
- **Auto cleaning** units ensure dirt-free ceilings with high efficiency filters for regular and dust prone areas
- Widest ever range cassette panels
  - Available in **white and black**
  - Sleek **designer panel** range



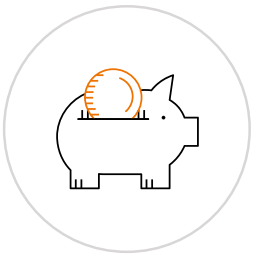
7 Unique installation benefits

- **4-way blow ceiling suspended cassette** (FUA) for rooms without false ceiling.
- Plug & play Daikin air handling unit with ERQ condensing units
- Reliably replace Daikin and non-Daikin systems without the need for pipe cleaning thanks to the new hepta filtration
- Dedicated low sound enclosure, reducing sound power up to -10 dB(A)
- Use up to 4 indoor units linked to one outdoor unit for long or irregularly shaped rooms

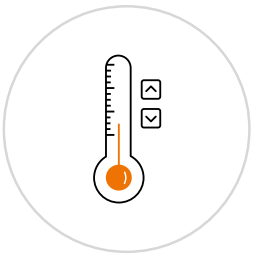


Year-round comfort with air-to-air heat pumps

Get year-round comfort with advanced, efficient, heating and cooling technology.



Energy efficient for sustainability and savings



Effortles temperature control, maximum comfor



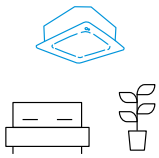
Optimal indoor air quality



Sleek, elegant design

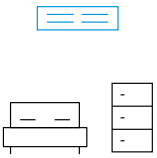
Designed to suit any space

Having the widest range on the market, Sky Air units will always fit your needs.



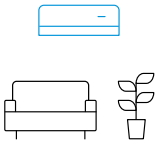
Cassette units

- Centrally located for balanced comfort
- Mounted against or in the ceiling, leaving maximum space at the walls



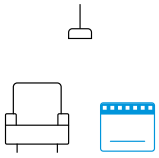
Conceiled ceiling unit

- Discretely conceald in the ceiling
- Only the grilles ar visible



Wall mounted

- For installation high on the wall
- Ideal for above indoor installations



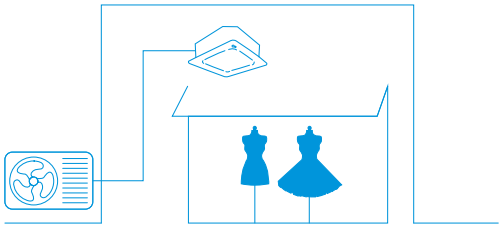
Floor standing

- For installation on the ground
- This unit can be fit beneath a window

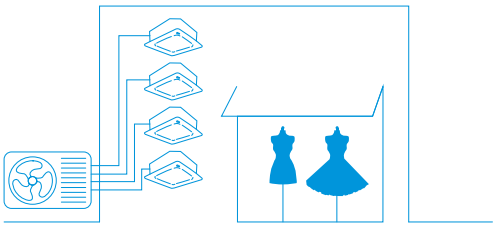
Tackle any size of room

Connect up to 4 indoor units on 1 outdoor unit to tackle also larger or irregular shaped rooms. All units are linked to a single control, ensuring an even comfort experience.

Pair solution



Twin, triple, double twin solution



A total building solution

Our Sky Air solution does not only control temperature. Also fresh air ventilation and over-door air curtains keep your indoor space at the highest comfort. All controllable from any place you are and giving in-depth information on energy consumption to optimize energy use.



Heating and cooling for year round comfort



Fresh air ventilation for high quality environments



Controls for maximum operating efficiency



Air curtains for optimum air separation

Typical Sky Air applications

Shops

Reducing retail costs

"Together with Daikin's technical team we have optimised the design of our HVAC system, reducing investment levels and operational costs. Daikin has offered us access to the most up to date technology."
Retail shop representative

youtube.com/
DaikinEurope

Shops



Offices

Efficiency in the workplace

"Leading edge design in harmony with the construction and interior design."
Architect

youtube.com/
DaikinEurope

Office



Hotel

Hospitality with economy

"With Daikin we could perfectly combine the authenticity of the hotel with the latest technology and comfort."
B&B owner



Residential

There is no place like home

"A cost effective, low energy consumption heat pump system for home owners, offering maximum comfort."



Infrastructure cooling

Maximum reliability for IT rooms, laboratories and telecom shelters

"A reliable system and guaranteed continuous operation are what count for me."
General office manager



Product overview

SkyAir

Type	Model	Product name		PG	
Ceiling mounted cassette	UNIQUE High COP, Round flow cassette (UV Streamer kit)	FCAHG-H		413	**360° air discharge for the highest efficiency and comfort** ▪ High COP cassette ensures top performance for commercial applications ▪ Auto cleaning function ensures high efficiency ▪ Intelligent sensors save energy and maximize comfort ▪ Flexibility to suit every room layout ▪ Widest choice ever in decoration panel designs and colors ROUND FLOW
	UNIQUE Round flow cassette (UV Streamer kit)	FCAG-B		414	**360° air discharge for the highest efficiency and comfort** ▪ Auto cleaning function ensures high efficiency ▪ Intelligent sensors save energy and maximize comfort ▪ Flexibility to suit every room layout ▪ Lowest installation height in the market ▪ Widest choice ever in decoration panel designs and colors ROUND FLOW
	UNIQUE Fully flat cassette	FFA-A9		418	**Unique design that integrates fully flat into the ceiling** ▪ Perfect integration in standard architectural ceiling tiles ▪ Blend of iconic design and engineering excellence ▪ Intelligent sensors save energy and maximize comfort ▪ Small capacity unit developed for small or well-insulated rooms ▪ Flexibility to suit every room layout
Concealed ceiling	Slim concealed ceiling unit (Auto cleaning option, Multi zoning option)	FDXM-F9		424	**Slim design for flexible installation** ▪ Compact dimensions enable installation in narrow ceiling voids ▪ Medium external static pressure up to 40Pa ▪ Small capacity unit developed for small of well insulated rooms ▪ Auto cleaning function ensures high efficiency and reliability
	Concealed ceiling unit with medium ESP (Multi zoning option)	FBA-A(9)		426	**Slimmest yet most powerfull medium static pressure unit on the market!** ▪ Slimmest unit in class, only 245mm ▪ Low operating sound level ▪ Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths ▪ Automatic air flow adjustment function measures the air volume and static pressure and adjusts it towards the nominal air flow, guaranteeing comfort
	Concealed ceiling unit with high ESP	FDA-A	 FDA125A	430	**ESP up to 200Pa, ideal for large sized buildings** ▪ Discretely concealed in the ceiling: only the grilles are visible ▪ Possibility to change ESP via wired remote control allows optimisation of the supply air volume ▪ Flexible installation as the air suction direction can be altered from rear to bottom suction
			 FDA200-250A	431	**ESP up to 250Pa, Ideal for extra large sized spaces** ▪ Discretely concealed in the ceiling: only the grilles are visible ▪ Possibility to change ESP via wired remote control allows optimisation of the supply air volume
	Concealed ceiling unit (Multi zoning option)	ADEA-A		432	**Ideal for residential applications with false ceilings** ▪ Energy label up to A ▪ Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths ▪ Slimmest unit in class, only 245mm ▪ Exclusively offered for pair applications
Wall mounted	Wall mounted unit	FAA-B		433	**For rooms with no false ceilings nor free floor space** ▪ Flat, stylish front panel ▪ The air is comfortably spread up- and downwards thanks to 5 different discharge angles ▪ Easy maintenance as this can be done from the front of the unit ▪ Flexible to install: pipe connection can be bottom, left or right
	NEW Perfera wall mounted unit	FTXM-A		436	**For rooms with no false ceilings nor free floor space** ▪ Practically inaudible ▪ Perfect comfort thanks to comfort+ function and 2 area motion sensor ▪ Flash streamer technology ▪ 3D air flow
Ceiling suspended	Ceiling suspended unit	FHA-A(9)		437	**For wide rooms with no false ceilings nor free floor space** ▪ Ideal for comfortable air flow in wide rooms thanks to Coanda effect ▪ Even rooms with ceilings up to 3.8m can be heated up or cooled down very easily! ▪ Can be mounted in corners or narrow spaces without any problem
	UNIQUE 4-way blow ceiling suspended unit	FUA-A		441	**Unique Daikin unit for high rooms with no false ceilings nor free floor space** ▪ Rooms with ceilings up to 3.5m can be heated up or cooled down very easily! ▪ Can easily be installed in both new and refurbishment projects Intelligent sensors save energy and maximize comfort ▪ Flexibility to suit every room layout
Floor standing	Floor standing unit	FVA-A		443	**For spaces with high ceilings** ▪ Ideal solution for commercial spaces with no or narrow false ceilings ▪ Even rooms with very high ceilings can be heated up or cooled down very easily! ▪ Guarantees a stable temperature ▪ Vertical and horizontal outblow
	Concealed floor standing unit	FNA-A9		446	**Designed to be concealed in walls, only grilles remain visible** ▪ Slimmest unit on the market with a depth of only 200mm! ▪ Both window sill or ducted installation are possible thanks to sufficient ESP ▪ Whisper quiet operation allows installation in any location

Full R-32 BLUEVOLUTION line up

FULL single fan range

Capacity class										Outdoor unit combination					
										R-32					
										Sky Air Alpha-series		Sky Air Advance-series		Sky Air Active-series	
25	35	50	60	71	100	125	140	200	250	RZAG-B	RZAG-NV1/NY1	RZASG-MV(1)/MY(1)	RZA-D	NEW AZAS-MV/MY	NEW ARXM-A
				•	•	•	•				✓				
	•	•	•	•	•	•	•			✓	✓	✓	✓	✓	✓
•	•	•	•							✓	✓	✓	✓		
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	•	•	•							✓					
	•	•	•	•	•	•	•			✓	✓	✓	✓	NEW ✓	NEW ✓
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				•	•	•	•				✓	✓	✓	NEW ✓	
•	•	•	•							✓	✓	✓	✓		

Benefit overview SkyAir

We care		Home leave operation	Maintains the indoor temperature at your specified comfort level during absence, thus saving energy.
		Fan only	The unit can be used as fan, blowing air without heating or cooling.
		Auto cleaning filter	The filter automatically cleans itself. Simplicity of upkeep means optimum energy efficiency and maximum comfort without the need for expensive or time-consuming maintenance.
		Presence & floor sensor	The presence sensor directs the air away from any person detected in the room, when the air flow control is on. The floor sensor detects the average floor temperature and ensures an even temperature distribution between ceiling and floor.
Comfort		Draught prevention	When starting to warm up or when the thermostat is off, the air discharge direction is set horizontally and the fan to low speed, to prevent draught. After warming up, air discharge and fan speed are set as desired.
		Whisper quiet	Daikin indoor units are whisper quiet. Also the outdoor units are guaranteed not to disturb the quiet of the neightbourhood.
		Auto cooling-heating changeover	Automatically selects cooling or heating mode to achieve the set temperature.
Air treatment		UV Streamer kit	Purifies the air of pollutants such as viruses, bacteria, fine dust, odours, allergens, etc ensuring a healthy and hygienic indoor environment
		Air filter	Removes airborne dust particles to ensure a steady supply of clean air.
Humidity control		Dry programme	Allows humidity levels to be reduced without variations in room temperature.
Air flow		Ceiling soiling prevention	Prevents air from blowing out too long in horizontal position, to prevent ceiling stains.
		Vertical auto swing	Possibility to select automatic vertical moving of the air discharge louvre, for uniform air flow and temperature distribution.
		Fan speed steps	Allows to select up to the given number of fan speed.
		Individual flap control	Individual flap control via the wired remote controller enables you to easily fix the position of each flap individually, to suit any new room configuration. Optional closure kits are available as well.
Remote control & timer		Onecta app	Control your indoor climate from any location via smartphone or tablet.
		Weekly timer	Can be set to start heating or cooling anytime on a daily or weekly basis.
		Infrared remote control	Starts, stops and regulates the air conditioner from a distance.
		Wired remote control	Starts, stops and regulates the air conditioner.
		Centralised control	Starts, stops and regulates several air conditioners from one central point.
		Multi zoning	Allows up to 6 individual climate zones with one indoor unit
Other functions		Infrastructure cooling	Remove in a reliable, efficient and flexible way the heat constantly generated by the IT and server equipment to ensure maximum uptime while offering the best return on investment.
		Auto-restart	The unit restarts automatically at the original settings after power failure.
		Self-diagnosis	Simplifies maintenance by indicating system faults or operating anomalies.
		Drain pump kit	Facilitates condensation draining from the indoor unit.
		Twin/triple/double twin application	2, 3 or 4 indoor units can be connected to only a single outdoor unit even if they have different capacities. All indoor units operate within the same heating or cooling mode from one remote control.
		Multi model application	Up to 5 indoor units can be connected to a single outdoor unit, even if they have different capacities. All indoor units can individually be operated within the same heating or cooling mode.
		VRV for residential application	Up to 9 indoor units (even different capacities and up to 71 class) can be connected to a single outdoor unit. All indoor units can individually be operated within the same mode.

Ceiling mounted cassette units			Concealed ceiling units					Ceiling suspended units	4-Way blow ceiling suspended unit	Wall mounted unit	Perfera wall mounted unit	Floor standing units	
FCAHG-H	FCAG-B	FFA-A9	FDXM-F9	FBA-A(9)	FDA125A	FDA200-250A	ADEA-A	FHA-A(9)	FUA-A	FAA-B	NEW FTXM-A	FVA-A	FNA-A9
													
•	•	•	•	•	•	•	•	•	•	•		•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•
○	○		○										
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•	•	•	•	•	•	•	•	•	•	•	•	•	•
○	○												
• (Optional high efficiency filter ePM10 60%)	•	•	•	•	•	•	•	•	•	•	• (Flash streamer; titanium apatite deodorising filter)	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•											
•	•	•						•	•	•	• (incl. 3D air flow)	•	
5 + auto	5 + auto	3 + auto	3	3 + auto	9 + auto	3 + auto	3 + auto	5 + auto	3 + auto	3 + auto	5 + auto	3 + auto	3 + auto
•	•	•							•				
○	○	○	○	○	○	○	○	○	○	○	•	○	○
○	○	○	○	○	○	○	○	○	○	○	•	○	○
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○	○	○	○	○	○	○	○	○	○	○	○	○	○
			○	○			○						
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	•	•	•	•				•			○		•
	•	•	•	•				•			•		•

• standard, ○ optional



Fully flat cassette



Concealed ceiling unit



Concealed floor standing unit



4-Way blow ceiling suspended cassette



Wall mounted unit



Ceiling suspended unit

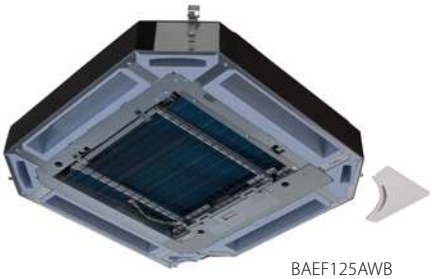


Round flow cassette, with UV streamer kit



Pure air because we care

Breathe healthy air with the round flow UV Streamer kit



BAEF125AWB

90% of our time is spent indoors. However indoor air is 2 to 5 times more polluted than outdoor air.

These internal pollution effects on people are manifested in the long run. Tackle them now!

- Our UV streamer kit offers you the solution:
- It purifies the air of pollutants such as viruses, bacteria, fine dust (PM1), odours, allergens, etc ensuring a healthy and hygenic indoor environment
- Unique catch & clean approach includes an ISO ePM1 60% (F7) filter, UV-C light and Streamer technology
- Thanks to large air flow rate of the Round flow cassette, clean air can be quickly delivered to every corner of your space
- Can be retrofitted into existing installations
- Can be used with BYCQ140E and BYCQ140EW decoration panels

99.9%

of viruses removed in 30 minutes, thanks to Daikin's unique

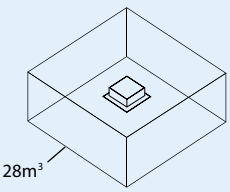
Catch & Clean approach

Tested at Intertek

Results based on tests performed in the laboratories of Intertek, in a 28m³ room. Daikin's Round flow cassette (FXFQ125B) removes more than 99.9% of enveloped viruses such as Corona viruses.

* Additional details regarding this function can be found in the unit technical manual.

Tested according to real life sized room



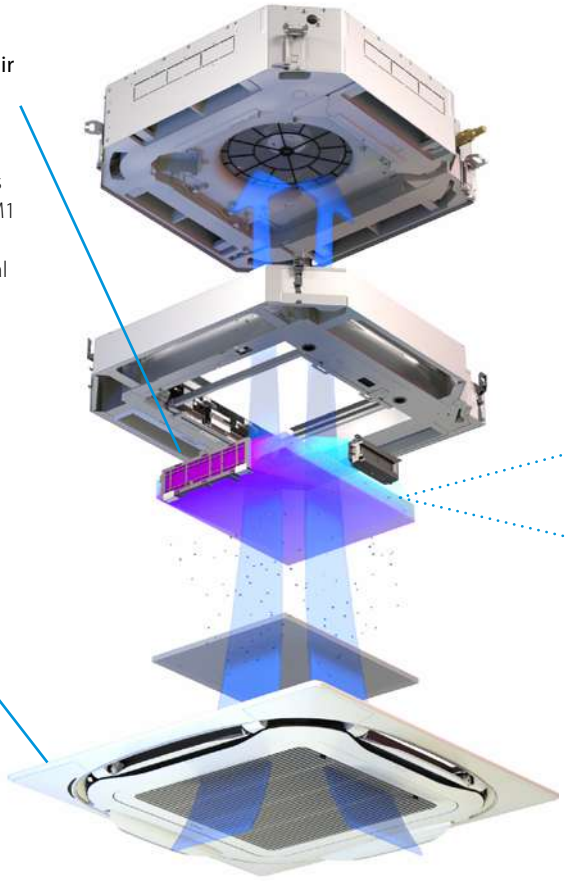


View full test report:

Daikin's unique Catch & Clean approach includes an ePM1 50% filter, UV-C light and Streamer technology

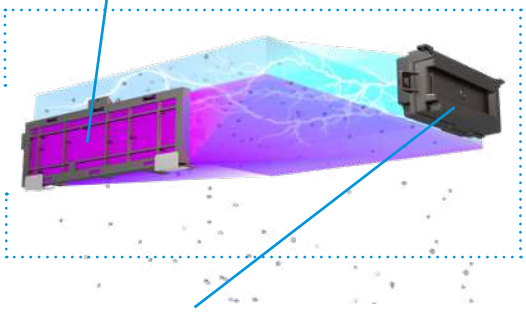
1 **Effective capturing of air borne pollutants**
- Highly efficient capturing particulate matter and pollutants thanks to the ISO ePM1 60% (F7) filter
- Anti bacterial and viral coating

Indicator light
Indicates operation, malfunction or replacement status



2 **Effective cleaning and decomposition of pollutants**
Our unique combined UV-C light and Streamer technology ensures both surface and in-depth sanitising of the filter to ensure hygienic air.

UVC LED light with high output wavelength of 265nm which is the most effective for surface cleaning and inactivation of bacteria and viruses.



Streamer technology for deep sanitising of the filter and powerful decomposition of viruses and bacteria trapped inside the filter.

Specifications

		BAEF125AWB
Power Supply		1P, 220-240V, 50/60 Hz
Dimensions HxWxD	mm	100x840x840
Weight	kg	12
Compatible decoration panels		BYCQ140E/BYCQ140EW * (UV-streamer kit cannot be used with other filters, chambers, fresh air intake kits or air discharge outlet sealing member kit)
Filter efficiency		ePM1 60% @ISO16890 (F7)
Replacement interval		Pleated filter (BAF55A125): every year Flash streamer device: every 7 years UV-C LED: every 7 years

* For compatibility with older panels, consult your local sales representative

download the leaflet here



Complete indoor comfort, including pure air

The round flow cassette



- Maximum comfort thanks to **360° air discharge and intelligent sensors**
- **Widest ever choice in panels** to match any interior


Black auto cleaning panel


Black designer panel


Full white standard panel


White designer panel

- **Auto cleaning panel** keeps the filter free of dust for maximum efficiency



- **UV streamer kit**
  - Purifies the air of pollutants such as viruses, bacteria, fine dust PM1, odours, allergens, etc ensuring a healthy and hygienic indoor environment
  - Unique catch & clean approach includes an ISO ePM1 60% (F7) filter, UV-C light and Streamer technology
  - Can be **retrofitted** into existing installations

UV STREAMER

99.9%

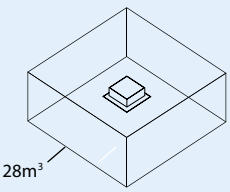
of viruses removed in 30 minutes, thanks to Daikin's unique

Catch & Clean approach

Tested at Intertek
Results based on tests performed in the laboratories of Intertek, in a 28m³ room. Daikin's Round flow cassette (FXFQ125B) removes more than 99.9% of enveloped viruses such as Corona viruses.

* Additional details regarding this function can be found in the unit technical manual.

Tested according to real life sized room





View full test report:

High COP, round flow cassette

ROUND FLOW · UV · STREAMER · SkyAir Alpha-series BLUEVOLUTION

360° air discharge for optimum efficiency and comfort

- Combination with Sky Air Alpha-series ensures best in class quality, highest efficiency and performance
- High COP cassette ensures top performance and great energy savings
- Optional automatic filter cleaning panel results in higher efficiency & comfort and lower maintenance costs.
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- Widest choice ever in decoration panels: designer panels in white (RAL9010) and black (RAL9005) and standard panels in white (RAL9010) with grey louvers or full white
- Bigger flaps and unique swing pattern improve equal air distribution
- 5 different fan speeds available for maximum comfort
- UV streamer kit, purifies the air of pollutants such as viruses, bacteria, fine dust, odours, allergens, etc ensuring a healthy and hygenic indoor environment
- Optional fresh air intake
- Branch duct discharge allows to optimize air distribution in irregular shaped rooms or to supply air to small adjacent rooms
- Standard drain pump with 675mm lift increases flexibility and installation speed




White panel · White auto cleaning panel · Black panel · Black design panel

FCAHG-H · RZAG-NV1 · RZAG-NY1

Efficiency data				FCAHG + RZAG	71H + 71NV1	100H + 100NV1	125H + 125NV1	140H + 140NV1	71H + 71NY1	100H + 100NY1	125H + 125NY1	140H + 140NY1
Cooling capacity	Nom.			kW	6.80	9.50	12.1	13.4	6.80	9.50	12.1	13.4
Heating capacity	Nom.			kW	7.50	10.8	13.5	15.5	7.50	10.8	13.5	15.5
Space cooling	Energy efficiency class				A++		-		A++		-	
	Capacity		Pdesign	kW	6.80	9.50	12.1	13.4	6.80	9.50	12.1	13.4
	SEER				7.90	7.70	8.02	7.93	7.90	7.70	8.02	7.93
	ηs,c			%	-		318	314	-		318	314
	Annual energy consumption			kWh/a	301	432	905	1,014	301	432	905	1,014
Space heating (Average climate)	Energy efficiency class				A+		-		A+	A+	-	
	Capacity		Pdesign	kW	4.70		9.52		4.70		9.52	
	SCOP/A				4.61	4.75	4.53	4.44	4.56	4.75	4.53	4.44
	ηs,h			%	-		178	175	-		178	175
	Annual energy consumption			kWh/a	1,427	2,805	2,943	3,002	1,443	2,805	2,943	3,002

Indoor unit				FCAHG	71H	100H	125H	140H	71H	100H	125H	140H
Dimensions	Unit	HeightxWidthxDepth		mm	288x840x840							
Weight	Unit			kg	25.0							
Air filter	Type				Resin net							
Decoration panel	Model				Standard panels: BYCQ140E - white with grey louvers / BYCQ140EW - full white / BYCQ140EB - black Auto cleaning panels: BYCQ140EGF - white / BYCQ140EGFB - black Designer panels: BYCQ140EP - white / BYCQ140EPB - black							
	Dimensions	HeightxWidthxDepth		mm	Standard panels: 65x950x950 / Auto cleaning panels: 148x950x950 / Designer panels: 106x950x950							
	Weight			kg	Standard panels: 5.5 / Auto cleaning panels: 10.3 / Designer panels: 6.5							
Fan	Air flow rate	Cooling	Low/Medium/High	m^3/min	13.7/18.8/23.6	19.1/25.7/32.2	21.2/27.3/34.4		13.7/18.8/23.6	19.1/25.7/32.2	21.2/27.3/34.4	
		Heating	Low/Medium/High	m^3/min	13.7/18.8/23.6	18.3/24.6/30.8	19.7/25.5/32.1		13.7/18.8/23.6	18.3/24.6/30.8	19.7/25.5/32.1	
Sound power level	Cooling			dBA	53.0	61.0			53.0	61.0		
	Heating			dBA	53.0	61.0			53.0	61.0		
Sound pressure level	Cooling	Low/High		dBA	29.0/36.0	33.0/44.0	35.0/45.0	37.0/45.0	29.0/36.0	33.0/44.0	35.0/45.0	37.0/45.0
	Heating	Low/High		dBA	29.0/36.0	33.0/44.0	35.0/45.0	37.0/45.0	29.0/36.0	33.0/44.0	35.0/45.0	37.0/45.0
Control systems	Infrared remote control				BRC7FA532F / BRC7FB532F / BRC7FA532FB / BRC7FB532FB							
	Wired remote control				BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52							
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220							
Piping connections	Drain				VP25 (I.D. 25/O.D. 32)							

Outdoor unit				RZAG	71NV1	100NV1	125NV1	140NV1	71NY1	100NY1	125NY1	140NY1
Dimensions	Unit	HeightxWidthxDepth		mm	870x1,100x460							
Weight	Unit			kg	81	85	95		81	85	94	
Sound power level	Cooling			dBA	64	66	69	70	64	66	69	70
	Heating			dBA	-		68	71	-		68	71
Sound pressure level	Cooling	Nom.		dBA	46	47	49	50	46	47	49	50
	Heating	Nom.		dBA	48	50	52		48	50	52	
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-20~52							
	Heating	Ambient	Min.~Max.	°CWB	-20~18							
Refrigerant	Type/GWP				R-32/675							
	Charge			kg/TCO2Eq	3.20/2.16		3.70/2.50		3.20/2.16		3.70/2.50	
Piping connections	Liquid/Gas OD			mm	9.52/15.9							
	Piping length	OU - IU	Max.	m	55		85		55		85	
		System	Equivalent	m	75		100		75		100	
			Chargeless	m	40							
	Level difference	IU - OU	Max.	m	30							
	Additional refrigerant charge			kg/m	See installation manual							
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240				3~/50/380-415			
Current - 50Hz	Maximum fuse amps (MFA)			A	20	32			16			

Contains fluorinated greenhouse gases

Round flow cassette

360° air discharge for optimum efficiency and comfort

- Combination with Sky Air Alpha-series ensures best in class quality, highest efficiency and performance
- Optional automatic filter cleaning panel results in higher efficiency & comfort and lower maintenance costs
- Two optional intelligent sensors improve energy efficiency and comfort
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- Lowest installation height in the market: 214mm for class 20-63
- Widest choice ever in decoration panels: designer panels in white (RAL9010) and black (RAL9005) and standard panels in white (RAL9010) with grey louvers or full white
- Bigger flaps and unique swing pattern improve equal air distribution
- UV streamer kit, purifies the air of pollutants such as viruses, bacteria, fine dust, odours, allergens, etc ensuring a healthy and hygenic indoor environment
- Optional fresh air intake
- Branch duct discharge allows to optimize air distribution in irregular shaped rooms or to supply air to small adjacent rooms
- Standard drain pump with 675mm lift increases flexibility and installation speed


FCAG-B


RZAG-NV1_NY1


BRC1H52W BRP069C82

Floor and presence sensor

Home leave operation

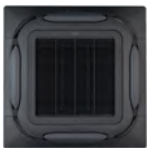
Auto cleaning filter

Draught prevention

Individual flap control


White panel


White auto cleaning panel


Black panel


Black design panel

FCAG-B RZAG-B RZAG-NV1 RZAG-NY1

Efficiency data				FCAG + RZAG	35B + 35B	50B + 50B	60B + 60B	71B + 71NV1	100B + 100NV1	125B + 125NV1	140B + 140NV1	71B + 71NY1	100B + 100NY1	125B + 125NY1	140B + 140NY1
Cooling capacity	Nom.			kW	1.6/3.5/4.5	1.7/5.0/6.0	1.7/6.0/6.5	-/6.80/-	-/9.50/-	-/12.1/-	-/13.4/-	-/6.80/-	-/9.50/-	-/12.1/-	-/13.4/-
Heating capacity	Nom./Max.			kW	1.40/4.00/5.00	1.50/5.80/6.00	1.60/7.00/7.50	-/7.50/-	-/10.8/-	-/13.5/-	-/15.5/-	-/7.50/-	-/10.8/-	-/13.5/-	-/15.5/-
Space cooling	Energy efficiency class						A			-		A		-	
	Capacity		Pdesign	kW	3.50	5.00	6.00	6.80	9.50	12.1	13.4	6.80	9.50	12.1	13.4
	SEER				7.30	6.80	6.60	6.83	7.14	7.15	6.80	6.83	7.14	7.15	6.80
	ηs,c			%			-			283	269	-		283	269
	Annual energy consumption			kWh/a	168	257	318	348	466	1,016	1,182	348	466	1,016	1,182
Space heating (Average climate)	Energy efficiency class						A			-		A		-	
	Capacity		Pdesign	kW	3.30	4.30	4.60	4.70	7.80	9.52		4.70	7.80	9.52	
	SCOP/A				4.30		4.25	4.22	4.53	4.34		4.22	4.53	4.34	
	ηs,h			%			-			171		-		171	
	Annual energy consumption			kWh/a	1,074	1,398	1,515	1,560	2,413	3,071		1,560	2,413	3,071	

Indoor unit				FCAG	35B	50B	60B	71B	100B	125B	140B	71B	100B	125B	140B
Dimensions	Unit	HeightxWidthxDepth		mm	204x840x840				246x840x840			204x840x840	246x840x840		
Weight	Unit			kg	18	19		21	23			21	23		
Air filter	Type				Resin net										
Decoration panel	Model				Standard panels: BYCQ140E - white with grey louvers / BYCQ140EW - full white / BYCQ140EB - black Auto cleaning panels: BYCQ140EGF - white / BYCQ140EGFB - black Designer panels: BYCQ140EP - white / BYCQ140EPB - black										
	Dimensions	HeightxWidthxDepth		mm	Standard panels: 65x950x950 / Auto cleaning panels: 148x950x950 / Designer panels: 106x950x950										
	Weight			kg	Standard panels: 5.5 / Auto cleaning panels: 10.3 / Designer panels: 6.5										
Fan	Air flow rate	Cooling	Low/Medium/High	m^3/min	8.8/10.6/12.9	9.4/11.8/14.6	9.6/12.2/14.9	10.8/13.0/15.1	13.0/17.8/22.7	13.1/20.4/27.2		10.8/13.0/15.1	13.0/17.8/22.7	13.1/20.4/27.2	
		Heating	Low/Medium/High	m^3/min	9.4/11.6/14.1	9.4/11.8/14.6	9.6/12.2/14.9	10.8/12.9/15.1	13.2/18.1/23.0	13.0/20.2/27.0		10.8/12.9/15.1	13.2/18.1/23.0	13.0/20.2/27.0	
Sound power level	Cooling			dBA	49.0		51.0		54.0	58.0		51.0	54.0	58.0	
	Heating			dBA	49.0		51.0		54.0	58.0		51.0	54.0	58.0	
Sound pressure level	Cooling	Low/High		dBA	27.0/31.0		28.0/33.0	28.0/35.0	29.0/37.0	29.0/41.0		28.0/35.0	29.0/37.0	29.0/41.0	
	Heating	Low/High		dBA	27.0/31.0		28.0/33.0		29.0/37.0	29.0/41.0		28.0/33.0	29.0/37.0	29.0/41.0	
Control systems	Infrared remote control				BRC7FA532F / BRC7FB532F / BRC7FA532FB / BRC7FB532FB										
	Wired remote control				BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52										
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220										
Piping connections	Drain				VP25 (O.D. 32 / I.D. 25)										

Outdoor unit				RZAG	35B	50B	60B	71NV1	100NV1	125NV1	140NV1	71NY1	100NY1	125NY1	140NY1
Dimensions	Unit	HeightxWidthxDepth		mm	734x870x373			870x1,100x460							
Weight	Unit			kg	52			81	85	95		81	85	94	
Sound power level	Cooling			dBA	62.0	63.0	64.0	64	66	69	70	64	66	69	70
	Heating			dBA	62.0	63.0	64.0	-		68	71	-		68	71
Sound pressure level	Cooling	Nom.		dBA	48.0	49.0	50.0	46	47	49	50	46	47	49	50
	Heating	Nom.		dBA	48.0	49.0	50.0	48	50	52		48	50	52	
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-20~52			-20~52							
	Heating	Ambient	Min.~Max.	°CWB	-20~24			-20~18							
Refrigerant	Type/GWP				R-32/675.0			R-32/675							
	Charge			kg/TCO2Eq	1.55/1.05			3.20/2.16		3.70/2.50		3.20/2.16		3.70/2.50	
Piping connections	Liquid/Gas	OD		mm	6.35/9.52	6.35/12.7		9.52/15.9							
	Piping length	OU - IU	Max.	m	50			55	85			55	85		
		System	Equivalent	m	-			75	100			75	100		
			Chargeless	m	30			40							
	Level difference	IU - OU	Max.	m	30.0			30							
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 30m)			See installation manual							
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240							3~/50/380-415			
Current - 50Hz	Maximum fuse amps (MFA)			A	-			20	32			16			

Contains fluorinated greenhouse gases

Round flow cassette

ROUND FLOW UV STREAMER

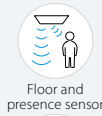
SkyAir Advance-series BLUEVOLUTION

360° air discharge for optimum efficiency and comfort

- Combination with Sky Air Advance-series ensures good value for money for all types of commercial applications
- Optional automatic filter cleaning panel results in higher efficiency & comfort and lower maintenance costs.
- Two optional intelligent sensors improve energy efficiency and comfort
- Widest choice ever in decoration panels: designer panels in white (RAL9010) and black (RAL9005) and standard panels in white (RAL9010) with grey louvers or full white
- Bigger flaps and unique swing pattern improve equal air distribution
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- UV streamer kit, purifies the air of pollutants such as viruses, bacteria, fine dust, odours, allergens, etc ensuring a healthy and hygenic indoor environment
- Optional fresh air intake
- Branch duct discharge allows to optimize air distribution in irregular shaped rooms or to supply air to small adjacent rooms
- Standard drain pump with 675mm lift increases flexibility and installation speed



FCAG-B



Floor and presence sensor



Home leave operation



Auto cleaning filter



RZASG100-140MV(1)/MY(1)



BRC1H52W, BRP069C82



Draught prevention



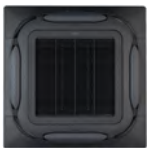
Individual flap control



White panel



White auto cleaning panel



Black panel



Black design panel

FCAG-B | RZASG-MV1 | RZASG-MY1 | RZASG-MV | RZASG-MY

Efficiency data				FCAG + RZASG	71B + 71MV1	100B + 100MV(1)	125B + 125MV(1)	140B + 140MV(1)	100B + 100MY(1)	125B + 125MY(1)	140B + 140MY(1)
Cooling capacity	Nom.			kW	6.80	9.50	12.1	13.4	9.50	12.1	13.4
Heating capacity	Nom.			kW	7.50	10.8	13.5	15.5	10.8	13.5	15.5
Space cooling	Energy efficiency class				A		-		A	-	
	Capacity		Pdesign	kW	6.80	9.50	12.1	13.4	9.50	12.1	13.4
	SEER				6.47	6.55	5.76	6.53	6.55	5.76	6.53
	ηs,c			%	-		227	258	-	227	258
	Annual energy consumption			kWh/a	368	507	1,261	1,231	507	1,261	1,231
Space heating (Average climate)	Energy efficiency class				A		-		A	-	
	Capacity		Pdesign	kW	4.50	6.00		7.80	6.00		7.80
	SCOP/A				4.10	4.17	4.05	4.31	4.17	4.05	4.31
	ηs,h			%	-		159	169	-	159	169
	Annual energy consumption			kWh/a	1,537	2,016	2,074	2,534	2,016	2,074	2,534

Indoor unit				FCAG	71B	100B	125B	140B	100B	125B	140B
Dimensions	Unit	HeightxWidthxDepth		mm	204x840x840	246x840x840					
Weight	Unit			kg	21	23					
Air filter	Type				Resin net						
Decoration panel	Model				Standard panels: BYCQ140E - white with grey louvers / BYCQ140EW - full white / BYCQ140EB - black Auto cleaning panels: BYCQ140EGF - white / BYCQ140EGFB - black Designer panels: BYCQ140EP - white / BYCQ140EPB - black						
	Dimensions	HeightxWidthxDepth		mm	Standard panels: 65x950x950 / Auto cleaning panels: 148x950x950 / Designer panels: 106x950x950						
	Weight			kg	Standard panels: 5.5 / Auto cleaning panels: 10.3 / Designer panels: 6.5						
Fan	Air flow rate	Cooling	Low/Medium/High	m^3/min	10.8/13.0/15.1	13.0/17.8/22.7	13.1/20.4/27.2		13.0/17.8/22.7	13.1/20.4/27.2	
		Heating	Low/Medium/High	m^3/min	10.8/12.9/15.1	13.2/18.1/23.0	13.0/20.2/27.0		13.2/18.1/23.0	13.0/20.2/27.0	
Sound power level	Cooling			dBA	51.0	54.0	58.0		54.0	58.0	
	Heating			dBA	51.0	54.0	58.0		54.0	58.0	
Sound pressure level	Cooling	Low/Medium/High		dBA	28.0/31.0/35.0	29.0/33.0/37.0	29.0/35.0/41.0		29.0/33.0/37.0	29.0/35.0/41.0	
	Heating	Low/Medium/High		dBA	28.0/31.0/33.0	29.0/33.0/37.0	29.0/35.0/41.0		29.0/33.0/37.0	29.0/35.0/41.0	
Control systems	Infrared remote control				BRC7FA532F / BRC7FB532F / BRC7FA532FB / BRC7FB532FB						
	Wired remote control				BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52						
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220						

Outdoor unit				RZASG	71MV1	100MV(1)	125MV(1)	140MV(1)	100MY(1)	125MY(1)	140MY(1)
Dimensions	Unit	HeightxWidthxDepth		mm	770x900x320	990x940x320					
Weight	Unit			kg	60	70 (MV1)/72 (MV)		78 (MV1)/79 (MV)	70 (MY1)/72 (MY)		78 (MV1)/79 (MV)
Sound power level	Cooling			dBA	65	70	71	73	70	71	73
	Heating			dBA	-		71	73	-	71	73
Sound pressure level	Cooling	Nom.		dBA	46	53		54	53		54
	Heating	Nom.		dBA	47	57					
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-15~46						
	Heating	Ambient	Min.~Max.	°CWB	-15~15.5						
Refrigerant	Type/GWP				R-32/675						
	Charge			kg/TCO2Eq	2.45/1.65	2.60/1.76		2.90/1.96	2.60/1.76		2.90/1.96
Piping connections	Liquid/Gas	OD		mm	9.52/15.9						
	Piping length	OU - IU	Max.	m	50						
		System	Equivalent	m	70						
			Chargeless	m	30						
	Additional refrigerant charge			kg/m	See installation manual						
	Level difference	IU - OU	Max.	m	30.0						
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240				3~/50/380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	20	25		32	16		

Contains fluorinated greenhouse gases

Round flow cassette

360° air discharge for optimum efficiency and comfort

- Ideal solution for small businesses and shops
- Optional automatic filter cleaning panel results in higher efficiency & comfort and lower maintenance costs.
- Two optional intelligent sensors improve energy efficiency and comfort
- Widest choice ever in decoration panels: designer panels in white (RAL9010) and black (RAL9005) and standard panels in white (RAL9010) with grey louvers or full white
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- Bigger flaps and unique swing pattern improve equal air distribution
- UV streamer kit, purifies the air of pollutants such as viruses, bacteria, fine dust, odours, allergens, etc ensuring a healthy and hygenic indoor environment
- Optional fresh air intake
- Branch duct discharge allows to optimize air distribution in irregular shaped rooms or to supply air to small adjacent rooms
- Standard drain pump with 675mm lift increases flexibility and installation speed

FCAG-B ARXM-A AZAS-MV AZAS-MY



FCAG-B



AZAS100-140MV_MY



BRC1H52W, BRP069C82

Floor and presence sensor

Home leave operation

Auto cleaning filter

Draught prevention

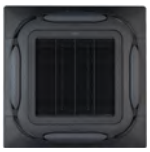
Individual flap control



White panel



White auto cleaning panel



Black panel



Black design panel

Efficiency data				FCAG + ARXM / AZAS	71B + ARXM71A	100B + AZAS100MV	125B + AZAS125MV	140B + AZAS140MV	100B + AZAS100MY	125B + AZAS125MY	140B + AZAS140MY
Cooling capacity	Nom./Max.			kW	6.80/7.05	9.50/-	12.1/-	13.4/-	9.50/-	12.1/-	13.4/-
Heating capacity	Nom./Max.			kW	7.50/7.58	10.8/-	13.5/-	15.5/-	10.8/-	13.5/-	15.5/-
Space cooling	Energy efficiency class					A	-		A	-	
	Capacity		Pdesign	kW	6.80	9.50	12.1	13.0	9.50	12.1	13.0
	SEER				5.87	6.1	5.6	6.2	6.1	5.6	6.2
	ηs,c			%	-		221	245	-	221	245
	Annual energy consumption			kWh/a	405	586	1,345	1,300	586	1,345	1,300
Space heating (Average climate)	Energy efficiency class				A	A	-		A	-	
	Capacity		Pdesign	kW	4.50	6.00		7.80	6.00		7.80
	SCOP/A				4.00	3.85	3.80	4.31	3.85	3.80	4.31
	ηs,h			%	-		149	169	-	149	169
	Annual energy consumption			kWh/a	1,573	2,182	2,211	2,534	2,182	2,211	2,534

Indoor unit				FCAG	71B	100B	125B	140B	100B	125B	140B
Dimensions	Unit	HeightxWidthxDepth		mm	204x840x840	246x840x840					
Weight	Unit			kg	21	23					
Air filter	Type				Resin net						
Decoration panel	Model				Standard panels: BYCQ140E - white with grey louvers / BYCQ140EW - full white / BYCQ140EB - black Auto cleaning panels: BYCQ140EGF - white / BYCQ140EGFB - black Designer panels: BYCQ140EP - white / BYCQ140EPB - black						
	Dimensions	HeightxWidthxDepth		mm	Standard panels: 65x950x950 / Auto cleaning panels: 148x950x950 / Designer panels: 106x950x950						
	Weight			kg	Standard panels: 5.5 / Auto cleaning panels: 10.3 / Designer panels: 6.5						
Fan	Air flow rate	Cooling	Low/Medium/High	m^3/min	10.8/13.0/15.1	13.0/17.8/22.7	13.1/20.4/27.2		13.0/17.8/22.7	13.1/20.4/27.2	
		Heating	Low/Medium/High	m^3/min	10.8/12.9/15.1	13.2/18.1/23.0	13.0/20.2/27.0		13.2/18.1/23.0	13.0/20.2/27.0	
Sound power level	Cooling			dBA	51.0	54.0	58.0		54.0	58.0	
	Heating			dBA	51.0	54.0	58.0		54.0	58.0	
Sound pressure level	Cooling	Low/Medium/High		dBA	28.0/31.0/35.0	29.0/33.0/37.0	29.0/35.0/41.0		29.0/33.0/37.0	29.0/35.0/41.0	
	Heating	Low/Medium/High		dBA	28.0/31.0/33.0	29.0/33.0/37.0	29.0/35.0/41.0		29.0/33.0/37.0	29.0/35.0/41.0	
Control systems	Infrared remote control				BRC7FA532F / BRC7FB532F / BRC7FA532FB / BRC7FB532FB						
	Wired remote control				BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52						
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220						

Outdoor unit				ARXM / AZAS	NEW ARXM71A	NEW AZAS100MV	NEW AZAS125MV	NEW AZAS140MV	NEW AZAS100MY	NEW AZAS125MY	NEW AZAS140MY
Dimensions	Unit	HeightxWidthxDepth		mm	734x954x401	990x940x320					
Weight	Unit			kg	49.0	72		79	72		79
Sound power level	Cooling			dBA	-	70	71	73	70	71	73
	Heating			dBA	-		71	73	-	71	73
Sound pressure level	Cooling	Nom.		dBA	52.0	53		54	53		54
	Heating	Nom.		dBA	52.0	57					
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10~46						
	Heating	Ambient	Min.~Max.	°CWB	-15~18	-15~15.5					
Refrigerant	Type/GWP				R-32/675						
	Charge			kg/TCO2Eq	1.15/0.780	2.60/1.76		2.90/1.96	2.60/1.76		2.90/1.96
Piping connections	Liquid/Gas OD			mm	9.52/15.9						
	Piping length	OU - IU	Max.	m	30						
		System	Equivalent	m	50						
			Chargeless	m	30						
	Additional refrigerant charge			kg/m	0.035 (for piping length exceeding 10m)	See installation manual					
	Level difference IU - OU		Max.	m	20.0	30.0					
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240				3~/50/380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	16	25	32		16		

Contains fluorinated greenhouse gases

ROUND FLOW UV STREAMER

Round flow cassette

360° air discharge for optimum efficiency and comfort

- Combination with split outdoor units is ideal for small retail, offices or residential applications
- Optional automatic filter cleaning panel results in higher efficiency & comfort and lower maintenance costs.
- Two optional intelligent sensors improve energy efficiency and comfort
- Widest choice ever in decoration panels: designer panels in white (RAL9010) and black (RAL9005) and standard panels in white (RAL9010) with grey louvers or full white
- Bigger flaps and unique swing pattern improve equal air distribution
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- UV streamer kit, purifies the air of pollutants such as viruses, bacteria, fine dust, odours, allergens, etc ensuring a healthy and hygenic indoor environment
- Optional fresh air intake
- Branch duct discharge allows to optimize air distribution in irregular shaped rooms or to supply air to small adjacent rooms
- Standard drain pump with 675mm lift increases flexibility and installation speed





White panel | White auto cleaning panel | Black panel | Black design panel

FCAG-B | RXM-A | RXM-A8 | RXM-A9

Efficiency data				FCAG + RXM	35B + 35A9	50B + 50A8	60B + 60A
Cooling capacity	Nom.			kW	3.50	5.00	5.70
Heating capacity	Nom.			kW	4.20	6.00	7.00
Space cooling	Energy efficiency class						
	Capacity		Pdesign	kW	3.50	5.00	5.70
	SEER				6.51	6.46	6.40
	Annual energy consumption			kWh/a	188	271	312
Space heating (Average climate)	Energy efficiency class						
	Capacity		Pdesign	kW	3.32	4.36	4.71
	SCOP/A				4.98	4.26	4.20
	Annual energy consumption			kWh/a	933	1,433	1,569

Indoor unit				FCAG	35B	50B	60B
Dimensions	Unit	HeightxWidthxDepth		mm	204x840x840		
Weight	Unit			kg	18	19	
Air filter	Type				Resin net		
Decoration panel	Model				Standard panels: BYCQ140E - white with grey louvers / BYCQ140EW - full white / BYCQ140EB - black Auto cleaning panels: BYCQ140EGF - white / BYCQ140EGFB - black Designer panels: BYCQ140EP - white / BYCQ140EPB - black		
	Dimensions	HeightxWidthxDepth		mm	Standard panels: 65x950x950 / Auto cleaning panels: 148x950x950 / Designer panels: 106x950x950		
	Weight			kg	Standard panels: 5.5 / Auto cleaning panels: 10.3 / Designer panels: 6.5		
Fan	Air flow rate	Cooling	Low/Medium/High	m^3/min	8.8/10.6/12.9	9.4/11.8/14.6	9.6/12.2/14.9
		Heating	Low/Medium/High	m^3/min	9.4/11.6/14.1	9.4/11.8/14.6	9.6/12.2/14.9
Sound power level	Cooling			dBA	49.0	49.0	51.0
	Heating			dBA	49.0	49.0	51.0
Sound pressure level	Cooling	Low/Medium/High		dBA	27.0/29.0/31.0		28.0/31.0/33.0
	Heating	Low/Medium/High		dBA	27.0/29.0/31.0		28.0/31.0/33.0
Control systems	Infrared remote control				BRC7FA532F / BRC7FB532F / BRC7FA532FB / BRC7FB532FB		
	Wired remote control				BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220		

					NEW	NEW	NEW
Outdoor unit				**RXM**	**35A9**	**50A8**	**60A**
Dimensions	Unit	HeightxWidthxDepth		mm	610x923x367		734x954x401
Weight	Unit			kg	36	40	49.0
Sound pressure level	Cooling	Nom.		dBA	47.0	48.0	
	Heating	Nom.		dBA	49.0		
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10~46		
	Heating	Ambient	Min.~Max.	°CWB	-15~18		
Refrigerant	Type				R-32		
	GWP				675	675.0	
	Charge			kg/TCO2Eq	0.95/0.65		1.15/0.780
Piping connections	Liquid	OD		mm	6.35		
	Gas	OD		mm	9.52	12.7	
	Piping length	OU - IU	Max.	m	20	30	
		System	Chargeless	m	10		
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 10m)		
	Level difference	IU - OU	Max.	m	15	20.0	
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240		
Current - 50Hz	Maximum fuse amps (MFA)			A	13		16

Contains fluorinated greenhouse gases



Fully Flat Cassette

Design & Genius in one

Why choose fully flat cassette

- Unique design in the market that integrates fully flat into the ceiling
- Advanced technology and top efficiency combined
- Most quiet cassette available on the market



Choice between grey or white panel

Benefits for the installer

- Unique product in the market!
- Most quiet unit (25dBA)
- The user-friendly remote control, available in several languages, enables the easy set-up of sensor option and control of the individual flap position
- Meeting European design taste.

Benefits for the consultant

- Unique product in the market!
- Blends seamlessly in any modern office interior design
- Ideal product to improve BREEAM score/EPBD in combination with Sky Air or VRV heat pump units.

Benefits for the end user

- Engineering excellence and unique design in one
- Most quiet unit (25dBA)
- Perfect working conditions: no more cold draughts
- Save up to 27% on your energy bill thanks to the optional sensors
- Flexible usage of space and suits any room configuration thanks to individual flap control
- User-friendly remote control, available in several languages.





Unique design

- Designed by a European design office to fully meet the European taste.
- Fully flat into the ceiling, leaving only 8mm.
- Fully integrated in the one ceiling tile, enabling lights, speakers and sprinklers to be installed in adjoining ceiling tiles.
- Decoration panel available in 2 colours (white and white-silver).





Differentiating in technology

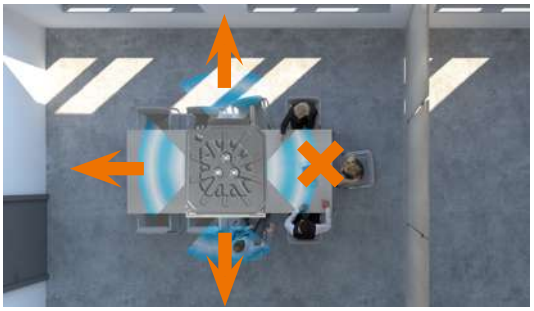
Optional presence sensor

- When the room is empty, it can adjust the set temperature or switch off the unit – saving energy.
- When people are detected, the direction of the airflow is adapted to avoid cold draughts being directed towards occupants.

Optional floor sensor

- Detects the temperature difference and re-directs the airflow to ensure even temperature distribution.





Top efficiency

- Seasonal efficiency labels up to A+++*
- When the room is empty, the sensor option can adjust the set temperature or switch off the unit – saving up to 27% energy.

* for FFA25,35A9 in combination with RXM25,35

Other benefits

- Individual flap control: easily control one or more flaps via the wired remote controller (BRC1E/BRC1H) when rearranging the room. When fully closing or blocking the flaps, the option "Sealing member of air discharge outlet" is needed.
- Most silent cassette in the market (25dBA), important for office applications.

Marketing tools

- https://www.daikin.eu/en_us/product-group/fully-flat-cassette.html
- www.youtube.com/DaikinEurope

Fully flat cassette

Unique design in the market that integrates fully flat into the ceiling

- Combination with Sky Air Alpha-series ensures best in class quality, highest efficiency and performance
- Fully flat integration in standard architectural ceiling tiles, leaving only 8mm
- Remarkable blend of iconic design and engineering excellence with an elegant finish in white or a combination of silver and white
- Two optional intelligent sensors improve energy efficiency and comfort
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- Optional fresh air intake
- Branch duct discharge allows to optimize air distribution in irregular shaped rooms or to supply air to small adjacent rooms
- Standard drain pump with 630mm lift increases flexibility and installation speed



FFA-A9 RZAG-B

Efficiency data				FFA + RZAG	35A9 + 35B	50A9 + 50B	60A9 + 60B
Cooling capacity	Min./Nom./Max.			kW	1.6/3.5/4.5	1.7/5.0/6.0	1.7/6.0/6.5
Heating capacity	Min./Nom./Max.			kW	1.40/4.00/5.00	1.50/5.80/6.00	1.60/7.00/7.50
Space cooling	Energy efficiency class				A+++		A+++
	Capacity		Pdesign	kW	3.50	5.00	6.00
	SEER				6.40	6.30	5.80
	Annual energy consumption			kWh/a	191	278	362
Space heating (Average climate)	Energy efficiency class				A+	A+	
	Capacity		Pdesign	kW	4.20	4.30	4.50
	SCOP/A				3.80	4.01	4.04
	Annual energy consumption			kWh/a	1,546	1,501	1,558

Indoor unit				FFA	35A9	50A9	60A9
Dimensions	Unit	HeightxWidthxDepth		mm	260x575x575		
Weight	Unit			kg	16.0	17.5	
Air filter	Type				Resin net		
Decoration panel	Model				BYFQ60C2W1W / BYFQ60C2W1S / BYFQ60B2W1 / BYFQ60B3W1		
	Colour				White (N9.5)/SILVER/White (RAL9010)/WHITE (RAL9010)		
	Dimensions	HeightxWidthxDepth		mm	46x620x620 / 46x620x620 / 55x700x700 / 55x700x700		
	Weight			kg	2.8/2.8/2.7/2.7		
Fan	Air flow rate	Cooling	Low/Medium/High	m^3/min	6.5/8.5/10.0	8.6/10.9/12.7	9.5/12.5/14.5
		Heating	Low/Medium/High	m^3/min	6.5/8.5/10.0	8.6/10.9/12.7	9.5/12.5/14.5
Sound power level	Cooling			dBA	51.0	56.0	60.0
Sound pressure level	Cooling	Low/Medium/High		dBA	25.0/30.5/34.0	27.0/34.0/39.0	32.0/40.0/43.0
	Heating	Low/Medium/High		dBA	25.0/30.5/34.0	27.0/34.0/39.0	32.0/40.0/43.0
Control systems	Infrared remote control				BRC7EB530W (standard panel) / BRC7F530W (white panel) / BRC7F530S (grey panel)		
	Wired remote control				BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240		

Outdoor unit				RZAG	35B	50B	60B
Dimensions	Unit	HeightxWidthxDepth		mm	734x870x373		
Weight	Unit			kg	52		
Sound power level	Cooling			dBA	62.0	63.0	64.0
	Heating			dBA	62.0	63.0	64.0
Sound pressure level	Cooling	Nom.		dBA	48.0	49.0	50.0
	Heating	Nom.		dBA	48.0	49.0	50.0
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-20~52		
	Heating	Ambient	Min.~Max.	°CWB	-20~24		
Refrigerant	Type/GWP				R-32/675.0		
	Charge			kg/TCO2Eq	1.55/1.05		
Piping connections	Liquid/Gas	OD		mm	6.35/9.52	6.35/12.7	
	Piping length	OU - IU	Max.	m	50		
		System	Chargeless	m	30		
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 30m)		
	Level difference	IU - OU	Max.	m	30.0		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240		

Contains fluorinated greenhouse gases

Fully flat cassette

Unique design in the market that integrates fully flat into the ceiling

- Combination with split outdoor units is ideal for small retail, offices and residential applications
- Fully flat integration in standard architectural ceiling tiles, leaving only 8mm
- Remarkable blend of iconic design and engineering excellence with an elegant finish in white or a combination of silver and white
- Unified indoor unit range for R-32 and R-410A
- Two optional intelligent sensors improve energy efficiency and comfort
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- Optional fresh air intake
- Branch duct discharge allows to optimize air distribution in irregular shaped rooms or to supply air to small adjacent rooms
- Standard drain pump with 630mm lift increases flexibility and installation speed



					FFA-A9	RXM-A	RXM-A8	RXM-A9
Efficiency data				**FFA + RXM**	**25A9 + 25A9**	**35A9 + 35A9**	**50A9 + 50A8**	**60A9 + 60A**
Cooling capacity	Nom.			kW	2.50	3.40	5.00	5.70
Heating capacity	Nom.			kW	3.20	4.20	5.80	7.00
Power input	Cooling	Nom.		kW	0.55	0.89	1.54	1.86
	Heating	Nom.		kW	0.82	1.20	1.66	2.05
Space cooling	Energy efficiency class							
	Capacity	Pdesign		kW	2.50	3.40	5.00	5.70
	SEER				6.32	6.47	5.90	5.76
	Annual energy consumption			kWh/a	138	184	297	346
Space heating (Average climate)	Energy efficiency class							
	Capacity	Pdesign		kW	2.31	3.10	3.84	3.96
	SCOP/A				4.29	4.19	3.86	4.04
	Annual energy consumption			kWh/a	754	1,035	1,393	1,373

Indoor unit				**FFA**	**25A9**	**35A9**	**50A9**	**60A9**
Dimensions	Unit	HeightxWidthxDepth		mm	260x575x575			
Weight	Unit			kg	16.0		17.5	
Air filter	Type				Resin net			
Decoration panel	Model				BYFQ60C2W1W / BYFQ60C2W1S / BYFQ60B2W1 / BYFQ60B3W1			
	Colour				White (N9.5)/SILVER/White (RAL9010)/WHITE (RAL9010)			
	Dimensions	HeightxWidthxDepth		mm	46x620x620 / 46x620x620 / 55x700x700 / 55x700x700			
	Weight			kg	2.8/2.8/2.7/2.7			
Fan	Air flow rate	Cooling	Low/Medium/High	m^3/min	6.5/8.0/9.0	6.5/8.5/10.0	8.6/10.9/12.7	9.5/12.5/14.5
		Heating	Low/Medium/High	m^3/min	6.5/8.0/9.0	6.5/8.5/10.0	8.6/10.9/12.7	9.5/12.5/14.5
Sound power level	Cooling			dBA	48.0	51.0	56.0	60.0
Sound pressure level	Cooling	Low/Medium/High		dBA	25.0/28.5/31.0	25.0/30.5/34.0	27.0/34.0/39.0	32.0/40.0/43.0
	Heating	Low/Medium/High		dBA	25.0/28.5/31.0	25.0/30.5/34.0	27.0/34.0/39.0	32.0/40.0/43.0
Control systems	Infrared remote control				BRC7EB530W (standard panel) / BRC7F530W (white panel) / BRC7F530S (grey panel)			
	Wired remote control				BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52			
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240			

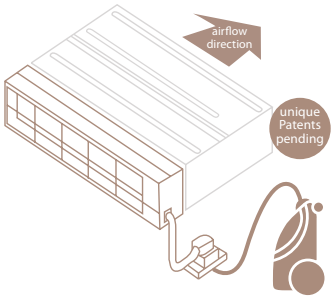
					NEW	NEW	NEW	NEW
Outdoor unit				**RXM**	**25A9**	**35A9**	**50A8**	**60A**
Dimensions	Unit	HeightxWidthxDepth		mm	610x923x367			734x954x401
Weight	Unit			kg	36		40	49.0
Sound pressure level	Cooling	Nom.		dBA	46.0	47.0	48.0	
	Heating	Nom.		dBA	47.0	49.0		
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10~46			
	Heating	Ambient	Min.~Max.	°CWB	-15~18			
Refrigerant	Type				R-32			
	GWP				675		675.0	
	Charge			kg/TCO2Eq	0.95/0.65			1.15/0.780
Piping connections	Liquid	OD		mm	6.35			
	Gas	OD		mm	9.52		12.7	
	Piping length	OU - IU	Max.	m	20		30	
		System	Chargeless	m	10			
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 10m)			
	Level difference	IU - OU	Max.	m	15		20.0	
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240			
Current - 50Hz	Maximum fuse amps (MFA)			A	13			16

Contains fluorinated greenhouse gases



Auto cleaning filter for concealed ceiling units

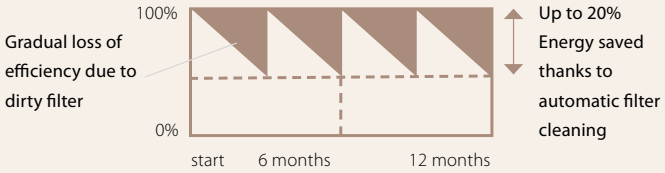
The unique automatic cleaning filter achieves higher efficiency and comfort with lower maintenance costs



Reduce running costs

- Automatic filter cleaning ensures low maintenance costs because the filter is always clean

Efficiency profile change for duct indoor unit during operation



Minimal time required for filter cleaning

- The dust box can be emptied with a vacuum cleaner for fast and easy cleaning
- No more dirty ceilings

Improved indoor air quality

- Optimum airflow eliminates draft and insulates sound

Superb reliability

- Prevents clogged filters for seamless operation

Unique technology

- Unique and innovative filter technology inspired by the Daikin auto cleaning cassette



How does it work?

1 Scheduled automatic filter cleaning

2 Dust collects in a dust box that's integrated into the unit

3 The dust can easily be removed with a vacuum cleaner

Combination table

	Split / Sky Air				VRV						
	FDXM-F9				FXDA-A/FXDQ-A3						
	25	35	50	60	15	20	25	32	40	50	63
BAE20A62	●	●			●	●	●	●			
BAE20A82									●	●	
BAE20A102			●	●							●

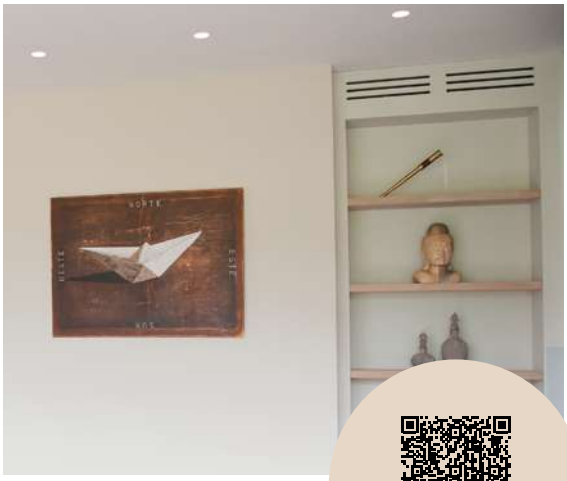
Specifications

	BAE20A62	BAE20A82	BAE20A102
Height (mm)	210		
Width (mm)	830	1,030	1,230
Depth (mm)	188		

Multi zoning kit

for concealed ceiling units

The multi-zoning system is a room-by-room controller. It is fitted with motorised dampers, which immediately adapt using Daikin ducted solutions. This system supports control of up to 8 zones via a centralised thermostat located in the main room and individual thermostats for each of the zones.



Easy selection via our NEW software!

Benefits

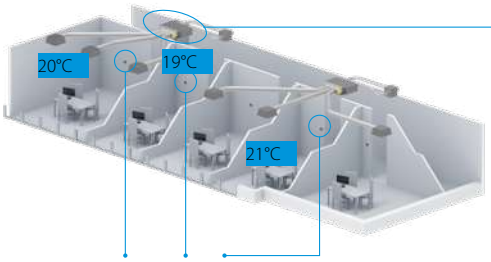
Increased comfort

- Increases comfort levels by allowing more individual zone control
  - Up to 8 individual zones can be served thanks to separate modulating dampers
  - Individual thermostat for room-by-room or zone-by-zone control

Easy to install

- Automatic air flow adjustment according to the demand
- Easy to install, integrates with the Daikin indoor units and system controls
- Time saving as plenum comes fully pre-assembled with dampers, and control boards
- Reduces the amount of refrigerant required in the installation

How does it work?





Zoning box: fully pre-assembled plenum with dampers

Individual zone thermostats

Bluezero - Airzone Main Thermostat

- Color graphic interface for controlling zones



AZCE6BLUEZEROCB (Wired)

Airzone Zone Thermostat

- Graphic interface with low-energy e-ink screen for controlling zones



AZCE6THINKRB (Wireless)

Airzone Zone Thermostat

- Thermostat with buttons for controlling the temperature



AZCE6LITECB (Wired)
AZCE6LITERB (Wireless)

Compatibility

Number of motorised dampers		Reference	Dimensions H x W x D (mm)	Ø (mm)	Sky Air FDXM-F9 25	35	50	60	FBA-A(9) 35	50	60	71	100	125	140	ADEA-A 71	100	125	VRV IV+ FXDQ-A3 15	20	25	32	40	50	63	FXSQ-A 15	20	25	32	40	50	63	80	100	125	140
Standard plenum	2	AZEZ6DAIST07XS2	300 x 930 x 454	200																						•	•	•	•						
		AZEZ6DAIST07S2							•	•																			•	•					
	3	AZEZ6DAIST07XS3																								•	•	•	•						
		AZEZ6DAIST07S3							•	•																			•	•					
	4	AZEZ6DAIST07S4	300 x 1,140 x 454						•	•																			•	•					
		AZEZ6DAIST07M4									•	•				•															•	•			
	5	AZEZ6DAIST07M5	300 x 1,425 x 454								•	•				•															•	•			
		AZEZ6DAIST07L5											•	•	•		•	•															•	•	
	6	AZEZ6DAIST07M6	300 x 1,638 x 454								•	•				•															•	•			
		AZEZ6DAIST07L6											•	•	•		•	•															•	•	
	7	AZEZ6DAIST07L7	515 x 1,425 x 454										•	•	•		•	•															•	•	
		AZEZ6DAIST07XL7																																	•
	8	AZEZ6DAIST07L8											•	•	•		•	•															•	•	
		AZEZ6DAIST07XL8																																	•
Medium plenum	2	AZEZ6DAIBS07XS2	250 x 930 x 454	200																						•	•	•	•						
		AZEZ6DAIBS07S2							•	•																			•	•					
	3	AZEZ6DAIBS07XS3																								•	•	•	•						
		AZEZ6DAIBS07S3							•	•																			•	•					
		AZEZ6DAIBS07M3									•	•				•															•	•			
	4	AZEZ6DAIBS07S4	250 x 1,140 x 454						•	•																			•	•					
		AZEZ6DAIBS07M4									•	•				•															•	•			
		AZEZ6DAIBS07L4											•	•	•		•	•															•	•	
	5	AZEZ6DAIBS07S5	250 x 1,425 x 454						•	•																			•	•					
		AZEZ6DAIBS07M5									•	•				•															•	•			
		AZEZ6DAIBS07L5											•	•	•		•	•															•	•	
		AZEZ6DAIBS07XL5																																	•
	6	AZEZ6DAIBS07M6	250 x 1,638 x 454								•	•				•															•	•			
		AZEZ6DAIBS07L6											•	•	•		•	•															•	•	
		AZEZ6DAIBS07XL6																																	•
Slim plenum	2	AZEZ6DAISL01S2	210 x 720 x 444	200	•	•													•	•	•	•													
	3	AZEZ6DAISL01S3			•	•													•	•	•	•													
	4	AZEZ6DAISL01M4	210 x 930 x 444																				•	•											
	5	AZEZ6DAISL01L5	210 x 1,140 x 444				•	•																	•										

(1) reversible units can be blocked to heating only via AZX6MCS module

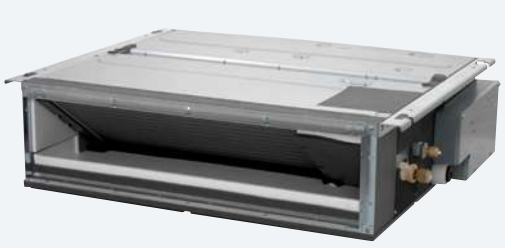
For more information on options refer to page 978

Slim concealed ceiling unit

Compact concealed ceiling unit, with a height of only 200mm

- Combination with Sky Air Alpha-series ensures best in class quality, highest efficiency and performance
- Invisible unit as the unit is concealed in the ceiling: only the suction and discharge grilles are visible
- Compact dimensions, can easily be mounted in a ceiling void of only 240mm
- Medium external static pressure up to 40Pa facilitates unit use with flexible ducts of varying lengths
- Auto cleaning filter option ensures maximum efficiency, comfort and reliability by regular filter cleaning
- Multi zoning kit allows multiple individually-controlled climate zones to be served by one indoor unit
- Onecta app (optional): control your indoor from any location with an app, via your local network or internet and keep an overview on your energy consumption

with auto cleaning and multi zoning option



FDXM25-35F9

Auto cleaning filter

Multi zoning

Onecta app

Fan only



RZAG35-60B



BRC1H52W BRP069C81

FDXM-F9 RZAG-B

Efficiency data				**FDXM + RZAG**	**35F9 + 35B**	**50F9 + 50B**	**60F9 + 60B**
Cooling capacity	Min./Nom./Max.			kW	1.6/3.5/4.5	1.7/5.0/6.0	1.7/6.0/6.5
Heating capacity	Min./Nom./Max.			kW	1.40/4.00/5.00	1.70/5.00/6.00	1.70/7.00/7.50
Space cooling	Energy efficiency class					A	
	Capacity		Pdesign	kW	3.50	5.00	6.00
	SEER				5.90		5.70
	Annual energy consumption			kWh/a	208	296	368
Space heating (Average climate)	Energy efficiency class					A	
	Capacity		Pdesign	kW	3.50	4.30	4.50
	SCOP/A					3.90	
	Annual energy consumption			kWh/a	1,255	1,544	1,616

Indoor unit				**FDXM**	**35F9**	**50F9**	**60F9**
Dimensions	Unit	HeightxWidthxDepth		mm	200x750x620	200x1,150x620	
Weight	Unit			kg	21	28	
Air filter	Type					Removable / washable	
Fan	Air flow rate	Cooling	Low/Medium/High	m^3/min	7.3/8.0/8.7	13.3/14.6/15.8	13.5/14.8/16.0
		Heating	Low/Medium/High	m^3/min	7.3/8.0/8.7	13.3/14.6/15.8	13.5/14.8/16.0
	External static pressure	Nom.		Pa	30	40	
Sound power level	Cooling			dBA	53.0	55.0	56.0
	Heating			dBA	53.0	55.0	56.0
Sound pressure level	Cooling	Low/High		dBA	27.0/35.0	30.0/38.0	
	Heating	Low/High		dBA	27.0/35.0	30.0/38.0	
Control systems	Infrared remote control					BRC4C65	
	Wired remote control					BRC1H52W/S/K, BRC1E53A/B/C, BRC1D52	

Outdoor unit				**RZAG**	**35B**	**50B**	**60B**
Dimensions	Unit	HeightxWidthxDepth		mm		734x870x373	
Weight	Unit			kg		52	
Sound power level	Cooling			dBA	62.0	63.0	64.0
	Heating			dBA	62.0	63.0	64.0
Sound pressure level	Cooling	Nom.		dBA	48.0	49.0	50.0
	Heating	Nom.		dBA	48.0	49.0	50.0
Operation range	Cooling	Ambient	Min.~Max.	°CDB		-20~52	
	Heating	Ambient	Min.~Max.	°CWB		-20~24	
Refrigerant	Type/GWP					R-32/675.0	
	Charge			kg/TCO2Eq		1.55/1.05	
Piping connections	Liquid/Gas OD			mm	6.35/9.52	6.35/12.7	
	Piping length	OU - IU	Max.	m		50	
		System	Chargeless	m		30	
	Additional refrigerant charge			kg/m		0.02 (for piping length exceeding 30m)	
	Level difference	IU - OU	Max.	m		30.0	
Power supply	Phase/Frequency/Voltage			Hz/V		1~/50/220-240	

Contains fluorinated greenhouse gases

Slim concealed ceiling unit

Compact concealed ceiling unit, with a height of only 200mm

- Combination with split outdoor units is ideal for small retail, offices and residential applications
- Invisible unit as the unit is concealed in the ceiling: only the suction and discharge grilles are visible
- Compact dimensions, can easily be mounted in a ceiling void of only 240mm
- Medium external static pressure up to 40Pa facilitates unit use with flexible ducts of varying lengths
- Auto cleaning filter option ensures maximum efficiency, comfort and reliability by regular filter cleaning
- Multi zoning kit allows multiple individually-controlled climate zones to be served by one indoor unit
- Onecta app (optional): control your indoor from any location with an app, via your local network or internet.

with auto cleaning and multi zoning option



FDXM-F9 RXM-A RXM-A8 RXM-A9

Efficiency data				FDXM + RXM	25F9 + 25A9	35F9 + 35A9	50F9 + 50A8	60F9 + 60A
Cooling capacity	Nom.			kW	1.30/2.40/3.00	1.40/3.40/3.80	1.70/5.00/5.30	1.70/6.00/6.50
Heating capacity	Nom./Max.			kW	1.30/3.20/4.50	1.40/4.00/5.00	1.70/5.80/6.00	1.70/7.00/7.10
Space cooling	Energy efficiency class				A	A	A	A
	Capacity		Pdesign	kW	2.40	3.40	5.00	6.00
	SEER				5.79	5.35	5.70	5.56
	Annual energy consumption			kWh/a	145	222	307	378
Space heating (Average climate)	Energy efficiency class				A	A	A	
	Capacity		Pdesign	kW	2.60	2.90	4.00	4.60
	SCOP/A				4.29	3.95	3.89	3.80
	Annual energy consumption			kWh/a	848	1,028	1,440	1,693

Indoor unit				FDXM	25F9	35F9	50F9	60F9
Dimensions	Unit	HeightxWidthxDepth		mm	200x750x620		200x1,150x620	
Weight	Unit			kg	21		28	
Air filter	Type				Removable/washable			
Fan	Air flow rate	Cooling	Low/Medium/High	m^3/min	7.3/8.0/8.7		13.3/14.6/15.8	13.5/14.8/16.0
		Heating	Low/Medium/High	m^3/min	7.3/8.0/8.7		13.3/14.6/15.8	13.5/14.8/16.0
	External static pressure	Nom.		Pa	30		40	
Sound power level	Cooling			dBA	53.0		55.0	56.0
	Heating			dBA	53.0		55.0	56.0
Sound pressure level	Cooling	Low/High		dBA	27.0/35.0		30.0/38.0	
	Heating	Low/High		dBA	27.0/35.0		30.0/38.0	

					NEW	NEW	NEW	NEW
Outdoor unit				**RXM**	**25A9**	**35A9**	**50A8**	**60A**
Dimensions	Unit	HeightxWidthxDepth		mm	610x923x367			734x954x401
Weight	Unit			kg	36		40	49.0
Sound pressure level	Cooling	Nom.		dBA	46.0	47.0	48.0	
	Heating	Nom.		dBA	47.0	49.0		
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10~46			
	Heating	Ambient	Min.~Max.	°CWB	-15~18			
Refrigerant	Type				R-32			
	GWP				675		675.0	
	Charge			kg/TCO2Eq	0.95/0.65			1.15/0.780
Piping connections	Liquid	OD		mm	6.35			
	Gas	OD		mm	9.52		12.7	
	Piping length	OU - IU	Max.	m	20		30	
		System	Chargeless	m	10			
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 10m)			
	Level difference	IU - OU	Max.	m	15		20.0	
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240			
Current - 50Hz	Maximum fuse amps (MFA)			A	13			16

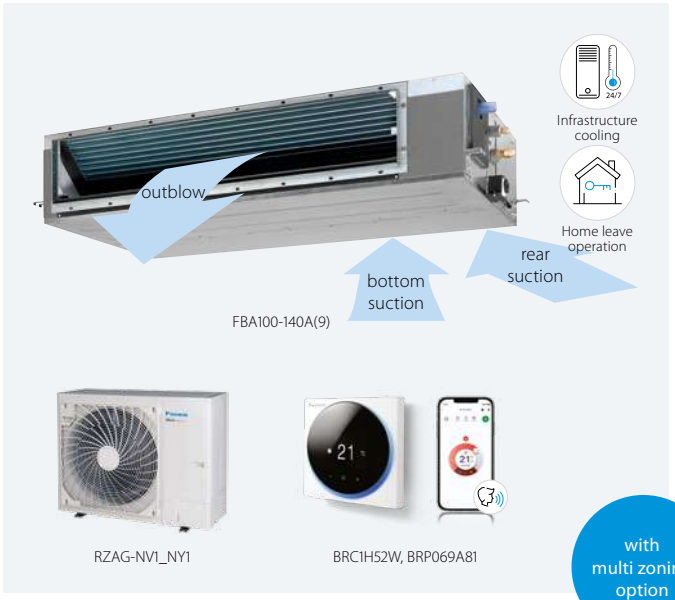
Contains fluorinated greenhouse gases

SkyAir Alpha-series BLUEVOLUTION

Concealed ceiling unit with medium ESP

Slimmest yet most powerful medium static pressure unit on the market

- Slimmest unit in class, only 245mm (300mm built-in height) and therefore narrow ceiling voids are no longer a challenge
- Low operation sound level down to 25dBA
- Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- Discretely concealed in the ceiling: only the suction and discharge grilles are visible
- Multi zoning kit allows multiple individually-controlled climate zones to be served by one indoor unit
- Optional fresh air intake
- Flexible installation: air suction direction can be altered from rear to bottom suction and choice between free use or connection to optional suction grilles
- Standard built-in drain pump with 625mm lift increases flexibility and installation speed



FBA-A(9) RZAG-B RZAG-NV1 RZAG-NY1

Efficiency data				FBA + RZAG	35A9+35B	50A9+50B	60A9+60B	71A9+71NV1	100A+100NV1	125A+125NV1	140A+140NV1	71A9+71NY1	100A+100NY1	125A+125NY1	140A+140NY1
Cooling capacity	Min./Nom./Max.			kW	1.6/3.5/5.0	1.7/5.0/6.0	1.7/6.0/7.0	-/6.80/-	-/9.50/-	-/12.1/-	-/13.4/-	-/6.80/-	-/9.50/-	-/12.1/-	-/13.4/-
Heating capacity	Min./Nom./Max.			kW	1.40/4.00/5.00	1.70/6.00/6.00	1.70/7.00/7.50	-/7.50/-	-/10.8/-	-/13.5/-	-/15.5/-	-/7.50/-	-/10.8/-	-/13.5/-	-/15.5/-
Space cooling	Energy efficiency class						A			-		A		-	
	Capacity		Pdesign	kW	3.50	5.00	6.00	6.80	9.50	12.1	13.4	6.80	9.50	12.1	13.4
	SEER				6.12	6.30	6.15	6.50	6.47	6.56	6.42	6.50	6.47	6.56	6.42
	ηs,c			%			-			259	254	-		259	254
	Annual energy consumption			kWh/a	200	278	341	366	514	1,107	1,252	366	514	1,107	1,252
Space heating (Average climate)	Energy efficiency class						A			-		A		-	
	Capacity		Pdesign	kW	4.20	4.30	4.50	4.70	7.80	9.52		4.70	7.80	9.52	
	SCOP/A				4.10			4.20	4.36	4.37	4.34	4.20	4.36	4.37	4.34
	ηs,h			%			-			172	171	-		172	171
	Annual energy consumption			kWh/a	1,434	1,469	1,537	1,566	2,505	3,050	3,070	1,566	2,505	3,050	3,070

Indoor unit				FBA	35A9	50A9	60A9	71A9	100A	125A	140A	71A9	100A	125A	140A
Dimensions	Unit	HeightxWidthxDepth		mm	245x700x800		245x1,000x800		245x1,400x800			245x1,000x800	245x1,400x800		
Weight	Unit			kg	28.0		35.0		46.0			35.0	46.0		
Air filter	Type				Resinnet										
Fan	Air flow rate	Cooling	Low/Medium/High	m^3/min	10.5/12.5/15.0		12.5/15.0/18.0		23.0/26.0/29.0	23.5/29.0/34.0		12.5/15.0/18.0	23.0/26.0/29.0	23.5/29.0/34.0	
		Heating	Low/Medium/High	m^3/min	10.5/12.5/15.0		12.5/15.0/18.0		23.0/26.0/29.0	23.5/29.0/34.0		12.5/15.0/18.0	23.0/26.0/29.0	23.5/29.0/34.0	
	External static pressure	Nom./High		Pa	30/150				40/150	50/150		30/150	40/150	50/150	
Sound power level	Cooling			dBA	60.0		56.0		58.0	62.0		56.0	58.0	62.0	
Sound pressure level	Cooling	Low/High		dBA	29.0/35.0		25.0/30.0		30.0/34.0	32.0/37.0		25.0/30.0	30.0/34.0	32.0/37.0	
	Heating	Low/High		dBA	29.0/37.0		25.0/31.0		30.0/36.0	32.0/38.0		25.0/31.0	30.0/36.0	32.0/38.0	
Control systems	Infrared remote control				BRC4C65 / BRC4C66										
	Wired remote control				BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52										
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220										
Piping connections	Drain				VP20 (I.D. 20/O.D. 26)										
Drain-up height				mm	625										

Outdoor unit				RZAG	35B	50B	60B	71NV1	100NV1	125NV1	140NV1	71NY1	100NY1	125NY1	140NY1
Dimensions	Unit	HeightxWidthxDepth		mm	734x870x373			870x1,100x460							
Weight	Unit			kg	52			81	85	95		81	85	94	
Sound power level	Cooling			dBA	62.0	63.0	64.0	64	66	69	70	64	66	69	70
	Heating			dBA	62.0	63.0	64.0	-		68	71	-		68	71
Sound pressure level	Cooling	Nom.		dBA	48.0	49.0	50.0	46	47	49	50	46	47	49	50
	Heating	Nom.		dBA	48.0	49.0	50.0	48	50	52		48	50	52	
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-20 ~ 52			-20 ~52							
	Heating	Ambient	Min.~Max.	°CWB	-20 ~ 24			-20 ~18							
Refrigerant	Type/GWP				R-32/675.0			R-32/675							
	Charge			kg/TCO2Eq	1.55/1.05			3.20/2.16		3.70/2.50		3.20/2.16		3.70/2.50	
Piping connections	Liquid/Gas OD			mm	6.35/9.52	6.35/12.7		9.52/15.9							
	Piping length	OU - IU	Max.	m	50			55	85			55	85		
		System	Equivalent	m	-			75	100			75	100		
			Chargeless	m	30			40							
	Level difference	IU - OU	Max.	m	30.0			30							
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 30m)			See installation manual							
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240							3~/50/380-415			
Current - 50Hz	Maximum fuse amps (MFA)			A	-			20		32		16			

Contains fluorinated greenhouse gases

SkyAir Advance-series
BLUEVOLUTION

Concealed ceiling unit with medium ESP

Slimmest yet most powerful medium static pressure unit on the market

- Combination with Sky Air Advance-series ensures good value for money for all types of commercial applications
- Slimmest unit in class, only 245mm (300mm built-in height) and therefore narrow ceiling voids are no longer a challenge
- Low operation sound level down to 25dBA
- Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume

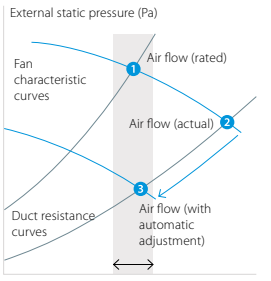


Automatic Airflow Adjustment function

Automatically selects the most appropriate fan curve to achieve the units' nominal air flow within ±10%

Why?

After installation the real ducting will frequently differ from the initially calculated air flow resistance ✳ the real air flow may be much lower or higher than nominal, leading to a lack of capacity or uncomfortable air temperature
Automatic Airflow Adjustment function will adapt the unit's fan speed to any ducting automatically (10 or more fan curves are available on every model), making installation much faster



FBA-A(9) RZASG-MV1 RZASG-MY1 RZASG-MV RZASG-MY

Efficiency data				FBA + RZASG	71A9 + 71MV1	100A + 100MV(1)	125A + 125MV(1)	140A + 140MV(1)	100A + 100MY(1)	125A + 125MY(1)	140A + 140MY(1)
Cooling capacity	Nom.			kW	6.80	9.50	12.1	13.4	9.50	12.1	13.4
Heating capacity	Nom.			kW	7.50	10.8	13.5	15.5	10.8	13.5	15.5
Space cooling	Energy efficiency class				A+++	A+++	-		A+++	-	
	Capacity		Pdesign	kW	6.80	9.50	12.1	13.4	9.50	12.1	13.4
	SEER				6.19	5.83	5.49	5.81	5.83	5.49	5.81
	ηs,c			%	-		217	229	-	217	229
	Annual energy consumption			kWh/a	385	570	1,322	1,384	570	1,322	1,384
Space heating (Average climate)	Energy efficiency class				A+	A	-		A	-	
	Capacity		Pdesign	kW	4.50	6.00		7.80	6.00		7.80
	SCOP/A				4.01	3.85	3.63	3.85		3.63	3.85
	ηs,h			%	-		142	151	-	142	151
	Annual energy consumption			kWh/a	1,571	2,182	2,314	2,836	2,182	2,314	2,836

Indoor unit				FBA	71A9	100A	125A	140A	100A	125A	140A
Dimensions	Unit	HeightxWidthxDepth		mm	245x1,000x800	245x1,400x800					
Weight	Unit			kg	35.0	46.0					
Air filter	Type				Resin net						
Fan	Air flow rate	Cooling	Low/Medium/High	m³/min	12.5/15.0/18.0	20.0/24.5/29.0	23.5/29.0/34.0		20.0/24.5/29.0	23.5/29.0/34.0	
		Heating	Low/Medium/High	m³/min	12.5/15.0/18.0	20.0/24.5/29.0	23.5/29.0/34.0		20.0/24.5/29.0	23.5/29.0/34.0	
	External static pressure	Nom.		Pa	30	40	50		40	50	
Sound power level	Cooling			dBA	56.0	58.0	62.0		58.0	62.0	
Sound pressure level	Cooling	Low/Medium/High		dBA	25.0/28.0/30.0	30.0/32.0/34.0	32.0/35.0/37.0		30.0/32.0/34.0	32.0/35.0/37.0	
	Heating	Low/Medium/High		dBA	25.0/28.0/31.0	30.0/33.0/36.0	32.0/35.0/38.0		30.0/33.0/36.0	32.0/35.0/38.0	
Control systems	Infrared remote control				BRC4C65 / BRC4C66						
	Wired remote control				BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52						
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220						

Outdoor unit				RZASG	71MV1	100MV(1)	125MV(1)	140MV(1)	100MY(1)	125MY(1)	140MY(1)
Dimensions	Unit	HeightxWidthxDepth		mm	770x900x320	990x940x320					
Weight	Unit			kg	60	70 (MY1) / 72 (MY)		78 (MV1) / 79 (MV)	70 (MY1) / 72 (MY)		78 (MV1) / 79 (MV)
Sound power level	Cooling			dBA	65	70	71	73	70	71	73
	Heating			dBA	-		71	73	-	71	73
Sound pressure level	Cooling	Nom.		dBA	46	53		54	53		54
	Heating	Nom.		dBA	47	57					
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-15~46						
	Heating	Ambient	Min.~Max.	°CWB	-15~15.5						
Refrigerant	Type/GWP				R-32/675						
	Charge			kg/TCO2Eq	2.45/1.65	2.60/1.76		2.90/1.96	2.60/1.76		2.90/1.96
Piping connections	Liquid/Gas	OD		mm	9.52/15.9						
	Piping length	OU - IU	Max.	m	50						
		System	Equivalent	m	70						
			Chargeless	m	30						
	Additional refrigerant charge			kg/m	See installation manual						
	Level difference	IU - OU	Max.	m	30.0						
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240				3~/50/380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	20	25	32		16		

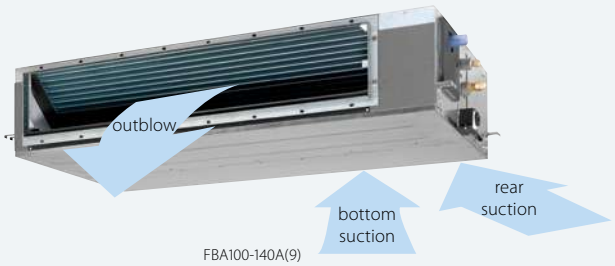
Contains fluorinated greenhouse gases

SkyAir Active-series
BLUEVOLUTION

Concealed ceiling unit with medium ESP

Slimmest yet most powerful medium static pressure unit on the market

- Ideal solution for small businesses and shops
- Slimmest unit in class, only 245mm (300mm built-in height) and therefore narrow ceiling voids are no longer a challenge
- Low operation sound level down to 25dBA
- Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- Discretely concealed in the ceiling: only the suction and discharge grilles are visible
- Multi zoning kit allows multiple individually-controlled climate zones to be served by one indoor unit
- Reduced energy consumption thanks to specially developed DC fan motor
- Optional fresh air intake
- Flexible installation: air suction direction can be altered from rear to bottom suction and choice between free use or connection to optional suction grilles
- Standard built-in drain pump with 625mm lift increases flexibility and installation speed



FBA100-140A(9)


AZAS100-140MV_MY


BRC1H52W BRP069C81

with multi zoning option

FBA-A(9) ARXM-A AZAS-MV AZAS-MY

Efficiency data				FBA + ARXM/AZAS	71A9 + ARXM71A	100A + AZAS100MV	125A + AZAS125MV	140A + AZAS140MV	100A + AZAS100MY	125A + AZAS125MY	140A + AZAS140MY
Cooling capacity	Nom./Max.			kW	6.80/6.98	9.50/-	12.1/-	13.4/-	9.50/-	12.1/-	13.4/-
Heating capacity	Nom./Max.			kW	7.50/7.66	10.8/-	13.5/-	15.5/-	10.8/-	13.5/-	15.5/-
Space cooling	Energy efficiency class				A		-		A	-	
	Capacity		Pdesign	kW	6.80	9.50	12.1	13.0	9.50	12.1	13.0
	SEER				5.57	5.7	5.2	5.7	5.7	5.2	5.7
	ηs,c			%	-		205	225	-	205	225
	Annual energy consumption			kWh/a	427	633	1,497	1,418	633	1,497	1,418
Space heating (Average climate)	Energy efficiency class				A		-		A	-	
	Capacity		Pdesign	kW	4.50	6.00		7.80	6.00		7.80
	SCOP/A				3.81		3.55	3.85	3.81	3.55	3.85
	ηs,h			%	-		139	151	-	139	151
	Annual energy consumption			kWh/a	1,652	2,205	2,366	2,836	2,205	2,366	2,836

Indoor unit				FBA	71A9	100A	125A	140A	100A	125A	140A
Dimensions	Unit	HeightxWidthxDepth		mm	245x1,000x800	245x1,400x800					
Weight	Unit			kg	35.0	46.0					
Air filter	Type				Resin net						
Fan	Air flow rate	Cooling	Low/Medium/High	m^3/min	12.5/15.0/18.0	20.0/24.5/29.0	23.5/29.0/34.0		20.0/24.5/29.0	23.5/29.0/34.0	
		Heating	Low/Medium/High	m^3/min	12.5/15.0/18.0	20.0/24.5/29.0	23.5/29.0/34.0		20.0/24.5/29.0	23.5/29.0/34.0	
	External static pressure	Nom.		Pa	30	40	50		40	50	
Sound power level	Cooling			dBA	56.0	58.0	62.0		58.0	62.0	
Sound pressure level	Cooling	Low/Medium/High		dBA	25.0/28.0/30.0	30.0/32.0/34.0	32.0/35.0/37.0		30.0/32.0/34.0	32.0/35.0/37.0	
	Heating	Low/Medium/High		dBA	25.0/28.0/31.0	30.0/33.0/36.0	32.0/35.0/38.0		30.0/33.0/36.0	32.0/35.0/38.0	
Control systems	Infrared remote control				BRC4C65 / BRC4C66						
	Wired remote control				BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52						
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220						

					NEW	NEW	NEW	NEW	NEW	NEW	NEW
Outdoor unit				ARXM/AZAS	ARXM71A	AZAS100MV	AZAS125MV	AZAS140MV	AZAS100MY	AZAS125MY	AZAS140MY
Dimensions	Unit	HeightxWidthxDepth		mm	734x954x401	990x940x320					
Weight	Unit			kg	49.0	72		79	72		79
Sound power level	Cooling			dBA	-	70	71	73	70	71	73
	Heating			dBA	-		71	73	-	71	73
Sound pressure level	Cooling	Nom.		dBA	52.0	53		54	53		54
	Heating	Nom.		dBA	52.0	57					
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10~46						
	Heating	Ambient	Min.~Max.	°CWB	-15~18	-15~15.5					
Refrigerant	Type/GWP				R-32/675						
	Charge			kg/TCO2Eq	1.15/0.780	2.60/1.76		2.90/1.96	2.60/1.76		2.90/1.96
Piping connections	Liquid/Gas OD			mm	9.52/15.9						
	Piping length	OU - IU	Max.	m	-	30					
		System	Equivalent	m	-	50					
			Chargeless	m	30						
	Additional refrigerant charge			kg/m	0.035 (for piping length exceeding 10m)	See installation manual					
	Level difference	IU - OU	Max.	m	20.0	30.0					
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240				3~/50/380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	16	25	32		16		

Contains fluorinated greenhouse gases

Concealed ceiling unit with medium ESP

Slimmest yet most powerful medium static pressure unit on the market

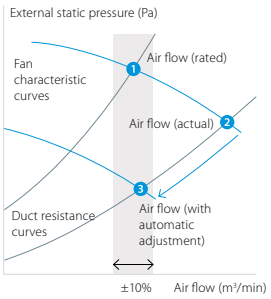
- Combination with split outdoor units is ideal for small retail, offices and residential applications
- Slimmest unit in class, only 245mm (300mm built-in height) and therefore narrow ceiling voids are no longer a challenge
- Low operation sound level down to 25dBA
- Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume

Automatic Airflow Adjustment function

Automatically selects the most appropriate fan curve to achieve the units' nominal air flow within ±10%

Why?

After installation the real ducting will frequently differ from the initially calculated air flow resistance
✳ the real air flow may be much lower or higher than nominal, leading to a lack of capacity or uncomfortable air temperature
Automatic Airflow Adjustment function will adapt the unit's fan speed to any ducting automatically (10 or more fan curves are available on every model), making installation much faster





FBA-A(9) RXM-A RXM-A8 RXM-A9

Efficiency data				FBA + RXM	35A9 + 35A9	50A9 + 50A8	60A9 + 60A
Cooling capacity	Nom.			kW	3.40	5.00	5.70
Heating capacity	Nom.			kW	4.00	5.50	7.00
Space cooling	Energy efficiency class						
	Capacity		Pdesign	kW	3.40	5.00	5.70
	SEER				6.30	6.10	5.91
	Annual energy consumption			kWh/a	189	287	336
Space heating (Average climate)	Energy efficiency class						
	Capacity		Pdesign	kW	2.90	4.40	4.60
	SCOP/A				4.17	4.02	4.01
	Annual energy consumption			kWh/a	973	1,532	1,607

Indoor unit				FBA	35A9	50A9	60A9
Dimensions	Unit	HeightxWidthxDepth		mm	245x700x800		245x1,000x800
Weight	Unit			kg	28.0		35.0
Air filter	Type				Resin net		
Fan	Air flow rate	Cooling	Low/Medium/High	m^3/min	10.5/12.5/15.0		12.5/15.0/18.0
		Heating	Low/Medium/High	m^3/min	10.5/12.5/15.0		12.5/15.0/18.0
	External static pressure	Nom.		Pa	30		
Sound power level	Cooling			dBA	60.0		56.0
Sound pressure level	Cooling	Low/Medium/High		dBA	29.0/32.0/35.0		25.0/28.0/30.0
	Heating	Low/Medium/High		dBA	29.0/34.0/37.0		25.0/28.0/31.0
Control systems	Infrared remote control				BRC4C65 / BRC4C66		
	Wired remote control				BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220		

					NEW	NEW	NEW
Outdoor unit				**RXM**	**35A9**	**50A8**	**60A**
Dimensions	Unit	HeightxWidthxDepth		mm	610x923x367		734x954x401
Weight	Unit			kg	36	40	49.0
Sound pressure level	Cooling	Nom.		dBA	47.0	48.0	
	Heating	Nom.		dBA	49.0		
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10~46		
	Heating	Ambient	Min.~Max.	°CWB	-15~18		
Refrigerant	Type				R-32		
	GWP				675	675.0	
	Charge			kg/TCO2Eq	0.95/0.65		1.15/0.780
Piping connections	Liquid	OD		mm	6.35		
	Gas	OD		mm	9.52	12.7	
	Piping length	OU - IU	Max.	m	20	30	
		System	Chargeless	m	10		
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 10m)		
	Level difference	IU - OU	Max.	m	15	20.0	
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240		
Current - 50Hz	Maximum fuse amps (MFA)			A	13		16

Contains fluorinated greenhouse gases

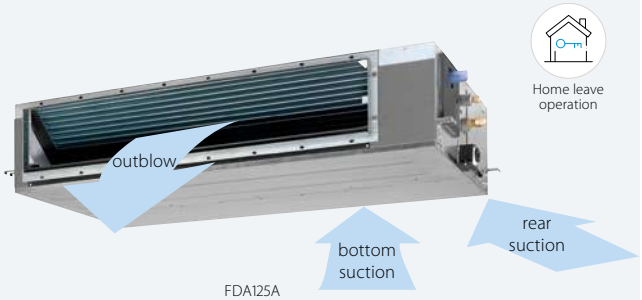
SkyAir Alpha-series

SkyAir Advance-series BLUEVOLUTION

Concealed ceiling unit with high ESP

ESP up to 200 Pa, ideal for large sized spaces

- High external static pressure up to 200Pa facilitates extensive duct and grille network
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- Discretely concealed in the ceiling: only the suction and discharge grilles are visible
- Built-in drain pump (625mm) increases the flexibility and installation speed (standard for FDA125, optional for FDA200-250)
- Standard supplied suction filter simplifies installation



FDA125A



RZASG100-140MV(1)/MY(1)



BRC1H52W, BRP069A81

FDA-A | RZAG-NV1 | RZAG-NY1 | RZASG-MV1 | RZASG-MY1 | RZASG-MV | RZASG-MY

					Sky Air Alpha-series		Sky Air Advance-series	
Efficiency data					**FDA125A+RZAG125NV1**	**FDA125A+RZAG125NY1**	**FDA125A+RZASG125MV(1)**	**FDA125A+RZASG125MY(1)**
Cooling capacity	Nom.			kW	12.1			
Heating capacity	Nom.			kW	13.5			
Space cooling	Capacity		Pdesign	kW	12.1			
	SEER				6.59		5.03	
	ηs,c			%	261		198	
	Annual energy consumption			kWh/a	1,102		1,444	
Space heating (Average climate)	Capacity		Pdesign	kW	9.52		6.00	
	SCOP/A				4.35		3.58	
	ηs,h			%	171		140	
	Annual energy consumption			kWh/a	3,064		2,346	

Indoor unit					**FDA**	**125A**	**125A**	**125A**	**125A**
Dimensions	Unit	HeightxWidthxDepth		mm	300x1,400x700				
Weight	Unit			kg	45				
Required ceiling void >				mm	350				
Air filter	Type				Resin net				
Decoration panel	Model				BYBS125DJW1				
	Colour				White (10Y9/0.5)				
	Dimensions	HeightxWidthxDepth		mm	55x1,500x500				
	Weight			kg	6.5				
Fan	Air flow rate	Cooling	Low/High	m^3/min	28.0/39.0				
		Heating	Low/High	m^3/min	28.0/39.0				
	External static pressure	Nom./High		Pa	50/200				
Sound power level	Cooling			dBA	66				
Sound pressure level	Cooling	Low/High		dBA	33/40				
	Heating	Low/High		dBA	33/40				
Control systems	Infrared remote control				BRC4C65/BRC4C66				
	Wired remote control				BRC1H52W/S/K/BRC1E53A/BRC1E53B/BRC1E53C/BRC1D52				
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220				
Piping connections	Drain				VP25 (I.D. 25/O.D. 32)				

Outdoor unit					**RZAG125NV1**	**RZAG125NY1**	**RZASG125MV(1)**	**RZASG125MY(1)**
Dimensions	Unit	HeightxWidthxDepth		mm	870x1,100x460		990x940x320	
Weight	Unit			kg	95	94	70 (MV1/MY1)/72 (MV/MY)	
Sound power level	Cooling			dBA	69		71	
	Heating			dBA	68		-	
Sound pressure level	Cooling	Nom.		dBA	49		54	
	Heating	Nom.		dBA	52		58	
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-20~52		-15~46	
	Heating	Ambient	Min.~Max.	°CWB	-20~18		-15~15.5	
Refrigerant	Type/GWP				R-32/675		R-32/675	
	Charge			kg/TCO2Eq	3.70/2.50		2.60/1.76	
Piping connections	Liquid/Gas	OD		mm	9.52/15.9		9.52/15.9	
	Piping length	OU - IU	Max.	m	85		50	
		System	Equivalent	m	100		70	
			Chargeless	m	40		30	
	Level difference	IU - OU	Max.	m	30		30.0	
	Additional refrigerant charge			kg/m	See installation manual		See installation manual	
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240	3~/50/380-415	1~/50/220-240	3~/50/380-415
Current - 50Hz	Maximum fuse amps (MFA)			A	32	16	32	16

Contains fluorinated greenhouse gases

Concealed ceiling unit with high ESP

ESP up to 250 Pa, ideal for large sized spaces

- High external static pressure up to 250Pa facilitates extensive duct and grille network
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- Discretely concealed in the ceiling: only the suction and discharge grilles are visible
- Optional drain pump
- Standard supplied suction filter simplifies installation
- Up to 26.4kW in heating mode



FDA-A RZA-D

Efficiency data				FDA + RZA	200A + 200D	250A + 250D
Cooling capacity	Min./Nom./Max.			kW	-/19.0/-	-/22.0/-
Heating capacity	Min./Nom./Max.			kW	-/22.4/-	-/24.0/-
Space cooling	Capacity		Pdesign	kW	19.0	22.0
	SEER				6.26	5.38
	ηs,c			%	247	212
	Annual energy consumption			kWh/a	1,821	2,455
Space heating (Average climate)	Capacity		Pdesign	kW	11.2	12.1
	SCOP/A				3.59	3.55
	ηs,h			%	141	139
	Annual energy consumption			kWh/a	4,368	4,765

Indoor unit				FDA	200A	250A
Dimensions	Unit	HeightxWidthxDepth		mm	470x1,490x1,100	
Weight	Unit			kg	104	115
Air filter	Type				Resinnet	
Fan	Air flow rate	Cooling	Low/Medium/High	m^3/min	36.0/50/64.0	43.0/56/69.0
		Heating	Low/Medium/High	m^3/min	36.0/50.0/64.0	43.0/56.0/69.0
	External static pressure	Nom./High		Pa	62/250	
Sound power level	Cooling			dBA	69.0	71.0
Sound pressure level	Cooling	Low/Medium/High		dBA	36.0/39.0/43.0	37.0/40.0/44.0
	Heating	Low/Medium/High		dBA	36.0/39.0/43.0	37.0/40.0/44.0
Control systems	Wired remote control				BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52	
Piping connections	Drain				BSP1	

Outdoor unit				RZA	200D	250D
Dimensions	Unit	HeightxWidthxDepth		mm	870x1,100x460	
Weight	Unit			kg	117	
Sound power level	Cooling			dBA	73	76
	Heating			dBA	76	79
Sound pressure level	Cooling	Nom.		dBA	53	57
	Heating	Nom.		dBA	60	63
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-20~46	
	Heating	Ambient	Min.~Max.	°CWB	-20~15	
Refrigerant	Type/GWP				R-32/675	
	Charge			kg/TCO2Eq	5/3.38	
Piping connections	Liquid/Gas OD			mm	9.52/22.2	
	Piping length	OU - IU	Max.	m	100	
		System	Chargeless	m	30	
	Additional refrigerant charge			kg/m	See installation manual	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/380-415	
Current - 50Hz	Maximum fuse amps (MFA)			A	20	

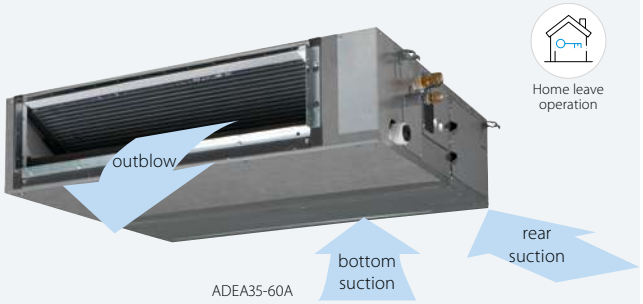
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SkyAir Active-series
BLUEVOLUTION

Concealed ceiling unit

Ideal for residential applications with false ceilings

- Combination with split outdoor units is ideal for small retail, offices or residential applications
- Slimmest unit in class, only 245mm (300mm built-in height) and therefore narrow ceiling voids are no longer a challenge
- Low operation sound level down to 25dBA
- Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- Discretely concealed in the ceiling: only the suction and discharge grilles are visible
- Multi zoning kit allows multiple individually-controlled climate zones to be served by one indoor unit




AZAS100-140MV_MY


BRC1E53A/B/C


BRP069C81

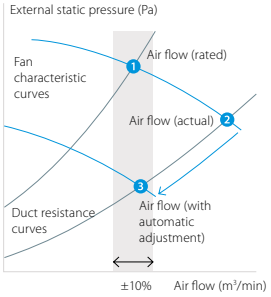
with multi zoning option

Automatic Airflow Adjustment function

Automatically selects the most appropriate fan curve to achieve the units' nominal air flow within ±10%

Why?

After installation the real ducting will frequently differ from the initially calculated air flow resistance ✳ the real air flow may be much lower or higher than nominal, leading to a lack of capacity or uncomfortable air temperature
Automatic Airflow Adjustment function will adapt the unit's fan speed to any ducting automatically (10 or more fan curves are available on every model), making installation much faster



ADEA-A ARXM-A AZAS-MV

Efficiency data				ADEA + ARXM/AZAS	71A + ARXM71A	100A + AZAS100MV	125A + AZAS125MV
Cooling capacity	Nom.			kW	6.80/6.98	9.50	12.10
Heating capacity	Nom.			kW	7.50/7.66	10.80	13.50
Space cooling	Energy efficiency class				A+++	A+++	-
	Capacity		Pdesign	kW	6.80	9.50	12.10
	SEER				5.35	5.13	4.73
	ηs,c			%	445	-	186
	Annual energy consumption			kWh/a	A+++	648	1,534
Space heating (Average climate)	Energy efficiency class				6.00	A+++	-
	Capacity		Pdesign	kW	3.80	6.00	
	SCOP/A				2,209	3.81	3.50
	ηs,h			%		-	137
	Annual energy consumption			kWh/a		2,206	2,399

Indoor unit				ADEA	71A	100A	125A
Dimensions	Unit	HeightxWidthxDepth		mm	245x1,000x800	245x1,400x800	
Weight	Unit			kg	35.0	46.0	
Air filter	Type				Resin net		
Fan	Air flow rate	Cooling	Low/Medium/High	m³/min	12.5/15.0/18.0	23.0/26.0/29.0	23.5/29.0/34.0
		Heating	Low/Medium/High	m³/min	12.5/15.0/18.0	23.0/26.0/29.0	23.5/29.0/34.0
	External static pressure	Nom./High		Pa	30/150	40/150	50/150
Sound power level	Cooling			dBA	56	58	62
Sound pressure level	Cooling	Low/Medium/High		dBA	25/28/30	30/32/34	32/35/37
	Heating	Low/Medium/High		dBA	25/28/31	30/33/36	32/35/38
Control systems	Infrared remote control				BRC4C65 / BRC4C66		
	Wired remote control				BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240/220		

Outdoor unit				ARXM/AZAS	NEW ARXM71A	NEW AZAS100MV	NEW AZAS125MV
Dimensions	Unit	HeightxWidthxDepth		mm	734x954x401	990x940x320	
Weight	Unit			kg	49.0	72	
Sound power level	Cooling			dBA	-	70	71
	Heating			dBA	-	-	71
Sound pressure level	Cooling	Nom.		dBA	52.0	53	
	Heating	Nom.		dBA	52.0	57	
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10 ~46		
	Heating	Ambient	Min.~Max.	°CWB	-15~18	-15 ~15.5	
Refrigerant	Type/GWP				R-32/675		
	Charge			kg/TCO2Eq	1.15/0.780	2.60/1.76	
Piping connections	Liquid/Gas OD			mm	9.52/15.9		
	Piping length	OU - IU	Max.	m	30		
		System	Equivalent	m	-	50	
			Chargeless	m	-	30	
	Additional refrigerant charge			kg/m	0.035 (for piping length exceeding 10m)	See installation manual	
	Level difference	IU - OU	Max.	m	20.0	30.0	
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240		
Current - 50Hz	Maximum fuse amps (MFA)			A	16	25	32

Contains fluorinated greenhouse gases

Wall mounted unit

For rooms with no false ceilings nor free floor space

- Combination with Sky Air Alpha-series ensures best in class quality, highest efficiency and performance
- Flat, stylish front panel blends easily within any interior décor and is easier to clean
- Can easily be installed in both new and refurbishment projects
- The air is comfortably spread up- and downwards thanks to 5 different discharge angles that can be programmed via the remote control
- Maintenance operations can be performed easily from the front of the unit
- Flexible to install as the largest casing only weighs 17kg and piping connection can be done at the bottom, left or right of the unit



FAA-B RZAG-NV1 RZAG-NY1

Efficiency data				FAA + RZAG	71B + 71NV1	100B + 100NV1	71B + 71NY1	100B + 100NY1
Cooling capacity	Nom.			kW	6.80	9.50	6.80	9.50
Heating capacity	Nom.			kW	7.50	10.80	7.50	10.80
Space cooling	Energy efficiency class							
	Capacity	Pdesign		kW	6.80	9.50	6.80	9.50
	SEER				6.58	6.42	6.58	6.42
	Annual energy consumption			kWh/a	362	518	362	518
Space heating (Average climate)	Energy efficiency class							
	Capacity	Pdesign		kW	4.70	7.80	4.70	7.80
	SCOP/A				4.20	4.01	4.20	4.01
	Annual energy consumption			kWh/a	1,567	2,725	1,567	2,725

Indoor unit				FAA	71B	100B	71B	100B
Dimensions	Unit	HeightxWidthxDepth		mm	290x1,050x269	340x1,200x262	290x1,050x269	340x1,200x262
Weight	Unit			kg	14.0	18	14.0	18
Fan	Air flow rate	Cooling	Low/Medium/High	m^3/min	12.1/13.4/16.2	18.7/21.1/23.0	12.1/13.4/16.2	18.7/21.1/23.0
		Heating	Low/Medium/High	m^3/min	12.7/14.2/16.9	18.7/20.9/23.0	12.7/14.2/16.9	18.7/20.9/23.0
Sound power level	Cooling			dBA	61.0	65.0	61.0	65.0
	Heating			dBA	61.0	65.0	61.0	65.0
Sound pressure level	Cooling	Low/Medium/High		dBA	40.0/42.0/45.0	41.0/45.0/49.0	40.0/42.0/45.0	41.0/45.0/49.0
	Heating	Low/Medium/High		dBA	40.0/42.0/45.0	41.0/45.0/49.0	40.0/42.0/45.0	41.0/45.0/49.0
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240			

Outdoor unit				RZAG	71NV1	100NV1	71NY1	100NY1
Dimensions	Unit	HeightxWidthxDepth		mm	870x1,100x460			
Weight	Unit			kg	81	85	81	85
Sound power level	Cooling			dBA	64	66	64	66
Sound pressure level	Cooling	Nom.		dBA	46	47	46	47
	Heating	Nom.		dBA	48	50	48	50
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-20 ~52			
	Heating	Ambient	Min.~Max.	°CWB	-20 ~18			
Refrigerant	Type/GWP				R-32/675			
	Charge			kg/TCO2Eq	3.20/2.16			
Piping connections	Liquid/Gas	OD		mm	9.52/15.9			
	Piping length	OU - IU	Max.	m	55	85	55	85
		System	Equivalent	m	75	100	75	100
			Chargeless	m	40			
	Additional refrigerant charge			kg/m	See installation manual			
	Level difference	IU - OU	Max.	m	30			
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240		3~/50/380-415	
Current - 50Hz	Maximum fuse amps (MFA)			A	20	32	16	

Contains fluorinated greenhouse gases

SkyAir Advance-series
BLUEVOLUTION

Wall mounted unit

For rooms with no false ceilings nor free floor space

- Combination with Sky Air Advance-series ensures good value for money for all types of commercial applications
- Flat, stylish front panel blends easily within any interior décor and is easier to clean
- Can easily be installed in both new and refurbishment projects
- The air is comfortably spread up- and downwards thanks to 5 different discharge angles that can be programmed via the remote control
- Maintenance operations can be performed easily from the front of the unit
- Flexible to install as the largest casing only weighs 17kg and piping connection can be done at the bottom, left or right of the unit



FAA-B | RZASG-MV1 | RZASG-MY1 | RZASG-MV | RZASG-MY

Efficiency data				FAA + RZASG	71B + 71MV1	100B + 100MV(1)	100B + 100MY(1)
Cooling capacity	Nom.			kW	6.80	9.50	
Heating capacity	Nom.			kW	7.50	10.8	
Space cooling	Energy efficiency class				A	A	
	Capacity		Pdesign	kW	6.80	9.50	
	SEER				6.41	5.83	
	ηs,c			%		-	
	Annual energy consumption			kWh/a	371	570	
Space heating (Average climate)	Energy efficiency class					A	
	Capacity		Pdesign	kW	4.50	6.00	
	SCOP/A				3.90	3.85	
	ηs,h			%		-	
	Annual energy consumption			kWh/a	1,615	2,182	

Indoor unit				FAA	71B	100B	100B
Dimensions	Unit	HeightxWidthxDepth		mm	290x1,050x269	340x1,200x262	
Weight	Unit			kg	14.0	18	
Fan	Air flow rate	Cooling	Low/Medium/High	m^3/min	12.1/13.4/16.2	18.7/21.1/23.0	
		Heating	Low/Medium/High	m^3/min	12.7/14.2/16.9	18.7/20.9/23.0	
Sound power level	Cooling			dBA	61.0	65.0	
	Heating			dBA	61.0	65.0	
Sound pressure level	Cooling	Low/Medium/High		dBA	40.0/42.0/45.0	41.0/45.0/49.0	
	Heating	Low/Medium/High		dBA	40.0/42.0/45.0	41.0/45.0/49.0	
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240		

Outdoor unit				RZASG	71MV1	100MV(1)	100MY(1)
Dimensions	Unit	HeightxWidthxDepth		mm	770x900x320	990x940x320	
Weight	Unit			kg	60	70 (MV1/MY1)/72 (MV/MY)	
Sound power level	Cooling			dBA	65	70	
Sound pressure level	Cooling	Nom.		dBA	46	53	
	Heating	Nom.		dBA	47	57	
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-15~46		
	Heating	Ambient	Min.~Max.	°CWB	-15~15.5		
Refrigerant	Type/GWP				R-32/675		
	Charge			kg/TCO2Eq	2.45/1.65	2.60/1.76	
Piping connections	Liquid/ Gas	OD		mm	9.52/15.9		
	Piping length	OU - IU	Max.	m	50		
		System	Equivalent	m	70		
			Chargeless	m	30		
	Additional refrigerant charge			kg/m	See installation manual		
	Level difference	IU - OU	Max.	m	30.0		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240		3~/50/380-415
Current - 50Hz	Maximum fuse amps (MFA)			A	20	25	16

Contains fluorinated greenhouse gases

Wall mounted unit

SkyAir Active-series
BLUEVOLUTION

For rooms with no false ceilings nor free floor space

- Ideal solution for small businesses and shops
- Flat, stylish front panel blends easily within any interior décor and is easier to clean
- Can easily be installed in both new and refurbishment projects
- The air is comfortably spread up- and downwards thanks to 5 different discharge angles that can be programmed via the remote control
- Maintenance operations can be performed easily from the front of the unit
- Flexible to install as the largest casing only weighs 17kg and piping connection can be done at the bottom, left or right of the unit



FAA71B

AZAS100-140MV_MY

BRC1H52W, BRP069C81

FAA-B ARXM-A AZAS-MV AZAS-MY

Efficiency data					FAA + ARXM/AZAS	71B + ARXM71A	100B + AZAS100MV	100B + AZAS100MY
Cooling capacity	Nom./Max.			kW		6.80/6.95	9.50 /-	
Heating capacity	Nom./Max.			kW		7.50/7.59	10.8 /-	
Space cooling	Energy efficiency class					A+++	A+++	
	Capacity		Pdesign	kW		6.80	9.50	
	SEER					5.77	5.25	
	Annual energy consumption			kWh/a		412	633	
Space heating (Average climate)	Energy efficiency class					A+		
	Capacity		Pdesign	kW		4.50	6.00	
	SCOP/A					3.81	3.81	
	Annual energy consumption			kWh/a		1,652	2,205	

Indoor unit					FAA	71B	100B	100B
Dimensions	Unit	HeightxWidthxDepth		mm		290x1,050x269	340x1,200x262	
Weight	Unit			kg		14.0	18	
Fan	Air flow rate	Cooling	Low/Medium/High	m^3/min		12.1/13.4/16.2	18.7/21.1/23.0	
		Heating	Low/Medium/High	m^3/min		12.7/14.2/16.9	18.7/20.9/23.0	
Sound power level	Cooling			dBA		61.0	65.0	
	Heating			dBA		61.0	65.0	
Sound pressure level	Cooling	Low/Medium/High		dBA		40.0/42.0/45.0	41.0/45.0/49.0	
	Heating	Low/Medium/High		dBA		40.0/42.0/45.0	41.0/45.0/49.0	
Power supply	Phase/Frequency/Voltage			Hz/V		1~/50/220-240	1~/50/220-240	

						NEW	NEW	NEW
Outdoor unit					**ARXM/AZAS**	**ARXM71A**	**AZAS100MV**	**AZAS100MY**
Dimensions	Unit	HeightxWidthxDepth		mm		734x954x401	990x940x320	
Weight	Unit			kg		49.0	72	
Sound power level	Cooling			dBA		-	70	
Sound pressure level	Cooling	Nom.		dBA		52.0	53	
	Heating	Nom.		dBA		52.0	57	
Operation range	Cooling	Ambient	Min.~Max.	°CDB		-10~46		
	Heating	Ambient	Min.~Max.	°CWB		-15~18	-15~15.5	
Refrigerant	Type/GWP					R-32/675		
	Charge			kg/TCO2Eq		1.15/0.780	2.60/1.76	
Piping connections	Liquid/ Gas	OD		mm		9.52/15.9		
	Piping length	OU - IU	Max.	m		30		
		System	Equivalent	m		-	50	
			Chargeless	m		-	30	
	Additional refrigerant charge			kg/m		0.035 (for piping length exceeding 10m)	See installation manual	
	Level difference	IU - OU	Max.	m		20.0	30.0	
Power supply	Phase/Frequency/Voltage			Hz/V		1~/50/220-240		3~/50/380-415
Current - 50Hz	Maximum fuse amps (MFA)			A		16	25	16

Contains fluorinated greenhouse gases

NEW FTXM-A + RZAG-B

perfera

SkyAir Alpha-series BLUEVOLUTION

Wall mounted unit

Attractive, wall mounted design with perfect indoor air quality

- Combination with Sky Air Alpha-series ensures best in class quality, highest efficiency and performance
- Seasonal efficiency values up to A+++ in cooling and heating
- NEW Comfort+: perfect comfort with homogeneous temperature throughout the room. The double flaps direct the air towards the ceiling in cooling and along the wall in heating
- Practically inaudible: the unit runs so quietly, you will almost forget it is there
- Cleaner air thanks to Daikin's Flash Streamer technology: you can breathe deep with no worries about impure air
- 2-area motion detection sensor: air flow is sent to a zone other than where the person is located at that moment; if no people are detected, the unit will automatically switch over to the energy-efficient setting. (larger capacity area)
- NEW Heat boost quickly heats up your home when starting up your air conditioner. Set temperature is reached 14% faster than a regular air conditioner (pair only)
- Onecta app: control your indoor from any location with an app, via your local network or internet
- 3-D air flow combines vertical and horizontal auto swing to circulate a stream of warm or cool air right to the corners of even large spaces



FTXM-A RZAG-B

Efficiency data				FTXM + RZAG	35A + 35B	50A + 50B	60A + 60B
Cooling capacity	Min./Nom./Max.			kW	1.6/3.5/5.0	1.7/5.0/6.0	1.7/6.0/6.8
Heating capacity	Min./Nom./Max.			kW	1.40/4.00/5.30	1.50/6.00/6.50	1.60/7.00/7.50
Space cooling	Energy efficiency class					A+++	
	Capacity		Pdesign	kW	3.50	5.00	6.00
	SEER				7.70	7.41	6.90
	Annual energy consumption			kWh/a	159	236	304
Space heating (Average climate)	Energy efficiency class				A+		A+
	Capacity		Pdesign	kW	2.60	4.50	4.60
	SCOP/A				4.60		4.35
	Annual energy consumption			kWh/a	792	1,369	1,480

Indoor unit				FTXM	35A	50A	60A
Dimensions	Unit	HeightxWidthxDepth		mm	298x804x252		298x997x292
Weight	Unit			kg	11.5		14.5
Air filter	Type				Removable/washable		
Fan	Air flow rate	Cooling	Silent operation/ Low/Medium/High	m^3/min	4.6/7.1/9.4/13.2	5.9/7.8/10.4/12.7	8.6/11.2/13.4/15.6
		Heating	Silent operation/ Low/Medium/High	m^3/min	5.1/6.9/9.4/11.1	6.9/8.6/11.5/14.5	10.5/11.8/14.6/15.9
Sound power level	Cooling			dBA	58.0	60.0	
	Heating			dBA	53.0	60.0	59.0
Sound pressure level	Cooling	Silent operation/Low/ Medium/High		dBA	19.0/29.0/37.0/45.0	27.0/33.0/40.0/46.0	30.0/37.0/42.0/46.0
	Heating	Silent operation/Low/ Medium/High		dBA	20.0/28.0/35.0/39.0	31.0/34.0/41.0/46.0	33.0/36.0/41.0/45.0
Control systems	Infrared remote control				ARC466A86		
	Wired remote control				BRC073A1		

Outdoor unit				RZAG	35B	50B	60B
Dimensions	Unit	HeightxWidthxDepth		mm	734x870x373		
Weight	Unit			kg	52		
Sound power level	Cooling			dBA	62.0	63.0	64.0
	Heating			dBA	62.0	63.0	64.0
Sound pressure level	Cooling	Nom.		dBA	48.0	49.0	50.0
	Heating	Nom.		dBA	48.0	49.0	50.0
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-20~52		
	Heating	Ambient	Min.~Max.	°CWB	-20~24		
Refrigerant	Type/GWP				R-32/675.0		
	Charge			kg/TCO2Eq	1.55/1.05		
Piping connections		OD		mm	6.35/9.52	6.35/12.7	
	Piping length	OU - IU	Max.	m	50		
		System	Chargeless	m	30		
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 30m)		
	Level difference	IU - OU	Max.	m	30.0		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240		

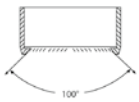
Contains fluorinated greenhouse gases

SkyAir Alpha-series BLUEVOLUTION

Ceiling suspended unit

For wide rooms with no false ceilings nor free floor space

- Combining with Sky Air Advance-series ensures good value for money for all types of commercial applications
- Ideal for comfortable air flow in wide rooms thanks to Coanda effect: up to 100° discharge angle



- Even rooms with ceilings up to 3.8m can be heated up or cooled down very easily without capacity loss
- Can easily be installed in both new and refurbishment projects
- Can easily be mounted in corners and narrow spaces, as it only needs 30mm lateral service space



- Reduced energy consumption thanks to specially developed DC fan motor
- 5 different fan speeds available for maximum comfort



FHA60-71A9



RZAG35-60B



BRC1H52W, BRP069A81

FHA-A(9) RZAG-B RZAG-NV1 RZAG-NY1

Efficiency data				FHA + RZAG	35A9+35B	50A9+50B	60A9+60B	71A9+71NV1	100A+100NV1	125A+125NV1	140A+140NV1	71A9+71NY1	100A+100NY1	125A+125NY1	140A+140NY1
Cooling capacity	Min./Nom./Max.			kW	1.70/3.50/4.50	1.70/5.00/6.00	1.90/6.00/6.80	-/6.80/-	-/9.50/-	-/12.1/-	-/13.4/-	-/6.80/-	-/9.50/-	-/12.1/-	-/13.4/-
Heating capacity	Min./Nom./Max.			kW	1.40/4.00/5.50	1.70/5.80/6.50	1.70/7.00/7.50	-/7.50/-	-/10.8/-	-/13.5/-	-/15.5/-	-/7.50/-	-/10.8/-	-/13.5/-	-/15.5/-
Space cooling	Energy efficiency class									-				-	
	Capacity		Pdesign	kW	3.50	5.00	6.00	6.80	9.50	12.1	13.4	6.80	9.50	12.1	13.4
	SEER				6.40	6.80	6.60	7.11	6.42	7.14	6.42	7.11	6.42	7.14	6.42
	ηs,c			%			-			283	254		-	283	254
	Annual energy consumption			kWh/a	191	257	318	335	518	1,017	1,253	335	518	1,017	1,253
Space heating (Average climate)	Energy efficiency class									-				-	
	Capacity		Pdesign	kW	3.10	4.00	4.60	4.70	7.80	9.52		4.70	7.80	9.52	
	SCOP/A				4.10	4.30	4.20	4.32	4.61	4.20	4.30	4.32	4.61	4.20	4.30
	ηs,h			%			-			165	169		-	165	169
	Annual energy consumption			kWh/a	1,058	1,302	1,633	1,523	2,369	3,174	3,100	1,523	2,369	3,174	3,100

Indoor unit				FHA	35A9	50A9	60A9	71A9	100A	125A	140A	71A9	100A	125A	140A
Dimensions	Unit	HeightxWidthxDepth		mm	235x960x690		235x1,270x690		235x1,590x690			235x1,270x690	235x1,590x690		
Weight	Unit			kg	26	27	32	34	41			34	41		
Air filter	Type				Resinnet										
Fan	Air flow rate	Cooling	Low/Medium/High	m^3/min	10.0/11.5/14.0	10.0/12.0/15.0	11.5/15.0/19.5	14.0/17.0/20.5	20.0/24.0/28.0	23.0/27.0/31.0	24.0/29.0/34.0	14.0/17.0/20.5	20.0/24.0/28.0	23.0/27.0/31.0	24.0/29.0/34.0
		Heating	Low/Medium/High	m^3/min	10.0/11.5/14.0	10.0/12.0/15.0	11.5/15.0/19.5	14.0/17.0/20.5	20.0/24.0/28.0	23.0/27.0/31.0	24.0/29.0/34.0	14.0/17.0/20.5	20.0/24.0/28.0	23.0/27.0/31.0	24.0/29.0/34.0
Sound power level	Cooling			dBA	53.0	54.0		55.0	60.0	62.0	64.0	55.0	60.0	62.0	64.0
	Heating			dBA	53.0	54.0		55.0	60.0	62.0	64.0	55.0	60.0	62.0	64.0
Sound pressure level	Cooling	Low/High		dBA	31.0/36.0	32.0/37.0	33.0/37.0	34.0/38.0	34.0/42.0	37.0/44.0	38.0/46.0	34.0/38.0	34.0/42.0	37.0/44.0	38.0/46.0
	Heating	Nom./High		dBA	34.0/36.0	35.0/37.0		36.0/38.0	38.0/42.0	41.0/44.0	42.0/46.0	36.0/38.0	38.0/42.0	41.0/44.0	42.0/46.0
Control systems	Infrared remote control				BRC7GA53-9 / BRC7GA56										
	Wired remote control				BRC1D528 / BRC1H51(9)W/S/K7 / BRC1H52W/S/K / BRC1H81W7 / BRC1H81S7 / BRC1E53A/B/C7 / BRC1H82W/S/K										
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220										
Piping connections	Drain				VP20										

Outdoor unit				RZAG	35B	50B	60B	71NV1	100NV1	125NV1	140NV1	71NY1	100NY1	125NY1	140NY1
Dimensions	Unit	HeightxWidthxDepth		mm	734x870x373			870x1,100x460							
Weight	Unit			kg	52			81	85	95		81	85	94	
Sound power level	Cooling			dBA	62.0	63.0	64.0	64	66	69	70	64	66	69	70
	Heating			dBA	62.0	63.0	64.0	-		68	71	-		68	71
Sound pressure level	Cooling	Nom.		dBA	48.0	49.0	50.0	46	47	49	50	46	47	49	50
	Heating	Nom.		dBA	48.0	49.0	50.0	48	50	52		48	50	52	
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-20 ~ 52			-20 ~52							
	Heating	Ambient	Min.~Max.	°CWB	-20 ~ 24			-20 ~18							
Refrigerant	Type/GWP				R-32/675.0			R-32/675							
	Charge			kg/TCO2Eq	1.55/1.05			3.20/2.16		3.70/2.50		3.20/2.16		3.70/2.50	
Piping connections	Liquid/Gas	OD		mm	6.35/9.50	6.35/12.7		10/15.9							
	Piping length	OU - IU	Max.	m	50			55	85			55	85		
		System	Equivalent	m	-			75	100			75	100		
			Chargeless	m	30			40							
	Level difference	IU - OU	Max.	m	30.0			30							
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 30m)			See installation manual							
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240							3~/50/380-415			
Current - 50Hz	Maximum fuse amps (MFA)			A	-			20	32			16			

Contains fluorinated greenhouse gases

Ceiling suspended unit

For wide rooms with no false ceilings nor free floor space

- Combination with Sky Air Advance-series ensures good value for money for all types of commercial applications
- Ideal for comfortable air flow in wide rooms thanks to Coanda effect: up to 100° discharge angle
- Even rooms with ceilings up to 3.8m can be heated up or cooled down very easily without capacity loss
- Can easily be installed in both new and refurbishment projects
- Can easily be mounted in corners and narrow spaces, as it only needs 30mm lateral service space
- 5 different fan speeds available for maximum comfort
- Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible



Home leave operation

Vertical auto swing

FHA60-71A9



RZASG100-140MV(1)/MY(1)



BRC1H52W, BRP069A81

FHA-A(9) RZASG-MV1 RZASG-MY1 RZASG-MV RZASG-MY

Efficiency data				FHA + RZASG	71A9 + 71MV1	100A + 100MV(1)	125A + 125MV(1)	140A + 140MV(1)	100A + 100MY(1)	125A + 125MY(1)	140A + 140MY(1)
Cooling capacity	Nom.			kW	6.80	9.50	12.1	13.4	9.50	12.1	13.4
Heating capacity	Nom.			kW	7.50	10.8	13.5	15.5	10.8	13.5	15.5
Space cooling	Energy efficiency class					A	-		A	-	
	Capacity		Pdesign	kW	6.80	9.50	12.1	13.4	9.50	12.1	13.4
	SEER				5.95	5.83		5.88	5.83		5.88
	ηs,c			%	-		230	232	-	230	232
	Annual energy consumption			kWh/a	400	570	1,246	1,368	570	1,246	1,368
Space heating (Average climate)	Energy efficiency class					A	-		A	-	
	Capacity		Pdesign	kW	4.50	6.00		7.80	6.00		7.80
	SCOP/A				3.90	3.91	3.83	3.81	3.91	3.83	3.81
	ηs,h			%	-		150	149	-	150	149
	Annual energy consumption			kWh/a	1,616	2,148	2,193	2,866	2,148	2,193	2,866

Indoor unit				FHA	71A9	100A	125A	140A	100A	125A	140A
Dimensions	Unit	HeightxWidthxDepth		mm	235x1,270x690	235x1,590x690					
Weight	Unit			kg	34	41					
Air filter	Type				Resin net						
Fan	Air flow rate	Cooling	Low/Medium/High	m^3/min	14.0/17.0/20.5	20.0/24.0/28.0	23.0/27.0/31.0	24.0/29.0/34.0	20.0/24.0/28.0	23.0/27.0/31.0	24.0/29.0/34.0
		Heating	Low/Medium/High	m^3/min	14.0/17.0/20.5	20.0/24.0/28.0	23.0/27.0/31.0	24.0/29.0/34.0	20.0/24.0/28.0	23.0/27.0/31.0	24.0/29.0/34.0
Sound power level	Cooling			dBA	55.0	60.0	62.0	64.0	60.0	62.0	64.0
	Heating			dBA	55.0	60.0	62.0	64.0	60.0	62.0	64.0
Sound pressure level	Cooling	Low/High		dBA	34.0/38.0	34.0/42.0	37.0/44.0	38.0/46.0	34.0/42.0	37.0/44.0	38.0/46.0
	Heating	Nom./High		dBA	36.0/38.0	38.0/42.0	41.0/44.0	42.0/46.0	38.0/42.0	41.0/44.0	42.0/46.0
Control systems	Infrared remote control				BRC7GA53-9 / BRC7GA56						
	Wired remote control				BRC1H52W/S/K; BRC1E53A; BRC1E53B; BRC1E53C; BRC1D52						
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220						
Piping connections	Drain				VP20						

Outdoor unit				RZASG	71MV1	100MV(1)	125MV(1)	140MV(1)	100MY(1)	125MY(1)	140MY(1)
Dimensions	Unit	HeightxWidthxDepth		mm	770x900x320	990x940x320					
Weight	Unit			kg	60	70 (MY1)/72 (MY)		78 (MV1)/79 (MV)	70 (MY1)/72 (MY)		78 (MV1)/79 (MV)
Sound power level	Cooling			dBA	65	70	71	73	70	71	73
	Heating			dBA	-		71	73	-	71	73
Sound pressure level	Cooling	Nom.		dBA	46	53		54	53		54
	Heating	Nom.		dBA	47	57					
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-15~46						
	Heating	Ambient	Min.~Max.	°CWB	-15~15.5						
Refrigerant	Type/GWP				R-32/675						
	Charge			kg/TCO2Eq	2.45/1.65	2.60/1.76		2.90/1.96	2.60/1.76		2.90/1.96
Piping connections	Liquid/ Gas	OD		mm	9.52/15.9						
	Piping length	OU - IU	Max.	m	50						
		System	Equivalent	m	70						
			Chargeless	m	30						
	Level difference	IU - OU	Max.	m	30.0						
	Additional refrigerant charge			kg/m	See installation manual						
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240				3~/50/380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	20	25	32		16		

Contains fluorinated greenhouse gases

SkyAir Active-series BLUEVOLUTION

Ceiling suspended unit

For wide rooms with no false ceilings nor free floor space

- Ideal solution for small businesses and shops
- Ideal for comfortable air flow in wide rooms thanks to Coanda effect: up to 100° discharge angle
- Even rooms with ceilings up to 3.8m can be heated up or cooled down very easily without capacity loss
- Can easily be installed in both new and refurbishment projects
- Can easily be mounted in corners and narrow spaces, as it only needs 30mm lateral service space
- 5 different fan speeds available for maximum comfort
- Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible



Home leave operation

Vertical auto swing

FHA60-71A9



AZAS-MV/MY



BRC1H52W, BRP069A81

FHA-A(9) ARXM-A AZAS-MV AZAS-MY

Efficiency data				FHA + AZAS	71A+ARXM71A	100A + 100MV	125A + 125MV	140A + 140MV	100A + 100MY	125A + 125MY	140A + 140MY
Cooling capacity	Nom.			kW	6.8	9.50	12.1	13.4	9.50	12.1	13.4
Heating capacity	Nom.			kW	7.5	10.8	13.5	15.5	10.8	13.5	15.5
Space cooling	Energy efficiency class				A+++	A+++	-		A+++	-	
	Capacity		Pdesign	kW	6.8	9.50	12.1	13.4	9.50	12.1	13.4
	SEER				5.87	5.6					
	ηs,c			%	-	221			-	221	
	Annual energy consumption			kWh/a	406	594	1,297	1,436	594	1,297	1,436
Space heating (Average climate)	Energy efficiency class				A+	-			A+	-	
	Capacity		Pdesign	kW	4.5	6.00		7.80	6.00		7.80
	SCOP/A				3.8	3.87	3.75	3.81	3.87	3.75	3.81
	ηs,h			%	-	147		149	-	147	149
	Annual energy consumption			kWh/a	1,659	2,171	2,240	2,866	2,171	2,240	2,866

Indoor unit				FHA	71A	100A	125A	140A	100A	125A	140A
Dimensions	Unit	HeightxWidthxDepth		mm	235x1,270x690	235x1,590x690					
Weight	Unit			kg	34	41					
Air filter	Type				Resin net						
Fan	Air flow rate	Cooling	Low/Medium/High	m^3/min	14.0/17.0/20.5	20.0/24.0/28.0	23.0/27.0/31.0	24.0/29.0/34.0	20.0/24.0/28.0	23.0/27.0/31.0	24.0/29.0/34.0
		Heating	Low/Medium/High	m^3/min	14.0/17.0/20.5	20.0/24.0/28.0	23.0/27.0/31.0	24.0/29.0/34.0	20.0/24.0/28.0	23.0/27.0/31.0	24.0/29.0/34.0
Sound power level	Cooling			dBA	55.0	60.0	62.0	64.0	60.0	62.0	64.0
	Heating			dBA	55.0	60.0	62.0	64.0	60.0	62.0	64.0
Sound pressure level	Cooling	Low/High		dBA	34.0/38.0	34.0/42.0	37.0/44.0	38.0/46.0	34.0/42.0	37.0/44.0	38.0/46.0
	Heating	Nom./High		dBA	36.0/38.0	38.0/42.0	41.0/44.0	42.0/46.0	38.0/42.0	41.0/44.0	42.0/46.0
Control systems	Infrared remote control				BRC7GA53-9 / BRC7GA56						
	Wired remote control				RC1H52W/S/K; BRC1E53A; BRC1E53B; BRC1E53C; BRC1D52						
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220						
Piping connections	Drain				VP20						

Outdoor Unit					NEW ARXM71A	NEW AZAS100MV	NEW AZAS125MV	NEW AZAS140MV	NEW AZAS100MY	NEW AZAS125MY	NEW AZAS140MY
Dimensions	Unit	HeightxWidthxDepth		mm	734x954x401	990x940x320					
Weight	Unit			kg	49.0	72		79	72		79
Sound power level	Cooling			dBA	-	70	71	72	70	71	72
	Heating			dBA	-	70	71	72	70	71	72
Sound pressure level	Cooling	Nom.		dBA	52.0	53	54	55	53	54	55
	Heating	Nom.		dBA	52.0	57	58	59	57	58	59
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10~46						
	Heating	Ambient	Min.~Max.	°CWB	-15~18	-15~15.5					
Refrigerant	Type/GWP				R-32/675						
	Charge			kg/TCO2Eq	1.15/0.780	2.60/1.76		2.90/1.96	2.60/1.76		2.90/1.96
Piping connections	Liquid/Gas OD			mm	9.52/15.9						
	Piping length	OU - IU	Max.	m	30						
		System	Equivalent	m	-	50					
			Chargeless	m	-	30					
	Additional refrigerant charge			kg/m	0.035 (for piping length exceeding 10m)	See installation manual					
	Level difference	IU - OU	Max.	m	20.0	30.0					
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240				3~/50/380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	16	25	32		16		

Contains fluorinated greenhouse gases

Ceiling suspended unit

For wide rooms with no false ceilings nor free floor space

- Combination with split outdoor units is ideal for small retail, offices and residential applications
- Ideal for comfortable air flow in wide rooms thanks to Coanda effect: up to 100° discharge angle
- Even rooms with ceilings up to 3.8m can be heated up or cooled down very easily without capacity loss
- Can easily be installed in both new and refurbishment projects
- Can easily be mounted in corners and narrow spaces, as it only needs 30mm lateral service space
- 5 different fan speeds available for maximum comfort
- Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible



FHA100-140A9

RXM35A9

BRC1H52W BRP069C81

FHA-A(9) RXM-A RXM-A8 RXM-A9

Efficiency data				**FHA + RXM**	**35A9 + 35A9**	**50A9 + 50A8**	**60A9 + 60A**
Cooling capacity	Nom.			kW	3.40	5.00	5.70
Heating capacity	Nom.			kW	4.00	6.00	7.20
Space cooling	Energy efficiency class				A+++	A+++	
	Capacity		Pdesign	kW	3.40	5.00	5.70
	SEER				6.31	5.84	6.08
	Annual energy consumption			kWh/a	189	300	328
Space heating (Average climate)	Energy efficiency class				A+++	A	
	Capacity		Pdesign	kW	3.10	4.35	4.71
	SCOP/A				4.48	3.82	3.87
	Annual energy consumption			kWh/a	968	1,594	1,704

Indoor unit				**FHA**	**35A9**	**50A9**	**60A9**
Dimensions	Unit	HeightxWidthxDepth		mm	235x960x690	235x960x690	235x1,270x690
Weight	Unit			kg	26	27	32
Air filter	Type				Resin net	Resin net	
Fan	Air flow rate	Cooling	Low/Medium/High	m^3/min	10.0/11.5/14.0	10.0/12.0/15.0	11.5/15.0/19.5
		Heating	Low/Medium/High	m^3/min	10.0/11.5/14.0	10.0/12.0/15.0	11.5/15.0/19.5
Sound power level	Cooling			dBA	53.0	54.0	
	Heating			dBA	53.0	54.0	
Sound pressure level	Cooling	Low/Medium/High		dBA	31.0/34.0/36.0	32.0/35.0/37.0	33.0/35.0/37.0
	Heating	Medium/Nom./High		dBA	31.0/34.0/36.0	32.0/35.0/37.0	33.0/35.0/37.0
Control systems	Infrared remote control				BRC7GA53-9 / BRC7GA56		
	Wired remote control				BRC1H52W/S/K / BRC1E53A/B/C / BRC1D52		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220		

					NEW	NEW	NEW
Outdoor unit				**RXM**	**35A9**	**50A8**	**60A**
Dimensions	Unit	HeightxWidthxDepth		mm	610x923x367		734x954x401
Weight	Unit			kg	36	40	49.0
Sound pressure level	Cooling	Nom.		dBA	47.0	48.0	
	Heating	Nom.		dBA	49.0		
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10~46		
	Heating	Ambient	Min.~Max.	°CWB	-15~18		
Refrigerant	Type				R-32		
	GWP				675	675.0	
	Charge			kg/TCO2Eq	0.95/0.65		1.15/0.780
Piping connections	Liquid	OD		mm	6.35		
	Gas	OD		mm	9.52	12.7	
	Piping length	OU - IU	Max.	m	20	30	
		System	Chargeless	m	10		
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 10m)		
	Level difference	IU - OU	Max.	m	15	20.0	
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240		
Current - 50Hz	Maximum fuse amps (MFA)			A	13		16

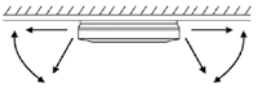
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SkyAir Alpha-series BLUEVOLUTION

4-way blow ceiling suspended unit

Unique Daikin unit for high rooms with no false ceilings nor free floor space

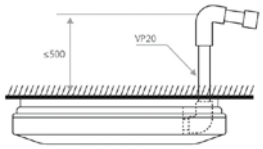
- Combining with Sky Air Advance-series ensures good value for money for all types of commercial applications
- Even rooms with ceilings up to 3.5m can be heated up or cooled down very easily without capacity loss
- Can easily be installed in both new and refurbishment projects
- Unified indoor unit range for R-32 and R-410A
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- 5 different discharge angles between 0 and 60° can be programmed via the remote control



- Stylish modern casing finished in pure white (RAL9010) and iron grey (RAL7011) blends easily with any interior
- Optimum comfort guaranteed with automatic air flow adjustment to the required load



- Standard drain pump with 720mm lift increases flexibility and installation speed



FUA-A RZAG-NV1 RZAG-NY1

Efficiency data				FUA + RZAG	71A + 71NV1	100A + 100NV1	125A + 125NV1	71A + 71NY1	100A + 100NY1	125A + 125NY1
Cooling capacity	Nom.			kW	6.80	9.50	12.1	6.80	9.50	12.1
Heating capacity	Nom.			kW	7.50	10.8	13.5	7.50	10.8	13.5
Space cooling	Energy efficiency class				A		-	A		-
	Capacity		Pdesign	kW	6.80	9.50	12.1	6.80	9.50	12.1
	SEER				7.02	6.42	6.39	7.02	6.42	6.39
	ηs,c			%	-		253	-		253
	Annual energy consumption			kWh/a	339	518	1,136	339	518	1,136
Space heating (Average climate)	Energy efficiency class				A		-	A		-
	Capacity		Pdesign	kW	4.70	7.80	9.52	4.70	7.80	9.52
	SCOP/A				4.20	4.50	4.26	4.20	4.50	4.26
	ηs,h			%	-		167	-		167
	Annual energy consumption			kWh/a	1,567	2,427	3,129	1,567	2,427	3,129

Indoor unit				FUA	71A	100A	125A	71A	100A	125A
Dimensions	Unit	HeightxWidthxDepth		mm	198x950x950					
Weight	Unit			kg	25.0	26.0		25.0	26.0	
Air filter	Type				Resinnet					
Fan	Air flow rate	Cooling	Low/Medium/High	m^3/min	16.0/19.5/23.0	20.0/25.5/31.0	20.5/26.5/32.5	16.0/19.5/23.0	20.0/25.5/31.0	20.5/26.5/32.5
		Heating	Low/Medium/High	m^3/min	16.0/19.5/23.0	20.0/25.5/31.0	20.5/26.5/32.5	16.0/19.5/23.0	20.0/25.5/31.0	20.5/26.5/32.5
Sound power level	Cooling			dBA	59	64	65	59	64	65
Sound pressure level	Cooling	Low/High		dBA	35/41	39/46	40/47	35/41	39/46	40/47
	Heating	Low/High		dBA	35/41	39/46	40/47	35/41	39/46	40/47
Control systems	Wired remote control				BRC1H52W/S/K / BRC1E53A/B/C / BRC1D52					
Piping connections	Drain				VP25 (OD Ø32.0)					

Outdoor unit				RZAG	71NV1	100NV1	125NV1	71NY1	100NY1	125NY1
Dimensions	Unit	HeightxWidthxDepth		mm	870x1,100x460					
Weight	Unit			kg	81	85	95	81	85	94
Sound power level	Cooling			dBA	64	66	69	64	66	69
	Heating			dBA	-		68	-		68
Sound pressure level	Cooling	Nom.		dBA	46	47	49	46	47	49
	Heating	Nom.		dBA	48	50	52	48	50	52
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-20 ~52					
	Heating	Ambient	Min.~Max.	°CWB	-20 ~18					
Refrigerant	Type/GWP				R-32/675					
	Charge			kg/TCO2Eq	3.20/2.16		3.70/2.50	3.20/2.16		3.70/2.50
Piping connections	Liquid/Gas	OD		mm	9.52/15.9					
	Piping length	OU - IU	Max.	m	55	85		55	85	
		System	Equivalent	m	75	100		75	100	
			Chargeless	m	40					
	Level difference	IU - OU	Max.	m	30					
	Additional refrigerant charge			kg/m	See installation manual					
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240			3~/50/380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	20	32		16		

Contains fluorinated greenhouse gases

SkyAir Advance-series
BLUEVOLUTION

4-way blow ceiling suspended unit

Unique Daikin unit for high rooms with no false ceilings nor free floor space

- Combination with Sky Air Advance-series ensures good value for money for all types of commercial applications
- Even rooms with ceilings up to 3.5m can be heated up or cooled down very easily without capacity loss
- Can easily be installed in both new and refurbishment projects
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- 5 different discharge angles between 0 and 60° can be programmed via the remote control
- Stylish modern casing finished in pure white (RAL9010) and iron grey (RAL7011) blends easily with any interior
- Optimum comfort guaranteed with automatic air flow adjustment to the required load
- Standard drain pump with 720mm lift increases flexibility and installation speed



FUA-A

Home leave operation

Draught prevention

Individual flap control

Vertical auto swing



RZASG100-140MV(1)/MY(1)



BRC1H52W, BRP069A81

FUA-A | RZASG-MV1 | RZASG-MY1 | RZASG-MV | RZASG-MY

Efficiency data				**FUA + RZASG**	**71A + 71MV1**	**100A + 100MV(1)**	**125A + 125MV(1)**	**100A + 100MY(1)**	**125A + 125MY(1)**
Cooling capacity	Nom.			kW	6.80	9.50	12.1	9.50	12.1
Heating capacity	Nom.			kW	7.50	10.8	13.5	10.8	13.5
Space cooling	Energy efficiency class				A	A	-	A	-
	Capacity		Pdesign	kW	6.80	9.50	12.1	9.50	12.1
	SEER				6.16	5.83	5.49	5.83	5.49
	ηs,c			%	-	-	217	-	217
	Annual energy consumption			kWh/a	386	570	1,322	570	1,322
Space heating (Average climate)	Energy efficiency class				A	A	-	A	-
	Capacity		Pdesign	kW	4.50	6.00			
	SCOP/A				3.90	4.01	3.84	4.01	3.84
	ηs,h			%	-	-	151	-	151
	Annual energy consumption			kWh/a	1,615	2,095	2,188	2,095	2,188

Indoor unit				**FUA**	**71A**	**100A**	**125A**	**100A**	**125A**
Dimensions	Unit	HeightxWidthxDepth		mm	198x950x950				
Weight	Unit			kg	25.0	26.0			
Air filter	Type				Resinnet				
Fan	Air flow rate	Cooling	Low/Medium/High	m^3/min	16.0/19.5/23.0	20.0/25.5/31.0	20.5/26.5/32.5	20.0/25.5/31.0	20.5/26.5/32.5
		Heating	Low/Medium/High	m^3/min	16.0/19.5/23.0	20.0/25.5/31.0	20.5/26.5/32.5	20.0/25.5/31.0	20.5/26.5/32.5
Sound power level	Cooling			dBA	59	64	65	64	65
Sound pressure level	Cooling	Low/High		dBA	35/41	39/46	40/47	39/46	40/47
	Heating	Low/High		dBA	35/41	39/46	40/47	39/46	40/47
Control systems	Wired remote control				BRC1H52W/S/K; BRC1E53A; BRC1E53B; BRC1E53C; BRC1D52				
Piping connections	Drain				VP25 (OD Ø32.0)				

Outdoor unit				**RZASG**	**71MV1**	**100MV(1)**	**125MV(1)**	**100MY(1)**	**125MY(1)**
Dimensions	Unit	HeightxWidthxDepth		mm	770x900x320	990x940x320			
Weight	Unit			kg	60	70 (MV1/MY1)/72 (MV/MY)			
Sound power level	Cooling			dBA	65	69	71	69	71
	Heating			dBA	-	-			
Sound pressure level	Cooling	Nom.		dBA	46	53	54	53	54
	Heating	Nom.		dBA	47	57	58	57	58
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-15 ~46	-15~46	-15~46	-15~46	-15~46
	Heating	Ambient	Min.~Max.	°CWB	-15 ~15.5	-15~15.5	-15~15.5	-15~15.5	-15~15.5
Refrigerant	Type/GWP				R-32/675	R-32/675	R-32/675	R-32/675	R-32/675
	Charge			kg/TCO2Eq	2.45/1.65	2.60/1.76			
Piping connections	Liquid/ Gas	OD		mm	9.52/15.9	9.52/15.9			
	Piping length	OU - IU	Max.	m	50	50			
		System	Equivalent	m	70	70			
			Chargeless	m	30	30			
	Level difference	IU - OU	Max.	m	30.0	30.0			
	Additional refrigerant charge			kg/m	See installation manual	See installation manual			
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240	1~/50/220-240		3~/50/380-415	
Current - 50Hz	Maximum fuse amps (MFA)			A	20	25	32	16	

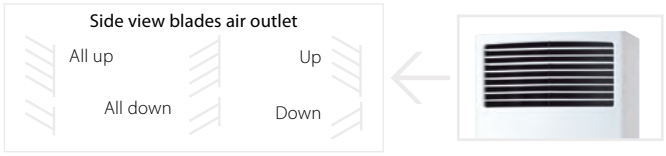
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SkyAir Alpha-series BLUEVOLUTION

Floor standing unit

For commercial spaces with high ceilings

- Combining with Sky Air Alpha-series ensures best in class quality, highest efficiency and performance
- Decrease of temperature variation by automatic fan speed selection or freely selectable 3-step fan speed.
- Improved comfort as a result of better airflow distribution from the vertical out blow which allows manual adjustment of air outlet blades at the top of the unit.
- Selectable horizontal out blow to better suit the layout of the room (via wired remote controller BRC1E*/BRC1H*)





FVA-A RZAG-NV1 RZAG-NY1

Efficiency data				FVA + RZAG	71A + 71NV1	100A + 100NV1	125A + 125NV1	140A + 140NV1	71A + 71NY1	100A + 100NY1	125A + 125NY1	140A + 140NY1
Cooling capacity	Nom.			kW	6.80	9.50	12.1	13.4	6.80	9.50	12.1	13.4
Heating capacity	Nom.			kW	7.50	10.8	13.5	15.5	7.50	10.8	13.5	15.5
Space cooling	Energy efficiency class				A		-		A		-	
	Capacity		Pdesign	kW	6.80	9.50	12.1	13.4	6.80	9.50	12.1	13.4
	SEER				6.34	6.40	6.41	6.12	6.34	6.40	6.41	6.12
	ηs,c			%	-		253	242	-		253	242
	Annual energy consumption			kWh/a	376	520	1,133	1,314	376	520	1,133	1,314
Space heating (Average climate)	Energy efficiency class				A		-		A		-	
	Capacity		Pdesign	kW	4.70	7.80	9.52		4.70	7.80	9.52	
	SCOP/A				4.05	4.20	4.15	3.94	4.05	4.20	4.15	3.94
	ηs,h			%	-		163	155	-		163	155
	Annual energy consumption			kWh/a	1,625	2,600	3,209	3,383	1,625	2,600	3,209	3,383

Indoor unit				FVA	71A	100A	125A	140A	71A	100A	125A	140A
Dimensions	Unit	HeightxWidthxDepth		mm	1,850x600x270	1,850x600x350			1,850x600x270	1,850x600x350		
Weight	Unit			kg	42	50			42	50		
Air filter	Type				Resin net							
Fan	Air flow rate	Cooling	Low/Medium/High	m^3/min	14/16/18	22/25/28	24/26/28	26/28/30	14/16/18	22/25/28	24/26/28	26/28/30
		Heating	Low/Medium/High	m^3/min	14/16/18	22/25/28	24/26/28	26/28/30	14/16/18	22/25/28	24/26/28	26/28/30
Sound power level	Cooling			dBA	55	62	63	65	55	62	63	65
Sound pressure level	Cooling	Low/High		dBA	38/43	44/50	46/51	48/53	38/43	44/50	46/51	48/53
	Heating	Nom./High		dBA	41/43	47/50	48/51	51/53	41/43	47/50	48/51	51/53
Control systems	Wired remote control				BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52							
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220							
Piping connections	Drain				I.D. 20/O.D. 26							

Outdoor unit				RZAG	71NV1	100NV1	125NV1	140NV1	71NY1	100NY1	125NY1	140NY1
Dimensions	Unit	HeightxWidthxDepth		mm	870x1,100x460							
Weight	Unit			kg	81	85	95		81	85	94	
Sound power level	Cooling			dBA	64	66	69	70	64	66	69	70
	Heating			dBA	-		68	71	-		68	71
Sound pressure level	Cooling	Nom.		dBA	46	47	49	50	46	47	49	50
	Heating	Nom.		dBA	48	50	52		48	50	52	
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-20 ~52							
	Heating	Ambient	Min.~Max.	°CWB	-20 ~18							
Refrigerant	Type/GWP				R-32/675							
	Charge			kg/TCO2Eq	3.20/2.16		3.70/2.50		3.20/2.16		3.70/2.50	
Piping connections	Liquid/Gas	OD		mm	9.52/15.9							
	Piping length	OU - IU	Max.	m	55	85			55	85		
		System	Equivalent	m	75	100			75	100		
			Chargeless	m	40							
	Level difference	IU - OU	Max.	m	30							
	Additional refrigerant charge			kg/m	See installation manual							
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240				3~/50/380-415			
Current - 50Hz	Maximum fuse amps (MFA)			A	20	32			16			

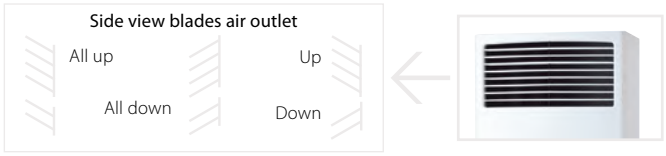
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SkyAir Advance-series
BLUEVOLUTION

Floor standing unit

For commercial spaces with high ceilings

- Combination with Sky Air Advance-series ensures good value for money for all types of commercial applications
- Decrease of temperature variation by automatic fan speed selection or freely selectable 3-step fan speed.
- Improved comfort as a result of better airflow distribution from the vertical out blow which allows manual adjustment of air outlet blades at the top of the unit.
- Selectable horizontal out blow to better suit the layout of the room (via wired remote controller BRC1E*/BRC1H*)





FVA-A | RZASG-MV1 | RZASG-MY1 | RZASG-MV | RZASG-MY

Efficiency data				FVA + RZASG	71A + 71MV1	100A + 100MV(1)	125A + 125MV(1)	140A + 140MV(1)	100A + 100MY(1)	125A + 125MY(1)	140A + 140MY(1)
Cooling capacity	Min./Nom./Max.			kW	6.80	9.50	12.1	13.4	9.50	12.1	13.4
Heating capacity	Min./Nom./Max.			kW	7.50	10.8	13.5	15.5	10.8	13.5	15.5
Space cooling	Energy efficiency class				A+++	A+++	-		A+++	-	
	Capacity		Pdesign	kW	6.80	9.50	12.1	13.4	9.50	12.1	13.4
	SEER				5.83	5.72	5.52	5.63	5.72	5.52	5.63
	ηs,c			%	-	-	218	222	-	218	222
	Annual energy consumption			kWh/a	408	581	1,314	1,428	581	1,314	1,428
Space heating (Average climate)	Energy efficiency class				A+	A	-		A	-	
	Capacity		Pdesign	kW	4.50	6.00		7.80	6.00		7.80
	SCOP/A				4.04	3.83	3.64	3.81	3.83	3.64	3.81
	ηs,h			%	-	-	143	149	-	143	149
	Annual energy consumption			kWh/a	1,559	2,193	2,308	2,866	2,193	2,308	2,866

Indoor unit				FVA	71A	100A	125A	140A	100A	125A	140A
Dimensions	Unit	HeightxWidthxDepth	mm		1,850x600x270	1,850x600x350					
Weight	Unit		kg		42	50					
Air filter	Type				Resinnet						
Fan	Air flow rate	Cooling	Low/Medium/High	m^3/min	14/16/18	22/25/28	24/26/28	26/28/30	22/25/28	24/26/28	26/28/30
		Heating	Low/Medium/High	m^3/min	14/16/18	22/25/28	24/26/28	26/28/30	22/25/28	24/26/28	26/28/30
Sound power level	Cooling			dBA	55	62	63	65	62	63	65
Sound pressure level	Cooling	Low/Medium/High		dBA	38/41/43	44/47/50	46/48/51	48/51/53	44/47/50	46/48/51	48/51/53
	Heating	Medium/Nom./High		dBA	38/41/43	44/47/50	46/48/51	48/51/53	44/47/50	46/48/51	48/51/53
Control systems	Wired remote control				BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52						
Power supply	Phase - Frequency - Voltage			Hz - V	1~ - 50/60 - 220-240/220						

Outdoor unit				RZASG	71MV1	100MV(1)	125MV(1)	140MV(1)	100MY(1)	125MY(1)	140MY(1)
Dimensions	Unit	HeightxWidthxDepth	mm		770x900x320	990x940x320					
Weight	Unit		kg		60	70 (MY1)/72 (MY)		78 (MV1)/79 (MV)	70 (MY1)/72 (MY)		78 (MV1)/79 (MV)
Sound power level	Cooling			dBA	65	70	71	73	70	71	73
	Heating			dBA	-		71	73	-	71	73
Sound pressure level	Cooling	Nom.		dBA	46	53		54	53		54
	Heating	Nom.		dBA	47	57					
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-15~46						
	Heating	Ambient	Min.~Max.	°CWB	-15~15.5						
Refrigerant	Type/GWP				R-32/675						
	Charge			kg/TCO2Eq	2.45/1.65	2.60/1.76		2.90/1.96	2.60/1.76		2.90/1.96
Piping connections	Liquid/Gas	OD		mm	9.52/15.9						
	Piping length	OU - IU	Max.	m	50						
		System	Equivalent	m	70						
			Chargeless	m	30						
	Additional refrigerant charge			kg/m	See installation manual						
	Level difference IU - OU		Max.	m	30.0						
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240				3~/50/380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	20	25	32		16		

Contains fluorinated greenhouse gases

NEW FVA-A + AZAS-MV/MY

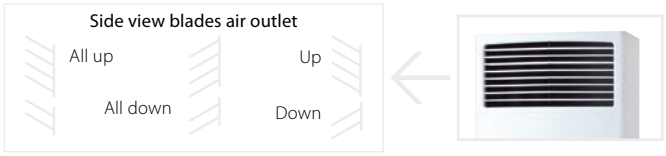
SkyAir Active-series BLUEVOLUTION

Floor standing unit

For commercial spaces with high ceilings

- Ideal solution for small businesses and shops
- Decrease of temperature variation by automatic fan speed selection or freely selectable 3-step fan speed.
- Improved comfort as a result of better airflow distribution from the vertical out blow which allows manual adjustment of air outlet blades at the top of the unit.
- Selectable horizontal out blow to better suit the layout of the room (via wired remote controller BRC1E*/BRC1H*)





FVA-A AZAS-MV AZAS-MY

Efficiency data				FVA + AZAS	100A + 100MV	125A + 125MV	140A + 140MV	100A + 100NY	125A + 125NY	140A + 140NY
Cooling capacity	Nom.			kW	9.50	12.1	13.4	9.50	12.1	13.4
Heating capacity	Nom.			kW	10.8	13.5	15.5	10.8	13.5	15.5
Space cooling	Energy efficiency class				A	-		A	-	
	Capacity		Pdesign	kW	9.50	12.1	13.4	9.50	12.1	13.4
	SEER				5.5	5.3	5.4	5.5	5.3	5.4
	ηs,c			%	-	209	213	-	209	213
	Annual energy consumption			kWh/a	605	1,370	1,489	605	1,370	1,489
Space heating (Average climate)	Energy efficiency class				A	-		A	-	
	Capacity		Pdesign	kW	6.00		7.80	6.00		7.80
	SCOP/A				3.79	3.56	3.81	3.79	3.56	3.81
	ηs,h			%	-	139	149	-	139	149
	Annual energy consumption			kWh/a	2,217	2,360	2,866	2,217	2,360	2,866

Indoor unit				FVA	100A	125A	140A	100A	125A	140A
Dimensions	Unit	HeightxWidthxDepth		mm	1,850x600x350			1,850x600x350		
Weight	Unit			kg	50			50		
Air filter	Type				Resin net					
Fan	Air flow rate	Cooling	Low/Medium/High	m^3/min	22/25/28	24/26/28	26/28/30	22/25/28	24/26/28	26/28/30
		Heating	Low/Medium/High	m^3/min	22/25/28	24/26/28	26/28/30	22/25/28	24/26/28	26/28/30
Sound power level	Cooling			dBA	62	63	65	62	63	65
Sound pressure level	Cooling	Low/High		dBA	44/50	46/51	48/53	44/50	46/51	48/53
	Heating	Nom./High		dBA	47/50	48/51	51/53	47/50	48/51	51/53
Control systems	Wired remote control				BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52					
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220					
Piping connections	Drain				I.D. 20/O.D. 26					

Outdoor Unit				AZAS	100MV	125MV	140MV	100MY	125MY	140MY
Dimensions	Unit	HeightxWidthxDepth		mm	990x940x320					
Weight	Unit			kg	72		79	72		79
Sound power level	Cooling			dBA	70	71	72	70	71	72
	Heating			dBA	70	71	72	70	71	72
Sound pressure level	Cooling	Nom.		dBA	53	54	55	53	54	55
	Heating	Nom.		dBA	57	58	59	57	58	59
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10~46					
	Heating	Ambient	Min.~Max.	°CWB	-15~15.5					
Refrigerant	Type/GWP				R-32/675					
	Charge			kg/TCO2Eq	2.60/1.76		2.90/1.96	2.60/1.76		2.90/1.96
Piping connections	Liquid/Gas	OD		mm	9.52/15.9					
	Piping length	OU - IU	Max.	m	30					
		System	Equivalent	m	50					
			Chargeless	m	30					
	Additional refrigerant charge			kg/m	See installation manual					
	Level difference	IU - OU	Max.	m	30.0					
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240			3~/50/380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	25	32		16		

Contains fluorinated greenhouse gases

SkyAir Alpha-series BLUEVOLUTION

Concealed floor standing unit

Designed to be concealed in walls

- Combination with Sky Air Alpha-series ensures best in class quality, highest efficiency and performance
- Discretely concealed in the wall: only the suction and discharge grilles are visible
- Requires very little installation space as the depth is only 200mm
- Its low height (620 mm) enables the unit to fit perfectly beneath a window
- High ESP allows flexible installation



FNA-A9

Home leave operation



RZAG35-60B



BRC1H52W BRP069C81

FNA-A9 RZAG-B

Efficiency data				FNA + RZAG	35A9 + 35B	50A9 + 50B	60A9 + 60B
Cooling capacity	Min./Nom./Max.			kW	1.6/3.5/4.5	1.7/5.0/6.0	1.7/6.0/6.5
Heating capacity	Min./Nom./Max.			kW	1.40/4.00/5.00	1.70/5.00/6.00	1.70/7.00/7.50
Space cooling	Energy efficiency class					A	
	Capacity		Pdesign	kW	3.50	5.00	6.00
	SEER				5.90		5.70
	Annual energy consumption			kWh/a	208	297	368
Space heating (Average climate)	Energy efficiency class					A	
	Capacity		Pdesign	kW	3.50	4.30	4.50
	SCOP/A					3.90	
	Annual energy consumption			kWh/a	1,255	1,542	1,616

Indoor unit				FNA	35A9	50A9	60A9
Dimensions	Unit	HeightxWidthxDepth		mm	620/720x790x200	620/720x1,190x200	
Weight	Unit			kg	23.0	30.0	
Air filter	Type				Resin net		
Fan	Air flow rate	Cooling	Low/High	m^3/min	7.3/8.7	13.5/16.0	
		Heating	Low/High	m^3/min	7.3/8.7	13.5/16.0	
	External static pressure	Nom./High		Pa	30/48	40/49	
Sound power level	Cooling			dBA	53.0	56.0	
Sound pressure level	Cooling	Low/Medium/High		dBA	28.0/31.0/33.0	30.0/33.0/36.0	
	Heating	Low/Nom./High		dBA	28.0/31.0/33.0	30.0/33.0/36.0	
Control systems	Infrared remote control				BRC4C65		
	Wired remote control				BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220		

Outdoor unit				RZAG	NEW 35B	NEW 50B	NEW 60B
Dimensions	Unit	HeightxWidthxDepth		mm	734x870x373		
Weight	Unit			kg	52		
Sound power level	Cooling			dBA	62.0	63.0	64.0
	Heating			dBA	62.0	63.0	64.0
Sound pressure level	Cooling	Nom.		dBA	48.0	49.0	50.0
	Heating	Nom.		dBA	48.0	49.0	50.0
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-20~52		
	Heating	Ambient	Min.~Max.	°CWB	-20~24		
Refrigerant	Type/GWP				R-32/675.0		
	Charge			kg/TCO2Eq	1.55/1.05		
Piping connections	Liquid/Gas OD			mm	6.35/9.52	6.35/12.7	
	Piping length	OU - IU	Max.	m	50		
		System	Chargeless	m	30		
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 30m)		
	Level difference	IU - OU	Max.	m	30.0		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240		

Contains fluorinated greenhouse gases

Concealed floor standing unit

Designed to be concealed in walls

- Combination with split outdoor units is ideal for small retail, offices and residential applications
- Discretely concealed in the wall: only the suction and discharge grilles are visible
- Requires very little installation space as the depth is only 200mm
- Its low height (620 mm) enables the unit to fit perfectly beneath a window
- High ESP allows flexible installation



FNA-A9

Home leave operation



RXM35A9



BRC1H52W BRP069C81

FNA-A9 RXM-A RXM-A8 RXM-A9

Efficiency data				FNA + RXM	25A9 + 25A9	35A9 + 35A9	50A9 + 50A8	60A9 + 60A
Cooling capacity	Nom.			kW	2.60	3.40	5.00	6.00
Heating capacity	Nom.			kW	3.20	4.00	5.80	7.00
Power input	Cooling	Nom.		kW	0.68	1.10	1.48	2.22
	Heating	Nom.		kW	0.80	1.15	1.74	2.25
Space cooling	Energy efficiency class							A
	Capacity	Pdesign		kW	2.60	3.40	5.00	6.00
	SEER				5.76	5.76	5.70	5.56
	Annual energy consumption			kWh/a	158	207	307	378
Space heating (Average climate)	Energy efficiency class							
	Capacity	Pdesign		kW	2.80	2.90	4.00	4.60
	SCOP/A				4.29	4.15	4.05	4.16
	Annual energy consumption			kWh/a	913	978	1,383	1,547

Indoor unit				FNA	25A9	35A9	50A9	60A9
Dimensions	Unit	HeightxWidthxDepth		mm	620/720x790x200		620/720x1,190x200	
Weight	Unit			kg	23.0		30.0	
Air filter	Type				Resinnet			
Fan	Air flow rate	Cooling	Low/High	m^3/min	7.3/8.7		13.5/16.0	
		Heating	Low/High	m^3/min	7.3/8.7		13.5/16.0	
	External static pressure	Nom./High		Pa	30/48		40/49	
Sound power level	Cooling			dBA	53.0		56.0	
Sound pressure level	Cooling	Low/Medium/High		dBA	28.0/31.0/33.0		30.0/33.0/36.0	
	Heating	Low/Nom./High		dBA	28.0/31.0/33.0		30.0/33.0/36.0	
Control systems	Infrared remote control				BRC4C65			
	Wired remote control				BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52			
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220			

					NEW	NEW	NEW	NEW
Outdoor unit				RXM	25A9	35A9	50A8	60A
Dimensions	Unit	HeightxWidthxDepth		mm	610x923x367			734x954x401
Weight	Unit			kg	36		40	49.0
Sound pressure level	Cooling	Nom.		dBA	46.0	47.0	48.0	
	Heating	Nom.		dBA	47.0	49.0		
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10~46			
	Heating	Ambient	Min.~Max.	°CWB	-15~18			
Refrigerant	Type				R-32			
	GWP				675		675.0	
	Charge			kg/TCO2Eq	0.95/0.65			1.15/0.780
Piping connections	Liquid	OD		mm	6.35			
	Gas	OD		mm	9.52		12.7	
	Piping length	OU - IU	Max.	m	20		30	
		System	Chargeless	m	10			
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 10m)			
	Level difference	IU - OU	Max.	m	15		20.0	
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240			
Current - 50Hz	Maximum fuse amps (MFA)			A	13			16

Contains fluorinated greenhouse gases

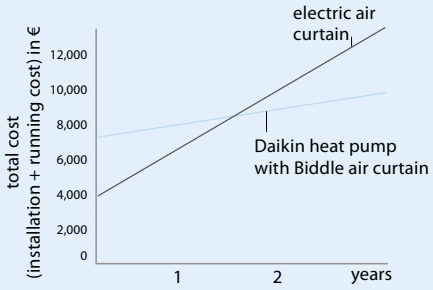


Biddle air curtains

Biddle air curtains provide highly efficient solutions for retailers and consultants to combat the issue of climate separation across their outlet or office doorway.

Benefits of Biddle air curtains

- Connectable to ERQ and VRV units
- Unified range for R-32 and R-410A refrigerant
- Payback period of less then 1.5 years compared to installing an electric air curtain



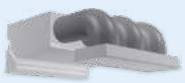
3 different models to choose from:



Free-hanging model (F):
easy wall mounted installation

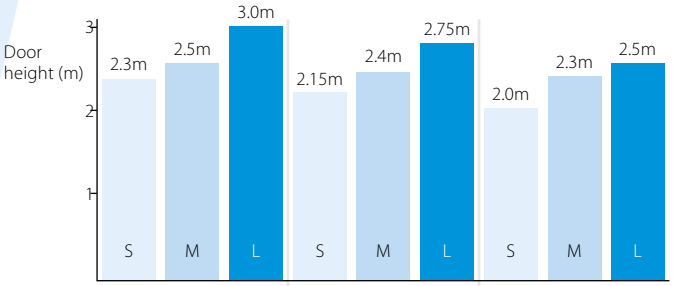


Cassette model (C):
mounted into a false ceiling leaving only the decoration panel visible



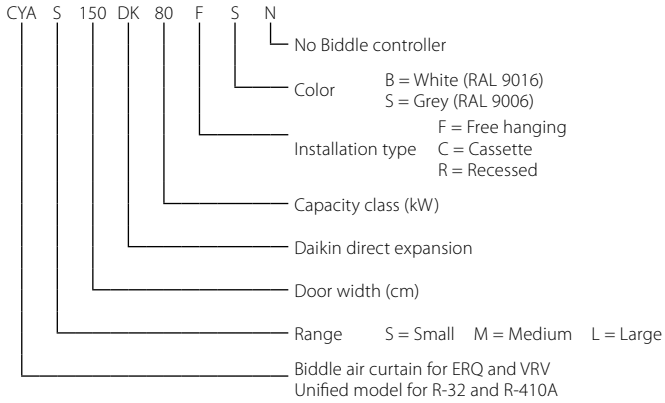
Recessed model (R):
neatly concealed in the ceiling

Select your Biddle air curtain range



Installation condition	Favourable	Normal	Unfavourable
	ex: covered shopping mall or revolving door entrance	ex: little direct wind, no opposite open doors, building with ground floor only	ex: location at a corner or square, multiple floors and / or open stairwell

Biddle air curtain nomenclature



New R-32 range

Biddle air curtain

- Connectable to ERQ and VRV DX outdoor units
- Unified model for R-32 and R-410A refrigerant
- Free-hanging model (F): easy wall mounted installation
- Cassette model (C): mounted into a false ceiling leaving only the decoration panel visible
- Recessed model (R): neatly concealed in the ceiling
- A payback period of less then 1.5 years compared to installing an electric air curtain
- Provides virtually free air curtain heating via recovered heat from indoor units in cooling mode (in case of VRV heat recovery)
- Easy and quick to install at reduced costs since no additional water systems, boilers and gas connections are required



CYA150DK80FSC



CYA150DK80CSC



CYA150DK80RSC

CYA

					Small				Medium			
					CYAS100DK80*	CYAS150DK80*	CYAS200DK100*	CYAS250DK140*	CYAM100DK80*	CYAM150DK80*	CYAM200DK100*	CYAM250DK140*
Heating capacity	Speed 3			kW	6.94	8.6	10.9	15.2	8.65	10.5	12.5	18.6
Power input	Fan only	Nom.		kW	0.14	0.21	0.28	0.36	0.27	0.40	0.53	0.67
	Heating	Nom.		kW	0.14	0.21	0.28	0.36	0.27	0.40	0.53	0.67
Delta T	Speed 3			K	17.7	14.6	13.9	15.5	16	12.9	12.7	13.8
Casing	Colour				B: RAL9016 / S: RAL9006				B: RAL9016 / S: RAL9006			
Dimensions	Unit	Height F/C/R		mm	270/270/270				270/270/270			
		Width F/C/R		mm	1,000/1,000/1,048	1,500/1,500/1,548	2,000/2,000/2,048	2,500/2,500/2,548	1,000/1,000/1,048	1,500/1,500/1,548	2,000/2,000/2,048	2,500/2,500/2,548
		Depth F/C/R		mm	590/821/561				590/821/561			
Required ceiling void >	mm			mm	420				420			
Door height	Max.			m	2.3				2.5			
Door width	Max.			m	1	1.5	2	2.5	1	1.5	2	2.5
Weight	Unit			kg	56/59/61	66/83/88	83/102/108	107/129/137	57/68/66	73/88/93	94/111/117	108/136/144
Fan		Speed 3		m^3/h	1,164	1,746	2,328	2,910	1,605	2,408	2,910	4,013
Sound pressure level	Heating	Speed 3		dBA	47	49	50	51	50	51	53	54
Refrigerant	GWP				675/2,087.5				675/2,087.5			
	Type				R32/R410A				R32/R410A			
Piping connections	Liquid	OD		mm	6.35		9.52		6.35		9.52	
	Gas	OD		mm	12.7		15.9		12.7		15.9	
Air filter	Type				Vacuum cleanable filter G1							
Power supply	Frequency			Hz	50Hz				50Hz			
	Voltage			V	230V				230V			
	Maximum fuse amps (MFA)			A	16				16			

					Large			
					CYAL100DK125*	CYAL150DK200*	CYAL200DK250*	CYAL250DK250*
Heating capacity	Speed 3			kW	14.4	21.5	27.6	29.7
Power input	Fan only	Nom.		kW	0.48	0.72	0.96	1.20
	Heating	Nom.		kW	0.48	0.72	0.96	1.20
Delta T	Speed 3			K	13.8	13.7	13.2	11.4
Casing	Colour				B: RAL9016 / S: RAL9006			
Dimensions	Unit	Height F/C/R		mm	370/370/370			
		Width F/C/R		mm	1,000/1,000/1,048	1,500/1,500/1,548	2,000/2,000/2,048	2,500/2,500/2,548
		Depth F/C/R		mm	774/1,105/745			
Required ceiling void >	mm			mm	520			
Door height	Max.			m	3			
Door width	Max.			m	1	1.5	2	2.5
Weight	Unit			kg	76/81/83	100/118/141	126/151/155	157/190/196
Fan		Speed 3		m^3/h	3,100	4,650	6,200	7,750
Sound pressure level	Heating	Speed 3		dBA	53	54	56	57
Refrigerant	GWP				675/2,087.5			
	Type				R32/R410A			
Piping connections	Liquid	OD		mm	9,522			
	Gas	OD		mm	15.9	19.1	19.1	
Air filter	Type				Vacuum cleanable filter G1			
Power supply	Frequency			Hz	50Hz			
	Voltage			V	230V			
Current	Maximum fuse amps (MFA)			A	16			



Sky Air Alpha-series - Low height unit



Low sound enclosure for Sky Air
Alpha-series (RZAG-N) and advance-series (RZA-D)

Outdoor units

A range of industry leading technology outdoor units

Products overview outdoor units 452

Benefits overview outdoor units 453

Sky Air A-series 454

Low sound enclosure 455

Variable Refrigerant Temperature 456

Replacement technology 457

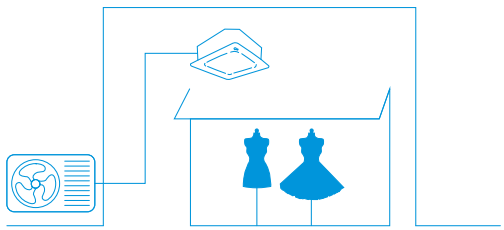
R-32 BLUEVOLUTION range 458

- RZAG-B Sky Air Alpha-series 458
- RZAG-NV1/NY1 Sky Air Alpha-series 458
- RZASG-MV(1)/MY(1) Sky Air Advance-series 459
- RZA-D Sky Air Advance-series 460
- ARXM-A/ NEW
  AZAS-MV/MY Sky Air Active-series 461

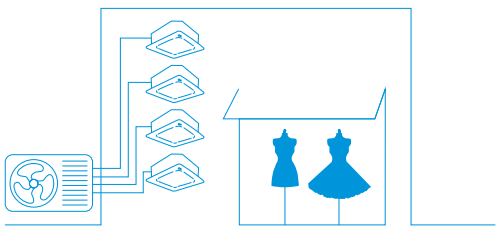
Multi model and VRV range

- See Split or VRV chapter

Pair solution



Twin, triple, double twin solution





Low height. High value.

Products overview outdoor units

Pair, twin, triple & double twin application

BLUEVOLUTION

R-32

SkyAir A-series

System	Type	Model		Product name	35	50	60	71	100	125	140	200	250
					3.5 kW	5.0 kW	6.0 kW	6.8 kW	9.5 kW	12.1 kW	13.4 kW	21.5 kW	23.6 kW
Air cooled	Heat pump	**SkyAir Alpha-series** ▪ Industry leading technology for commercial applications ▪ Dedicated solution for infrastructure cooling ▪ Variable Refrigerant Temperature (RZAG71-100-125-140 series) ▪ Maximum piping length up to 85m (50m for RZAG35-50-60) ▪ Replacement technology ▪ Extended operation range down to -20°C in both heating and cooling ▪ Pair, twin, triple and double twin application (RZAG71-100-125-140 series)	R-32 A+++ A	RZAG-B RZAG-NV1/NY1									
		SkyAir Advance-series ▪ Technology and comfort combined for commercial applications ▪ Very compact and easy to install outdoor units ▪ Maximum piping length up to 50m (RZA-D up to 100m) ▪ Replacement technology ▪ Operation range down to -15°C both cooling and in heating (RZA-D down to -20°C) ▪ Pair, twin, triple and double twin application	R-32 A+++ A	RZASG-MV(1)/MY(1)									
				RZA-D									
		SkyAir Active-series ▪ Ideal solution for busy environments and small shops ▪ Very compact and easy to install outdoor units ▪ Maximum piping length up to 30m ▪ Replacement technology ▪ Easy-to-mount outdoor units: roof, terrace or wall ▪ Exclusively offered for pair applications	R-32 A+++ A	ARXM-A AZAS-MV/MY				NEW	NEW	NEW	NEW		

Benefits overview outdoor units

			SkyAir Alpha-series		SkyAir Advance-series		SkyAir Active-series	
			NEW RZAG-B	RZAG-NV1/NY1	RZASG-MV(1)/MY(1)	RZA-D	AZAS-MV/MY	NEW ARXM-A
								
We care icons	Seasonal efficiency - Smart use of energy	Seasonal efficiency gives a more realistic indication on how efficient air conditioners operate over an entire heating or cooling season.	A+++	A+++	A+++	-	A+++	A+++
	Inverter technology	Inverter compressors continuously adjust compressor speed to actual demand. Fewer power-consuming starts and stops result in decreased energy consumption (up to 30%) and more stable temperatures.	•	•	•	•	•	•
	Replacement technology	Quick and quality system replacement in the most cost effective way	•	•	•	•	•	•
Comfort	Night quiet	Lowers the operation sound of the outdoor unit automatically.	•	•	•	•	•	•
	Auto cooling-heating changeover	Automatically selects cooling or heating mode to achieve the set temperature.	•	•	•	•	•	•
Other functions	Variable refrigeration temperature	The intelligent systems ensures highest energy savings with additional comfort to better suit application requirements.		•				
	Twin/triple/double twin application	2, 3 or 4 indoor units can be connected to only 1 outdoor unit. All indoor units operate within the same mode (cooling or heating) from one remote control.		•	•	•		
	Swing compressor	Outdoor units are fitted with a swing compressor, renowned for its low noise and high reliability	•	•	•	•	•	•
	Guaranteed operation down to -20°C	Daikin is suitable for all climates, even withstanding severe winter conditions with an operation range down to -20°C.	•	•		•		
	Infrastructure cooling	For high sensible, infrastructure cooling applications, dedicated infrastructure cooling settings and allowing asymmetric combinations enhance the system's reliability.	•	•				
	Low sound enclosure	Dedicated Daikin developed and tested low sound enclosure, reducing sound power by up to -10 dB(A)		○		○		

Technical benefit overview SkyAir A-series

	SkyAir Alpha-series		SkyAir Advance-series		SkyAir Active-series	
	NEW RZAG-B	RZAG-NV1/NY1	RZASG-MV(1)/MY(1)	RZA-D	AZAS-MV/MY	NEW ARXM-A
Compact single fan casing on the entire range	•	•	•	•	•	•
Maximum piping length	50 m	85 m	50 m	100 m	30 m	30 m
Pivoting front plate		•		•		
7 segment display		•	•	•	•	•
Increased factory charge	•	•				
Integrated leak check		•				
Refrigerant bottom plate pass		•				
Specially deveoloped R-32 swing compressor	•	•	•	•	•	•
Refrigerant cooled PCB		•	•	•	•	•
Intelligent Tablet controller - Onecta app	○	○	○	○	○	○

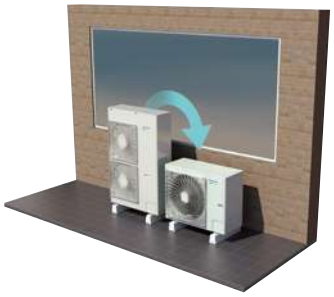
• standard, ○ optional

Sky Air Alpha-series

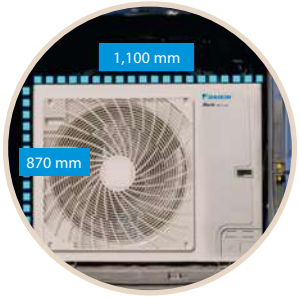
Low height.
High value.



Unique, low-height single fan range



Compact unit, easy to transport



Market-leading serviceability and handling



Fast and easy access to all critical component
- Single screw access
- Wider access area



Newly positioned handle for easier carrying



–10 dB(A)!

Low sound enclosure

EKLN140A

Benefits

☑ **Dedicated Daikin option for:**
- Sky Air Alpha-series
- Sky Air Advance-series
- VRV 5 S-series

☑ **Fully optimised and tested in Daikin factory**
- Guaranteed performance levels (sound, capacity, efficiency)

☑ **Outdoor unit sound reduction of up to -10 dB(A) on sound power levels**
- Enabling to meet local sound requirements
- Increased flexibility to apply outdoor units
- Reduces sound on the entire sound spectrum

☑ **Minimal capacity reduction**
- Separated air intake and discharge to prevent air flow short circuit
- No additional calculations needed thanks to factory tested data

☑ **Easy to integrate**
- Anthracite (RAL 7016), highly aesthetic finishing
- Mechanically designed to perfectly suit the Sky Air Alpha/ Advance and VRV 5 S-series casings
- Self-supporting; can be installed on any flat surface

☑ **Fast & easy installation & servicing**
- 100 % weather resistant
- Easy opening to access most system components

☑ **Durable**
- 3 years warranty on all components
- Made of stainless steel with robust double layer powder coating, ensuring maximum corrosion resistance

Tried and tested: values that you can rely on

Our low sound enclosure eliminates possible problems and reduces your workload significantly:
- **No incompatibilities** – tested combinations with the outdoor unit that you want to encase
- **No surprises** – measured and guaranteed sound reduction according to ISO 3744
- **No calculations** – tested performance values for capacity and efficiency



Sound power level measurement in acoustic chamber



Sound enclosure				EKLN140A
Casing	Colour			Anthracite (RAL 7016)
	Material			Sheet metal
Dimensions	Unit	Height	mm	1,100
		Width	mm	1,400
		Depth	mm	1,500
	Packed unit	Height	mm	1,017
		Width	mm	1,517
		Depth	mm	917
Weight	Unit		kg	152
	Packed unit		kg	186
Combines with	Sky Air Alpha-series			RZAG-NV1/NY1
	Sky Air Advance-series			RZA-D
	VRV 5 S-series			RXYSA-AV1/AY1



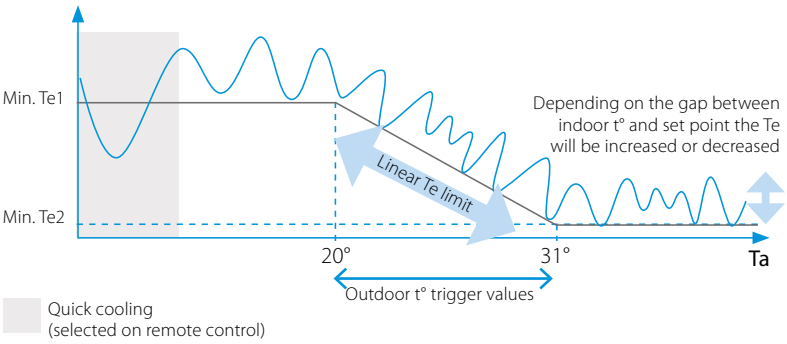
Variable Refrigerant Temperature

The ultimate customer experience

Variable Refrigerant Temperature

- ☑ Increases air discharge temperature and eliminates cold drafts!
- ☑ Increased customer comfort and reduced energy consumption!

- The system automatically increases its evaporating temperature (Te) when the gap between the actual indoor temperature (Tin) and the setpoint (Tset) is becoming smaller, increasing comfort and providing more stable operation

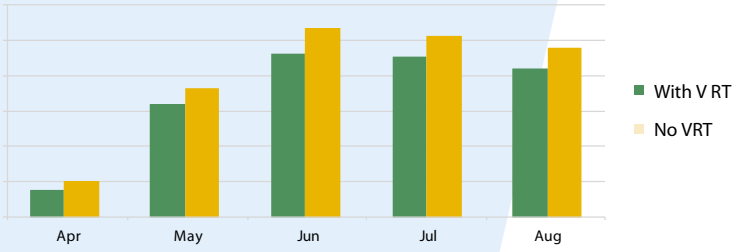


Case study: JBC, Vilvoorde

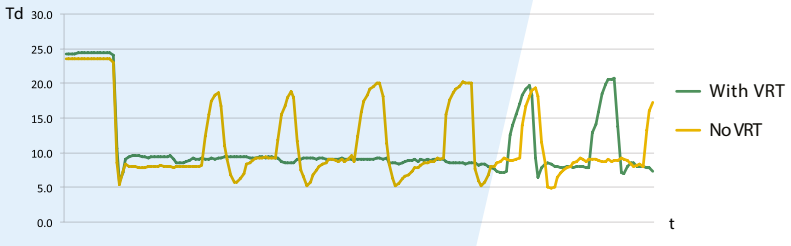
- ☑ Two pair systems are installed in the same zone allowing comparison

- ☑ More energy efficient: up to 20% lower energy consumption

  Average energy consumption over 5 months of operation



- ☑ Improved comfort: higher discharge temperatures
  - More stable and continuous operation
  - Average discharge temperature increased with 3~4°C





Replacement technology

The quick and quality way of upgrading R-22 and R-410A systems

Benefits to increase your profit
Optimise your business

Less installation time
Tackle more projects in less time thanks to faster installation. It is more profitable than replacing the full system with new piping.

Lower installation costs
Reducing installation costs enables you to offer customers the most cost-effective solution and improve your competitive edge.

Replace non-Daikin systems

NON DAIKIN → DAIKIN

It is a trouble-free replacement solution for Daikin systems and for systems made by other manufacturers.

Easy as one-two-three
A simple solution for replacement technology enables you to handle more projects for more customers in less time and offer them the best price! Everybody gains.

The benefits will convince your customer

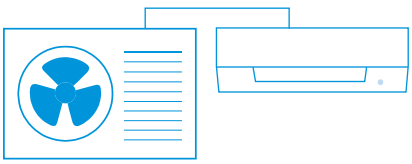
- To prevent unexpected breakdown
- To lower running costs
- To protect the environment
- To improve comfort

Your copper pipes will last for multiple generations
Copper pipes used in air conditioning systems tested by Daikin will last over 60 years after installation.

How does it work?

The Daikin low-cost upgrade solution

! **Replace indoor units**
Contact your local dealer to check compatibility in case you need to keep the indoor units.

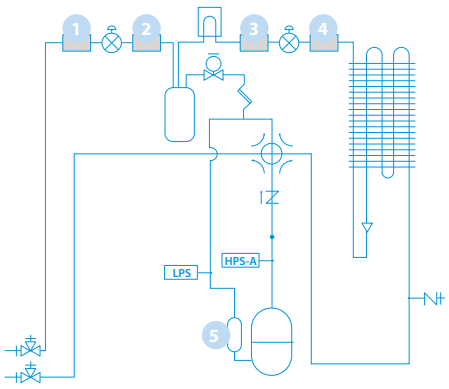


✓ **Replace outdoor units**

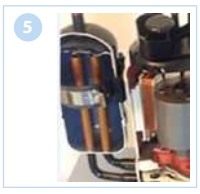
Learn more about Daikin replacement solutions at www.daikin.eu/en_us/knowledge-center/replacement-technology.html

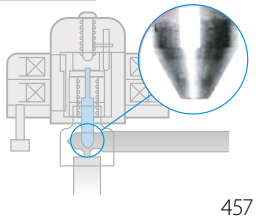
Unique technologies

- Cleaning free piping re-usage thanks to unique hepta filtering for maximum particle reduction









- New expansion valve needle material, with high corrosion resistance
- New type oil for maximum system protection

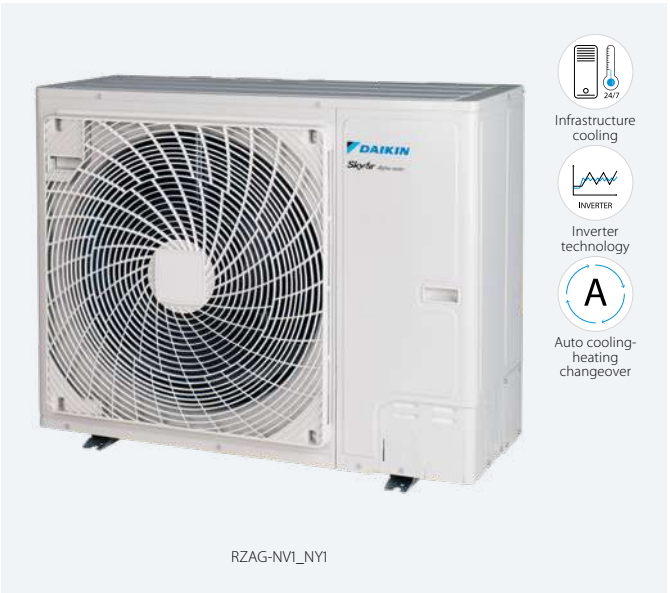
R-32

SkyAir Alpha-series BLUEVOLUTION

Sky Air Alpha-series

Industry leading technology for commercial applications and even for technical rooms

- Unique, low-height single fan range
- Compact dimensions allow almost unoticeable installation
- Market-leading serviceability and handling, thanks to wide access area, 7-segment display and additional handle
- The perfect balance in efficiency and comfort thanks to Variable Refrigerant Temperature: top seasonal efficiency throughout most of the year and quick reaction speed on the hottest days.
- Suits high sensible, infrastructure cooling applications
- Replace existing systems with R-32 technology without needing to replace the piping
- Guarantees operation in both heating and cooling mode down to -20°C
- Refrigerant cooled PCB guarantees reliable cooling, as it is not influenced by ambient temperature.
- Maximum piping length up to 85m (50m for RZAG-B)
- Outdoor units for pair, twin, triple, double twin application
- Combines with EKLN-A low sound enclosure



RZAG-NV1_NY1

Comfort cooling combination table

		FCAHG-H				FCAG-B							FFA-A9			FDA-A	FDXM-F9			FBA-A(9)					FHA-A(9)							FAA-B		FTXM-A (NEW)			FUA-A			FNA-A9			FVA-A			
capacity class		71	100	125	140	35	50	60	71	100	125	140	35	50	60	125	35	50	60	35	50	60	71	100	125	140	35	50	60	71	100	125	140	71	100	35	50	60	71	71	100	125	35	50	60	71	100	125	140
RZAG35B						P							P				P			P							P										P						P						
RZAG50B							P							P				P			P							P										P						P						
RZAG60B								P							P				P			P							P										P						P					
RZAG71NV1	RZAG71NY1	P				2			P				2				2			2			P				2			P				P					P				2			P			
RZAG100NV1	RZAG100NY1		P			3	2			P			3	2			3	2		3	2			P			3	2			P			P					P				3	2			P		
RZAG125NV1	RZAG125NY1			P		4	3	2			P		4	3	2	P	4	3	2	4	3	2			P		4	3	2			P								P			4	3	2			P	
RZAG140NV1	RZAG140NY1	2			P	4	3		2			P	4	3			4	3		4	3		2			P	4	3		2			P	2					2			4	3		2			P

P = pair application; 2/3/4 = twin/triple/double twin application

Infrastructure cooling combination table

		FTXM-A (NEW)				FAA-B				FHA-A(9)					FBA-A(9)							FDXM-F9			FUA-A			FNA-A9			FVA-A				FFA-A9			FCAHG-H				FCAG-B						
capacity class		35	50	60	71	71	100	35	50	60	71	100	125	140	35	50	60	71	100	125	140	35	50	60	71	100	125	35	50	60	71	100	125	140	35	50	60	71	100	125	140	35	50	60	71	100	125	140
RZAG35B			P						P							P							P						P							P							P					
RZAG50B				P						P							P							P						P							P							P				
RZAG60AB					P						P							P																				P							P				
RZAG71NV1	RZAG71NY1					P		3	2			P			3	2			P				3	2			P		3	2			P			3	2			P			3	2			P		
RZAG100NV1	RZAG100NY1				2			4	3		2			P	4	3		2			P	4	3		2			4	3			P	4	3		2			P	4	3		2			P
RZAG125NV1	RZAG125NY1				2			4	3		2			P	4	3		2			P	4	3		2			4	3			P	4	3		2			P	4	3		2			P
RZAG140NV1	RZAG140NY1				2			4	3		2			P	4	3		2			P	4	3		2			4	3			P	4	3		2			P	4	3		2			P

P = Pair, 2 = Twin, 3 = Triple, 4 = Double twin; For more information on infrastructure cooling options refer to infrastructure cooling catalogue.

RZAG-B RZAG-NV1 RZAG-NY1

Outdoor unit				RZAG	35B	50B	60B	71NV1	100NV1	125NV1	140NV1	71NY1	100NY1	125NY1	140NY1
Dimensions	Unit	HeightxWidthxDepth		mm	734x870x373			870x1,100x460							
Weight	Unit			kg	52			81	85	95		81	85	94	
Sound power level	Cooling			dBA	62.0	63.0	64.0	64	66	69	70	64	66	69	70
	Heating			dBA	62.0	63.0	64.0	-		68(1)	71(1)	-		68(1)	71(1)
Sound pressure level	Cooling	Nom.		dBA	48.0	49.0	50.0	46	47	49	50	46	47	49	50
	Heating	Nom.		dBA	48.0	49.0	50.0	48	50	52		48	50	52	
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-20~52			-20~52							
	Heating	Ambient	Min.~Max.	°CWB	-20~24			-20~18							
Refrigerant	Type/GWP				R-32/675.0			R-32/675							
	Charge			kg/TCO2Eq	1.55/1.05			3.20/2.16		3.70/2.50		3.20/2.16		3.70/2.50	
Piping connections	Liquid/Gas	OD		mm	6.35/9.52	6.35/12.7		9.52/15.9							
	Piping length	OU - IU	Max.	m	50			55	85			55	85		
		System	Equivalent	m	-			75	100			75	100		
			Chargeless	m	30			40							
	Level difference	IU - OU	Max.	m	30.0			30							
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 30m)			See installation manual							
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240							3~/50/380-415			
Current - 50Hz	Maximum fuse amps (MFA)			A	-			20	32			16			

(1)According to ENER Lot 21 | Contains fluorinated greenhouse gases

Sky Air Advance-series

R-32

SkyAir Advance-series
BLUEVOLUTION

Technology and comfort combined for commercial applications

- High efficiency:
  - Energy labels up to A++ (cooling) / A+ (heating)
  - Compressor offers substantial efficiency improvements
- Very compact and easy to install
- Replace existing systems with R-32 technology without needing to replace the piping
- Guarantees operation in both heating and cooling mode down to -15°C
- Refrigerant cooled PCB guarantees reliable cooling, as it is not influenced by ambient temperature.
- Maximum piping length up to 50m, minimum piping length has no limitation
- Outdoor units for pair, twin, triple, double twin application



RZASG100-140MV(1)/MY(1)



Inverter technology



Auto cooling-heating changeover

Pair, twin, triple and double twin application

		FCAG-B							FFA-A9			FDXM-F9			FBA-A(9)						
capacity class		35	50	60	71	100	125	140	35	50	60	35	50	60	35	50	60	71	100	125	140
RZASG71MV1		2			P				2			2			2			P			
RZASG100MV(1)	RZASG100MY(1)	3	2			P			3	2		3	2		3	2			P		
RZASG125MV(1)	RZASG125MY(1)	4	3	2			P		4	3	2	4	3	2	4	3	2			P	
RZASG140MV(1)	RZASG140MY(1)	4	3		2			P	4	3		4	3		4	3		2			P

		FDA-A	FHA-A(9)							FUA-A			FAA-B		FVA-A				FNA-A9		
capacity class		125	35	50	60	71	100	125	140	71	100	125	71	100	71	100	125	140	35	50	60
RZASG71MV1			2			P				P			P		P				2		
RZASG100MV(1)	RZASG100MY(1)		3	2			P				P			P		P			3	2	
RZASG125MV(1)	RZASG125MY(1)	P	4	3	2			P				P					P		4	3	2
RZASG140MV(1)	RZASG140MY(1)		4	3		2			P	2			2		2			P	4	3	

P = Pair, 2 = Twin, 3 = Triple, 4 = Double twin

RZASG-MV1 RZASG-MY1 RZASG-MV RZASG-MY

Outdoor unit				RZASG	71MV1	100MV(1)	125MV(1)	140MV(1)	100MY(1)	125MY(1)	140MY(1)
Dimensions	Unit	HeightxWidthxDepth		mm	770x900x320	990x940x320					
Weight	Unit			kg	60	70 (MY1)/72 (MY)		78 (MV1)/79 (MV)	70 (MY1)/72 (MY)		78 (MV1)/79 (MV)
Sound power level	Cooling			dBA	65	70	71	73	70	71	73
	Heating			dBA	-		71(1)	73(1)	-	71(1)	73(1)
Sound pressure level	Cooling	Nom.		dBA	46	53		54	53		54
	Heating	Nom.		dBA	47	57					
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-15~46						
	Heating	Ambient	Min.~Max.	°CWB	-15~15.5						
Refrigerant	Type/GWP				R-32/675						
	Charge			kg/TCO2Eq	2.45/1.65	2.60/1.76		2.90/1.96	2.60/1.76		2.90/1.96
Piping connections	Liquid/Gas	OD		mm	9.52/15.9						
	Piping length	OU - IU	Max.	m	50						
		System	Equivalent	m	70						
			Chargeless	m	30						
	Additional refrigerant charge			kg/m	See installation manual						
	Level difference	IU - OU	Max.	m	30.0						
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240				3~/50/380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	20	25		32	16		

(1)According to ENER Lot 21 | Contains fluorinated greenhouse gases

Sky Air Advance-series

R-32

SkyAir Advance-series
BLUEVOLUTION

Large Sky Air system for commercial applications in the most compact casing ever

- Compact (870mm high) and lightweight single fan design makes the unit unobtrusive, saves space and is easy to install
- Market-leading serviceability and handling, thanks to wide access area, 7-segment display and additional handle
- Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A, leads directly to lower energy consumption thanks to its high energy efficiency and has a lower refrigerant charge
- Replace existing systems with R-32 technology without needing to replace the piping
- Guarantees operation in heating mode down to -20°C
- Refrigerant cooled PCB guarantees reliable cooling, as it is not influenced by ambient temperature.
- Maximum piping length up to 100m
- Maximum installation height difference up to 30m
- Outdoor units for pair, twin, triple, double twin application
- Combines with EKLN-A low sound enclosure



RZA-D

Comfort cooling combination table

	FCAG-B					FFA-A9		FDXM-F9		FBA-A(9)					FHA-A(9)					FDA-A			FUA-A			FAA-B		FVA-A			FNA-A9	
capacity class	50	60	71	100	125	50	60	50	60	50	60	71	100	125	50	60	71	100	125	125	200	250	71	100	125	71	100	71	100	125	50	60
RZA200D	4	3	3	2		4	3	4	3	4	3	3	2		4	3	3	2			P		3	2		3	2	3	2		4	3
RZA250D		4			2		4		4		4			2		4			2	2		P			2					2		4

P = pair application

RZA-D

Outdoor unit				RZA	200D	250D
Dimensions	Unit	HeightxWidthxDepth		mm	870x1,100x460	
Weight	Unit			kg	117	
Sound power level	Cooling			dBA	73	76
	Heating			dBA	76	79
Sound pressure level	Cooling	Nom.		dBA	53	57
	Heating	Nom.		dBA	60	63
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-20~46	
	Heating	Ambient	Min.~Max.	°CWB	-20~15	
Refrigerant	Type/GWP				R-32/675	
	Charge			kg/TCO2Eq	5/3.38	
Piping connections	Liquid/Gas	OD		mm	9.52/22.2	
	Piping length	OU - IU	Max.	m	100	
		System	Chargeless	m	30	
	Additional refrigerant charge			kg/m	See installation manual	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/380-415	
Current - 50Hz	Maximum fuse amps (MFA)			A	20	

Contains fluorinated greenhouse gases

NEW ARXM-A / AZAS-MV / MY

Sky Air Active-series

R-32

SkyAir Active-series BLUEVOLUTION

Ideal solution for busy environments and small shops

- High efficiency:
  - Energy labels up to A+ (cooling) / A (heating)
  - compressor offers substantial efficiency improvements
- Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
- Very compact and easy to install
- Replace existing systems with R-32 technology without needing to replace the piping



- Guarantees operation in heating mode down to -15°C and in cooling mode down to -10°C
- Refrigerant cooled PCB guarantees reliable cooling, as it is not influenced by ambient temperature.
- Piping length up to 30m
- Exclusively offered for pair applications



AZAS100-140MV_MY

Outdoor unit silent operation

Pair application

	FCAG-B				FBA-A(9)				FAA-B				FHA-A(9) NEW				FVA-A NEW				ADEA-A		
capacity class	71	100	125	140	71	100	125	140	71	100	125	140	71	100	125	140	71	100	125	140	71	100	125
ARXM-A NEW	P				P				P				P								P		
AZAS-MV NEW		P	P	P		P	P	P		P				P	P	P		P	P	P		P	P
AZAS-MY NEW		P	P	P		P	P	P		P				P	P	P		P	P	P			

P = pair application

ARXM-A AZAS-MV AZAS-MY

Outdoor Unit					ARXM71A	AZAS100MV	AZAS125MV	AZAS140MV	AZAS100MY	AZAS125MY	AZAS140MY
Dimensions	Unit	HeightxWidthxDepth		mm	734x954x401	990x940x320					
Weight	Unit			kg	49.0	72		79	72		79
Sound power level	Cooling			dBA	-	70	71	73	70	71	73
	Heating			dBA	-	70	71	73	70	71	73
Sound pressure level	Cooling	Nom.		dBA	52.0	53		54	53		54
	Heating	Nom.		dBA	52.0	57					
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10~46						
	Heating	Ambient	Min.~Max.	°CWB	-15~18	-15~15.5					
Refrigerant	Type/GWP				R-32/675						
	Charge			kg/TCO2Eq	1.15/0.780	2.60/1.76		2.90/1.96	2.60/1.76		2.90/1.96
Piping connections	Liquid/Gas	OD		mm	9.52/15.9						
	Piping length	OU - IU	Max.	m	30						
		System	Equivalent	m	-	50					
			Chargeless	m	-	30					
	Additional refrigerant charge			kg/m	0.035 (for piping length exceeding 10m)	See installation manual					
	Level difference	IU - OU	Max.	m	20.0	30.0					
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240				3~/50/380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	16	25		32	16		

Contains fluorinated greenhouse gases

Options - Sky Air

			FCAHG-H FCAG-B	FFA-A9	FDXM-F9	FBA-A(9)
	Indoor units					
Panels	Decoration panel (obligatory for cassette units, optional for others)		Standard panels: BYCQ140E (white) / BYCQ140EW (full white)(1) / BYCQ140EB (black) Auto cleaning panels(2) (4): BYCQ140EGF (white) / BYCQ140EGFB (black) Designer panels: BYCQ140EP (white) / BYCQ140EPB (black)	BYFQ60C2W1W (white panel) BYFQ60C2W1S (grey panel) BYFQ60B3W1 (standard panel)		
	Panel spacer for reducing required installation height			KDBQ44B60 (only for standard panel)		
	Sealing kit for 3- or 2-directional air discharge		KDBHQ56B140 (11)	BDBHQ44C60		
	Sensor kit		BRYQ140B (white) BRYQ140BB (black) BRYQ140C (white designer) BRYQ140CB (black designer)	BRYQ60AW (white)(9) BRYQ60AS (silver)(9)		
Individual control systems	Onecta app		BRP069C82 (14) (18)	BRP069C81 (18)	BRP069C81	BRP069C81 (18)
	Infrared remote control (incl. receiver)		BRC7FA532F (white) (11) (16) BRC7FA532FB (black) (11) (16) BRC7FB532F (designer white) (11) (16) BRC7FB532FB (designer black) (11) (16)	BRC7EB530W for standard panel (5)(6) BRC7F530W for white panel (5)(6) BRC7F530S - for silver panel (5)(6)	BRC4C65	BRC4C65
	Madoka **BRC1H52W** (9) (White) / **BRC1H52S** (9) (Silver) / **BRC1K552K** (9) (Black) User-friendly wired remote controller with premium design		•	•	•	•
	BRC1E53A/B/C (3) (13) - Wired remote controller with full-text interface and back-light		•	•	•	•
Centralised control systems	**DIII-net connection** - for connection to centralized control		standard	standard	standard	standard
	DCC601A51 - intelligent Tablet Controller		•	•	•	•
	DCS601C51 (13) - intelligent Touch Controller		•	•	•	•
	DCS302C51 (13) - Central remote controller		•	•	•	•
	DCS301B51 (13) - Unified ON/OFF controller		•	•	•	•
Building Management System & Standard protocol interfaces – **for individual control**	EKMBPP1 - Modbus interface for monitoring and control		•	•	•	•
	RTD-10 - Modbus interface for infrastructure cooling		•	•	•	•
	RTD-20 - Modbus interface for retail		•	•	•	•
	RTD-HO - Modbus interface for hotel		•	•	•	•
	KLIC-DI_V2 - KNX Interface		•	•	•	•
Building Management System & Standard protocol interfaces – **for central control**	DCM601B51 - intelligent Touch Manager		•	•	•	•
	DGE601A51 - Edge adapter for connection to Daikin Cloud Plus		•	•	•	•
	DGE602A51 - Edge lite adapter for connection to Daikin Cloud Plus		•	•	•	•
	EKMBDXB - Modbus interface		•	•	•	•
	DCM010A51 - Daikin PMS interface		•	•	•	•
	DMS502A51 - BACnet Interface		•	•	•	•
	DMS504B51 - LonWorks Interface		•	•	•	•
Filters	Auto cleaning filter		see deco panel		BAE20A62 (25 - 35) BAE20A102 (50 - 60)	
	UV Streamer kit (purifies the air of pollutants such as virusses, bacteria, fine dust, odours, allergens, etc ensuring a healthy indoor environment)	UV Streamer kit	BAEF125AWB (22)			
		Replacement filter	BAF55A125			
	High efficiency filter		ePM10 60% BAF552AA160 (23) (BAF552AA160-5: box of 5 filters) (BAF552AA160-10: box of 10 filters)			
	Replacement long-life filter, non-woven type		KAF5511D160	KAF441C60		
	Filter chamber					
Wiring and sensors	Extension wire auto cleaning panel (required when auto cleaning panel AND Onecta app are both installed)					
	KRCS - External wired temperature sensor		KRCS01-5B	KRCS01-4	KRCS01-4	KRCS01-4
	K.RSS - External wireless temperature sensor		SB.K.RSS_RFC (EKEWTSC-2 + K.RSS)	•		•
Wiring and sensors Adapters	Wiring adapter with 2 output signals (compressor/ Error, Fan output)		KRP1BA58 (10)(11)	KRP1B57 (10)	KRP1B56 (10)	
	Adapter (interlock for fresh air intake fan)					KRP1B54
	Adapter with 4 output signals (compressor / Error, Fan, Aux., heater, Humidifier output)		EKRP1C12 (10)(11)	EKRP1B2		EKRP1B2 (7)
	Adapter for centralised external monitoring/control (controls 1 entire DIII-NET system)				KRP2A53 (10)	KRP2A51 (7)(10)
	Adapter for centralised external monitoring/control via dry contacts and setpoint control via 0-140Ω (for dedicated indoor)		KRP4A53 (10)(11)(17)	KRP4A51	KRP4A54-9	KRP4A52 (10)
	Adapter for keycard and/or window contact connection (in combination with BRC1H*, BRC1/2/3E* only)		BRP7A53	BRP7A53	BRP7A54 (10)	BRP7A51 (12)
	Installation box/Mounting plate for adapter PCBs (when there is no space in the switchbox, an installation box is required)		KRP1H98A (11)	KRP4A93	KRP1BC101	KRP1BC101
	Wiring kit for Remote ON/OFF or Forced OFF		standard	standard	standard	standard
Others	Drain pump kit					
	Multi zoning kit (for detailed model code overview refer to multizoning argue card in this catalogue)				•	•
	L-type piping kit (upward direction)					
	Fresh air intake kit (direct installation type)		KDDP55C160-1 (chamber) KDDP55D160-2 (diffuser) (11)	KDDQ44XA60		
	Air discharge adapter for round duct					KDAP25A56A (35-50) KDAP25A71A (60-71) KDAP25A140A (100-140)

(1) Dirt formation is more easily visible on white insulation. It is recommended not to install this option in environments with a high concentration of dirt.
(2) To be able to control option BYCQ140EG(F)/EGFB, controller BRC1H*, BRC1E* is needed. These options cannot be combined with RXYSQ*, multi or non-inverter split units
(3) Included languages are:
A: English, German, French, Dutch, Spanish, Italian and Portuguese
B: English, Bulgarian, Croatian, Czech, Hungarian, Romanian and Slovenian
C: English, Greek, Polish, Russian, Albanian, Slovak and Turkish
(4) The option is intended exclusively for use in fine dust enviornments (e.g. Clothing shops). Do not use it in environments that are greasy or have high humidity. F = finer mesh
(5) Sensing function is not available
(6) Individual flap control function not available
(7) If installing an electrical heater, an option PCB for external electrical heater (EKRP1B2) for each indoor unit is required. These options require mounting plate KRP4A96. Electrical heaters and humidifiers are field-supplied. Do not install them inside the equipment.
(8) Mounting plate KRP4A96 is required for these options. Maximum 2 option PCB's can be mounted.
(9) This option cannot be used with RR and RQ models

FDA125A	FDA200-250A	ADEA-A	FAA-B	FTXM-A	FHA-A(9)	FUA-A	FVA-A	FNA-A9
BYBS125D (19)						KDBTP49B140		
						KDBHP49B140		
BRP069C81 (18)	BRP069C82 (20)	BRP069C81 (18)	BRP069C81 (18)	Integrated in PCB	BRP069C81 (18)	BRP069C81 (18)	BRP069C81 (18)	BRP069C81 (18)
BRC4C65	BRC4C65	BRC4C65	BRC7EA631 (71 class) BRC7EA632 (100 class)	ARC466A67	BRC7GA53-9	BRC7C58		BRC4C65
•	•	•	•		•	•	•	•
•	•	•	•	• (BRC073A1) BRCW901A03/A08 extention cords available (15)	•	•	•	•
standard	standard	standard	standard	KRP928BB2S (15)	standard	standard	standard	standard
•	•	•	•		•	•	•	•
•	•	•	•	• (15)	•	•	•	•
•	•	•	•	• (15)	•	•	•	•
•	•	•	•	• (15)	•	•	•	•
•	•	•	•	• (15)	•	•	•	•
•	•	•	•	• (15)	•	•	•	•
•	•	•	•	• (15)	•	•	•	•
•	•	•	•	• (15)	•	•	•	•
•	•	•	•	• (KLIC-DDV3) (15)	•	•	•	•
•	•	•	•	• (15)	•	•	•	•
•	•	•	•	• (15)	•	•	•	•
•	•	•	•	• (15)	•	•	•	•
•	•	•	•	• (15)	•	•	•	•
•	•	•	•	• (15)	•	•	•	•
•	•	•	•	• (15)	•	•	•	•
	BAFL502A250 (20)				KAF501B56 (35-50) KAF501B80 (60-71) KAF501B160 (100-140)	KAF5511D160	KAFJ95L160	
	BDD500B250							
KRCS01-4	KRCS01-6B	KRCS01-4	KRCS01-4		KRCS01-4	KRCS01-4		KRCS01-4
•	SB.K.RSS_FDA (EKEWTSC-1 + K.RSS)	•			•	•		•
	KRP4A51 (17)		KRP4A51 (10)	KRP413AB1S (15) / KRP413BB1S (15)			KRP1B57 (10)	
KRP1C64 (8)	KRP1C65	KRP1B54			KRP1B54 (10)			
EKRP1B2 (7)	EKRP1C13	EKRP1B2 (7)						KRP1B56
KRP2A51 (8)	KRP2A51 (17)	KRP2A51 (7)(10)						
		KRP4A52 (10)			KRP4A52 (10)	KRP1B97	KRP4A52 (10)	KRP4A54-9
BRP7A54 (8)	BRP7A54	BRP7A51 (12)	BRP7A51 (10)		BRP7A52 (10)	BRP7A53 (10)	BRP7A52 (10)	
KRP4A96		KRP1BC101	KRP4B93		KRP1D93A (21)	KRP1BA97	KRP4AA95	KRP1BB101
EKRORO3		standard	standard		EKRORO4	EKRORO5	standard	standard
	BDU510B250VM		K-KDU572KVE		KDU50R63 (35 - 60) KDU50R160 (71 - 140)			
		•						
					KHFP5MA35 (35) KHFP5N63 (50-60) KHFP5N160 (71-140)			
KDAJ25K140A		KDAP25A56A (35-50) KDAP25A71A (60-71) KDAP25A140A (100-140)						

(10) Requires installation box for adapter PCB, refer to table for model code
(11) This option cannot be combined with BYCQ140EG(F)/EGFB
(12) Maximum 2 optional PCBs can be mounted
(13) Applicable boxes (KJB*) to mount controllers can be found in the controls option list
(14) Extention wire (EWHAR1) is needed if both auto cleaning panel AND Onecta app are connected
(15) Wire harness EKRS21 needed. Standard Wireless LAN needs to be turned off to use these controllers
(16) The active airflow circulation function is not available for this controller
(17) This option cannot be combined with Onecta app
(18) Only possible in combination with wired or wireless remote control
(19) For directly mounting the decoration panel on the unit, decoration panel option EKBYBSD is required.
(20) This option cannot be combined with KRP4A51 and KRP2A51. (in case of filter, filter chamber is required)
(21) Mounting plate KKSAP50A56 needed for 35-50 capacity class
(22) Only possible in combination with BYCQ140E and BYCQ140EW. Cannot be combined with other filters, chambers, fresh air intake kits or air discharge outlet sealing member kit
(23) Only possible in combination with BYCQ140E/EW/EB. Cannot be combined with other filters, chambers, fresh air intake kits or discharge outlet sealing member kit

Options - Sky Air

		R-32				
		RZAG-B	**RZAG-NV1/NY1**	**RZASG-MV(1)/MY(1)**	**RZA-D**	**AZAS-MV/MY**
Refrigerant branch piping (3)	for twin		KHRQ58T (imperial size)	KHRQ58T (imperial size)	KHRQ22M20TA (imperial size)	
	for triple		KHRQ58H (imperial size)	KHRQ58H (100 - 140) (imperial size)	KHRQ250H7 (imperial size)	
	for double twin		KHRQ58T (3x) (125 - 140) (imperial size)	KHRQ58T (3x) (125 - 140) (imperial size)	KHRQ22M20TA (x3) (imperial size)	
	Asymmetric combinations piping reducer	ASYCPIR (see table below)				
Demand adapter kit			SB.KRP58M52 (1)	SB.KRP58M52 (1)	KRP58M51 (2)	
Bottom plate heater - To keep drain holes ice-free in extreme weather conditions			EKBPH140N		EKBPH250D	
Sound enclosure			EKLN140A		EKLN140A	

(1) Contains KRP58M1 and obligatory mounting kit EKMKSA2
(2) To mount KRP58M51, an additional mounting kit (EKMKSA3) needs to be used (obligatory)
(3) For metric size refrigerant branching contact your local sales representative

EKLN140A - Sound enclosure

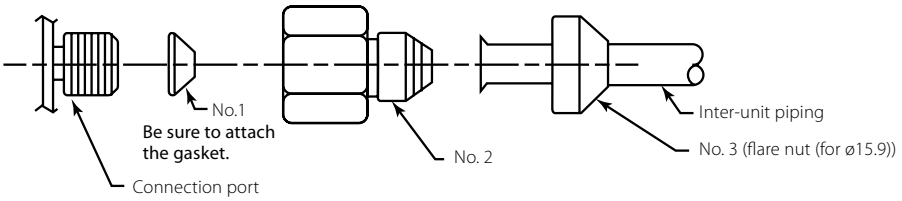
Drain pan	EKLN140-DP
Drain pan heater tape	EKLN140-DPHT (1)

(1) Only in combination with EKLN140-DP

Option for asymmetric combination (Asymmetric combinations piping reducer)

ASYCPIR		**Liquid**	**GAS**	
		ø 9.52 → ø 6.4	ø 12.7 → ø 9.52	ø 15.9 → ø 12.7
RZAG35A	FDXM50F9		•	
	FFA50A9		•	
	FBA50A9		•	
	FCAG50B		•	
	FNA50A9		•	
	FTXM50A		•	
	FHA50A9		•	
RZAG60A	FBA71A9	•		
	FCAG71B	•		•
	FTXM71A			•
	FHA71A9	•		•

Example of using:
1) Connecting a pipe of ø12.7 to a gas pipe connection port for ø15.9:



Wide range

of R-32 rooftop units to cover your needs



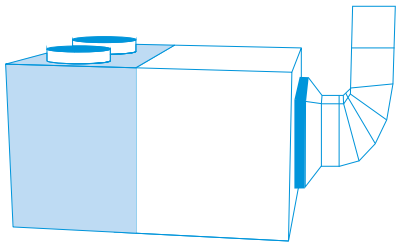
Rooftop

Why choose Daikin Rooftop series	466
▪ UATYA-BBAY1	468
▪ UATYA-BFC2Y1	468
▪ UATYA-BFC3Y1	469
▪ UATYA-BRS4	469
Options & Accessories	472



Wide range of R-32 rooftop units to cover your needs

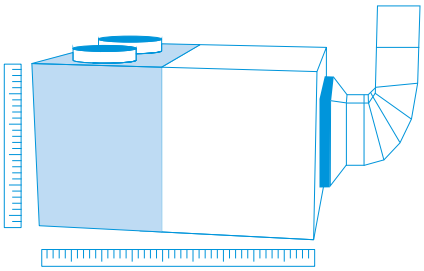
Made-To-Stock units (MTS)



48 predefined units readily available from stock

- Fast delivery
- 3 versions: Base, 2 dampers and 3 dampers
  - Thermodynamic heat recovery available on full FC3 range
- Capacity up to 190 kW!
- Comes with a wide range of standard integrated features

Made-To-Order units (MTO)



Fully customizable units for maximum flexibility

- Almost infinite configuration possibilities thanks to wide choice of options
- 4 versions: Base, 2 dampers, 3 dampers and 4 dampers
  - Thermodynamic heat recovery available on full FC3 range
  - Premium efficiency plate heat exchanger available on RS4 range
- Capacity up to 190 kW!
- Comes with a wide range of standard integrated features
- Easy selection via selection software: rooftop.daikin.eu

Products overview rooftops

BLUEVOLUTION

Capacity class (kW)

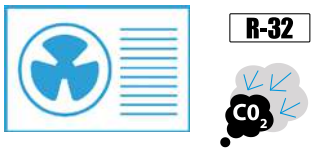
Type	Model	MTS Product name	Refrigerant	Version	25	30	40	50	60	70	80	90	100	110	120	140	150	160	180	190
Air cooled Heat pump	Rooftop unit With extensive base package for high installation flexibility and easy servicing ▪ 'Plug and play' for easy installation ▪ High efficiency ▪ Flexible supply and return air direction ▪ Direct integration with Daikin or third party BMS ▪ Factory pre-charged refrigerant	UATYA-BBAY1	R-32	MTS MTO	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Rooftop unit 2 damper version with integrated fresh air ▪ Free cooling with up to 100% fresh air intake ▪ Comes with all Base model features	UATYA-BFC2Y1		MTS MTO	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Rooftop unit 3 damper version with integrated fresh air and extraction ▪ Integrated extraction damper eliminates over-pressure ▪ Thermodynamic heat recovery, recovering waste heat ▪ Comes with all FC2 model features	UATYA-BFC3Y1		MTS MTO	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Rooftop unit 4 damper version with integrated fresh air, extraction and plate heat exchanger ▪ Premium efficiency plate heat exchanger, recovering waste heat ▪ Comes with all FC3 model features	UATYA-BRS4*		MTO	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

* Indicative model name. Correct model name to be retrieved from selection software.

Standard integrated features on all Made-To-Stock and Made-To-Order units

1 R-32 refrigerant

- Top sustainability thanks to the use of low GWP (675) refrigerant
- Single component refrigerant, easy to re-use and recycle



BLUEVOLUTION

2 Inverter driven compressors

- Great year-round seasonal efficiency
- Available up to 120 kW models

3 Capacity range up to 190 kW!

- More flexibility to tackle larger projects with a small footprint

4 25 mm double skinned panels

- Ensuring long-lasting life and providing good thermal and sound insulation



5 Full color touch display

- Intuitive to use
- Better visualisation of unit parameters



6 Integrated connectivity

- Integration into Daikin intelligent Touch Manager BMS (via BACNET protocol)
- Integration in 3rd party BMS systems via Ethernet port (BACnet TCP/IP & Modbus TCP/IP) or 3-cable port (Modbus over RS485)



7 Selection software

- Easy selection of the correction unit and options based on location conditions
- Direct availability of technical drawings

Select and configure your rooftop now!
rooftop.daikin.eu



8 BIM objects

- All made to stock units available as Revit, IFC, Archicad and AutoCAD files
- All made to order units available as Revit

Revit
IFC
Archicad
AutoCAD

Download our objects now!
bim.daikin.eu

More standard integrated features

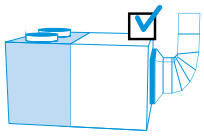
- ISO Coarse 75% filter (G4) (standard for MTS only)
- Standard clogged filter alarm
- Flexible air delivery
- Hydrophilic aluminum fins on indoor and outdoor unit side
- Mesh coil guard on outdoor heat exchanger
- Factory mounted drain pan with heater
- Single operation voltage-free contact
- Power supply connection safety through max/min voltage relay and reversed phase connection

4 versions to choose from

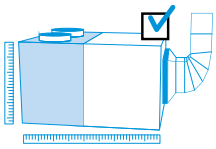
UATYA-BBAY1

High installation flexibility and easy servicing

- Easy to install 'plug and play' concept plus single installation configuration; no additional piping is required since indoor and outdoor sides are pre-connected
- High efficiency and reliable scroll compressor
- Factory pre-charged refrigerant ensures clean and efficient operation

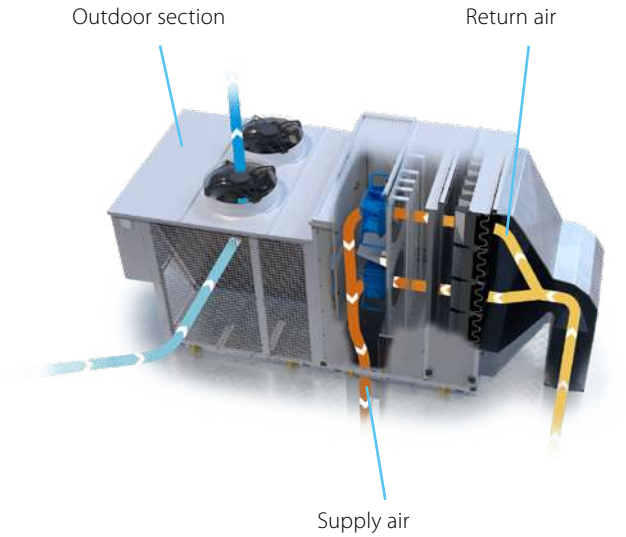


Made-To-Stock units (MTS)



Made-To-Order units (MTO)

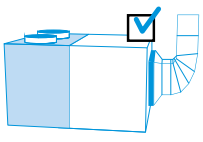
Heating operation example



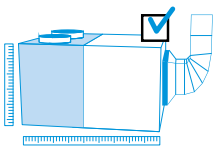
UATYA-BFC2Y1

2 damper version, with integrated fresh air

- Free cooling with up to 100% fresh air possible
  - Improved air quality
  - Energy saving using fresh outdoor air to cool the building
- Includes all Base model features

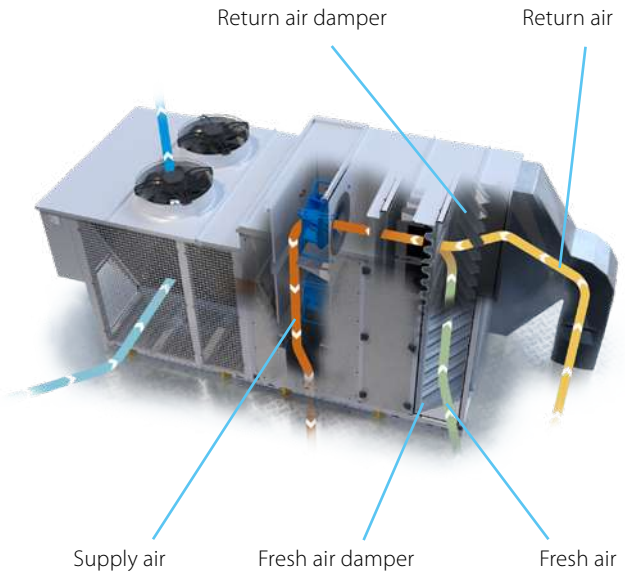


Made-To-Stock units (MTS)



Made-To-Order units (MTO)

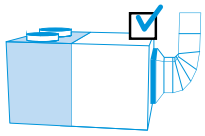
Heating operation example



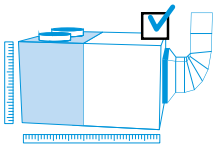
UATYA-BFC3Y1

3 damper version, with integrated fresh air and extraction

- Extraction damper integrated
  - Eliminates excessive overpressure in the building
  - Including high efficient extraction fan for optimum air circulation in larger buildings
- Thermodynamic heat recovery
  - Saves energy by recovering waste heat through the outdoor heat exchanger
  - Available on all models
- Includes all FC2 model features

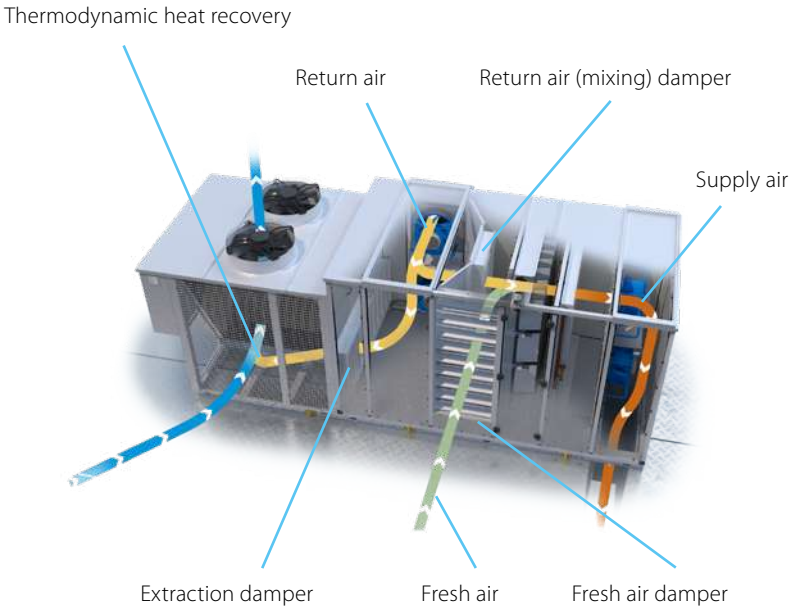


Made-To-Stock units (MTS)



Made-To-Order units (MTO)

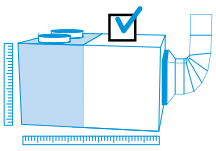
Heating operation example



UATYA-BRS4*

4 damper version, with integrated fresh air, extraction and plate heat recovery

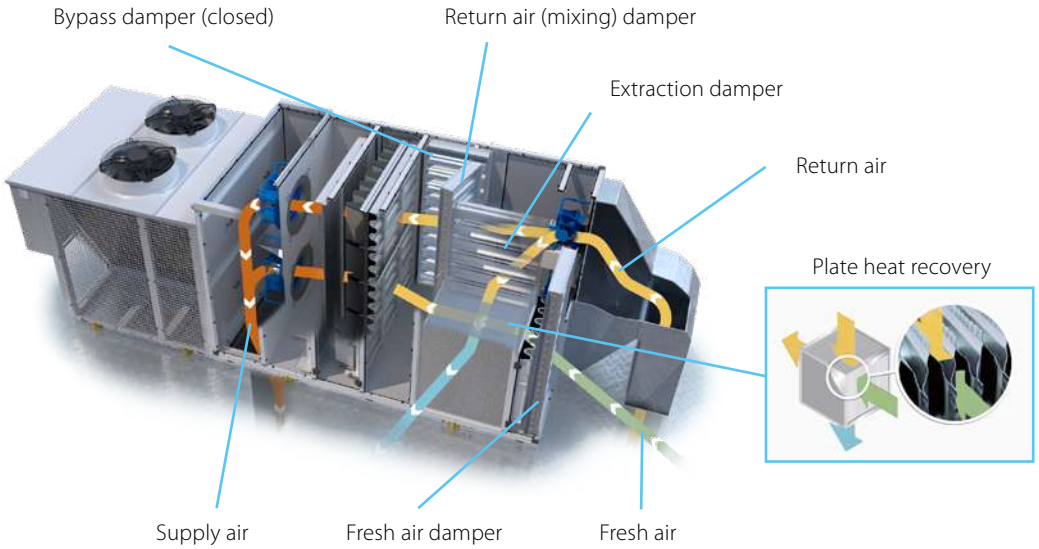
- Premium efficiency counter flow plate heat exchanger
  - Recovers up to 58% waste heat from the return air
  - Available in 50% and 100% return air heat recovery
- Bypass damper to allow plate heat exchange or free cooling
- Additional thermodynamic heat recovery available up to 50kW models
- Includes all FC3 model features
- Only available as Made-To-Order model



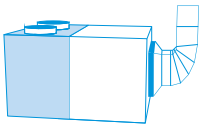
Made-To-Order units (MTO) only

* Indicative model name. Correct model name to be retrieved from selection software.

Plate heat recovery mode in heating operation



Specifications Made-To-Stock units



UATYA-BBAY1

UATYA-BBAY1



UATYA20-30BBAY1

Indoor Unit					UATYA	25	30	40	50	60	70	80	90	100	110	120	140	150	160	180	190
Cooling capacity	Nom.				kW	24.1	31.3	38.7	45.7	58.8	65.3	74.8	89.8	95.8	108.9	115.0	133.4	144.7	154.6	171.9	187.0
Heating capacity	Nom.				kW	24.0	29.5	36.3	46.2	55.1	64.9	68.5	84.2	92.8	101.5	108.0	123.1	136.4	147.1	157.1	176.9
EER						2.83	3.09	3.06	2.96	3.12	2.92	3.09	3.06	2.97	2.99	2.91	3.14	3.02	3.05	3.07	2.97
COP						3.22	3.31	3.26	3.24	3.25	3.21	3.37	3.22	3.20	3.35	3.25	3.44	3.33	3.26	3.33	3.27
Space cooling	Capacity	Pdesign			kW	24.1	31.3	38.7	45.7	58.8	65.3	74.8	89.8	95.8	108.9	115.0	133.4	144.7	154.6	171.9	187.0
	SEER					4.52	4.79	5.39	5.26	5.50	4.53	5.56	5.47	5.17	5.29	5.15	4.38	4.26	4.27	4.15	4.08
	ηs,c				%	177.8	188.6	212.5	207.0	217.1	178.1	219.4	215.8	203.7	208.6	203.0	172.1	167.2	167.6	162.8	160.2
Space heating (Average climate)	Capacity	Pdesign			kW	24.0	29.5	36.3	46.2	55.1	64.9	68.5	84.2	92.8	101.5	108.0	123.1	136.4	147.1	157.1	176.9
	SCOP/A					3.35	3.38	3.67	3.64	3.47	3.41	3.70	3.65	3.62	3.56	3.53	3.39	3.36	3.34	3.31	3.34
	ηs,h				%	131.0	132.2	143.6	142.7	135.6	133.5	145.2	143.0	141.6	139.3	138.3	132.5	131.4	130.8	129.5	130.6
Evaporator	Supply side	Air discharge direction				Bottom, Right, Left															
		Fan	Air flow rate		m^3/h	4,500	5,800	7,500	9,000	11,000	13,000	14,500	16,500	18,000	19,800	21,600	25,000	26,500	28,000	30,500	31,500
			Nominal ESP		Pa	300															
	Return side - Supply side	Air intake direction - Air discharge direction				Rear															
		Thermodynamic heat recovery - Air discharge direction				No															
	Fresh air - Supply side	Standard - Air discharge direction				No															
Condenser	Air flow rate	Cooling			m^3/h	15,725	16,038	16,374	16,341	31,183	32,203	35,774	37,285	36,195	38,143	36,865	70,704	72,395	67,733	70,200	72,005
	Refrigerant	GWP				675															
		Charge			kg	7.0	10.0	12.0	15.0	18.0		23.0	24.0	28.0	30.0	36.0	38.0		46.0	50.0	
Dimensions	Unit	Height			mm	1,924		2,374		1,924		2,374									
		Width			mm	2,250															
		Depth			mm	2,427				4,317							5,117				
Weight	Unit				kg	852	908	966	986	1,551	1,651	1,798	1,856	1,922	2,008	2,018	2,454	2,462	2,504	2,558	2,636
Casing	Colour					RAL 7035															
Sound pressure level	Cooling				dBA	63.9	66.0	68.0	67.3	69.0	68.1	72.6	68.7	69.9	70.6	74.2	68.3		68.7	69.1	70.0
Sound power level	Cooling				dBA	82.2	84.3	86.8	86.1	88.5	87.5	92.5	88.6	89.8	90.5	94.1	88.6		89.0	89.3	90.2
Operation range	Cooling	Min. ~ Max.			°CDB	-10 ~ 48															
	Heating	Min. ~ Max.			°CWB	-15 ~ 26															
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50 /400															
Current	Recommended fuses				A	25	40		50		63	80	100				160			200	

UATYA-BFC2Y1

UATYA-BFC2Y1



UATYA60-70BFC2Y1

Indoor Unit					UATYA	25	30	40	50	60	70	80	90	100	110	120	140	150	160	180	190
Cooling capacity	Nom.				kW	24.1	31.3	38.7	45.7	58.8	65.3	74.8	89.8	95.8	108.9	115.0	133.4	144.7	154.6	171.9	187.0
	With 30% fresh air				kW	25.8	33.6	41.5	48.9	63.0	69.9	80.7	96.6	102.7	117.0	122.7	143.1	154.9	165.7	184.2	200.5
Heating capacity	Nom.				kW	24.0	29.5	36.3	46.2	55.1	64.9	68.5	84.2	92.8	101.5	108.0	123.1	136.4	147.1	157.1	176.9
	With 30% fresh air				kW	24.3	29.6	36.5	46.3	55.1	65.1	69.2	84.7	94.8	102.1	108.7	124.2	137.5	148.4	158.7	180.2
EER						2.83/2.96	3.09/3.26	3.06/3.21	2.96/3.10	3.12/3.28	2.92/3.06	3.09/3.26	3.06/3.24	2.97/3.13	2.99/3.13	2.91/3.03	3.14/3.29	3.02/3.16	3.05/3.19	3.07/3.21	2.97/3.10
COP						3.22/3.43	3.31/3.53	3.26/3.48	3.24/3.51	3.25/3.47	3.21/3.44	3.37/3.62	3.22/3.47	3.20/3.46	3.35/3.60	3.25/3.48	3.44/3.69	3.33/3.57	3.26/3.50	3.33/3.58	3.27/3.55
Space cooling	Capacity	Pdesign			kW	24.1	31.3	38.7	45.7	58.8	65.3	74.8	89.8	95.8	108.9	115.0	133.4	144.7	154.6	171.9	187.0
	SEER					4.52	4.79	5.39	5.26	5.50	4.53	5.56	5.47	5.17	5.29	5.15	4.38	4.26	4.27	4.15	4.08
	ηs,c				%	177.8	188.6	212.5	207.0	217.1	178.1	219.4	215.8	203.7	208.6	203.0	172.1	167.2	167.6	162.8	160.2
Space heating (Average climate)	Capacity	Pdesign			kW	24.0	29.5	36.3	46.2	55.1	64.9	68.5	84.2	92.8	101.5	108.0	123.1	136.4	147.1	157.1	176.9
	SCOP/A					3.35	3.38	3.67	3.64	3.47	3.41	3.70	3.65	3.62	3.56	3.53	3.39	3.36	3.34	3.31	3.34
	ηs,h				%	131.0	132.2	143.6	142.7	135.6	133.5	145.2	143.0	141.6	139.3	138.3	132.5	131.4	130.8	129.5	130.6
Evaporator	Supply side	Air discharge direction				Frontal, Left				Bottom, Right, Left											
		Fan	Air flow rate		m^3/h	4,500	5,800	7,500	9,000	11,000	13,000	14,500	16,500	18,000	19,800	21,600	25,000	26,500	28,000	30,500	31,500
			Nominal ESP		Pa	300															
	Return side - Supply side	Air intake direction - Air discharge direction				Rear, Left, Right															
		Thermodynamic heat recovery - Air discharge direction				No															
	Fresh air - Supply side	Standard - Air discharge direction				Yes															
	Fresh air	Ratio	Standard		%	30															
			In free cooling		%	100															
Condenser	Air flow rate	Cooling			m^3/h	15,725	16,038	16,374	16,341	31,183	32,203	35,774	37,285	36,195	38,143	36,865	70,704	72,395	67,733	70,200	72,005
	Refrigerant	GWP				675															
		Charge			kg	7.0	10.0	12.0	15.0	18.0		23.0	24.0	28.0	30.0	36.0	38.0		46.0	50.0	
Dimensions	Unit	Height			mm	1,924		2,374		1,924		2,374									
		Width			mm	2,250															
		Depth			mm	2,943				4,879							5,679				
Weight	Unit				kg	981	1,014	1,084	1,143	1,703	1,803	1,984	2,040	2,110	2,196	2,206	2,658	2,668	2,708	2,746	2,828
Casing	Colour					RAL 7035															
Sound pressure level	Cooling				dBA	63.9	66.0	68.0	67.3	69.0	68.1	72.6	68.7	69.9	70.6	74.2	68.3		68.7	69.1	70.0
Sound power level	Cooling				dBA	82.2	84.3	86.8	86.1	88.5	87.5	92.5	88.6	89.8	90.5	94.1	88.6		89.0	89.3	90.2
Operation range	Cooling	Min. ~ Max.			°CDB	-10 ~ 48															
	Heating	Min. ~ Max.			°CWB	-15 ~ 26															
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50 /400															
Current	Recommended fuses				A	25	40		50		63	80	100				160			200	

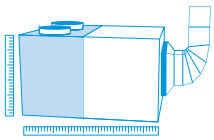
UATYA-BFC3Y1



UATYA80-120BFC3Y1

Indoor Unit					UATYA	25	30	40	50	60	70	80	90	100	110	120	140	150	160	180	190
Cooling capacity	Nom.				kW	24.1	31.3	38.7	45.7	58.8	65.3	74.8	89.8	95.8	108.9	115.0	133.4	144.7	154.6	171.9	187.0
	With 30% fresh air				kW	26.0	33.9	42.5	49.6	63.7	70.5	81.3	96.8	104.3	118.0	124.5	145.6	156.8	168.3	186.5	204.4
Heating capacity	Nom.				kW	24.0	29.5	36.3	46.2	55.1	64.9	68.5	84.2	92.8	101.5	108.0	123.1	136.4	147.1	157.1	176.9
	With 30% fresh air				kW	25.0	31.0	38.3	47.7	57.1	68.6	71.6	87.2	97.9	107.0	112.3	132.0	147.5	160.0	173.5	191.6
EER						2.83/2.96	3.09/3.20	3.06/3.27	2.96/3.12	3.12/3.23	2.92/3.00	3.09/3.21	3.06/3.22	2.97/3.14	2.99/3.11	2.91/3.01	3.14/3.26	3.02/3.14	3.05/3.18	3.07/3.21	2.97/3.14
COP						3.22/3.41	3.31/3.50	3.26/3.51	3.24/3.46	3.25/3.40	3.21/3.39	3.37/3.56	3.22/3.45	3.20/3.42	3.35/3.57	3.25/3.40	3.44/3.62	3.33/3.57	3.26/3.49	3.33/3.63	3.27/3.50
Space cooling	Capacity	Pdesign			kW	24.1	31.3	38.7	45.7	58.8	65.3	74.8	89.8	95.8	108.9	115.0	133.4	144.7	154.6	171.9	187.0
	SEER					4.52	4.79	5.39	5.26	5.50	4.53	5.56	5.47	5.17	5.29	5.15	4.38	4.26	4.27	4.15	4.08
	ηs,c				%	177.8	188.6	212.5	207.0	217.1	178.1	219.4	215.8	203.7	208.6	203.0	172.1	167.2	167.6	162.8	160.2
Space heating (Average climate)	Capacity	Pdesign			kW	24.0	29.5	36.3	46.2	55.1	64.9	68.5	84.2	92.8	101.5	108.0	123.1	136.4	147.1	157.1	176.9
	SCOP/A					3.35	3.38	3.67	3.64	3.47	3.41	3.70	3.65	3.62	3.56	3.53	3.39	3.36	3.34	3.31	3.34
	ηs,h				%	131.0	132.2	143.6	142.7	135.6	133.5	145.2	143.0	141.6	139.3	138.3	132.5	131.4	130.8	129.5	130.6
Evaporator	Supply side	Air discharge direction				Frontal, Left				Bottom, Right, Left, Frontal											
		Fan	Air flow rate		m^3/h	4,500	5,800	7,500	9,000	11,000	13,000	14,500	16,500	18,000	19,800	21,600	25,000	26,500	28,000	30,500	31,500
			Nominal ESP		Pa	300															
	Return side - Supply side	Air intake direction - Air discharge direction				Rear				Right											
	Return side	Fan	Air flow rate		m^3/min	4,500	5,800	7,500	9,000	11,000	13,000	14,500	16,500	18,000	19,800	21,600	25,000	26,500	28,000	30,500	31,500
			Nominal ESP		Pa	300															
	Return side - Supply side	Thermodynamic heat recovery - Air discharge direction				Yes															
	Fresh air - Supply side	Standard - Air discharge direction				Yes															
	Fresh air	Ratio	Standard		%	30															
			In free cooling		%	100															
Condenser	Air flow rate	Cooling			m^3/h	15,725	16,038	16,374	16,341	31,183	32,203	35,774	37,285	36,195	38,143	36,865	70,704	72,395	67,733	70,200	72,005
	Refrigerant	GWP				675															
		Charge			kg	7.0	10.0	12.0	15.0	18.0		23.0	24.0	28.0	30.0	36.0	38.0		46.0	50.0	
Dimensions	Unit	Height			mm	1,924		2,374		1,924		2,374									
		Width			mm	2,250															
		Depth			mm	3,514				6,317							7,117				
Weight	Unit				kg	1,166	1,196	1,310	1,329	1,996	2,094	2,336	2,382	2,452	2,548	2,558	3,024	3,035	3,074	3,192	3,271
Casing	Colour					RAL 7035															
Sound pressure level	Cooling				dBA	63.9	66.0	68.0	67.3	69.0	68.1	72.6	68.7	69.9	70.6	74.2	68.3		68.7	69.1	70.0
Sound power level	Cooling				dBA	82.2	84.3	86.8	86.1	88.5	87.5	92.5	88.6	89.8	90.5	94.1	88.6		89.0	89.3	90.2
Operation range	Cooling	Min. ~ Max.			°CDB	-10 ~ 48															
	Heating	Min. ~ Max.			°CWB	-15 ~ 26															
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50 /400															
Current	Recommended fuses				A	25	40		50	63	80	100					160			200	

Specifications Made-To-Order units

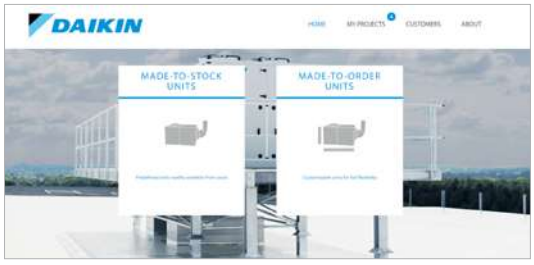




All naming in the tables above is valid for Made-To-Stock units only.

For specifications and configuration of Made-To-Order units refer to our selection software.

Select and configure your rooftop now!
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Field Applied **Accessories** For **Made-To-Stock** Units

		BASE series (UATYA-BBAY1)					FC2 series (UATYA-BFC2Y1)						FC3 series (UATYA-BFC3Y1)						
		25-30	40-50	60-70	80-120	140-190	25-30	40 - 50	60-70	80-90	100-120	140-190	25-30	40-50	60-70	80-100	110-120	140-180	190
Air treatment	Filter ISO Coarse 75% (G4)	2x UATYAC75A + 2x UATYAC75B (Standard for MTS)	3x UATYAC75A + 3x UATYAC75B (Standard for MTS)	6x UATYAC75B (Standard for MTS)	12x UATYAC75C (Standard for MTS)	12x UATYAC75C (Standard for MTS)	2x UATYAC75A + 2x UATYAC75B (Standard for MTS)	3x UATYAC75A + 3x UATYAC75B (Standard for MTS)	6x UATYAC75B (Standard for MTS)	12x UATYAC75C (Standard for MTS)	12x UATYAC75C (Standard for MTS)	12x UATYAC75C (Standard for MTS)	2x UATYAC75A + 2x UATYAC75B (Standard for MTS)	3x UATYAC75A + 3x UATYAC75B (Standard for MTS)	6x UATYAC75B (Standard for MTS)	12x UATYAC75C (Standard for MTS)	12x UATYAC75C (Standard for MTS)	12x UATYAC75C (Standard for MTS)	12x UATYAC75C (Standard for MTS)
	Filter ISO ePM10 50% (M5/F5)	2x UATYAEP-M1050A + 2x UATYAE-PM1050B	3x UATYAEP-M1050A + 3x UATYAE-PM1050B	3x UATYAEP-M1050B	12x UATYAEP-M1050C	12x UATYAEP-M1050C	2x UATYAEP-M1050A + 2x UATYAE-PM1050B	3x UATYAEP-M1050A + 3x UATYAE-PM1050B	3x UATYAEP-M1050B	12x UATYAEP-M1050C	12x UATYAEP-M1050C	12x UATYAEP-M1050C	2x UATYAEP-M1050A + 2x UATYAE-PM1050B	3x UATYAEP-M1050A + 3x UATYAE-PM1050B	3x UATYAEP-M1050B	12x UATYAEP-M1050C	12x UATYAEP-M1050C	12x UATYAEP-M1050C	12x UATYAEP-M1050C
	Filter ISO ePM10 75% (M6)	2x UATYAEPM-1075PA + 2x UATYAEP-M1075PB	3x UATYAEPM-1075PA + 3x UATYAEP-M1075PB	3x UATYAEP-M1075PB	12x UATYAEP-M1075PC	12x UATYAEP-M1075PC	2x UATYAEPM-1075PA + 2x UATYAEP-M1075PB	3x UATYAEPM-1075PA + 3x UATYAEP-M1075PB	3x UATYAEP-M1075PB	12x UATYAEP-M1075PC	12x UATYAEP-M1075PC	12x UATYAEP-M1075PC	2x UATYAEPM-1075PA + 2x UATYAEP-M1075PB	3x UATYAEPM-1075PA + 3x UATYAEP-M1075PB	3x UATYAEP-M1075PB	12x UATYAEP-M1075PC	12x UATYAEP-M1075PC	12x UATYAEP-M1075PC	12x UATYAEP-M1075PC
	Filter ISO ePM1 50% (F7)	2x UATYAEPM-150PA + 2x UATYAEP-M150PB	3x UATYAEPM-150PA + 3x UATYAEP-M150PB	3x UATYAEP-M150PB	12x UATYAEP-M150PC	12x UATYAEP-M150PC	2x UATYAEPM-150PA + 2x UATYAEP-M150PB	3x UATYAEPM-150PA + 3x UATYAEP-M150PB	3x UATYAEP-M150PB	12x UATYAEP-M150PC	12x UATYAEP-M150PC	12x UATYAEP-M150PC	2x UATYAEPM-150PA + 2x UATYAEP-M150PB	3x UATYAEPM-150PA + 3x UATYAEP-M150PB	3x UATYAEP-M150PB	12x UATYAEP-M150PC	12x UATYAEP-M150PC	12x UATYAEP-M150PC	12x UATYAEP-M150PC
	Rigid bag filter ISO ePM10 70% (M6)	2x UATYAEP-M1070A + 2x UATYAE-PM1070B	3x UATYAEP-M1070A + 3x UATYAE-PM1070B	6x UATYAEP-M1070B	12x UATYAEP-M1070C	12x UATYAEP-M1070C	2x UATYAEP-M1070A + 2x UATYAE-PM1070B	3x UATYAEP-M1070A + 3x UATYAE-PM1070B	6x UATYAEP-M1070B	12x UATYAEP-M1070C	12x UATYAEP-M1070C	12x UATYAEP-M1070C	2x UATYAEP-M1070A + 2x UATYAE-PM1070B	3x UATYAEP-M1070A + 3x UATYAE-PM1070B	6x UATYAEP-M1070B	12x UATYAEP-M1070C	12x UATYAEP-M1070C	12x UATYAEP-M1070C	12x UATYAEP-M1070C
	Rigid bag filter ISO ePM1 50% (F7)	2x UATYAEP-M150A + 2x UATYAE-PM150B	3x UATYAEP-M150A + 3x UATYAE-PM150B	6x UATYAEP-M150B	12x UATYAEP-M150C	12x UATYAEP-M150C	2x UATYAEP-M150A + 2x UATYAE-PM150B	3x UATYAEP-M150A + 3x UATYAE-PM150B	6x UATYAEP-M150B	12x UATYAEP-M150C	12x UATYAEP-M150C	12x UATYAEP-M150C	2x UATYAEP-M150A + 2x UATYAE-PM150B	3x UATYAEP-M150A + 3x UATYAE-PM150B	6x UATYAEP-M150B	12x UATYAEP-M150C	12x UATYAEP-M150C	12x UATYAEP-M150C	12x UATYAEP-M150C
	Rigid bag filter ISO ePM1 85% (F9)	2x UATYAEP-M185A + 2x UATYAE-PM185B	3x UATYAEP-M185A + 3x UATYAE-PM185B	6x UATYAEP-M185B	12x UATYAEP-M185C	12x UATYAEP-M185C	2x UATYAEP-M185A + 2x UATYAE-PM185B	3x UATYAEP-M185A + 3x UATYAE-PM185B	6x UATYAEP-M185B	12x UATYAEP-M185C	12x UATYAEP-M185C	12x UATYAEP-M185C	2x UATYAEP-M185A + 2x UATYAE-PM185B	3x UATYAEP-M185A + 3x UATYAE-PM185B	6x UATYAEP-M185B	12x UATYAEP-M185C	12x UATYAEP-M185C	12x UATYAEP-M185C	12x UATYAEP-M185C
Control	**UATYACO2P** - Duct air quality CO_2 probe	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	UATYACAP - Constant air pressure control airflow transducer	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	UATYAWRC - Remote touch screen wired remote controller	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	UATYARRP - Room temperature return probe (incl. housing)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	UATYASA - Fire and smoke alarm	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Other	Rainproof hood with anti-intrusion grille	not possible	not possible	not possible	not possible	not possible	UATYARPH3	UATYARPH4	UATYARPH5	UATYARPH6	UATYARPH6	UATYARPH6	UATYARPH1	UATYARPH2	UATYARPH8	UATYARPH7	UATYARPH7	UATYARPH7	UATYARPH7
	Rubber antivibration mounts	2x UATYAAVM1	2x UATYAAVM1	2x UATYAAVM1 + 1x UATYAAVM2	4x UATYAAVM1	2x UATYAAVM1 + 2x UATYAAVM2	2x UATYAAVM1	2x UATYAAVM1	3x UATYAAVM1 + 1x UATYAAVM2	4x UATYAAVM1	3x UATYAAVM1 + 1x UATYAAVM2	2x UATYAAVM1 + 2x UATYAAVM2	1x UATYAAVM1 + 1x UATYAAVM2	1x UATYAAVM1 + 2x UATYAAVM2	3x UATYAAVM1 + 1x UATYAAVM2	2x UATYAAVM1 + 2x UATYAAVM2	2x UATYAAVM1 + 2x UATYAAVM2	4x UATYAAVM1 + 1x UATYAAVM2	3x UATYAAVM1 + 2x UATYAAVM2
	Rubber antivibration mounts when gas heater is used	1x UATYAAVM1 + 1x UATYAAVM2	1x UATYAAVM1 + 1x UATYAAVM2	1x UATYAAVM1 + 2x UATYAAVM2	5x UATYAAVM1	5x UATYAAVM1	2x UATYAAVM1	1x UATYAAVM1 + 1x UATYAAVM2	4x UATYAAVM1	5x UATYAAVM1	5x UATYAAVM1	5x UATYAAVM1	1x UATYAAVM1 + 1x UATYAAVM2	2x UATYAAVM1 + 1x UATYAAVM2	4x UATYAAVM1	5x UATYAAVM1	4x UATYAAVM1 + 1x UATYAAVM2	3x UATYAAVM1 + 2x UATYAAVM2	3x UATYAAVM1 + 2x UATYAAVM2

Wide choice of factory-mounted **options** on **Made-To-Order** units

Indoor air treatment



- Filters and rigid bag filters
  - Multistage filtration possible
  - From ISO Coarse 75% (G4) up to ISO ePM1 85% (F9)



- Auxiliary heat sources for additional or complementary heating
  - Gas burner
  - Electric coil
  - Hot water coil

- Pre-heater from heat recovery water coil, to recover waste heat from applications where heat is rejected



- Steam humidifier and post-heating

- Oversized and extraoversized supply and return radial EC plug fans to provide a higher ESP



- Spring return dampers in case of power failure and/or fire alarm

Outdoor air treatment

- Anticorrosion treatment on heat exchanger

- Standard or EC axial fan

- Softstarter on compressor for units ≥ 140kW



- Soundproof compartment on compressor

Control options

- BMS gateway via Ethernet:
  - SNMP & Modbus TCP/IP (standard BACnet TCP/IP connection can not be used anymore)

- BMS gateway via 3-cable port:
  - BACnet MS/TP OR Lonworks (standard Modbus RS485 connection can not be used anymore)

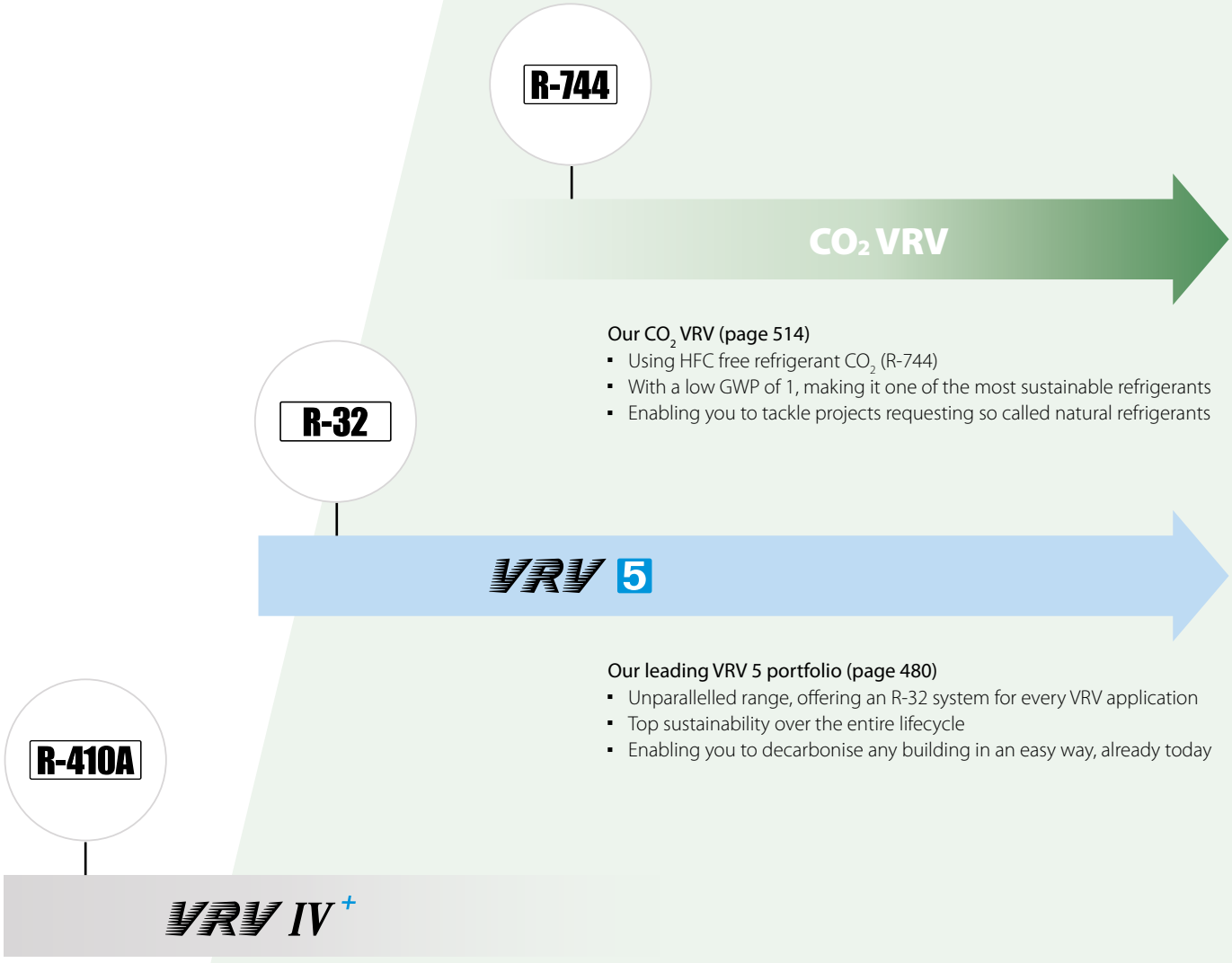
Field applied **accessories** for **Made-To-Order** units

		MTO - BASE series	MTO - FC2 series	MTO - FC3 series	MTO - RS4 series
Control	**UATYACO2P** - Duct air quality CO_2 probe	•	•	•	•
	UATYACAP - Constant air pressure control airflow transducer	•	•	•	•
	UATYAWRC - Remote touch screen wired remote controller	•	•	•	•
	UATYARRP - Room temperature return probe (incl. housing)	•	•	•	•
	UATYASA - Fire and smoke detector	•	•	•	•
Other	Rubber antivibration mounts	• (1)	• (1)	• (1)	• (1)
	Rainproof hood with anti-intrusion grille	• (1)	• (1)	• (1)	• (1)

(1) Reference code to be selected in selection software

Remain at the forefront of **the HVAC market** with Daikin VRV

Offering flexible, easy to install heat pumps, supporting decarbonisation



Our CO_2 VRV (page 514)

- Using HFC free refrigerant CO_2 (R-744)
- With a low GWP of 1, making it one of the most sustainable refrigerants
- Enabling you to tackle projects requesting so called natural refrigerants

Our leading VRV 5 portfolio (page 480)

- Unparallelled range, offering an R-32 system for every VRV application
- Top sustainability over the entire lifecycle
- Enabling you to decarbonise any building in an easy way, already today

VRV

Commercial air-to-air heat pumps

Benefits of VRV systems 476

VRV 5, our leading portfolio to decarbonise buildings now VRV 5 480

Outdoor units 485

- Heat recovery 488
  - REYA-A9 NEW 488
  - BS-A14AV1B9 NEW 490
- Heat pump 492
  - RXYA-A NEW 492
  - RXYSA-AV1/AY1/A NEW 494
  - SV-A 495

Indoor units 496

- Ceiling mounted cassette units 500
  - FXFA-A 501
  - FXZA-A 502
  - FXKA-A NEW 503
- Concealed ceiling units 504
  - Auto cleaning filter 504
  - FXDA-A 505
  - FXSA-A 506
  - FXMA-A 507
- Wall mounted 508
  - FXAA-A 508
- Ceiling suspended units 509
  - FXHA-A 509
  - FXUA-A UNIQUE 510
- Floor standing units 511
  - FXNA-A NEW 511
- Biddle air curtains 512
  - CYA NEW 513

CO_2 VRV the low GWP solution CO_2 VRV 514

Outdoor units 516

- RXYN-B NEW 517

Indoor units 518

- FXFN-B NEW 518
- FXSN-B NEW 519

VRV IV LOOP BY DAIKIN 520

- Replacement technology 522
- Water-cooled series 526
- Cold climate series 530
- Invisible series 532
- Domestic Hot Water Series 534
- Aesthetics series 540
- VRV IV indoor units 541

Options & accessories 552

Benefits of VRV systems



VRV systems offer buildings maximum design flexibility, low running costs and high comfort thanks to the advantages of direct expansion (DX) systems:

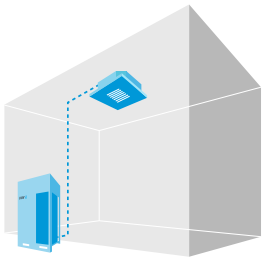
More responsive

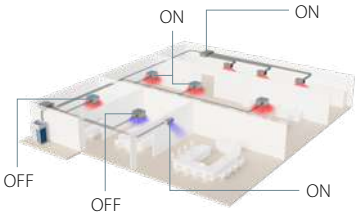
- **Immediate reaction** to changing conditions helps avoid overheating
- **Highly efficient:** Only 2 energy transfer steps are needed (from air to refrigerant, and from refrigerant to air)[1]



Quick and easy to install:

- **All-in-one box solution** without any requirement for field supplied equipment (e.g. gauges, pumps and valves)
- **Limited space requirements:** All components are integrated, and refrigerant piping is compact





Precise climate zone control:

- Only provide heating or cooling **where needed**
- **High comfort levels:** Individual control and simultaneous cooling and heating for perfect personal environment

Integrated building solution

- Including smart cloud controls, ventilation, …
- Fresh air solution with energy recovery, air purification, humidification and air discharge temperature control
- Smart central control and energy optimisation via the cloud





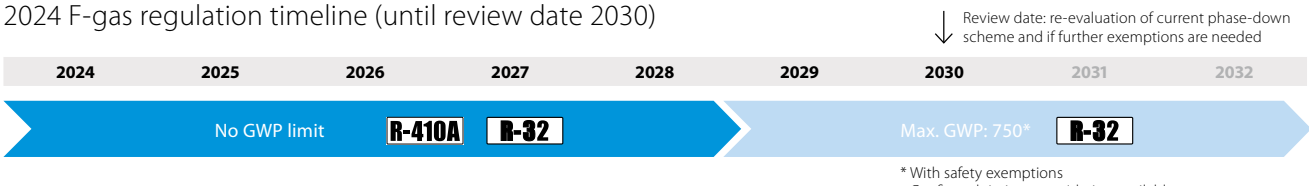




Ahead of the F-gas regulation

- All VRV 5 investments made are **fully future-proof** and the best answer to decarbonise buildings today!

2024 F-gas regulation timeline (until review date 2030)



* With safety exemptions
Confirmed timings considering available quota



Servicing of existing equipment remains possible for the entire lifetime of the products

VRV total solution

Typically, many buildings today rely on several separate systems for heating, cooling, air curtain heating and hot water. As a result energy is wasted. To provide a much more efficient alternative, VRV technology has evolved into ...

... a total solution managing up to

70%

of a buildings energy consumption giving large potential to cost saving.

Heating and cooling for year round comfort

Fresh air heat recovery ventilation for high quality environments

Controls for maximum operating efficiency

Air curtains for optimum air separation

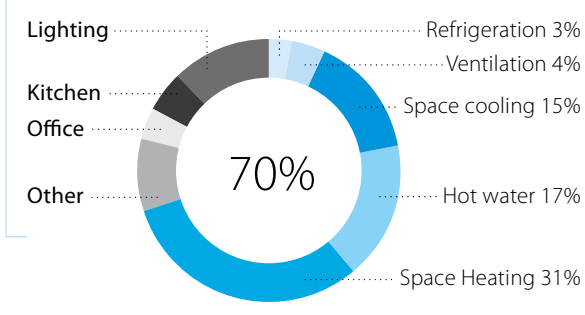
Efficient production of hot water

Underfloor heating/ cooling for efficient space heating/cooling

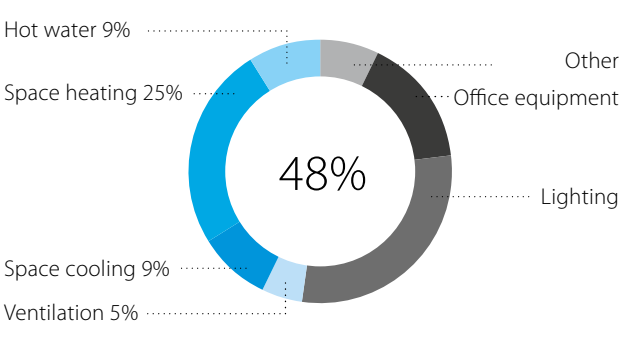
Cooling for server rooms, telecom shelters

Integrate third party equipment

Average hotel energy consumption



Average office energy consumption



Integrate third party equipment

9 reasons why VRV is unique in the market

1 Leader in decarbonisation

- VRV 5: Leading R-32 portfolio, offering the lowest carbon footprint today
- CO_2 VRV: The low GWP solution using R-744 (CO_2) refrigerant NEW
- L∞P by Daikin: Avoiding over 400,000 kg of virgin refrigerant being produced every year

VRV 5 CO_2 VRV

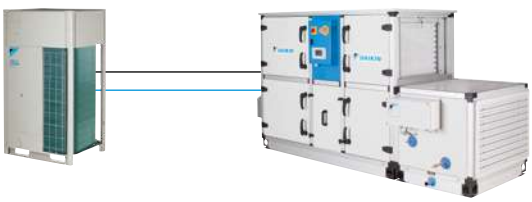
2 Efficiency

- Variable Refrigerant Temperature for top seasonal efficiency
- Round flow cassette and concealed ceiling units with auto cleaning filter
- The partner for your BREEAM, LEED or WELL project

BREEAM® LEED LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN

3 Comfort

- Provide high indoor air quality though seamless integration of VAM and AHU's (For R-32 and R-410A) NEW
- Variable Refrigerant Temperature preventing cold draughts thanks to high outblow temperatures
- True continuous heating preventing indoor temperature fluctuations / variations during defrost
- Presence and floor sensors direct the air flow away from persons, while ensuring an even temperature distribution
- UV Streamer kit purifies the air of pollutants such as viruses, bacteria, fine dust (PM1), odours, allergens, etc NEW



4 Reliability

- Refrigerant cooled PCB provides constant cooling, independent of outdoor air conditions
- Most extensive testing before new units leave the factory
- Widest sales network with all spare parts available in Europe
- Preventive maintenance via Daikin Cloud Plus
- Auto cleaning filters to further enhance reliability thanks to clean air-filters
- Dedicated technical cooling setting





5 Design

- Widest ever range of cassette panels
  - Available in white and black
  - Sleek designer panel range
- Daikin Emura, unique iconic design
- Fully flat cassette, seamlessly integrated in the ceiling



6 Controls

- Daikin Cloud Plus for online control, energy monitoring, comparison of multisite, diagnostic and optimisation of equipment and predictive maintenance
- Voice control via Amazon Alexa and Google Assistant through Onecta app (For VRV 5 models)
- Madoka: a sleek wired remote controller with intuitive touch button control
- Intelligent Touch manager: A cost-effective mini BMS integrating all Daikin products
- Easy integration in third party BMS via BACnet, LonWorks, Modbus, KNX



7 Installation

- Automatic refrigerant charge and refrigerant containment check
- Plug & play Daikin Air Handling Unit connection
- VRV configurator software for the fastest commissioning, configuration and customisation
- Outdoor unit display for quick on-site settings and detailed error readouts for improved customer support
- Limited space requirements for piping
- Selection software with floor plan integration, integrated with latest legal standards



Our WebXpress software with visual floorplan



7-segment display

8 Inventor of VRV with over 40 years of leadership

- Market leader of VRV systems since 1982
- Over 90 years of expertise in heat pump technology
- Designed for and produced in Europe
- Innovator setting the market standard with technologies such as Variable Refrigerant Temperature, Continuous Heating, Shîrudo technology, ...

VRV

Variable Refrigerant Temperature

9 A solution for every application

- Heat recovery for simultaneous cooling and heating
- Maximum flexibility for geothermal applications with water-cooled systems
- Hot and cold climate solutions offering efficient cooling up to 52°C and heating down to -25°C
- Space saving mini VRV solutions, offering the most compact VRV
- The invisible VRV, a unique solution when the outdoor unit must be compact and completely invisible
- Replacement solutions to replace existing systems in the most cost-effective way



The VRV air conditioning system is the world's first individual air conditioning system with variable refrigerant flow control and was commercialised by Daikin in 1982. VRV is the trademark of Daikin Industries Ltd, which is derived from the technology we call "variable refrigerant volume". BREEAM is a registered trademark of BRE (the Building Research Establishment Ltd. Community Trade Mark E5778551). The BREEAM marks, logos and symbols are the Copyright of BRE and are reproduced by permission. LEED® is the preeminent program for the design, construction, maintenance and operations of high-performance green buildings. LEED® and its related logo, is a trademark owned by the U.S. Green Building Council® and is used with permission.

Decarbonisation made easy



Top sustainability

- SCOP up to 200.5%
- SEER up to 324.5%
- Tested with real life indoor units

Market-leading seasonal efficiency

- The available EPD certification outlines the environmental impact of VRV 5 over its lifetime
- Ideal for green building certification

Full transparency of total life cycle impact

- 68% lower Global Warming Potential
- 15% less refrigerant charge
- Single component refrigerant
- Reduced frequency of F-gas tightness inspections

Reduced direct CO_2 impact by 71% compared to R-410A systems

For detailed information on the specifications of a particular range, please consult the product pages in this catalog.

A VRV 5 system for every VRV application

- Unparallelled outdoor unit range
- 4 different ranges
- Capacity from 12.1 up to 87.5 kW

12.1kW ⟷ 78.5kW

14.2kW ⟷ 87.5kW



VRV 5 S-series | VRV 5 Heat Recovery | VRV 5 Heat Pump

Versatile

Wide operation range

- Down to -20°C in heating
- Up to +52°C in cooling

Wide piping flexibility to tackle any VRV application

- 165m longest length
- 90m height difference
- 1,000m total length
- Compatible with Tightfit, fireless copper pipe connector

5 low sound steps

- Sound pressure down to 39 dB(A)
- Increased installation space flexibility
- Easier project design
- Meet local noise regulation requirements out-of-the-box

Continuous heating during defrost

- Ideal for monovalent heating
- Available on all multi combination models



Unique Shîrudo Technology provides full peace of mind out of the box

- No need for complex calculations to select safety measures
- No additional installation and commissioning work
- No visual impact of additional sensors etc.
- No additional work and considerations in case of layout changes
- No periodic safety checks

Check out the Shîrudo Technology video!

What is included in Shîrudo Technology?

- **Complete peace of mind** as all refrigerant control measures are factory-integrated, ensuring compliance to the IEC60335-2-40 product standard, 3rd party certified by a Notified Body

Leak detection sensor in every indoor unit

Audible & visual alarm in Madoka controller

Shutoff valves in the outdoor unit or SV box

Specially developed algorithms

- Full **validation** of your project via our Xpress software

Widest R-32 portfolio

Match any application

Widest range of dedicated R-32 indoor units on the market

- Meet any comfort and aesthetical demand
- 11 unit models in 96 variations
- Capacities from 1.1 kW in cooling, up to 31.5 kW in heating
- Factory integrated safety measures for complete peace of mind



Easily integrates fresh air units

- Plug & play ventilation solutions from 150 up to 140,000 m^3/h
- For indoor (in-ceiling or floor) and outdoor installation
- Wide choice of filtration options to optimise IAQ
- Offers different energy recovery, air purification, humidification and air discharge temperature control options



Connectable to all Daikin smart controls

Daikin Cloud Plus

- Smart centralised control & energy optimisation
- Predictive maintenance indicates when maintenance or replacements are needed
- Remote site access enables to optimise and monitor the system without the need for an on-site visit

Onecta app

- Intuitive control, no matter where you are

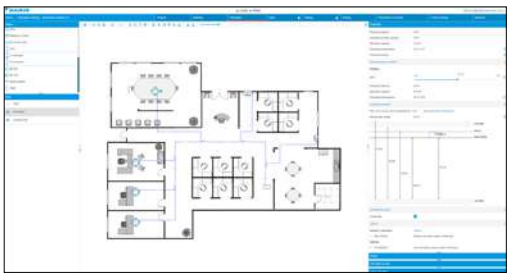


Excellent support

Wide network of experts with specialised advice

Maximise your BREAAM/LEED score with expert support from design to execution

Our WebXpress software with visual floorplan interface makes design easy and ensures compliance with product standards





Daikin Europe Research and Development Center - 11,000m² Testing facilities & 10,200m² office space.

VRV 5 R-32 BLUEVOLUTION

Capacity class (kW)

	Model		Product name		4	5	6	8	10	12	13	14	16	18	20	22	24	26	28	VRV indoor units	HRV units VAM	HRV units EKVDX	AHU connection	Air curtains	Remarks
	Cooling Capacity							22.4	28.0	33.5	36.4	40.0	45.0	50.4	56.0	61.5	67.4	73.5	78.5						
	Heating Capacity							25.0	31.5	37.5	41.0	45.0	50.0	56.5	63.0	69.0	75.0	82.5	87.5						
Air-cooled heat recovery	**NEW VRV 5 heat recovery**	▪ Reduced CO_2 equivalent thanks to the use of lower GWP refrigerant R-32 ▪ Top sustainability over the entire lifecycle ▪ ‚Free' heating through heat recovery ▪ Tackle small room applications thanks to Shirudo Technology ▪ The perfect personal comfort thanks to simultaneous cooling and heating	REYA-A9					●	●	●	○	●	●	●	●	○	○	○	○	○	○	○	NEW ○	NEW ○	
Air-cooled heat pump	**NEW VRV 5 heat pump**	▪ Reduced CO_2 equivalent thanks to the use of lower GWP refrigerant R-32 ▪ Top sustainability over the entire lifecycle ▪ Tackle any room thanks to Shirudo Technology	RXYA-A					●	●	●	○	●	●	●	●						○	○	○	NEW ○	NEW ○	
	VRV 5 S-series	▪ Reduced CO_2 equivalent thanks to the use of lower GWP refrigerant R-32 ▪ Top sustainability over the entire lifecycle ▪ Unique low -height single fan range ▪ Tackle small room applications thanks to Shirudo technology	RXYSA-AV1/AY1/A	1~	●	●	●													○	○	○	NEW ○	NEW ○	▪ Standard total system connection ratio limit: 50 ~ 130%
				3~	●	●	●	NEW ●	NEW ●	NEW ●															

● Single unit, ○ Multi combination

Decarbonisation in practice

Learn how Daikin experts assist customers to reach their sustainability and comfort targets, while staying in budget

"A landmark project meeting the highest standards, the Meylan Arteparc sets the bar for designing future-proof buildings that consistently deliver on *energy performance and comfort*"



Arteparc office complex

Daikin VRV heat pumps contribute to low carbon footprint and is awarded with the HQE excellent label



Location: Grenoble, France
Type: New built, commercial complex
Project size: 25,000m^2
Total outdoor units: 115

Challenges:

- Achieve HQE BBC (Low Carbon Building) certification label
- Provide an HVAC system to offset the increased CO_2 emissions, caused by additional use of concrete

Daikin solution:

- **Close co-operation** between design office and Daikin design support
- In-depth study to **optimise the air flows** of the full installation to maximise system performance and user experience
- Daikin's VRV 5 with R-32 was crucial to support the required offsetting of CO_2, with a **whole life carbon reduction of 27%** compared to R-410A solutions



"Daikin offers 24/7 monitoring with predictive maintenance for *complete peace-of-mind*. Issues are solved before they occur, maximising room availability and customer satisfaction."

Victoria hotel, Park Plaza

Location: Amsterdam, The Netherlands
Type: Refurbishment, Hotel
Project size: 7 floors, 150 rooms, 25m²/room
Total outdoor units: 12

Challenges:

- Provide a future proof, low carbon solution
- Keep historical building exterior intact
- Provide total peace of mind

Daikin solution:

- Implementation of **VRV 5 heat recovery**, using lower GWP refrigerant R-32 boosting efficiency thanks to the re-use of excessive heat from rooms in cooling, to heat up rooms in need of heating
- The **modular and compact** concept of VRV outdoor units and very small piping made it the best solution to keep the historical value of the building.
- With **Shîrudo Technology** all legislative requirements are factory integrated, keeping additional design work to a minimum



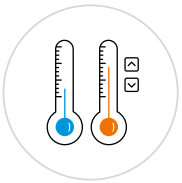
VRV 5 Heat Recovery

Top efficiency and comfort solution

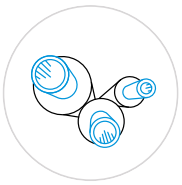
- Reduced CO_2 equivalent thanks to the use of lower GWP R-32 refrigerant and lower refrigerant charge
- Single component refrigerant, easy to re-use and recycle
- Greatest sustainability over the entire lifecycle, thanks to market leading real-life seasonal efficiency
- "Free" heat through efficient 3-pipe heat recovery, transferring heat from areas requiring cooling to areas requiring heating and vice versa
- Tackle any room application, thanks to Shîrudo technology
- Specially designed indoor units for R-32, ensuring low sound and maximum efficiency
- Simultaneous cooling and heating for the perfect personal comfort of guests/tenants
- Continuous heating during defrost for multi models
- Maximum installation flexibility with piping lengths up to 165 meters and a total length of 1,000 meters
- Sound pressure down to 40 dB(A) thanks to 5 low sound steps
- ESP up to 78 Pa to allow ducting
- Wide operation range of up to +46°C in cooling and down to -20°C in heating
- Incorporates VRV IV+ standards & technologies: Variable Refrigerant Temperature, continuous heating, 7 segment display and full inverter compressors, 4-side heat exchanger, refrigerant cooled PCB, new DC fan motor



"Free" heating through heat recovery



Simultaneous cooling & heating for maximum comfort



3-pipe technology: up to 15% more efficient compared to 2-pipe system

Compatible to IEC60335-2-40 Ed.7, allowing even more flexible system design!



Environmental product declaration available

REYA-A9

Single Unit systems				REYA	8A9	10A9	12A9	14A9	16A9	18A9	20A9
Capacity range				HP	8	10	12	14	16	18	20
Cooling capacity	Prated,c			kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0
Heating capacity	Prated,h			kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0
	Max.	6°CWB		kW	25.0	31.5	37.5	45.0	50.0	56.5	63.0
Recommended combination					4 x FXFA50A2VEB	4 x FXFA63A2VEB	6 x FXFA50A2VEB	1 x FXFA50A2VEB + 5 x FXFA63A2VEB	4 x FXFA63A2VEB + 2 x FXFA80A2VEB	3 x FXFA50A2VEB + 5 x FXFA63A2VEB	8 x FXFA63A2VEB
ηs,c				%	290.8	282.6	285.3	306.1	281.0	280.6	262.2
ηs,h				%	161.5	170.2	176.4	168.3	167.5	172.5	162.7
SEER					7.35	7.14	7.21	7.73	7.10	7.09	6.63
SCOP					4.11	4.33	4.49	4.28	4.26	4.39	4.14
Maximum number of connectable indoor units					64						
Indoor index connection	Min.				100	125	150	175	200	225	250
	Max.				260	325	390	455	520	585	650
Dimensions	Unit	HeightxWidthxDepth		mm	1,685x930x765			1,685x1,240x765			
Weight	Unit			kg	213			296		319	
Sound power level	Cooling	Nom.		dBA	78.3	78.8	82.5	78.7	83.7	83.4	87.9
Sound pressure level	Cooling	Nom.		dBA	56.3	58.0	60.8	58.1	61.4	63.0	67.0
Operation range	Cooling	Min.~Max.		°CDB	-5~46						
	Heating	Min.~Max.		°CWB	-20~16						
Refrigerant	Type/GWP				R-32/675.0						
	Charge			kg/TCO$_2$Eq	9.00/6.08			10.6/7.16			
Piping connections	Liquid	OD		mm	9.52		12.7				
	Gas	OD		mm	19.1		22.2				28.6
	HP/LP gas	OD		mm	15.9		19.1				22.2
	Total piping length	System	Actual	m	1,000						
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415						
Current - 50Hz	Maximum fuse amps (MFA)			A	20	25	32		40		50

Completely redesigned BSSV boxes for faster installation and easier servicing





REYA8-12A9

Multi Unit systems				REYA	10A9	13A9	16A9	18A9	20A9	22A9	24A9	26A9	28A9
System	Outdoor unit module 1				REMA5A9			REYA8A9		REYA10A9	REYA8A9	REYA12A9	
	Outdoor unit module 2				REMA5A9	REYA8A9		REYA10A9	REYA12A9		REYA16A9	REYA14A9	REYA16A9
Capacity range				HP	10	13	16	18	20	22	24	26	28
Cooling capacity	Prated,c			kW	28.0	36.4	44.8	50.4	55.9	61.5	67.4	73.5	78.5
Heating capacity	Prated,h			kW	28.0	36.4	44.8	50.4	55.9	61.5	67.4	73.5	78.5
	Max.	6°CWB		kW	32.0	41.0	50.0	56.5	62.5	69.0	75.0	82.5	87.5
Recommended combination					4 x FXFA63A2VEB	3 x FXFA50A2VEB + 3 x FXFA63A2VEB	4 x FXFA63A2VEB + 2 x FXFA80A2VEB	4 x FXFA50A2VEB + 4 x FXFA63A2VEB	10 x FXFA50A2VEB	6 x FXFA50A2VEB + 4 x FXFA63A2VEB	4 x FXFA50A2VEB + 4 x FXFA63A2VEB + 2 x FXFA80A2VEB	7 x FXFA50A2VEB + 5 x FXFA63A2VEB	6 x FXFA50A2VEB + 4 x FXFA63A2VEB + 2 x FXFA80A2VEB
ηs,c				%	301.9	296.5	293.0	287.5	287.6	283.6	283.4	296.2	282.8
ηs,h				%	160.6	161.5	170.9	170.5	172.2	173.3	165.2	172.0	171.5
SEER					7.62	7.49	7.40	7.26	7.27	7.17	7.16	7.48	7.15
SCOP					4.09	4.11	4.35	4.34	4.38	4.41	4.20	4.38	4.36
Maximum number of connectable indoor units					64								
Indoor index connection	Min.				125	163	200	225	250	275	300	325	350
	Max.				325	423	520	585	650	715	780	845	910
Piping connections	Liquid	OD		mm	9.52	12.7						15.9	
	Gas	OD		mm	19.1	22.2			28.6				
	HP/LP gas	OD		mm	15.90	19.10			22.20				
	Total piping length	System	Actual	m	500					1,000			
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415								
Current - 50Hz	Maximum fuse amps (MFA)			A	40			50		63			

Outdoor unit module				REMA	5A9
Dimensions	Unit	HeightxWidthxDepth		mm	1,685x930x765
Weight	Unit			kg	213
Fan	External static pressure	Max.		Pa	78
Sound power level	Cooling	Nom.		dBA	78.3
Sound pressure level	Cooling	Nom.		dBA	56.3
Operation range	Cooling	Min.~Max.		°CDB	-5~46
	Heating	Min.~Max.		°CWB	-20~16
Refrigerant	Type/GWP				R-32/675.0
	Charge			kg	9.00/6.08
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415
Current - 50Hz	Maximum fuse amps (MFA)			A	20

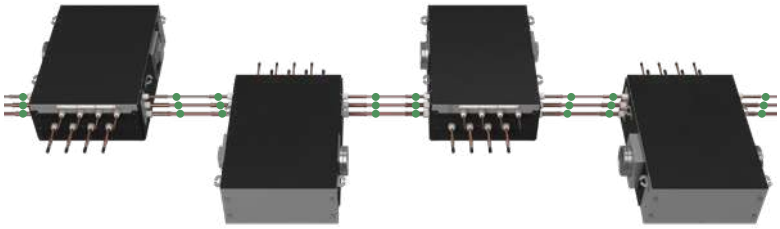
Cooling capacity: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0m | Heating capacity: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m | Actual number of connectable indoor units depends on the indoor unit type and the connection ratio restriction for the system (50% ≤ CR ≤ 130%) | Contains fluorinated greenhouse gases

NEW BS-A14AV1B9

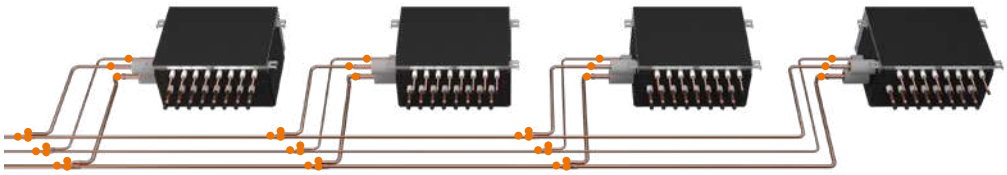
Multi branch selector (BSSV) - for VRV 5 Heat Recovery

Completely redesigned for faster installation and easier servicing

Easy installation thanks to fewer brazing points

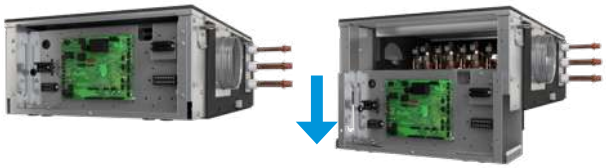


VRV 5: only 24 brazings point and no joint kits

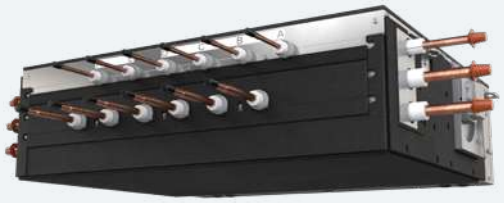


VRV IV+: 39 brazing points and 3 joint kits

Easy servicing in false ceillings thanks to sliding down PCB



- Unique range of multi BS boxes allowing efficient 3-pipe heat recovery
- NEW No limitation on room size, thanks to Shîrudo Technology (1)
- Continued operation in case of a leak: only the specific branch is closed, maintaining full operation of the system
- NEW Faster installation thanks to Refrigerant Flow Through reducing the number of brazing points and joint kits
- NEW Easy servicing in false ceilings thanks to sliding down PCB
- NEW Limited ceiling void required
- NEW Quick on-site settings, indication of service parameters and easy read out of errors thanks to 7 segment display
- Up to 16kW capacity available per port
- Connect up to 250 class unit (28kW) by combining 2 ports
- No limit on unused ports allowing phased installation
- Faster installation thanks to open port connection
- Allows multi tenant applications



BS6A14AV1B9

Compatible to IEC60335-2-40 Ed.7, allowing even more flexible system design and reducing the box weight!

BS-A14AV1B9

Branch selector				BS	4A14AV1B9	6A14AV1B9	8A14AV1B9	10A14AV1B9	12A14AV1B9
Maximum number of connectable indoor units					20	30	40	50	60
Maximum number of connectable indoor units per branch					5				
Number of branches					4	6	8	10	12
Maximum capacity index of connectable indoor units					400	600	750		
Maximum capacity index of connectable indoor units per branch					140 (250 if 2 ports are combined)				
Dimensions	Unit	HeightxWidthxDepth		mm	291x600x845	291x1,000x845		291x1,400x845	
Weight	Unit			kg	39	55	64	81	87
Casing	Material				Galvanised steel plate				
Piping connections	Outdoor unit or Refrigerant Flow Through	Liquid	Type		Brazing connection				
			OD	mm	9.52/12.7/15.9				
		Gas	Type		Brazing connection				
			OD	mm	15.9/19.1/22.2/28.6				
		Discharge gas	Type		Brazing connection				
			OD	mm	12.7/15.9/19.1/22.2				
	Indoor unit	Liquid	Type		Brazing connection				
			OD	mm	6.35/9.52				
		Gas	Type		Brazing connection				
			OD	mm	9.52/12.7/15.9				
	Drain				VP20 (I.D. 20/O.D. 26)				
Units connected in Refrigerant Flow Through	Maximum allowed amount of BS units				4				
	Maximum total number of ports of BS units				16				
	Maximum total capacity index of indoor unit				750				
Sound absorbing thermal insulation					Urethane foam, polyethylene foam				
System safety requirements	Duct connection diameter on unit			mm	160.0				
	Duct connection positions				Left/Right				
Power supply	Phase				1~				
	Frequency			Hz	50				
	Voltage			V	220-440				
	Maximum fuse amps (MFA)			A	15				

Contains fluorinated greenhouse gases | (1) Refer to Xpress selection software to ensure compliance to specific product standard.

VRV 5 Heat Pump

Daikin's solution for comfort & low energy consumption

- Reduced CO_2 equivalent thanks to the use of lower GWP R-32 refrigerant and lower refrigerant charge
- Single component refrigerant, easy to re-use and recycle
- Greatest sustainability over the entire lifecycle, thanks to market leading real-life seasonal efficiency
- Tackle small room applications without any additional measures, thanks to Shîrudo Technology
- Specially designed indoor units for R-32, ensuring low sound and maximum efficiency
- Continuous heating during defrost for multi models
- Like for like R-410A installation flexibility with piping lengths up to 165 meters and a total length of 1,000 meters
- Sound pressure down to 40 dB(A) thanks to 5 low sound steps
- ESP up to 78 Pa to allow ducting
- Wide operation range of up to +46°C in cooling and down to -20°C in heating
- Incorporates VRV standards & technologies: Variable Refrigerant Temperature, continuous heating, 7 segment display and full inverter compressors, 4-side heat exchanger, refrigerant cooled PCB



Wide piping flexibility to tackle any VRV application



5 low sound steps

Flexibility to take care of every room



Environmental product declaration available

RXYA-A

Single Unit systems				RXYA	8A	10A	12A	14A	16A	18A	20A
Capacity range				HP	8	10	12	14	16	18	20
Cooling capacity	Prated,c			kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0
Heating capacity	Prated,h			kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0
	Max.	6°CWB		kW	25.0	31.5	37.5	45.0	50.0	56.5	63.0
Recommended combination					4 x FXFA50A2VEB	4 x FXFA63A2VEB	6 x FXFA50A2VEB	1 x FXFA50A2VEB + 5 x FXFA63A2VEB	4 x FXFA63A2VEB + 2 x FXFA80A2VEB	3 x FXFA50A2VEB + 5 x FXFA63A2VEB	8 x FXFA63A2VEB
ηs,c				%	287.3	279.3	278.7	302.2	276.6	271.6	257.6
ηs,h				%	161.5	170.2	176.4	168.3	167.5	172.5	162.7
SEER					7.26	7.06	7.04	7.63	6.99	6.87	6.52
SCOP					4.11	4.33	4.49	4.28	4.26	4.39	4.14
Maximum number of connectable indoor units					64 (1)						
Indoor index connection	Min.				100	125	150	175	200	225	250
	Nom.				-						
	Max.				260	325	390	455	520	585	650
Dimensions	Unit	HeightxWidthxDepth		mm	1,685 x930 x765			1,685 x1,240 x765			
Weight	Unit			kg	214			297		320	
Sound power level	Cooling	Nom.		dBA	78.3	78.8	82.5	79.5	83.7	83.4	87.9
Sound pressure level	Cooling	Nom.		dBA	56.3	58.0	60.8	59.0	61.6	63.0	67.0
Operation range	Cooling	Min.~Max.		°CDB	-5 ~46						
	Heating	Min.~Max.		°CWB	-20 ~16						
Refrigerant	Type/GWP				R-32/675.0						
	Charge			kg/tCO2Eq	9.00/6.08			10.6/7.16			
Piping connections	Liquid	OD		mm	9.52		12.70				
	Gas	OD		mm	19.1		22.2		28.6		
	Total piping length	System	Actual	m	1,000 (6)						
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415						
Current - 50Hz	Maximum fuse amps (MFA)			A	20	25	32		40		50



RXYA8-12A

Multi Unit systems				RXYA	10A	13A	16A	18A	20A
System	Outdoor unit module 1				RYMA5A			RXYA8A	
	Outdoor unit module 2				RYMA5A	RXYA8A		RXYA10A	RXYA12A
Capacity range				HP	10	13	16	18	20
Cooling capacity	Prated,c			kW	28.0	36.4	44.8	50.4	55.9
Heating capacity	Prated,h			kW	28.0	36.4	44.8	50.4	55.9
	Max.	6°CWB		kW	32.0	41.0	50.0	56.5	62.5
Recommended combination					4 x FXFA63A2VEB	3 x FXFA50A2VEB + 3 x FXFA63A2VEB	4 x FXFA63A2VEB + 2 x FXFA80A2VEB	4 x FXFA50A2VEB + 4 x FXFA63A2VEB	10 x FXFA50A2VEB
ηs,c				%	299.1	293.8	281.9	284.1	283.2
ηs,h				%	160.6	161.5	170.9	170.5	172.2
SEER					7.55	7.42	7.12	7.18	7.16
SCOP					4.09	4.11	4.35	4.34	4.38
Maximum number of connectable indoor units					64 (1)				
Indoor index connection	Min.				125	163	200	225	250
	Nom.				-				
	Max.				325	423	520	585	650
Sound power level	Cooling	Nom.		dBA	81.3			81.6	83.9
	Heating	Nom.		dBA	82.4			83.1	84.8
Sound pressure level	Cooling	Nom.		dBA	59.3			60.2	62.1
Piping connections	Liquid	OD		mm	9.50	12.70			
	Gas	OD		mm	19.1	22.2	28.6		
	Equalizing	OD		mm	19.1				
	Total piping length	System	Actual	m	500				
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415				
Current - 50Hz	Maximum fuse amps (MFA)			A	40			50	

Outdoor unit module				RYMA	5A
Dimensions	Unit	HeightxWidthxDepth		mm	1,685 x930 x765
Weight	Unit			kg	214
Fan	External static pressure	Max.		Pa	78
Sound power level	Cooling	Nom.		dBA	78.3
Sound pressure level	Cooling	Nom.		dBA	56.3
Operation range	Cooling	Min.~Max.		°CDB	-5 ~46
	Heating	Min.~Max.		°CWB	-20 ~16
Refrigerant	Type/GWP				R-32/675.0
	Charge			kg/tCO2Eq	9.00/6.08
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415
Current - 50Hz	Maximum fuse amps (MFA)			A	20

(1)The actual number of units depends on the connection ratio (CR) and the restrictions for the system. | Cooling capacity: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0m | Heating capacity: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m | Contains fluorinated greenhouse gases'.

VRV 5 S-series

Lower CO_2 equivalent and market-leading flexibility

- Reduced CO_2 equivalent thanks to the use of lower GWP R-32 refrigerant and lower refrigerant charge
- Top sustainability over the entire lifecycle, thanks to market leading real-life seasonal efficiency
- Low-height single fan range
- Easy to transport thanks to lightweight and compact design
- Wide access area to easily reach all key components
- Tackle small room applications without any additional measures, thanks to Shîrudo technology
- Specially designed indoor units for R-32, ensuring low sound and maximum efficiency



RXYSA-AV1_AY1

5 low sound steps

Flexibility to take care of every room


Environmental product declaration available

RXYSA-AV1 RXYSA-AY1 RXYSA-A

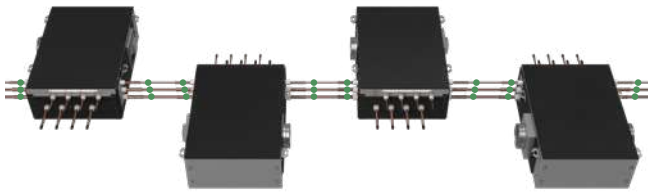
Outdoor unit			RXYSA	4AV1	5AV1	6AV1	4AY1	5AY1	6AY1	NEW 8A	NEW 10A	NEW 12A
Capacity range			HP	4	5	6	4	5	6	8	10	12
Cooling capacity	Prated,c		kW	12.1	14.0	15.5	12.1	14.0	15.5	22.4	28.0	33.5
Heating capacity	Prated, h		kW	12.1	14.0	15.5	12.1	14.0	15.5	22.4	28.0	33.5
	Max.		kW	14.2	16.0	18.0	14.2	16.0	18.0	25.0	31.5	37.5
Recommended combination				3x FXSA25A2VEB + 1x FXSA32A2VEB	4x FXSA32A2VEB	2x FXSA32A2VEB + 2x FXSA40A2VEB	3x FXSA25A2VEB + 1x FXSA32A2VEB	4x FXSA32A2VEB	2x FXSA32A2VEB + 2x FXSA40A2VEB	4x FXSA50A2VEB	4x FXSA63A2VEB	6x FXSA50A2VEB
SEER				8.2	7.7	7.6	7.9	7.4	7.3	6.4	6.9	6.5
SCOP				5.1	4.7		4.9	4.5		4.4		4.6
ηs,c			%	324.5	306.1	301.0	312.5	294.8	289.9	251.4	274.2	255.8
ηs,h			%	200.5	185.7	183.6	193.1	178.8	176.8	173.8		182.6
Dimensions	HxWxD		mm	869x1,100x460						1,430x940x320	1,615x940x460	
Weight			kg	102						144	180	
Sound power level	Cooling		dB(A)	67.0	68.1	69.0	67.0	68.1	69.0	73.2	74.0	76.1
	Heating		dB(A)	69.0	70.0	71.0	69.0	70.0	71.0	73.5	74.0	76.0
Sound pressure level	Cooling		dB(A)	49.0	51.0		49.0	51.0		58.1	57.0	60.0
Operation range	Cooling	Min °C	°CDB	-5 ~ 46						-5 ~ 52		
	Heating	Max °C	°CWB	-20 ~ 16						-20 ~ 15.5		
Refrigerant	Type/GWP			R-32/675.0						R-32/675.0		
	Charge	tCO2eq/kg	kg	3.40/2.30						5.2/3.51	7/4.73	7.1/4.79
Piping connections	Liquid OD		mm	9.52						9.5		12.7
	Gas OD		mm	15.9						19.1		22.2
	H/P/LP gas OD		mm									
	Tot. pip. length	Sys. actual	m	300						300		
Power supply	Phase/Freq./ Voltage		Hz/V	1~/50/220-240			3N~/50/380-415			3N~/50/380-415		
Current - 50Hz	Max. fuse amps (MFA)		A	32			16			25		32

Cooling capacity: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0m | Heating capacity: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m

Optional Shut off valve box (SV)

To tackle even the most stringent applications in a future proof way

- For the vast majority of applications no SV box is needed to tackle the IEC requirements.
- In case of very small rooms an optional SV box ensures compliance to IEC60335-2-40 for any room.
- Continued operation in case of a leak: only the specific branch is closed, maintaining full operation of the system
- Fast installation thanks to Refrigerant Flow through reducing the number of brazing points and joint kits



- Easy servicing in false ceilings thanks to sliding down PCB



- Limited ceiling void required
- Connect up to 250 class unit (28kW) to 1-port SV box or by combining 2 ports on multi SV box



SV4A14A



SV-A

Combination table

	RXYSA8-10-12A	RXYA-A
SV1A25A	•	•
SV4A14A	•	•
SV6A14A	•	•
SV8A14A	•	•

Shut off valve box					SV1A25A	SV*A14A		
Maximum number of connectable indoor units					5	20	30	40
Maximum number of connectable indoor units per branch					5			
Number of branches					1	4	6	8
Maximum capacity index of connectable indoor units					250	400	600	650
Maximum capacity index of connectable indoor units per branch					250	140		
Dimensions	Unit	HeightxWidthxDepth		mm	291x600x845		291x1,000x845	
Piping connections	Outdoor unit or Refrigerant Flow Through	Liquid	Type		Brazing connection			
			OD	mm	9.52, 12.7, 15.9			
		Gas	Type		Brazing connection			
			OD	mm	15.9, 19.1, 22.2, 28.6			
	Indoor unit	Liquid	Type		Brazing connection			
			OD	mm	6.35, 9.52			
		Gas	Type		Brazing connection			
			OD	mm	9.52, 12.7, 15.9			
	Drain				VP20 (I.D. 20/O.D. 26)			
Units connected in Refrigerant Flow Through	Maximum allowed amount of BS/SV units				4			
	Maximum total number of ports of BS/SV units				16			
	Maximum total capacity index of indoor unit				650			
Sound absorbing thermal insulation					Polyethylene foam			
System safety requirements	Duct connection diameter on unit			mm	160.0			
	Duct connection positions				Left/Right			
Power supply	Phase				1~			
	Frequency			Hz	50			
	Voltage			V	220-440			
	Maximum fuse amps (MFA)			A	6			

Contains fluorinated greenhouse gases

VRV 5 BLUEVOLUTION

VRV 5 indoor unit overview

Capacity class (kW)

Type	Model		Product name	10	15	20	25	32	40	50	63	71	80	100	125	140	200	250
Ceiling mounted cassette	UNIQUE Round flow cassette	**360° air discharge for optimum efficiency and comfort** ▪ Auto cleaning function ensures high efficiency ▪ Intelligent sensors save energy and maximise comfort ▪ Flexibility to suit every room layout ▪ Lowest installation height in the market! ▪ Widest choice ever in decoration panel designs and colors	FXFA-A			•	•	•	•	•	•			•	•	•			
	UNIQUE Fully flat cassette	**Unique design that integrates fully flat into the ceiling** ▪ Perfect integration in standard architectural ceiling tiles ▪ Blend of iconic design and engineering excellence ▪ Intelligent sensors save energy and maximise comfort ▪ Small capacity unit developed for small or well-insulated rooms ▪ Flexibility to suit every room layout	FXZA-A		•	•	•	•	•	•									
	NEW 1-way blow cassette	**1-way blow unit for corner installation** ▪ Compact dimensions enable installation in narrow ceiling voids ▪ Flexible installation thanks to different air discharge options ▪ New modern decoration panel	FXKA-A			•	•	•	•	•	•								
Concealed ceiling	Slim concealed ceiling unit	**Slim design for flexible installation** ▪ Compact dimensions enable installation in narrow ceiling voids ▪ Medium external static pressure up to 44Pa ▪ Only grilles are visible ▪ Small capacity unit developted for small of well-insulated rooms ▪ Reduced energy consumption thanks to DC fan motor	FXDA-A	•	•	•	•	•	•	•	•								
	Concealed ceiling unit with medium ESP	**Slimmest yet most powerfull medium static pressure unit on the market!** ▪ Slimmest unit in class, only 245mm ▪ Low operating sound level ▪ Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths ▪ Automatic air flow adjustment function measures the air volume and static pressure and adjusts it towards the nominal air flow, guaranteeing comfort	FXSA-A (Unique for R-32)		•	•	•	•	•	•			•	•	•	•			
	Concealed ceiling unit with high ESP	**ESP up to 250 Pa, ideal for extra large sized spaces** ▪ Optimum comfort guaranteed no matter the length of ductwork or type of grilles, thanks to automatic air flow adjustment ▪ Large capacity unit: up to 31.5 kW heating capacity	FXMA-A							•	•		•	•	•		•	•
Wall mounted	Wall mounted unit	**For rooms with no false ceilings nor free floor space** ▪ Flat, stylish front panel is more easy to clean ▪ Small capacity unit developted for small of well-insulated rooms ▪ Reduced energy consumption thanks to DC fan motor ▪ The air is comfortably spread up- and downwards thanks to 5 different discharge angles	FXAA-A		•	•	•	•	•	•	•								
Ceiling suspended	Ceiling suspended unit	**For wide rooms with no false ceilings nor free floor space** ▪ Ideal for comfortable air flow in wide rooms thanks to Coanda effect ▪ Rooms with ceilings up to 3.8m can be heated or cooled very easily! ▪ Can easily be installed in both new and refurbishment projects ▪ Can even be mounted in corners or narrow spaces without any problem	FXHA-A					•		•	•			•					
	UNIQUE 4-way blow ceiling suspended unit	**Unique Daikin unit for high rooms with no false ceilings nor free floor space** ▪ Rooms with ceilings up to 3.5m can be heated up or cooled down very easily! ▪ Can easily be installed in both new and refurbishment projects ▪ Intelligent sensors save energy and maximise comfort ▪ Flexibility to suit every room layout	FXUA-A							•		•		•					
Floor standing	NEW Concealed floor standing unit	**Ideal for installation in offices, hotels and residential applications** ▪ Discretely concealed in the wall, leaving only the suction and discharge grilles visible ▪ Can even be installed underneath a window ▪ Requires very little installation space as the depth is only 200mm ▪ High ESP allows flexible installation	FXNA-A	•	•	•	•	•	•										
Cooling capacity (kW)[1]				1.1	1.7	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	14.0	16.0	22.4	28.0
Heating capacity (kW)[2]				1.3	1.9	2.5	3.2	4.0	5.0	6.3	8.0	9.0	10.0	12.5	16.0	18.0	25.0	31.5

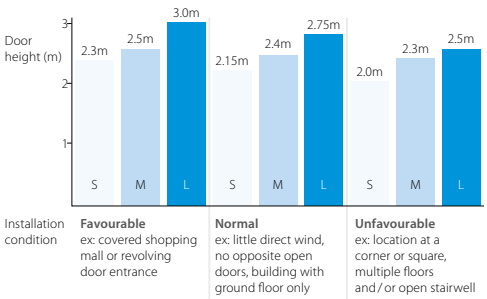
UV Streamer kit

Auto cleaning filter option

(1) Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m
(2) Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m

Biddle air curtains NEW

Type	Product name		Model
Free-hanging	CYA-S/M/L-DK-F		**Easy wall mounted installation** ▪ Connectable to ERQ and VRV units ▪ Unified range for R-32 and R-410A refrigerant ▪ Payback period of less then 1.5 years compared to installing an electric air curtain
Cassette	CYA-S/M/L-DK-C		**Mounted into a false ceiling leaving only the decoration panel visible** ▪ Connectable to ERQ and VRV units ▪ Unified range for R-32 and R-410A refrigerant ▪ Payback period of less then 1.5 years compared to installing an electric air curtain
Recessed	CYA-S/M/L-DK-R		**Neatly concealed in the ceiling** ▪ Connectable to ERQ and VRV units ▪ Unified range for R-32 and R-410A refrigerant ▪ Payback period of less then 1.5 years compared to installing an electric air curtain



VRV 5 indoor unit benefit overview

			Ceiling mounted cassette units			Concealed ceiling units			Wall mounted unit	Ceiling suspended units		Floor standing units
			FXFA-A	FXZA-A	NEW FXKA-A	FXDA-A	FXSA-A	FXMA-A	FXAA-A	FXHA-A	FXUA-A	NEW FXNA-A
												
We care	Home leave operation	Maintains the indoor temperature at your specified comfort level during absence, thus saving energy.	•	•	•	•	•	•	•	•	•	•
	Fan only	The unit can be used as fan, blowing air without heating or cooling.	•	•	•	•	•	•	•	•	•	•
	Auto cleaning filter	The filter automatically cleans itself. Simplicity of upkeep means optimum energy efficiency and maximum comfort without the need for expensive or time-consuming maintenance.	○			○						
	Floor and presence sensor	The presence sensor directs the air away from any person detected in the room, when the air flow control is on. The floor sensor detects the average floor temperature and ensures an even temperature distribution between ceiling and floor.	◦	◦							NEW ○	
Comfort	Draught prevention	When starting to warm up or when the thermostat is off, the air discharge direction is set horizontally and the fan to low speed, to prevent draught. After warming up, air discharge and fan speed are set as desired.	•	•	•						•	
	Whisper quiet	Daikin indoor units are whisper quiet. Also the outdoor units are guaranteed not to disturb the quiet of the neightbourhood.	•	•		•	•		•			
	Auto cooling-heating changeover	Automatically selects cooling or heating mode to achieve the set temperature.	•	•	•	•	•	•	•	•	•	•
Air treatment	UV Streamer kit	Purifies the air of pollutants such as viruses, bacteria, fine dust (PM1.0), odours, allergens, etc ensuring a healthy and hygienic indoor environment	•									
	Air filter	Removes airborne dust particles to ensure a steady supply of clean air.	○ (2) (Optional high efficiency filter ePM10 60%)	• (2)	• (2)	• (2)	• (2)	○ (2) Optional pre filter and high efficiency filter available (200-250)	• (2)	• (2)	• (2)	• (1)
Humidity control	Dry programme	Allows humidity levels to be reduced without variations in room temperature.	•	•	•	•	•	•	•	•	•	•
Air flow	Ceiling soiling prevention	Prevents air from blowing out too long in horizontal position, to prevent ceiling stains.	•	•	•							
	Vertical auto swing	Possibility to select automatic vertical moving of the air discharge flaps for efficient air and temperature distribution throughout the room.	•	•	•				•	•	•	
	Fan speed steps	Allows to select up to the given number of fan speed.	5 + auto	3 + auto	3 + auto	3	3 + auto	3 (50-125) 3 + auto (200-250)	3 + auto	3	3 + auto	3 + auto
	Individual flap control	Individual flap control via the wired remote controller enables you to easily fix the position of each flap individually, to suit any new room configuration. Optional closure kits are available as well.	•	•							•	
Remote control & timer	Onecta controller (BRP069C51)	Control your indoor climate from any location via smartphone or tablet.	○	○	○	○	○	○	○	○	○	○
	Weekly timer	Can be set to start heating or cooling anytime on a daily or weekly basis.	○	○	○	○	○	○	○	○	○	○
	Infrared remote control	Starts, stops and regulates the air conditioner from a distance.	○ (1)	○ (1)		○ (1)	○ (1)	○ (1)	○ (1)	○ (1)	○ (1)	○
	Wired remote control	Starts, stops and regulates the air conditioner.	• (3)	• (3)	• (3)	• (3)	• (3)	• (3)	• (3)	• (3)	• (3)	• (3)
	Centralised control	Starts, stops and regulates several air conditioners from one central point.	○	○	○	○	○	○	○	○	○	○
Other functions	Auto-restart	The unit restarts automatically at the original settings after power failure.	•	•	•	•	•	•	•	•	•	•
	Self-diagnosis	Simplifies maintenance by indicating system faults or operating anomalies.	•	•	•	•	•	•	•	•	•	•
	Drain pump kit	Facilitates condensation draining from the indoor unit.	•	•	•	•	•	•	○	○	•	
	Multi tenant	The indoor unit's main power supply can be turned off when leaving the hotel or office building.	○ (4)	○ (4)	○ (4)	○ (4)	○ (4)	○ (4)	○ (4)	○ (4)	○ (4)	

• standard ○ optional

(1) Must be combined with Madoka wired remote controller.
(2) Pre filter
(3) BRC1H52W7/S7/K7 is a required option
(4) In combination with REYA/RXYA/RXYSA8-12 outdoor units (for more information contact your sales representative).



Round flow cassette



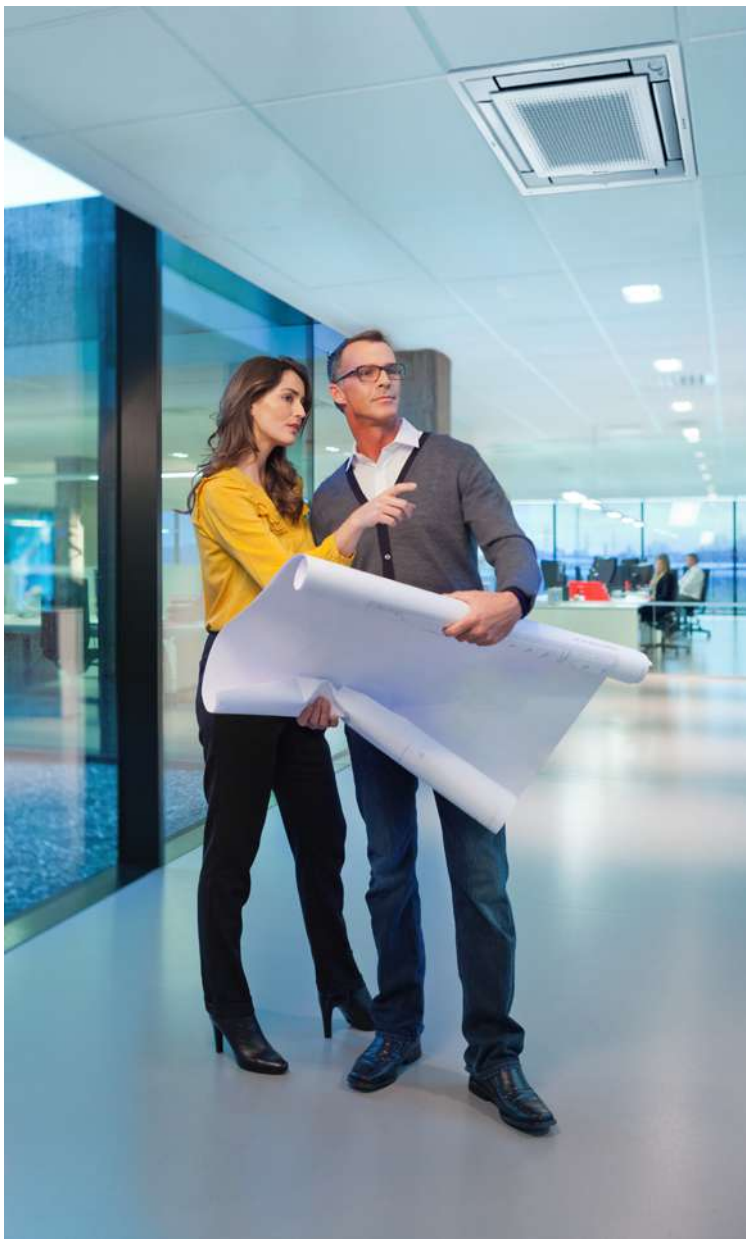
4-way blow ceiling suspended unit



Slim concealed ceiling unit



Concealed ceiling unit with high ESP



Fully flat cassette

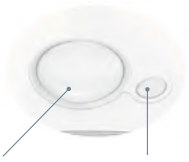


Concealed floor standing unit



Complete indoor comfort, including pure air

The round flow cassette

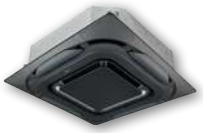


presence sensor floor sensor

- Maximum comfort thanks to **360° air discharge and intelligent sensors**
- **Widest ever choice in panels** to match any interior



Black auto cleaning panel



Black designer panel



Full white standard panel



White designer panel

- **Auto cleaning panel** keeps the filter free of dust for maximum efficiency
- **UV streamer kit**
  - Purifies the air of pollutants such as viruses, bacteria, fine dust PM1, odours, allergens, etc ensuring a healthy and hygienic indoor environment
  - Unique catch & clean approach includes an ISO ePM1 60% (F7) filter, UV-C light and Streamer technology
  - Can be **retrofitted** into existing installations



UV STREAMER

99.9%

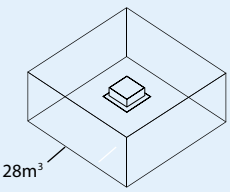
of viruses removed in 30 minutes, thanks to Daikin's unique

Catch & Clean approach

Tested at Intertek
Results based on tests performed in the laboratories of Intertek, in a 28m³ room. Daikin's Round flow cassette (FXFQ125B) removes more than 99.9% of enveloped viruses such as Corona viruses.

* Additional details regarding this function can be found in the unit technical manual.

Tested according to real life sized room



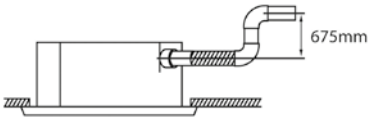


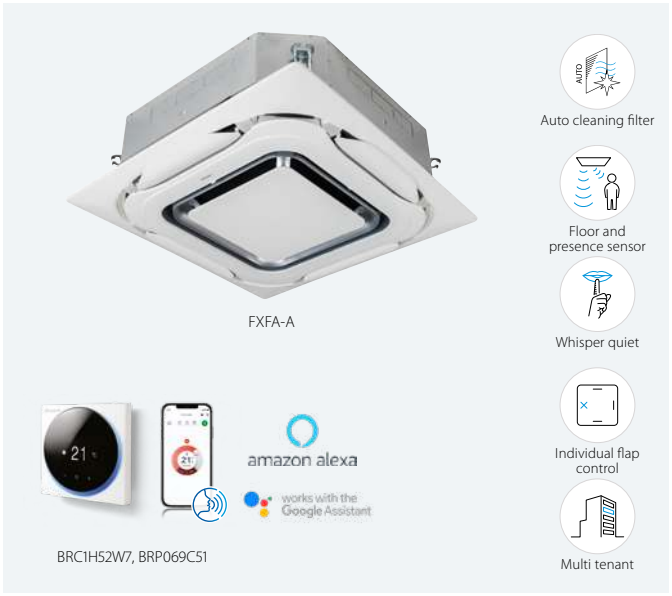
View full test report:

Round flow cassette

360° air discharge for optimum efficiency and comfort

- Optimised design for R-32 refrigerant
- Optional automatic filter cleaning panel results in higher efficiency & comfort and lower maintenance costs
- Two optional intelligent sensors improve energy efficiency and comfort
- Widest choice ever in decoration panels: designer panels in white (RAL9010) and black (RAL9005) and standard panels in white (RAL9010) with grey louvers or full white
- Bigger flaps and unique swing pattern improve equal air distribution
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- Lowest installation height in the market: 214mm for class 20-63
- UV streamer kit, purifies the air of pollutants such as viruses, bacteria, fine dust (PM1.0), odours, allergens, etc ensuring a healthy and hygenic indoor environment
- Optional fresh air intake
- Standard drain pump with 675mm lift increases flexibility and installation speed






White panel | White auto cleaning panel | Black panel | Black design panel

FXFA-A

Indoor Unit				FXFA	20A	25A	32A	40A	50A	63A	80A	100A	125A
Cooling capacity	Total capacity	At high fan speed		kW	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00
Heating capacity	Total capacity	At high fan speed		kW	2.50	3.20	4.00	5.00	6.30	8.00	10.00	12.50	16.00
Power input - 50Hz	Cooling	At high fan speed		kW	0.017			0.018	0.023	0.028	0.045	0.078	0.103
	Heating	At high fan speed		kW	0.017			0.018	0.023	0.028	0.045	0.078	0.103
Dimensions	Unit	HeightxWidthxDepth		mm	204x840x840						246x840x840		288x840x840
Weight	Unit			kg	18			19	21		24		26
Casing	Material				Galvanised steel plate								
Decoration panel	Model				Standard panels: BYCQ140E2W1 - white with grey louvers / BYCQ140E2W1W - full white / BYCQ140E2W1B - black Auto cleaning panels: BYCQ140E2GFW1 - white / BYCQ140E2GFW1B - black Designer panels: BYCQ140E2P - white / BYCQ140E2PB - black								
	Dimensions	HeightxWidthxDepth		mm	Standard panels: 65x950x950 / Auto cleaning panels: 148x950x950 / Designer panels: 106x950x950								
	Weight			kg	Standard panels: 5.5 / Auto cleaning panels: 10.3 / Designer panels: 6.5								
Fan	Air flow rate - 50Hz	Cooling	At high / medium high / medium / medium low / low fan speed	m^3/min	12.8/11.8/10.7/9.8/8.9			14.8/13.7/12.6/11.5/10.4	15.1/14.0/12.8/11.8/10.7	16.6/15.0/13.3/12.0/10.7	23.3/21.7/19.3/16.5/13.8	28.8/25.1/21.2/17.5/13.8	33.0/30.2/27.4/24.0/20.6
		Heating	At high / medium high / medium / medium low / low fan speed	m^3/min	12.8/11.8/10.7/9.8/8.9			14.8/13.7/12.6/11.5/10.4	15.1/14.0/12.8/11.8/10.7	16.6/15.0/13.3/12.0/10.7	23.3/21.7/19.3/16.5/13.8	29.0/25.1/21.2/17.5/13.8	33.0/30.2/27.4/24.0/20.6
Air filter	Type				Resinnet								
Sound power level	Cooling	At high fan speed		dBA	49.0			51.0		53.0	55.0	60.0	61.0
Sound pressure level	Cooling	At high / medium high / medium / medium low / low fan speed		dBA	31.0/30.0/29.0/29.5/28.0			33.0/32.0/31.0/30.0/29.0		35.0/34.0/33.0/32.0/30.0	38.0/36.0/34.0/32.0/30.0	43.0/41.0/37.0/34.0/30.0	45.0/43.0/41.0/39.0/36.0
	Heating	At high / medium high / medium / medium low / low fan speed		dBA	31.0/30.0/29.0/29.5/28.0			33.0/32.0/31.0/30.0/29.0		35.0/34.0/33.0/32.0/30.0	38.0/36.0/34.0/32.0/30.0	43.0/41.0/37.0/34.0/30.0	45.0/43.0/41.0/39.0/36.0
Refrigerant	Type/GWP				R-32/675.0								
Piping connections	Liquid	OD		mm	6.35								9.52
	Gas	OD		mm	9.52			12.70					15.90
	Drain				VP25 (O.D. 32 / I.D. 25)								
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220								
Current - 50Hz	Maximum fuse amps (MFA)			A	6								
Control systems	Infrared remote control				BRC7FA532F / BRC7FB532F / BRC7FA532FB / BRC7FB532FB								
	Wired remote control				BRC1H52W7/S7/K7								

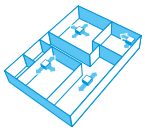
Contains fluorinated greenhouse gases

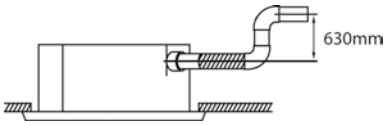
BLUEVOLUTION

Fully flat cassette

Unique design in the market that integrates fully flat into the ceiling

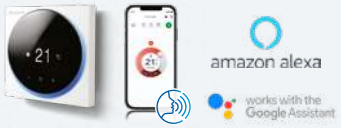
- Optimised design for R-32 refrigerant
- Fully flat integration in standard architectural ceiling tiles, leaving only 8mm
- Remarkable blend of iconic design and engineering excellence with an elegant finish in white or a combination of silver and white
- Two optional intelligent sensors improve energy efficiency and comfort
- 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- Individual flap control:
  flexibility to suit every room layout
  without changing the location of the unit!
- Optional fresh air intake
- Standard drain pump with 630mm lift increases flexibility and installation speed



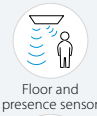




FXZA-A



BRC1H52W7, BRP069C51


Floor and presence sensor


Whisper quiet


Individual flap control


Multi tenant

FXZA-A

Indoor Unit				FXZA	15A	20A	25A	32A	40A	50A
Cooling capacity	Total capacity	At high fan speed		kW	1.70	2.20	2.80	3.60	4.50	5.60
Heating capacity	Total capacity	At high fan speed		kW	1.90	2.50	3.20	4.00	5.00	6.30
Power input - 50Hz	Cooling	At high fan speed		kW	0.018		0.020	0.019	0.029	0.048
	Heating	At high fan speed		kW	0.018		0.020	0.019	0.029	0.048
Dimensions	Unit	HeightxWidthxDepth		mm	260x575x575					
Weight	Unit			kg	15.5			16.5		18.5
Casing	Material				Galvanised steel plate					
Decoration panel	Model				BYFQ60C4W1W					
	Colour				White (N9.5)					
	Dimensions	HeightxWidthxDepth		mm	46x620x620					
	Weight			kg	2.8					
Decoration panel 2	Model				BYFQ60C4W1S					
	Colour				SILVER					
	Dimensions	HeightxWidthxDepth		mm	46x620x620					
	Weight			kg	2.8					
Decoration panel 3	Model				BYFQ60B3W1 + wire harness EKRS23					
	Colour				WHITE (RAL9010)					
	Dimensions	HeightxWidthxDepth		mm	55x700x700					
	Weight			kg	2.7					
Fan	Air flow rate - 50Hz	Cooling	At high / medium / low fan speed	m^3/min	8.5/7.0/6.5	8.7/7.5/6.5	9.0/8.0/6.5	10.0/8.5/7.0	11.5/9.5/8.0	14.0/12.5/10.0
		Heating	At high / medium / low fan speed	m^3/min	8.5/7.0/6.5	8.7/7.5/6.5	9.0/8.0/6.5	10.0/8.5/7.0	11.5/9.5/8.0	14.0/12.5/10.0
Air filter	Type				Resin net					
Sound power level	Cooling	At high fan speed		dBA	49		50	51	54	60
Sound pressure level	Cooling	At high / medium / low fan speed		dBA	31.5/28.0/25.5	32.0/29.5/25.5	33.0/30.0/25.5	33.5/30.0/26.0	37.0/32.0/28.0	43.0/40.0/33.0
	Heating	At high / medium / low fan speed		dBA	31.5/28.0/25.5	32.0/29.5/25.5	33.0/30.0/25.5	33.5/30.0/26.0	37.0/32.0/28.0	43.0/40.0/33.0
Refrigerant	Type/GWP				R-32/675.0					
Piping connections	Liquid	OD		mm	6.35					
	Gas	OD		mm	9.52				12.70	
	Drain				VP20 (I.D. 20/O.D. 26)					
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220					
Current - 50Hz	Maximum fuse amps (MFA)			A	6					
Control systems	Infrared remote control				BRC7F530W (white panel) / BRC7F530S (grey panel) / BRC7EB530W (standard panel) (1)					
Control systems	Wired remote control				BRC1H52W7/S7/K7					

Dimensions do not include control box | (1) Must be combined with Madoka wired remote controller | Contains fluorinated greenhouse gases

NEW FXKA-A

BLUEVOLUTION

Ceiling mounted corner cassette

1-way blow unit for corner installation

- Optimised design for R-32 refrigerant
- Compact dimensions enable installation in narrow ceiling voids (only 200mm high)
- NEW New modern decoration panel
- NEW The air is comfortably spread up- and downwards thanks to 5 different discharge angles that can be programmed via the remote control
- Optional fresh air intake
- Standard drain pump increases flexibility and installation speed

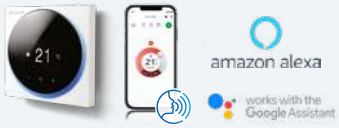
New design!



Vertical auto swing

Multi tenant

FXKA-A



BRC1H52W7, BRP069C51

FXKA-A

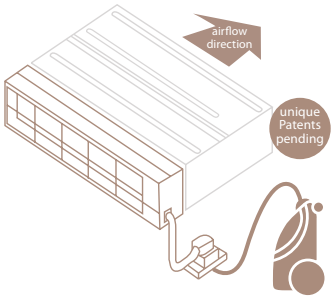
Indoor Unit				FXKA	20	25	32	40	50	63
Cooling capacity	Total capacity	At high fan speed		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity	Total capacity	At high fan speed		kW	2.5	3.2	4	5	6.3	8
Power input - 50Hz	Cooling	At high fan speed		kW	0.024	0.024	0.033	0.038	0.055	0.118
	Heating	At high fan speed		kW	0.024	0.024	0.033	0.038	0.055	0.118
Dimensions	Unit	HeightxWidthxDepth		mm	200x840x470			200x1,240x470		
Weight	Unit			kg	17	17	18	23	23	23
Casing	Material				Galvanised steel plate					
Decoration panel	Model				BYK32G			BYK63G		
	Dimensions	HeightxWidthxDepth		mm	80x950x550			80x1,350x550		
	Weight			kg						
Fan	Airflow rate	Cooling	At high / medium / low fan speed	m^3/min	7.1/6/5		8.5/7.3/6	12.9/11/9.1	15.5/13.2/11	21.5/17/14.1
Air filter	Type				Resin net					
Sound power level	Cooling	At high / medium / low fan speed		dBA	46.0/43.5/41.0		50.5/48.5/46.5	52.5/50.0/48.0	57.0/52.5/50.0	61.5/57.0/52.5
	Heating	At high / medium / low fan speed			50.0/46.0/41.5		52.5/49.5/47.0	53.0/50.5/48.0	58.0/53.0/50.5	63.5/58.0/53.0
Sound pressure level	Cooling	At high / medium / low fan speed		dBA	32.0/27.5/22.5		37.0/34.0/31.5	38.5/34.5/31.5	42.0/38.0/34.5	48.5/43.5/38.5
	Heating	At high / medium / low fan speed		dBA	36.0/31.0/25.5		39.0/35.5/32.5	39.5/36.0/32.5	44.0/39.5/36.0	49.0/44.0/39.5
Refrigerant	Type/GWP				R-32/675					
Piping connections	Liquid	OD		mm	6.35					
	Gas	OD		mm	9.52				12.7	
	Drain				VP25 (O.D. 32/I.D. 25)					
Power supply				Hz/V	1~/50/60/220-240/220					
Current - 50Hz	Maximum fuse amps (MFA)			A	6					

Contains fluorinated greenhouse gases



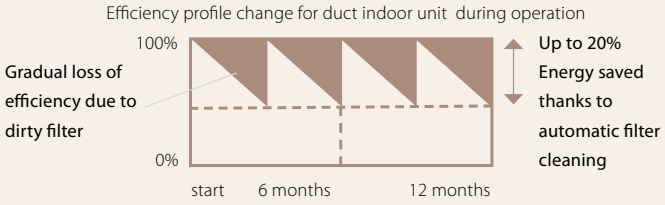
Auto cleaning filter for concealed ceiling units

The unique automatic cleaning filter achieves higher efficiency and comfort with lower maintenance costs



Reduce running costs

- Automatic filter cleaning ensures low maintenance costs because the filter is always clean



Minimal time required for filter cleaning

- The dust box can be emptied with a vacuum cleaner for fast and easy cleaning
- No more dirty ceilings

Improved indoor air quality

- Optimum airflow eliminates draft and insulates sound

Superb reliability

- Prevents clogged filters for seamless operation

Unique technology

- Unique and innovative filter technology inspired by the Daikin auto cleaning cassette



How does it work?

1 Scheduled automatic filter cleaning

2 Dust collects in a dust box that's integrated into the unit

3 The dust can easily be removed with a vacuum cleaner

Combination table

	Split / Sky Air				VRV						
	FDXM-F9				FXDA-A/FXDQ-A3						
	25	35	50	60	15	20	25	32	40	50	63
BAE20A62	●	●			●	●	●	●			
BAE20A82									●	●	
BAE20A102			●	●							●

Specifications

	BAE20A62	BAE20A82	BAE20A102
Height (mm)	210		
Width (mm)	830	1,030	1,230
Depth (mm)	188		

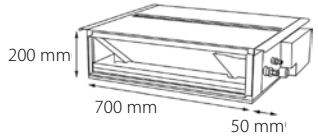
BLUEVOLUTION

Slim concealed ceiling unit

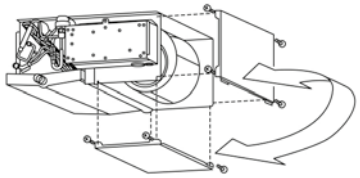
Slim design for flexible installation

- Optimised design for R-32 refrigerant
- 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- Compact dimensions, can easily be mounted in a ceiling void of only 240mm

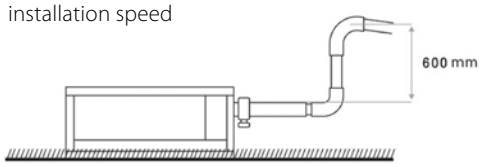
Serie A (15, 20, 25, 32)



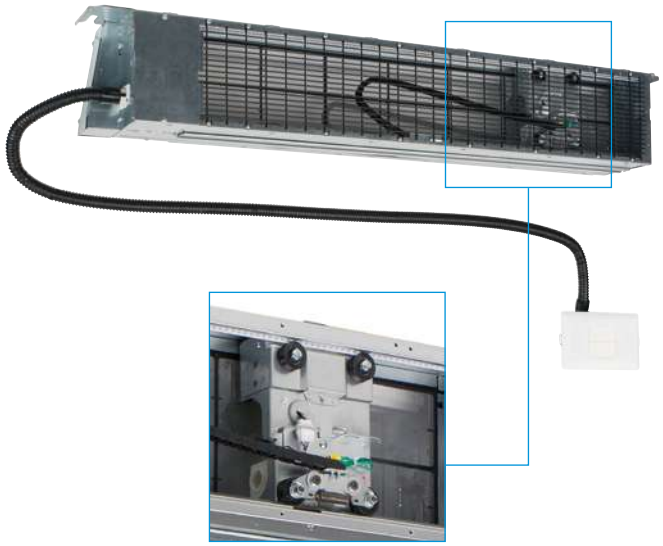
- Medium external static pressure up to 44Pa facilitates unit use with flexible ducts of varying lengths
- Discretely concealed in the wall: only the suction and discharge grilles are visible
- Optional auto cleaning filter option ensures maximum efficiency, comfort and reliability by regular filter cleaning
- Flexible installation, as the air suction direction can be altered from rear to bottom suction



- Standard drain pump with 600mm lift increases flexibility and installation speed







Auto cleaning filter option

FXDA-A

Indoor Unit				FXDA	10A	15A	20A	25A	32A	40A	50A	63A
Cooling capacity	Total capacity	At high fan speed		kW	1.10	1.70	2.20	2.80	3.60	4.50	5.60	7.10
Heating capacity	Total capacity	At high fan speed		kW	1.30	1.90	2.50	3.20	4.00	5.00	6.30	8.00
Power input - 50Hz	Cooling	At high fan speed		kW	0.026	0.035	0.030		0.035	0.038	0.049	0.058
	Heating	At high fan speed		kW	0.026	0.035	0.030		0.035	0.038	0.049	0.058
Required ceiling void >				mm	240							
Dimensions	Unit	HeightxWidthxDepth		mm	200x750x620					200x950x620		200x1,150x620
Weight	Unit			kg	22.0		23.0			26.5		30.5
Casing	Material				Galvanised steel							
Fan	Air flow rate - 50Hz	Cooling	At high / medium / low fan speed	m^3/min	5.2/4.9/4.7	6.5/6.2/5.8	8.0/7.2/6.4			10.5/9.5/8.5	12.5/11.0/10.0	16.5/14.5/13.0
		Heating	At high / medium / low fan speed	m^3/min	5.2/4.9/4.7	6.5/6.2/5.8	8.0/7.2/6.4			10.5/9.5/8.5	12.5/11.0/10.0	16.5/14.5/13.0
	External static pressure - 50Hz	Factory set / High		Pa	10/30					15/44		
Air filter	Type				Removable / washable							
Sound power level	Cooling	At high fan speed		dBA	48	50	51			52	53	54
Sound pressure level	Cooling	At high / medium / low fan speed		dBA	29.0/28.0/26.0	32.0/31.0/27.0	33.0/31.0/27.0			34.0/32.0/28.0	35.0/33.0/29.0	36.0/34.0/30.0
	Heating	At high / medium / low fan speed		dBA	29.0/28.0/26.0	32.0/31.0/27.0	33.0/31.0/27.0			34.0/32.0/28.0	35.0/33.0/29.0	36.0/34.0/30.0
Refrigerant	Type/GWP				R-32/675.0							
Piping connections	Liquid	OD		mm	6							
	Gas	OD		mm	9.52					12.70		
	Drain				VP20 (I.D. 20/O.D. 26)							
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220							
Current - 50Hz	Maximum fuse amps (MFA)			A	6							
Control systems	Infrared remote control				BRC4C65 (1)							
	Wired remote control				BRC1H52W7/S7/K7							

(1) Must be combined with Madoka wired remote controller | Contains fluorinated greenhouse gases

BLUEVOLUTION

Concealed ceiling unit with medium ESP

Slimmest yet most powerful medium static pressure unit on the market

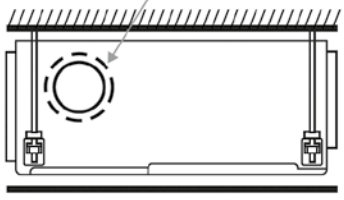
- Optimised design for R-32 refrigerant
- Slimmest unit in class, only 245mm (300mm built-in height) and therefore narrow ceiling voids are no longer a challenge

245 mm 

- Quiet operation: down to 25dBA sound pressure level
- Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- Discretely concealed in the wall: only the suction and discharge grilles are visible
- 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- Optional fresh air intake
- Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required

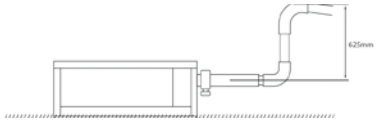
Fresh air intake opening in casing

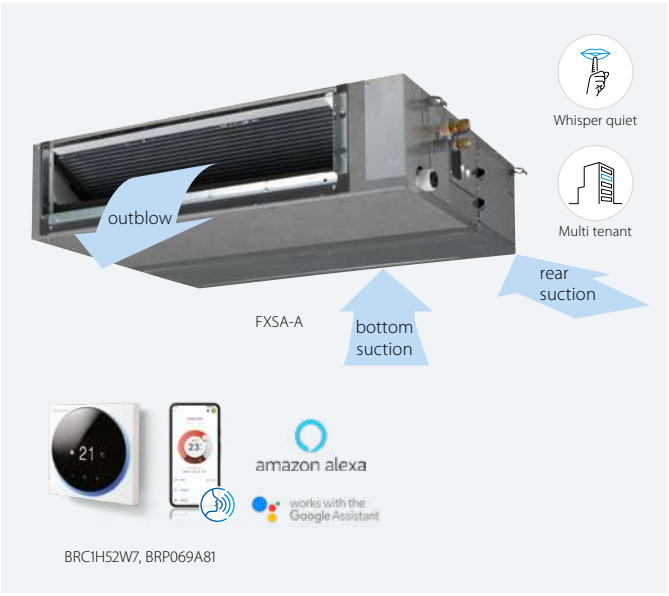
Fresh air intake position



* Brings in up to 10% of fresh air into the room

- Standard built-in drain pump with 625mm lift increases flexibility and installation speed





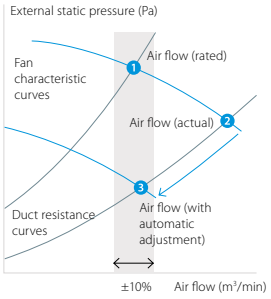
BRC1H52W7, BRP069A81

Automatic Airflow Adjustment function

Automatically selects the most appropriate fan curve to achieve the units' nominal air flow within ±10%

Why?

After installation the real ducting will frequently differ from the initially calculated air flow resistance ✳ the real air flow may be much lower or higher than nominal, leading to a lack of capacity or uncomfortable air temperature
Automatic Airflow Adjustment function will adapt the unit's fan speed to any ducting automatically (10 or more fan curves are available on every model), making installation much faster



FXSA-A

Indoor Unit				FXSA	15A	20A	25A	32A	40A	50A	63A	80A	100A	125A	140A
Cooling capacity	Total capacity	At high fan speed		kW	1.70	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00	16.00
Heating capacity	Total capacity	At high fan speed		kW	1.90	2.50	3.20	4.00	5.00	6.30	8.00	10.00	12.50	16.00	18.00
Power input - 50Hz	Cooling	At high fan speed		kW	0.046			0.049	0.094	0.096	0.106	0.143	0.176	0.216	0.272
	Heating	At high fan speed		kW	0.046			0.049	0.094	0.096	0.106	0.143	0.176	0.216	0.272
Dimensions	Unit	HeightxWidthxDepth		mm	245x550x800				245x700x800		245x1,000x800		245x1,400x800		245x1,550x800
Weight	Unit			kg	23.5			24.0	28.5	29.0	35.5	36.5	46.0	47.0	51.0
Casing	Material				Galvanised steel plate										
Fan	Air flow rate - 50Hz	Cooling	At high / medium / low fan speed	m^3/min	8.7/7.5/6.5	9.0/7.5/6.5		9.5/8.0/7.0	15.0/12.5/11.0	15.2/12.5/11.0	21.0/18.0/15.0	23.0/19.5/16.0	32.0/27.0/23.0	36.0/31.5/26.0	39.0/34.0/28.0
		Heating	At high / medium / low fan speed	m^3/min	8.7/7.5/6.5	9.0/7.5/6.5		9.5/8.0/7.0	15.0/12.5/11.0	15.2/12.5/11.0	21.0/18.0/15.0	23.0/19.5/16.0	32.0/27.0/23.0	36.0/31.5/26.0	42.5/34.0/28.0
	External static pressure - 50Hz	Factory set / High		Pa	30/150							40/150		50/150	
Air filter	Type				Resin net										
Sound power level	Cooling	At high fan speed		dBA	54			55	60		59	61		64	
Sound pressure level	Cooling	At high / medium / low fan speed		dBA	29.5/28.0/25.0	30.0/28.0/25.0		31.0/29.0/26.0	35.0/32.0/29.0		33.0/30.0/27.0	35.0/32.0/29.0	36.0/34.0/31.0	39.0/36.0/33.0	41.5/38.0/34.0
	Heating	At high / medium / low fan speed		dBA	31.5/29.0/26.0	32.0/29.0/26.0		33.0/30.0/27.0	37.0/34.0/29.0		35.0/32.0/28.0	37.0/34.0/30.0	37.0/34.0/31.0	40.0/37.0/33.0	42.0/38.5/34.0
Refrigerant	Type/GWP				R-32/675.0										
Piping connections	Liquid	OD		mm	6.35								9.52		
	Gas	OD		mm	9.52				12.70				15.90		
	Drain				VP20 (I.D. 20/O.D. 26), drain height 625 mm										
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220										
Current - 50Hz	Maximum fuse amps (MFA)			A	6										
Control systems	Infrared remote control				BRC4C65 / BRC4C66 (1)										
	Wired remote control				BRC1H52W7/S7/K7										

(1) Must be combined with Madoka wired remote controller | Contains fluorinated greenhouse gases

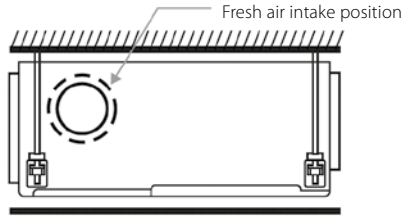
BLUEVOLUTION

Concealed ceiling unit with high ESP

Ideal for large sized spaces ESP up to 250 Pa

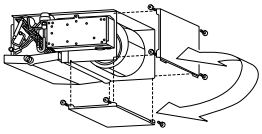
- Optimised design for R-32 refrigerant
- High external static pressure up to 250Pa facilitates extensive duct and grille network
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- Discretely concealed in the wall: only the suction and discharge grilles are visible
- Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required (50-125 class)

Fresh air intake opening in casing

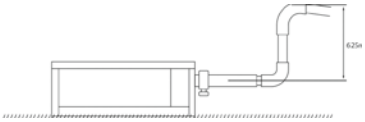


* Brings in up to 10% of fresh air into the room

- Flexible installation, as the air suction direction can be altered from rear to bottom suction (50-125 class)



- Standard built-in drain pump with 625mm lift increases flexibility and installation speed (optional for 200-250)



- Large capacity unit: up to 31.5 kW heating capacity

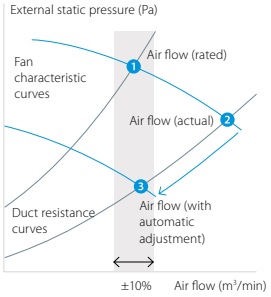


Automatic Airflow Adjustment function

Automatically selects the most appropriate fan curve to achieve the units' nominal air flow within ±10%

Why?

After installation the real ducting will frequently differ from the initially calculated air flow resistance ✳ the real air flow may be much lower or higher than nominal, leading to a lack of capacity or uncomfortable air temperature
Automatic Airflow Adjustment function will adapt the unit's fan speed to any ducting automatically (10 or more fan curves are available on every model), making installation much faster



FXMA-A

Indoor Unit				FXMA	50A	63A	80A	100A	125A	200A	250A
Cooling capacity	Total capacity	At high fan speed		kW	5.6	7.1	9.0	11.2	14.0	22.4	28.0
	Nom.			kW			-			22.4	28.0
Heating capacity	Total capacity	At high fan speed		kW	6.3	8.0	10.0	12.5	16.0	25.0	31.5
	Nom.			kW			-			25.0	31.5
Power input - 50Hz	Cooling	At high fan speed		kW	0.125	0.140	0.198	0.191	0.254	0.54	0.65
	Heating	At high fan speed		kW	0.125	0.140	0.198	0.191	0.254	0.54	0.65
Required ceiling void >				mm			350			-	
Dimensions	Unit	HeightxWidthxDepth		mm		300x1,000x700		300x1,400x700		470x1,490x1,100	
Weight	Unit			kg		35		46		105	115
Casing	Material						Galvanised steel plate				
Fan	Air flow rate - 50Hz	Cooling	At high / medium / low fan speed	m^3/min	18.0/16.5/15.0	19.5/17.5/16.0	25.0/22.5/20.0	32.0/27.0/23.0	36.0/30.0/26.0	62/48/41	74/64/52
		Heating	At high / medium / low fan speed	m^3/min	18.0/16.5/15.0	19.5/17.5/16.0	25.0/22.5/20.0	32.0/27.0/23.0	36.0/30.0/26.0	62/48/41	74/64/52
	External static pressure - 50Hz	Factory set / High / Low		Pa			100/200/-			150/250/50	
Air filter	Type						Resin net			-	
Sound power level	Cooling	At high / medium / low fan speed		dBA	61.0/60.0/58.0	64.0/61.0/59.0	67.0/64.0/62.0	65.0/61.0/56.0	70.0/66.0/62.0	75/74/72	76/75/73
Sound pressure level	Cooling	At high / medium / low fan speed		dBA	41.0/39.0/37.0	42.0/40.0/38.0	43.0/41.0/39.0		44.0/42.0/40.0	48/46.5/45	
	Heating	At high / medium / low fan speed		dBA	41.0/39.0/37.0	42.0/40.0/38.0	43.0/41.0/39.0		44.0/42.0/40.0	48/46.5/45	
Refrigerant	Type/GWP						R-32/675				
Piping connections	Liquid	OD		mm		6.35		9.52			
	Gas	OD		mm		12.70		15.90		19.1	
	Drain						VP25 (I.D. 25/O.D. 32)			BSP1	
Power supply	Phase/Frequency/Voltage			Hz/V			1~/50/60/220-240/220			1~/50/60/220-240/220-230	
Current - 50Hz	Maximum fuse amps (MFA)			A			6				
Control systems	Infrared remote control						BRC4C65 / BRC4C66			BRC4C65	
	Wired remote control						BRC1H52W7/S7/K7				

Contains fluorinated greenhouse gases

BLUEVOLUTION

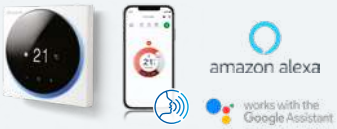
Wall mounted unit

For rooms with no false ceilings nor free floor space

- Optimised design for R-32 refrigerant
- Flat, stylish front panel blends easily within any interior décor and is easier to clean
- Can easily be installed in both new and refurbishment projects
- The air is comfortably spread up- and downwards thanks to 5 different discharge angles that can be programmed via the remote control
- Maintenance operations can be performed easily from the front of the unit



FXAA-A



BRC1H52W7, BRP069C51

Home leave operation

Whisper quiet

Vertical auto swing

Multi tenant

3 fan speeds available!

FXAA-A

Indoor Unit					FXAA	15A	20A	25A	32A	40A	50A	63A
Cooling capacity	Total capacity	At high fan speed			kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity	Total capacity	At high fan speed			kW	1.9	2.5	3.2	4.0	5.0	6.3	8.0
Power input – 50Hz	Cooling	At high fan speed			kW	0.017	0.019	0.028	0.030	0.025	0.033	0.050
	Heating	At high fan speed			kW	0.025	0.029	0.034	0.035	0.030	0.039	0.060
Dimensions	Unit	HeightxWidthxDepth			mm	290x795x266				290x1,050x269		
Weight	Unit				kg	12				15		
Fan	Air flow rate – 50Hz	Cooling	At high/medium/ low fan speed		m^3/min	7.1/6.8/6.5	7.9/7.2/6.5	8.3/7.4/6.5	9.4/8.0/6.5	12.2/11.0/9.8	14.2/12.6/10.9	18.2/15.5/12.9
		Heating	At high/medium/ low fan speed		m^3/min	7.8/7.1/6.5	8.6/7.5/6.5	9.0/7.7/6.5	9.9/8.2/6.5	12.2/11.0/9.8	15.2/13.7/12.1	18.7/16.4/14.1
Air filter	Type					Removable / washable						
Sound power level	Cooling	At high fan speed			dBA	51.0	52.0	53.0	55.0		58.0	63.0
Sound pressure level	Cooling	At high/medium/low fan speed			dBA	32.0/30.5/28.5	33.0/31.0/28.5	35.0/32.0/28.5	37.5/33.0/28.5	37.0/35.5/33.5	41.0/38.5/35.5	46.5/42.5/38.5
	Heating	At high/medium/low fan speed			dBA	33.0/31.0/28.5	34.0/31.5/28.5	36.0/32.5/28.5	38.5/33.5/28.5	38.0/36.0/33.5	42.0/39.0/35.5	47.0/43.0/38.5
Refrigerant	Type/GWP					R-32/675.0						
Piping connections	Liquid	OD			mm	6.35						
	Gas	OD			mm	9.52				12.70		
	Drain					VP13 (I.D. 15/O.D. 18)						
Power supply	Phase/Frequency/Voltage				Hz/V	1~/50/220-240						
Current – 50Hz	Maximum fuse amps (MFA)				A	6						
Control systems	Infrared remote control					BRC7EA630 (1)						
	Wired remote control					BRC1H52W7/S7/K7						

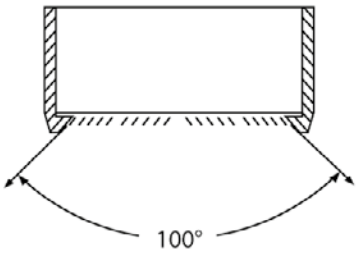
(1) Must be combined with Madoka wired remote controller | Contains fluorinated greenhouse gases

BLUEVOLUTION

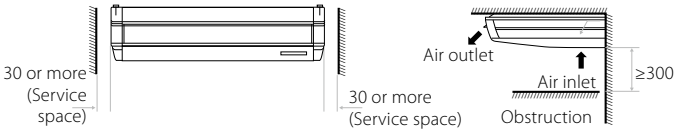
Ceiling suspended unit

For wide rooms with no false ceilings nor free floor space

- Optimised design for R-32 refrigerant
- Ideal for comfortable air flow in wide rooms thanks to Coanda effect: up to 100° discharge angle

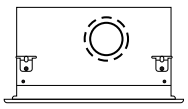


- Even rooms with ceilings up to 3.8m can be heated up or cooled down very easily without capacity loss
- Can easily be installed in both new and refurbishment projects
- Can easily be mounted in corners and narrow spaces, as it only needs 30mm lateral service space



- Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required

Fresh air intake opening in casing



* Brings in up to 10% of fresh air into the room

- Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating.



FXHA-A

Indoor Unit				FXHA	32A	50A	63A	100A
Cooling capacity	Total capacity	At high fan speed		kW	3.6	5.6	7.1	11.2
	Nom.			kW	3.6	5.6	7.1	11.2
Heating capacity	Total capacity	At high fan speed		kW	4.0	6.3	8.0	12.5
	Nom.			kW	4.0	6.3	8.0	12.5
Power input - 50Hz	Cooling	At high fan speed		kW	0.033	0.037	0.051	0.086
	Heating	At high fan speed		kW	0.033	0.037	0.051	0.086
Dimensions	Unit	HeightxWidthxDepth		mm	235x960x690	235x1,270x690		235x1,590x690
Weight	Unit			kg	28	36		43
Casing	Material				Resin, sheet metal			
Fan	Air flow rate - 50Hz	Cooling	At high / medium / low fan speed	m^3/min	12.5/11.0/10.0	16.0/14.0/12.5	17.5/15.0/13.0	27.0/22.0/19.0
		Heating	At high / medium / low fan speed	m^3/min	12.5/11.0/10.0	16.0/14.0/12.5	17.5/15.0/13.0	27.0/22.0/19.0
Air filter	Type				Resinnet			
Sound power level	Cooling	At high / medium / low fan speed		dBA	54.0/52.0/49.0	54.0/52.0/50.0	55.0/53.0/52.0	62.0/55.0/52.0
Sound pressure level	Cooling	At high / medium / low fan speed		dBA	36.0/34.0/31.0	36.5/34.5/33.0	37.0/35.0/34.0	44.0/37.0/34.0
	Heating	At high / medium / low fan speed		dBA	36.0/34.0/31.0	36.5/34.5/33.0	37.0/35.0/34.0	44.0/37.0/34.0
Refrigerant	Type/GWP				R-32/675			
Piping connections	Liquid	OD		mm	6.35			9.52
	Gas	OD		mm	9.52	12.7		15.9
	Drain				VP20			
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220			
Current - 50Hz	Maximum fuse amps (MFA)			A	6			
Control systems	Infrared remote control				BRC7GA56 / BRC7GA53-9			
	Wired remote control				BRC1H52W7/S7/K7			

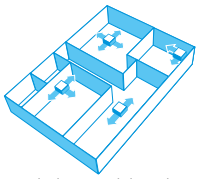
Contains fluorinated greenhouse gases

BLUEVOLUTION

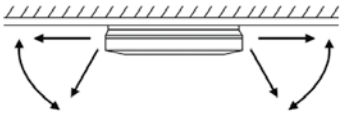
4-way blow ceiling suspended unit

Unique Daikin unit for high rooms with no false ceilings nor free floor space

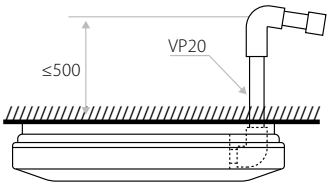
- Optimised design for R-32 refrigerant
- Even rooms with ceilings up to 3.5m can be heated up or cooled down very easily without capacity loss
- Can easily be installed in both new and refurbishment projects
- Two optional intelligent sensors improve energy efficiency and comfort
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!



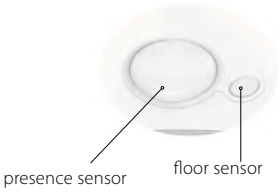
- Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating.
- Optimum comfort guaranteed with automatic air flow adjustment to the required load
- 5 different discharge angles between 0 and 60° can be programmed via the remote control



- Standard drain pump with 720mm lift increases flexibility and installation speed







FXUA-A

Indoor Unit				FXUA	50A	71A	100A
Cooling capacity	Total capacity	At high fan speed		kW	5.6	8.0	11.2
	Nom.			kW	5.6	8.0	11.2
Heating capacity	Total capacity	At high fan speed		kW	6.3	9.0	12.5
	Nom.			kW	6.3	9.0	12.5
Power input - 50Hz	Cooling	At high fan speed		kW	0.029	0.055	0.117
	Heating	At high fan speed		kW	0.029	0.055	0.117
Dimensions	Unit	HeightxWidthxDepth		mm	198x950x950		
Weight	Unit			kg	27		28
Casing	Material				Resin		
Fan	Air flow rate - 50Hz	Cooling	At high / medium / low fan speed	m^3/min	17.0/14.5/13.0	22.5/18.5/16.0	31.0/25.5/21.0
		Heating	At high / medium / low fan speed	m^3/min	17.0/14.5/13.0	22.5/18.5/16.0	31.0/25.5/21.0
Air filter	Type				Resin net		
Sound power level	Cooling	At high / medium / low fan speed		dBA	55.0/53.0/51.0	58.0/56.0/54.0	65.0/62.0/58.0
Sound pressure level	Cooling	At high / medium / low fan speed		dBA	37.0/35.0/33.0	40.0/38.0/36.0	47.0/44.0/40.0
	Heating	At high / medium / low fan speed		dBA	37.0/35.0/33.0	40.0/38.0/36.0	47.0/44.0/40.0
Refrigerant	Type/GWP				R-32/675		
Piping connections	Liquid	OD		mm	6.35		9.52
	Gas	OD		mm	12.7		15.9
	Drain				VP20		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220		
Current - 50Hz	Maximum fuse amps (MFA)			A	6		
Control systems	Infrared remote control				BRC7CB58 / BRC7CB59		
	Wired remote control				BRC1H52W7/S7/K7		

Contains fluorinated greenhouse gases

Concealed floor standing unit

Designed to be concealed in walls

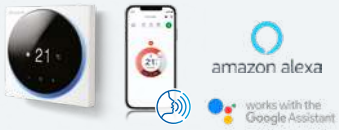
- Optimised design for R-32 refrigerant
- Discretely concealed in the wall: only the suction and discharge grilles are visible
- Requires very little installation space as the depth is only 200mm



- Its low height (620 mm) enables the unit to fit perfectly beneath a window
- High ESP allows flexible installation



FXNA-A



BRC1H52W7, BRP069C51

Most versatile R-32 VRF floor standing unit in the market

Typically, R-32 floor standing models have more stringent room size requirements than wall mounted or ceiling installed units to comply with the IEC60335-2-40 product standard.

However, with Daikin, this is no longer a limitation. By uniquely integrating the integral circulation airflow principle into our advanced Shîrudo technology, our floor standing models offer the same installation flexibility as wall mounted and cassette units.

FXNA-A

Indoor Unit				FXNA-A	20A	25A	32A	40A	50A	63A
Cooling capacity	Total capacity	At high fan speed		kW	2.20	2.80	3.60	4.50	5.60	7.10
Heating capacity	Total capacity	At high fan speed		kW	2.50	3.20	4.00	5.00	6.30	8.00
Power input - 50Hz	Cooling	At high fan speed		kW	0.051			0.069	0.087	0.108
	Heating	At high fan speed		kW	0.051			0.069	0.087	0.108
Dimensions	Unit	HeightxWidthxDepth		mm	620/720x790x200			620/720x990x200		620/720x1,190x200
Weight	Unit			kg	23.5			27.5		32.0
Casing	Material				Galvanised steel plate					
Fan	Air flow rate - 50Hz	Cooling	At high / medium / low fan speed	m^3/min	7.4/6.4/5.4	8.4/7.4/6.4		10.2/9/7.9	12.9/11.5/10.6	16.4/14.4/12.9
		Heating	At high / medium / low fan speed	m^3/min	7.4/6.4/5.4	8.4/7.4/6.4		10.2/9/7.9	12.9/11.5/10.6	16.4/14.4/12.9
	External static pressure - 50Hz	Factory set / High		Pa	10/41.0		10/42.0	15/52.0	15/59.0	15/55.0
Air filter	Type				Resin net					
Sound power level	Cooling	At high fan speed		dBA	49	51	52.5	51.5	55.5	54.5
Sound pressure level	Cooling	At high / medium / low fan speed		dBA	28/26.5/25	30/28.5/27	31.5/30/28.5	31/29/27	35/33/31	34.5/32.5/30.5
	Heating	At high / medium / low fan speed		dBA	29.5/28/26.5	31/29.5/28	33/31.5/30	32/30/28	36/34/32	35.5/33.5/31.5
Refrigerant	Type/GWP				R-32/675					
Piping connections	Liquid	OD		mm	6.35					9.52
	Gas	OD		mm	12.7					15.9
	Drain				VP20 (I.D. 20/O.D. 26)					
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220					
Current - 50Hz	Maximum fuse amps (MFA)			A	16					
Control systems	Infrared remote control				BRC4C65					
	Wired remote control				BRC1H52W7/S7/K7					

Contains fluorinated greenhouse gases

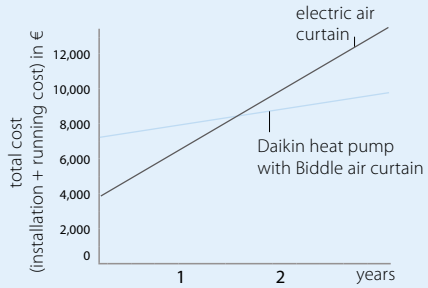


Biddle air curtains

Biddle air curtains provide highly efficient solutions for retailers and consultants to combat the issue of climate separation across their outlet or office doorway.

Benefits of Biddle air curtains

- Connectable to ERQ and VRV units
- Unified range for R-32 and R-410A refrigerant
- Payback period of less then 1.5 years compared to installing an electric air curtain



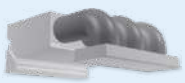
3 different models to choose from:



Free-hanging model (F):
easy wall mounted installation

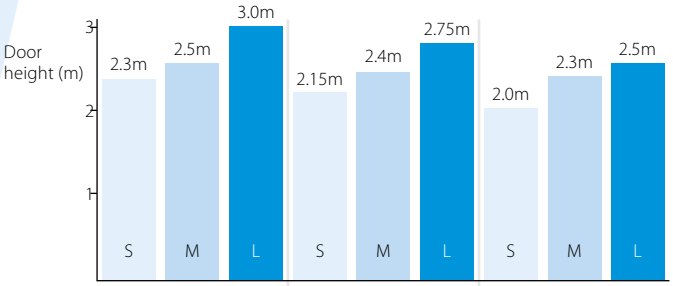


Cassette model (C):
mounted into a false ceiling leaving only the decoration panel visible



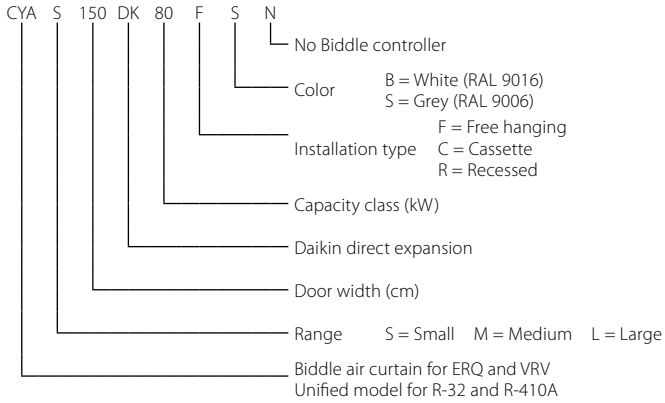
Recessed model (R):
neatly concealed in the ceiling

Select your Biddle air curtain range



Installation condition	Favourable	Normal	Unfavourable
	ex: covered shopping mall or revolving door entrance	ex: little direct wind, no opposite open doors, building with ground floor only	ex: location at a corner or square, multiple floors and / or open stairwell

Biddle air curtain nomenclature



New R-32 range

Biddle air curtain

- Connectable to ERQ and VRV DX outdoor units
- Unified model for R-32 and R-410A refrigerant
- Free-hanging model (F): easy wall mounted installation
- Cassette model (C): mounted into a false ceiling leaving only the decoration panel visible
- Recessed model (R): neatly concealed in the ceiling
- A payback period of less then 1.5 years compared to installing an electric air curtain
- Provides virtually free air curtain heating via recovered heat from indoor units in cooling mode (in case of VRV heat recovery)
- Easy and quick to install at reduced costs since no additional water systems, boilers and gas connections are required



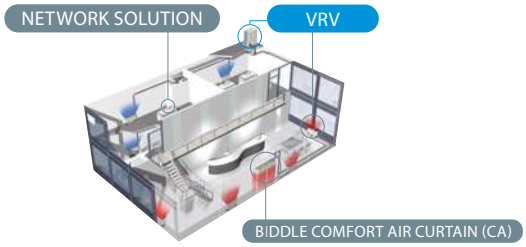
CYA150DK80FSC



CYA150DK80CSC



CYA150DK80RSC



CYA

					Small				Medium			
					CYAS100DK80*	CYAS150DK80*	CYAS200DK100*	CYAS250DK140*	CYAM100DK80*	CYAM150DK80*	CYAM200DK100*	CYAM250DK140*
Heating capacity	Speed 3			kW	6.94	8.6	10.9	15.2	8.65	10.5	12.5	18.6
Power input	Fan only	Nom.		kW	0.14	0.21	0.28	0.36	0.27	0.40	0.53	0.67
	Heating	Nom.		kW	0.14	0.21	0.28	0.36	0.27	0.40	0.53	0.67
Delta T	Speed 3			K	17.7	14.6	13.9	15.5	16	12.9	12.7	13.8
Casing	Colour				B: RAL9016 / S: RAL9006				B: RAL9016 / S: RAL9006			
Dimensions	Unit	Height F/C/R		mm	270/270/270				270/270/270			
		Width F/C/R		mm	1,000/1,000/1,048	1,500/1,500/1,548	2,000/2,000/2,048	2,500/2,500/2,548	1,000/1,000/1,048	1,500/1,500/1,548	2,000/2,000/2,048	2,500/2,500/2,548
		Depth F/C/R		mm	590/821/561				590/821/561			
Required ceiling void >	mm			mm	420				420			
Door height	Max.			m	2.3				2.5			
Door width	Max.			m	1	1.5	2	2.5	1	1.5	2	2.5
Weight	Unit			kg	56/59/61	66/83/88	83/102/108	107/129/137	57/68/66	73/88/93	94/111/117	108/136/144
Fan		Speed 3		m^3/h	1,164	1,746	2,328	2,910	1,605	2,408	2,910	4,013
Sound pressure level	Heating	Speed 3		dBA	47	49	50	51	50	51	53	54
Refrigerant	GWP				675/2,087.5				675/2,087.5			
	Type				R32/R410A				R32/R410A			
Piping connections	Liquid	OD		mm	6.35		9.52		6.35		9.52	
	Gas	OD		mm	12.7		15.9		12.7		15.9	
Air filter	Type				Vacuum cleanable filter G1							
Power supply	Frequency			Hz	50Hz				50Hz			
	Voltage			V	230V				230V			
	Maximum fuse amps (MFA)			A	16				16			

				Large			
				CYAL100DK125*	CYAL150DK200*	CYAL200DK250*	CYAL250DK250*
Heating capacity	Speed 3		kW	14.4	21.5	27.6	29.7
Power input	Fan only	Nom.	kW	0.48	0.72	0.96	1.20
	Heating	Nom.	kW	0.48	0.72	0.96	1.20
Delta T	Speed 3		K	13.8	13.7	13.2	11.4
Casing	Colour			B: RAL9016 / S: RAL9006			
Dimensions	Unit	Height F/C/R	mm	370/370/370			
		Width F/C/R	mm	1,000/1,000/1,048	1,500/1,500/1,548	2,000/2,000/2,048	2,500/2,500/2,548
		Depth F/C/R	mm	774/1,105/745			
Required ceiling void >	mm		mm	520			
Door height	Max.		m	3			
Door width	Max.		m	1	1.5	2	2.5
Weight	Unit		kg	76/81/83	100/118/141	126/151/155	157/190/196
Fan		Speed 3	m^3/h	3,100	4,650	6,200	7,750
Sound pressure level	Heating	Speed 3	dBA	53	54	56	57
Refrigerant	GWP			675/2,087.5			
	Type			R32/R410A			
Piping connections	Liquid	OD	mm	9,522			
	Gas	OD	mm	15.9	19.1	19.1	
Air filter	Type			Vacuum cleanable filter G1			
Power supply	Frequency		Hz	50Hz			
	Voltage		V	230V			
Current	Maximum fuse amps (MFA)		A	16			



CO_2 VRV
The low GWP solution

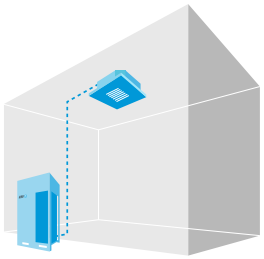
- Portfolio 516
- RXYN-B | CO_2 VRV heat pump NEW 517
- FXFN-B | CO_2 VRV Round Flow cassette NEW 518
- FXSN-B | CO_2 VRV Concealed ceiling unit NEW 519

Benefits of CO_2

- Natural refrigerant
- Low GWP value of 1, making it one of the most sustainable refrigerants
- Classified as non-flammable (A1), simplifying system design

Benefits of CO_2 VRV

- Enabling you to tackle projects requesting natural refrigerants
- Maximise your BREEAM / LEED refrigerant score, thanks to the low GWP of 1
- Incorporates all typical VRV benefits
  - Quick and easy to design and install
  - Precise zone control with quick response to changing load
  - Connectable to Daikin's latest controllers such as Daikin Cloud Plus



DAIKIN CLOUD PLUS



CO_2 VRV installation example for supermarket

CO_2 VRV outdoor unit overview

Capacity class (HP)

	Model			10
	Cooling Capacity			28.0
	Heating Capacity			31.5
Air-cooled heat pump	NEW CO_2 VRV ▪ The low GWP solution - Natural refrigerant - Low GWP of 1 - Non-flammable (A1) refrigerant	RXYN-B		•

CO_2 VRV indoor unit overview

Capacity class

Type	Model		Product name		40	50	63	80
Ceiling mounted cassette	NEW Round flow cassette	**360° air discharge for optimum efficiency and comfort** ▪ Auto cleaning function ensures high efficiency ▪ Intelligent sensors save energy and maximise comfort ▪ Flexibility to suit every room layout ▪ Lowest installation height in the market! ▪ Widest choice ever in decoration panel designs and colors	ROUND FLOW	FXFN-B		•	•	•	•
Concealed ceiling	NEW Concealed ceiling unit with medium ESP	**Slimmest yet most powerfull medium static pressure unit on the market!** ▪ Slimmest unit in class, only 245mm ▪ Low operating sound level ▪ Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths ▪ Automatic air flow adjustment function measures the air volume and static pressure and adjusts it towards the nominal air flow, guaranteeing comfort		FXSN-B		•	•	•	•
Cooling capacity (kW)[1]					4.5	5.6	7.1	9.0
Heating capacity (kW)[2]					5.0	6.3	8.0	10.0

UV Streamer kit

(1) Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m
(2) Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m



CO_2 VRV

The low GWP solution

- Using the natural refrigerant CO_2 (R-744)
- With a low GWP of 1, CO_2 is one of the most sustainable refrigerants
- Non-flammable (A1) refrigerant, simplifying system design
- Incorporates all typical VRV benefits: quick and easy to design and install, precise zone control with quick response to changing load



RXYN10B

RXYN-B

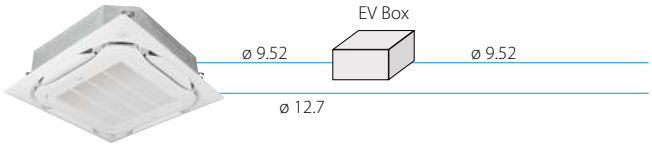
Outdoor unit				RXYN-B	10B
Capacity range			HP		10
Cooling capacity	Prated,c		kW		28.0
Heating capacity	Prated, h		kW		28.0
	Max.		kW		31.5
Recommended combination					4x FXFN63B
ηs,c			%		189.2
ηs,h			%		137.1
SEER					4.8
SCOP					3.5
Maximum number of connectable indoor units					8
Indoor index connection		Min.			125
		Max.			325
Dimensions	HxWxD		mm		1,680x1,930x765
Weight			kg		564
Sound power level	Cooling		dB(A)		83.5
	Heating		dB(A)		83.5
Sound pressure level	Cooling		dB(A)		61
Operation range	Cooling	Min °C	°CDB		-5~43
	Heating	Max °C	°CWB		-20~15.5
Refrigerant	Type/GWP				R744/1
	Charge	tCO2eq/ kg	kg		0
Piping connections	Liquid OD		mm		9.52
	Gas OD		mm		15.9
	Tot. pip. length	Sys. actual	m		300
Power supply	Phase/Freq./ Voltage		Hz/V		3N~/50/380~415
Current - 50Hz	Max. fuse amps (MFA)		A		40

NEW FXFN-B

Round flow cassette

360° air discharge for optimum efficiency and comfort

- Optimised design for CO_2 refrigerant (R-744)
- Optional automatic filter cleaning panel results in higher efficiency & comfort and lower maintenance costs
- Two optional intelligent sensors improve energy efficiency and comfort
- Widest choice ever in decoration panels: designer panels in white (RAL9010) and black (RAL9005) and standard panels in white (RAL9010) with grey louvers or full white
- Bigger flaps and unique swing pattern improve equal air distribution
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- Lowest installation height in the market: 214mm for class 20-63
- UV streamer kit, purifies the air of pollutants such as viruses, bacteria, fine dust (PM1.0), odours, allergens, etc ensuring a healthy and hygenic indoor environment
- Optional fresh air intake
- Standard drain pump with 675mm lift increases flexibility and installation speed



CO_2 Cassette



FXFN-B



BRC1H52W7

Auto cleaning filter

Floor and presence sensor

Whisper quiet

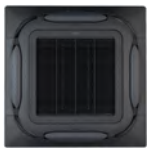
Individual flap control



White panel



White auto cleaning panel



Black panel



Black design panel

FXFN-B

Indoor Unit				FXFN	40B	50B	63B	80B
Cooling capacity	Total capacity	At high fan speed		kW	4.5	5.6	7.1	9
Heating capacity	Total capacity	At high fan speed		kW	5	6.3	8	10
Power input - 50Hz	Cooling	At high fan speed		kW	0.019	0.036	0.067	0.118
	Heating	At high fan speed		kW	0.019	0.036	0.067	0.118
Dimensions	Unit	HeightxWidthxDepth		mm	246x840x840			288x840x840
Weight	Unit			kg	26			29
Casing	Material				Galvanised steel plate			
Decoration panel	Model				Standard panels: BYCQ140E2W1 - white with grey louvers / BYCQ140E2W1W - full white / BYCQ140E2W1B - black Auto cleaning panels: BYCQ140E2GFW1 - white / BYCQ140E2GFW1B - black Designer panels: BYCQ140E2P - white / BYCQ140E2PB - black			
	Dimensions	HeightxWidthxDepth		mm	Standard panels: 65x950x950 / Auto cleaning panels: 148x950x950 / Designer panels: 106x950x950			
	Weight			kg	Standard panels: 5.5 / Auto cleaning panels: 10.3 / Designer panels: 6.5			
Fan	Air flow rate - 50Hz	Cooling - at high fan speed		m^3/min	15.5	21	26.8	35.5
		Heating - at high fan speed		m^3/min	15.5	21	26.8	35.5
Air filter	Type				Resinnet			
Sound power level	Cooling	At high fan speed		dBA	53	57	62	66
Sound pressure level	Cooling	At high fan speed		dBA	35	39	44	48
	Heating	At high fan speed		dBA	36	40	45	49
Refrigerant	Type/GWP				R-744 / 1			
Piping connections	Liquid	OD		mm	9.52			
	Gas	OD		mm	12.7			
	Drain				VP20 (I.D. 20/O.D. 26), drain height 675 mm			
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220			
Current - 50Hz	Maximum fuse amps (MFA)			A	6			
Control systems	Infrared remote control				BRC7FA532F / BRC7FB532F / BRC7FA532FB / BRC7FB532FB			
	Wired remote control				BRC1H52W7/S7/K7			

Specifications			BEV2N-A	BEV2N112A7V1B
Power supply				1~, 50/60Hz, 220~240/220V
Dimension		Height	mm	207
		Wide	mm	388
		Depth	mm	326
Mass		Unit	kg	12 (Tentative)
Refrigerant Type				R744 (CO_2)
Piping connections	Liquid	Type		Brazing
		OD	mm	ø 9.52

NEW FXSN-B

Concealed ceiling unit with medium ESP

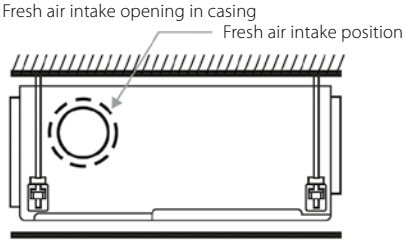
Slimmest yet most powerful medium static pressure unit on the market

- Optimised design for CO_2 refrigerant (R-744)
- Slimmest unit in class, only 245mm (300mm built-in height) and therefore narrow ceiling voids are no longer a challenge



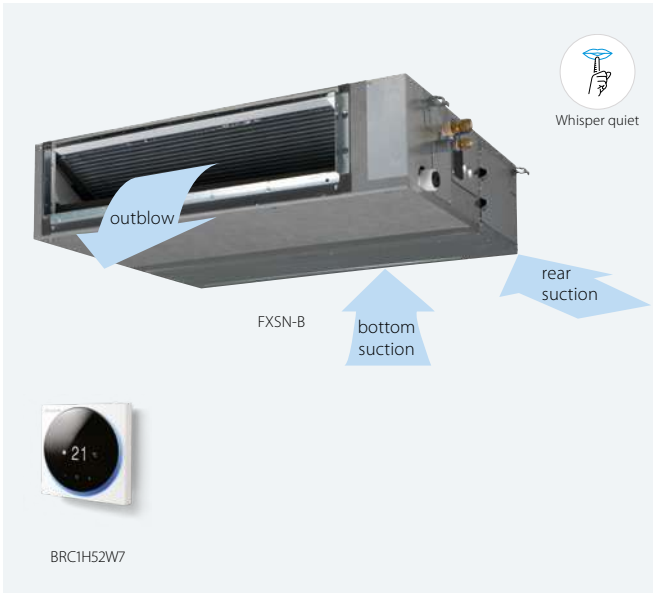
- Quiet operation: down to 25dBA sound pressure level
- Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- Discretely concealed in the wall: only the suction and discharge grilles are visible
- 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- Optional fresh air intake
- Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required
- Standard built-in drain pump with 625mm lift increases flexibility and installation speed

Fresh air intake opening in casing

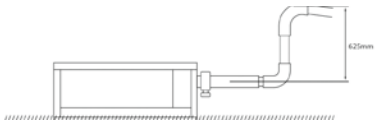


* Brings in up to 10% of fresh air into the room

- Standard built-in drain pump with 625mm lift increases flexibility and installation speed



BRC1H52W7

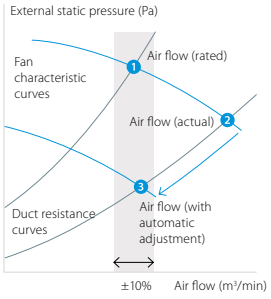


Automatic Airflow Adjustment function

Automatically selects the most appropriate fan curve to achieve the units' nominal air flow within ±10%

Why?

After installation the real ducting will frequently differ from the initially calculated air flow resistance ✳ the real air flow may be much lower or higher than nominal, leading to a lack of capacity or uncomfortable air temperature
Automatic Airflow Adjustment function will adapt the unit's fan speed to any ducting automatically (10 or more fan curves are available on every model), making installation much faster



FXSN-B

Indoor Unit			FXSN	40B	50B	63B	80B
Cooling capacity	Total capacity	At high fan speed	kW	4.5	5.6	7.1	9
Heating capacity	Total capacity	At high fan speed	kW	5	6.3	8	10
Power input - 50Hz	Cooling	At high fan speed	kW	0.128	0.165	0.148	0.279
	Heating	At high fan speed	kW	0.128	0.179	0.16	0.313
Dimensions	Unit	HeightxWidthxDepth	mm	245x1,000x800		245x1,400x800	
Weight	Unit		kg	40		50	
Casing	Material			Galvanised steel plate			
Fan	Air flow rate - 50Hz	Cooling - at high fan speed	m^3/min	23	25	29.4	37.6
		Heating - at high fan speed	m^3/min	23	27	31.9	41.8
	External static pressure - 50Hz	Factory set / High	Pa	30/120			40/120
Air filter	Type			Resin net			
Sound power level	Cooling	At high fan speed	dBA	61	63	61	66
Sound pressure level	Cooling	At high fan speed	dBA	39	41	39	44
	Heating	At high fan speed	dBA	41	44	44	48
Refrigerant	Type/GWP			R-32/675.0			
Piping connections	Liquid	OD	mm	9.52			
	Gas	OD	mm	12.7			
	Drain			VP20 (I.D. 20/O.D. 26), drain height 625 mm			
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/60/220-240/220			
Current - 50Hz	Maximum fuse amps (MFA)		A	16			
Control systems	Infrared remote control			BRC4C65			
	Wired remote control			BRC1H52W7/S7/K7			



VRV IV LOOP BY DAIKIN

- Replacement technology 522
- Water-cooled series 526
- Cold climate series 530
- Invisible series 532
- Domestic Hot Water Series 534
- Aesthetics series 540
- VRV IV indoor units 541

Supporting a circular economy of refrigerants

LOOP BY DAIKIN

Towards a circular economy of refrigerants

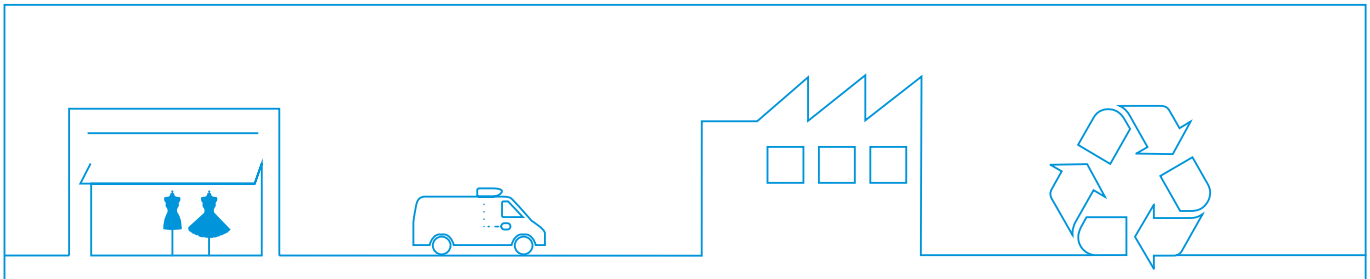
With L∞P by Daikin we want to step away from producing more waste. Instead we will reuse what is already available, in a qualitative way.

- **Saves over 400,000 kg of virgin refrigerant** being produced every year
- Greatly **reduces the CO_2 footprint of refrigerant production by 72%!**

For units produced and sold in Europe

- Exclusive to Daikin reclaimed gas is now used in our units
- Administratively allocated to VRV and chillers produced and sold in Europe

For more information visit
www.daikin.eu/loop-by-daikin



Recover

We recover your **old refrigerant** for you from any unit and any brand.

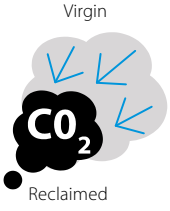
Reclaim

The refrigerant is reclaimed in Europe, meaning regenerated in a **high-quality** way, in line with F-gas regulation definition.

Reuse

The reclaimed refrigerant is mixed with virgin refrigerant. The refrigerant's quality is **certified** by an independent laboratory. It meets AHRI 700 certified standards.

400,000kgs/year



72% lower CO_2 fooprint for production

521



Replacement technology

Replace existing systems in the most cost-effective way

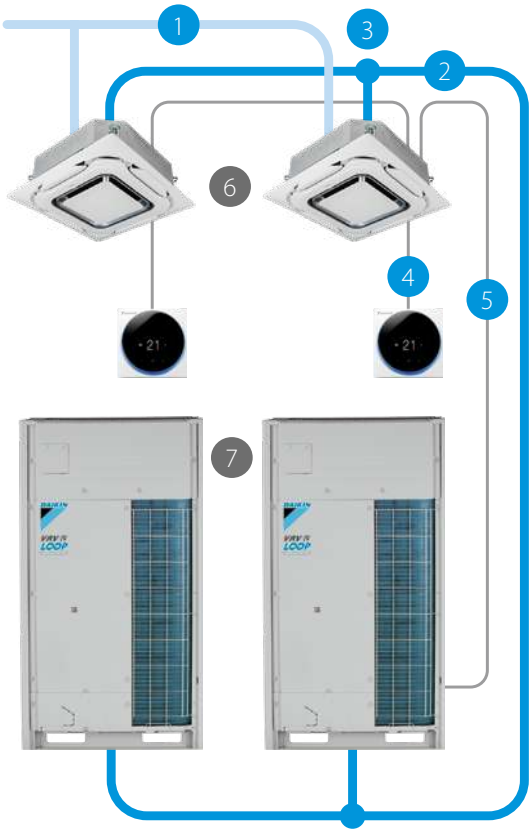
These benefits will convince your customer: Drastically improve efficiency, comfort and reliability

No disturbance of daily operations
- Reuse of existing pipework results in fast installation
- Plan phases for minimal disruption
- Replace any VRF system

Lower installation costs
- Shorter installation time
- Use of existing piping and wiring
- Reuse of materials

Lower investment and reduced running costs
- CAPEX: Lower initial investment
- OPEX: Lower energy consumption and maintenance costs
- Keep your business running seamlessly

Higher property value
- Higher property value
- Improved facilities
  - Subsidies
  - Certifications (BREEAM, LEED and WELL)

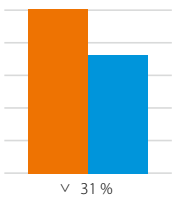


Daikin's solution

1. Reuse drain pipes
2. Reuse refrigerant pipes
3. Reuse refrigerant branch pipes
4. Reuse remote control wiring
5. Reuse indoor-outdoor wiring

Only replace:

6. Indoor units
7. Outdoor units



31 % less energy used



Umeda Central Building, Osaka, Japan.
Replacement with VRV Q-series in 2006–2009. Capacity up from 1,620 to 2,322 HP while keeping the energy consumption the same!

VRV-Q benefits to increase your profit: Optimise your business

Watch our online seminar on replacement VRV now!

Less installation time
Tackle more projects in less time thanks to faster installation. It is more profitable than replacing the full system with new piping.

Lower installation costs
Reducing installation costs enables you to offer customers the most cost-effective solution and improve your competitive edge.

Replace non-Daikin systems

NON DAIKIN > DAIKIN

With VRV Q-series you can also replace non-Daikin systems with exactly the same benefits. Trouble-free and with Daikin expertise.

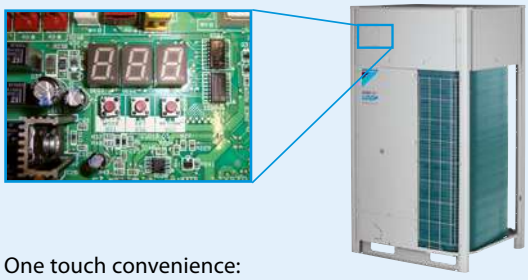
	VRV-Q, keeping indoor units	VRV-Q, replacing indoor units	Completely new installation with VRV 5
Remove outdoor unit	21 %	21 %	21 %
Install new outdoor unit	14 %	14 %	14 %
Clean cooling circuit and leak test	14 %	14 %	14 %
Remove indoor units	–	8 %	8 %
Remove refrigerant pipes and other tasks	–	–	8 %
Install new refrigerant pipes	–	–	14 %
Install new indoor units and other tasks	–	21 %	21 %
Total installation time	**49 %**	**78 %**	**100 %**

Technology insight – Pipe cleaning and automatic refrigerant charging

Pipe cleaning and automatic refrigerant charging ensures a trouble-free operation.

Thanks to the pipe cleaning, possible contamination in the pipes is collected ensuring a trouble-free operation as with a completely new system.

The automatic charging ensures the correct amount of refrigerant is charged, so knowledge of the exact piping layout is not needed!



One touch convenience:
- Measure and charge refrigerant
- Test operation

Replacement VRV, heat recovery

Quick & quality replacement existing systems

- Cost effective and fast replacement as only the outdoor and indoor unit needs to be replaced, meaning almost no work has to be carried out inside the building
- Less intrusive and time consuming installation compared to installing a new system, as the refrigerant piping can be maintained
- Unique automatic refrigerant charge eliminates the need to calculate refrigerant volume and allows safe replacement of competitor replacement
- Automatic cleaning of refrigerant piping ensures a clean piping network, even when a compressor breakdown has occurred
- Possibility to add indoor units and increase capacity without changing the refrigerant piping
- Possibility to spread the various stages of replacement thanks to the modular design of the VRV system



RQCEQ712-848P3

RQCEQ-P3

Outdoor unit System			RQCEQ	280P3	460P3	500P3	540P3	712P3	744P3	816P3
System	Outdoor unit module 1			RQEQ140P3			RQEQ180P3	RQEQ140P3		RQEQ180P3
	Outdoor unit module 2			RQEQ140P3		RQEQ180P3				RQEQ212P3
	Outdoor unit module 3			-	RQEQ180P3				RQEQ212P3	
	Outdoor unit module 4			-				RQEQ212P3		
Capacity range			HP	10	16	18	20	24	26	28
Cooling capacity	Prated,c		kW	28.0	46.0	50.0	54.0	70.0	72.0	78.0
Heating capacity	Prated,h		kW	32.0	52.0	56.0	60.0	78.4	80.8	87.2
Recommended combination				4 x FXMQ63P7VEB	4 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	4 x FXSQ32A2VEB + 8 x FXSQ40A2VEB	12 x FXSQ40A2VEB	4 x FXSQ32A2VEB + 9 x FXSQ40A2VEB + 3 x FXSQ50A2VEB	4 x FXSQ32A2VEB + 6 x FXSQ40A2VEB + 6 x FXSQ50A2VEB	7 x FXSQ40A2VEB + 9 x FXSQ50A2VEB
ηs,c			%	200	191	201	198	194		204
ηs,h			%	159	161	150	148	153	155	
Maximum number of connectable indoor units				21	34	39	43	52	56	60
Indoor index connection	Min.			140	230	250	270	356	372	408
	Nom.			280	500		540	712	744	816
	Max.			364	598	650	702	926	967.0	1,061
Piping connections	Liquid	OD	mm	9.52	12.7	15.9			19.1	
	Gas	OD	mm	22.2	28.6				34.9	
	Total piping length	System Actual	m	300						
Power supply	Phase/Frequency/Voltage		Hz/V	3~/50/400						
Current - 50Hz	Maximum fuse amps (MFA)		A	30	50	60		80		90

Outdoor unit module			RQEQ-P3	140P3	180P3	212P3
Dimensions	Unit	HeightxWidthxDepth	mm	1,680x635x765		
Weight	Unit		kg	175		179
Fan	Air flow rate	Cooling Nom.	m^3/min	95	110	
	Type			Propeller fan		
Sound power level	Cooling	Nom.	dBA	79	83	87
	Heating	According to ENER LOT21	dBA	79	84	
Sound pressure level	Cooling	Nom.	dBA	-		
Operation range	Cooling	Min.~Max.	°CDB	-5~43		
	Heating	Min.~Max.	°CWB	-20~15.5		
Refrigerant	Type/GWP			R-410A/2,087.5		
	Charge		kg/TCO2Eq	10.3/21.5	10.6/22.1	11.2/23.4
Power supply	Phase/Frequency/Voltage		Hz/V	3~/50/380-415		
Current - 50Hz	Maximum fuse amps (MFA)		A	15	20	22.5

Contains fluorinated greenhouse gases

Replacement VRV, heat pump

VRV IV Q+ series



RXYQQ8-12U

LOOP BY DAIKIN

For units made and sold in Europe*

RQYQ-P RXYQQ-U

Outdoor unit				RXYQQ	RQYQ140P	8U	10U	12U	14U	16U	18U	20U
Capacity range				HP	5	8	10	12	14	16	18	20
Cooling capacity	Prated,c			kW	14.0	22.4	28.0	33.5	40.0	45.0	50.4	52.0
Heating capacity	Prated,h			kW	16.0	22.4	28.0	33.5	40.0	45.0	50.4	56.0
	Max.	6°CWB		kW	-	25.0	31.5	37.5	45.0	50.0	56.5	63.0
Recommended combination					4 x FXSQ32A2VEB	BVEB	4 x FXFQ63BVEB	6 x FXFQ50BVEB	1 x FXFQ50BVEB + 5 x FXFQ63BVEB	4 x FXFQ63BVEB + 2 x FXFQ80BVEB	3 x FXFQ50BVEB + 5 x FXFQ63BVEB	2 x FXFQ50BVEB + 6 x FXFQ63BVEB
ηs,c				%	194	302.4	267.6	247.8	250.7	236.5	238.3	233.7
ηs,h				%	137	167.9	168.2	161.4	155.4	157.8	163.1	156.6
SEER					-	7.6	6.8	6.3		6.0		5.9
SCOP					-	4.3		4.1	4.0		4.2	4.0
Maximum number of connectable indoor units					10	64						
Indoor index connection	Min.				62.5	100.0	125.0	150.0	175.0	200.0	225.0	250.0
	Nom.				125	-						
	Max.				162.5	260.0	325.0	390.0	455.0	520.0	585.0	650.0
Dimensions	Unit	HeightxWidthxDepth		mm	1,680x635x765	1,685x930x765			1,685x1,240x765			
Weight	Unit			kg	175	198			275		308	
Fan	Air flow rate	Cooling	Nom.	m^3/min	95	-						
Sound power level	Cooling	Nom.		dBA	79	78.0	79.1	83.4	80.9	85.6	83.8	87.9
	Heating	Prated,h - According to ENER LOT21		dBA	--79	79.6--	80.9--	83.5--	83.1--	86.5--	85.3--	89.8--
Sound pressure level	Cooling	Nom.		dBA	-	57.0		61.0	60.0	63.0	62.0	65.0
Operation range	Cooling	Min.~Max.		°CDB	-5~43	-5.0~43.0						
	Heating	Min.~Max.		°CWB	-20~15.5	-20.0~15.5						
Refrigerant	Type/GWP				R-410A/2,087.5							
	Charge			kg/TCO2Eq	11.1/23.2	5.9/12.3	6.0/12.5	6.3/13.2	10.3/21.5	11.3/23.6	11.7/24.4	11.8/24.6
Piping connections	Liquid	OD		mm	9.52			12.7			15.9	
	Gas	OD		mm	15.9	19.1	22.2	28.6				
	Total piping length	System	Actual	m	300	300						
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/380-415	3N~/50/380-415						
Current - 50Hz	Maximum fuse amps (MFA)			A	15	20	25	32		40		50

Outdoor unit System				RXYQQ	22U	24U	26U	28U	30U	32U	34U	36U	38U	40U	42U
System	Outdoor unit module 1				RXYQQ10U	RXYQQ8U	RXYQQ12U			RXYQQ16U			RXYQQ8U	RXYQQ10U	
	Outdoor unit module 2				RXYQQ12U	RXYQQ16U	RXYQQ14U	RXYQQ16U	RXYQQ18U	RXYQQ16U	RXYQQ18U	RXYQQ20U	RXYQQ10U	RXYQQ12U	RXYQQ16U
	Outdoor unit module 3				-								RXYQQ20U	RXYQQ18U	RXYQQ16U
Capacity range				HP	22	24	26	28	30	32	34	36	38	40	42
Cooling capacity	Prated,c			kW	61.5	67.4	73.5	78.5	83.9	90.0	95.4	97.0	102.4	111.9	118.0
Heating capacity	Prated,h			kW	61.5	67.4	73.5	78.5	83.9	90.0	95.4	101.0	106.4	111.9	118.0
	Max.	6°CWB		kW	69.0	75.0	82.5	87.5	94.0	100.0	106.5	113.0	119.5	125.5	131.5
Recommended combination					6 x FXFQ50BVEB + 4 x FXFQ63BVEB	4 x FXFQ50BVEB + 4 x FXFQ63BVEB + 2 x FXFQ80BVEB	7 x FXFQ50BVEB + 5 x FXFQ63BVEB	6 x FXFQ50BVEB + 4 x FXFQ63BVEB + 2 x FXFQ80BVEB	9 x FXFQ50BVEB + 5 x FXFQ63BVEB	8 x FXFQ63BVEB + 4 x FXFQ80BVEB	3 x FXFQ50BVEB + 9 x FXFQ63BVEB + 2 x FXFQ80BVEB	2 x FXFQ50BVEB + 10 x FXFQ63BVEB + 2 x FXFQ80BVEB	6 x FXFQ50BVEB + 10 x FXFQ63BVEB	9 x FXFQ50BVEB + 9 x FXFQ63BVEB	12 x FXFQ63BVEB + 4 x FXFQ80BVEB
ηs,c				%	274.5	269.9	264.2	257.8	256.8	251.7	253.3	250.8	272.4	263.5	261.2
ηs,h				%	171.2	167.0	164.6	166.0	169.8	163.1	166.2	162.4	167.5	170.0	165.5
SEER					6.9	6.8	6.7	6.5		6.4		6.3	6.9	6.7	6.6
SCOP					4.4	4.3	4.2		4.3	4.2		4.1	4.3		4.2
Maximum number of connectable indoor units					64										
Indoor index connection	Min.				275.0	300.0	325.0	350.0	375.0	400.0	425.0	450.0	475.0	500.0	525.0
	Nom.				-										
	Max.				715.0	780.0	845.0	910.0	975.0	1,040.0	1,105.0	1,170.0	1,235.0	1,300.0	1,365.0
Piping connections	Liquid	OD		mm	15.9		19.1								
	Gas	OD		mm	28.6	34.9						41.3			
	Total piping length	System	Actual	m	300										
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415										
Current - 50Hz	Maximum fuse amps (MFA)			A	63				80				100		

(1) Actual number of connectable indoor units depends on the indoor unit type (VRV indoor, Hydrobox, RA indoor, etc.) and the connection ratio restriction for the system (50% <= CR <= 130%) | Cooling capacity: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0m | Heating capacity: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m | Contains fluorinated greenhouse gases

* EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland

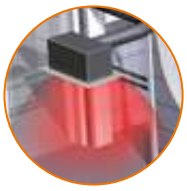


Water-cooled series

Water-to-air heat pump for geothermal and high-rise applications

Components:


Outdoor unit


Indoor unit


Refrigerant piping

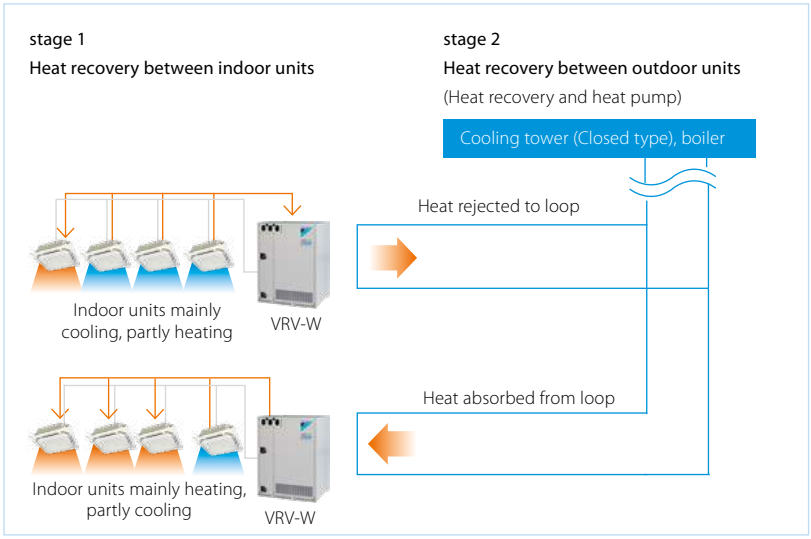

(Geothermal) water loop


Geothermal application

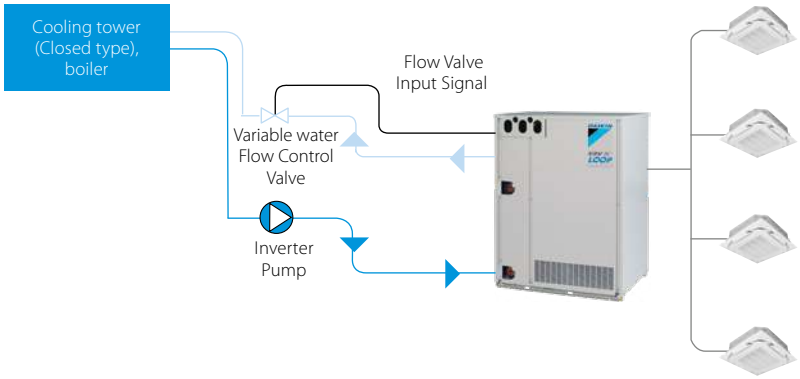
High efficiency

- Superior efficiency, even in the most extreme outside conditions, thanks to geothermal operation
- 2-stage heat recovery: first stage between indoor units, second stage between outdoor units thanks to the storage of energy in the water circuit

2-stage heat recovery



- Reduce excessive energy use of the circulation pump thanks to standard control of inverter driven water pump

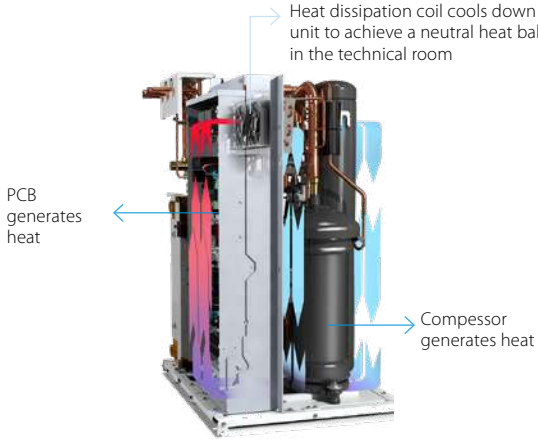


Flexible to design

- No need for ventilation or cooling the technical room thanks to the zero heat dissipation
- Seamless integration in the surrounding architecture as you cannot see the unit
- Highly suited for sound sensitive areas as there is no external operation sound

Zero heat dissipation principle

- No need for ventilation or cooling of the technical room
- Enhancing installation flexibility and reliability of parts



Easy to install and service

- Horizontal and vertical piping connection
- Minimum technical room requirements
- Easy to access all components

Horizontal or vertical piping connection



Minimal technical room space required



Easy access to components

Easy front plate removal



step 1



step 2

Rotating switchbox



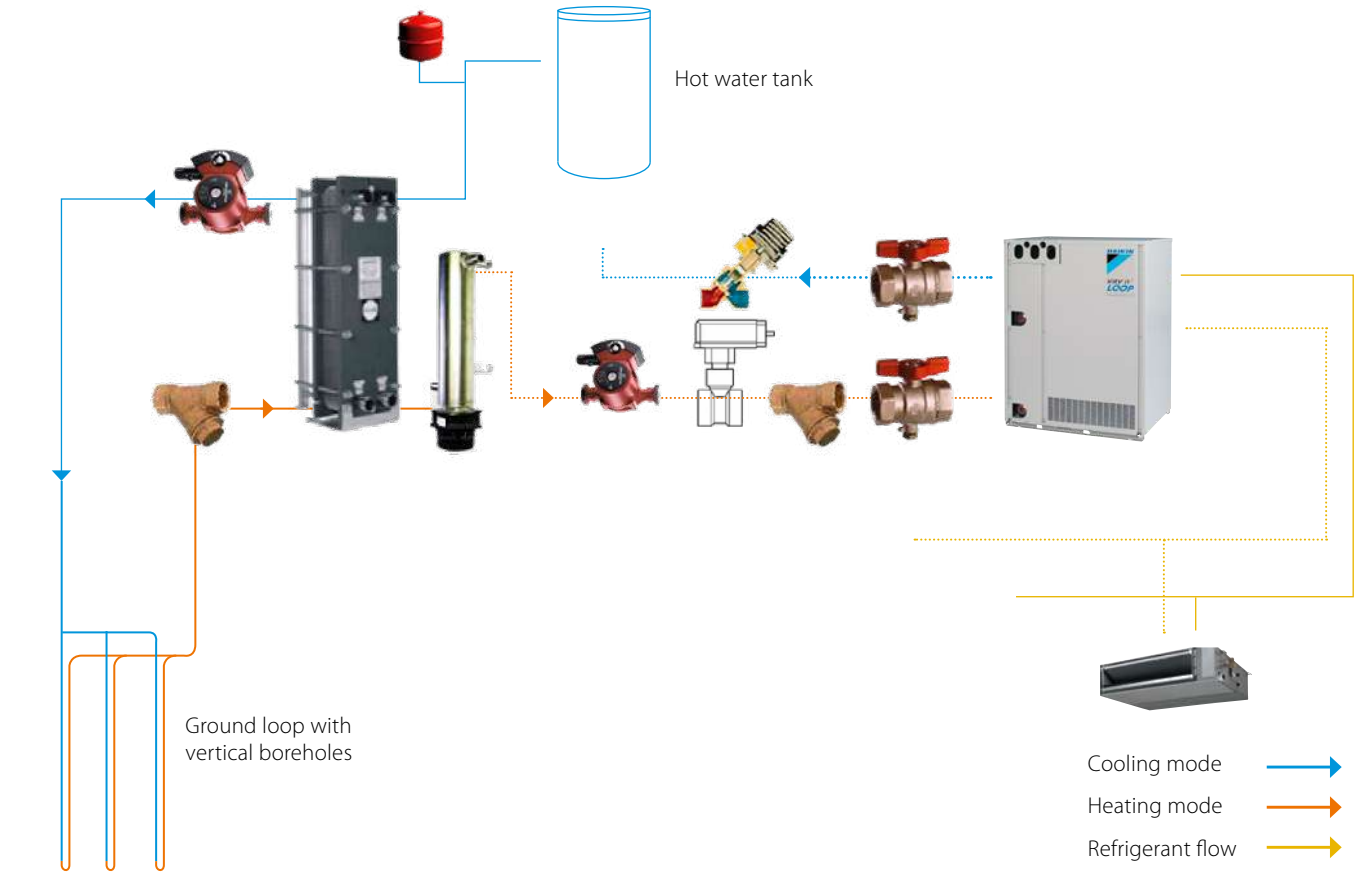
Application example Geothermal operation

Benefits of this setup

- Very energy efficient
- Ground loop can be in service for a very long time, so future equipment upgrades/replacements are easy
- Vertical boreholes provide more stable water temperature (= Constant high efficiency) and do not occupy a lot of ground space.

When to use?

- When the soil is suitable for geothermal loops and there is availability of geothermal installation expertise locally
- For the projects with high requirements to energy efficiency, green building certification oriented



Expansion tank

Liquid heater

Strainer

Circulator Pump

Buffer tank

Heat exchanger

Flow valve or flow control valve

Flow switch

Stop valve

Three way valve

For more application examples click here

Variable Refrigerant Temperature

VRV IV W+ series

VRV IV+ water-cooled series

Ideal for high rise buildings, using water as heat source

RWEYQ-T9

Connectable stylish indoor units

		20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS	60 CLASS	71 CLASS
Daikin Emura - Wall mounted unit	FTXJ-AW/AS/AB	●	●	●	●	●		
Stylish - Wall mounted unit	FTXA-CW/B/S	●	●	●	●	●		
Perfera wall mounted	FTXM-A	●	●	●	●	●	●*	●*
Perfera floor standing	C/FVXM-A9	●	●	●		●		

BPMKS box needed to connect RA indoors to VRV IV+ (RYYQ / RXYQ)
* Units available in August 2024



RWEYQ-T9

LOOP BY DAIKIN

For units made and sold in Europe*

Outdoor unit				RWEYQ	8T9	10T9	12T9	14T9
Capacity range				HP	8	10	12	14
Cooling capacity	Prated,c			kW	22.4	28.0	33.5	40.0
Heating capacity	Prated,h			kW	25.0	31.5	37.5	45.0
	Max.	6°CWB		kW	25.0	31.5	37.5	45.0
Recommended combination					4 x FXMQ50P7VEB	4 x FXMQ63P7VEB	6 x FXMQ50P7VEB	1 x FXMQ50P7VEB + 5 x FXMQ63P7VEB
ηs,c				%	326.8	307.8	359.0	330.7
ηs,h				%	524.3	465.9	436.0	397.1
SEER					8.4	7.9	9.2	8.5
SCOP					13.3	11.8	11.1	10.1
Maximum number of connectable indoor units					64(1)			
Indoor index connection	Min.				100.0	125.0	150.0	175.0
	Max.				300.0	375.0	450.0	525.0
Dimensions	Unit	HeightxWidthxDepth		mm	980x767x560			
Weight	Unit			kg	195		197	
Sound power level	Cooling	Nom.		dBA	65.0	71.0	72.0	74.0
Sound pressure level	Cooling	Nom.		dBA	48.0	50.0	56.0	58.0
Operation range	Inlet water temperature	Cooling	Min.~Max.	°CDB	10~45			
		Heating	Min.~Max.	°CWB	10~45			
	Temperature around casing	Min.~Max.		°CDB	0~40			
	Humidity around casing	Cooling~ Heating	Max.	%	80~80			
Refrigerant	Type/GWP				R-410A/2,087.5			
	Charge			kg/TCO2Eq	7.9/16.5		9.6/20.0	
Piping connections	Liquid	OD		mm	9.52		12.7	
	Gas	OD		mm	19.1	22.2	28.6	
	HP/LP gas	OD		mm	15.9/19.1	19.1/22.2	19.1/28.6	22.2/28.6
	Drain	Size			14mm OD/ 10mm ID			
	Water	Inlet/Outlet	Size		ISO 228-G1 1/4 B/ISO 228-G1 1/4 B			
	Total piping length	System	Actual	m	500			
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415			
Current - 50Hz	Maximum fuse amps (MFA)			A	20		25	

Outdoor unit system			RWEYQ	16T9	18T9	20T9	22T9	24T9	26T9	28T9	30T9	32T9	34T9	36T9	38T9	40T9	42T9
System	Outdoor unit module 1			RWEYQ8T		RWEYQ10T		RWEYQ12T		RWEYQ14T	RWEYQ10T			RWEYQ12T			RWEYQ14T
	Outdoor unit module 2			RWEYQ8T	RWEYQ10T		RWEYQ12T		RWEYQ14T		RWEYQ10T		RWEYQ12T			RWEYQ14T	
	Outdoor unit module 3			-							RWEYQ10T	RWEYQ12T			RWEYQ14T		
Capacity range			HP	16	18	20	22	24	26	28	30	32	34	36	38	40	42
Cooling capacity	Prated,c		kW	44.8	50.4	56.0	61.5	67.0	73.5	80.0	84.0	89.5	95.0	100.5	107.0	113.5	120.0
Heating capacity	Prated,h		kW	50.0	56.5	62.5	69.0	75.0	82.5	90.0	94.5	100.5	106.5	112.5	120.0	127.5	135.0
	Max.	6°CWB	kW	50.0	56.5	62.5	69.0	75.0	82.5	90.0	94.5	100.5	106.5	112.5	120.0	127.5	135.0
Recommended combination				4 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	4 x FXMQ50P7VEB + 4 x FXMQ63P7VEB	8 x FXMQ63P7VEB	6 x FXMQ50P7VEB + 4 x FXMQ63P7VEB	12 x FXMQ50P7VEB	7 x FXMQ50P7VEB + 5 x FXMQ63P7VEB	2 x FXMQ50P7VEB + 10 x FXMQ63P7VEB	12 x FXMQ63P7VEB	6 x FXMQ50P7VEB + 8 x FXMQ63P7VEB	12 x FXMQ50P7VEB + 4 x FXMQ63P7VEB	18 x FXMQ50P7VEB	13 x FXMQ50P7VEB + 5 x FXMQ63P7VEB	8 x FXMQ50P7VEB + 10 x FXMQ63P7VEB	3 x FXMQ50P7VEB + 15 x FXMQ63P7VEB
ηs,c			%	307.6	308.7	298.1	311.3	342.6	322.5	306.1	308.3	318.2	342.5	352.3	338.8	341.4	332.9
ηs,h			%	459.2	491.1	466.8	447.9	434.5	406.9	387.9	467.2	456.1	447.0	438.5	419.4	404.4	391.2
SEER				7.9		7.7	8.0	8.8	8.3	7.9	7.9	8.2	8.8	9.0	8.7		8.5
SCOP				11.7	12.5	11.9	11.4	11.1	10.4	9.9	11.9	11.6	11.4	11.2	10.7	10.3	10.0
Maximum number of connectable indoor units				64(1)							64(1)						
Indoor index connection	Min.			200.0	225.0	250.0	275.0	300.0	325.0	350.0	375.0	400.0	425.0	450.0	475.0	500.0	525.0
	Max.			600.0	675.0	750.0	825.0	900.0	975.0	1,050.0	1,125.0	1,200.0	1,275.0	1,350.0	1,425.0	1,500.0	1,575.0
Piping connections	Liquid	OD	mm	12.7	15.9				19.1		19.1						
	Gas	OD	mm	28.6			34.9				34.9			41.3			
	HP/LP gas	OD	mm	22.2/28.6		28.6/28.6		28.6/34.9			28.6/34.9			28.6/41.3	41.3/34.9		
	Total piping length	System	Actual m	500							500						
Power supply	Phase/Frequency/Voltage		Hz/V	3N~/50/380-415							3N~/50/380-415						
Current - 50Hz	Maximum fuse amps (MFA)		A	32		35	40		50		50	63				80	

(1) Actual number of connectable indoor units depends on the indoor unit type (VRV indoor, Hydrobox, RA indoor, etc.) and the connection ratio restriction for the system (50% <= CR <= 130%) | Cooling capacity: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0m | Heating capacity: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m | Contains fluorinated greenhouse gases
* EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland



RXYLQ-T

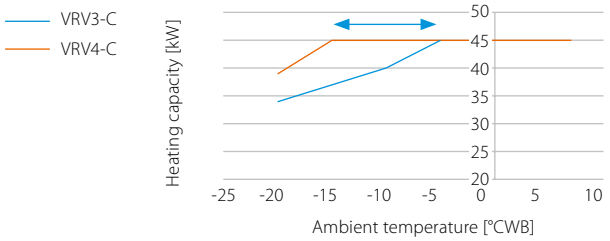
Variable Refrigerant Temperature

Cold climate series

Efficient heating down to -25°C

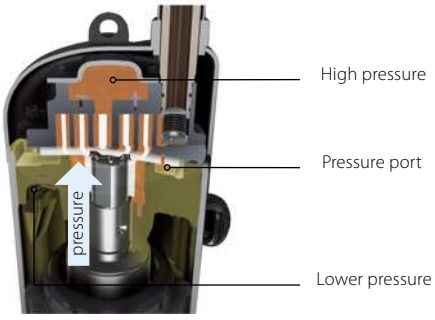
High heating capacity at low ambient temperatures

- Stable heating capacity available down to -15°C WB!



High partial load efficiency

- New vapour injection scroll compressor optimised for low load
  - UNIQUE back-pressure control: Pressure port increases pressure below the scroll in low load operation, preventing refrigerant leak and increasing efficiency
  - UNIQUE Injection structure with check valve: Prevents volume backflow during low load operation typically occuring with standard vapour injection compressors
- Variable Refrigerant Temperature adjusts refrigerant temperature to match the load



High reliability down to -25°C WB

- Hot gas bypass prevents ice buildup at the bottom of the heat exchanger



Variable Refrigerant Temperature

VRV IV C+ series

VRV IV+ heat pump, optimised for heating

Where heating is priority without compromising on efficiency

RXYLQ-T



RXYLQ16-28T

LOOP BY DAIKIN

For units made and sold in Europe*

Connectable stylish indoor units

		20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS	60 CLASS	71 CLASS
Daikin Emura - Wall mounted unit	FTXJ-AW/AS/AB	●	●	●	●	●		
Stylish - Wall mounted unit	FTXA-CW/B/S	●	●	●	●	●		
Perfera wall mounted	FTXM-A	●	●	●	●	●	●*	●*
Perfera floor standing	C/FVXM-A9	●	●	●		●		

BPMKS box needed to connect RA indoors to VRV IV+ (RYYQ / RXYQ)
* Units available in August 2024

Outdoor unit				RXMLQ8T	RXYLQ10T	RXYLQ12T	RXYLQ14T
Capacity range			HP	-	10	12	14
Cooling capacity	Prated,c		kW	-	28.0	33.5	40.0
Heating capacity	Prated,h		kW	-	28.0	33.5	40.0
	Max.	6°CWB	kW	-	31.5	37.5	45.0
Recommended combination				-	4 x FXMQ63P7VEB	6 x FXMQ50P7VEB	1 x FXMQ50P7VEB + 5 x FXMQ63P7VEB
ηs,c			%	-	251.4	274.4	270.1
ηs,h			%	-	144.3	137.6	137.1
SEER				-	6.4	6.9	6.8
SCOP				-	3.7	3.5	
Maximum number of connectable indoor units				-	64(1)		
Indoor index connection	Min.			-	175	210	245
	Nom.			-	250	300	350
	Max.			-	325	390	455
Dimensions	Unit	HeightxWidthxDepth	mm	1,685x1,240x765	1,685x1,240x765		
Weight	Unit		kg	302	302		
Fan	External static pressure	Max.	Pa	78			
Sound power level	Cooling	Nom.	dBA	75.0	77.0	81.0	
Sound pressure level	Cooling	Nom.	dBA	55.0	56.0	59.0	
Operation range	Cooling	Min.~Max.	°CDB	-5~43	-5~43		
	Heating	Min.~Max.	°CWB	-25~16	-25~16		
Refrigerant	Type/GWP			R-410A/2,087.5	R-410A/2,087.5		
	Charge		kg/TCO2Eq	11.8/24.6	11.8/24.6		
Piping connections	Liquid	OD	mm	-	9.52	12.7	
	Gas	OD	mm	-	22.2	28.6	
	Total piping length	System Actual	m	-	500		
Power supply	Phase/Frequency/Voltage		Hz/V	3N~/50/380-415	3N~/50/380-415		
Current - 50Hz	Maximum fuse amps (MFA)		A	20	25	32	

Outdoor unit system		RXYLQ	16T	18T	20T	22T	24T	26T	28T	30T	32T	34T	36T	38T	40T	42T
System	Outdoor unit module 1		RXMLQ8T	RXYLQ10T			RXYLQ12T		RXYLQ14T	RXYLQ10T			RXYLQ12T			RXYLQ14T
	Outdoor unit module 2		RXMLQ8T		RXYLQ10T	RXYLQ12T		RXYLQ14T		RXYLQ10T	RXYLQ12T			RXYLQ14T		
	Outdoor unit module 3		-							RXYLQ10T	RXYLQ12T			RXYLQ14T		
Capacity range		HP	16	18	20	22	24	26	28	30	32	34	36	38	40	42
Cooling capacity	Prated,c	kW	44.8	50.4	56.0	61.5	67.0	73.5	80.0	84.0	89.5	95.0	100.5	107.0	113.5	120.0
Heating capacity	Prated,h	kW	44.8	50.4	56.0	61.5	67.0	73.5	80.0	84.0	89.5	95.0	100.5	107.0	113.5	120.0
	Max. 6°CWB	kW	50.0	56.5	63.0	69.0	75.0	82.5	90.0	94.5	100.5	106.5	112.5	120.0	127.5	135.0
Recommended combination			4 x FXMQ63 P7VEB + 2 x FXMQ80 P7VEB	3 x FXMQ50 P7VEB + 5 x FXMQ63 P7VEB	2 x FXMQ50 P7VEB + 6 x FXMQ63 P7VEB	6 x FXMQ50 P7VEB + 4 x FXMQ63 P7VEB	4 x FXMQ50 P7VEB + 4 x FXMQ63 P7VEB + 2 x FXMQ80 P7VEB	7 x FXMQ50 P7VEB + 5 x FXMQ63 P7VEB	6 x FXMQ50 P7VEB + 4 x FXMQ63 P7VEB + 2 x FXMQ80 P7VEB	9 x FXMQ50 P7VEB + 5 x FXMQ63 P7VEB	8 x FXMQ63 P7VEB + 4 x FXMQ80 P7VEB	3 x FXMQ50 P7VEB + 9 x FXMQ63 P7VEB + 2 x FXMQ80 P7VEB	2 x FXMQ50 P7VEB + 10 x FXMQ63 P7VEB + 2 x FXMQ80 P7VEB	6 x FXMQ50 P7VEB + 10 x FXMQ63 P7VEB	9 x FXMQ50 P7VEB + 9 x FXMQ63 P7VEB	12 x FXMQ63 P7VEB + 4 x FXMQ80 P7VEB
ηs,c		%	261.8	255.7	251.4	263.0	274.4	270.8	270.1	251.4	259.1	266.8	274.4	271.6	270.3	270.1
ηs,h		%	138.0	140.5	144.3	140.3	137.6	137.1		144.3	141.6	139.2	137.6	137.1		
SEER			6.6	6.5	6.4	6.6	6.9	6.8		6.4	6.6	6.7	6.9		6.8	
SCOP			3.5	3.6	3.7	3.6	3.5			3.7	3.6		3.5			
Maximum number of connectable indoor units			64(1)										64(1)			
Indoor index connection	Min.		280	315	350	385	420	455	490	525	560	595	630	665	700	735
	Nom.		400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050
	Max.		520	585	650	715	780	845	910	975	1,040	1,105	1,170	1,235	1,300	1,365
Piping connections	Liquid	OD mm	12.7	15.9				19.1					19.1			
	Gas	OD mm	28.6				34.9			34.9			41.3			
	Total piping length	System Actual m	500										500			
Current - 50Hz	Maximum fuse amps (MFA)	A	40	45	50	60				80				90		

(1) Actual number of connectable indoor units depends on the indoor unit type (VRV indoor, Hydrobox, RA indoor, etc.) and the connection ratio restriction for the system (70% <= CR <= 130%) | Cooling capacity: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0m | Heating capacity: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m | Contains fluorinated greenhouse gases
* EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland



SB.RKXYQ-T(8)

Unique concept with 5 patents

Variable Refrigerant Temperature

Invisible series

Outdoor for indoor installation, when the outdoor unit must be completely invisible

Invisible



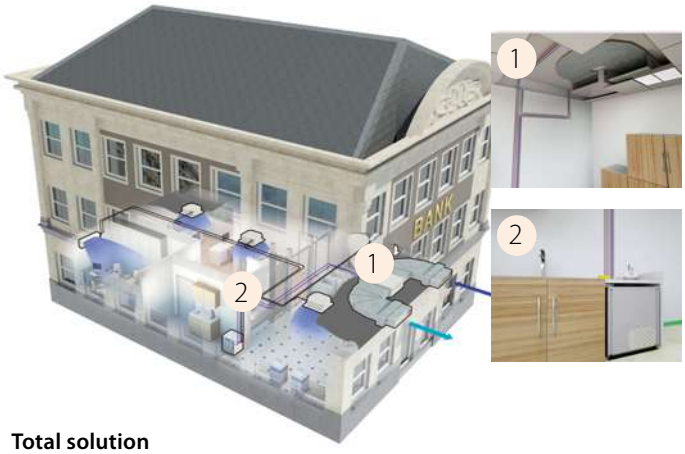


Invisible
- Completely invisible only the grilles are visible
- Seamless integration into surrounding architecture
- Highly suited to densely populated areas thanks to the low operation sound

Intuitive
- Total flexibility as the outdoor unit is split up in 2 parts
- Easy and quick to transport and install by just 2 persons
- Easy servicability, all components can be easily reached

Intelligent
- Patented V-shape heat exchanger for the most compact unit (400 mm high) ever
- Connectable to all VRV indoor units
- Provides a total solution when combined with ventilation units, Biddle air curtains and controls

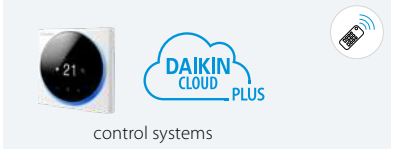
Unique outdoor unit in 2 parts



Total solution



VRV indoor units



control systems



Biddle air curtain and ventilation

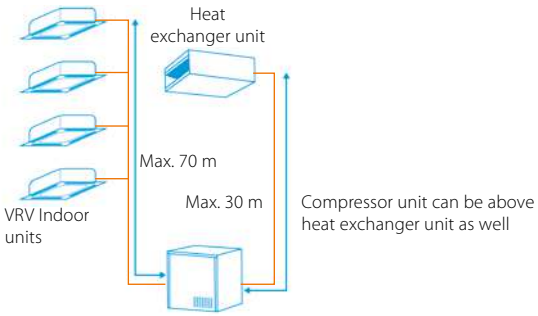
Variable Refrigerant Temperature

VRV IV i-series

VRV IV+ heat pump for indoor installation

The invisible VRV

- Unrivalled flexibility because the unit is split up into two elements: the heat exchanger and the compressor



- Lightweight units (max. 105kg) can be installed by two people
- Unique V-shape heat exchanger results in compact dimensions (h/e unit only 400mm high) allowing false ceiling installation, while ensuring top efficiency
- Super efficient centrifugal fans (over 50% efficiency increase compared to sirocco fan)
- Small footprint compressor unit (760 x 554 mm) maximising useable floor space



SB.RKXYQ5T8

LOOP BY DAIKIN

For units made and sold in Europe*

SB.RKXYQ-T SB.RKXYQ-T8

Outdoor unit system				SB.RKXYQ	5T8	8T
System	Heat exchanger unit				RDXYQ5T8	RDXYQ8T
	Compressor unit				RKXYQ5T8	RKXYQ8T
Capacity range				HP	5	8
Cooling capacity	Prated,c			kW	14.0	22.4
Heating capacity	Prated,h			kW	10.4	12.9
	Max.	6°CWB		kW	16.0	25.0
Recommended combination					4x FXSQ32A2VEB	4x FXMQ50P7VEB
ηs,c				%	200.1	191.1
ηs,h				%	149.3	140.9
SEER					5.1	4.9
SCOP					3.8	3.6
Maximum number of connectable indoor units					10 (1)	17 (1)
Indoor index connection	Min.				62.5	100.0
	Max.				162.5	260.0
Piping connections	Between Compressor module (CM) and heat exchanger module (HM)	Liquid	OD	mm	12.7	
		Gas	OD	mm	19.1	22.2
	Between Compressor module (CM) and indoor units (IU)	Liquid	OD	mm	9.52	
		Gas	OD	mm	15.9	19.1
	Total piping length	System	Actual	m	140	300

					Heat exchanger module - RDXYQ		Compressor module - RKXYQ	
Outdoor unit module					**5T8**	**8T**	**5T8**	**8T**
Dimensions	Unit	HeightxWidthxDepth		mm	397x1,456x1,044		701x600x554	701x760x554
Weight	Unit			kg	95	103	79	105
Sound power level	Cooling	Nom.		dBA	77.0	81.0	60.0	64.0
Sound pressure level	Cooling	Nom.		dBA	47.0	54.0	47.0	48.0
Refrigerant	Type/GWP				R-410A/-		R-410A/2,087.5	
	Charge			kg/TCO2Eq	-/-		2.00/4.20	4.00/8.35
Power supply	Phase/Frequency/Voltage			Hz/V	1N~/50/220-240		3N~/50/380-415	
Current - 50Hz	Maximum fuse amps (MFA)			A	10		16	20

(1) Actual number of units depends on the indoor unit type (VRV DX indoor, etc.) and the connection ratio restriction for the system (being; 50% ≤ CR ≤ 130%). | Cooling capacity: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0m | Heating capacity: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m



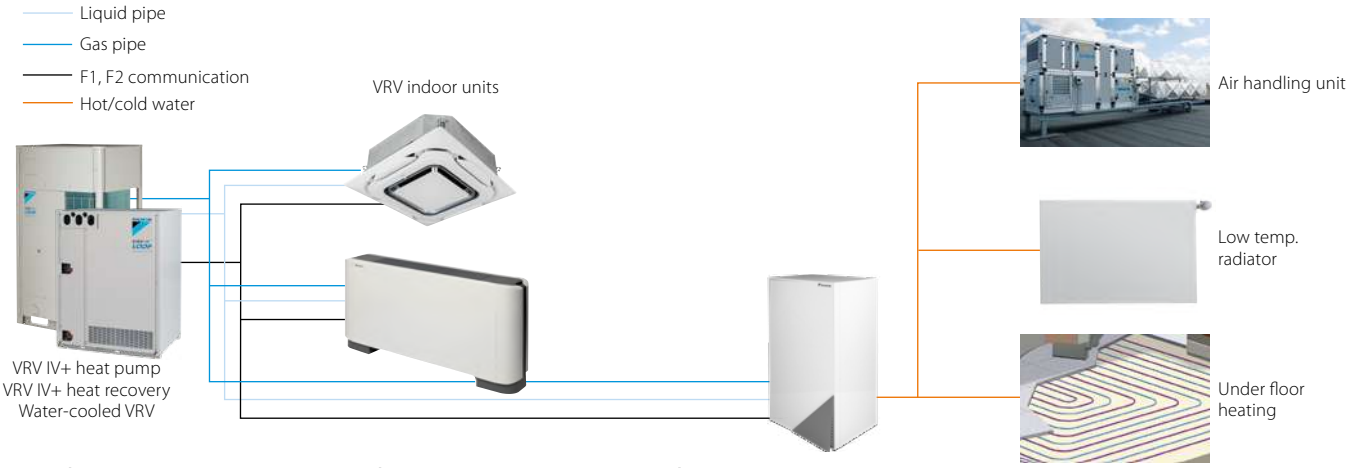
Domestic hot water series

Outdoor units connecting to hydroboxes

- For efficient hot water production and space heating
- No more fossil fuels need on-site
- DX hydroboxes save time on system design as all water-side components are fully integrated with direct control over leaving water temperature

Low temperature hot water production

- Air to water connection to VRV for applications such as underfloor, air handling units, low temperature radiators, …
- Leaving water temperature range from 5°C to 45°C without electric heater
- In combination with VRV IV+ Heat pump and water-cooled unit



High temperature hot water production

- Air to water connection to VRV for applications such as bathrooms, sinks, underfloor heating, radiators and air handling units
- Leaving water temperature range from 25 to 80°C without electric heater
- „Free" heating and hot water production provided by transferring heat from areas requiring cooling to areas requiring heating or hot water
- Possibility to connect thermal solar collectors to the domestic hot water tank
- In combination with VRV IV+ Heat pump and water-cooled unit



HXY-A8

Low temperature hydrobox for VRV

For high efficiency space heating and cooling

HXY-A8



HXY-A8

Indoor Unit				HXY	080A8	125A8
Cooling capacity	Nom.			kW	8.0 (1)	12.5 (1)
Heating capacity	Nom.			kW	9.00 (2)	14.00 (2)
Casing	Colour				White	
	Material				Precoated sheet metal	
Dimensions	Unit	HeightxWidthxDepth		mm	890x480x344	
Weight	Unit			kg	44.0	
Operation range	Heating	Ambient	Min.~Max.	°C	-20 ~24	
		Water side	Min.~Max.	°C	25 ~45	
	Cooling	Ambient	Min.~Max.	°CDB	10 ~43	
		Water side	Min.~Max.	°C	5 ~20	
Refrigerant	Type				R-410A	
	GWP				2,087.5	
Sound pressure level	Nom.			dBA	31	
Refrigerant circuit	Gas side diameter			mm	15.9	
	Liquid side diameter			mm	9.5	
Water circuit	Piping connections diameter			inch	G 1"1/4 (female)	
Power supply	Phase / Frequency / Voltage			Hz/V	1~ / 50 / 220-240	
Current	Recommended fuses			A	6~16	

(1) Tamb 35°C - LWE 18°C (DT=5°C) | (2) DB/WB 7°C/6°C - LWC 35°C (DT=5°C) | Contains fluorinated greenhouse gases

HXHD-A8

High temperature hydrobox for VRV

For efficient hot water production and space heating

HXHD-A8



HXHD-A8



EKHWP-B



EKHWP-B

Indoor Unit				HXHD	125A8	200A8
Heating capacity	Nom.			kW	14.0	22.4
Casing	Colour				Metallic grey	
	Material				Precoated sheet metal	
Dimensions	Unit	HeightxWidthxDepth		mm	705x600x695	
Weight	Unit			kg	92.0	147
Operation range	Heating	Ambient	Min.~Max.	°C	-20.0~20(3)/20	
		Water side	Min.~Max.	°C	25~80.0	
	Domestic hot water	Ambient	Min.~Max.	°CDB	-20.0~43.0	
		Water side	Min.~Max.	°C	45~75	
Refrigerant	Type / GWP				R-134a/1,430	
	Charge			kg	2.00	2.60
Sound power level	Nom.			dBA	55.0(1)	60.0(1)
Sound pressure level	Nom.			dBA	42.0(1)/43.0(2)	46.0(1)/46.0(2)
	Night quiet mode	Level 1		dBA	38(1)	45(1)
Water circuit	Piping connections diameter			inch	G 1" (female)	
	Heating water system	Water volume	Max. ~ Min.	l	200~20	400~20
Power supply	Phase / Frequency / Voltage			Hz/V	1~ / 50 / 220-240	3~ / 50 / 380-415
Current	Recommended fuses			A	20	16

(1) Sound levels are measured at: EW 55°C; LW 65°C | (2)Sound levels are measured at: EW 70°C; LW 80°C | (3)Field setting | Contains fluorinated greenhouse gases

Variable Refrigerant Temperature

VRV IV+

VRV IV+ heat pump

Daikin's optimum solution with top comfort

RYYQ-U RXYQ-U



RYYQ8-12U

LOOP BY DAIKIN

For units made and sold in Europe*

					RYMQ							RYYQ/RXYQ						
Outdoor unit					**8U***	**10U***	**12U***	**14U***	**16U***	**18U***	**20U***	**8U***	**10U***	**12U***	**14U***	**16U***	**18U***	**20U***
Capacity range				HP	-							8	10	12	14	16	18	20
Cooling capacity	Prated,c			kW	-							22.4	28.0	33.5	40.0	45.0	50.4	52.0
Heating capacity	Prated,h			kW	-							22.4	28.0	33.5	40.0	45.0	50.4	56.0
	Max.	6°CWB		kW	-							25.0	31.5	37.5	45.0	50.0	56.5	63.0
Recommended combination					-							4 x FXFQ50BVEB	4 x FXFQ63BVEB	6 x FXFQ50BVEB	1 x FXFQ50BVEB + 5 x FXFQ63BVEB	4 x FXFQ63BVEB + 2 x FXFQ80BVEB	3 x FXFQ50BVEB + 5 x FXFQ63BVEB	2 x FXFQ50BVEB + 6 x FXFQ63BVEB
ηs,c				%	-							302.4	267.6	247.8	250.7	236.5	238.3	233.7
ηs,h				%	-							167.9	168.2	161.4	155.4	157.8	163.1	156.6
SEER					-							7.6	6.8	6.3		6.0		5.9
SCOP					-							4.3		4.1	4.0		4.2	4.0
Maximum number of connectable indoor units					-							64(1)						
Indoor index	Min.				-							100.0	125.0	150.0	175.0	200.0	225.0	250.0
connection	Max.				-							260.0	325.0	390.0	455.0	520.0	585.0	650.0
Dimensions	Unit	HeightxWidthxDepth		mm	1,685x930x765			1,685x1,240x765				1,685x930x765			1,685x1,240x765			
Weight	Unit			kg	RYMQ-U: 198/ RYMQ-U5: 204			RYMQ-U: 275/ RYMQ-U5: 283		RYMQ-U: 308/ RYMQ-U5: 320		RXYQ-U: 198 RXYQ-U5/UD: 201 RYYQ: 252			RXYQ-U: 275 RXYQ-U5/UD: 281 RYYQ: 319		RXYQ-U: 308 RXYQ-U5/UD: 314 RYYQ: 378	
Fan	External static pressure	Max.		Pa	78							-						
Sound power level	Cooling	Nom.		dBA	78.0	79.1	83.4	80.9	85.6	83.8	87.9	78.0	79.1	83.4	80.9	85.6	83.8	87.9
	Heating	Prated,h		dBA	-							79.6	80.9	83.5	83.1	86.5	85.3	89.8
Sound pressure level	Cooling	Nom.		dBA	57.0	57.0	61.0	60.0	63.0	62.0	65.0	57.0		61.0	60.0	63.0	62.0	65.0
Operation range	Cooling	Min.~Max.		°CDB	-5.0~43.0							-5.0~43.0						
	Heating	Min.~Max.		°CWB	-20.0~15.5							-20.0~15.5						
Refrigerant	Type/GWP				R-410A/2,087.5							R-410A/2,087.5						
	Charge			kg/TCO2Eq	5.9/12.3	6.0/12.5	6.3/13.2	10.3/21.5	11.3/23.6	11.7/24.4	11.8/24.6	5.9/12.3	6.0/12.5	6.3/13.2	10.3/21.5	RXYQ: 11.3/23.6 RYYQ: 10.4/21.7	11.7/24.4	11.8/24.6
Piping connections	Liquid	OD		mm	9.52		12.7			15.9		9.52		12.7			15.9	
	Gas	OD		mm	19.1	22.2	28.6					19.1	22.2	28.6				
	Equalising pipe	OD		mm	19.1	22.2				28.6		-						
	Total piping length	System	Actual	m	-							1,000						
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415							3N~/50/380-415						
Current - 50Hz	Maximum fuse amps (MFA)			A	20	25	32	32	40	40	50	20	25	32		40		50

Outdoor unit system		**RYYQ/RXYQ**	**22U***	**24U***	**26U***	**28U***	**30U***	**32U***	**34U***	**36U***	**38U***
System	Outdoor unit module 1		10	8	12			16			8
	Outdoor unit module 2		12	16	14	16	18	16	18	20	10
	Outdoor unit module 3		-								20
Capacity range		HP	22	24	26	28	30	32	34	36	38
Cooling capacity	Prated,c	kW	61.5	67.4	73.5	78.5	83.9	90.0	95.4	97.0	102.4
Heating capacity	Prated,h	kW	61.5	67.4	73.5	78.5	83.9	90.0	95.4	101.0	106.4
	Max. 6°CWB	kW	69.0	75.0	82.5	87.5	94.0	100.0	106.5	113.0	119.5
Recommended combination			6 x FXFQ50BVEB + 4 x FXFQ63BVEB	4 x FXFQ50BVEB + 4 x FXFQ63BVEB + 2 x FXFQ80BVEB	7 x FXFQ50BVEB + 5 x FXFQ63BVEB	6 x FXFQ50BVEB + 4 x FXFQ63BVEB + 2 x FXFQ80BVEB	9 x FXFQ50BVEB + 5 x FXFQ63BVEB	8 x FXFQ63BVEB + 4 x FXFQ80BVEB	3 x FXFQ50BVEB + 9 x FXFQ63BVEB + 2 x FXFQ80BVEB	2 x FXFQ50BVEB + 10 x FXFQ63BVEB + 2 x FXFQ80BVEB	6 x FXFQ50BVEB + 10 x FXFQ63BVEB
ηs,c		%	274.5	269.9	264.2	257.8	256.8	251.7	253.3	250.8	272.4
ηs,h		%	171.2	167.0	164.6	166.0	169.8	163.1	166.2	162.4	167.5
SEER			6.9	6.8	6.7	6.5		6.4		6.3	6.9
SCOP			4.4	4.3	4.2		4.3	4.2		4.1	4.3
Maximum number of connectable indoor units			64(1)								
Indoor index	Min.		275.0	300.0	325.0	350.0	375.0	400.0	425.0	450.0	475.0
connection	Max.		715.0	780.0	845.0	910.0	975.0	1,040.0	1,105.0	1,170.0	1,235.0
Piping connections	Liquid OD	mm	15.9		19.1						
	Gas OD	mm	28.6	34.9						41.3	
	Total piping length System Actual	m	1,000								
Power supply	Phase/Frequency/Voltage	Hz/V	3N~/50/380-415								
Current - 50Hz	Maximum fuse amps (MFA)	A	63				80				100

Outdoor unit system		**RYYQ/RXYQ**	**40U***	**42U***	**44U***	**46U***	**48U***	**50U***	**52U***	**54U***
System	Outdoor unit module 1		10		12	14	16			18
	Outdoor unit module 2		12	16					18	
	Outdoor unit module 3		18		16			18		
Capacity range		HP	40	42	44	46	48	50	52	54
Cooling capacity	Prated,c	kW	111.9	118.0	123.5	130.0	135.0	140.4	145.8	151.2
Heating capacity	Prated,h	kW	111.9	118.0	123.5	130.0	135.0	140.4	145.8	151.2
	Max. 6°CWB	kW	125.5	131.5	137.5	145.0	150.0	156.5	163.0	169.5
Recommended combination			9 x FXFQ50AVEB + 9 x FXFQ63AVEB	12 x FXFQ63AVEB + 4 x FXFQ80AVEB	6 x FXFQ50AVEB + 8 x FXFQ63AVEB + 4 x FXFQ80AVEB	1 x FXFQ50AVEB + 13 x FXFQ63AVEB + 4 x FXFQ80AVEB	12 x FXFQ63AVEB + 6 x FXFQ80AVEB	3 x FXFQ50AVEB + 13 x FXFQ63AVEB + 4 x FXFQ80AVEB	6 x FXFQ50AVEB + 14 x FXFQ63AVEB + 2 x FXFQ80AVEB	9 x FXFQ50AVEB + 15 x FXFQ63AVEB
ηs,c		%	263.5	261.2	255.9	254.9	251.7	252.8	253.7	254.1
ηs,h		%	170.0	165.5	164.5	162.0	162.8	165.2	167.2	169.4
SEER			6.7	6.6	6.5			6.4		
SCOP			4.3	4.2		4.1		4.2	4.3	
Maximum number of connectable indoor units			64(1)							
Indoor index	Min.		500.0	525.0	550.0	575.0	600.0	625.0	650.0	675.0
connection	Max.		1,300.0	1,365.0	1,430.0	1,495.0	1,560.0	1,625.0	1,690.0	1,755.0
Piping connections	Liquid OD	mm	19.1							
	Gas OD	mm	41.3							
	Total piping length System Actual	m	1,000							
Power supply	Phase/Frequency/Voltage	Hz/V	3N~/50/380-415							
Current - 50Hz	Maximum fuse amps (MFA)	A	100				125			

(1) Actual number of connectable indoor units depends on the indoor unit type (VRV indoor, Hydrobox, RA indoor, etc.) and the connection ratio restriction for the system (50% <= CR <= 130%) | Cooling capacity: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0m | Heating capacity: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0mContains fluorinated greenhouse gases

* Depending on the region different model codes are sold: Continuous heating: RYYQ-U, RYYQ-U5, RYMQ-U, RYMQ-U5, standard heat pump RXYQ-U, RXYQ-U5, RXYQ-UD

** U and U5 models in EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland

Variable Refrigerant Temperature

VRV IV+

VRV IV+ heat recovery

Best efficiency & comfort solution

REYQ-U



REYQ10,13,16,18,20,22U

LOOP BY DAIKIN

For units made and sold in Europe*

Outdoor unit					REMQ5U	REYQ8U	REYQ10U	REYQ12U	REYQ14U	REYQ16U	REYQ18U	REYQ20U
Capacity range				HP	-	8	10	12	14	16	18	20
Cooling capacity	Prated,c			kW	-	22.4	28.0	33.5	40.0	45.0	50.4	52.0
Heating capacity	Prated,h			kW	-	22.4	28.0	33.5	40.0	45.0	50.4	56.0
	Max.	6°CWB		kW	-	25.0	31.5	37.5	45.0	50.0	56.5	63.0
Recommended combination					-	4 x FXFQ50BVEB	4 x FXFQ63BVEB	6 x FXFQ50BVEB	1 x FXFQ50BVEB + 5 x FXFQ63BVEB	4 x FXFQ63BVEB + 2 x FXFQ80BVEB	3 x FXFQ50BVEB + 5 x FXFQ63BVEB	2 x FXFQ50BVEB + 6 x FXFQ63BVEB
ηs,c				%	-	286.1	264.8	257.0	255.8	243.1	250.6	246.7
ηs,h				%	-	165.1	169.7	183.8	168.3	167.5	172.5	162.7
SEER					-	7.2	6.7	6.5		6.2	6.3	6.2
SCOP					-	4.2	4.3	4.7	4.3		4.4	4.1
Maximum number of connectable indoor units					-	64(1)						
Indoor index connection	Min.				-	100.0	125.0	150.0	175.0	200.0	225.0	250.0
	Max.				-	260.0	325.0	390.0	455.0	520.0	585.0	650.0
Dimensions	Unit	HeightxWidthxDepth		mm	1,685x930x765	1,685x930x765			1,685x1,240x765			
Weight	Unit			kg	230	230			314		317	
Fan	External static pressure	Max.		Pa	78							
Sound power level	Cooling	Nom.		dBA	78.0	78.0	79.1	83.4	80.9	85.6	83.8	87.9
	Heating	Prated,h		dBA	57.0	79.6	80.9	83.5	83.9	86.9	85.3	89.8
Sound pressure level	Cooling	Nom.		dBA	-	57.0		61.0	60.0	63.0	62.0	65.0
Operation range	Cooling	Min.~Max.		°CDB	-5.0~43.0	-5.0~43.0						
	Heating	Min.~Max.		°CWB	-20.0~15.5	-20.0~15.5						
Refrigerant	Type/GWP				R-410A/2,087.5	R-410A/2,087.5						
	Charge			kg/TCO2Eq	9.7/20.2	9.7/20.2	9.8/20.5	9.9/20.7	11.8/24.6			
Piping connections	Liquid	OD		mm	-	9.52			12.7		15.9	
	Gas	OD		mm	-	19.1	22.2		28.6			
	HP/LP gas	OD		mm	-	15.9	19.1		22.2			28.6
	Total piping length	System	Actual	m	-	1,000						
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415	3N~/50/380-415						
Current - 50Hz	Maximum fuse amps (MFA)			A	20	20	25	32		40		50

Outdoor unit System		REYQ	10U	13U	16U	18U	20U	22U	24U	26U	28U	30U	32U
System	Outdoor unit module 1		REMQ5U			REYQ8U		REYQ10U	REYQ8U		REYQ12U		REYQ16U
	Outdoor unit module 2		REMQ5U	REYQ8U		REYQ10U	REYQ12U		REYQ16U	REYQ14U	REYQ16U	REYQ18U	REYQ16U
Capacity range		HP	10	13	16	18	20	22	24	26	28	30	32
Cooling capacity	Prated,c	kW	28.0	36.4	44.8	50.4	55.9	61.5	67.4	73.5	78.5	83.9	90.0
Heating capacity	Prated,h	kW	28.0	36.4	44.8	50.4	55.9	61.5	67.4	73.5	78.5	83.9	90.0
	Max. 6°CWB	kW	32.0	41.0	50.0	56.5	62.5	69.0	75.0	82.5	87.5	94.0	100.0
Recommended combination			4 x FXFQ63BVEB	3 x FXFQ50BVEB + 3 x FXFQ63BVEB	4 x FXFQ63BVEB + 2 x FXFQ80BVEB	4 x FXFQ50BVEB + 4 x FXFQ63BVEB	10 x FXFQ50BVEB	6 x FXFQ50BVEB + 4 x FXFQ63BVEB	4 x FXFQ50BVEB + 4 x FXFQ63BVEB + 2 x FXFQ80BVEB	7 x FXFQ50BVEB + 5 x FXFQ63BVEB	6 x FXFQ50BVEB + 4 x FXFQ63BVEB + 2 x FXFQ80BVEB	9 x FXFQ50BVEB + 5 x FXFQ63BVEB	8 x FXFQ63BVEB + 4 x FXFQ80BVEB
ηs,c		%	275.1	301.3	288.6	272.9	266.0	260.4	257.7	257.5	251.9	266.8	243.1
ηs,h		%	158.8	160.6	168.2	167.9	175.7	178.5	167.6	175.5	174.8	179.4	169.1
SEER			7.0	7.6	7.3	6.9	6.7	6.6	6.5		6.4	6.7	6.2
SCOP			4.0	4.1	4.3		4.5		4.3	4.5	4.4	4.6	4.3
Maximum number of connectable indoor units			64 (1)										
Indoor index connection	Min.		125.0	163.0	200.0	225.0	250.0	275.0	300.0	325.0	350.0	375.0	400.0
	Max.		325.0	423.0	520.0	585.0	650.0	715.0	780.0	845.0	910.0	975.0	1,040.0
Piping connections	Liquid OD	mm	9.5	12.7		15.9				19.1			
	Gas OD	mm	22.2	28.6					34.9				
	HP/LP gas OD	mm	19.1		22.2		28.6						
	Total piping length System Actual	m	500					1,000					
Power supply	Phase/Frequency/Voltage	Hz/V	3N~/50/380-415										
Current - 50Hz	Maximum fuse amps (MFA)	A	40			50		63				80	

Outdoor unit System		REYQ	34U	36U	38U	40U	42U	44U	46U	48U	50U	52U	54U
System	Outdoor unit module 1		REYQ16U		REYQ8U	REYQ10U		REYQ12U	REYQ14U		REYQ16U		REYQ18U
	Outdoor unit module 2		REYQ18U	REYQ20U	REYQ12U			REYQ16U				REYQ18U	
	Outdoor unit module 3		-		REYQ18U		REYQ16U				REYQ18U		
Capacity range		HP	34	36	38	40	42	44	46	48	50	52	54
Cooling capacity	Prated,c	kW	95.4	97.0	106.3	111.9	118.0	123.5	130.0	135.0	140.4	145.8	151.2
Heating capacity	Prated,h	kW	95.4	101.0	106.4	111.9	118.0	123.5	130.0	135.0	140.4	145.8	151.2
	Max. 6°CWB	kW	106.5	113.0	119.0	125.5	131.5	137.5	145.0	150.0	156.5	163.0	169.5
Recommended combination			3 x FXFQ50BVEB + 9 x FXFQ63BVEB + 2 x FXFQ80BVEB	2 x FXFQ50BVEB + 10 x FXFQ63BVEB + 2 x FXFQ80BVEB	6 x FXFQ50BVEB + 10 x FXFQ63BVEB	9 x FXFQ50BVEB + 9 x FXFQ63BVEB	12 x FXFQ63BVEB + 4 x FXFQ80BVEB	6 x FXFQ50BVEB + 8 x FXFQ63BVEB + 4 x FXFQ80BVEB	1 x FXFQ50BVEB + 13 x FXFQ63BVEB + 4 x FXFQ80BVEB	12 x FXFQ63BVEB + 6 x FXFQ80BVEB	3 x FXFQ50BVEB + 13 x FXFQ63BVEB + 4 x FXFQ80BVEB	6 x FXFQ50BVEB + 14 x FXFQ63BVEB + 2 x FXFQ80BVEB	9 x FXFQ50BVEB + 15 x FXFQ63BVEB
ηs,c		%	259.2	255.3	269.2	259.6	250.2	249.3	246.8	243.1	254.4	265.7	275.2
ηs,h		%	172.0	166.3	176.0	176.1	167.8	171.9	168.8	168.5	170.3	171.7	173.3
SEER			6.6	6.5	6.8	6.6	6.3		6.2		6.4	6.7	7.0
SCOP			4.4	4.2	4.5		4.3	4.4	4.3			4.4	
Maximum number of connectable indoor units			64(1)										
Indoor index connection	Min.		425.0	450.0	475.0	500.0	525.0	550.0	575.0	600.0	625.0	650.0	675.0
	Max.		1,105.0	1,170.0	1,235.0	1,300.0	1,365.0	1,430.0	1,495.0	1,560.0	1,625.0	1,690.0	1,755.0
Piping connections	Liquid OD	mm	19.1										
	Gas OD	mm	34.9	41.3									
	HP/LP gas OD	mm	28.6	34.9									
	Total piping length System Actual	m	1,000										
Power supply	Phase/Frequency/Voltage	Hz/V	3N~/50/380-415										
Current - 50Hz	Maximum fuse amps (MFA)	A	80		100					125			

(1) Actual number of connectable indoor units depends on the indoor unit type and the connection ratio restriction for the system (50% ≤ CR ≤ 120%) | Cooling capacity: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0m | Heating capacity: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m | Contains fluorinated greenhouse gases

* EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland

Individual and multi branch selector box installation

BS1Q-A

Individual branch selector for VRV IV heat recovery

- Unique range of single and multi BS boxes for flexible and fast design
- Compact & light to install
- Ideal for remote rooms as no drain piping is needed
- Allows integration of server rooms into the heat recovery solution thanks to technical cooling function
- Connect up to 250 class unit (28kW)



BS1Q-A

BS1Q-A

- **UNIQUE** Faster installation thanks to open port connection
- Allows multi tenant applications
- Connectable to REYQ-T, RQCEQ-P3 and RWEYQ-T8 heat recovery units

Indoor Unit				BS1Q	1Q10A	1Q16A	1Q25A
Power input	Cooling	Nom.		kW	0.005		
	Heating	Nom.		kW	0.005		
Maximum number of connectable indoor units					6	8	
Maximum capacity index of connectable indoor units					15<x≤100	100<x≤160	160<x≤250
Dimensions	Unit	HeightxWidthxDepth		mm	207x388x326		
Weight	Unit			kg	12		15
Casing	Material				Galvanised steel plate		
Piping connections	Outdoor unit	Liquid	OD	mm	9.52		
		Gas	OD	mm	15.9		22.2
		Discharge gas	OD	mm	12.7		19.1
	Indoor unit	Liquid	OD	mm	9.52		
		Gas	OD	mm	15.9		22.2
Sound absorbing thermal insulation					Foamed polyurethane Flame-resistant needle felt		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240		
	Maximum fuse amps (MFA)			A	15		

Contains fluorinated greenhouse gases

BS-Q14AV1B

Multi branch selector for VRV IV heat recovery

- Unique range of single and multi BS boxes for flexible and fast design
- Major reduction in installation time thanks to wide range, compact size and light weight multi BS boxes
- Up to 70% smaller and 66% lighter than previous series
- Faster installation thanks to a reduced number of brazing points and wiring
- All indoor units connectable to one BS box
- Less inspection ports needed compared to installing single BS boxes
- Up to 16kW capacity available per port
- Connect up to 250 class unit (28kW) by combining 2 ports
- No limit on unused ports allowing phased installation
- **UNIQUE** Faster installation thanks to open port connection



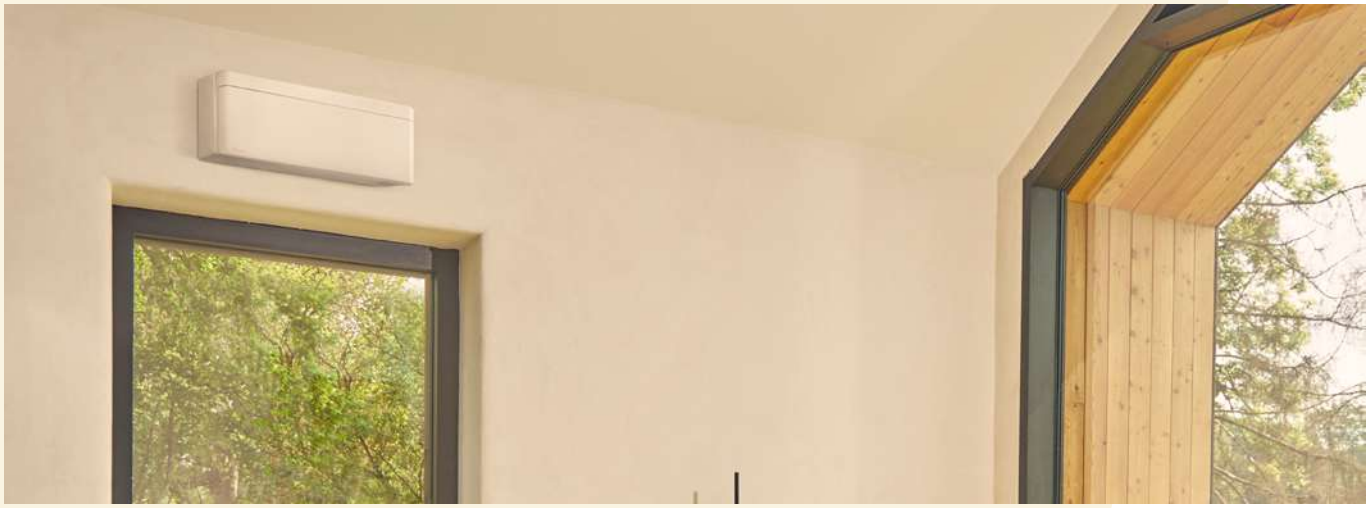
BS10Q14AV1B

BS-Q14AV1B

- **UNIQUE** Refrigerant filters for high reliability
- Allows multi tenant applications
- Connectable to REYQ-T, RQCEQ-P3 and RWEYQ-T8 heat recovery units

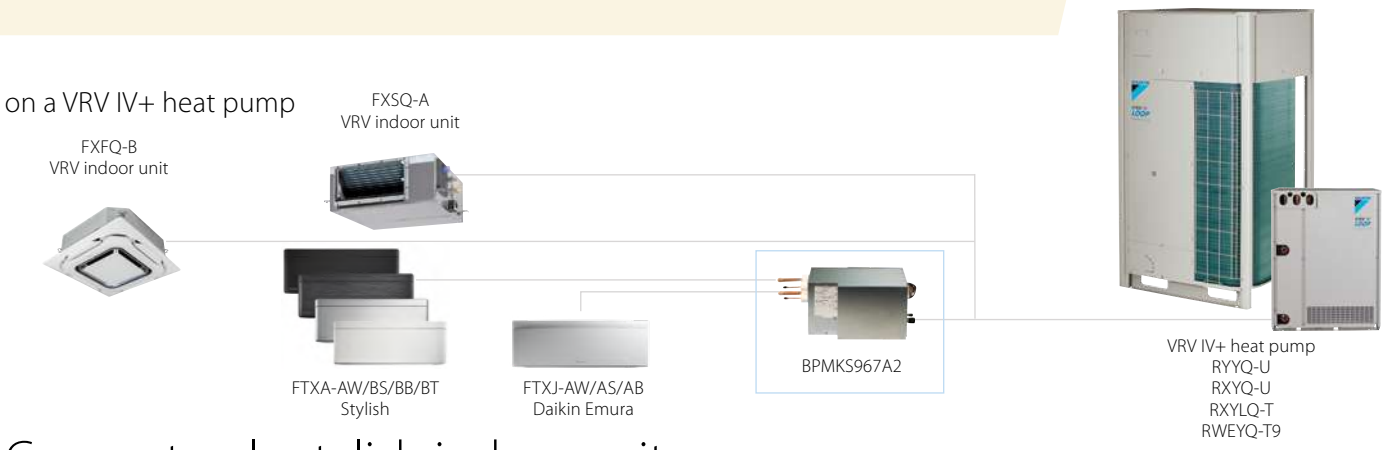
Indoor Unit				BS	4Q14AV1B	6Q14AV1B	8Q14AV1B	10Q14AV1B	12Q14AV1B	16Q14AV1B
Maximum number of connectable indoor units					20	30	40	50	60	64
Maximum capacity index of connectable indoor units					400	600	750			
Dimensions	Unit	HeightxWidthxDepth		mm	298x370x430	298x580x430		298x820x430		298x1,060x430
Weight	Unit			kg	17.0	24.0	26.0	35.0	38.0	50.0
Casing	Material				Galvanised steel plate					
Piping connections	Outdoor unit	Liquid	OD	mm	9.52	12.7	12.7/15.9	15.9	15.9/19.1	19.1
		Gas	OD	mm	22.2/19.1	28.6/22.2	28.6	28.6/34.9		34.9
		Discharge gas	OD	mm	19.1/15.9	19.1/22.2	19.1/22.2/28.6	28.6		
	Indoor unit	Liquid	OD	mm	6.35/9.52					
		Gas	OD	mm	12.7/15.9					
Sound absorbing thermal insulation					Urethane foam, polyethylene foam					
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240					
	Maximum fuse amps (MFA)			A	15					

Contains fluorinated greenhouse gases

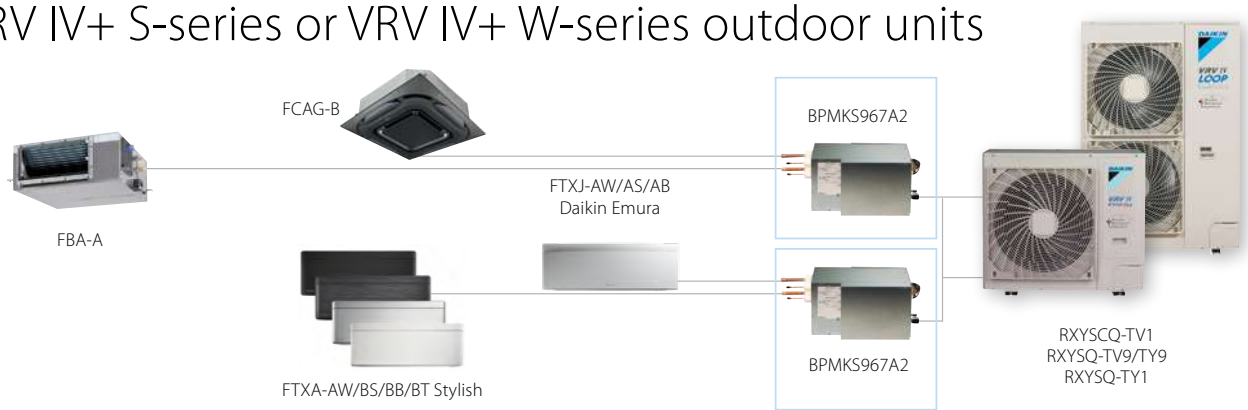


Aesthetics series

Outdoor units connecting to design indoor units



Connect only stylish indoor units to VRV IV+ S-series or VRV IV+ W-series outdoor units



*Special order unit, contact your local sales representative for more information

BPMKS967A

Branch provider

To connect Split and Sky Air indoor units to VRV outdoor units



BPMKS967A2

Branch provider			BPMKS967A2	BPMKS967A2
Connectable indoor units			1~2	1~3
Max. indoor unit connectable capacity			14.2	20.8
Max. connectable combination			71+71	60+71+71
Dimensions	Height x Width x Depth	mm	180x294x350	
Weight		kg	7	8

Products overview
Stylish indoor units

Depending on the application, Split and Sky Air indoor units can be connected to our VRV IV+ and VRV IV+ S-series outdoor units. Refer to the **outdoor unit portfolio** for combination restrictions.

				Capacity class (kW)								Connectable outdoor unit				
Type	**Model**	**Product name**		**15**	**20**	**25**	**35**	**42**	**50**	**60**	**71**	**RYYQ-U**	**RXYQ-U**	**RXYSCQ-TV1[3] RXYSQ-TV9[3] RXYSQ-TY9/TY1[3]**	**RWEYQ-T9[4]**	**RXYLQ-T**
Ceiling mounted cassette	**Round flow cassette** (incl. auto-cleaning function1) ROUND FLOW	FCAG-B					●		●	●	●	UV Streamer kit		✓		
	Fully flat cassette	FFA-A9				●	●		●	●				✓		
Concealed ceiling	**Slim concealed ceiling unit**	FDXM-F9				●	●		●	●		Auto cleaning filter option		✓		
	Concealed ceiling unit with inverter-driven fan	FBA-A(9)					●		●	●	●			✓		
Wall mounted	**Daikin Emura Wall mounted unit** reddot award 2014 winner	FTXJ-AW/ AS/AB			●	●	●		●			✓	✓	✓	✓	✓
	Stylish Wall mounted unit	FTXA-AW/BS/ BB/BT			●	●	●	●	●			✓	✓	✓	✓	✓
	Perfera Wall mounted unit	CTXM-A / FTXM-A		● RXYS(C)Q only	●	●	●	●	●	●	●	✓	✓	✓	✓	✓
Ceiling suspended	**Ceiling suspended unit**	FHA-A(9)					●		●	●	●			✓		
Floor standing	**Perfera Floor standing unit**	FVXM-A9			●	●	●		●			✓	✓	✓	✓	✓
	Concealed floor standing unit	FNA-A9				●	●		●	●				✓		

[1] Decoration panel BYCQ140DG9 or BYCQ140DGF9 + BRC1E* or BRC1H* needed
[2] To connect stylish indoor units a BPMKS unit is needed
[3] A mix of RA indoor units and VRV indoor units is not allowed.
[4] Only in heat pump operation

VRV IV+ S-series compact heat pump

The most compact VRV

Only 823mm high!



823mm

RXYSCQ-TV1

RXYSCQ-TV1

Outdoor unit				RXYSCQ	4TV1	5TV1	6TV1
Capacity range				HP	4	5	6
Cooling capacity	Prated,c			kW	12.1	14.0	15.5
Heating capacity	Prated,h			kW	12.1	14.0	15.5
	Max.	6°CWB		kW	14.2	16.0	18.0
Recommended combination					3 x FXSQ25A2VEB + 1 x FXSQ32A2VEB	4 x FXSQ32A2VEB	2 x FXSQ32A2VEB + 2 x FXSQ40A2VEB
ηs,c				%	322.8	303.4	281.3
ηs,h				%	182.3	185.1	186.0
SEER					8.1	7.7	7.1
SCOP					4.6	4.7	
Maximum number of connectable indoor units					64(1)		
Indoor index connection	Min.				50.0	62.5	70.0
	Max.				130.0	162.5	182.0
Dimensions	Unit	HeightxWidthxDepth		mm	823x940x460		
Weight	Unit			kg	89		
Sound power level	Cooling	Nom.		dBA	68.0	69.0	70.0
	Heating	Prated,h		dBA	69.0	70.0	71.0
Sound pressure level	Cooling	Nom.		dBA	51.0	52.0	53.0
Operation range	Cooling	Min.~Max.		°CDB	-5.0~46.0		
	Heating	Min.~Max.		°CWB	-20.0~15.5		
Refrigerant	Type/GWP				R-410A/2,087.5		
	Charge			kg/TCO2Eq	3.7/7.7		
Piping connections	Liquid	OD		mm	9.52		
	Gas	OD		mm	15.9		19.1
	Total piping length	System	Actual	m	300		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240		
Current - 50Hz	Maximum fuse amps (MFA)			A	32		

(1)Actual number of units depends on the indoor unit type (VRV DX indoor, RA DX indoor, etc.) and the connection ratio restriction for the system (being; 50% ≤ CR ≤130%). | Cooling capacity: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0m | Heating capacity: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m | Contains fluorinated greenhouse gases

VRV IV+ S-series heat pump

Space saving solution without compromising on efficiency

LOOP BY DAIKIN

For units made and sold in Europe*



RXYSQ4-6TV9_TY9

RXYSQ-TV9

RXYSQ-TY9

RXYSQ-TY1

Outdoor unit				RXYSQ	4TV9	5TV9	6TV9	4TY9	5TY9	6TY9	8TY1	10TY1	12TY1
Capacity range				HP	4	5	6	4	5	6	8	10	12
Cooling capacity	Prated,c			kW	12.1	14.0	15.5	12.1	14.0	15.5	22.4	28.0	33.5
Heating capacity	Prated,h			kW	12.1	14.0	15.5	12.1	14.0	15.5	22.4	28.0	33.5
	Max.	6°CWB		kW	14.2	16.0	18.0	14.2	16.0	18.0	25.0	31.5	37.5
Recommended combination					3 x FXSQ25A2VEB + 1 x FXSQ32A2VEB	4 x FXSQ32A2VEB	2 x FXSA32A2VEB + 2 x FXSA40A2VEB	3 x FXSQ25A2VEB + 1 x FXSQ32A2VEB	4 x FXSQ32A2VEB	2 x FXSQ32A2VEB + 2 x FXSQ40A2VEB	4 x FXMQ50P7VEB	4 x FXMQ63P7VEB	6 x FXMQ50P7VEB
ηs,c				%	278.9	270.1	278.0	269.2	260.5	268.3	247.3	247.4	256.5
ηs,h				%	171.6	182.9	192.8	154.4	164.5	174.1	165.8	162.4	169.6
SEER					7.0	6.8	7.0	6.8	6.6	6.8	6.3		6.5
SCOP					4.4	4.6	4.9	3.9	4.2	4.4	4.2	4.1	4.3
Maximum number of connectable indoor units					64(1)								
Indoor index connection	Min.				50.0	62.5	70.0	50.0	62.5	70.0	100.0	125.0	150.0
	Max.				130.0	162.5	182.0	130.0	162.5	182.0	260.0	325.0	390.0
Dimensions	Unit	HeightxWidthxDepth		mm	1,345x900x320						1,430x940x320	1,615x940x460	
Weight	Unit			kg	104						144	175	180
Sound power level	Cooling	Nom.		dBA	68.0	69.0	70.0	68.0	69.0	70.0	73.0	74.0	76.0
	Heating	Prated,h		dBA	68.0	69.0	70.0	68.0	69.0	70.0	73.0	74.0	76.0
Sound pressure level	Cooling	Nom.		dBA	50.0	51.0		50.0	51.0		55.0		57.0
Operation range	Cooling	Min.~Max.		°CDB	-5.0~46.0						-5.0~52.0		
	Heating	Min.~Max.		°CWB	-20.0~15.5								
Refrigerant	Type/GWP				R-410A/2,087.5								
	Charge			kg/TCO2Eq	3.6/7.5						5.5/11.5	7.0/14.6	8.0/16.7
Piping connections	Liquid	OD		mm	9.52								12.7
	Gas	OD		mm	15.9		19.1	15.9		19.1		22.2	25.4
	Total piping length	System	Actual	m	300								
Power supply	Phase/Frequency/Voltage			Hz/V	1N~/50/220-240			3N~/50/380-415					
Current - 50Hz	Maximum fuse amps (MFA)			A	32			16			25		32

(1)Actual number of units depends on the indoor unit type (VRV DX indoor, RA DX indoor, etc.) and the connection ratio restriction for the system (being; 50% ≤ CR ≤130%). | Cooling capacity: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0m | Heating capacity: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m | Contains fluorinated greenhouse gases

* EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland



Compact models, easy to hide

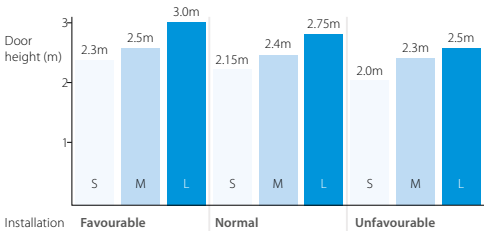
Products overview VRV IV

Capacity class (kW)

Type	Model		Product name		15	20	25	32	40	50	63	71	80	100	125	140	200	250
Ceiling mounted cassette	UNIQUE Round flow cassette	360° air discharge for optimum efficiency and comfort ▪ Auto cleaning function ensures high efficiency ▪ Intelligent sensors save energy and maximise comfort ▪ Flexibility to suit every room layout ▪ Lowest installation height in the market! ▪ Widest choice ever in decoration panel designs and colors	FXFQ-B			•	•	•	•	•	•		•	•	•			UV Streamer kit
	UNIQUE Fully flat cassette	Unique design that integrates fully flat into the ceiling ▪ Perfect integration in standard architectural ceiling tiles ▪ Blend of iconic design and engineering excellence ▪ Intelligent sensors save energy and maximise comfort ▪ Small capacity unit developed for small or well-insulated rooms ▪ Flexibility to suit every room layout	FXZQ-A		•	•	•	•	•	•								
	2-way blow ceiling mounted cassette	Thin, lightweight design installs easily in narrow ceiling spaces ▪ Depth of all units is 620mm, ideal for narrow ceiling spaces ▪ Flexibility to suit every room layout ▪ Reduced energy consumption thanks to DC fan motor ▪ The flaps close entirely when the unit is not operating ▪ Optimum comfort with automatic air flow adjustment to the required load	FXCQ-A			•	•	•	•	•	•		•		•			
	NEW 1-way blow cassette	1-way blow unit for corner installation ▪ Compact dimensions enable installation in narrow ceiling voids ▪ Flexible installation thanks to different air discharge options ▪ New modern decoration panel	FXKQ-A			NEW •	•	•	•	NEW •								Available summer '24
Concealed ceiling	Slim concealed ceiling unit	Slim design for flexible installation ▪ Compact dimensions enable installation in narrow ceiling voids ▪ Medium external static pressure up to 44Pa ▪ Only grilles are visible ▪ Small capacity unit developted for small of well-insulated rooms ▪ Reduced energy consumption thanks to DC fan motor	FXDQ-A3		•	•	•	•	•	•	•			Auto cleaning filter option					Multi zoning option
	Concealed ceiling unit with medium ESP	Slimmest yet most powerfull medium static pressure unit on the market! ▪ Slimmest unit in class, only 245mm ▪ Low operating sound level ▪ Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths ▪ Automatic air flow adjustment function measures the air volume and static pressure and adjusts it towards the nominal air flow, guaranteeing comfort	FXSQ-A		•	•	•	•	•	•	•		•	•	•	•		Multi zoning option
	Concealed ceiling unit with high ESP	ESP up to 200, ideal for large sized spaces ▪ Optimum comfort guaranteed no matter the length of ductwork or type of grilles, thanks to automatic air flow adjustment ▪ Reduced energy consumption thanks to DC fan motor ▪ Flexible installation as the air suction direction can be altered from rear to bottom suction	FXMQ-P7							•	•		•	•	•			
	Concealed ceiling unit with high ESP	ESP up to 250, ideal for extra large sized spaces ▪ Only grilles are visible ▪ Large capacity unit: up to 31.5 kW heating capacity	FXMQ-A														•	•
Wall mounted	Wall mounted unit	For rooms with no false ceilings nor free floor space ▪ Flat, stylish front panel is more easy to clean ▪ Small capacity unit developted for small of well-insulated rooms ▪ Reduced energy consumption thanks to DC fan motor ▪ The air is comfortably spread up- and downwards thanks to 5 different discharge angles	FXAQ-A		•	•	•	•	•	•	•							
Ceiling suspended	Ceiling suspended unit	For wide rooms with no false ceilings nor free floor space ▪ Ideal for comfortable air flow in wide rooms thanks to Coanda effect ▪ Rooms with ceilings up to 3.8m can be heated or cooled very easily! ▪ Can easily be installed in both new and refurbishment projects ▪ Can even be mounted in corners or narrow spaces without any problem ▪ Reduced energy consumption thanks to DC fan motor	FXHQ-A					•			•				•			
	UNIQUE 4-way blow ceiling suspended unit	Unique Daikin unit for high rooms with no false ceilings nor free floor space ▪ Rooms with ceilings up to 3.5m can be heated up or cooled down very easily! ▪ Can easily be installed in both new and refurbishment projects ▪ Intelligent sensors save energy and maximise comfort ▪ Flexibility to suit every room layout ▪ Reduced energy consumption thanks to DC fan motor	FXUQ-A										•		•			
Floor standing	Floor standing unit	For perimeter zone air conditioning ▪ Can be installed in front of glass walls or free standing as both the front and the back are finished ▪ Ideal for installation beneath a window ▪ Requires very little installation space ▪ Wall mounted installation facilitates cleaning beneath the unit	FXLQ-P			•	•	•	•	•	•							
	Concealed floor standing unit	Ideal for installation in offices, hotels and residential applications ▪ Discretely concealed in the wall, leaving only the suction and discharge grilles visible ▪ Can even be installed underneath a window ▪ Requires very little installation space as the depth is only 200mm ▪ High ESP allows flexible installation	FXNQ-A			•	•	•	•	•	•							
Cooling capacity (kW)1					1.7	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	14.0	16.0	22.4	28.0
Heating capacity (kW)2					1.9	2.5	3.2	4.0	5.0	6.3	8.0	9.0	10.0	12.5	16.0	18.0	25.0	31.5

(1) Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m
(2) Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m

Type	Model		Product name	
Biddle air curtain	NEW Free-hanging	**Easy wall mounted installation** ▪ Connectable to ERQ and VRV units ▪ Unified range for R-32 and R-410A refrigerant ▪ Payback period of less then 1.5 years compared to installing an electric air curtain	CYA-DK-F	
	NEW Cassette	**Mounted into a false ceiling leaving only the decoration panel visible** ▪ Connectable to ERQ and VRV units ▪ Unified range for R-32 and R-410A refrigerant ▪ Payback period of less then 1.5 years compared to installing an electric air curtain	CYA-DK-C	
	NEW Recessed	**Neatly concealed in the ceiling** ▪ Connectable to ERQ and VRV units ▪ Unified range for R-32 and R-410A refrigerant ▪ Payback period of less then 1.5 years compared to installing an electric air curtain	CYA-DK-R	



Installation condition	Favourable	Normal	Unfavourable
	ex: covered shopping mall or revolving door entrance	ex: little direct wind, no opposite open doors, building with ground floor only	ex: location at a corner or square, multiple floors and / or open stairwell

FXFQ-B

Round flow cassette

360° air discharge for optimum efficiency and comfort



FXFQ-B

FXFQ-B

Indoor Unit				FXFQ	20B	25B	32B	40B	50B	63B	80B	100B	125B
Cooling capacity	Total capacity	At high fan speed		kW	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00
Heating capacity	Total capacity	At high fan speed		kW	2.50	3.20	4.00	5.00	6.30	8.00	10.00	12.50	16.00
Power input - 50Hz	Cooling	At high fan speed		kW		0.017		0.018	0.023	0.028	0.045	0.071	0.103
	Heating	At high fan speed		kW		0.017		0.018	0.023	0.028	0.045	0.071	0.103
Dimensions	Unit	HeightxWidthxDepth		mm		204x840x840					246x840x840		288x840x840
Weight	Unit			kg		18		19	21		24		26
Casing	Material							Galvanised steel plate					
Decoration panel	Model							Standard panels: BYCQ140E - white with grey louvers / BYCQ140EW - full white / BYCQ140EB - black Auto cleaning panels: BYCQ140EGF - white / BYCQ140EGFB - black Designer panels: BYCQ140EP - white / BYCQ140EPB - black					
	Dimensions	HeightxWidthxDepth		mm				Standard panels: 65x950x950 / Auto cleaning panels: 148x950x950 / Designer panels: 106x950x950					
	Weight			kg				Standard panels: 5.5 / Auto cleaning panels: 10.3 / Designer panels: 6.5					
Fan	Air flow	Cooling	At high / medium / low fan speed	m^3/min		12.8/10.7/8.9		14.8/12.6/10.4	15.1/12.9/10.7	16.6/13.4/10.7	23.3/19.2/13.5	27.8/20.4/13.0	31.6/26.0/19.8
	rate - 50Hz	Heating	At high / medium / low fan speed	m^3/min		12.8/10.7/8.9		14.8/12.6/10.4	15.1/12.9/10.7	16.6/13.4/10.7	22.5/18.5/13.0	27.8/20.4/13.0	30.3/24.9/18.9
Air filter	Type							Resin net					
Sound power level	Cooling	At high fan speed		dBA		49.0		51.0		53.0	55.0	60.0	61.0
Sound pressure	Cooling	At high / medium / low fan speed		dBA		31.0/29.0/28.0		33.0/31.0/29.0		35.0/33.0/30.0	38.0/34.0/30.0	43.0/37.0/30.0	45.0/41.0/36.0
level	Heating	At high / medium / low fan speed		dBA		31.0/29.0/28.0		33.0/31.0/29.0		35.0/33.0/30.0	38.0/34.0/30.0	43.0/37.0/30.0	45.0/41.0/36.0
Refrigerant	Type/GWP							R-410A/2,087.5					
Piping connections	Liquid	OD		mm		6.35				9.52			
	Gas	OD		mm		12.7				15.9			
	Drain							VP25 (O.D. 32 / I.D. 25)					
Power supply	Phase/Frequency/Voltage			Hz/V				1~/50/60/220-240/220					
Current - 50Hz	Maximum fuse amps (MFA)			A				16					
Control systems	Infrared remote control							BRC7FA532F / BRC7FB532F / BRC7FA532FB / BRC7FB532FB					
	Wired remote control							BRC1H52W7/S7/K7 / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52					

Contains fluorinated greenhouse gases

FXZQ-A

Fully flat cassette

Unique design in the market that integrates fully flat into the ceiling



FXZQ-A

FXZQ-A

Indoor Unit				FXZQ	15A	20A	25A	32A	40A	50A
Cooling capacity	Total capacity	At high fan speed		kW	1.70	2.20	2.80	3.60	4.50	5.60
Heating capacity	Total capacity	At high fan speed		kW	1.90	2.50	3.20	4.00	5.00	6.30
Power input - 50Hz	Cooling	At high fan speed		kW	0.018		0.020	0.019	0.029	0.048
	Heating	At high fan speed		kW	0.018		0.020	0.019	0.029	0.048
Dimensions	Unit	HeightxWidthxDepth		mm			260x575x575			
Weight	Unit			kg		15.5		16.5		18.5
Casing	Material						Galvanised steel plate			
Decoration panel	Model / Colour						BYFQ60C2W1W / White (N9.5)			
	Dimensions	HeightxWidthxDepth		mm			46x620x620			
	Weight			kg			2.8			
Decoration panel 2	Model / Colour						BYFQ60C2W1S / Silver			
	Dimensions	HeightxWidthxDepth		mm			46x620x620			
	Weight			kg			2.8			
Decoration panel 3	Model / Colour						BYFQ60B2W1 / White (RAL9010)			
	Dimensions	HeightxWidthxDepth		mm			55x700x700			
	Weight			kg			2.7			
Decoration panel 4	Model / Colour						BYFQ60B3W1 / White (RAL9010)			
	Dimensions	HeightxWidthxDepth		mm			55x700x700			
	Weight			kg			2.7			
Fan	Air flow	Cooling	At high / medium / low fan speed	m^3/min	8.5/7.00/6.5	8.7/7.50/6.5	9.0/8.00/6.5	10.0/8.50/7.0	11.5/9.50/8.0	14.5/12.5/10.0
	rate - 50Hz	Heating	At high / medium / low fan speed	m^3/min	8.5/7.0/6.5	8.7/7.5/6.5	9.0/8.0/6.5	10.0/8.5/7.0	11.5/9.5/8.0	14.5/12.5/10.0
Air filter	Type						Resin net			
Sound power level	Cooling	At high fan speed		dBA	49		50	51	54	60
Sound pressure	Cooling	At high / medium / low fan speed		dBA	31.5/28.0/25.5	32.0/29.5/25.5	33.0/30.0/25.5	33.5/30.0/26.0	37.0/32.0/28.0	43.0/40.0/33.0
level	Heating	At high / medium / low fan speed		dBA	31.5/28.0/25.5	32.0/29.5/25.5	33.0/30.0/25.5	33.5/30.0/26.0	37.0/32.0/28.0	43.0/40.0/33.0
Refrigerant	Type/GWP						R-410A/2,087.5			
Piping connections	Liquid	OD		mm			6.35			
	Gas	OD		mm			12.7			
	Drain						VP20 (I.D. 20/O.D. 26)			
Power supply	Phase/Frequency/Voltage			Hz/V			1~/50/60/220-240/220			
Current - 50Hz	Maximum fuse amps (MFA)			A			16			
Control systems	Infrared remote control						BRC7F530W (white panel) / BRC7F530S (grey panel) / BRC7EB530W (standard panel)			
Control systems	Wired remote control						BRC1H52W7/S7/K7 / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52			

Contains fluorinated greenhouse gases

FXCQ-A

2-way blow ceiling mounted cassette

Thin, lightweight design installs easily in narrow corridors



FXCQ20_40A

FXCQ-A

Indoor Unit				FXCQ	20A	25A	32A	40A	50A	63A	80A	125A
Cooling capacity	Total capacity	At high fan speed		kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	14.0
Heating capacity	Total capacity	At high fan speed		kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	16.0
Power input - 50Hz	Cooling	At high fan speed		kW	0.031	0.039		0.041	0.059	0.063	0.090	0.149
	Heating	At high fan speed		kW	0.028	0.035		0.037	0.056	0.060	0.086	0.146
Dimensions	Unit	HeightxWidthxDepth		mm	305x775x620				305x990x620		305x1,445x620	
Weight	Unit			kg	19				22	25	33	38
Casing	Material				Galvanised steel plate							
Decoration panel	Model				BYBCQ40HW1				BYBCQ63HW1		BYBCQ125HW1	
	Colour				Fresh white (6.5Y 9.5/0.5)							
	Dimensions	HeightxWidthxDepth		mm	55x1,070x700				55x1,285x700		55x1,740x700	
	Weight			kg	10				11		13	
Fan	Air flow rate - 50Hz	Cooling	At high / medium / low fan speed	m^3/min	10.5/9/7.5	11.5/9.5/8		12/10.5/8.5	15/13/10.5	16/14/11.5	26/22.5/18.5	32/27.5/22.5
Air filter	Type				Resin net with mold resistance							
Sound power level	Cooling	At high / medium / low fan speed		dBA	48/46/44	50/47/45	50/48/46	52/49/47	53/51/47	55/53/48	58/54/49	62/58/54
Sound pressure level	Cooling	At high / medium / low fan speed		dBA	32.0/30.0/28.0	34.0/31.0/29.0	34.0/32.0/30.0	36.0/33.0/31.0	37.0/35.0/31.0	39.0/37.0/32.0	42.0/38.0/33.0	46.0/42.0/38.0
	Heating	At high / medium / low fan speed		dBA	32.0/30.0/28.0	34.0/31.0/29.0	34.0/32.0/30.0	36.0/33.0/31.0	37.0/35.0/31.0	39.0/37.0/32.0	42.0/38.0/33.0	46.0/42.0/38.0
Refrigerant	Type/GWP				R-410A/2,087.5							
Piping connections	Liquid	OD		mm	6.35					9.52		
	Gas	OD		mm	12.7					15.9		
	Drain				VP25 (O.D. 32 / I.D. 25)							
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240							
Current - 50Hz	Maximum fuse amps (MFA)			A	16							
Control systems	Infrared remote control				BRC7C52							
	Wired remote control				BRC1H52W7/S7/K7 / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52							

Contains fluorinated greenhouse gases

NEW FXKQ-A

Ceiling mounted corner cassette

1-way blow unit for corner installation

New design!



FXKQ-A

FXKQ-A

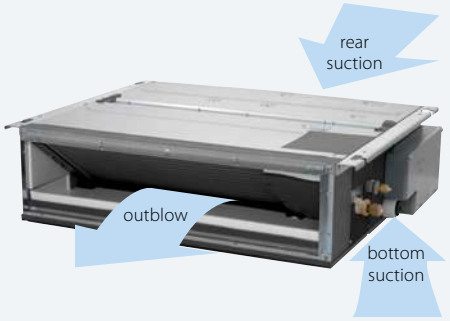
Indoor Unit				FXKQ	20A	25A	32A	40A	50A	63A
Cooling capacity	Total capacity	At high fan speed		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity	Total capacity	At high fan speed		kW	2.5	3.2	4	5	6.3	8
Power input - 50Hz	Cooling	At high fan speed		kW	0.024	0.024	0.033	0.038	0.055	0.118
	Heating	At high fan speed		kW	0.024	0.024	0.033	0.038	0.055	0.118
Dimensions	Unit	HeightxWidthxDepth		mm	200x840x470				200x1,240x470	
Weight	Unit			kg	17	17	18	23	23	23
Casing	Material				Galvanised steel plate					
Decoration panel	Model				BYK32G				BYK63G	
	Dimensions	HeightxWidthxDepth		mm	80x950x550				80x1,350x550	
	Weight			kg						
Fan	Airflow rate	Cooling	At high / medium / low fan speed	m^3/min	7.1/6/5		8.5/7.3/6	12.9/11/9.1	15.5/13.2/11	21.5/17/14.1
Air filter	Type				Resin net					
Sound power level	Cooling	At high / medium / low fan speed		dBA	46.0/43.5/41.0		50.5/48.5/46.5	52.5/50.0/48.0	57.0/52.5/50.0	61.5/57.0/52.5
	Heating	At high / medium / low fan speed		dBA	50.0/46.0/41.5		52.5/49.5/47.0	53.0/50.5/48.0	58.0/53.0/50.5	63.5/58.0/53.0
Sound pressure level	Cooling	At high / medium / low fan speed		dBA	32.0/27.5/22.5		37.0/34.0/31.5	38.5/34.5/31.5	42.0/38.0/34.5	48.5/43.5/38.5
	Heating	At high / medium / low fan speed		dBA	36.0/31.0/25.5		39.0/35.5/32.5	39.5/36.0/32.5	44.0/39.5/36.0	49.0/44.0/39.5
Refrigerant	Type/GWP				R-32/675					
Piping connections	Liquid	OD		mm	6.35					
	Gas	OD		mm	9.52				12.7	
	Drain				VP25 (O.D. 32/I.D. 25)					
Power supply				Hz/V	1~/50/60/220-240/220					
Current - 50Hz	Maximum fuse amps (MFA)			A	6					

Contains fluorinated greenhouse gases

FXDQ-A3

Slim concealed ceiling unit

Slim design for flexible installation



FXDQ15-32A3

FXDQ-A3

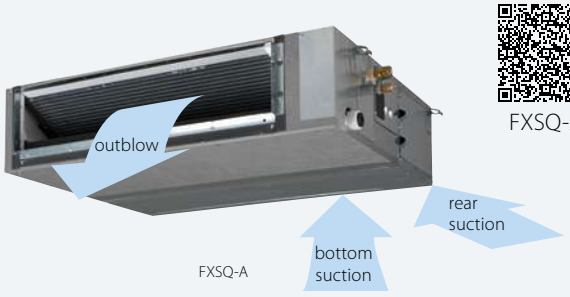
Indoor Unit				FXDQ	15A3	20A3	25A3	32A3	40A3	50A3	63A3
Cooling capacity	Nom.			kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity	Nom.			kW	1.9	2.5	3.2	4.0	5.0	6.3	8.0
Power input - 50Hz	Cooling	At high fan speed		kW	0.036			0.041	0.042	0.053	0.062
	Heating	At high fan speed		kW	0.036			0.041	0.042	0.053	0.062
Required ceiling void >				mm	240						
Dimensions	Unit	HeightxWidthxDepth		mm	200x750x620				200x950x620		200x1,150x620
Weight	Unit			kg	22				26		29
Casing	Material				Galvanised steel						
Fan	Air flow rate - 50Hz	Cooling	At high / medium / low fan speed	m^3/min	7.5/7.0/6.4	8.0/7.2/6.4			10.5/9.5/8.5	12.5/11.0/10.0	16.5/14.5/13.0
	External static pressure - 50Hz	Factory set / High		Pa	10/30.0				15/44.0		
Air filter	Type				Removable / washable						
Sound power level	Cooling	At high fan speed		dBA	50	51			52	53	54
Sound pressure level	Cooling	At high / medium / low fan speed		dBA	32.0/31.0/27.0	33.0/31.0/27.0			34.0/32.0/28.0	35.0/33.0/29.0	36.0/34.0/30.0
Refrigerant	Type/GWP				R-410A/2,087.5						
Piping connections	Liquid	OD		mm	6.35						9.52
	Gas	OD		mm	12.7						15.9
	Drain				VP20 (I.D. 20/O.D. 26)						
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220						
Current - 50Hz	Maximum fuse amps (MFA)			A	16						
Control systems	Infrared remote control				BRC4C65 / BRC4C66						
	Wired remote control				BRC1D528 / BRC1E51						

Contains fluorinated greenhouse gases

FXSQ-A

Concealed ceiling unit with medium ESP

Slimmest yet most powerful medium static pressure unit on the market



FXSQ-A

FXSQ-A

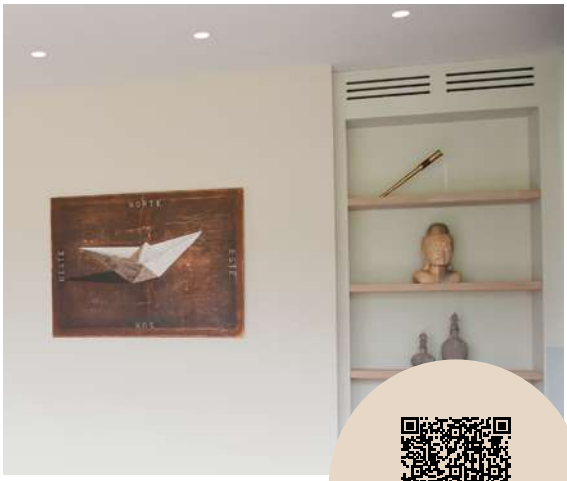
Indoor Unit				FXSQ	15A	20A	25A	32A	40A	50A	63A	80A	100A	125A	140A
Cooling capacity	Total capacity	At high fan speed		kW	1.70	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00	16.00
Heating capacity	Total capacity	At high fan speed		kW	1.90	2.50	3.20	4.00	5.00	6.30	8.00	10.0	12.5	16.0	18.0
Power input - 50Hz	Cooling	At high fan speed		kW	0.041			0.045	0.087	0.089	0.101	0.135	0.173	0.237	0.247
	Heating	At high fan speed		kW	0.041			0.045	0.087	0.089	0.101	0.135	0.173	0.237	0.247
Dimensions	Unit	HeightxWidthxDepth		mm	245x550x800				245x700x800		245x1,000x800		245x1,400x800		245x1,550x800
Weight	Unit			kg	23.5			24.0	28.5	29.0	35.5	36.5	46.0	47.0	51.0
Casing	Material				Galvanised steel plate										
Fan	Air flow rate - 50Hz	Cooling	At high / medium / low fan speed	m^3/min	8.7/7.50/6.5	9.0/7.50/6.5		9.5/8.00/7.0	15.0/12.5/11.0	15.2/12.5/11.0	21.0/18.0/15.0	23.0/19.5/16.0	32.0/27.0/23.0	36.0/31.5/26.0	39.0/34.0/28.0
		Heating	At high / medium / low fan speed	m^3/min	8.7/7.5/6.5	9.0/7.5/6.5		9.5/8.0/7.0	15.0/12.5/11.0	15.2/12.5/11.0	21.0/18.0/15.0	23.0/19.5/16.0	32.0/27.0/23.0	36.0/31.5/26.0	39.0/34.0/28.0
	External static pressure - 50Hz	Factory set / High		Pa	30/150							40/150		50/150	
Air filter	Type				Resin net										
Sound power level	Cooling	At high fan speed		dBA	54			55	60		59	61		64	
Sound pressure level	Cooling	At high / medium / low fan speed		dBA	29.5/28.0/25.0	30.0/28.0/25.0		26.0/29.0/26.0	35.0/32.0/29.0		33.0/30.0/27.0	35.0/32.0/29.0	36.0/34.0/31.0	39.0/36.0/33.0	41.5/38.0/34.0
	Heating	At high / medium / low fan speed		dBA	31.5/29.0/26.0	32.0/29.0/26.0		33.0/30.0/27.0	37.0/34.0/29.0		35.0/32.0/28.0	37.0/34.0/30.0	37.0/34.0/31.0	40.0/37.0/33.0	42.0/38.5/34.0
Refrigerant	Type/GWP				R-410A/2,087.5										
Piping connections	Liquid	OD		mm	6.35						9.52				
	Gas	OD		mm	12.7						15.9				
	Drain				VP20 (I.D. 20/O.D. 26), drain height 625 mm										
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220										
Current - 50Hz	Maximum fuse amps (MFA)			A	16										
Control systems	Infrared remote control				BRC4C65										
	Wired remote control				BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52										

Contains fluorinated greenhouse gases

Multi zoning kit

for concealed ceiling units

The multi-zoning system is a room-by-room controller. It is fitted with motorised dampers, which immediately adapt using Daikin ducted solutions. This system supports control of up to 8 zones via a centralised thermostat located in the main room and individual thermostats for each of the zones.



Easy selection via our NEW software!

Benefits

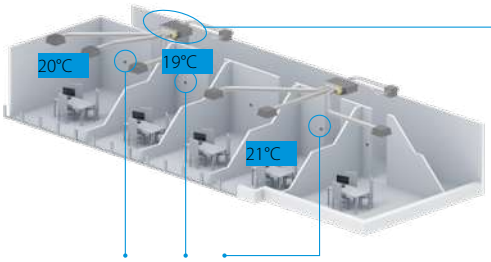
Increased comfort

- Increases comfort levels by allowing more individual zone control
  - Up to 8 individual zones can be served thanks to separate modulating dampers
  - Individual thermostat for room-by-room or zone-by-zone control

Easy to install

- Automatic air flow adjustment according to the demand
- Easy to install, integrates with the Daikin indoor units and system controls
- Time saving as plenum comes fully pre-assembled with dampers, and control boards
- Reduces the amount of refrigerant required in the installation

How does it work?





Zoning box: fully pre-assembled plenum with dampers

Individual zone thermostats

Bluezero - Airzone Main Thermostat

- Color graphic interface for controlling zones



AZCE6BLUEZEROCB (Wired)

Airzone Zone Thermostat

- Graphic interface with low-energy e-ink screen for controlling zones



AZCE6THINKRB (Wireless)

Airzone Zone Thermostat

- Thermostat with buttons for controlling the temperature



AZCE6LITECB (Wired)
AZCE6LITERB (Wireless)

Compatibility

Number of motorised dampers		Reference	Dimensions H x W x D (mm)	Ø (mm)	SkyAir FDXM-F9 25	35	50	60	SkyAir FBA-A(9) 35	50	60	71	100	125	140	SkyAir ADEA-A 71	100	125	VRV IV+ FXDQ-A3 15	20	25	32	40	50	63	VRV IV+ FXSQ-A 15	20	25	32	40	50	63	80	100	125	140
Standard plenum	2	AZE(Z/R)6DAIST07XS2	300 x 930 x 454	200																						•	•	•	•						
		AZE(Z/R)6DAIST07S2							•	•																			•	•					
	3	AZE(Z/R)6DAIST07XS3																								•	•	•	•						
		AZE(Z/R)6DAIST07S3							•	•																			•	•					
	4	AZE(Z/R)6DAIST07S4	300 x 1,140 x 454						•	•																			•	•					
		AZE(Z/R)6DAIST07M4									•	•				•															•	•			
	5	AZE(Z/R)6DAIST07M5	300 x 1,425 x 454								•	•				•															•	•			
		AZE(Z/R)6DAIST07L5											•	•	•		•	•															•	•	
	6	AZE(Z/R)6DAIST07M6	300 x 1,638 x 454								•	•				•															•	•			
		AZE(Z/R)6DAIST07L6											•	•	•		•	•															•	•	
	7	AZE(Z/R)6DAIST07L7	515 x 1,425 x 454										•	•	•		•	•															•	•	
		AZE(Z/R)6DAIST07XL7																																	•
	8	AZE(Z/R)6DAIST07L8											•	•	•		•	•															•	•	
		AZE(Z/R)6DAIST07XL8																																	•
Medium plenum	2	AZEZ6DAIBS07XS2	250 x 930 x 454	200																						•	•	•	•						
		AZEZ6DAIBS07S2							•	•																			•	•					
	3	AZEZ6DAIBS07XS3																								•	•	•	•						
		AZEZ6DAIBS07S3							•	•																			•	•					
		AZEZ6DAIBS07M3									•	•				•															•	•			
	4	AZEZ6DAIBS07S4	250 x 1,140 x 454						•	•																			•	•					
		AZEZ6DAIBS07M4									•	•				•															•	•			
		AZEZ6DAIBS07L4											•	•	•		•	•															•	•	
	5	AZEZ6DAIBS07S5	250 x 1,425 x 454						•	•																			•	•					
		AZEZ6DAIBS07M5									•	•				•															•	•			
		AZEZ6DAIBS07L5											•	•	•		•	•															•	•	
		AZEZ6DAIBS07XL5																																	•
	6	AZEZ6DAIBS07M6	250 x 1,638 x 454								•	•				•															•	•			
		AZEZ6DAIBS07L6											•	•	•		•	•															•	•	
		AZEZ6DAIBS07XL6																																	•
Slim plenum	2	AZE(Z/R)6DAISL01S2	210 x 720 x 444	200	•	•													•	•	•	•													
	3	AZE(Z/R)6DAISL01S3			•	•													•	•	•	•													
	4	AZE(Z/R)6DAISL01M4	210 x 930 x 444																				•	•											
	5	AZE(Z/R)6DAISL01L5	210 x 1,140 x 444				•	•																	•										

(1) Z models are reversible; R models are heating only
(2) Medium Ceiling Void reversible units can be blocked to heating only via AZX6MCS module

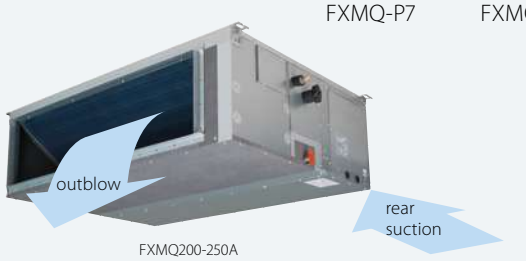
For more information on options refer to page 978

FXMQ-P7 / FXMQ-A

Concealed ceiling unit with high ESP

Ideal for large sized spaces: ESP up to 250 Pa

FXMQ-P7 FXMQ-A



FXMQ200-250A

Indoor Unit				FXMQ	50P7	63P7	80P7	100P7	125P7	200A	250A
Cooling capacity	Total capacity	At high fan speed		kW			-			22.4	28.0
	Nom.			kW	5.6	7.1	9.0	11.2	14.0	22.4	28.0
Heating capacity	Total capacity	At high fan speed		kW			-			25.0	31.5
	Nom.			kW	6.3	8.0	10.0	12.5	16.0	25.0	31.5
Power input - 50Hz	Cooling	At high fan speed		kW	0.110	0.120	0.171	0.176	0.241	0.54	0.65
	Heating	At high fan speed		kW	0.098	0.108	0.159	0.164	0.229	0.54	0.65
Required ceiling void >				mm			350			-	
Dimensions	Unit	HeightxWidthxDepth		mm		300x1,000x700		300x1,400x700		470x1,490x1,100	
Weight	Unit			kg		35		46		105	115
Fan	Air flow rate - 50Hz	Cooling	At high/medium/low fan speed	m^3/min	18.0/16.5/15.0	19.5/17.8/16.0	25.0/22.5/20.0	32.0/27.5/23.0	39.0/33.5/28.0	62/48/41	74/64/52
		Heating	At high/medium/low fan speed	m^3/min	18.0/16.5/15.0	19.5/17.8/16.0	25.0/22.5/20.0	32.0/27.5/23.0	39.0/33.5/28.0	62/48/41	74/64/52
	External static pressure - 50Hz	Factory set / High		Pa			100/200			150/250	
Air filter	Type						Resin net			-	
Sound power level	Cooling	At high/medium/low fan speed		dBA	61.0/-/-	64.0/-/-	67.0/-/-	65.0/-/-	70.0/-/-	75/74/72	76/75/73
	Heating	At high/medium/low fan speed					-			75/74/72	76/75/73
Sound pressure level	Cooling	At high/medium/low fan speed		dBA	41.0/39.0/37.0	42.0/40.0/38.0	43.0/41.0/39.0		44.0/42.0/40.0	48/46.5/45	
	Heating	At high/medium/low fan speed		dBA	41.0/39.0/37.0	42.0/40.0/38.0	43.0/41.0/39.0		44.0/42.0/40.0	48/46.5/45	
Refrigerant	Type/GWP						R-410A/-			R-410A/2,087.5	
Piping connections	Liquid	OD		mm	6.35		9.52				
	Gas	OD		mm	12.7		15.9			19.1	22.2
	Drain						VP25 (I.D. 25/O.D. 32)			BSP1	
Power supply	Phase/Frequency/Voltage			Hz/V			1~/50/60/220-240/220 +/-10%			1~/50/220-240	
Current - 50Hz	Maximum fuse amps (MFA)			A			6				
Control systems	Infrared remote control						BRC4C65				
	Wired remote control						BRC1H52W7/S7/K7 / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52				

Contains fluorinated greenhouse gases

FXAQ-A

Wall mounted unit

For rooms with no false ceilings nor free floor space


FXAQ-A

FXAQ-A

Indoor Unit				FXAQ	15A	20A	25A	32A	40A	50A	63A
Cooling capacity	Total capacity	At high fan speed		kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity	Total capacity	At high fan speed		kW	1.9	2.5	3.2	4.0	5.0	6.3	8.0
Power input - 50Hz	Cooling	At high fan speed		kW	0.02		0.03		0.02	0.03	0.05
	Heating	At high fan speed		kW	0.03			0.04	0.02	0.04	0.06
Dimensions	Unit	HeightxWidthxDepth		mm	290x795x266				290x1,050x269		
Weight	Unit			kg	12				15		
Fan	Air flow rate - 50Hz	Cooling	At high fan speed/ At low fan speed	m^3/min	8.4/7.0	9.1/7.0	9.4/7.0	9.8/7.0	12.2/9.7	14.4/11.5	18.3/13.5
Air filter	Type				Washable resin net						
Sound power level	Cooling	At high fan speed		dBA	51.0	52.0	53.0	55.0		58.0	63.0
Sound pressure level	Cooling	At high fan speed/ At low fan speed		dBA	32.0/28.5	33.0/28.5	35.0/28.5	37.5/28.5	37.0/33.5	41.0/35.5	46.5/38.5
	Heating	At high fan speed/ At low fan speed		dBA	33.0/28.5	34.0/28.5	36.0/28.5	38.5/28.5	38.0/33.5	42.0/35.5	47.0/38.5
Refrigerant	Type/GWP				R-410A/2,087.5						
Piping connections	Liquid	OD		mm	6.35						9.52
	Gas	OD		mm	12.7						15.9
	Drain				VP13 (I.D. 15/O.D. 18)						
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240						
Current - 50Hz	Maximum fuse amps (MFA)			A	16						
Control systems	Infrared remote control				BRC7EA628 / BRC7EA629						
	Wired remote control				BRC1H52W7/S7/K7 / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52						

Contains fluorinated greenhouse gases

FXHQ-A

Ceiling suspended unit

For wide rooms with no false ceilings nor free floor space



FXHQ63A

FXHQ-A

Indoor Unit				FXHQ	32A	63A	100A
Cooling capacity	Total capacity	At high fan speed		kW	3.6	7.1	11.2
Heating capacity	Total capacity	At high fan speed		kW	4.0	8.0	12.5
Power input - 50Hz	Cooling	At high fan speed		kW	0.107	0.111	0.237
	Heating	At high fan speed		kW	0.107	0.111	0.237
Dimensions	Unit	HeightxWidthxDepth		mm	235x960x690	235x1,270x690	235x1,590x690
Weight	Unit			kg	27	35	42
Casing	Material				Resin, sheet metal		
Fan	Air flow rate - 50Hz	Cooling	At high / medium / low fan speed	m^3/min	14.0/12.0/10.0	20.0/17.0/14.0	29.5/24.0/19.0
		Heating	At high / medium / low fan speed	m^3/min	14.0/12.0/10.0	20.0/17.0/14.0	29.5/24.0/19.0
Air filter	Type				Resin net		
Sound power level	Cooling	At high / medium / low fan speed		dBA	54.0/52.0/49.0	55.0/53.0/52.0	62.0/55.0/52.0
Sound pressure level	Cooling	At high / medium / low fan speed		dBA	36.0/34.0/31.0	37.0/35.0/34.0	44.0/37.0/34.0
	Heating	At high / medium / low fan speed		dBA	36.0/34.0/31.0	37.0/35.0/34.0	44.0/37.0/34.0
Refrigerant	Type/GWP				R-410A/2,087.5		
Piping connections	Liquid	OD		mm	6.35	9.52	
	Gas	OD		mm	12.7	15.9	
	Drain				VP20		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220		
Current - 50Hz	Maximum fuse amps (MFA)			A	16		
Control systems	Infrared remote control				BRC7GA53-9 / BRC7GA56		
	Wired remote control				BRC1H52W7/S7/K7 / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52		

Contains fluorinated greenhouse gases

FXUQ-A

4-way blow ceiling suspended unit

Unique Daikin unit for high rooms with no false ceilings nor free floor space

UNIQUE



FXUQ-A

FXUQ-A

Indoor Unit				FXUQ	71A	100A
Cooling capacity	Total capacity	At high fan speed		kW	8.0	11.2
Heating capacity	Total capacity	At high fan speed		kW	9.0	12.5
Power input - 50Hz	Cooling	At high fan speed		kW	0.090	0.200
	Heating	At high fan speed		kW	0.073	0.179
Dimensions	Unit	HeightxWidthxDepth		mm	198x950x950	
Weight	Unit			kg	26	27
Casing	Material				Resin	
Fan	Air flow rate - 50Hz	Cooling	At high / medium / low fan speed	m^3/min	22.5/19.5/16.0	31.0/26.0/21.0
		Heating	At high / medium / low fan speed	m^3/min	22.5/19.5/16.0	31.0/26.0/21.0
Air filter	Type				Resin net with mold resistance	
Sound power level	Cooling	At high / medium / low fan speed		dBA	58/56/54	65/62/58
Sound pressure level	Cooling	At high / medium / low fan speed		dBA	40.0/38.0/36.0	47.0/44.0/40.0
	Heating	At high / medium / low fan speed		dBA	40.0/38.0/36.0	47.0/44.0/40.0
Refrigerant	Type/GWP				R-410A/2,087.5	
Piping connections	Liquid	OD		mm	9.52	
	Gas	OD		mm	15.9	
	Drain				I.D. 20/O.D. 26	
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220-230	
Current - 50Hz	Maximum fuse amps (MFA)			A	16	
Control systems	Infrared remote control				BRC7CB58 / BRC7CB59	
	Wired remote control				BRC1H52W7/S7/K7 / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52	

Contains fluorinated greenhouse gases

FXNQ-A

Concealed floor standing unit

Designed to be concealed in walls



FXNQ-A

FXNQ-A

Indoor Unit				FXNQ	20A	25A	32A	40A	50A	63A
Cooling capacity	Total capacity	At high fan speed		kW	2.20	2.80	3.60	4.50	5.60	7.10
Heating capacity	Total capacity	At high fan speed		kW	2.50	3.20	4.00	5.00	6.30	8.00
Power input - 50Hz	Cooling	At high fan speed		kW	0.071			0.078	0.099	0.110
	Heating	At high fan speed		kW	0.068			0.075	0.096	0.107
Dimensions	Unit	HeightxWidthxDepth		mm	620/720x790x200			620/720x990x200		620/720x1,190x200
Weight	Unit			kg	23.5			27.5		32.0
Casing	Material				Galvanised steel plate					
Fan	Air flow rate - 50Hz	Cooling	At high / medium / low fan speed	m^3/min	8.0/7.20/6.4			10.5/9.50/8.5	12.5/11.0/10.0	16.5/14.5/13.0
		Heating	At high / medium / low fan speed	m^3/min	8.0/7.2/6.4			10.5/9.5/8.5	12.5/11.0/10.0	16.5/14.5/13.0
	External static pressure - 50Hz	Factory set / High		Pa	10/41.0		10/42.0	15/52.0	15/59.0	15/55.0
Air filter	Type				Resin net					
Sound power level	Cooling	At high fan speed		dBA	51			52	53	54
Sound pressure level	Cooling	At high / medium / low fan speed		dBA	30.0/28.5/27.0			32.0/30.0/28.0	33.0/31.0/29.0	35.0/33.0/32.0
	Heating	At high / medium / low fan speed		dBA	30.0/28.5/27.0			32.0/30.0/28.0	33.0/31.0/29.0	35.0/33.0/32.0
Refrigerant	Type/GWP				R-410A/2,087.5					
Piping connections	Liquid	OD		mm	6.35					9.52
	Gas	OD		mm	12.7					15.9
	Drain				VP20 (I.D. 20/O.D. 26)					
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220					
Current - 50Hz	Maximum fuse amps (MFA)			A	16					
Control systems	Infrared remote control				BRC4C65					
	Wired remote control				BRC1H52W7/S7/K7 / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52					

Contains fluorinated greenhouse gases

FXLQ-P

Floor standing unit

For perimeter zone air conditioning



FXLQ20-25P

FXLQ-P

Indoor Unit				FXLQ	20P	25P	32P	40P	50P	63P
Cooling capacity	Total capacity	At high fan speed		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity	Total capacity	At high fan speed		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power input - 50Hz	Cooling	At high fan speed		kW	0.05		0.09		0.11	
	Heating	At high fan speed		kW	0.05		0.09		0.11	
Dimensions	Unit	HeightxWidthxDepth		mm	600x1,000x232		600x1,140x232		600x1,420x232	
Weight	Unit			kg	27		32		38	
Fan	Air flow rate - 50Hz	Cooling	At high fan speed/ At low fan speed	m^3/min	7/6.0		8/6.0	11/8.5	14/11.0	16/12.0
Air filter	Type				Resin net					
Sound power level	Cooling	At high fan speed		dBA	54			57	58	59
Sound pressure level	Cooling	At high fan speed/ At low fan speed		dBA	35/32			38/33	39/34	40/35
	Heating	At high fan speed/ At low fan speed		dBA	35/32			38/33	39/34	40/35
Refrigerant	Type/GWP				R-410A/2,087.5					
Piping connections	Liquid	OD		mm	6.35					
	Gas	OD		mm	12.7					15.9
	Drain				O.D. 21 (Vinyl chloride)					
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220					
Current - 50Hz	Maximum fuse amps (MFA)			A	15					
Control systems	Infrared remote control				BRC4C65					
	Wired remote control				BRC1H52W7/S7/K7 / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52					

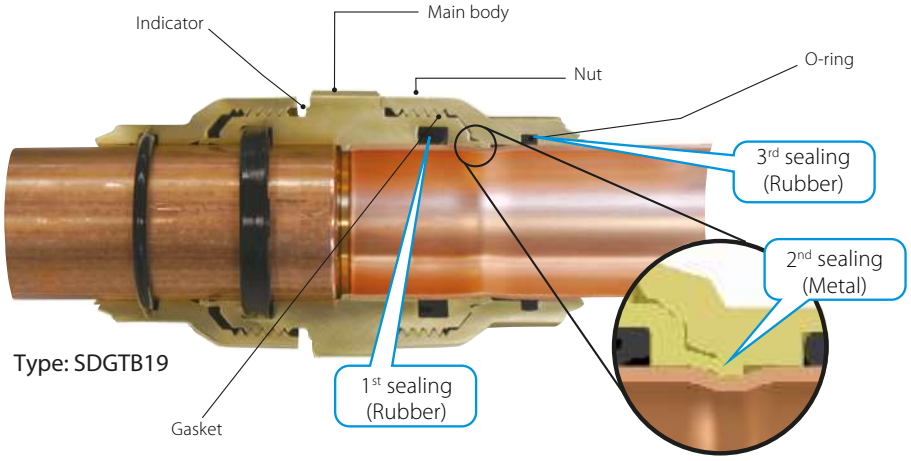
Contains fluorinated greenhouse gases

Tightfit

Daikin Tightfit is a non-brazed connection suitable for refrigerant piping. **Pipes can be joined easily and quickly without brazing or using any special tools.** It meets stringent safety requirements and provides leak-free tightness.

- Double edged claw catches the pipe to form tight, **mechanical sealing ISO 14903 certified**
- Specially developed REFNET allows direct connection to Tightfit joints
- Unique mechanical and resin sealing prevents any leak
- Extremely durable: can withstand up to 4 times the maximum operting pressure of R-32 refrigerant (17.2 Mpa)

Tightfit Mechanism

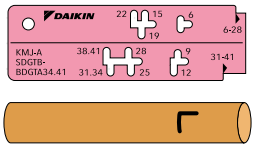


Daikin Tightfit is awarded 3 Ticks Excellent Rating by Singapore Green Building Product (SGBP) scheme. SGBP is a certification for green building products and materials, ensuring that sustainability is integrated throughout the design and manufacturing process of green building products.

Installation in 4 easy steps

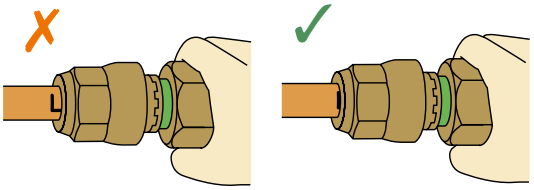
1 Mark the insertion line

Mark the insertion 'T' or 'L' standard line with the marking gauge and marker pen at the proper position of each pipe size.



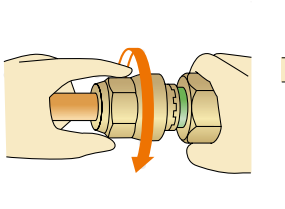
2 Insert the pipe

1. Insert firmly by hand until the pipe stops.
2. Make sure that the insertion standard line is no longer visible.



3 Tighten the nut

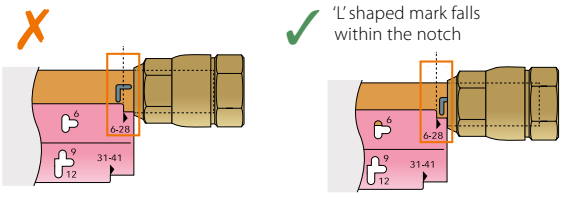
1. Hold the main body and tighten the nut by hand
2. Hold the main body and tighten the nut with a monkey wrench, until the green indicator disappears and the nut comes into contact with the flat face of the body.



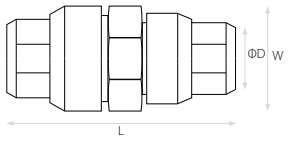
4 Check

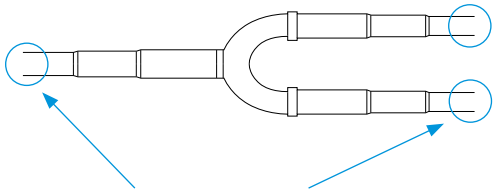
1. Green indicator should be hidden.
2. Place the marking gauge on the end face of the nut and make sure that the 'T' or 'L' shaped mark falls completely within the notch in the marking gauge.

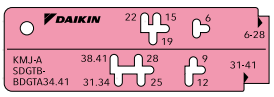




Standard joints (same size piping on each side)						
	Box Model Name	No. of joints/box	Dimensions			
			Diameter	L (mm)	W (mm)	Single Weight (g)
	NEW SDGTC06_B	100	1/4" (6.35mm)	50.4	15	43
	NEW SDGTC09_B	90	3/8" (9.52mm)	55	19.9	79
	NEW SDGTC12_B	70	1/2" (12.7mm)	59	23.5	113
	NEW SDGTC15_B	50	5/8" (15.9mm)	74	30	210
	SDGTB19_B	45	3/4" (19.1mm)	76.8	34.6	273
	SDGTB22_B	30	7/8" (22.2mm)	83.4	40.2	292
	SDGTB28_B	24	1 1/8" (28.6mm)	88	46.7	515
	BDGTA34_B	20	1 3/8" (34.9mm)	101.5	51.1	686
	BDGTA41_B	16	1 5/8" (41.3mm)	103.5	58.3	881

Asymmetric joints (different size piping on each side)						
	Box Model Name	No. of joints/box	Dimensions			
			Diameter	L (mm)	W (mm)	Single Weight (g)
	NEW SDGTC0906_B	90	1/4"-3/8" (6.35-9.52mm)	52.7	19.9	67
	NEW SDGTC1209_B	70	3/8"-1/2" (9.42-12.7mm)	57.5	23.5	101
	NEW SDGTC1512_B	60	1/2"-5/8" (12.7-15.9mm)	65	30	164
	NEW SDGTC1915_B	45	5/8"-3/4" (15.9-19.1mm)	76.8	34.6	244
	SDGTB2219_B	30	3/4"-7/8" (19.1-22.2mm)	81.5	40.2	358
	SDGTB2522_B	30	7/8"-1" (22.2-25.4mm)	85.8	43.5	444
	SDGTB2825_B	24	1"-1 1/8" (25.4-28.6mm)	88.1	46.7	505
	SDGTB3428_B	20	1 1/8"-1 3/8" (28.6-34.9mm)	101.5	51.1	645

Refnets compatible with Tightfit joints				
	Capacity index		Tightfit REFNET	Standard Refnet (for reference only)
	X<290	2-pipe	BHRG26A33T	KHRQ22M20TA
				KHRQ22M20T
				KHRQ22M29T9
	290<= X <= 640		BHRG26A72T	KHRQ22M64T
	640 <= X		BHRG26A73T	KHRQ22M75T
	X<290	3-pipe	BHRG25A33T	KHRQ23M20T
				KHRQ23M29T9
	290<= X <= 640		BHRG25A72T	KHRQ23M64T
	640 <= X		BHRG25A73T	KHRQ23M75T

Accessories	
	New Measuring Tool
	SDGT_GAUGE

View our installation video!

Tightfit joint

Tightfit Refnet

Options & accessories - VRV outdoor

		R-32		R-32	
		VRV 5 heat recovery		VRV 5 heat pump	
		REYA8-20 REMA5	2 module systems	RXYA 8~20 RYMA5	2-module systems
Kits	**Multi-module connection kit (obligatory)** - Connects multiple modules into a single refrigerant system		2 modules: BHFQ23P907A		2 modules: BHFA22P1007
	Extended level difference kit - Allows outdoor unit to be more than 50m above indoor units				
	Central drain pan kit - Installs onto the underside of the outdoor unit and collects drain water from all bottom plate outlets into a single outlet. In cold areas should be heated by a field-supplied heater to prevent drain water from freezing in the drain pan.				
	Bottom plate heater - To keep drain holes ice-free in extreme weather conditions (one per outdoor unit needed)	5/8-12: EKBPH012TA 14-20: EKBPH020TA	1 kit per system	5/8-12: EKBPH012TA 14-20: EKBPH020TA	1 kit per system
Adapters	**External control adapter for outdoor unit** - Allows to activate Low Noise Operation and three levels of demand control, limiting power consumption via external dry contacts. Connects to the F1/F2 communication line and requires power supply from an indoor unit, BSVQ box, or VRV-WIII outdoor unit.	DTA104A53/61/62 For installation into an indoor unit: exact adapter type depends on type of indoor unit. For 14-20 HP the demand PCB mouting plate is required (2). See Options & Accessories of indoor units			
	KRC19-26 Mechanical cool/heat selector – allows to switch an entire Heat Pump system, or one BS-box of a Heat Recovery system between cooling, heating and fan only. Connects to the A-B-C terminals of the outdoor unit / BS-box.			• (3)	
	Cool/heat selector PCB (required to connect KRC19-26)			EKBRP2A81	
Others	**EKCHSC** - Cool/heat selector cable				
	EKPCCAB4 VRV configurator				
	DTA109A51 DIII-net expander adapter	• (2) (4)		• (2) (4)	
	BPMKS967A2/A3 Branch provider (for connection of 2/3 RA indoor units)				
	EKDK04 Drain plug kit				
	EKLN140A Sound enclosure				

		VRV IV S-series			
		RXYSCQ-TV1	RXYSQ4-6TV9	RXYSQ4-6TY9	RXYSQ8-12TY1
Kits	**Multi-module connection kit (obligatory)** - Connects multiple modules into a single refrigerant system				
	Extended level difference kit - Allows outdoor unit to be more than 50m above indoor units				
	Central drain pan kit - Installs onto the underside of the outdoor unit and collects drain water from all bottom plate outlets into a single outlet. In cold areas should be heated by a field-supplied heater to prevent drain water from freezing in the drain pan.				
	Bottom plate heater - To keep drain holes ice-free in extreme weather conditions (one per outdoor unit needed)				
Adapters	**External control adapter for outdoor unit** - Allows to activate Low Noise Operation and three levels of demand control, limiting power consumption via external dry contacts. Connects to the F1/F2 communication line and requires power supply from an indoor unit, BSVQ box, or VRV-WIII outdoor unit.	DTA104A53/61/62 For installation into an indoor unit: exact adapter type depends on type of indoor unit. See Options & Accessories of indoor units			
	KRC19-26 Mechanical cool/heat selector – allows to switch an entire Heat Pump system, or one BS-box of a Heat Recovery system between cooling, heating and fan only. Connects to the A-B-C terminals of the outdoor unit / BS-box.		• (3)	• (3)	
	Cool/heat selector PCB (Required to connect KRC19-26)		EBRP2B		
Others	**EKCHSC** Cool/heat selector cable (Required to connect KRC19-26)			•	
	EKPCCAB4 VRV configurator	•	•	•	•
	DTA109A51 DIII-net expander adapter				
	BPMKS967A2/A3 Branch provider (for connection of 2/3 RA indoor units)	•	•	•	•
	EKDK04 Drain plug kit		•	•	

(1) For installations with special requirements towards fire regulations, the insulation material can be replaced using kits EKHBFQ1 and EKHBFQ2. The kits contain insulation material that complies with EN13501-1:B-S3,dO and BS476-7 (class 1)
(2) Requires mounting plate EKSB26B2* for 14~20HP
(3) Requires installation box KJB111A
(4) Only possible to install 1 adapter PCB

R-32

VRV S-series		VRV IV+ heat recovery		VRV IV+ heat pump		VRV IV C+series	
RXYSA4-6AV1/AY1	RXYSA8-12AAY1	REYQ8-20 REMQ5	2/3 module systems	RYYQ8-20 RYMQ8-20 RXYQ8-20	2/3 module systems	RXYLQ RXMLQ	2/3 module systems
			2 modules: BHFQ23P907A 3 modules: BHFQ23P1357		2 modules: BHFQ22P1007 3 modules: BHFQ22P1517		2 modules: BHFQ22P1007 3 modules: BHFQ22P1517
EKBPH250D		5/8-12: EKBPH012T7A 14-20: EKBPH020T7A		8-12: EKBPH012T7A 14-20: EKBPH020T7A			
DTA104A53/61/62 For installation into an indoor unit: exact adapter type depends on type of indoor unit. See Options & Accessories of indoor units		DTA104A53/61/62 For installation into an indoor unit: exact adapter type depends on type of indoor unit. For 14-20 HP the demand PCB mouting plate is required (2). See Options & Accessories of indoor units					
• (3)	Standard on unit			• (3)	1 kit per system (3)	• (3)	1 kit per system (3)
Standard on unit	Standard on unit			BRP2A81	1 kit per system	BRP2A81	1 kit per system
•				•		•	
				•		•	
•							

VRV IV i-series SB.RKXYQ			
RDXYQ5	RDXYQ8	RKXYQ5	RKXYQ8
EKDPH1RDX	EKDPH1RDX		
DTA104A53/61/62 For installation into an indoor unit: exact adapter type depends on type of indoor unit. See Options & Accessories of indoor units			
		• (3)	• (3)
			BRP2A81
		•	
		•	•

Options & accessories - VRV outdoor

		VRV III-Q Heat Pump Replacement VRV	VRV IV-Q Heat Pump Replacement VRV	
		RQYQ 140P	RXYQQ8-20	2/3-module systems
Kits	**Multi-module connection kit (obligatory)** Connects multiple modules into a single refrigerant system			2 modules: BHFQ22P1007 3 modules: BHFQ22P1517
	Central drain pan kit - Installs onto the underside of the outdoor unit and collects drain water from all bottom plate outlets into a single outlet. In cold areas should be heated by a field-supplied heater to prevent drain water from freezing in the drain pan.	KWC26B160		
	Bottom plate heater - To keep drain holes ice-free in extreme weather conditions (one per outdoor unit needed)		8-12: EKBPH012T7A 14-20: EKBPH020T7A	
Adapters	**External control adapter for outdoor unit** - Allows to activate Low Noise Operation and three levels of demand control, limiting power consumption via external dry contacts. Connects to the F1/F2 communication line and requires power supply from an indoor unit*, BSVQ box, or VRV-WIII outdoor unit.	DTA104A53/61/62 For installation into an indoor unit: exact adapter type depends on type of indoor unit. For 14-20 HP the demand PCB mouting plate is required (2). See Options & Accessories of indoor units		
	KRC19-26 Mechanical cool/heat selector – allows to switch an entire Heat Pump system, or one BS-box of a Heat Recovery system between cooling, heating and fan only. Connects to the A-B-C terminals of the outdoor unit / BS-box.	• (3)	• (3)	1 kit per system
	BRP2A81 Cool/heat selector PCB (required to connect KRC19-26 to VRV IV outdoor)		•	1 kit per system
Others	**EKPCCAB4** VRV configurator		•	
	DTA109A51 DIII-net expander adapter			

(1) For installations with special requirements towards fire regulations, the insulation material can be replaced using kits EKHBFQ1 and EKHBFQ2. The kits contain insulation material that complies with EN13501-1:B-S3,dO and BS476-7 (class 1)
(2) Requires mounting plate EKSB26B2* for 14~20HP
(3) Requires installation box KJB111A
(4) Only possible to install 1 adapter PCB

Refnets & branch selector boxes

		Refnet Joints			
		Capacity index	Capacity index	Capacity index	Capacity index
		< 200	200 ≤ x < 290	290 ≤ x < 640	> 640
Refnets	Imperial-size connections for heat recovery pump (2-pipe)	For all R-410A VRV: KHRQ22M20T For all R-410A+R-32 VRV: KHRQ22M20TA	KHRQ22M29T9	For all R-410A VRV: KHRQ22M64T For all R-32 VRV: KHRA22M65T	KHRQ22M75T
	Imperial-size connections for heat recovery pump (2-pipe) (1)	KHRQ23M20T	KHRQ23M29T	KHRQ23M64T	KHRQ23M75T
Options for Branch selector boxes (BS box) (only for connection with VRV heat recovery system)	Closed pipe kit				
	Joint kit				
	Quiet kit				
	Duct connection: To connect extraction of BSSV boxes in serial				
	Drain pump kit				

(1) For metric size connections, contact your local sales responsible
(2) not applicable for SV1A25A

VRV III-Q Heat Recovery Replacement VRV		VRV-W IV Water-cooled VRV		
			Heat Pump application	Heat Recovery application
RQEQ 140~212	2/3/4-module systems	RWEYQ8-14	2/3-module systems	2/3-module systems
	2/3 modules: BHFP26P36C 4 modules: BHFP26P84C		BHFQ22P1007 / BHFQ22P1517 (1)	BHFQ23P907 / BHFQ23P1357 (1)
		DTA104A53/61/62 Installation in the RWEYQ outdoor unit possible. For installation in indoor units, use appropriate type (DTA104A53/61/62) for particular indoor unit. See Options & Accessories of indoor units		
		• (for H/P only) (3)	1 kit per system	
		• (for H/P only)	1 kit per system	
		•	•	•
		•	•	•

			R-32	R-32	R-410A	
Refnet Headers			VRV 5 Heat Recovery Branch Selector (BSSV) boxes	VRV 5 Heat Pump optional Shut off valve (SV) boxes	VRV IV Heat Recovery Branch Selector (BS) boxes	
Capacity index	Capacity index	Capacity index	Multi port	Single & multi port	1-port	Multi port
< 290	290 ≤ x < 640	> 640	BS-A14AV1B9	SV-A	BS1Q-A	BS-Q14AV1B
KHRQ22M29H	For all R-410A VRV: KHRQ22M64H For all R-32 VRV: KHRA22M65H	KHRQ22M75H				
KHRQ23M29H	KHRQ23M64H	KHRQ23M75H				
				Accessories in the box		KHFP26A100C
			EKBSJK	EKBSJK (2)		KHRP26A250T
					EKBSVQLNP	4 port: KDDN26A4 6-8 port: KDDN26A8 10-12 port: KDDN26A12 16 port: KDDN26A16
			EKBSDCK	EKBSDCK		
			K-KDU303KVE	K-KDU303KVE		

Options & accessories - VRV indoor R-32 BLUEVOLUTION

			Ceiling mounted cassette units		
			Round flow (800x800)	Fully flat (600x600)	Corner (1-way)
			FXFA-A	FXZA-A	FXKA-A
Panels	**Decoration panel** (obligatory for cassette units, optional for others, rear panel for FXLQ)		Standard panels: BYCQ140E (white) / BYCQ140EW (full white)(3) / BYCQ140EB (black) Auto cleaning (5)(6): BYCQ140EGF (white) / BYCQ140EGFB (black) Designer panels: BYCQ140EP (white) / BYCQ140EPB (black)	BYFQ60C4W1W (white panel) (19) BYFQ60C4W1S (grey panel) (19) BYFQ60B3W1 (standard panel) (20)	20-32: BYK32G 40-63: BYK63G
	Panel spacer for reducing required installation height			KDBQ44B60 (Standard panel)	
	Sealing kit for 3- or 2-directional air discharge		KDBHQ56B140 (7)	BDBHQ44C60 (white & grey panel)	
	Sensor kit		BRYQ140B (white panels) BRYQ140BB (black panels) BRYQ140C (white designer panel) BRYQ140CB (black designer panel)	BRYQ60A3W (white) BRYQ60A3S (grey)	
Individual control systems	Infrared remote control (incl. receiver)		BRC7FA532F (white panels) (7)(15) BRC7FA532FB (black panels) (7)(15) BRC7FB532F (white designer panel) (7)(15) BRC7FB532FB (black designer panel) (7)(15)	BRC7F530W (9) (10) (white panel) BRC7F530S (9) (10) (grey panel) BRC7EB530W (9) (10) (standard panel)	
	BRP069C51 - Onecta app		•	•	•
	Madoka **BRC1H52W7** (White) / **BRC1H52S7** (Silver) / **BRC1H52K7** (Black) User-friendly wired remote controller with premium design		• (mandatory)	• (mandatory)	• (mandatory)
	BRC1E53A/B/C - Wired remote control with full-text interface and back-light				
	BRC1D52 (4) - Standard wired remote control with weekly timer				
Centralised control systems	**DCC601A51** - intelligent Tablet Controller		•	•	•
	DCS601C51 (12) - intelligent Touch Controller		•	•	•
	DCS302C51 (12) - Central remote controller		•	•	•
	DCS301B51 (12) (13) - Unified ON/OFF controller		•	•	•
Building Management System & Standard protocol interfaces – for individual control	**EKMBPP1A** - Modbus interface for monitoring and control (check compatibility)		•	•	•
	RTD-10 - Modbus interface for infrastructure cooling		•	•	•
	RTD-20 - Modbus interface for retail		•	•	•
	RTD-HO - Modbus interface for hotel		•	•	•
	KLIC-DI_V2 - KNX Interface		•	•	•
Building Management System & Standard protocol interfaces – for central control	**DCM601B51** - intelligent Touch Manager		•	•	•
	DGE601A51 - Edge adapter for connection to Daikin Cloud Plus		•	•	•
	DGE602A51 - Edge lite adapter for connection to Daikin Cloud Plus		•	•	•
	EKMBDXB - Modbus interface		•	•	•
	DCM010A51 - Daikin PMS interface		•	•	•
	DMS502A51 - BACnet Interface		•	•	•
	DMS504B51 - LonWorks Interface		•	•	•
Filters	Auto cleaning filter		see decoration panel		
	UV Streamer kit (purifies the air of pollutants such as virusses, bacteria, fine dust, odours, allergens, etc ensuring a healthy indoor environment)	UV Streamer kit	BAEF125AWB (22)		
		Replacement filter	BAF55A125		
	High efficiency filter		ePM10 60% BAF552AA160 (23) (BAF552AA160-5: box of 5 filters) (BAF552AA160-10: box of 10 filters)		
	Replacement long life filter, non-woven type		KAF5511D160	KAF441C60	
	Pre-filter				
	Filter chamber				
Wiring and sensors	**KRCS** - External wired temperature sensor		KRCS01-5B	KRCS01-6B	KRCS01-6B
	K.RSS - External wireless temperature sensor		SB.K.RSS_RFC (EKEWTSC-2 + K.RSS)	SB.K.RSS_FDA (EKEWTSC-1 + K.RSS)	SB.K.RSS_FDA (EKEWTSC-1 + K.RSS)
Adapters	Adapter with 2 output signals (Compressor / Error, Fan output)		KRP1BA58 (2)(7)	ERP02A50 (2)	ERP02A50 (2)
	Adapter with 4 output signals (Compressor / Error, Fan, Aux. heater, Humidifier output)		EKRP1C12 (2)(7)	EKRP1C14 (2)	EKRP1C14 (2)
	Adapter for centralised external monitoring/control via dry contacts and setpoint control via 0-140Ω (for dedicated indoor)		KRP4A53 (2)(7)	KRP4A53 (2)	KRP4A53 (2)
	Adapter for external central monitoring/control (controls 1 entire system)			KRP2A52	KRP2A52
	Adapter for keycard and/or window contact connection (2)(11)		BRP7A53	BRP7A53 (2)	BRP7A51 (2)
	Adapter for multi-tenant applications (24VAC PCB power supply interface)		DTA114A61	DTA114A61	DTA114A61
	External control adapter for outdoor unit (installation on indoor unit)				
	Installation box / Mounting plate for adapter PCBs (For units where there is no space in the switchbox)		KRP1H98A (7) KRP1BC101	KRP1BC101	KRP1BC101 / KRP4B93
	Wiring kit for Remote ON/OFF or Forced OFF		Standard	Standard	Standard
	Relay PCB for output signal of refrigerant sensor		ERP01A51 (2)	ERP01A50 (2)	ERP01A50 (2)
Others	Drain pump kit		Standard	Standard	Standard
	Multi zoning kit (for detailed model code overview refer to multizoning argue card in this catalogue)				
	Fresh air intake kit (direct installation type)		KDDP55C160-1 + KDDP55D160-2 (7)(8)	KDDQ44XA60	
	Air discharge adapter for round duct				
	L-type piping kit				
	Insulation kit for high humidity				

(1) pump station is necessary for this option
(2) Installation box is necessary for these adapters
(3) The BYCQ140EW has white insulation. Be informed that formation of dirt on white insulation is visibly stronger and that it is consequently not advised to install the BYCQ140EW decoration panel in environments exposed to concentrations of dirt*
(4) Not recommended because of the limitation of the functions
(5) To be able to control the BYCQ140EGF(B) the controller BRC1E or BRC1H* is needed
(6) The BYCQ140EGF(B) is not compatible with Multi and Split Non-Inverter Outdoor units
(7) Option not available in combination with BYCQ140EGF(B)
(8) Both parts of the fresh air intake are needed for each unit
(9) Cannot be combined with sensor kit
(10) Independently controllable flaps function not available
(11) Only possible in combination with BRC1H* / BRC1E*
(12) When fixing box is required, use KJB212A, KJB311A or KJB411A depending on the size of the

Concealed ceiling units (duct units)			Ceiling suspended units		Wall mounted units	Floor standing units
Slim	Medium ESP	High ESP	1-way blow	4-way blow		Concealed
FXDA-A	FXSA-A	FXMA-A	FXHA-A	FXUA-A	FXAA-A	FXNA-A
				KDBHP49B140 + KDBTP49B140		
				BRE49B2F		
BRC4C65	BRC4C65	BRC4C65	BRC7GA53-9	BRC7C58	BRC7EA630	BRC4C65
•	•	•	•	•	•	•
• (mandatory)	• (mandatory)	• (mandatory)	• (mandatory)	• (mandatory)	• (mandatory)	• (mandatory)
•	•	•	•	•	•	•
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•	•	•	•	•	•	•
15-32: BAE20A62 40-50: BAE20A82 63: BAE20A102						
		Replacement filters for 200~250: BAFM503A250 (65%) (21) BAFH504A250 (90%) (21)				
		200~250: BAFL502A250 (21)	32: KAF501B56 50~63: KAF501B80 71~100: KAF501B160	KAFP551K160		
		200~250: BAFL501A250				
		200~250: BDD500B250				
KRCS01-6B	KRCS01-6B	KRCS01-6B	KRCS01-6B	KRCS01-6B	KRCS01-6B	KRSC01-6B
SB.K.RSS_FDA (EKEWTSC-1 + K.RSS)	SB.K.RSS_FDA (EKEWTSC-1 + K.RSS)	SB.K.RSS_FDA (EKEWTSC-1 + K.RSS)	SB.K.RSS_FDA (EKEWTSC-1 + K.RSS)	SB.K.RSS_FDA (EKEWTSC-1 + K.RSS)	SB.K.RSS_FDA (EKEWTSC-1 + K.RSS)	SB.K.RSS_FDA (EKEWTSC-1 + K.RSS)
			KRP1BA58			
ERP02A50 (2)	EKRP1C14 (2)	EKRP1C14 (2)		EKRP1C14 (2)	ERP02A50 (2)	ERP02A50 (2)
KRP4A54-9 (2)	KRP4A52(2)	50~125: KRP4A52 200~250: KRP4A51	KRP4A52 (2)	KRP4A53 (2)	KRP4A51 (2)	KRP4A54-9 (2)
KRP2A53 (2)	KRP2A51(2)	KRP2A51	KRP2A62		KRP2A61(2)	KRP2A53 (2)
BRP7A54	BRP7A51	BRP7A51	BRP7A52 (2)	BRP7A53	BRP7A51 (2)	BRP7A54 (2)
DTA114A61	DTA114A61	DTA114A61	DTA114A61-9	DTA114A61-9	DTA114A61	
DTA104A53	DTA104A61 (2)	DTA104A61 (2)	DTA104A61	DTA104A61	DTA104A51(2) / DTA104A61(2)	DTA104A53 (2)
KRP1BC101	KRP1BC101	KRP1BC101	KRP1D93A/KRP4B93	KRP1B97 / KRP1C97	KRP4A93	KRP1BC101
	Standard	Standard	standard	standard	Standard	Standard
ERP01A51 (2)	ERP01A50 (2)	ERP01A50	ERP01A51 (2)	ERP01A51 (2)	ERP01A51 (2)	ERP01A51 (2)
Standard	Standard	200~250: BDU510B250VM	32-50-63: KDU50R63 100: KDU50R160		K-KDU572KVE	
	15~32: KDAP25A36A 40~50: KDAP25A56A 63~80: KDAP25A71A 100~125: KDAP25A140A 140: -	50~80: KDAJ25K71 100~125: KDAJ25K140 200~250: -				
			32: KHFP5M35 50~63: KHFP5N63 71~100: KHFP5N160			
KDT25N32 / KDT25N50 / KDT25N63						

controller
(13) Option KEK26-1A (Noise filter) is required when installing DCS301B51
(14) Wire harnass EKEWTSC is necessary
(15) The active airflow circulation function is not available for this controller.
(16) Up to 2 adaptor PCBs can be installed per installation box
(17) Only one installation box can be installed per indoor unit
(18) VRV R-32 indoor units cannot be connected to this controller
(19) The BYFQ60C4* R-32 panels can be connected to R-410A indoor units with wire harness EKRS22
(20) Wire harness EKRS23 is necessary
(21) Filter chamber needed (BDD500B250)
(22) Only possible in combination with BYCQ140E and BYCQ140EW. Cannot be combined with other filters, chambers, fresh air intake kits or air discharge outlet sealing member kit
(23) Only possible in combination with BYCQ140E/EW/EB. Cannot be combined with other filters, chambers, fresh air intake kits or discharge outlet sealing member kit

Options & accessories - VRV indoor & hot water

R-410A

LOOP BY DAIKIN

			Ceiling mounted cassette units			
			Round flow (800x800)	4-way (600x600)	2-way blow	Corner (1-way blow)
			FXFQ-B	FXZQ-A	FXCQ-A	FXKQ-A
Panels	**Decoration panel** (obligatory for cassette units, optional for others, rear panel for FXLQ)		Standard panels: BYCQ140E (white) / BYCQ140EW (full white)(3) / BYCQ140EB (black) Auto cleaning (5)(6): BYCQ140EGF (white) / BYCQ140EGFB (black) Designer panels: BYCQ140EP (white) / BYCQ140EPB (black)	BYFQ60C2W1W (white panel) BYFQ60C2W1S (grey panel) BYFQ60B3W1 (standard panel)	20~40: BYBCQ40H 50~63: BYBCQ63H 80~125: BYBCQ125H	20-32: BYK32G 40-63: BYK63G
	Panel spacer for reducing required installation height			KDBQ44B60 (Standard panel)		
	Sealing kit for 3- or 2-directional air discharge		KDBHQ56B140 (7)	BDBHQ44C60 (white & grey panel)		
	Sensor kit		BRYQ140B (white panels) BRYQ140BB (black panels) BRYQ140C (white designer panel) BRYQ140CB (black designer panel)	BRYQ60A2W (white) BRYQ60A2S (grey)		
Individual control systems	Infrared remote control including receiver		BRC7FA532F (white panels) (7)(15) BRC7FA532FB (black panels) (7)(15) BRC7FB532F (white designer panel) (7)(15) BRC7FB532FB (black designer panel) (7)(15)	BRC7F530W (9) (10) (white panel) BRC7F530S (9) (10) (grey panel) BRC7EB530W (9) (10) (standard panel)	BRC7C52	
	BRP069C51 - Onecta app					
	Madoka **BRC1H52W7** (White) / **BRC1H52S7** (Silver) / **BRC1H52K7** (Black) User-friendly wired remote controller with premium design		•	•	•	•
	BRC1E53A/B/C - Wired remote control with full-text interface and back-light		•	•	•	•
	BRC1D52 (4) - Standard wired remote control with weekly timer		• (15)	•	•	•
Centralised control systems	**DCC601A51** - Intelligent Tablet Controller		•	•	•	•
	DCS601C51 (12) - intelligent Touch Controller		•	•	•	•
	DCS302C51 (12) - Central remote control		•	•	•	•
	DCS301B51 (12) (13) - Unified ON/OFF control		•	•	•	•
Building Management System & Standard protocol interfaces – for individual control	**EKMBPP1A** - Modbus interface for monitoring and control		•	•	•	•
	RTD-10 - Modbus interface for infrastructure cooling		•	•	•	•
	RTD-20 - Modbus interface for retail		•	•	•	•
	RTD-HO - Modbus interface for hotel		•	•	•	•
	KLIC-DI_V2 - KNX Interface		•	•	•	•
Building Management System & Standard protocol interfaces – for central control	**DCM601B51** - intelligent Touch Manager		•	•	•	•
	DGE601A51 - Edge adapter for connection to Daikin Cloud Plus		•	•	•	•
	DGE602A51 - Edge lite adapter for connection to Daikin Cloud Plus		•	•	•	•
	EKMBDXB - Modbus interface		•	•	•	•
	DCM010A51 - Daikin PMS interface		•	•	•	•
	DMS502A51 - BACnet Interface		•	•	•	•
	DMS504B51 - LonWorks Interface		•	•	•	•
Filters	Auto cleaning filter		see decoration panel			
	UV Streamer kit (purifies the air of pollutants such as virusses, bacteria, fine dust, odours, allergens, etc ensuring a healthy indoor environment)	UV Streamer kit	BAEF125AWB (22)			
		Replacement filter	BAF55A125			
	High efficiency filter		BAF552AA160 ePM10 60% (26) (BAF552AA160-5: box of 5 filters) (BAF552AA160-10: box of 10 filters)			
	Replacement long life filter, non-woven type		KAF5511D160	KAF441C60	20~40: KAF531C50 50~63: KAF531C80 80~125: KAF531C160	
	Pre-filter					
	Filter chamber					
Wiring and sensors	**KRCS** - External wired temperature sensor		KRCS01-5B	KRCS01-4	KRCS01-4	KRCS01-6B
	K.RSS - External wireless temperature sensor		K.RSS	K.RSS	•	SB. K.RSS_FDA (EKEWTSC-1 + K.RSS)
Adapters	Adapter with 2 output signals (Compressor / Error, Fan output)		KRP1BA58 (2)(7)	KRP1B57 (2)		
	Adapter with 4 output signals (Compressor / Error, Fan, Aux. heater, Humidifier output)		EKRP1C12 (2)(7)	EKRP1B2 (2)	EKRP1B2 (2)	EKRP1C14 (2)
	Adapter for centralised external monitoring/control via dry contacts and setpoint control via 0-140Ω (for dedicated indoor)		KRP4A53 (2)(7)	KRP4A53 (2)	KRP4A51 (2)	KRP4A53 (2)
	Adapter for external central monitoring/control (controls 1 entire system)			KRP2A52	KRP2A51 (2)	KRP2A52
	Adapter for keycard and/or window contact connection (2)(11)		BRP7A53	BRP7A53 (2)	BRP7A51	BRP7A51 (2)
	Adapter for multi-tenant applications (24VAC PCB power supply interface)		DTA114A61	DTA114A61	DTA114A61-9	DTA114A61
	External control adapter for outdoor unit (installation on indoor unit)				DTA104A61 (2)	
	Installation box / Mounting plate for adapter PCBs (For units where there is no space in the switchbox)		KRP1H98A (7) KRP1BC101	KRP1BC101	KRP1C96 (16) (17)	KRP1BC101 / KRP4B93
	Wiring kit for Remote ON/OFF or Forced OFF		Standard	Standard	Standard	Standard
	Relay PCB for output signal of refrigerant sensor					
Others	Drain pump kit		Standard	Standard	Standard	Standard
	Multi zoning kit (for detailed model code overview refer to multizoning argue card in this catalogue)					
	Fresh air intake kit (direct installation type)		KDDP55C160-1 + KDDP55D160-2 (7)(8)	KDDQ44XA60		
	Air discharge adapter for round duct					
	L-type piping kit					
	Filter chamber for bottom suction				20~40: KDDFP53B50 50~63: KDDFP53B80 80~125: KDDFP53B160	
	Insulation kit for high humidity					

(1) pump station is necessary for this option
(2) Installation box is necessary for these adapters
(3) The BYCQ140EW has white insulation. Be informed that formation of dirt on white insulation is visibly stronger and that it is consequently not advised to install the BYCQ140EW decoration panel in environments exposed to concentrations of dirt"
(4) Not recommended because of the limitation of the functions
(5) To be able to control the BYCQ140EGF(B) the controller BRC1E or BRC1H* is needed
(6) The BYCQ140EGF(B) is not compatible with Multi and Split Non-Inverter Outdoor units
(7) Option not available in combination with BYCQ140EGF(B)
(8) Both parts of the fresh air intake are needed for each unit
(9) Cannot be combined with sensor kit
(10) Independently controllable flaps function not available
(11) Only possible in combination with BRC1H* / BRC1E*
(12) When fixing box is required, use KJB212A, KJB311A or KJB411A depending on the size of the controller
(13) Option KEK26-1A (Noise filter) is required when installing DCS301B51
(14) Wire harnass EKEWTSC is necessary
(15) The active airflow circulation function is not available for this controller.
(16) Up to 2 adaptor PCBs can be installed per installation box
(17) Only one installation box can be installed per indoor unit
(18) VRV R-32 indoor units cannot be connected to this controller

Concealed ceiling units (duct units)				Ceiling suspended units		Wall mounted units	Floor standing units	
Slim	Medium ESP	High ESP		1-way blow	4-way blow		Concealed	Free-standing
FXDQ-A3	FXSQ-A	FXMQ-P7	FXMQ-A	FXHQ-A	FXUQ-A	FXAQ-A	FXNQ-A	FXLQ-P
								20~25: EKRDP25A5 32~40: EKRDP40A5 50~63: EKRDP63A5
					KDBHP49B140 + KDBTP49B140			
BRC4C65	BRC4C65	BRC4C65	BRC4C65	BRC7GA53-9	BRC7C58	BRC7EA629 / BRC7EA628	BRC4C65	BRC4C65
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
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•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
15-32: BAE20A62 40-50: BAE20A82 63: BAE20A102								
			Replacement filter BAFM503A250 (65%) (21) BAFH504A250 (90%) (21)					
			BAFL502A250 (21)	32: KAF501B56 63: KAF501B80 100: KAF501B160	KAF5511D160			20~25: KAF361L28 32~40: KAF361L45 50~63: KAF361L71
			BAFL501A250					
			BDD500B250					
KRCS01-4	KRCS01-4	KRCS01-4	KRCS01-6B	KRCS01-4	KRCS01-4	KRCS01-1	KRSC01-4	KRCS01-1
K.RSS	K.RSS	•	SB.K.RSS_FDA (EKEWTSC-1 + K.RSS)	•	•	K.RSS + EKEWTSC	•	•
		KRP1C64 (2)	KRP1C65	KRP1B54 (2)				
KRP1B56	EKRP1B2 (2)	EKRP1B2 (2)	EKRP1C14 (2)				KRP1B56	KRP1B61
KRP4A54-9 (2)	KRP4A52 (2)	KRP4A51 (2)	KRP4A51	KRP4A52 (2)	KRP4A53 (2)	KRP4A51 (2)	KRP4A54-9	KRP4A51
KRP2A53 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51	KRP2A62 (2)		KRP2A51 (2)/ KRP2A61(2)	KRP2A53	KRP2A51
BRP7A54	BRP7A51	BRP7A51	BRP7A51	BRP7A52	BRP7A53	BRP7A51 (2)	BRP7A54	BRP7A51
DTA114A61	DTA114A61 (2)	DTA114A61 (2)	DTA114A61	DTA114A61-9	DTA114A61-9	DTA114A61	DTA114A61	EKMTAC
DTA104A53	DTA104A61	DTA104A61 (2)	DTA104A61	DTA104A62-9		DTA104A51 / DTA104A61	DTA104A53	DTA104A61
KRP1BC101	KRP1BC101	KRP4A96		KRP1D93A (19)	KRP1B97	KRP4AA93 (16)(17)	KRP1BC101	
	Standard	Standard	Standard	EKRORO4	EKRORO5	Standard	Standard	Standard
Standard	Standard	Standard	BDU510B250VM	32: KDU50R63 63~100: KDU50R160		K-KDU572KVE		
•	•							
	15~32: KDAP25A36A 40~50: KDAP25A56A 63~80: KDAP25A71A 100~125: KDAP25A140A 140: -	50~80: KDAJ25K71 100~125: KDAJ25K140						
				32: KHFP5N63 63~100: KHFP5N160				
KDT25N32 / KDT25N50 / KDT25N63								

(19) The BYFQ60C4* R-32 panels can be connected to R-410A indoor units with wire harness EKRS22
(20) Wire harness EKRS23 is necessary
(21) Filter chamber needed (BDD500B250)
(22) Only possible in combination with BYCQ140E and BYCQ140EW. Cannot be combined with other filters, chambers, fresh air intake kits or air discharge outlet sealing member kit
(23) Requires demand PCB
(24) Can only be used in combination with wireless room thermostat
(25) If tank is NOT mounted on top of the HXHD unit, then option EKFMAHTB is needed to install tank as stand alone
(26) Only possible in combination with BYCQ140E/EW/EB. Cannot be combined with other filters, chambers, fresh air intake kits or discharge outlet sealing member kit

Hot water

	HXY080-125A8	HXHD125-200A8
Drain pan	EKHBDPCA2	-
Digital I/O PCB	EKRP1HBAA	EKRP1HBAA
Demand PCB - Required to connect room thermostat	EKRP1AHTA	EKRP1AHTA
Remote user interface (remocon) - Same controller as supplied with cascade unit can be mounted parallel or on other location. If 2 controllers are installed, the installer needs to select 1 master & 1 slave	EKRUAHTB	EKRUAHTB
Back-up heater	EKBUHAA6(W1/V3)	-
Wired room thermostat	EKRTWA (23)	EKRTWA (23)
Wireless room thermostat	EKRTR1 (23)	EKRTR1 (23)
Remote sensor for room thermostat	EKRTETS (24)	EKRTETS (23)
Stainless domestic hot water tank - 200l	-	EKHTS200AC (25)
Stainless domestic hot water tank - 260l	-	EKHTS260AC (25)
PP domestic hot water tank - 300l	-	EKHWP300B
PP domestic hot water tank - 500l	-	EKHWP500B
Solar collector	-	EKSV26P (vertical) EKSH26P (horizontal)
Pump station	-	EKSRPS



Indoor Air Quality matters more than ever. Since indoor air quality can be up 2 to 5 times worse than outdoor air quality, a correct air treatment is important.

Daikin offers the widest range in DX commercial ventilation from decentralised heat recovery systems to large-scale air handling units and air purification solutions in order to provide a healthy solution for your project.

Commercial Ventilation & Air Purification

ERV / HRV - Energy/Heat recovery ventilation units 567

- Why choose Daikin ventilation 568
- VAM-FC9/J8 570
- Electrical heater for VAM 571
- EKVDX - DX coil for air processing 572
- VKM-GBM 574
- ALB-S Compact L Smart 576
- Electrical heater for Compact L Smart 577
- ATB-S Compact T Smart 578
- Marketing Tools 580
- Supporting tool, software and apps 581
- Daikin air handling units with DX connection 584
- ERA-AV/AY/AYF NEW 590

Commercial air purifier 594

- Advantages 594
- BR00000554/676/749/751 - AAF Astropure 2000 595

Options & accessories 596

Want to know more about ventilation systems and how indoor air quality can be secured by ventilation? Follow our online webinar via the YouTube playlist.

For latest data, please consult my.daikin.eu

Why Indoor Air Quality?



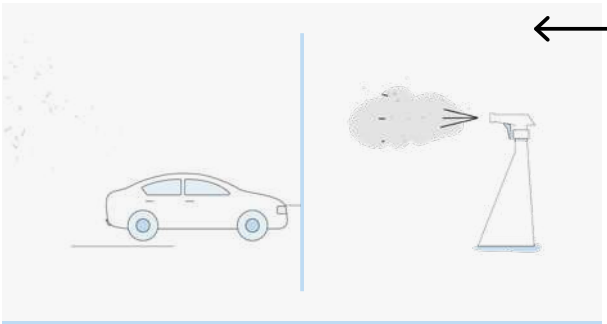
We spend 90% of our time indoors in closed spaces such as schools, buildings, offices, etc.



But did you know that the indoor air can be up to **2-5 times worse** than the air outside?



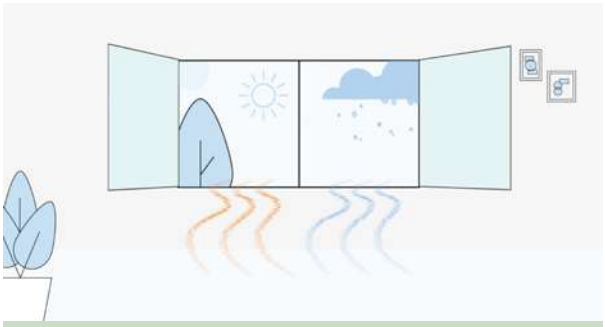
Due to growing urbanization and high insulation of the buildings, pollutants get trapped inside leading to poor indoor air quality causing moisture increase and other health issues.



Sources of indoor air pollution are more common than we think. VOCs released from cleaning products, furniture, or even from new building materials can linger inside. Pollution from the outside released from vehicles, etc. can also be a potential source of indoor air pollution.



Poor IAQ is linked to respiratory short-term issues like allergies, asthma, and also in the long term to diseases such as respiratory infections, and cardiovascular disease. The risk is greatest for the elderly and young children who tend to spend more time indoors.



Opening windows could also lead to ingress of pollutants and substantial energy losses. Moreover, many situations linked to security, acoustic, outside pollution, etc… do not allow to make use of them.

The solution? **A combination of various components** such as ventilation, air processing, filtration & air purification can contribute to better indoor air quality.

Watch our indoor air quality video on YouTube **to learn more** about sources and consequences of poor air quality.

5 components for ensuring good indoor air quality

Air processing

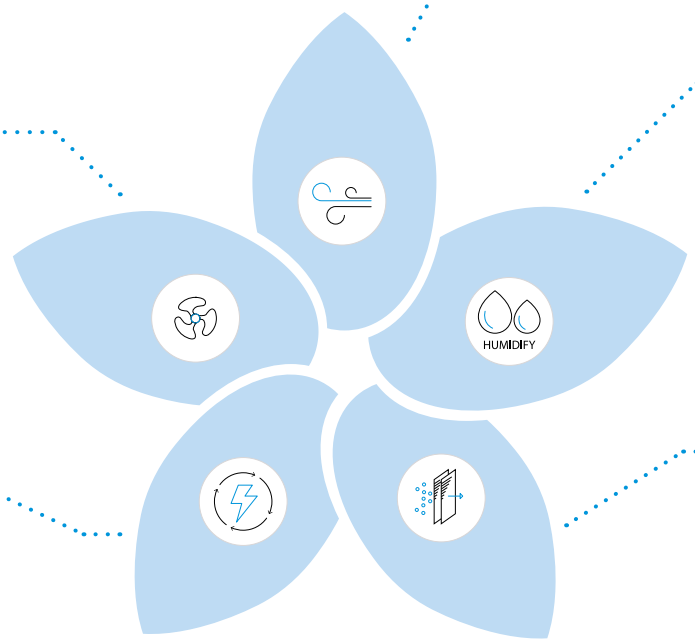
Delivers the required conditioned air to **optimise the energy efficiency** of indoor HVAC equipment

Humidification

Ensures the **desired moisture level** in the conditioned space

Ventilation

Ensures the provision of fresh and clean outdoor air and **removes contaminated stale air**



Energy & recovery

Delivers **energy savings** by transferring heat and moisture between airflows, thus helping to condition the supply air to the required indoor temperature and humidity levels

Filtration & purification

Ensures **clean and healthy air** by filtering out pollen, dust, odours and other contaminants that are harmful to our health

Ventilation

Ventilation systems ensure **optimal climate conditions** by providing a **fresh, healthy and comfortable** environment for buildings of all sizes and applications. When a room is enclosed, air cannot easily enter or leave, allowing airborne pollutants to remain and accumulate within the space. This concentration could have an impact on the health of the room's occupants. **Ventilation is essential for diluting and removing these pollutants.**

A **well-maintained ventilation system** and **adequate air-exchange rate** have been demonstrated to be an effective solution to **protect people** from contaminants, including viruses.



Widest range of DX integrated ventilation on the market

Daikin offers a variety of solutions from small energy recovery ventilation to large-scale air handling units for the provision of fresh air ventilation for commercial premises.



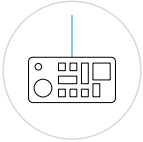
Unique portfolio within DX manufacturers that can easily be integrated into any project



High-quality solutions complying with the **highest Daikin quality standards**



Seamless integration of all products to provide the best indoor climate



All Daikin products connected to a single controller for **complete control** of the HVAC system

Energy Recovery Ventilation

Our energy recovery units **recover sensible energy** (Compact L/ Compact T) or **total (sensible + latent) energy** (VAM/EKVDX/VKM-GBM), substantially reducing the load on the air conditioning system up to 40%.

Ventilation with DX connection - Control over fresh air temperature

Daikin offers a range of inverter condensing units to be used in combination with Daikin AHUs for ultimate control over the fresh air. There are 4 control possibilities when **combining AHU and Daikin outdoor units** hence offering all the required flexibility for any installation. Indoor units can be combined to the same outdoor unit to reduce the installation costs. For **false-ceiling installations** where space is a constraint, the VKM can fit perfectly to deliver fresh air at a comfortable temperature and it has an optional humidification element.

Products overview

150 | 500 | 1,000 | 2,000 | 2,500 | 3,000 | 3,500 | 4,000 | 15,000 | 25,000 | 140,000 [m³/h]

Decentralised systems



- Superior IAQ level: up to three stage filtration on supply side
- DX coil integration for a unique Daikin fresh air package
- Plug&Play control solution, for a quick and easy start-up

Compact T 200 m³/h up to 4,200 m³/h



- High efficiency counterflow heat exchanger
- VDI 6022 Compliant
- Compact design for false ceiling installation

Compact L 150 m³/h up to 4,000 m³/h



- Compact size
- High energy efficient paper recovering sensible and latent heat
- EC fan motors
- Filter clogging alarm based on pressure

VAM-FC9 / VAM-J 150 m³/h up to 2,000 m³/h



- DX coil for post-treatment of fresh air
- Split up concept increases application flexibility
- Integrates both in R-32 and R-410A VRV systems

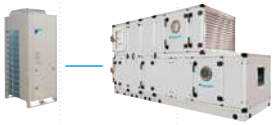
VAM + DX coil 500 m³/h up to 2,000 m³/h



- With DX coil for post-treated fresh air
- Increased comfort
- Humidifier option

VKM-GBM 500 m³/h up to 1,000 m³/h

Centralised systems



- Fully customizable
- Daikin Digital Plug & Play Control as option
- With DX or water coil option

D-AHU PROFESSIONAL 750 m³/h up to 144,000 m³/h



- High efficiency aluminium plate heat exchanger
- Pre-configured sizes
- Plug & Play controls
- With DX or water coil option

D-AHU Modular P 500 m³/h up to 25,000 m³/h



- Rotary heat exchanger (sorption and sensible technology)
- Pre-configured sizes
- Plug & Play controls
- With DX or water coil option

D-AHU Modular R 500 m³/h up to 25,000 m³/h

5 reasons why Daikin's ventilation range is unique in the market

Market leading controls & connectivity

- Interlock of ventilation and air conditioning system
  - Control ERV/HRV and air conditioning from the same controller
  - Aligns the operation mode between the systems to save energy
- Easy integration in the total solution
  - Online control and monitoring via the Daikin Cloud Service
  - Full portfolio integration in the intelligent Touch Manager, Daikin's cost-effective mini BMS
- User-friendly controller with premium design
  - Intuitive touch button control

Madoka



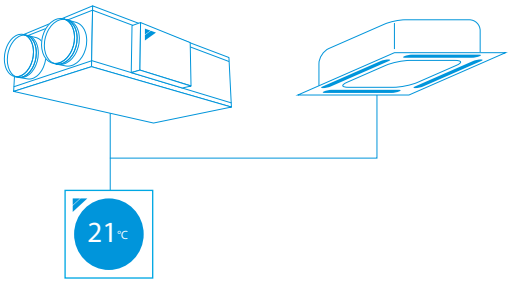
DAIKIN CLOUD PLUS





DESIGN AWARD 2018

reddot award 2018 winner



Unique installation benefits

- Integrates seamlessly in the Daikin total solution, ensuring a single point of contact
- Total fresh air solution with Daikin supplying the VAM/Compact L Smart, Compact T and the electrical heater
- Daikin AHU and condensing unit connect Plug & Play thanks to same pipe diameters, factory mounted controls, expansion valves, etc.





High energy efficiency

- Energy recovery of up to 92%, reducing running costs
- Free nighttime cooling using fresh outside air
- Inverter driven centrifugal fans
- ErP compliant

Up to **92%** energy recovery

Best comfort

- Wide range of units to control fresh air and humidity
- Wide range of optional filters to suit the application available up to ePM$_1$ 80% (F9)
- Special paper heat exchanger recovers heat and moisture from extract air to warm up and humidify fresh air to comfortable levels (VAM, VKM)

Top reliability

- Most extensive testing before new units leave the factory
- Widest support network and after sales service
- All spare parts available in Europe

ErP COMPLIANT

Did you know?

CO_2 levels and ventilation rates all have significant, independent impacts on cognitive function:

Please refer to our dedicate page on Indoor Air Quality for more information.

Cognitive function scores …

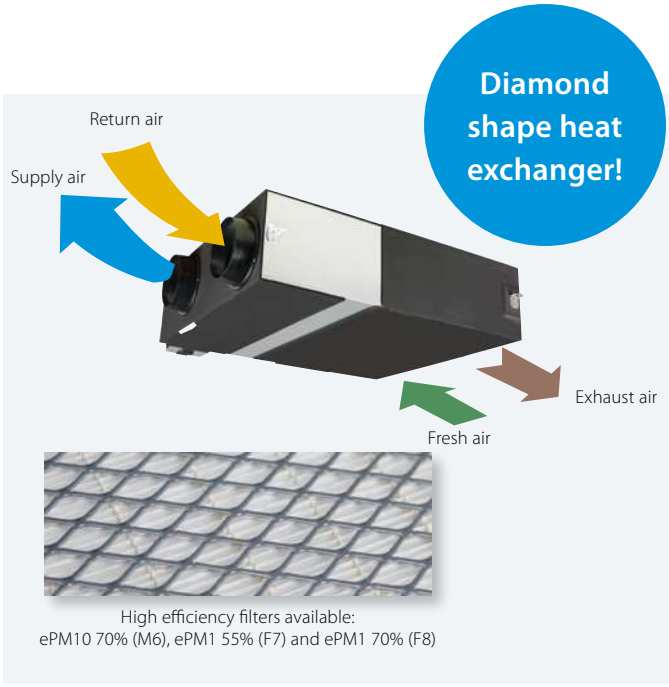
+ 61%
in green building conditions

+ 101%
in enhanced green building conditions

Energy recovery ventilation

Ventilation with heat recovery as standard

- Thinnest High Efficiency Enthalpy Heat Exchanger in the market (J-series)
- Energy saving ventilation using indoor heating, cooling and moisture recovery
- Free cooling possible when outdoor temperature is below indoor temperature (eg. during nighttime)
- Prevent energy losses from over-ventilation while improving indoor air quality with optional CO_2 sensor (J-series)
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume (J - series)
- Can be used as stand alone or integrated in the Sky Air or VRV system
- Wide range of units: air flow rate from 150 up to 2,000 m^3/h
- Shorter installation time thanks to easy adjustment of nominal air flow rate, so less need for dampers compared with traditional installation
- No drain piping needed
- Can create under/over-pressure conditions in the served room
- Total solution for fresh air with Daikin supply of both VAM / VKM and electrical heaters
- VAM-J8 series are connectable to EKVDX DX coil for air processing
- Possibility of CO_2 concentration when combining VAM-J8 with optional BRYMA CO_2 sensor and Madoka remote controller (with or without EKVDX)



High efficiency filters available:
ePM10 70% (M6), ePM1 55% (F7) and ePM1 70% (F8)

ErP COMPLIANT

VAM-FC9 VAM-J8

Ventilation				VAM/VAM	150FC9	250FC9	350J8	500J8	650J8	800J8	1000J8	1500J8	2000J8
Power input - 50Hz	Heat exchange mode	Nom.	Ultra high/High/Low	kW	0.132/0.111/0.058	0.161/0.079/0.064	0.097/0.070/0.039	0.164/0.113/0.054	0.247/0.173/0.081	0.303/0.212/0.103	0.416/0.307/0.137	0.548/0.384/0.191	0.833/0.614/0.273
	Bypass mode	Nom.	Ultra high/High/Low	kW	0.132/0.111/0.058	0.161/0.079/0.064	0.085/0.061/0.031	0.148/0.100/0.045	0.195/0.131/0.059	0.289/0.194/0.086	0.417/0.300/0.119	0.525/0.350/0.156	0.835/0.600/0.239
Temperature exchange efficiency - 50Hz	Ultra high/High/Low			%	77.0(1)/72.0(2)/78.3(1)/72.3(2)/82.8(1)/73.2(2)	74.9(1)/69.5(2)/76.0(1)/70.0(2)/80.1(1)/72.0(2)	85.1/86.7/90.1	80.0/82.5/87.6	84.3/86.4/90.5	82.5/84.2/87.7	79.6/81.8/86.1	83.2/84.8/88.1	79.6/81.8/86.1
Enthalpy exchange efficiency - 50Hz	Cooling	Ultra high/High/Low		%	60.3(1)/61.9(1)/67.3(1)	60.3(1)/61.2(1)/64.5(1)	65.2/67.9/74.6	59.2/61.8/69.5	59.2/63.8/73.1	67.7/70.7/76.8	62.6/66.4/74.0	68.9/71.8/77.5	62.6/66.4/74.0
	Heating	Ultra high/High/Low		%	66.6(1)/67.9(1)/72.4(1)	66.6(1)/67.4(1)/70.7(1)	75.5/77.6/82.0	69.0/72.2/78.7	73.1/76.3/82.7	72.8/75.3/80.2	68.6/71.7/77.9	73.8/76.1/80.8	68.6/71.7/77.9
Operation mode					Heat exchange mode, bypass mode, fresh-up mode								
Heat exchange system					Air to air cross flow total heat (sensible + latent heat) exchange								
Heat exchange element					Specially processed non-flammable paper								
Dimensions	Unit	HeightxWidthxDepth		mm	285x776x525		301x1,113x886		368x1,354x920	368x1,354x1,172		731x1,354x1,172	
Weight	Unit			kg	24.0		46.5		61.5	79.0		157	
Casing	Material				Galvanised steel plate								
Fan	Air flow rate - 50Hz	Heat exchange mode	Ultra high/High/Low	m^3/h	150/140/105	250/230/155	350(1)/300(1)/200(1)	500(1)/425(1)/275(1)	650(1)/550(1)/350(1)	800(1)/680(1)/440(1)	1,000(1)/850(1)/550(1)	1,500(1)/1,275(1)/825(1)	2,000(1)/1,700(1)/1,100(1)
		Bypass mode	Ultra high/High/Low	m^3/h	150/140/105	250/230/155	350(1)/300(1)/200(1)	500(1)/425(1)/275(1)	650(1)/550(1)/350(1)	800(1)/680(1)/440(1)	1,000(1)/850(1)/550(1)	1,500(1)/1,275(1)/825(1)	2,000(1)/1,700(1)/1,100(1)
	External static pressure - 50Hz	Ultra high/High/Low		Pa	90/87/40	70/63/25	90(1)/70.0/50.0(1)						
Air filter	Type				Multidirectional fibrous fleeces		Multidirectional fibrous fleeces (G3)						
Sound pressure level - 50Hz	Heat exchange mode	Ultra high/High/Low		dBA	27.0/26.0/20.5	28.0/26.0/21.0	34.5(1)/32.0(1)/29.0(1)	37.5(1)/35.0(1)/30.5(1)	39.0(1)/36.0(1)/31.0(1)	39.0(1)/36.0(1)/30.5(1)	42.0(1)/38.5(1)/32.5(1)	42.0(1)/39.0(1)/33.5(1)	45.0(1)/41.5(1)/36.0(1)
	Bypass mode	Ultra high/High/Low		dBA	27.0/26.5/20.5	28.0/27.0/21.0	34.5(1)/32.0(1)/28.0(1)	38.0(1)/35.0(1)/29.5(1)	38.0(1)/34.5(1)/30.5(1)	40.0(1)/36.5(1)/30.5(1)	42.5(1)/40.0(1)/32.5(1)	42.0(1)/39.0(1)/32.5(1)	45.0(1)/41.0(1)/35.0(1)
Operation range	Around unit			°CDB	-		0°C~40°CDB, 80% RH or less						
Connection duct diameter				mm	100	150	200		250			2x250	
Power supply	Phase/Frequency/Voltage			Hz/V	1~; 50/60; 220-240/220								
Current	Maximum fuse amps (MFA)			A	15.0		16.0						
Specific energy consumption (SEC)	Cold climate			kWh/(m^2.a)	-56.0(5)	-60.5(5)	-						
	Average climate			kWh/(m^2.a)	-22.1(5)	-27.0(5)	-						
	Warm climate			kWh/(m^2.a)	-0.100(5)	-5.30(5)	-						
SEC class					D / See note 5	B / See note 5	-						
Maximum flow rate at 100 Pa ESP	Flow rate			m^3/h	130	207	-						
	Electric power input			W	129	160	-						
Sound power level (Lwa)				dB	40	43	51	54	58		61	62	65
Annual electricity consumption				kWh/a	18.9(5)	13.6(5)	-						
Annual heating saved	Cold climate			kWh/a	41.0(5)	40.6(5)	-						
	Average climate			kWh/a	80.2(5)	79.4(5)	-						
	Warm climate			kWh/a	18.5(5)	18.4(5)	-						

(1)Measured according to JIS B 8628 | (2)Measured at reference flow rate according to EN13141-7 | (5) At reference flow rate in accordance with commission regulation (EU) No 1254/2014

Electrical heater for VAM

- Total solution for fresh air with Daikin supply of both VAM and electrical heaters
- Increased comfort in low outdoor temperature thanks to the heated outdoor air
- Integrated electrical heater concept (no additional accessories required)
- Standard dual flow and temperature sensor
- Flexible setting with adjustable setpoint
- Increased safety with 2 cut-outs: manual & automatic



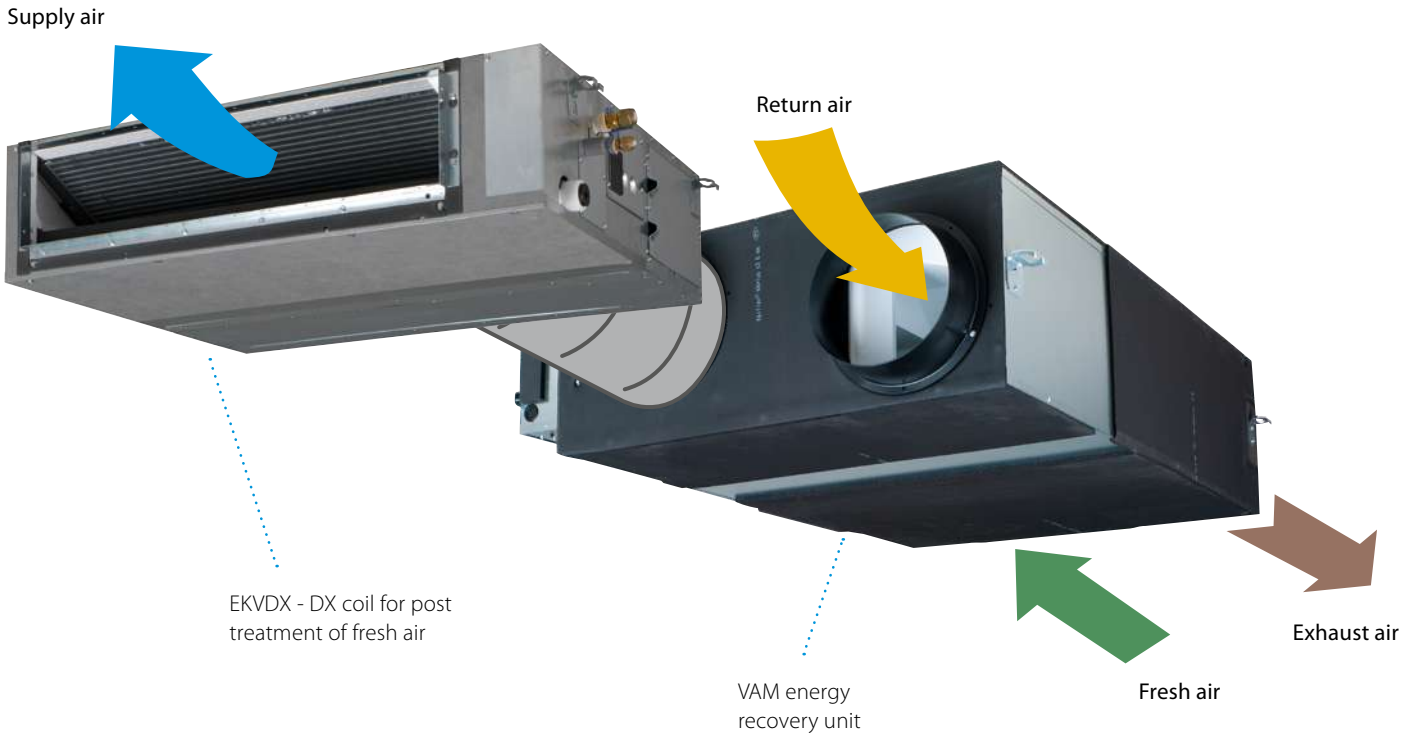
GSIEKA

	GSIEKA	10009	15018	20024	25030	35530[1]
Capacity	kW	0.9	1.8	2.4	3.0	3.0
Duct diameter	mm	100	150	200	250	355
Connectable VAM		VAM150FC9	VAM250FC9	VAM350,500J8	VAM650J8, VAM800J8, VAM1000J8	VAM1500J8, VAM2000J8

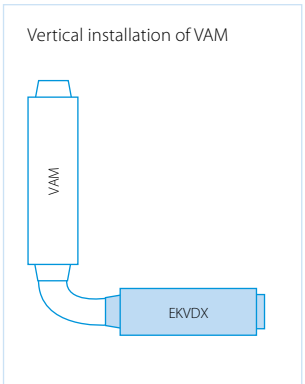
				GSIEKA10009	GSIEKA15018	GSIEKA20024	GSIEKA25030	GSIEKA35530
Dimensions		Height	mm	171	221	271	321	426
		Depth	mm	100	150	200	250	355
		Width	mm	370	370	370	370	373
Minimum air velocity / airflow			m/s	1.5				
			m^3/h	45	100	170	265	535
Power supply				1~230 VAC/50Hz				
Nominal current			A	4.1	8.2	10.9	13.1	13.1
Heating power			kW	0.9	1.8	2.4	3.0	3.0
Connection duct diameter			mm	100	150	200	250	355
Operation range		Min.	°C	-40°C				
		Max.	°C	40°C				
		Rel. Humidity	%	90%				
Temperature sensor				10 kΩ at +25°C / TJ-K10K				
Temperature sensor range				- 30°C to 105°C				
Temperature set point range				- 10°C to 50°C				
LED indicators	LED 1	flashing every 5 seconds		heater is starting up				
		flashing every second		air flow detected, heating allowed				
		OFF		no power supply or no flow				
		ON		problem with duct temperature sensor, set point potentiometer or PTC airflow sensor				
	LED 2	OFF		heater is not operating				
		ON		heater is operating				
Ambient temperature adjacent to controller				0°C to +50°C				
Auto high temperature cut-out				50°C				
Manual reset high temperature cut-out				100°C				

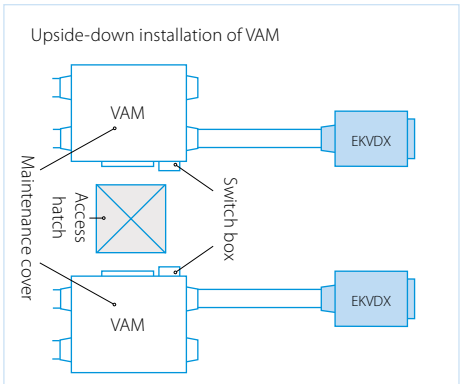
EKVDX-A

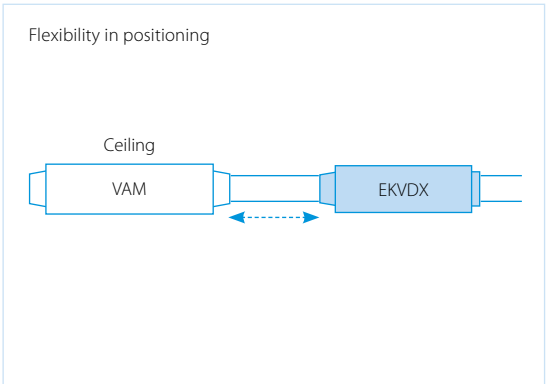
DX coil for post treatment of fresh air



- Creates a high quality indoor environment by pre conditioning of incoming fresh air
- Maximum installation flexibility thanks to separate DX coil
- Different installation possibilities to suit the application







- Fresh air flows from 500 up to 2,000 m^3/h
- High ESP up to 150 Pa
- Can be integrated in both R-32/R-410A VRV systems
- Replaces VKM-GB range, delivering increased capacity range and reduced sound levels

DX coil for air processing

Post heating or cooling of fresh air to lower the load on the air conditioning system

- Creates a high quality indoor environment by pre conditioning of incoming fresh air
- Maximum installation flexibility thanks to separate DX coil
- Wide range of units covering fresh air flows of 500 up to 2,000 m^3/h
- High ESP up to 150 Pa
- Can be integrated in both R-32/R-410A VRV systems



EKVDX50A

EKVDX-A

					EKVDX32A	EKVDX50A	EKVDX80A	EKVDX100A
Power input - 50Hz	Cooling	Nom.		kW	0.035	0.035	0.035	0.035
	Heating	Nom.		kW	0.035	0.035	0.035	0.035
Casing	Material				Galvanised steel plate			
Insulation material					Opcell and anti-sweat material			
Dimensions	Unit	Height		mm	250			
		Width		mm	550	700	1,000	1,400
		Depth		mm	809			
Weight	Unit			kg	19	23.4	30.1	37.7
Operation range	Around unit			°CDB	10°C~40°CDB, 80% RH or less			
	On coil temperature	Cooling	Max.	°CDB	35			
		Heating	Min.	°CDB	11			
Piping connections	Liquid	OD		mm	6.35			
	Gas	OD		mm	12.7			
	Drain				VP20 (I.D. 20/O.D. 26), drain height 625 mm			
Refrigerant	Type				R410A/R32			
	GWP				2,087.5/675			
Heat exchange system					Direct expansion			
Power supply	Phase				single phase			
	Frequency			Hz	50/60			
	Voltage			V	220-240/220			

Possible Combination VAMJ8 + EKDVX					EKVDX32A + VAM500J8	EKVDX50A + VAM650J8	EKVDX50A + VAM800J8	EKVDX80A + VAM1000J8	EKVDX100A + VAM1500J8	EKVDX100A + VAM2000J8
Cooling capacity	Total (VAM+DX coil)		At ultra high fan speed	kW	5.1	7.1	8.6	9.3	15.4	18.4
	DX coil		At ultra high fan speed	kW	3.4	4.8	5.5	5.7	9.5	11.2
			At high fan speed	kW	2.7	4.1	4.4	4.5	8.8	9.2
Heating capacity	Total (VAM+DX coil)		At ultra high fan speed	kW	6.7	8.5	11	11.9	18.7	22.9
	DX coil		At ultra high fan speed	kW	4.2	5.1	6.9	7	10.8	13
			At high fan speed	kW	3.6	4.6	5.8	6.3	9.6	11.7
Fan	Air flow rate - 50Hz	Heat exchange mode	Ultra high	m^3/h	500	650	800	1,000	1,500	2,000
			High	m^3/h	425	550	680	850	1,275	1,700
		Bypass mode	Ultra high	m^3/h	500	650	800	1,000	1,500	2,000
			High	m^3/h	425	550	680	850	1,275	1,700
	External static pressure - 50Hz	Maximum		Pa	81.9	73.0	133.7	106.0	153.6	92.1
		Ultra high		Pa	51.9	43.0	23.7	26.0	43.6	12.1
		High		Pa	39.0	33.9	19.4	21.4	35.1	11.9
Sound pressure level - 50Hz	Cooling		Ultra high	dBA	32	34	35.5	40.5	38.5	43.5
			High	dBA	30.5	32	34	38	37	40
	Heating		Ultra high	dBA	32.5	34.5	36	40.5	39	44
			High	dBA	31.5	32	34	38.5	37	40.5
Current	Maximum fuse amps (MFA)			A	6	6	6	6	16	16

The heat reclaim ventilation unit and the EKVDX indoor unit MUST share the same electrical safety devices and power supply

Energy recovery ventilation, humidification and air processing



VKM80-100GBM

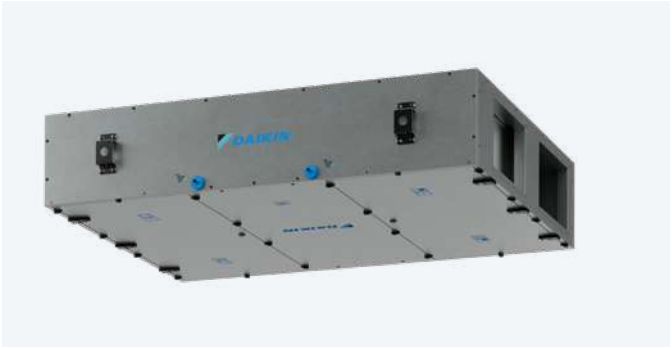
Post heating or cooling of fresh air for lower load on the air conditioning system

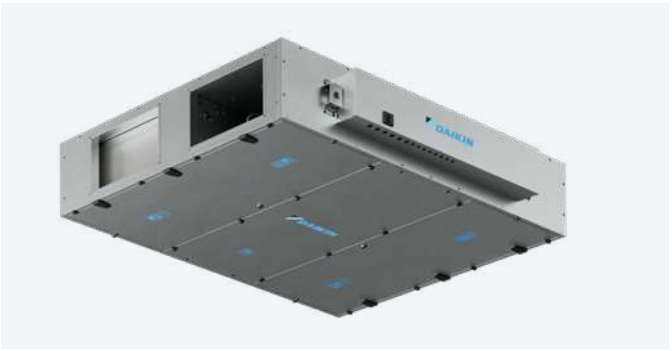
- Energy saving ventilation using indoor heating, cooling and moisture recovery
- Creates a high quality indoor environment by pre conditioning of incoming fresh air
- Humidification of the fresh air results in comfortable indoor humidity level, even during heating
- Free cooling possible when outdoor temperature is below indoor temperature (eg. during nighttime)
- Low energy consumption thanks to DC fan motor
- Prevent energy losses from over-ventilation while improving indoor air quality with optional CO_2 sensor
- Shorter installation time thanks to easy adjustment of nominal air flow rate, so less need for dampers compared with traditional installation
- Specially developed heat exchange element with High Efficiency Paper (HEP)
- Can operate in over- and under pressure

VKM-GBM

Ventilation				VKM-GBM	50GBM	80GBM	100GBM
Power input - 50Hz	Heat exchange mode	Nom.	Ultra high/ High/Low	kW	0.270/0.230/0.170	0.330/0.280/0.192	0.410/0.365/0.230
	Bypass mode	Nom.	Ultra high/ High/Low	kW	0.270/0.230/0.170	0.330/0.280/0.192	0.410/0.365/0.230
Fresh air conditioning load	Cooling			kW	4.71/1.91/3.5	7.46/2.96/5.6	9.12/3.52/7.0
	Heating			kW	5.58/2.38/3.5	8.79/3.79/5.6	10.69/4.39/7.0
Temperature exchange efficiency - 50Hz	Ultra high/High/Low			%	76/76/77.5	78/78/79	74/74/76.5
Enthalpy exchange efficiency - 50Hz	Cooling	Ultra high/High/Low		%	64/64/67	66/66/68	62/62/66
	Heating	Ultra high/High/Low		%	67/67/69	71/71/73	65/65/69
Operation mode					Heat exchange mode / Bypass mode / Fresh-up mode		
Heat exchange system					Air to air cross flow total heat (sensible + latent heat) exchange		
Heat exchange element					Specially processed non-flammable paper		
Humidifier	System				Natural evaporating type		
Dimensions	Unit	HeightxWidthxDepth		mm	387x1,764x832	387x1,764x1,214	
Weight	Unit			kg	100	119	123
Casing	Material				Galvanised steel plate		
Fan-Air flow rate - 50Hz	Heat exchange mode	Ultra high/High/Low		m^3/h	500/500/440	750/750/640	950/950/820
	Bypass mode	Ultra high/High/Low		m^3/h	500/500/440	750/750/640	950/950/820
Fan-External static pressure - 50Hz	Ultra high/High/Low			Pa	200/150/120	205/155/105	110/70/60
Air filter	Type				Multidirectional fibrous fleeces		
Sound pressure level - 50Hz	Heat exchange mode	Ultra high/High/Low		dBA	38/36/34	40/37.5/35.5	40/38/35.5
	Bypass mode	Ultra high/High/Low		dBA	39/36/34.5	41/38/36	41/39/35.5
Operation range	Around unit			°CDB	0°C~40°CDB, 80% RH or less		
	Supply air			°CDB	-15°C~40°CDB, 80% RH or less		
	Return air			°CDB	0°C~40°CDB, 80% RH or less		
	On coil temperature	Cooling/Max./Heating/Min.		°CDB	-15/43		
Refrigerant	Control				Electronic expansion valve		
	Type				R-410A		
	GWP				2,087.5		
Connection duct diameter				mm	200	250	
Piping connections	Liquid	OD		mm	6.35		
	Gas	OD		mm	12.7		
	Water supply			mm	6.4		
	Drain				PT3/4 external thread		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240		
Current	Maximum fuse amps (MFA)			A	15		

Compact L Smart





Premium efficiency heat recovery unit

Highlights

- Connects Plug&Play into the Sky Air and VRV control network
- Easy installation and commissioning
- Internal pre-filter stage (up to ePM1 50% (F7) + ePM1 80% (F9)) making the unit reach highest indoor air quality requirements.
- Wide air flow coverage from 150m³/h to 4,000m³/h
- Exceeding ErP 2018 requirements
- Best choice when compactness is needed (only 280 mm height up to 550 m³/h)
- 50 mm double skin panel for a maximum sound and thermal insulation

EC centrifugal fan

- Maximum ESP available 600 Pa (depending on model sizes and airflow)
- Inverter driven with IE4 premium efficiency motor
- High-efficient blade profiling
- Reduced energy consumption
- Optimized SFP (Specific Fan Power) for an efficient unit operation

Heat exchanger

- Premium quality counter flow plate heat exchanger
- Up to 91% of the thermal energy recovered
- High grade aluminum allowing optimum corrosion protection

For integration with Applied systems, please refer to the Compact L, in the AHU chapter

D-AHU Compact L Smart			ALB02*C* (1)	ALB03*C*	ALB04*C*	ALB05*C*	ALB06*C*	ALB07*C*
Airflow	Nominal	m³/h	300	600	1,200	1,500	2,500	3,000
Electrical supply	Phase	ph	1					
	Frequency	Hz	50/60					
	Voltage	V	220/240					
	Ampere	A	16					
Main unit dimensions	Width	mm	920	1,100	1,600		2,000	
	Height	mm	280	350	415		500	
	Length	mm	1,660	1,800	2,000			
Weight unit	Net weight	kg	115	170	255	265	310	320
	Gross weight	kg	125	180	270	280	325	335
Duct dimensions		mm	250	400	500	500	700	700
		mm	150	200	300	300	400	400

(1) ALB02*C* refers to all configuration available for Compact L size 02 (Smart or Pro version and right or left handing)

Please refer to Databook or Astra selection software for more details.

Electrical heater for Compact L Smart

- Total solution for fresh air with Daikin supply of both Compact L Smart and electrical heaters
- Increase comfort in low outdoor temperature thanks to the heated outdoor air
- Integrated electrical heater concept (no additional accessories required)
- Standard dual flow and temperature sensor
- Heater only consumes what is required to pre-heat to the desired minimum fresh air temperature; thus saving energy



ALD-HEFB

Electrical heater for Compact L Smart (ALD)	02HEFB	03HEFB	05HEFB	07HEFB
Capacity kW	1.5	3	7.5	15
Connectable Compact L Smart size	02	03	04, 05	06, 07
Supply voltage	230V,1ph		400V,3ph	
Output current (maximum) (A)	6.6	13.1	10.9	21.7
Temperature sensor	15k ohms at -20 °C 10k ohms at +10 °C	16k ohms at -20 °C 10k ohms at +10 °C	17k ohms at -20 °C 10k ohms at +10 °C	18k ohms at -20 °C 10k ohms at +10 °C
Temperature control range	- 20 °C to 10 °C			
Control fuse	Mini Circuit Breaker 6 A			
LED indicators	Yellow = Airflow fault Red = Heat ON			
Mounting holes	Depends on duct size			
Maximum ambient adjacent to terminal box	30°C (during operation)			
Auto high temperature cutout	75°C Pre-set			
Manual reset high temperature cutout	120°C Pre-set			
Width (mm)	470	620	720	920
Depth (mm)	370	370	370	370
Height (mm)	193	243	343	443

Compact T Smart

Top connected Air Handling Unit

Highlights

- Duct connections are located at the top, reducing the unit's footprint
- Low power consumption and low SFP (Specific Fan Power) for a very efficient unit operation
- Superior IAQ level: up to three stage filtration on supply side (more than the 90% of PM1 is removed from outdoor air)
- Plug&Play control solution, for a quick and easy start-up
- Very compact unit, starting from 550 mm width, for an air flow up to 1,100 m^3/h



ATB-S

IAQ matters

An excellent IAQ improves people's performance and well-being, and decreases risk factors for various diseases. Compact T satisfies the ventilation and filtration needs of the indoor environment, guaranteeing an outstanding level of IAQ.

The future of ventilation

The Compact T, with its unique features, represents the latest product developed by Daikin for fresh air treatment and not only. Thanks to its optimized design, it can be easily transported and installed into new projects or existing buildings.

D-AHU Compact T Smart			ATB03*B* (1)	ATB04*B*	ATB05*B*	ATB06*B*	ATB07*B*
Airflow	Nominal	m^3/h	800	1,650	2,300	2,700	3,900
Electrical supply	Phase	ph	1				
	Frequency	Hz	50				
	Voltage	V	230				
	Max internal fuse	A	16				
Main unit dimensions	Width	mm	550		790		890
	Height	mm	1,600		1,900	1,850	2,050
	Length (2)	mm	1,580	1,650	2,170	2,620	2,950
Duct dimensions		mm	250	315	355	400	500
Weight unit	Net weight	kg	185	230	370	475	580
	Gross weight	kg	195	240	390	505	610

(1) ATB03*B* refers to all configuration available for Compact T size 03 (Smart or Pro version and right or left handing)
(2) Size 05 is provided in two sections while Size 06 and 07 are provided in three sections.

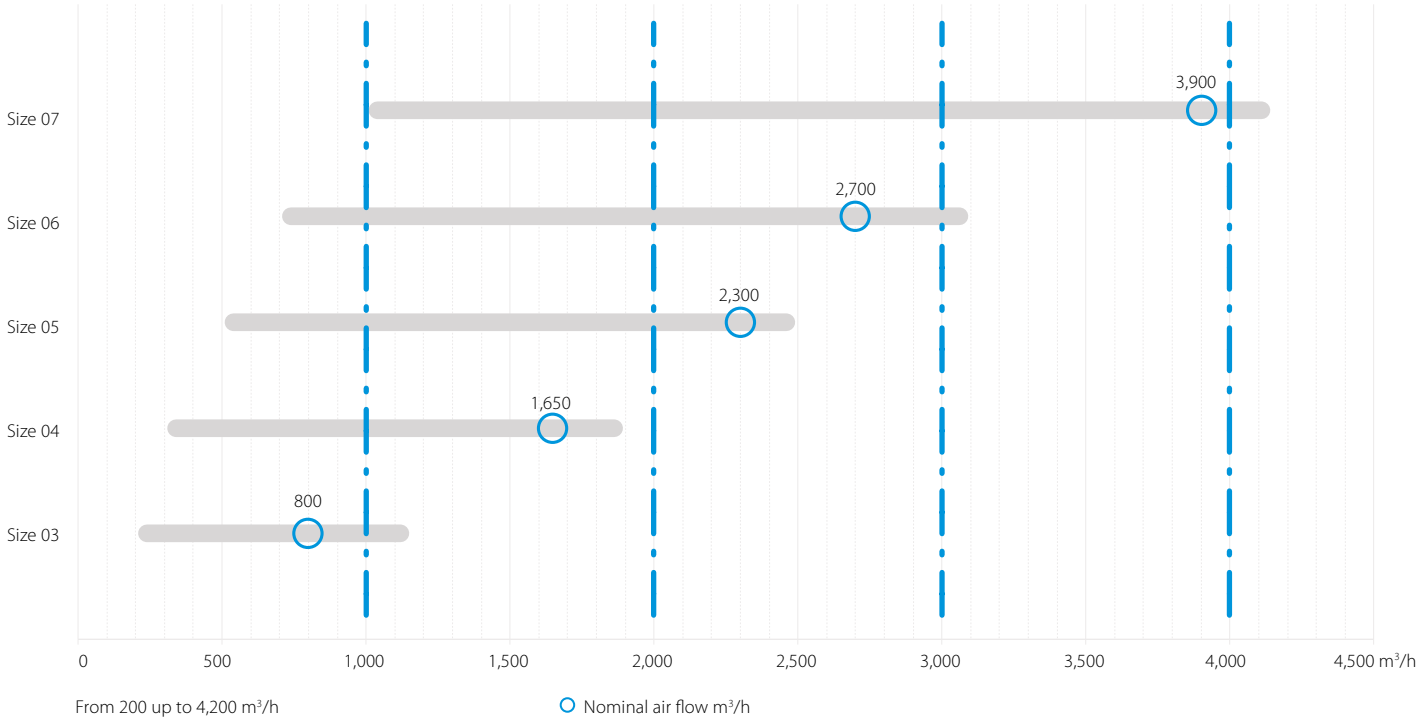
Please refer to Databook or Astra selection software for more details.

Air flow range

Compact T is available in 5 sizes covering a wide range of applications such as hotels, offices, schools, gyms and light commercial buildings.

Sectioning

To ensure an easy and quick installation Compact T size 05 will be provided in two sections, while size 06 and 07 in three sections to pass smoothly through standard doors[1].

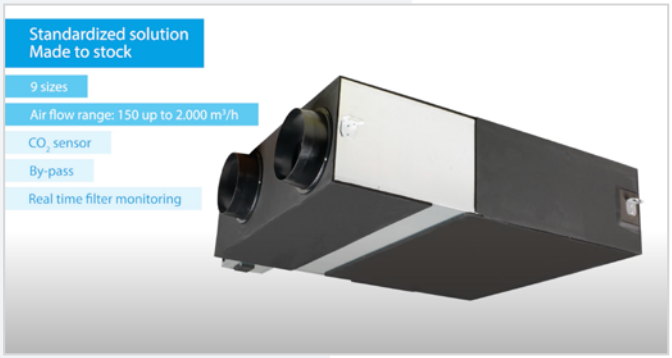


1. Please refer to technical data table for more details



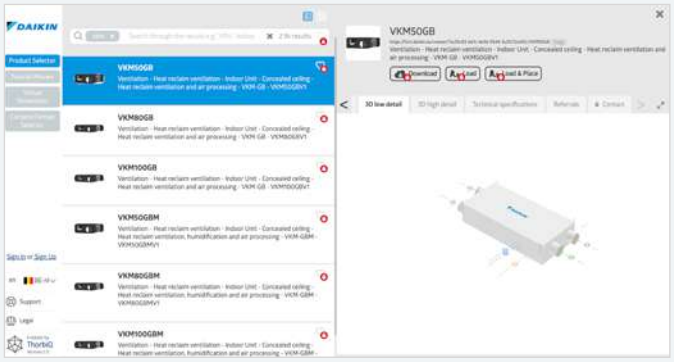
Marketing tools

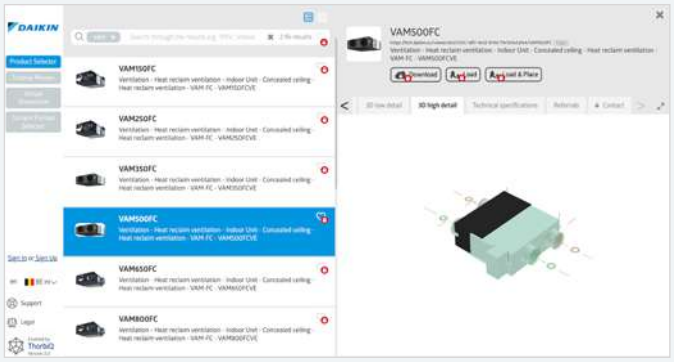
- Watch the explanation of VAM range, its USPs from our Indoor Air Quality Seminar **www.youtube.com/daikineurope**
- Watch the Compact T promotional video: www.youtube.com/daikineurope
- Download our brochure on Commercial Ventilation from **my.daikin.eu**
- Get access to our selection tool **bim.daikin.eu** to find your ventilation unit in a few click.
- Consult the "Argue Card" document to support in promoting
- the Compact L and Compact T range (available on request)



BIM models

- Get the VAM, Compact L and T BIM tools on **bim.daikin.eu**





Benefits for the installer

Plug and play design

- Pre-programmed and factory-tested controls for an easier and fast commissioning
- Lightweight, low height and small footprint units
- Easy access for servicing

Benefits for the consultant

Quick selection tool

- In-house developed web software with improved user interface and preset parameters ensure that you can always find the optimum and most energy efficient product for your application
- Interconnection with other product groups (e.g. automatic introduction of ventilation selection into a VRV Web Xpress selection)
- Extremely flexible design

BIM models

- BIM models are available and can be downloaded with just a few clicks

Benefits for the end user

Best comfort

- Wide range of units to control fresh air and humidity
- Wide range of optional filters to suit the application available up to ePM1 80% (F9)
- Special paper heat exchanger recovers heat and moisture from extract air to warm up and humidify fresh air to comfortable levels (VAM, VKM)

Easy control and visualization

- Wide and easy functionality with the use of Madoka remote controllers
- Possibility to visualize the CO_2 concentration (with combination of VAM-J8 unit/BRYMA sensor/Madoka remote controller)

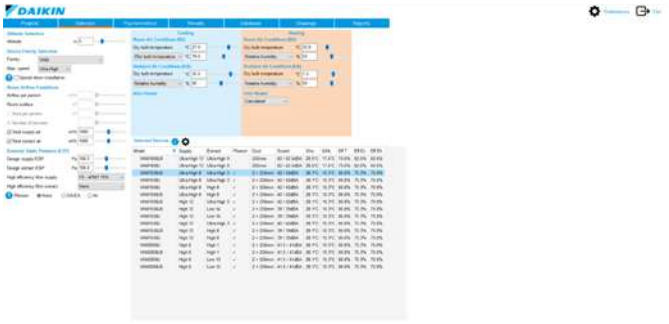
Supporting tools, software and apps

Web based selection tools dedicated to the Daikin ventilation portfolio

Ventilation Web Xpress

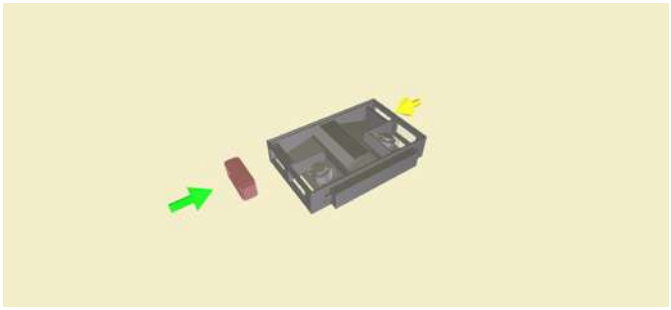
Selection tool for ventilation devices (VAM (+EKVDX) and VKM). The selection is based on given supply/extract airflows (including fresh up and given ESP of supply/extract ducting:

- Easy calculation of fresh air per person or per area
- Visualisation of psychrometric chart
- Visualisation of selected configuration
- Required field settings mentioned in the report



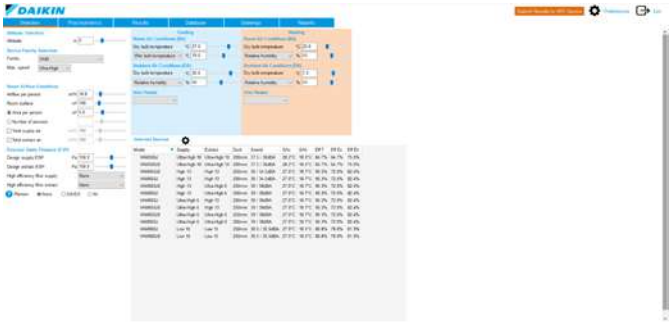
ASTRA Web

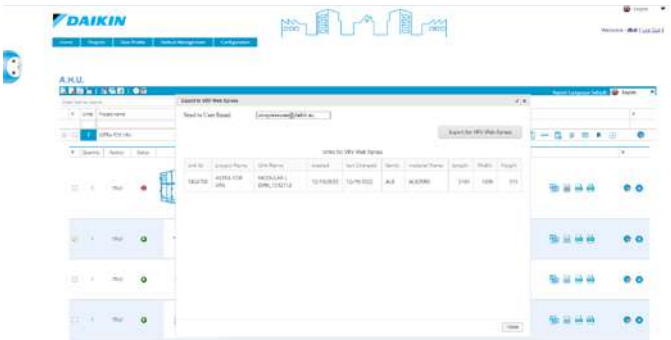
- Quick Compact L/T selection that will save you precious time, drastically reducing selection time through the ASTRA software interface.
- Very competitive solution available within the Wizard thanks to pre-uploaded parameters.
- High selection quality, thanks to the intelligence embedded within the software core.

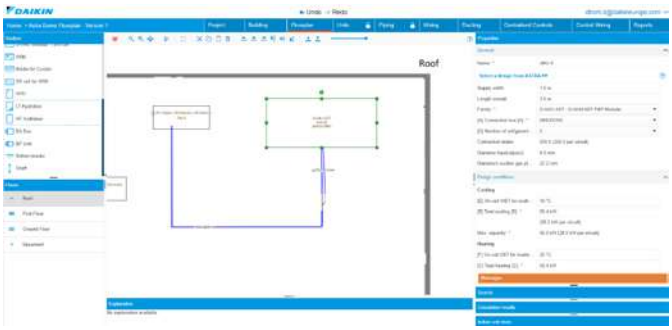


VRV Xpress integrates seamlessly with our ventilation selection software

- The ventilation selection meant for a VRV project can be initiated directly from VRV Web Xpress.
- The selected ventilation products -either on Ventilation Web Xpress or ASTRA- can be introduced into the VRV selection on VRV Web Xpress.
- Integration of ventilation selection into 2D Floorplan.







https://my.daikin.eu/denv/en_US/home/sales/ventilation-software.html

Daikin air handling units



Why choose Daikin air handling units?

- Maximum energy efficiency and indoor air quality
- Wide range of functions and options
- **High quality** components
- **Innovative** technology: Unique features and state of the art technology for short payback
- Operation **efficiency** and **energy savings**
- Outstanding **reliability** and **performance**
- Various applications are possible including air conditioning applications, industry-type process cooling, and large-scale district heat source systems
- Plug and play concept for easy installation and commissioning
- Unique Daikin fresh air package available for connection of AHU to VRV or ERA

Certifications

- Eurovent certified performances
- Exceeding 2018 ErP – ECODESIGN requirements
- Certified according to the Hygiene Directive VDI 6022 (Professional ranges)
- Certified according to the Hygiene Directive DIN 1946 (Professional range)
- RLT certified performances

The unique quality of Daikin AHU is accomplished by:

Panels

- Inner and outer panels available in different materials (pre-painted, aluminium, stainless steel, etc.) to meet all project specifications

Gasket

- Liquid gasket technology drastically reduces unit air leakage

Frame

- All anodized aluminium which has the highest corrosion resistance compared to natural aluminium
- Unique Daikin thermal break (35 mm or 27 mm thermal break). Polyamide bars design to enhance thermal break unit performances
- Distinctive Section to section thermal break profile to ensure thermal break design on the whole unit
- Rounded profile for increased ease of cleaning

IAQ

- Flush internal surface and rounded corner flush surface to avoid the retention of dirt and to be easily cleanable
- Wide filtration possibility to reduce pollution

Plug & Play Controls

- Pre-commissioned and Factory-tested control for quicker on site commissioning
- Sole manufacturer to provide a complete AHU DX solution from a single manufacturer available for connection of AHU to VRV or ERA (everything factory-mounted)



D-AHU MODULAR R

Pre configured unit with side connection and rotary heat exchanger (sensible or sorption)



D-AHU MODULAR P

Pre configured unit with side connection and aluminium counter flow plate heat exchanger



D-AHU PROFESSIONAL

Fully customize solution to meet all projects demand

For more information on Modular R/P and Professional please refer to the Air Handling Unit section

Why use DX outdoor units with Air Handling Units?



High comfort levels

- Rapid response of supply air temperature to changing loads, results in a steady indoor temperature
- VRV offers the ultimate comfort thanks to continuous heating, also during defrost

Low carbon footprint and operating costs

- DX heat pumps are highly efficient inverter units using a lower GWP refrigerant
- By integrating a VRV heat recovery system, excess heat from rooms in cooling can be reused to heat up incoming fresh air

Easy design, all components integrated

- A DX system is an all-in-one system, no boilers, tanks or pumps are needed reducing the total investment cost

One-stop shop, Daikin's fresh air package

- A plug & play package with a Daikin DX outdoor unit and Daikin Air Handling Unit
- One point of contact for the design, installation and commissioning, streamlining the process

Total solution operation example



Daikin Air Handling Unit kits for connection to DX outdoor units

R-32

NEW Expansion valve kits

- **3 new capacities** (300, 350, 400) offer a complete range of expansion valve kits **from 5 to 69.3kW**
- **Improved flexibility** thanks to combination ratio from 65% up to 110%
- Unified range connectable both to **R-32 and R-410A** systems
- Can be used in the most **extreme outdoor conditions**, down to -20°C
- F**ully compliant to IEC60335-2-40**, thanks to Shîrudo Technology



Extended operation range
-20°CWB > 52°CDB

NEW Control box

- Complete offer of **5 control possibilities**
- Daikin **integrated** or **third-party controller**
- Control of return air or fresh air supply temperature
- All **control methods** unified in **one box**
- Hinged door for **easy servicing**



Expansion valve set (EKEXVA*)

- Controls the refrigerant flow in the AHU DX coil
- Fully brazed and wired in case of a Daikin AHU



Control box (EKEACB)

- Controls the expansion valve set and outdoor unit(s) capacity
- Mounted and wired in case of a Daikin AHU



Specifications



EKEXVA – Expansion valve kit

Ventilation	EKEXVA				50	63	80	100	120	140	200	250	300	350	400	450	500
Dimensions	Unit			mm	404x217x80.5												
Weight	Unit			kg	2.9												
Operation range	On coil temperature	Heating	Min.	°CDB	10.0												
		Cooling	Max.	°CDB	35.0												
Ambient installation conditions	Min.			°CDB	-20.0												
	Max			°CDB	52.0												
Sound pressure level	Cooling	Nom.		dBA	36.5	37.5	38.6	39.5	40.5	41.1	42.5	43.5	44.3	45.1	45.6	46.1	46.5
	Nom.			dBA	24.8	25.8	26.8	27.8	28.8	29.4	30.8	31.8	32.5	33.3	33.8	34.3	34.8
Refrigerant	Type / GWP				R-32 / 675 R-410A / 2,087.5												
Piping connections	Liquid	Type		mm	Braze connection (only liquid line connected)												
		OD		mm		6.35			9.52				12.7				



EKEACB – Control box

			EKEACB
Layout			Pair | Multi | Mix
Dimensions	Unit	mm	300x400x150
Weight	Unit	kg	5.1
Ambient installation conditions	Min	°CDB	-20
	Max	°CDB	52
Power supply	Phase		1~
	Frequency	Hz	50/60
	Voltage	V	220-240/220

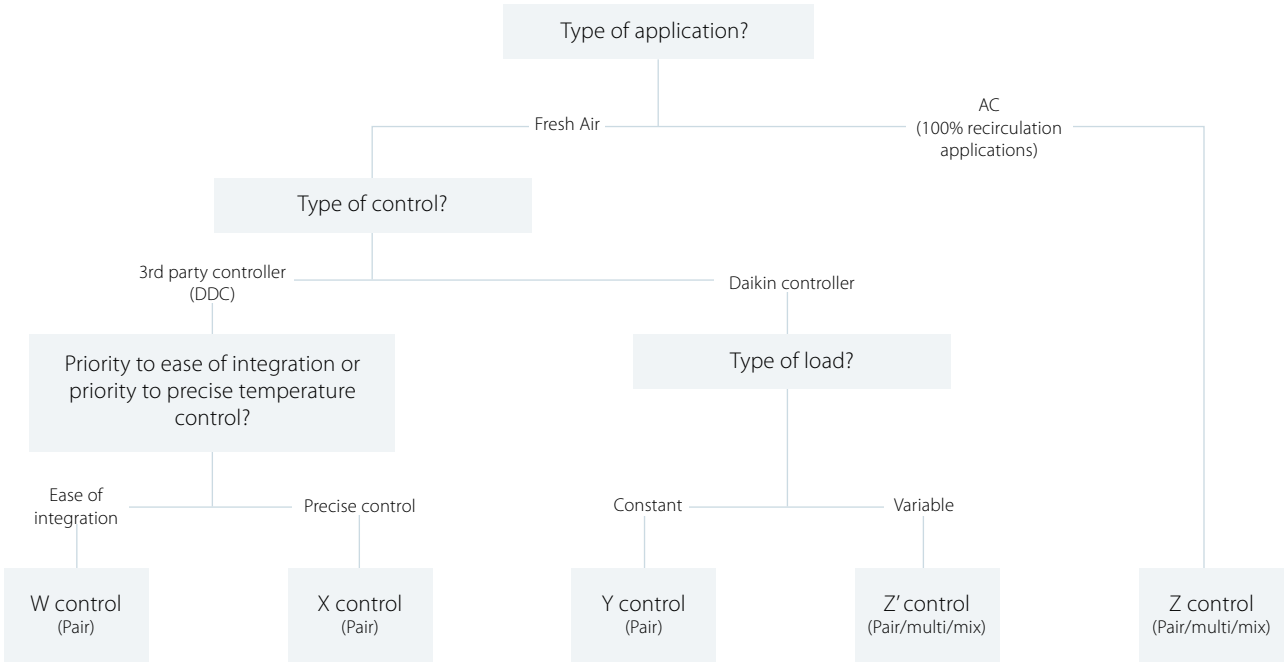
Click for more information on **EKEACB** or **EKEXVA** outdoor units

Air Handling Unit kits

Control possibilities

Every application is different. Is there a constant load or not, how to control your temperature and which controls are available? **With our complete offering of 5 control possibilities**, anything is possible.

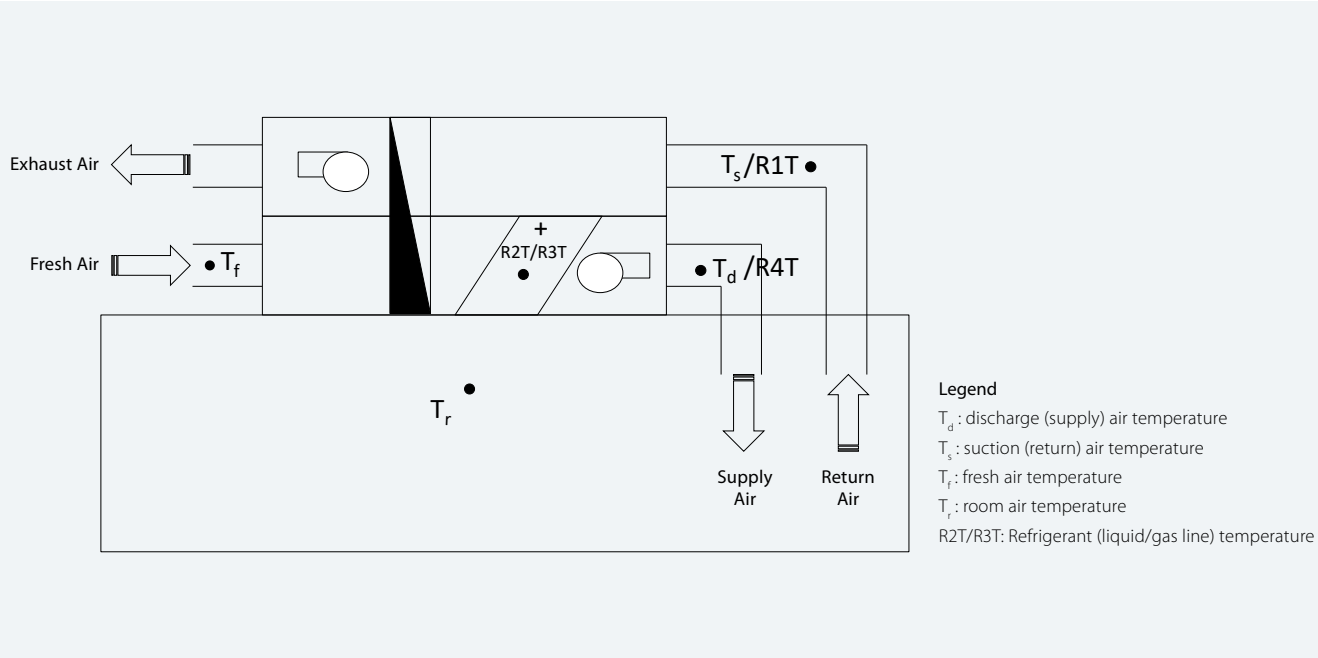
Flow chart to select your control type



Control type benefits	Sensor Used	Controller
W control – control of supply or return air temperature ▪ **Responds to load variation** (capacity is changed as a function of measured temperature, but slower than X- control) ▪ **Air temperature control** ▪ **Easy to integrate, as no additional programming** is needed for most standard AHU controllers	**Td, Ts/f or Tr** (field supplied)	External controller (DDC) using a proportional 0~10 V signal for capacity control **(5 steps)**
X control – control of supply or return air temperature ▪ **Fastest response to load variation** (capacity is immediately changed as a function of measured temperature) ▪ **Precise air temperature control** ▪ **Ideal for comfort sensitive applications.** This is also used **by default** in Daikin AHU controls	**Td, Ts/f or Tr** (field supplied)	External controller (DDC) using a proportional 0~10 V signal for capacity control **(Stepless)**
Y control – control of evaporating/condensing temperature ▪ **Cost effective and simple solution**, no additional DDC controller required ▪ **Fixed evaporating/condensing temperature**, no direct temperature control ▪ **Ideal for applications with a constant cooling/heating load**	**R2T/R3T** (Daikin supplied)	**3rd party thermostat** (Daikin controller for field settings)



Sensors used



Control type benefits	Sensor Used	Controller
Z' control – control of supply air temperature ▪ **Cost efficient and simple** solution, no additional DDC controller required ▪ You can **combine VRV indoor units and AHUs** in one system or connect **several AHUs to 1 outdoor unit** ▪ **Ideal for pre-conditioning of fresh air** via Td temperature control ▪ Less accurate room temperature control compared to X/W/Z control	R4T Daikin supplied)	Daikin controller (set point can be set via field setting)
Z control – return air temperature control ▪ Cost **efficient and simple solution**, no additional DDC controller required ▪ You **can combine VRV indoor units** and AHUs in one system or connect **several AHUs to 1 outdoor unit** ▪ **Ideal for AHU's that operate at 100% recirculation** like indoor units or if no particular supply temperature required ▪ **No supply temperature control**	R1T (Daikin supplied)	Daikin controller (set point can be set via remocon or via C1C2)

Air Handling Unit kits

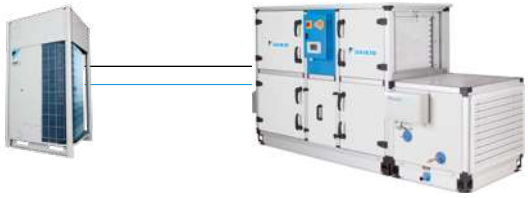
Layout possibilities

With our wide capacity range and different control options, a variety of layout possibilities to match your application:

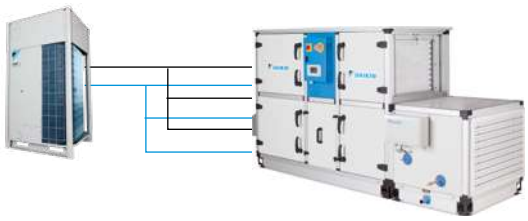
- **Pair layout:** one or more outdoor units combined with 1 air handling unit
- **Multi layout:** one outdoor unit combined with multiple air handling units
- **Mix layout:** one outdoor unit combined with an air handling unit AND indoor units

Pair layout

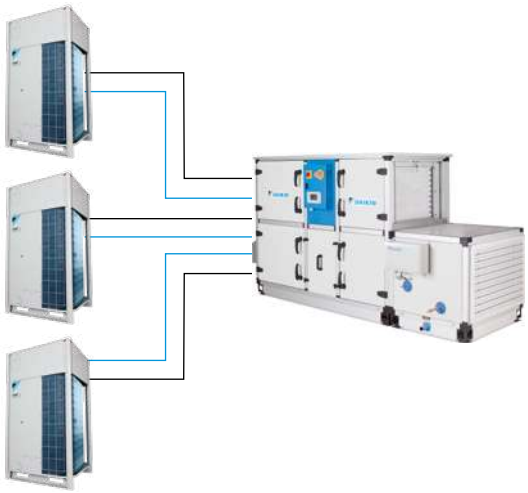
One ERA or VRV heat pump (system) connected to one AHU through one refrigerant circuit
- with W, X, Y, Z, Z' control
- not allowed for VRV H/R



One VRV heat pump (system) connected to the interlaced coil of one AHU through several refrigerant circuits
- with W, X, Y control
- not allowed for VRV H/R and VRV-i

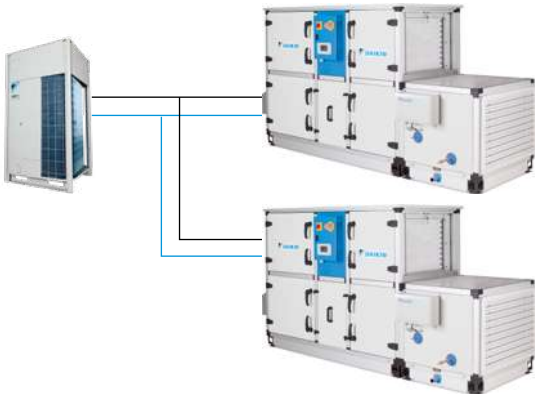


Several ERA or VRV heat pumps connected to the interlaced coil of one AHU through several refrigerant circuits
- with W, X, Y control
- not allowed for VRV H/R and VRV-i



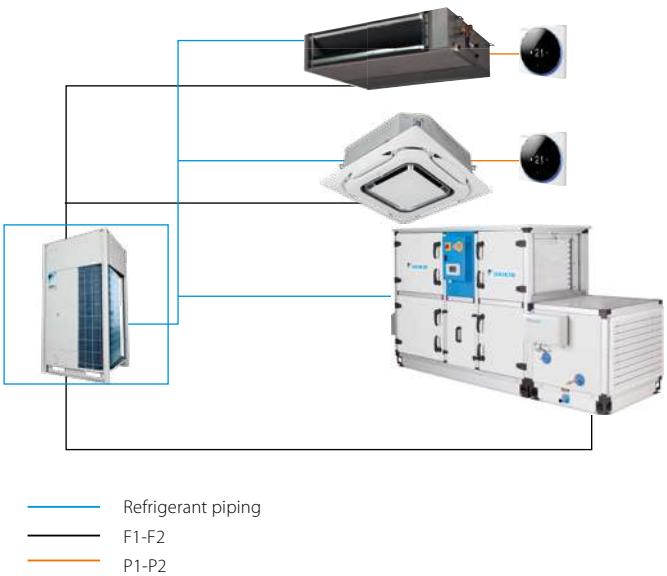
Multi layout

One VRV heat pump connected to several AHUs
- with Z, Z' control and field supplied controls on AHU side.
- not allowed for VRV H/R
- no interlaced coil possible



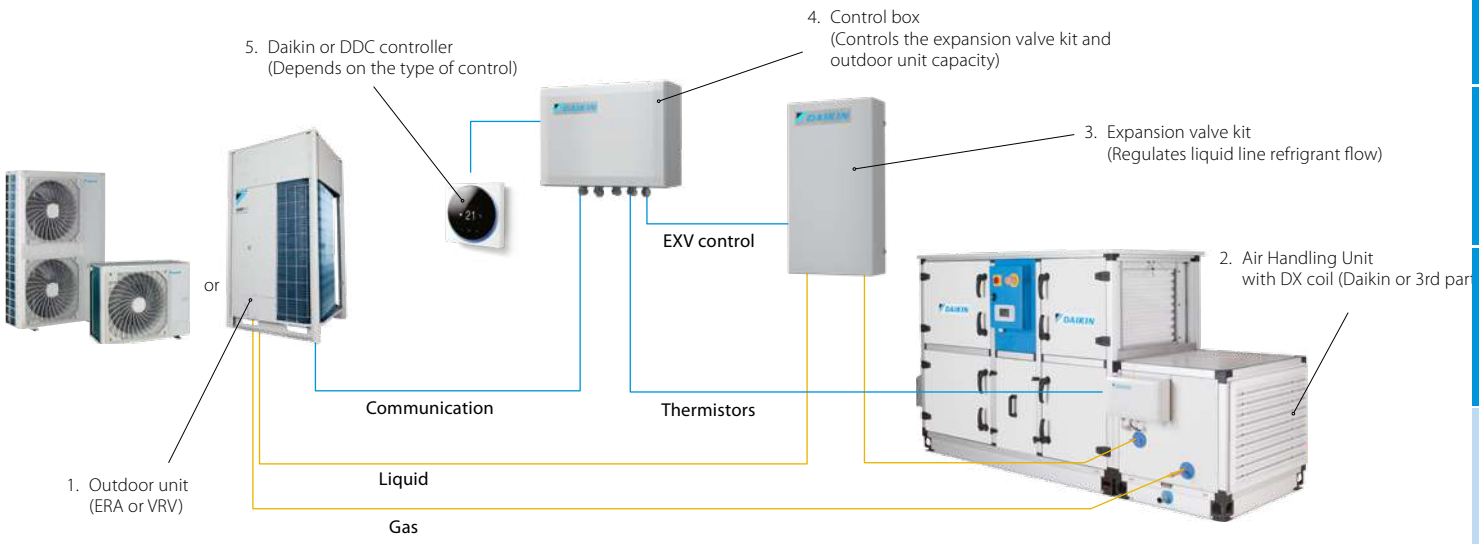
Mix layout

VRV indoor units and AHU(s) mixed in the same VRV heat pump or heat recovery system
- with Z, Z' control and field supplied controls on AHU side
- no interlaced coil possible
- hydrobox not possible





Main components with detailed piping and wiring principle



Detailed combination table

Range	Outdoor Unit	Control box	Expansion valve kits EKEXVA											
		EKEACBVE	50	63	80	100	125	140	200	250	300	350	400	450	500
ERA	ERA100A7V1B	P	-	P(a)	P(b)	P(b)	-	-	-	-	-	-	-		
	ERA125A7V1B	P	-	-	-	P(b)	P(b)	-	-	-	-	-	-		
	ERA140A7V1B	P	-	-	-	P(a)	P(b)	P(b)	-	-	-	-	-		
	ERA100A7Y1B	P	-	P(a)	P(b)	P(b)	-	-	-	-	-	-	-	-	-
	ERA125A7Y1B	P	-	-	-	P(b)	P(b)	-	-	-	-	-	-	-	-
	ERA140A7Y1B	P	-	-	-	P(a)	P(b)	P(b)	-	-	-	-	-	-	-
	ERA200AMYFB	P	-	-	-	-	-	P(b)	P(b)	-	-	-	-	-	-
	ERA250AMYFB	P	-	-	-	-	-	-	P(b)	P(b)	-	-	-	-	-
	ERA250AMYFB	P	-	-	-	-	-	-	P(a)	P(b)	P(b)	-	-	-	-

DX coil volume limitations when combined with ERA:
Please follow the AHU HEX volume limitations according to the table below:

Capacity class	Minimum heat exchanger volume [dm³]		Maximum heat exchanger volume [dm³]
	Pair combination (a)	Pair combination (b)	Pair combination
63	1.18	1.02	2.08
80	1.64	1.42	2.64
100	1.74	1.51	3.30
125	2.29	1.98	4.12
140	2.94	2.54	4.62
200	3.49	3.02	6.60
250	4.58	3.97	8.25
300	5.23	4.53	9.90

VRV IV & VRV IV+	H/P (RYYQ, RXYQ, RXYSQ, RXYTQ, RXYLQ, RXYS(C)Q, RWEYQ (H/P))	P/M	Pair and multi: 65% (1) < CR < 110% Mix: CR < 110% and 50% < IU CR < 110%
	VRV-i (RKXYQ)	P(2)/M	Pair and multi: 65%(1) < CR < 110% Mix: CR < 110% and 50% < IU CR < 110%
	H/R (REYQ, RWEYQ (H/R))	M(3)	Multi(3): 65%(1) < CR < 110% Mix: CR < 110% and 50% < IU CR < 110%
VRV 5	H/P (RXYSA, RXYA)	P/M	Pair and multi: 65%(1) < CR < 110% Mix: CR < 110% and 50% < IU CR < 110%
	H/R REYA	M(3)	Multi(3): 65%(1) < CR < 110% Mix: CR < 110% and 50% < IU CR < 110%

P: Pair layout - One or more outdoor units connected to an (interlaced) coil of one AHU
M: Mix or multi layout - Combination of (multiple) AHU(s) with (mix combination) or without (multi combination) VRV DX indoor(s). Only Z or Z' control possible (no interlaced coils)
(1): For 65%<CR<75% please refer to the specifically required coil size
(2): Only Z or Z' control possible (no interlaced coils)
(3): Technically is possible to connect H/R in pair combination, but there's no benefit to do it

R-32

Growing together towards a sustainable future



ERA-AYF

ERA-AY/AV

INVERTER

Condensing unit range connectable to Air Curtains and Direct Expansion (DX) Air Handling Units (AHUs) for fresh air and recirculation applications.

R-32

Range based on inverter technology with the use of lower GWP R-32 refrigerant for capacities from 6.3 kW up to 30 kW.

AUTO

Securing the highest comfort conditions due to the quick response of DX systems and the available control logics.

NEW

Presenting the Daikin ERA

- New line up with low GWP refrigerant R-32 up to 12 HP
- Immediate cooling and heating under any ambient or room conditions
- Better management of load for medium size spaces due to VRV technology
- Continuous Heating: Avoid cold drafts during defrost cycle
- Benefit from the high efficiency and fast response time of ERA units for changing loads
- Energy saving due to inverter technology
- Wide range of expansion valve kits available for capacities of 6.3 to 30 kW



ERA-AYF ERA-AY/AV

ERA-AV ERA-AY ERA-AYF

				ERA100AV	ERA125AV	ERA140AV	ERA100AY	ERA125AY	ERA140AY	ERA200AYF	ERA250AYF	ERA300AYF
Capacity range			HP	4	5	6	4	5	6	8	10	12
Cooling capacity	Prated,c		kW	12.1	14.0	15.5	12.1	14.0	15.5	22.4	28.0	33.5
Heating capacity	Prated, h		kW	12.1	14.0	15.5	12.1	14.0	15.5	22.4	28.0	33.5
	Max.		kW	14.2	16.0	18.0	14.2	16.0	18.0	25.0	31.5	37.5
Dimensions	HxWxD		mm	869x1,100x460						1,430x940x320	1,615x940x460	
Weight			kg	102						144	180	
Sound power level	Cooling		dB(A)	67.0	68.1	69.0	67.0	68.1	69.0	73.2	74.0	76.1
	Heating		dB(A)	69.0	70.0	71.0	69.0	70.0	71.0	73.5	74.0	76.0
Sound pressure level	Cooling		dB(A)	49.0	51.0		49.0	51.0		58.1	57.0	60.0
Operation range	Cooling	Min °C	°CDB	-5 ~ 46						-5 ~ 52		
	Heating	Max °C	°CWB	-20 ~ 16						-20 ~ 15.5		
Refrigerant	Type/GWP			R-32 / 675.0						R-32 / 675.0		
	Charge	tCO2eq/ kg	kg	3.40/2.30						5.2/3.51	7/4.73	7.1/4.79
Piping connections	Liquid OD		mm	9.52						9.5		12.7
	Gas OD		mm	15.9						19.1		22.2
	Max piping length		m	50						50		
Power supply	Phase/Freq./ Voltage		Hz/V	1~/50/220-240			3N~/50/380-415			3N~/50/380-415		
Current - 50Hz	Max. fuse amps (MFA)		A	32			16			25		32



Daikin Fresh Air package

What is included?

- A **plug & play package** with a Daikin DX outdoor unit and Daikin Air Handling Unit
- Factory fitted and welded **DX coil, expansion valve kit** and **control box**
- **One point of contact**



VRV or ERA
outdoor condensing unit

Daikin Air Handling Unit



Factory fitted and welded DX coil,
expansion valve kit and control box

Simplified business

- Unique **total solution approach** of heating, cooling and ventilation
- Off-the-shelf **compatibility** between Daikin outdoor unit and Daikin AHU
- Plug&play control for **outstanding reliability**
- **Peace-of-mind** thanks to a single point of contact

Simple selection in 2 steps

STEP 1



Select your design in
ASTRA software

Share with
Xpress

STEP 2



Add the AHU design in Xpress
(including capacity, dimensions,
refrigerant connection location,…)

Complete range of possibilities



750 m³/h up to 144,000 m³/h

D-AHU Professional

- Infinite variable sizes
- Tailored to the individual customer



500 m³/h up to 25,000 m³/h

D-AHU
Modular R

- Pre-configured sizes
- Plug and play concept
- EC Fan technology
- Heat recovery wheel
  (sorption and sensible technology)
- Modular design



500 m³/h up to 25,000 m³/h

D-AHU
Modular P

- Pre-configured sizes
- Plug and play concept
- EC Fan technology
- High efficiency aluminium counter flow PHE
- Modular design

Integration with 3rd party Air Handling Units

Also for the integration with 3rd party AHU's Daikin provides expert support for the design and installation.

Selection of the expansion valve kit – Fresh air application

- Define the required heating/cooling load of your project
- Define 3rd party AHU heat exchanger capacity
- Use the Xpress selection software or the below table to select the correct expansion valve kit
- The 3rd party AHU design should respect the allowed heat exchanger volume
- Xpress selection software will select the correct outdoor unit at the design ambient temperatures.

Cooling

	EKEXVA Class	Allowed heat exchanger capacity (kW)			Allowed heat exchanger volume (dm³)*		
					Minimum		Maximum
		Minimum	Nominal	Maximum	General Limits	(65%<CR<75%) Only for pair and multi layout	Maximum
	50	5.0	5.6	6.2	0.95	1.09	1.65
	63	6.3	7.1	7.8	1.02	1.18	2.08
	80	7.9	9.0	9.9	1.42	1.64	2.64
	100	10.0	11.2	13.1	1.51	1.74	3.30
	125	13.2	14.0	15.4	1.98	2.29	4.12
	140	15.5	16.0	21.0	2.54	2.94	4.62
	200	21.1	22.4	24.6	3.02	3.49	6.60
	250	24.7	28.0	30.8	3.97	4.58	8.25
NEW	300	30.9	33.5	36.9	4.53	5.25	9.9
NEW	350	37.0	40.0	44.0	5.48	6.32	11.55
	400	44.1	45.0	49.5	6.04	6.97	13.2
NEW	450	49.6	50.4	55.4	6.99	8.07	14.5
	500	55.5	56.0	61.6	7.55	8.72	16.5

Saturated evaporating temperature: +6°C
Air temperature: +27°C DB / +19°C WB
* Applicable when connected to VRV outdoor units. For the corresponding DX coil limitations when the DX coil is connected to ERA units, please refer to the table on page 589.

Heating

	EKEXVA Class	Allowed heat exchanger capacity (kW)			Allowed heat exchanger volume (dm³)*		
					Minimum		Maximum
		Minimum	Nominal	Maximum	General Limits	(65%<CR<75%) Only for pair and multi layout	Maximum
	50	5.6	6.3	7.0	0.95	1.09	1.65
	63	7.1	8.0	8.8	1.02	1.18	2.08
	80	8.9	10.0	11.1	1.42	1.64	2.64
	100	11.2	12.5	14.7	1.51	1.74	3.30
	125	14.8	16.0	17.3	1.98	2.29	4.12
	140	17.4	18.0	23.6	2.54	2.94	4.62
	200	23.7	25.0	27.7	3.02	3.49	6.60
	250	27.8	31.5	34.7	3.97	4.58	8.25
NEW	300	34.8	37.5	41.5	4.53	5.23	9.9
NEW	350	41.6	45.0	49.5	5.48	6.32	11.55
	400	49.6	50.0	55.7	6.04	6.97	13.2
NEW	450	55.8	56.5	62.4	6.99	8.07	14.85
	500	62.5	63.0	69.3	7.55	8.72	16.5

Saturated evaporating temperature: +46°C
Air temperature: +20°C DB
* Applicable when connected to VRV outdoor units. For the corresponding DX coil limitations when the DX coil is connected to ERA units, please refer to the table on page 589..

Selection of the expansion valve kit – Recirculation application

- Define the required heating/cooling load of your project
- Use the Xpress selection software or the below table to select the correct expansion valve, following the procedure used as for standard VRV indoor units
- The 3rd party AHU design should respect the allowed heat exchanger (DX coil) volume limitations which in are in place for VRV (above on this page) and ERA (page 7)
- Xpress selection software will select the correct outdoor unit at the design ambient temperatures

Cooling

	EKEXVA Class	On-coil air temperature [°C]						
		14WB 20DB	16WB 23DB	18WB 26DB	19WB 27DB	20WB 28DB	22WB 30DB	24WB 32DB
		kW	kW	kW	kW	kW	kW	kW
	50	3.8	4.5	5.2	5.6	5.9	6.0	6.2
	63	4.8	5.7	6.6	7.1	7.5	7.7	7.8
	80	6.1	7.2	8.4	9.0	9.5	9.7	9.9
	100	7.6	9.0	10.5	11.2	11.8	12.1	12.3
	125	9.5	11.3	13.1	14.0	14.8	15.1	15.4
	140	10.8	12.9	15.0	16.0	16.9	17.3	17.6
	200	15.1	18.0	21.0	22.4	23.6	24.2	24.6
	250	18.9	22.5	26.2	28.0	29.5	30.2	30.8
NEW	300	22.6	26.9	31.3	33.5	35.3	36.1	36.9
NEW	350	27.0	32.2	37.4	40.0	42.1	43.1	44.0
	400	30.4	36.2	42.1	45.0	47.4	48.5	49.5
NEW	450	34.0	40.5	47.2	50.4	53.1	54.3	55.4
	500	37.8	45.0	52.4	56.0	59.0	60.4	61.6

Heating

	EKEXVA Class	On-coil air temperature [°C]						
		10.0	16.0	18.0	20.0	21.0	22.0	24.0
		kW	kW	kW	kW	kW	kW	kW
	50	6.6	6.6	6.6	6.3	6.1	5.9	5.5
	63	8.4	8.4	8.4	8.0	7.7	7.5	7.0
	80	10.5	10.5	10.5	10.0	9.7	9.4	8.7
	100	13.1	13.1	13.1	12.5	12.1	11.7	10.9
	125	16.8	16.8	16.8	16.0	15.5	15.0	13.9
	140	18.9	18.9	18.9	18.0	17.4	16.8	15.7
	200	26.2	26.2	26.2	25.0	24.2	23.4	21.8
	250	33.1	33.1	33.1	31.5	30.5	29.5	27.5
NEW	300	39.4	39.4	39.4	37.5	36.3	35.1	32.7
NEW	350	47.2	47.2	47.2	45.0	43.6	42.1	39.2
	400	52.4	52.4	52.4	50.0	48.4	46.8	43.6
NEW	450	59.2	59.2	59.2	56.5	54.7	52.9	49.3
	500	66.0	66.0	66.0	63.0	61.0	59.0	54.9

BR00000554/676/749/751



Astropure 2000, Air Purifier for Commercial Applications

Plug & play, mobile recirculation unit with high efficiency filtration – for better indoor air quality in commercial spaces

- For areas where additional, extra high, filtration performance is needed.
- Airflow rate up to 2,000 m^3/h
- HEPA H14 filter in accordance with EN1822
- Pre-filter options up to ISO Coarse 70%
- Insulated double-wall construction provides whisper-quiet operation down to 35 dB(A)
- Easy installation, operation, and maintenance in a totally self-contained system
- For commercial areas up to 200m^2

Applications

Schools and Universities

Commercial Buildings

Healthcare

Hospitality

Shops and Shopping malls





Models

Model	BR00000554	BR00000749	BR00000676	BR00000751
Plug type	EU	UK	EU	UK
HEPA Filter (H14)		✓		✓
LCD Screen				✓
Activ. Carbon (Gas phase) pre-filter				✓

Providing high-efficiency 2-stage filtration

Standard prefilter

All units are delivered with a prefilter, increasing filter life and protecting the installed HEPA filter

RedPleat - 4531002424
- Delivered with BR00000554/749
- ISO 16890: ISO coarse 70%
- Available with Antimicrobial treated media (RedPleat ULTRA)



RedPleat Carb - 4139002424
- Delivered with BR00000676/751
- ISO 16890: ISO coarse 65%
- Effectively removes offensive odors



Main filter

The HEPA filter features eFRM filtration media which combines ultra-high efficiency and particulate loading to remove 99.99% of dust, pollen, mold, bacteria, viruses, and any airborne particle with a size of 0.3 microns or greater.

AstroCel III - 1493299990
- H14 filtration efficiency according EN 1822
- V-shaped filter configuration, combined with microglass media, delivers higher flow and the lowest possible pressure drop vs traditional box style HEPA filters
- Compatible with Discrete Particle Counter (DPC) and photometric test methods as access and instrumentation allow



Astropure 2000, Air Purifier for Commercial Applications

Plug & play, mobile recirculation unit with high efficiency filtration – for better indoor air quality in commercial spaces

- Airflow rate up to 2,000 m³/h
- HEPA H14 filter in accordance with EN1822
- Optional touch sensitive LCD Display (BR00000676/751)
- Insulated double-wall construction provides whisper-quiet operation
- Activated carbon filter
- Sliding tray design provides easy access and servicing of filters
- Designed with internal variable fan speed (electronically commutated) to meet specific application requirements
- Suitable for in-room use or sheltered outdoor installation
- CE-compliance, VDI 6022 guided design



BR00000676/751

BR00000554 BR00000676

Ventilation				BR00000554	BR00000749	BR00000676	BR00000751
Features	Plug type			EU	UK	EU	UK
	HEPA Filter (H14)			✓		✓	
	LCD Screen					✓	
	Activ. Carbon (Gas phase) pre-filter					✓	
Design air flow rate			m³/h	2,000			
Application				Floor standing type			
Casing	Colour			Painted galvanized steel finish			
Dimensions	Unit	HxWxD	mm	1,628x720x770			
Weight	Unit		kg	150 (depending on version)			
Pre-filter	Dust collecting method			Prefilter RedPleat, ISO Coarse 70%		Prefilter RedPleat Carb, ISO Coarse 65% gas phase filter	
HEPA filter	Bacteria filtering method			Astrocel III HEPA H14			
Air purifying operation	Power input	High fan speed	kW	0.379			
Sound pressure level	Air purifying operation	High fan speed	dBA	55.9			
Fan Motor				Stepless adjustable			
Safety devices	Item			Safety switch (operation stops when the back door is open)			
Standard Accessories	Prefilter			1			
	HEPA filter			1			
	Quick Start and Maintenance Guide			1			
	Installation and Operation Manual			1 (download)			
Power cord			m	3			
Power supply	Phase			1~			
	Frequency		Hz	50/60			
	Voltage		V	230			
Running current	Air purifying operation	High fan speed	A	1.73			

		Energy recovery ventilation - VAM								
		VAM 150FC9	**VAM 250FC9**	**VAM 350J8**	**VAM 500J8**	**VAM 650J8**	**VAM 800J8**	**VAM 1000J8**	**VAM 1500J8**	**VAM 2000J8**
Individual control systems	**BRC301B61** VAM wired remote control	•	•	•	•	•	•	•	•	•
	Madoka **BRC1H52W7** (White) / **BRC1H52S7** (Silver) / **BRC1H52K7** (Black) User-friendly wired remote controller with premium design	•	•	•	•	•	•	•	•	•
	BRC1E53A/B/C Wired remote control with full-text interface and back-light	•	•	•	•	•	•	•	•	•
	BRC1D52 Standard wired remote control with weekly timer	•	•	•	•	•	•	•	•	•
Centralised control systems	**DCC601A51** intelligent Tablet Controller	•	•	•	•	•	•	•	•	•
	DCS601C51 intelligent Touch Controller	•	•	•	•	•	•	•	•	•
	DCS302C51 Central remote control	•	•	•	•	•	•	•	•	•
	DCS301B51 Unified ON/OFF control	•	•	•	•	•	•	•	•	•
Building Management System & Standard protocol interface	**DCM601A51** intelligent Touch Manager	•	•	•	•	•	•	•	•	•
	DGE601A51 Edge adapter for connection to Daikin Cloud Plus	•	•	•	•	•	•	•	•	•
	DGE602A51 Edge lite adapter for connection to Daikin Cloud Plus	•	•	•	•	•	•	•	•	•
	EKMBDXB Modbus interface	•	•	•	•	•	•	•	•	•
	DMS502A51 BACnet Interface	•	•	•	•	•	•	•	•	•
	DMS504B51 LonWorks Interface	•	•	•	•	•	•	•	•	•
Filters	Coarse 55% (G4)									
	ePM10 75% (M5)									
	ePM10 70% (M6)			EKAFVJ50F6	EKAFVJ50F6	EKAFVJ65F6	EKAFVJ100F6	EKAFVJ100F6	EKAFVJ100F6 x2	EKAFVJ100F6 x2
	ePM1 50% (F7)									
	ePM1 60% (F7)			EKAFVJ50F7	EKAFVJ50F7	EKAFVJ65F7	EKAFVJ100F7	EKAFVJ100F7	EKAFVJ100F7 x2	EKAFVJ100F7 x2
	ePM1 70% (F8)			EKAFVJ50F8	EKAFVJ50F8	EKAFVJ65F8	EKAFVJ100F8	EKAFVJ100F8	EKAFVJ100F8 x2	EKAFVJ100F8 x2
	ePM1 80% (F9)									
	High efficiency filter									
	Replacement air filter									
Mechanical accessories	Rail									
	Rectangular to round duct transition									
	Separate plenum								EKPLEN200 (5)	EKPLEN200 (5)
CO_2 sensor				BRYMA65	BRYMA65	BRYMA65	BRYMA100	BRYMA100	BRYMA200	BRYMA200
Electrical heater for pre treatment of fresh air		GSIEKA10009	GSIEKA15018	GSIEKA20024	GSIEKA20024	GSIEKA25030	GSIEKA25030	GSIEKA25030	GSIEKA35530 (6)	
DX coil for post treatment of fresh air					EKVDX32A	EKVDX50A	EKVDX50A	EKVDX80A	EKVDX100A	EKVDX100A
Silencer (900mm depth)										
Electrical accessories	Wiring adapter for external monitoring/ control (controls 1 entire system)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)
	Adapter PCB for humidifier									
	Adapter PCB for third party heater	BRP4A50A	BRP4A50A	BRP4A50A (4)	BRP4A50A (4)	BRP4A50A (3/4)	BRP4A50A (4)	BRP4A50A (4)	BRP4A50A (3/4)	BRP4A50A (3/4)
	External wired temperature sensor									
	Adapter PCB Mounting plate	EKMP25VAM	EKMP25VAM			EKMP65VAM			EKMPVAM	
	Installation box for adaptor PCB	KRP1BA101	KRP1BA101	KRP1BA101	KRP1BA101	KRP1BA101	KRP1BA101	KRP1BA101	KRP1BA101	KRP1BA101

Notes

(1) Do not connect the system to DIII-net devices LONWorks interface, BACnet interface, …; (intelligent Touch Manager, EKMBDXA are allowed)

(2) Installation box needed

(3) Adapter PCB mounting plate needed, applicable model can be found in the table above

(4) 3rd party heater and 3rd party humidifier cannot be combined

(5) Contains 1 plenum and can be used for half side of the unit (up to 4 plenums can be used on 1 unit)

(6) Available only with optional plenum

(7) To be combined with option BRP4A50A using external 230VAC with local supplied circuit breaker (max. 3A)

Energy recovery ventilation VKM			Air handling unit applications
VKM 50GBM	**VKM 80GBM**	**VKM 100GBM**	**EKEACB (1)**
•	•	•	•
•	•	•	
•	•	•	
•	•	•	
•	•	•	
•	•	•	
•	•	•	
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	
•	•	•	
KAF242H80M	KAF242H100M	KAF242H100M	
KAF241H80M	KAF241H100M	KAF241H100M	
BRYMA65	BRYMA100	BRYMA100	
GSIEKA20024 (7)	GSIEKA20024 (7)	GSIEKA20024 (7)	
BRP4A50A (4)	BRP4A50A (4)	BRP4A50A (4)	
BRP4A50A (4)	BRP4A50A (4)	BRP4A50A (4)	
BRP4A50A (4)	BRP4A50A (4)	BRP4A50A (4)	
			KRCS01-1

Accessories	Compact L Pro						Compact T Pro				
	ALB02LCM ALB02RCM	ALB03LCM ALB03RCM	ALB04LCM ALB04RCM	ALB05LCM ALB05RCM	ALB06LCM ALB06RCM	ALB07LCM ALB07RCM	ATB03RBM ATB03LBM	ATB04RBM ATB04LBM	ATB05RBM ATB05LBM	ATB06RBM ATB06LBM	ATB07RBM ATB07LBM
Iso Coarse 55% (G4) Filter	ALF02G4A	ALF03G4A	ALF05G4A		ALF07G4A		ATF03G4A	ATF04G4A	ATF05G4A	ATF06G4A	ATF07G4A
ePM10 75% (M5) Filter	ALF02M5A	ALF03M5A	ALF05M5A		ALF07M5A		ATF03M5A	ATF04M5A	ATF05M5A	ATF06M5A	ATF07M5A
ePM1 50% (F7) Filter	ALF02F7A	ALF03F7A	ALF05F7A		ALF07F7A		ATF03F7A	ATF04F7A	ATF05F7A	ATF06F7A	ATF07F7A
ePM1 80% (F9) Filter	ALF02F9A	ALF03F9A	ALF05F9A		ALF07F9A		ATF03F9A	ATF04F9A	ATF05F9A	ATF06F9A	ATF07F9A
Sound attenuator	ALS0290A	ALS0390A	ALS0590A		ALS0790A		ATS0360A	ATS0460A	ATS0560A	ATS0660A	ATS0760A
Rails for door	ALA02RLA	ALA03RLA	ALA05RLA		ALA07RLA						
Duct transition	ALA02RCA	ALA03RCA	ALA05RCA		ALA07RCA						
Flexible joints	ALA02FXB	ALA03FXB	ALA05FXB		ALA07FXB						
Mixing damper									ATA05MDA	ATA06MDA	ATA07MDA
External damper	ALA02EDA	ALA03EDA	ALA05EDA		ALA07EDA		ATA03EDA	ATA04EDA	ATA05EDA	ATA06EDA	ATA07EDA
Electric pre heater [1]	ALD02HEFA	ALD03HEFA	ALD05HEFA		ALD07HEFA		ATD03HEFAU	ATD04HEFAU	ATD05HEFAU	ATD06HEFAU	ATD07HEFAU
Electric post heater [1]	ALD02HESA	ALD03HESA	ALD05HESA		ALD07HESA		ATD03HESAU	ATD04HESAU	ATD05HESAU	ATD06HESAU	ATD07HESAU
DX coil [2]			ALD05CDSA		ALD07CDSA		ATD03UDSAR	ATD04UDSAR	ATD05UDSAR	ATD06UDSAR	ATD07UDSAR
							ATD03UDSAL	ATD04UDSAL	ATD05UDSAL	ATD06UDSAL	ATD07UDSAL
								ATD04UDSBL	ATD05UDSBL	ATD06UDSBL	ATD07UDSBL
								ATD04UDSBR	ATD05UDSBR	ATD06UDSBR	ATD07UDSBR
WATER coil [2]	ALD02CWSA	ALD03CWSA	ALD05CWSA		ALD07CWSA		ATD03UWSAR	ATD04UWSAR	ATD05UWSAR	ATD06UWSAR	ATD07UWSAR
							ATD03UWSAL	ATD04UWSAL	ATD05UWSAL	ATD06UWSAL	ATD07UWSAL
Water pre heating coil	ALD02HWUA	ALD03HWUA	ALD05HWUA		ALD07HWUA		ATD03HWFAU	ATD04HWFAU	ATD05HWFAU	ATD06HWFAU	ATD07HWFAU
Water post heating coil [2]	ALD02HWUA	ALD03HWUA	ALD05HWUA		ALD07HWUA		ATD03HWSAR	ATD04HWSAR	ATD05HWSAR	ATD06HWSAR	ATD07HWSAR
							ATD03HWSAL	ATD04HWSAL	ATD05HWSAL	ATD06HWSAL	ATD07HWSAL
Droplet Eliminator	ALA02DEA	ALA03DEA	ALA05DEA		ALA07DEA						
Water valve 2 way cooling/heating	ALV02CW2A	ALV03CW2A	ALV05CW2A		ALV07CW2A		ATV03CW2A	ATV04CW2A	ATV05CW2A	ATV06CW2A	ATV07CW2A
Water valve 3 way cooling/heating	ALV02CW3A	ALV03CW3A	ALV05CW3A		ALV07CW3A		ATV03CW3A	ATV04CW3A	ATV05CW3A	ATV06CW3A	ATV07CW3A
Valve modulating actuator	ATE00AMVA										
Damper modulating actuator	ATE00AMDA										
Digital PCB							ATE00DPUA				
Spring return modulating actuator	AUE00ASUA										
Frost switch	ALE00FSUA						ATE00FSUA				
CO_2 sensor	ALP00COA										
Humidity sensor	ALP00HUA										
Temperature probe	ALP00TEA										
Pressure transducer	AUE00PTUA										
Room Interface	ALC00822A (POL 822)										
Commissioning module	ALC00895A (POL 895)										
Modbus RTU module	ALC00902A (POL 902)										
Bacnet IP module	ALC00908A (POL 908)										
Expansion module	ALC00955A										
LonWorks Interface											
Intelligent Touch Manager											
Intelligent Tablet Controller											
Intelligent Touch Controller											
Central remote control											
Unified ON/OFF control											

Notes

(1) For Compact T pro only, both electric heater can be used as pre and post heater

(2) For Compact T pro only, sixth digit on main unit material name has to be aligned with last digit of the coil material name (with the exception of the electric heater and water pre heating coil)
ATB0**R**BM --> ATB0*UDSA**R**
ATB0**R**BM --> ATB0*UDSB**R**
ATB0**R**BM --> ATB0*UWSA**R**
ATB0**R**BM --> ATB0*HWSA**R**
ATB0**L**BM --> ATB0*UDSA**L**
ATB0**L**BM --> ATB0*UDSB**L**
ATB0**L**BM --> ATB0*UWSA**L**
ATB0**L**BM --> ATB0*HWSA**L**

(3) Please refer to the selection software for more details on accessories and their incompatibilities.

Compact L Smart						Compact T Smart				
ALB02LCS ALB02RCS	**ALB03LCS ALB03RCS**	**ALB04LCS ALB04RCS**	**ALB05LCS ALB05RCS**	**ALB06LCS ALB06RCS**	**ALB07LCS ALB07RCS**	**ATB03RBS ATB03LBS**	**ATB04RBS ATB04LBS**	**ATB05RBS ATB05LBS**	**ATB06RBS ATB06LBS**	**ATB07RBS ATB07LBS**
ALF02G4A	ALF03G4A	ALF05G4A		ALF07G4A		ATF03G4A	ATF04G4A	ATF05G4A	ATF06G4A	ATF07G4A
ALF02M5A	ALF03M5A	ALF05M5A		ALF07M5A		ATF03M5A	ATF04M5A	ATF05M5A	ATF06M5A	ATF07M5A
ALF02F7A	ALF03F7A	ALF05F7A		ALF07F7A		ATF03F7A	ATF04F7A	ATF05F7A	ATF06F7A	ATF07F7A
ALF02F9A	ALF03F9A	ALF05F9A		ALF07F9A		ATF03F9A	ATF04F9A	ATF05F9A	ATF06F9A	ATF07F9A
ALS0290A	ALS0390A	ALS0590A		ALS0790A		ATS0360A	ATS0460A	ATS0560A	ATS0660A	ATS0760A
ALA02RLA	ALA03RLA	ALA05RLA		ALA07RLA						
ALA02RCA	ALA03RCA	ALA05RCA		ALA07RCA						
ALA02FXB	ALA03FXB	ALA05FXB		ALA07FXB						
ALD02HEFB	ALD03HEFB	ALD05HEFB		ALD07HEFB		ATD03HEFBU	ATD04HEFBU	ATD05HEFBU	ATD06HEFBU	ATD07HEFBU
				BRYMA200						
				BRC301B61 / BRC1H52W7 / BRC1H52S7 / BRC1H52K7 / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52						
				EKMBDXB						
				DMS502A51						
				DMS504B51						
				DCM601A51						
				DCC6011A51						
				DCC6011C51						
				DCS302C51						
				DCS301B51						



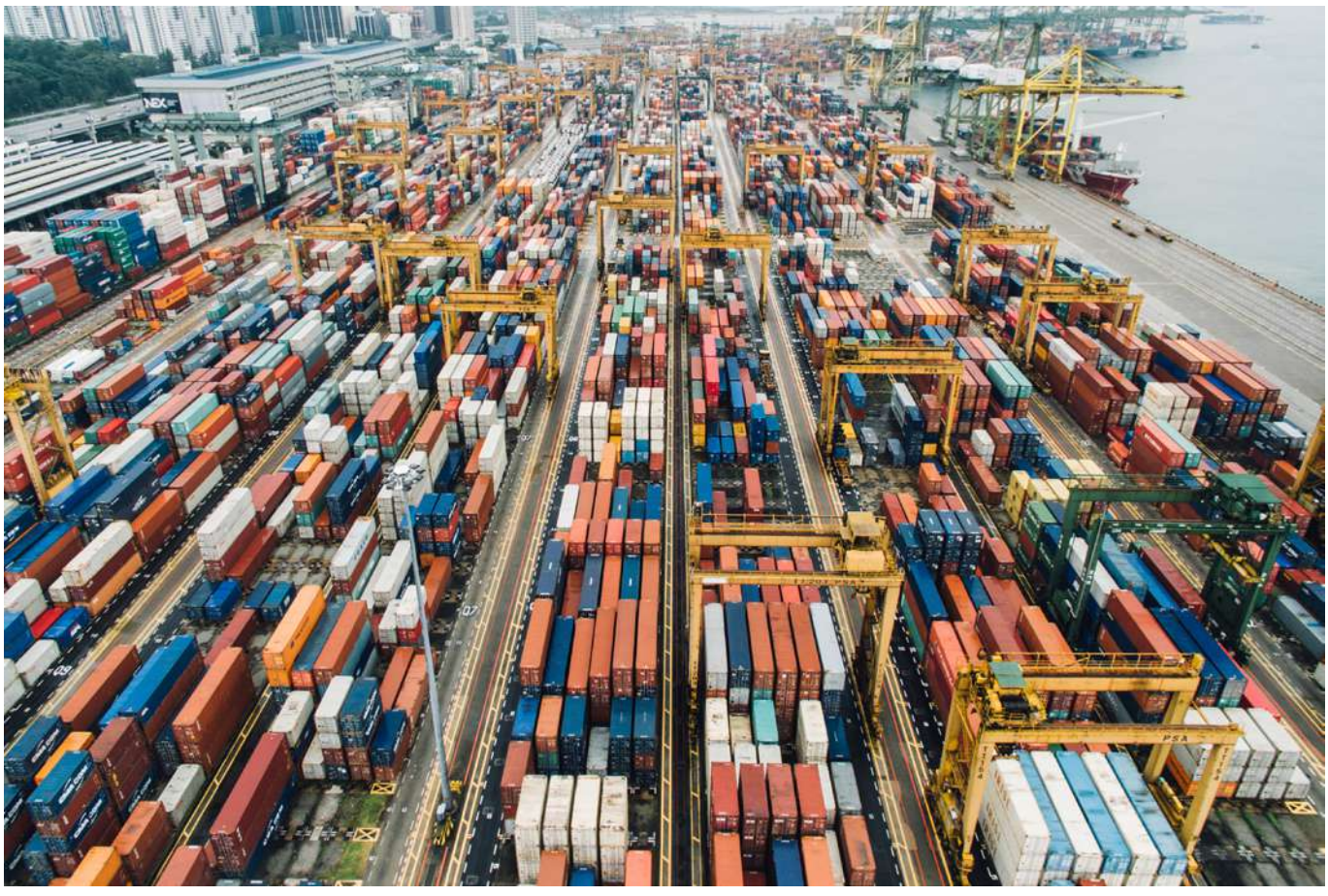
Marine Industry

From air conditioning to refrigeration

The highest peak in marine technology

Marine Industry

- The Chiller Technology 602
- The Standard Marine technology 604
- The Air Handling and Fan Coil units 606
- The DX range 608
- The Controller 609





The Chiller technology

Energy efficient & outstanding reliability

“Cooling and heating capacity”

Available Features

- Condenser Shell & tube type
- Cu- or Cu-Ni 90/10 tubing
- Compact, modular design
- Anti-vibration features
- Halogen free cabling & insulation
- Inverter driven Compressors
- Low GWP refrigerants
- Operation as a heat pump
- Stainless steel cable trays
- Roll & Pitch resistant
- Power supply 400/440/690V/6,600V & 50/60Hz
- LRoS, ABS, BV, DNV/GL, classNK, RINA, Solas IMO certified
- Customized units control system



Hydro Cube



Air cooled chiller



J Type (screw)



Cooling capacity 10 kW to 9,000 kW



VZ Type (single screw)



VZ Type (dual screw)



DWSC Type (single centrifugal)



DWDC Type (dual centrifugal)



The Standard Marine Technology

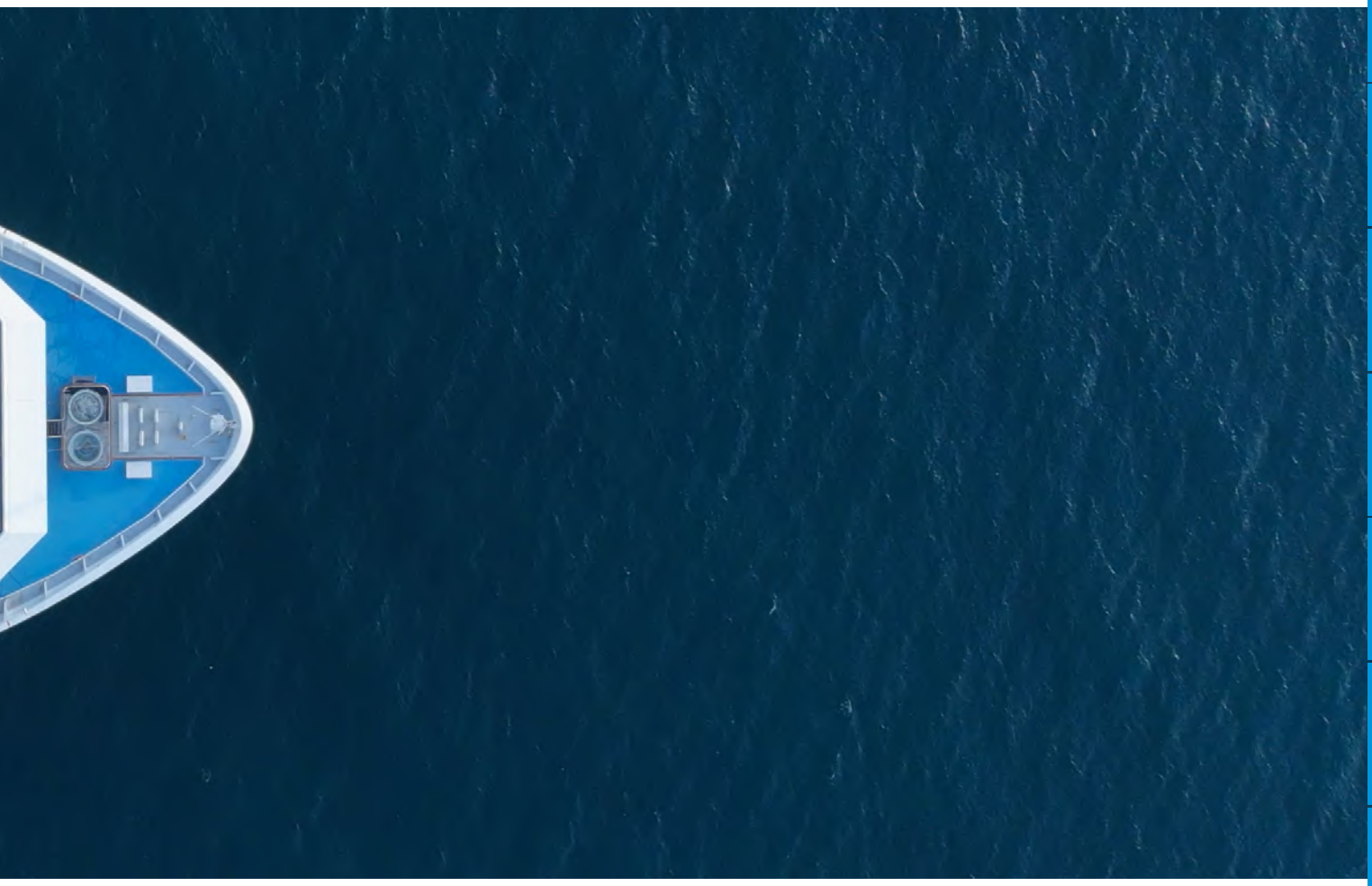
Reliable marine air conditioning

Available Features

- Electrical heater
- 2 or 3 way sea-water-valves
- Remote Control
- Increase of external pressure
- 690V execution
- or other things on demand
- LRoS, ABS, BV, DNV/GL, classNK, RINA, Solas IMO certified



Water Chilling Unit





Marine Compact



Deck Unit



Galley Unit



Refrigeration Condensing Unit

The Air Handling and Fan Coil units

Performance You Demand. Quality You Expect.

Available Features AHU

- Electrical heater
- Various stainless steel surfaces
- Special coating (plastisol, precoated)
- 3D drip pan
- Coils Cu, CuNi, stainless titanium
- Electro fin or heresite coating
- Up to 65mm wall thickness
- External pressure up to 2,500Pa
- 400V / 440V / 690V – 50Hz / 60Hz
- Fully prewired (optional)
- With automation (optional)
- Optimized component selection (low energy consumption)
- Comprehensive tested to clients



The Ocean R



The Ocean P



Available Features FCU

- Special coating
- Thermostat, build in or remote, wireless or hard-wired
- Various IP classes
- Anti vibration features
- 60 Hz modifications
- Roll & Pitch modification, drip pan height 35 mm & double outlet
- ATEX certification
- or on demand



ALB-RB_LB



FWV01-02DT-DF



CQ35-50-60-71C



FWD04AT-AF



FWT-CT

The DX Range

Flexible to fit your project



Features available on demand

- Special coating
- Thermostat, build in or remote
- Wireless or hard wired
- Various IP classes
- Anti vibration features
- 60 Hz modifications
- Roll & Pitch modification, drip pan height 35mm & double outlet
- ATEX certification



The Controller



Available Features

- Several protocol interfaces
- Remote control
- Visualization of energy consumption
- Remote support and diagnostics
- Predictive logic for VRV
- Daikin Cloud Service



Web Access

DAIKIN CLOUD SERVICE

To connect intelligent Touch Manager to the Daikin Cloud Service, the IoT gateway (EU. SB.5000072) and AC/DC converter (999175A) is needed.

Internet
Extranet
LAN
3G
HTTP interface



Integration of third party equipment

touch Intelligent Manager

DCM601B51



Fire alarm

kWh meter

Di/Pi line
Max. 200m

BACnet/IP protocol



WAGO interface

Analog/digital/pulse objects

Lighting

Fan

Pump

Sensor

I/O module

I/O module

Multi state objects

Elevator

Air handling unit

Alarm

DALI Protocol

Lighting

Sensor

Full control of Daikin HVAC-R portfolio

DIII Plus adaptor DGE601A52

DIII Plus adaptor Slot DGE601A53
Max. 6 Additional Slots can be connected





Max 64 indoor units

Direct plug & play connection!

Split
Sky Air
VRV
indoor units,
air curtain,
hydrobox,
air handling units



KRP928* adaptor





Fan coil units



Chillers and AHU



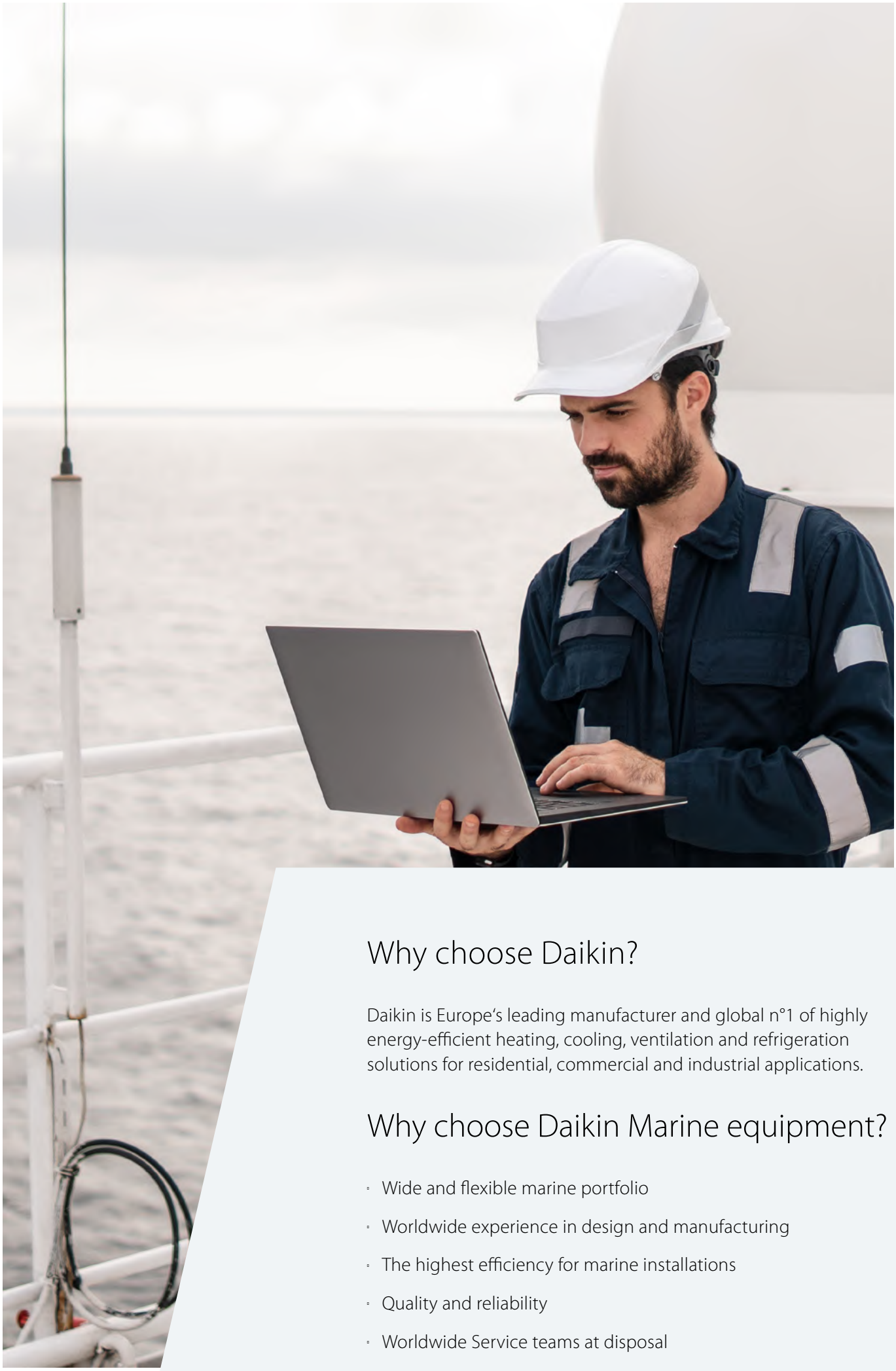












Why choose Daikin?

Daikin is Europe's leading manufacturer and global n°1 of highly energy-efficient heating, cooling, ventilation and refrigeration solutions for residential, commercial and industrial applications.

Why choose Daikin Marine equipment?

- Wide and flexible marine portfolio
- Worldwide experience in design and manufacturing
- The highest efficiency for marine installations
- Quality and reliability
- Worldwide Service teams at disposal



Daikin chillers offer the ultimate in reliability and flexibility — a reflection of the advanced technology inherent within them. Daikin chillers represent the sure and safe route to a comfortable environment and a process cooling solution that is clean and consistent.

Chillers

Tools and platforms 615

Daikin, the best partner for your green project 616

Reliability and efficiency 618

Why choose Daikin chillers 622

Products Overview - Air cooled chillers, condensing units and Multipurpose units 624

Products Overview - Water cooled and condenserless chillers 626

Air cooled chillers cooling only 629

- EWAA-DV3P 629
- EWAA-DW1P 630
- EWAA-DV3P-H 631
- EWAA-DW1P-H 632
- EWAT-CZ 633
- EWYT-CZ 636
- EWAD-TZ D 640
- EWAH-TZ D 652
- EWAS-TZ D 664
- EWAT-B-SSB/SLB 676
- EWAT-B-SRB 677
- EWAT-B-XSB/XLB 678
- EWAT-B-XRB 679
- EWAT-B-SSC 680
- EWAT-B-SRC 681
- EWAT-B-XSC 682
- EWAT-B-XRC 683
- EWFT-B-SSC 684
- EWFT-B-SRC 685
- EWFT-B-XSC 686
- EWFT-B-XRC 687
- EWFD-TZ D 688
- EWFH-TZ D 696
- EWFS-TZ D 704

Air cooled chillers Heat pump 712

- EWYA-DV3P 712
- EWYA-DW1P 714
- EWYA-DW1P-H- 715
- EWYA-DV3P-H- 716
- EWYT-B-SS/SL 720
- EWYT-B-SR 721
- EWYT-B-XS/XL 722
- EWYT-B-XR 723
- EWYT-CZ I / EWYT-CZ O 724
- EWYD-BZSS 725
- EWYD-BZSL 726

Multipurpose unit 728

- EWYS-4Z NEW 728

Air cooled condensing unit 730

- ERAD-E-SS 730
- ERAD-E-SL 731

Water cooled chillers 732

- EW(W-H-L)T-Q-A NEW 732
- EWWQ-KC 735
- EWHQ-G-SS 736
- EWWQ-G-SS 737
- EWWQ-L-SS 738
- EWWD-J-SS 739
- EWWH-J-SS 740
- EWWS-J-SS 741
- EWWD-VZ 744
- EWWH-VZ 748
- EWWS-VZ 752

Condenserless chillers 756

- EWLQ-KC 756
- EWLQ-G-SS 757
- EWLQ-L-SS 758
- EWLD-J-SS 759
- EWLH-J-SS 760
- EWLS-J-SS 761
- EWLD-I-SS 762

Water cooled centrifugal chillers 764

- EWWD-DZ 764
- EWWH-DZ 766
- EWWS-DZ 768
- DWSC C Series 770
- DWDC C Series 771

Accessories 772

For latest data, please consult my.daikin.eu

Forged under severe conditions around the world, Daikin chillers, fan coil units & air handling units provide high quality, operation efficiency and energy savings. Various applications are possible including air conditioning applications, industry-type process cooling and heating, and large-scale district cooling and heating.



A partner of choice

Daikin is Europe's leading manufacturer and global n°1 of highly energy-efficient heating, cooling, ventilation and refrigeration solutions for residential, commercial and industrial applications. Daikin is a leader in using technologies that help preserve the environment, such as those that conserve energy and deliver high reliability to its customers. Daikin's flexible applied systems deliver high efficiency for commercial, institutional and industrial buildings.

The comfort of reliability

Nobody is really looking for complexity in business. Because complexity often leads to mistakes, delays or losses. Unfortunately, the world we are all doing business in, is sometimes quite complex. When looking for further business development, we all expand our national and international operations. And that doesn't make things easy.
As a small scale business or multinational company, you deserve the best partners. Partners that can take away the headaches and make you feel comfortable again. With Daikin, you have found such a partner.
Because Daikin would like things to be easy … for you.

Daikin quality

Daikin's much envied quality quite simply stems from the close attention paid to design, production and testing as well as aftersales support. To this end, every component is carefully selected and rigorously tested to verify its contribution to product quality and reliability.

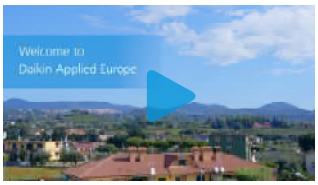
Staff who understands you

Daikin and its staff of devoted engineers, consultants and analysts are ready to assist you on a daily basis in setting up nationwide or international agreements, providing advice on equipment selection and monitoring regulations. Our goal is to help you carry out your plans with confidence, using custom-designed systems that meet your needs (for comfort, performance levels, support and service).

Daikin Applied Development Center

Opened in May 2009, the Daikin Applied Development Center is the world's most advanced facility for heating, ventilation and air conditioning (HVAC) research and development. The purpose of the center is to develop and test advanced chiller, compressor and other HVAC technologies to reduce energy consumption and, ultimately the carbon footprint of the buildings where they will be used.

Find out more about the Daikin Applied Europe in the video below:



YouTube
www.youtube.com/DaikinEurope

Witness Testing

Chiller testing facilities Daikin Applied Europe

We are industry leaders in air cooled and water cooled chiller technologies. Our performance in each condition can be shared through witness tests.
During witness testing even the toughest design conditions can be simulated.
Customers and consultants can appreciate product performance before its delivery, ensuring "peace of mind" chiller integration in the whole project.
We have specific competencies and state of the art testing facilities to pursue these goals.

Find out more about our testing facilities in the video below:



YouTube
www.youtube.com/DaikinEurope

Tools and platforms

Have a question, looking for specific software applications, need detailed product information or looking for any other marketing tools? This overview gives you an idea of what we can offer.

Selection software

Daikin Europe offers you a variety of building modelling, selection, simulation and quotation software tools to support your sales.

Web-based chiller selection software

A user-friendly interface allows users to quickly create new projects, open and change exisiting projects or simply do a quick selection. Technical selection reports can be printed or downloaded in several formats.

To make life easier, the tool is accessible everywhere, via any device. No matter where you are, projects can be consulted.

Create now a new account on:
http://tools.daikinapplied.eu/



ASTRA Web

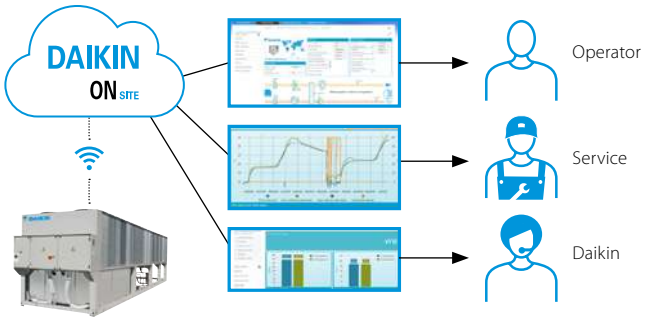
- Quick AHU selection that will save you precious time, drastically reducing selection time through the new software interface.
- Very competitive solution available within the Wizard thanks to pre-uploaded parameters.
- High selection quality, thanks to the intelligence embedded within the software core.

Online support

Business portal
Experience our new extranet that thinks with you
- Find information in seconds via a powerful search
- Customize the options so you see only info relevant for you
- Access via mobile or desktop via **my.daikin.eu**

Daikin on Site
A new remote monitoring and control for chillers and air handling units has been developed by Daikin to give peace of mind to the end-customer.

Using this new tool results in optimum use and costs over the system's entire lifetime:
- enhanced control and measuring
- monitors the system
- reduces risks at the earliest possible moment
- keeps the system running as it was intended to



BREEAM®

Daikin, the best partner for your green project

From 2015 onwards the majority of new building projects in Europe are expected to be green.
93% percent of developers & investors consider green certification important
BREEAM and LEED green building programmes are the two most important sustainable building certificates in Europe, covering more than 75% of the total sustainable-building certificate market.

Property developers are setting high standards

- Aiming for a BREEAM Excellent or LEED Gold target is no longer rare

The real challenge? Achieving these targets while staying within budget HVAC-R systems play an important role

- Within the total green assessment & investment cost
- They require the alignment of many different parties

It is essential to choose an HVAC-R partner with the knowledge and portfolio to achieve your BREEAM or LEED objectives, and other green needs. Daikin has successfully participated in many green and sustainable projects. Helping builders achieve BREEAM Excellent, LEED Gold, NZEB and similar certificates has become one of our specialities.

☑ **We have a team of BREEAM accredited professionals (APs) at your service!**

- Over 17 APs across Europe
- Assisting you to achieve your BREEAM certificate

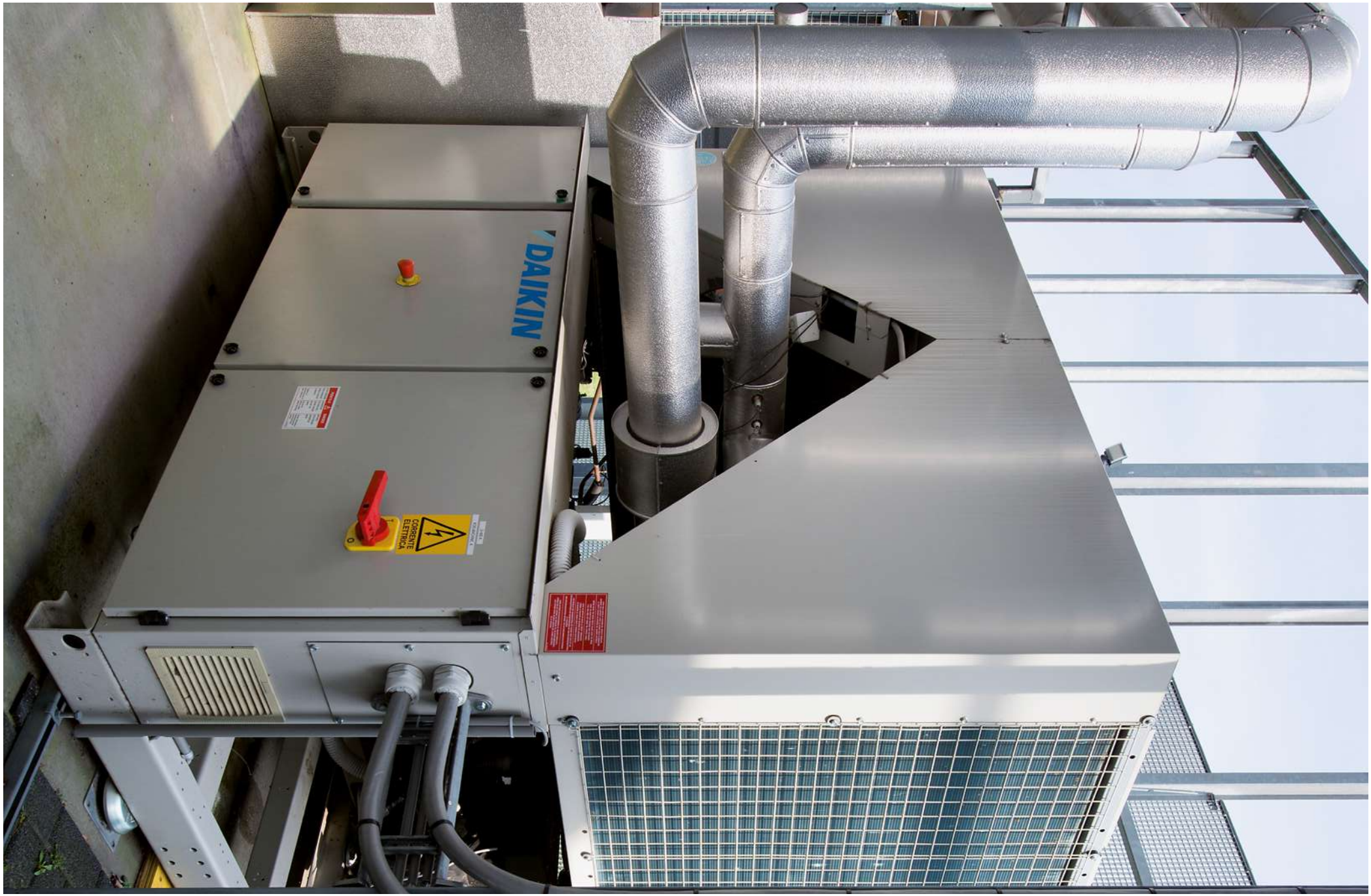
☑ **You get maximum support in scoring BREEAM credits & LEED points:**

- Daikin Total HVAC-R Solutions
- High seasonal efficiency technologies
- Smart energy management with intelligent network
- Boost your end score with innovative products & technologies

Maximise your BREEAM and LEED green building programme score with Daikin solutions

- **Manage up to 70% of your energy consumption with the Daikin Total Solution**
- **Top seasonal efficiency**
  Both BREEAM and LEED green building programmes put the strongest focus on energy efficiency. This is exactly why it's so important to choose Daikin.
- **Smart air conditioning management with Intelligent Network**
  To drastically reduce your energy consumption and CO_2 emissions it's not enough to simply make your equipment more efficient.

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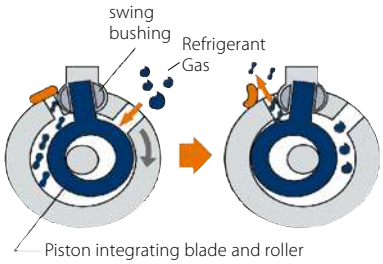

DAIKIN
CORRENTE ELETTRICA

Day-to-day reliability and efficiency

Inhouse development and manufacturing of compressors

Unlike many other air conditioning manufacturers, Daikin manufactures its own compressors.
This is important because the compressor is the very heart of the air conditioning system, increasing the pressure and temperature of the refrigerant vapour, effectively concentrating the heat as it passes around the system. Daikin has always been at the forefront of developing compressor technology and now offers a comprehensive range of swing, scroll, screw and centrifugal compressors. As a result, inverter compressor control is applied throughout our product range, delivering enhanced comfort and system efficiency.

Swing compressor



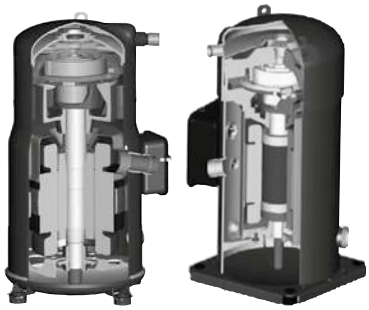
The mini chiller series EWAQ005-007ADVP & EWYQ005-007ADVP are equipped with a swing inverter compressor. This innovative design by Daikin has fewer moving parts allowing a smoother, more reliable operation with low vibration and low noise levels. The high-efficiency motor reduces energy consumption, resulting in energy cost savings.

Scroll compressor for controlled capacity

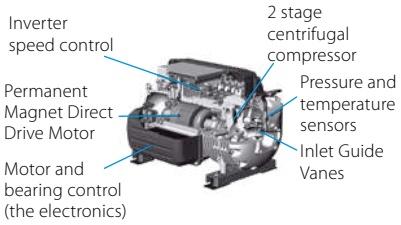
Being compact, the Daikin scroll compressor is used with R-407C and R-410A to provide constant reliability and high efficiency throughout its service life. Designed for small and medium capacities, the scroll compressors are used with air cooled and water cooled chillers.

Characteristics:

- Compact, simple yet robust design
- Absence of valves and oscillating connecting mechanisms providing maximum reliability
- Constant compression guaranteeing low energy consumption
- Increased compression efficiency thanks to the absence of volumetric re-expansion
- Low sound level
- Low starting current



Innovative frictionless centrifugal compressor



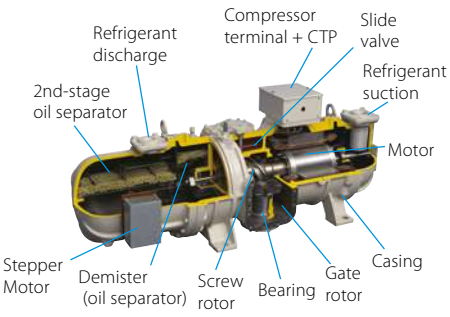
The innovative frictionless centrifugal compressor has an integrated VFD, as well as magnetic bearings, and delivers high levels of unit efficiency and reliability. The compressor's only moving part - the rotor shaft and impellers - are powered by the permanent magnetic direct-drive motor and kept levitated by a digitally controlled magnetic bearing system. This reduction in moving parts significantly increases unit reliability and reduces maintenance costs. As the condensing temperature and/or cooling load reduces, the speed of rotation reduces and movable inlet guide vanes, activated by the step motor, redirect gas flow into the first stage impeller once the compressor has reached its minimum speed. This delivers increased efficiency and cost savings during part-load operations.



Whatever the requirements of the customer - large systems requiring constant capacity or small systems for flexibility - Daikin always provides a reliable and efficient solution.

The single-screw stepless compressor for high capacity

At the heart of the larger Daikin chillers is a semi hermetic single screw compressor, designed, tested and manufactured in Daikin's own factories, in order to meet the highest capacity, performance and maintenance specifications. This compressor has been especially developed for operation with R-410A or R-134a refrigerants, guaranteeing unequalled reliability and many years of efficient operation. The bearing life is 100,000hrs with inspection and maintenance intervals every 40,000hrs.



Characteristics:

- Optimal performance through stepless capacity control chilled water temperatures. The unit capacity is infinitely variable from 30 - 100% on single circuit units and 15 -100 % on dual circuit units.
- Compact, simple yet robust construction.
- Using a main single screw and two gate rotors, axial and radial forces are balanced, thanks to the symmetrical compression guaranteeing low bearing loads.
- Gate rotors made of polymer material result in closer tolerances with the main screw and reduced friction greatly improves compressor efficiency and lifetime.
- No oil pump necessary - lubrication based on the differential pressure principle.
- Easy access to both compressor and safety devices.
- Star-Delta starter with low starting current as standard.

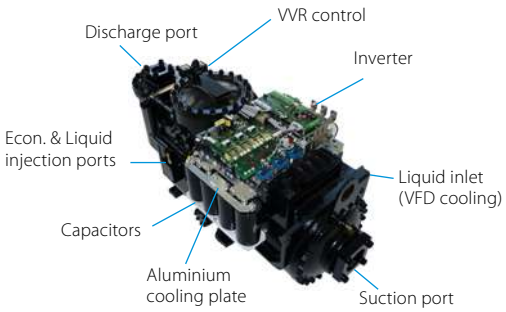
Screw compressor with integrated inverter

Characteristics:

- Compressor and inverter fully designed by Daikin
- Inverter integral to the compressor body
- Inverter refrigerant cooled
- VVR = Variable Volume Ration for optimized efficiency
- Enlarged discharge port and suction side for reduced refrigerant pressure drop
- New optimized compressor motors

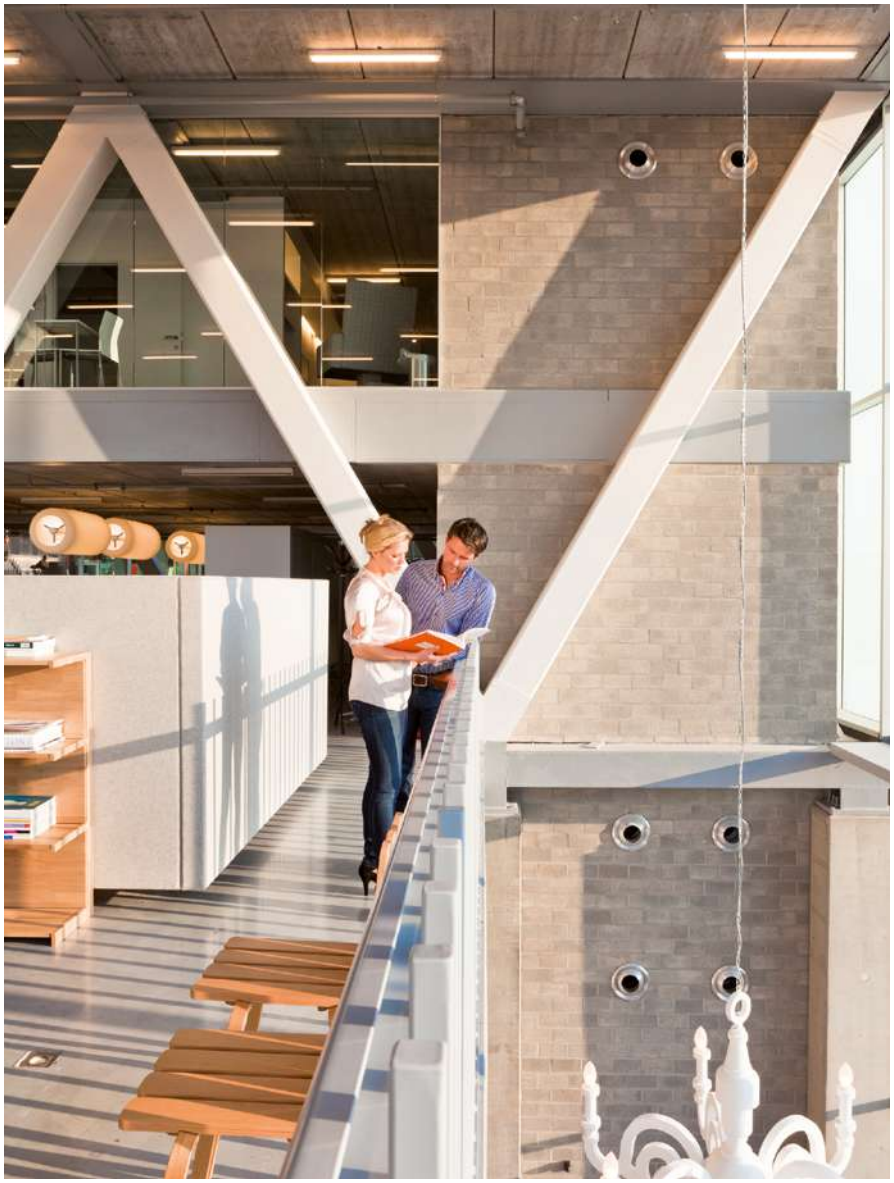
Main benefits:

- Better ESEER & EER values
- 30% more compact than single-screw compressor
- Rapid payback time
- Silent operations
- Optimal comfort levels





Air cooled chiller installation



Office application



Air cooled chiller installation



Industrial Application



Hotel application



Data center application





Process cooling application



Daikin chillers

Why choose Daikin chillers?

Daikin chillers are the perfect bridge between project requirements and customer satisfaction. From the smallest chillers to the very largest, our quality control and attention detail is absolute. Our systems have the **most advanced technologies**, deliver **the highest energy efficiencies** and **lowest running costs**, and are the gold standard for reliability and performance.

The widest and most flexible chiller portfolio
- From the smallest mini chiller for residential use to the largest chiller for district cooling
- Tailor made solutions based on the most advanced technologies
- Wide range of options and accessories

Worldwide experience in chiller design and manufacturing
- World's most advanced facilities for air conditioning research and development: the Applied Development Center in Minneapolis, Minnesota
- Inhouse development and manufacturing of chiller main components (compressors, fans, condenser coils, software, etc...)
- Chillers produced in European factories, in Milan and Ostend

The highest efficiency for every installation
- Inverter technology over the whole capacity range
- The lowest total cost of ownership and fast payback time

Quality and reliability
- Daikin's integrated zero defect policy ensures quality of components and finished products
- Each Daikin chiller is factory run-tested and subjected to quality audit before shipment

Benefits for installers
- Plug & play solutions
- Maximum serviceability
- Ideal solutions for retrofit projects

Benefits for consultants
- Energy efficient solutions without compromising on reliability and performance
- Latest technology embedded in all our products

Benefits for end users
- Remarkable savings on running costs
- Easy to customise the chiller to your application, environment and need thanks to more than 150 different options.

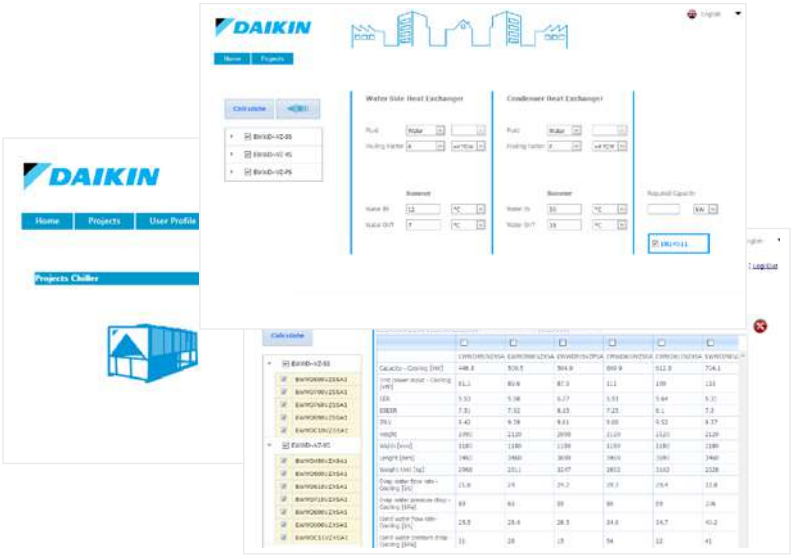
Web-based chiller selection software

A user-friendly interface allows users to quickly create new projects, open and change exisiting projects or simply do a quick selection.

Technical selection reports can be printed or downloaded in several formats.

To make life easier, the tool is accessible everywhere, via any device. No matter where you are, projects can be consulted.

Create now a new account on:
http://tools.daikinapplied.eu/

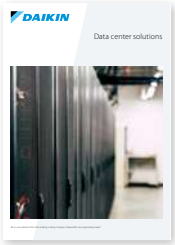




EWYE-CZ - Air to Water Inverter Heat Pump



Water to Water Modular Heat Pumps



Data center solutions

Supporting tools

Business portal

- Experience our extranet that thinks with you at **my.daikin.eu**
- Find information in seconds via a powerful search
- Customise the options so you see only info relevant for you
- Access via mobile device or desktop

Website

- **www.daikin.eu/en_us/product-group/chillers.html**
- **https://catalogues.daikin.eu/#**
- Explore our product range
- Find our solutions for applications
- Get more commercial details on our flagship products

Literature

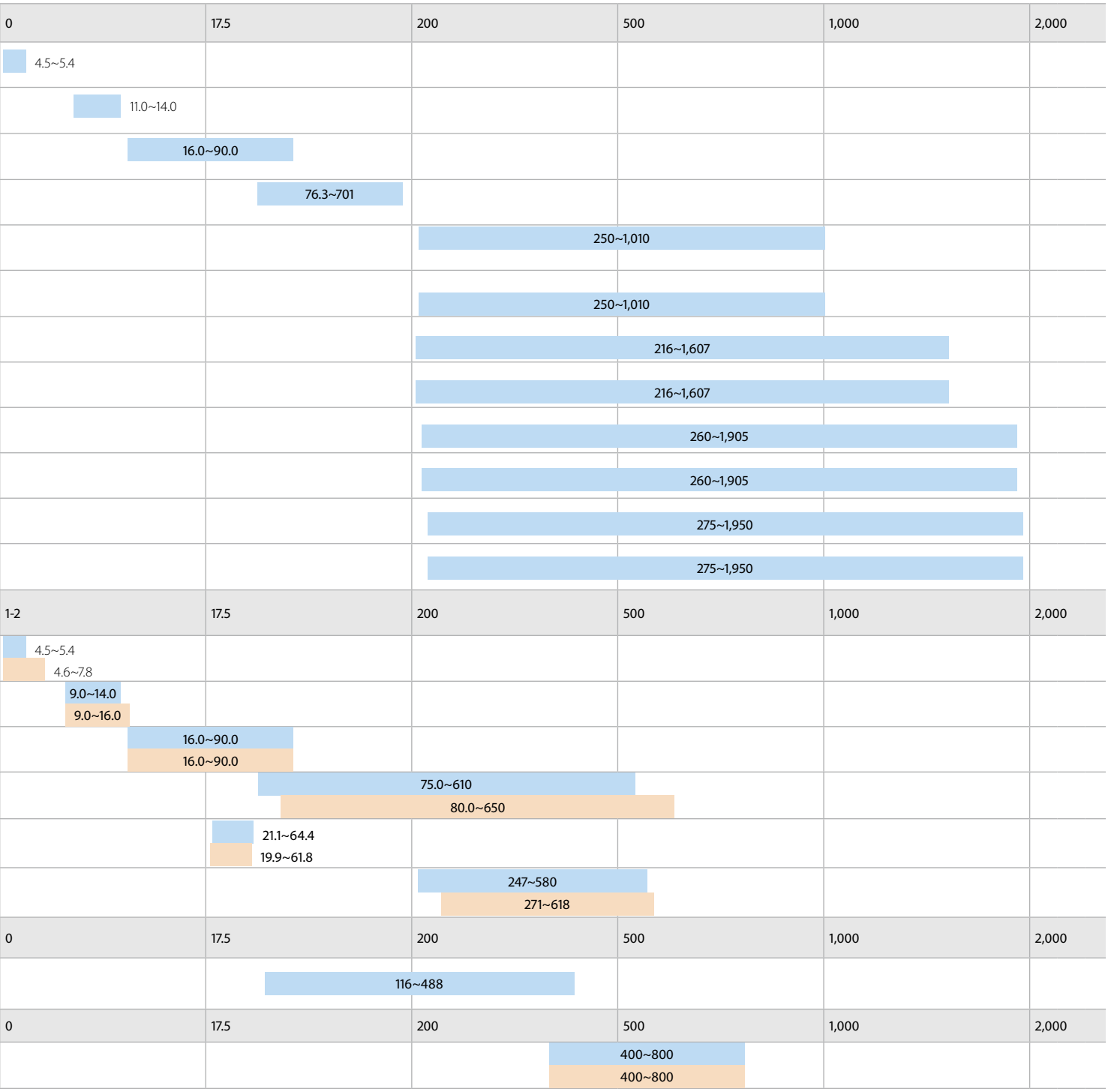
- Download or consult our literature for our professional network and end-customers

Products overview

		Refrigerant type *	Refrigerant circuits	Inverter	Free cooling	Compressor			Water heat exchanger		Efficiency version				Sound version		
						Swing	Scroll	Screw	Plate **	Single pass shell and tube	Blue	Silver	Gold	Platinum	Standard	Low	Reduced
Cooling only																	
EWAA-DV3P		R-32	1	•		•			• BPHE			•			•		
EWAA-DV3P-H/ DW1P-H		R-32	1	•		•			• BPHE			•			•		
EWAT~CZN/P/H		R-32	1-2	•			•		• BPHE			•			•		
EWAT-B B		R-32	1-2				•		•			•	•		•	•	•
EWAT-B C		R32	1-2				•		•			•	•		•		•
EWFT-B C		R32	1-2		•		•		•			•	•		•		•
EWAH-TZ D		R32	1-2	•				•	•	•	•	•	•	•	•		•
EWFH-TZ D		R1234ze(E)	1-2	•	•			•	•	•	•	•	•	•	•		
EWAS-TZ D		R1234ze(E)	1-2	•				•	•	•	•	•	•	•	•		•
EWFS-TZ D		R513A	1-2	•	•			•	•	•	•	•	•	•	•		
EWAD-TZ D		R513A	1-2	•				•	•	•	•	•	•	•	•		•
EWFD-TZ D		R134a	1-2	•	•			•	•	•	•	•	•	•	•		
Heat pump																	
EWYA-DV3P		R-32	1	•		•			• BPHE			•			•		
EWYA-DV3P-H/ DW1P-H		R-32	1	•		•			• BPHE			•			•		
EWYT~CZN/P/H		R-32	1-2	•			•		• BPHE			•			•		
EWYT-B		R-32	1-2				•		• BPHE			•	•		•	•	•
EWYT-CZI EWYT-CZO		R-32	1-2	•			•		• BPHE			•			•		
EWYD~BZ		R-134a	2-3	•				•		•		•			•	•	
Condensing unit																	
ERAD~E-		R-134a	1					•				•			•	•	
Multipurpose unit																	
EWYS-4Z		R-513A	2	•				•		•					•		•

* (GWP): R-410A (2,087.5), R-134a (1,430) - ** BPHE: Brazed plate heat exchanger

Cooling capacity (kW)
Heating capacity (kW)

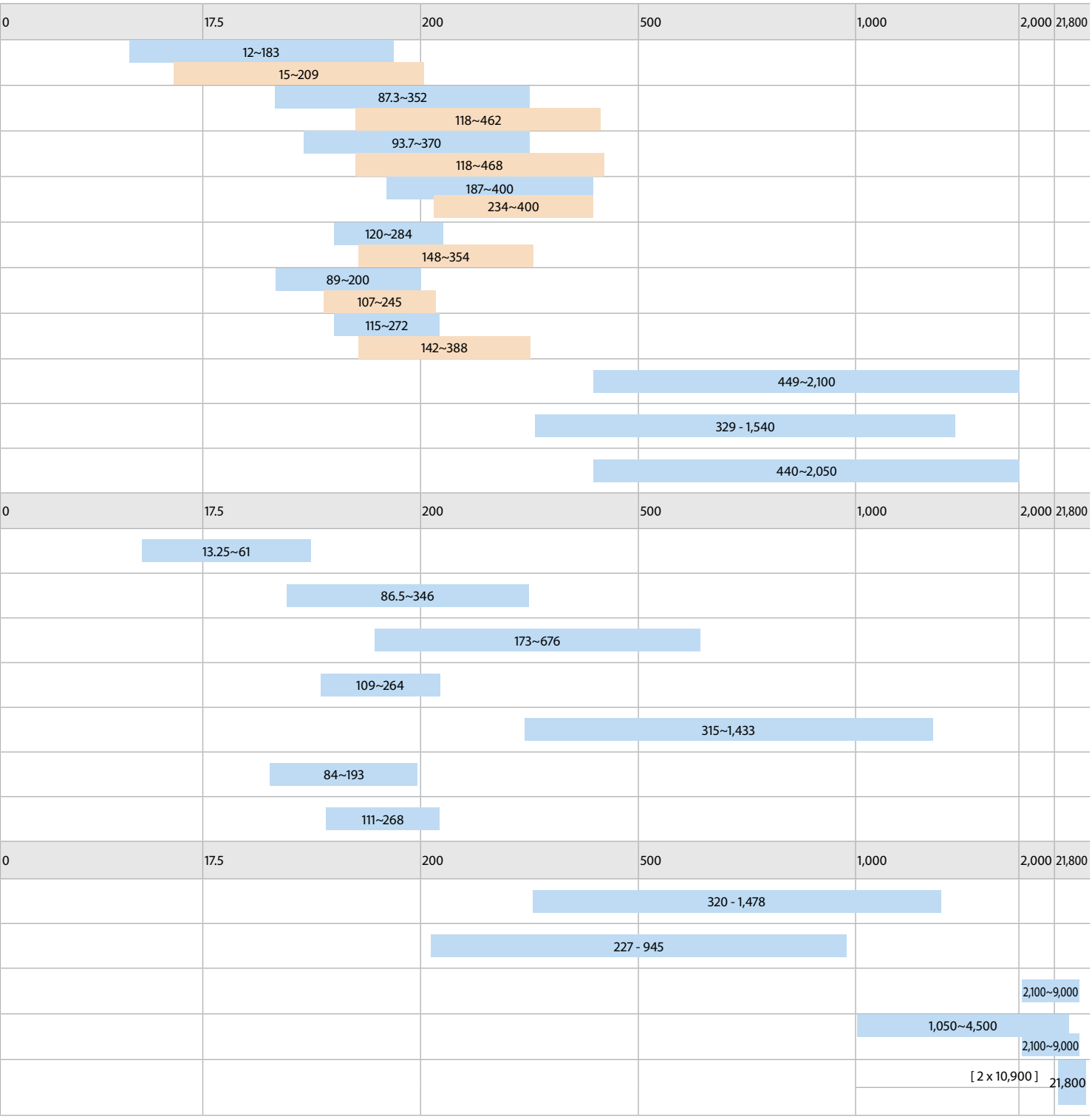


Products overview

		Refrigerant Type *	Refrigerant circuits	Inverter	Compressor			Water heat exchanger			Efficiency version			Sound version
					Scroll	Screw	Centrifugal	Plate **	Single pass shell and tube	Shell and tube	Standard	High	Premium	Standard
Water cooled chillers (Cooling only and Heat Pump)														
EWWQ-KCW1N		R-410a	1-2		•			•			•			•
EWHQ~G-		R-410A	1		•			•			•			•
EWWQ~G-		R-410A	1		•			•			•			•
EWWQ~L-		R-410A	2		•			•			•			•
EWWD~J-		R-134a	1			•		•			•			•
EWWH-J-		R1234ze	1			•		•			•			•
EWWS-J-		R-513A	1			•		•			•			•
EWWD-VZ		R-134a	1-2	•		•				Flooded	•	•	•	•
EWWH-VZ		R-1234ze(E)	1-2	•		•				Flooded	•	•	•	•
EWWS-VZ		R-513A	1-2	•		•				Flooded	•	•	•	•
Condenserless chillers														
EWLQ-KCW1N		R-410A	1-2		•			BPHE			•			•
EWLQ~G-		R-410A	1		•			•			•			•
EWLQ~L-		R-410A	2		•			•			•			•
EWLD~J-		R-134a	1			•		•			•			•
EWLD~I-		R-134a	1-2-3			•			•		•			•
EWLH-J-		R1234ze	1			•		•			•			•
EWLS-J-		R-513A	1			•		•			•			•
Water cooled centrifugal chillers														
EWWD-DZ		R-134a	1				•			•		•		•
EWWH-DZ		R-1234ze(E)	1				•			•		•		•
DWDC B		R-134a and R513A	1	optional			•			Flooded		•		•
DWSC C / DWDC C		R-134a, R-513A and R-1234ze	1	optional			•			Flooded		•		•
6,000 RT CENTRIFUGAL		R-134a	2 per chiller				•		Flooded			•		•

* (GWP): R-410A (2,087.5), R-134a (1,430), R-407C (1,773.9) - ** BPHE: Brazed plate heat exchanger

Cooling capacity (kW)
Heating capacity (kW)





INVERTER

BLUEVOLUTION

Air cooled mini inverter chiller

- Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
- Inverter chiller
- Hermetically sealed swing inverter compressor
- New casing for the outdoor units
- Separate MMI-2 controller for indoor installation



EW(A-Y)A004-008DV3P_R

EWAA-DV3P

Cooling Only				EWAA-D	004DV3P	006DV3P	008DV3P	011DV3P	014DV3P	016DV3P
Space cooling	A Condition 35°C	Pdc		kW		-		11.6	12.8	14.0
	ηs,c			%		-		229	226	221
SEER						-		5.79(6)	5.71(6)	5.59(6)
Cooling capacity	Nom.			kW	4.86(1)/4.52(2)	5.83(1)/5.09(2)	6.18(1)/5.44(2)	11.6(4)/11.5(5)	12.8(4)/12.7(5)	14.0(4)/15.3(5)
Power input	Cooling	Nom.		kW	0.820(1)/1.36(2)	1.08(1)/1.55(2)	1.19(1)/1.73(2)	3.56(4)/2.17(5)	4.06(4)/2.51(5)	4.58(4)/3.24(5)
	Heating	Nom.		kW	0.840(1)/1.26(2)	1.24(1)/1.69(2)	1.63(1)/2.23(2)	-		
Capacity control	Method				Variable (inverter)					
EER					5.91(1)/3.32(2)	5.40(1)/3.28(2)	5.19(1)/3.14(2)	3.26(4)/5.31(5)	3.16(4)/5.04(5)	3.06(4)/4.74(5)
Dimensions	Unit	Height		mm	770			870		
		Width		mm	1,250			1,380		
		Depth		mm	362			460		
Weight	Unit			kg	88.0			147		
Water heat exchanger	Type				Plate heat exchanger					
	Water volume			l	1			2		
Air heat exchanger	Type				-			High efficiency fin and tube type with integral subcooler		
Compressor	Type				Hermetically sealed swing compressor			Hermetically sealed swing inverter compressor		
	Quantity				1					
Fan	Type				Propeller fan					
	Quantity				1					
	Air flow rate	Cooling	Nom.	m^3/min	-			70	85	
Sound power level	Cooling	Nom.		dBA	61.0(1)	62.0(1)		67.0	69.0	
Sound pressure level	Cooling	Nom.		dBA	48.0(1)	49.0(1)	50.0(1)	47.7	50.8	51.0
Operation range	Air side	Cooling	Min.~Max.	°CDB	10(3)~43			10~43		
Refrigerant	Type/GWP				R-32/675.0					
	Charge			kg	1.35			-		
	Control				-			Electronic expansion valve		
	Circuits	Quantity			-			1		
Refrigerant charge	Per circuit			kg	-			3.80		
Unit	Running current	Max		A	-			30.8		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/230 +/-10%			1~/50/230		

(1) Condition 1: cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | (2) Condition 2: cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) | (3) For more details, see operation range drawing | (4) Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (5) Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | (6) According to EN14825 | Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) | Depends on operation mode, refer to installation manual.

Air cooled mini inverter chiller

- Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
- Inverter chiller
- Hermetically sealed swing inverter compressor
- New casing for the outdoor units
- Separate MMI-2 controller for indoor installation



Inverter technology

Swing compressor

EWAA-EWYA-D_R

EWAA-DW1P

Cooling Only					EWAA	011DW1P	014DW1P	016DW1P
Space cooling	A Condition 35°C	Pdc			kW	11.6	12.8	14.0
	ηs,c				%	229	226	221
SEER						5.79(3)	5.71(3)	5.59(3)
Cooling capacity	Nom.				kW	11.6(1)/11.5(2)	12.8(1)/12.7(2)	14.0(1)/15.3(2)
Power input	Cooling	Nom.			kW	3.56(1)/2.17(2)	4.06(1)/2.51(2)	4.58(1)/3.24(2)
Capacity control	Method					Variable (inverte-r)		
EER						3.26(1)/5.31(2)	3.16(1)/5.04(2)	3.06(1)/4.74(2)
Dimensions	Unit	Height			mm	870		
		Width			mm	1,380		
		Depth			mm	460		
Weight	Unit				kg	147		
Water heat exchanger	Type					Plate heat exchanger		
	Water volume				l	2		
Air heat exchanger	Type					High efficiency fin and tube type with integral subcooler		
Compressor	Type					Hermetically sealed swing inverter compressor		
	Quantity					1		
Fan	Type					Propeller fan		
	Quantity					1		
	Air flow rate	Cooling	Nom.		m^3/min	70	85	
Sound power level	Cooling	Nom.			dBA	67.0	69.0	
Sound pressure level	Cooling	Nom.			dBA	47.7	50.8	51.0
Operation range	Air side	Cooling	Min.~Max.		°CDB	10~43		
	Water side	Cooling	Min.~Max.		°CDB	5~22		
Refrigerant	Type/GWP					R-32/675.0		
	Control					Electronic expansion valve		
	Circuits	Quantity				1		
Refrigerant charge	Per circuit				kg	3.80		
					TCO2Eq	2.6		
Unit	Running current	Max			A	14.0		
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400		

(1) Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (2) Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | (3) According to EN14825 | Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) | Depends on operation mode, refer to installation manual. | For more details, see operation range drawing

INVERTER BLUEVOLUTION

Air cooled mini inverter chiller

- Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
- Inverter chiller
- Hermetically sealed swing inverter compressor
- New casing for the outdoor units
- Separate MMI-2 controller for indoor installation



EW(A-Y)A004-008DV3P-H_R

EWAA-DV3P-H

Cooling Only				EWAA-D	004DV3P-H	006DV3P-H	008DV3P-H	011DV3P-H-	014DV3P-H-	016DV3P-H-
Space cooling	A Condition 35°C	Pdc		kW		-		11.6	12.8	14.0
		ηs,c		%		-		229	226	221
SEER						-		5.79(6)	5.71(6)	5.59(6)
Cooling capacity	Nom.			kW	4.86(1)/4.52(2)	5.83(1)/5.09(2)	6.18(1)/5.44(2)	11.6(4)/11.5(5)	12.8(4)/12.7(5)	14.0(4)/15.3(5)
Power input	Cooling	Nom.		kW	0.820(1)/1.36(2)	1.08(1)/1.55(2)	1.19(1)/1.73(2)	3.56(4)/2.17(5)	4.06(4)/2.51(5)	4.58(4)/3.24(5)
	Heating	Nom.		kW	0.840(1)/1.26(2)	1.24(1)/1.69(2)	1.63(1)/2.23(2)		-	
Capacity control	Method						Variable (inverter)			
EER					5.91(1)/3.32(2)	5.40(1)/3.28(2)	5.19(1)/3.14(2)	3.26(4)/5.31(5)	3.16(4)/5.04(5)	3.06(4)/4.74(5)
Dimensions	Unit	Height		mm		770			870	
		Width		mm		1,250			1,380	
		Depth		mm		362			460	
Weight	Unit			kg		88.0			147	
Water heat exchanger	Type						Plate heat exchanger			
	Water volume			l		1			2	
Air heat exchanger	Type					-			High efficiency fin and tube type with integral subcooler	
Compressor	Type					Hermetically sealed swing compressor			Hermetically sealed swing inverter compressor	
	Quantity						1			
Fan	Type						Propeller fan			
	Quantity						1			
	Air flow rate	Cooling	Nom.	m^3/min		-		70	85	
Sound power level	Cooling	Nom.		dBA	61.0(1)	62.0(1)		67.0	69.0	
Sound pressure level	Cooling	Nom.		dBA	48.0(1)	49.0(1)	50.0(1)	47.7	50.8	51.0
Operation range	Air side	Cooling	Min.~Max.	°CDB		10(3)~43			10~43	
Refrigerant	Type/GWP						R-32/675.0			
	Charge			kg		1.35			-	
	Control					-			Electronic expansion valve	
	Circuits	Quantity				-			1	
Refrigerant charge	Per circuit			kg		-			3.80	
Unit	Running current	Max		A		-			30.8	
Power supply	Phase/Frequency/Voltage			Hz/V		1~/50/230 +/-10%			1~/50/230	

(1) Condition 1: cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | (2) Condition 2: cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) | (3) For more details, see operation range drawing | (4) Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (5) Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | (6) According to EN14825 | Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) | Depends on operation mode, refer to installation manual.

Air cooled mini inverter chiller

- Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
- Inverter chiller
- Hermetically sealed swing inverter compressor
- New casing for the outdoor units
- Separate MMI-2 controller for indoor installation



Inverter technology

Swing compressor

EWAA-EWYA-D_R

EWAA-DW1P-H

Cooling Only					EWAA	011DW1P-H-	014DW1P-H-	016DW1P-H-
Space cooling	A Condition 35°C	Pdc			kW	11.6	12.8	14.0
	ηs,c				%	229	226	221
SEER						5.79(3)	5.71(3)	5.59(3)
Cooling capacity	Nom.				kW	11.6(1)/11.5(2)	12.8(1)/12.7(2)	14.0(1)/15.3(2)
Power input	Cooling	Nom.			kW	3.56(1)/2.17(2)	4.06(1)/2.51(2)	4.58(1)/3.24(2)
Capacity control	Method					Variable (inverter)		
EER						3.26 (1)/5.31 (2)	3.16 (1)/5.04 (2)	3.06 (1)/4.74 (2)
Dimensions	Unit	Height			mm	870		
		Width			mm	1,380		
		Depth			mm	460		
Weight	Unit				kg	147		
Water heat exchanger	Type					Plate heat exchanger		
	Water volume				l	2		
Air heat exchanger	Type					High efficiency fin and tube type with integral subcooler		
Compressor	Type					Hermetically sealed swing inverter compressor		
	Quantity					1		
Fan	Type					Propeller fan		
	Quantity					1		
	Air flow rate	Cooling	Nom.		m^3/min	70	85	
Sound power level	Cooling	Nom.			dBA	67.0	69.0	
Sound pressure level	Cooling	Nom.			dBA	47.7	50.8	51.0
Operation range	Air side	Cooling	Min.~Max.		°CDB	10~43		
	Water side	Cooling	Min.~Max.		°CDB	5~22		
Refrigerant	Type/GWP					R-32/675.0		
	Control					Electronic expansion valve		
	Circuits	Quantity				1		
Refrigerant charge	Per circuit				kg	3.80		
					TCO2Eq	2.6		
Unit	Running current	Max			A	14.0		
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400		

(1) Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (2) Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | (3) According to EN14825 | Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) | Depends on operation mode, refer to installation manual. | For more details, see operation range drawing

INVERTER

Air cooled scroll inverter chiller

- Inverter chiller
- High part load efficiency for low running cost
- Minimal starting currents
- No buffertank required for standard applications
- Daikin scroll compressor
- Wide operation range
- Integrated hydronic module on request



EWAT-CZ_R

EWAT-CZN

Cooling Only				EWAT	016CZN-A1	021CZN-A1	025CZN-A1	032CZN-A1	040CZN-A1	040CZN-A2	050CZN-A2	064CZN-A2	090CZN-A2
Space cooling	A Condition Pdc 35°C			kW	15.9	20.9	25.6	32.4	39.6	41.4	50.8	64.0	88.3
	ηs,c			%	197		200	205	201	213	210	205	198
SEER					5.00		5.06	5.21	5.09	5.41	5.33	5.21	5.03
Cooling capacity	Nom.			kW	15.9	20.9	25.6	32.4	39.6	41.4	50.8	64.0	88.3
Power input	Cooling	Nom.		kW	5.50	6.60	8.50	10.3	13.4	13.2	17.0	21.8	31.0
Capacity control	Method				Inverter controlled								
	Minimum capacity			%	18	14	12	19	15	14	12	15	14
EER					2.90	3.16	3.00	3.13	2.95	3.12	2.98	2.93	2.84
IPLV					5.83	6.29	6.05	6.25	5.87	6.37	5.92	5.88	5.61
Dimensions	Unit	Height		mm	1,878								
		Width		mm	1,152			1,752		2,306		2,906	3,506
		Depth		mm	802					814			
Weight	Unit			kg	222	245		340	339	480		574	672
	Operation weight			kg	223	247		343	342	486		580	680
Water heat exchanger	Type				Braze plate heat exchanger								
	Water volume			l	1	2				5			8
	Water flow rate	Cooling	Nom.	l/s	0.8	1.0	1.2	1.6	1.9	2.0	2.4	3.1	4.2
	Water pressure drop	Cooling	Nom.	kPa	20	11	16	19	28	10	14	22	20
Air heat exchanger	Type				High efficiency fin and tube type – Copper Aluminum								
Compressor	Type				Scroll compressor								
	Quantity				1					2			
Fan	Type				Axial								
	Quantity				1			2				3	4
	Speed			rpm	800		900	700	900	700	900	800	900
Sound power level	Cooling	Nom.		dBA	76.0		78.0	79.0	80.0		81.0	83.0	85.0
Sound pressure level	Cooling	Nom.		dBA	59.7		61.7	62.2	63.2	62.8	63.8	65.4	67.0
Refrigerant	Type/GWP				R-32/675								
	Charge			kg	3.00	5.50		7.00	8.00	12.0		13.0	16.0
	Circuits	Quantity			1					2			
Piping connections	Evaporator water inlet/outlet (OD)				1"1/4					2"			

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) | According to EN14825 | Depends on operation mode, refer to installation manual. | For more details, see operation range drawing

Air cooled scroll inverter chiller

- Inverter chiller
- High part load efficiency for low running cost
- Minimal starting currents
- No buffertank required for standard applications
- Daikin scroll compressor
- Wide operation range
- Integrated hydronic module on request



EWAT-CZ_R

EWAT-CZP

Cooling Only				EWAT	016CZP-A1	021CZP-A1	025CZP-A1	032CZP-A1	040CZP-A1	040CZP-A2	050CZP-A2	064CZP-A2	090CZP-A2
Space cooling	A Condition Pdc 35°C			kW	16.0	21.0	25.7	32.6	39.8	41.6	51.0	64.3	88.6
	ηs,c			%	209	213		225	211	228	216	211	204
SEER					5.30	5.41		5.70	5.36	5.76	5.48	5.34	5.18
Cooling capacity	Nom.			kW	16.1	21.1	25.9	32.7	39.9	41.7	51.1	64.4	88.8
Power input	Cooling	Nom.		kW	5.45	6.56	8.48	10.3	13.3	13.2	16.9	21.9	31.1
Capacity control	Method				Inverter controlled								
	Minimum capacity			%	18	14	12	19	15	14	12	15	14
EER					2.96	3.22	3.05	3.18	3.00	3.17	3.03	2.95	2.85
IPLV					5.83	6.29	6.05	6.25	5.87	6.37	5.92	5.88	5.61
Dimensions	Unit	Height		mm	1,878								
		Width		mm	1,152			1,752		2,306		2,906	3,506
		Depth		mm	802					814			
Weight	Unit			kg	256	278		383	382	531		630	727
	Operation weight			kg	257	280		386	385	537		636	735
Water heat exchanger	Type				Braze plate heat exchanger								
	Water volume			l	1	2				5			8
	Water flow rate	Cooling	Nom.	l/s	0.8	1.0	1.2	1.6	1.9	2.0	2.4	3.1	4.2
	Water pressure drop	Cooling	Nom.	kPa	20	11	16	19	28	10	14	22	20
Air heat exchanger	Type				High efficiency fin and tube type – Copper Aluminum								
Compressor	Type				Scroll compressor								
	Quantity				1					2			
Fan	Type				Axial								
	Quantity				1			2				3	4
	Speed			rpm	800	900		700	900	700	900	800	900
Sound power level	Cooling	Nom.		dBA	76.0	78.0		79.0	80.0		81.0	-	
Sound pressure level	Cooling	Nom.		dBA	59.7	61.7		62.2	63.2	62.8	63.8	-	
Refrigerant	Type/GWP				R-32/675								
	Charge			kg	3.00	5.50		7.00	8.00	12.0		13.0	16.0
	Circuits	Quantity			1					2			
Piping connections	Evaporator water inlet/outlet (OD)				1"1/4					2"			

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) | According to EN14825 | Depends on operation mode, refer to installation manual. | For more details, see operation range drawing

INVERTER

Air cooled scroll inverter chiller

- Inverter chiller
- High part load efficiency for low running cost
- Minimal starting currents
- No buffertank required for standard applications
- Daikin scroll compressor
- Wide operation range
- Integrated hydronic module on request



EWAT-CZ_R

EWAT-CZH

Cooling Only				EWAT	016CZH-A1	021CZH-A1	025CZH-A1	032CZH-A1	040CZH-A1	040CZH-A2	050CZH-A2	064CZH-A2	090CZH-A2
Space cooling	A Condition 35°C	Pdc		kW	16.1	21.1	25.8	32.7	39.9	41.7	51.1	64.3	88.7
	ηs,c			%	205	210	211	224	210	227	213	208	202
Cooling capacity	Nom.			kW	16.2	21.2	25.9	32.8	40.1	41.8	51.3	64.5	88.9
Power input	Cooling	Nom.		kW	5.60	6.70	8.70	10.4	13.5	13.3	17.0	22.0	31.2
Capacity control	Method				Inverter controlled								
	Minimum capacity			%	18	14	12	19	15	14	12	15	14
EER					2.89	3.15	2.98	3.14	2.97	3.15	3.02	2.93	2.85
IPLV					5.83	6.29	6.05	6.25	5.87	6.37	5.92	5.88	5.61
Dimensions	Unit	Height		mm	1,878								
		Width		mm	1,152			1,752		2,306		2,906	3,506
		Depth		mm	802					814			
Weight	Unit			kg	256	278		383	382	531		630	727
	Operation weight			kg	257	280		386	385	537		636	735
Water heat exchanger	Type				Braze plate heat exchanger								
	Water volume			l	1	2				5			8
	Water flow rate	Cooling	Nom.	l/s	0.8	1.0	1.2	1.6	1.9	2.0	2.4	3.1	4.20
	Water pressure drop	Cooling	Nom.	kPa	20	11	16	19	28	10	14	22	20
Air heat exchanger	Type				High efficiency fin and tube type – Copper Aluminum								
Compressor	Type				Scroll compressor								
	Quantity				1					2			
Fan	Type				Axial								
	Quantity				1			2				3	4
	Speed			rpm	800	900		700	900	700	900	800	900
Sound power level	Cooling	Nom.		dBA	76.0	78.0		79.0	80.0		81.0	83.0	85.0
Sound pressure level	Cooling	Nom.		dBA	59.7	61.7		62.2	63.2	62.8	63.8	65.4	67.0
Refrigerant	Type/GWP				R-32/675								R-32/675.0
	Charge			kg	3.00	5.50		7.00	8.00	12.0		13.0	16.0
	Circuits	Quantity			1					2			
Piping connections	Evaporator water inlet/outlet (OD)				1"1/4					2"			

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) | According to EN14825 | Depends on operation mode, refer to installation manual. | For more details, see operation range drawing

Air cooled scroll inverter heat pump

- Inverter chiller
- High part load efficiency for low running cost
- Minimal starting currents
- No buffertank required for standard applications
- Daikin scroll compressor
- Wide operation range
- Integrated hydronic module on request
- Dedicated controller extension (EKRSCIOH) for Heating applications



Inverter technology

Scroll compressor

EWYT-CZ_R

EWYT-CZN

Heating & Cooling				EWYT	016CZN-A1	021CZN-A1	025CZN-A1	032CZN-A1	040CZN-A1	040CZN-A2	050CZN-A2	064CZN-A2	090CZN-A2
Space cooling	A Condition Pdc 35°C			kW	15.9	20.9	25.6	32.4	39.6	41.4	50.8	64.0	88.3
	ηs,c			%	197		200	205	201	213	210	205	198
SEER					5.00		5.06	5.21	5.09	5.41	5.33	5.21	5.03
Space heating	Average climate water outlet 35°C	General	SCOP		3.89	4.00	4.07	4.06	4.07	4.02	4.00	3.98	4.00
			Seasonal space heating eff. class		A++								
Cooling capacity	Nom.			kW	15.9	20.9	25.6	32.4	39.6	41.4	50.8	64.0	88.3
Heating capacity	Nom.			kW	15.9	20.2	24.8	32.4	39.4	40.3	49.8	61.9	85.8
Power input	Cooling	Nom.		kW	5.50	6.60	8.50	10.3	13.4	13.2	17.0	21.8	31.0
	Heating	Nom.		kW	4.70	5.80	7.50	9.40	11.8	11.9	15.4	19.1	27.2
Capacity control	Method				Inverter controlled								
	Minimum capacity			%	18	14	12	19	15	14	12	15	14
EER					2.90	3.16	3.00	3.13	2.95	3.12	2.98	2.93	2.84
COP					3.41	3.46	3.33	3.45	3.33	3.38	3.24	3.23	3.16
IPLV					5.83	6.29	6.05	6.25	5.87	6.37	5.92	5.88	5.61
Dimensions	Unit	Height		mm	1,878								
		Width		mm	1,152			1,752		2,306		2,906	3,506
		Depth		mm	802					814			
Weight	Unit			kg	227	252		350	349	494		588	693
	Operation weight			kg	228	254		353	352	500		594	701
Water heat exchanger	Type				Braze plate heat exchanger								
	Water volume			l	1	2				5			8
	Water flow rate	Cooling	Nom.	l/s	0.8	1.0	1.2	1.6	1.9	2.0	2.4	3.1	4.2
		Heating	Nom.	l/s	0.8	1.0	1.2	1.5	1.9		2.4	3.0	4.1
	Water pressure drop	Cooling	Nom.	kPa	20	11	16	19	28	10	14	22	20
		Heating	Nom.	kPa	19.6	10.6	15.4	19.1	27.1	9.4	13.8	20.4	19.1
Air heat exchanger	Type				High efficiency fin and tube type – Copper Aluminum								
Compressor	Type				Scroll compressor								
	Quantity				1					2			
Fan	Type				Axial								
	Quantity				1			2				3	4
	Speed			rpm	800		900	700	900	700	900	800	900
Sound power level	Cooling	Nom.		dBA	76.0		78.0	79.0	80.0		81.0	83.0	85.0
Sound pressure level	Cooling	Nom.		dBA	59.7		61.7	62.2	63.2	62.8	63.8	65.4	67.0
Refrigerant	Type/GWP				R-32/675								
	Charge			kg	3.00	5.50		7.00	8.00	12.0		13.0	16.0
	Circuits	Quantity			1					2			
Piping connections	Evaporator water inlet/outlet (OD)				1"1/4					2"			

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) | According to EN14825 | Depends on operation mode, refer to installation manual. | For more details, see operation range drawing

INVERTER

Air cooled scroll inverter heat pump

- Inverter chiller
- High part load efficiency for low running cost
- Minimal starting currents
- No buffertank required for standard applications
- Daikin scroll compressor
- Wide operation range
- Integrated hydronic module on request
- Dedicated controller extension (EKRSCIOH) for Heating applications



EWYT-CZ_R

EWYT-CZP

Heating & Cooling				EWYT	016CZP-A1	021CZP-A1	025CZP-A1	032CZP-A1	040CZP-A1	040CZP-A2	050CZP-A2	064CZP-A2	090CZP-A2
Space cooling	A Condition Pdc 35°C			kW	16.0	21.0	25.7	32.6	39.8	41.6	51.0	64.3	88.6
	ηs,c			%	209	213		225	211	228	216	211	204
SEER					5.30	5.41		5.70	5.36	5.76	5.48	5.34	5.18
Space heating	Average climate water outlet 35°C	General	SCOP		4.03	4.19		4.18		4.19	4.12	4.01	4.04
			Seasonal space heating eff. class		A++								
Cooling capacity	Nom.			kW	16.1	21.1	25.9	32.7	39.9	41.7	51.1	64.4	88.8
Heating capacity	Nom.			kW	15.6	19.9	24.6	32.1	39.0	40.0	49.5	61.4	85.3
Power input	Cooling	Nom.		kW	5.45	6.56	8.48	10.3	13.3	13.2	16.9	21.9	31.1
	Heating	Nom.		kW	4.63	5.81	7.42	9.32	11.7	11.8	15.3	19.2	27.3
Capacity control	Method				Inverter controlled								
	Minimum capacity			%	18	14	12	19	15	14	12	15	14
EER					2.96	3.22	3.05	3.18	3.00	3.17	3.03	2.95	2.85
COP					3.37	3.43	3.31	3.44	3.33	3.38	3.23	3.20	3.13
IPLV					5.83	6.29	6.05	6.25	5.87	6.37	5.92	5.88	5.61
Dimensions	Unit	Height		mm	1,878								
		Width		mm	1,152			1,752		2,306		2,906	3,506
		Depth		mm	802					814			
Weight	Unit			kg	261	286		393	392	546		644	749
	Operation weight			kg	262	288		396	395	551		650	757
Water heat exchanger	Type				Braze plate heat exchanger								
	Water volume			l	1	2				5			8
	Water flow rate	Cooling	Nom.	l/s	0.8	1.0	1.2	1.6	1.9	2.0	2.4	3.1	4.2
		Heating	Nom.	l/s	0.8	1.0	1.2	1.5	1.9		2.4	3.0	4.1
	Water pressure drop	Cooling	Nom.	kPa	20	11	16	19	28	10	14	22	20
		Heating	Nom.	kPa	19.6	10.6	15.4	19.1	27.1	9.4	13.8	20.4	19.1
Air heat exchanger	Type				High efficiency fin and tube type – Copper Aluminum								
Compressor	Type				Scroll compressor								
	Quantity				1					2			
Fan	Type				Axial								
	Quantity				1			2				3	4
	Speed			rpm	800	900		700	900	700	900	800	900
Sound power level	Cooling	Nom.		dBA	76.0	78.0		79.0	80.0		81.0	83.0	85.0
Sound pressure level	Cooling	Nom.		dBA	59.7	61.7		62.2	63.2	62.8	63.8	65.4	67.0
Refrigerant	Type/GWP				R-32/675								
	Charge			kg	3.00	5.50		7.00	8.00	12.0		13.0	16.0
	Circuits	Quantity			1					2			
Piping connections	Evaporator water inlet/outlet (OD)				1"1/4					2"			

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) | According to EN14825 | Depends on operation mode, refer to installation manual. | For more details, see operation range drawing

Air cooled scroll inverter heat pump

- Inverter chiller
- High part load efficiency for low running cost
- Minimal starting currents
- No buffertank required for standard applications
- Daikin scroll compressor
- Wide operation range
- Integrated hydronic module on request
- Dedicated controller extension (EKRSCIOH) for Heating applications



Inverter technology

Scroll compressor

EWYT-CZ_R

EWYT-CZH

Heating & Cooling				EWYT	016CZH-A1	021CZH-A1	025CZH-A1	032CZH-A1	040CZH-A1	040CZH-A2	050CZH-A2	064CZH-A2	090CZH-A2
Space cooling	A Condition 35°C			kW	16.1	21.1	25.8	32.7	39.9	41.7	51.1	64.3	88.7
	ηs,c			%	205	210	211	224	210	227	213	208	202
SEER					5.20	5.32	5.34	5.67	5.34	5.76	5.40	5.27	5.12
Space heating	Average climate water outlet 35°C	General	SCOP		3.88	4.06	4.08	4.11	4.13	4.14	4.09	3.94	4.00
			Seasonal space heating eff. class		A++								
Cooling capacity	Nom.			kW	16.2	21.2	25.9	32.8	40.1	41.8	51.3	64.5	88.9
Heating capacity	Nom.			kW	15.5	19.8	24.5	32.0	38.9	39.9	49.4	61.3	85.2
Power input	Cooling	Nom.		kW	5.60	6.70	8.70	10.4	13.5	13.3	17.0	22.0	31.2
	Heating	Nom.		kW	4.80	6.00	7.60	9.50	11.9	12.0	15.4	19.3	27.4
Capacity control	Method				Inverter controlled								
	Minimum capacity			%	18	14	12	19	15	14	12	15	14
EER					2.89	3.15	2.98	3.14	2.97	3.15	3.02	2.93	2.85
COP					3.24	3.31	3.22	3.37	3.28	3.33	3.20	3.17	3.12
IPLV					5.83	6.29	6.05	6.25	5.87	6.37	5.92	5.88	5.61
Dimensions	Unit	Height		mm	1,878								
		Width		mm	1,152			1,752		2,306		2,906	3,506
		Depth		mm	802					814			
Weight	Unit			kg	261	286		393	392	546		644	749
	Operation weight			kg	262	288		396	395	551		650	757
Water heat exchanger	Type				Braze plate heat exchanger								
	Water volume			l	1	2				5			8
	Water flow rate	Cooling	Nom.	l/s	0.8	1.0	1.2	1.6	1.9	2.0	2.4	3.1	4.2
		Heating	Nom.	l/s	0.8	1.0	1.2	1.5	1.9		2.4	3.0	4.1
	Water pressure drop	Cooling	Nom.	kPa	20	11	16	19	28	10	14	22	20
		Heating	Nom.	kPa	19.6	10.6	15.4	19.1	27.1	9.4	13.8	20.4	19.1
Air heat exchanger	Type				High efficiency fin and tube type – Copper Aluminum								
Compressor	Type				Scroll compressor								
	Quantity				1					2			
Fan	Type				Axial								
	Quantity				1			2				3	4
	Speed			rpm	800	900	700	900	700	900		800	900
Sound power level	Cooling	Nom.		dBA	76.0	78.0	79.0	80.0		81.0		83.0	85.0
Sound pressure level	Cooling	Nom.		dBA	59.7	61.7	62.2	63.2	62.8	63.8		65.4	67.0
Refrigerant	Type/GWP				R-32/675								
	Charge			kg	3.00	5.50		7.00	8.00	12.0		13.0	16.0
	Circuits	Quantity			1					2			
Piping connections	Evaporator water inlet/outlet (OD)				1"1/4					2"			

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) | According to EN14825 | Depends on operation mode, refer to installation manual. | For more details, see operation range drawing


DAIKIN


DAIKIN

Inverter screw cooling only with BLU efficiency. Standard sound.

- Environmentally conscious HFC134a – the most thermodynamically efficient refrigerant for air cooled applications
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,950 kW
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

					EWAD-TZBSD	275	320	345	400	470	510	525
SEER						4.517	4.637	4.636	4.829	4.809	4.561	4.73
Cooling capacity	Nom.			kW		274.8	316.9	346	418.5	467	512.6	520.7
Power input	Cooling	Nom.		kW		91.31	100.1	115.5	136.4	159.9	171	167.6
Capacity control	Method					Stepless						
	Minimum capacity			%		22	19	17	22	23	11	22
EER						3	3.2	3	3.1	2.9	3	3.1
IPLV						4.4	4.6		4.8		4.4	4.7
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		2,560	3,640				4,720	
Weight	Unit			kg		2,602	3,084		3,486		4,212	4,032
	Operation weight			kg		2,677	3,169		3,583.7	3,593.7	4,552	4,160.1
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					1					2	1
Fan	Type					Direct propeller						
	Quantity					4	6				8	
	Air flow rate	Cooling	Nom.	l/s		25,490	38,240				50,980	50,990
Sound power level	Cooling	Nom.		dBA		97	98	100	97		99	98
Sound pressure level	Cooling	Nom.		dBA		78		80	78	77	79	77
Operation range	Air side	Cooling	Min.~Max.	°CDB		5 ~46						
Refrigerant	Type/GWP					R-134a/1,430						
	Charge			kg		35	45		55	65	70	
	Circuits	Quantity				1					2	1
Piping connections	Evaporator water inlet/outlet (OD)					88.9mm			139.7mm		168.3mm	139.7mm
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		179.1	196.2	217.6	248.4	283.5	336.9	298.8
		Max		A		220	262	284	346	362	411	400
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

					EWAD-TZBSD	545	570	580	625	630	670	755
SEER						4.55	4.552	4.711	4.65	4.556	4.564	4.917
Cooling capacity	Nom.			kW		543.7	573.2	574.7	622.2	630.9	674	753.1
Power input	Cooling	Nom.		kW		188.4	206	198.2	230.6	216.2	242.8	231.7
Capacity control	Method					Stepless						
	Minimum capacity			%		10		19	17	10		13
EER						2.9	2.8	2.9	2.7	2.9	2.8	3.3
IPLV						4.4		4.7		4.5		4.9
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		4,720				5,800		6,880
Weight	Unit			kg		4,212		4,032		4,695		5,670
	Operation weight			kg		4,557	4,562	4,170.1	4,175.1	5,035	5,045	6,055
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2		1		2		
Fan	Type					Direct propeller						
	Quantity					8				10		12
	Air flow rate	Cooling	Nom.	l/s		50,980		50,990		63,730		76,480
Sound power level	Cooling	Nom.		dBA		99	100	98	101		102	99
Sound pressure level	Cooling	Nom.		dBA		79	80	78	80		82	78
Operation range	Air side	Cooling	Min.~Max.	°CDB		5 ~46						
Refrigerant	Type/GWP					R-134a/1,430						
	Charge			kg		75	80		85		95	105
	Circuits	Quantity				2		1		2		
Piping connections	Evaporator water inlet/outlet (OD)					168.3mm		139.7mm		168.3mm		
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		367.3	392.4	344.2	392.3	412.1	450	434.7
		Max		A		440	471	457	464	512	556	600
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						



MicroTech 4



EWAD_H_S-TZ-D

EWAD-TZBSD

					EWAD-TZBSD	830	915	C10	H10	H11	C12	C13
SEER						4.879	4.901	4.855	4.797	4.936	4.942	4.906
Cooling capacity	Nom.			kW		825.6	916.8	997.9	1,092	1,168	1,238	1,332
Power input	Cooling	Nom.		kW		267.5	298.4	347.8	369.7	387.5	409.9	447
Capacity control	Method					Stepless						
	Minimum capacity			%		11	13	11	10			
EER						3.1		2.9	3			
IPLV						4.8	4.9	4.8	4.9			4.8
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		6,880			7,960	9,040	10,120	11,200
Weight	Unit			kg		5,670	6,142		6,816	7,297	7,779	8,260
	Operation weight			kg		6,065	6,748	6,763	7,523	8,014	8,506	9,002
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2						
Fan	Type					Direct propeller						
	Quantity					12			14	16	18	20
	Air flow rate	Cooling	Nom.	l/s		76,480			89,230	101,980	114,720	127,460
Sound power level	Cooling	Nom.		dBA		100	99	100	101		102	104
Sound pressure level	Cooling	Nom.		dBA		79	78	79			80	81
Operation range	Air side	Cooling	Min.~Max.	°CDB		5 ~46						
Refrigerant	Type/GWP					R-134a/1,430						
	Charge			kg		115	125	140	150	160	170	185
	Circuits	Quantity				2						
Piping connections	Evaporator water inlet/outlet (OD)					168.3mm	219.1mm					
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		488.5	536.5	610.2	645.8	674.8	710.6	767.8
		Max		A		668		751	817	884	930	948
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

					EWAD-TZBSD	C14	C15	H16	H17	H18	H19
SEER						4.849	4.858	5.044	4.995	4.997	4.979
Cooling capacity	Nom.			kW		1,405	1,534	1,665	1,760	1,876	1,954
Power input	Cooling	Nom.		kW		494.1	531.7	546.3	608.6	659.1	730.3
Capacity control	Method					Stepless					
	Minimum capacity			%		10		13	12	11	10
EER						2.8	2.9	3	2.9	2.8	2.7
IPLV						4.7		5.3		5.2	
Dimensions	Unit	Height		mm		2,553					
		Width		mm		2,238					
		Depth		mm		11,200	12,280			13,360	
Weight	Unit			kg		8,581	9,920	10,323		10,805	
	Operation weight			kg		9,333	11,146	11,564	11,579	12,076	12,086
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					20	22			24	
	Air flow rate	Cooling	Nom.	l/s		127,460	140,210			152,960	
Sound power level	Cooling	Nom.		dBA		105	106	104	105	106	107
Sound pressure level	Cooling	Nom.		dBA		82	83	81	82	83	84
Operation range	Air side	Cooling	Min.~Max.	°CDB		5 ~46					
Refrigerant	Type/GWP					R-134a/1,430					
	Charge			kg		195	215	230	245	260	270
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm	273mm				
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		837.3	899.1	919.5	1,011	1,088	1,193
		Max		A		1,120	1,200	1,227	1,340	1,475	1,608
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

Inverter screw with SILVER efficiency. Standard sound.

- Environmentally conscious HFC134a – the most thermodynamically efficient refrigerant for air cooled applications
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,950 kW
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

					EWAD-TZSSD	285	325	380	430	495	520	535
SEER						5.551	5.737	5.636	5.741	5.434	5.281	5.659
Cooling capacity	Nom.			kW		283.6	327.3	360.3	426.8	490.9	522.4	530.6
Power input	Cooling	Nom.		kW		84.44	98.36	112.8	131	151.7	162.1	161
Capacity control	Method					Stepless						
	Minimum capacity			%		22	19	17	22	23	11	22
EER						3.4	3.3	3.2	3.3	3.2		3.3
IPLV						5.7	5.8	5.7	6	5.8	5.4	6
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		3,640	4,720				5,800	
Weight	Unit			kg		3,084	3,604		3,968	4,032	4,693	4,513
	Operation weight			kg		3,164	3,697	3,702	4,070.7	4,155.1	5,033	4,646.1
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					1					2	1
Fan	Type					Direct propeller						
	Quantity					6	8				10	
	Air flow rate	Cooling	Nom.	l/s		38,240	50,990				63,730	
Sound power level	Cooling	Nom.		dBA		98		100	98	97	99	98
Sound pressure level	Cooling	Nom.		dBA		78		80	77		79	77
Operation range	Air side	Cooling	Min.~Max.	°CDB		5 ~46					-20 ~46	5 ~46
Refrigerant	Type/GWP					R-134a/1,430						
	Charge			kg		40	45	50	60	65	70	75
	Circuits	Quantity				1					2	1
Piping connections	Evaporator water inlet/outlet (OD)					88.9mm			139.7mm		168.3mm	139.7mm
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		174.3	202.4	227.4	249.9	281.8	332.1	300.1
		Max		A		231	272	294	357	372	421	411
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

					EWAD-TZSSD	555	585	595	645	650	705	760
SEER						5.237	5.099	5.556	5.291	5.535	5.2	5.547
Cooling capacity	Nom.			kW		555.8	586.7	590	646.3	642.1	706.1	760.3
Power input	Cooling	Nom.		kW		177.6	194.1	188.4	202.9	218.2	235.4	225.2
Capacity control	Method					Stepless						
	Minimum capacity			%		10		19	10	17	10	13
EER						3.1	3	3.1	3.2	2.9	3	3.4
IPLV						5.3	5.2	5.8	5.4	5.6	5.3	6
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		5,800			6,880	5,800	6,880	7,960
Weight	Unit			kg		4,693		4,513	5,177	4,513	5,177	6,151
	Operation weight			kg		5,038	5,043	4,651.1	5,522	4,661.1	5,527	6,536
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2		1	2	1	2	
Fan	Type					Direct propeller						
	Quantity					10			12	10	12	14
	Air flow rate	Cooling	Nom.	l/s		63,730			76,480	63,730	76,480	89,230
Sound power level	Cooling	Nom.		dBA		99	101	98	101		103	99
Sound pressure level	Cooling	Nom.		dBA		79	80	78	80		82	78
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46		5 ~46	-20 ~46	5 ~46	-20 ~46	
Refrigerant	Type/GWP					R-134a/1,430						
	Charge			kg		75	80		90		95	105
	Circuits	Quantity				2		1	2	1	2	
Piping connections	Evaporator water inlet/outlet (OD)					168.3mm		139.7mm	168.3mm	139.7mm	168.3mm	
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		359.1	387.7	340.8	407	384.9	451.6	442.9
		Max		A		450	481	467	523	474	566	610
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						



MicroTech 4



EWAD_H_S-TZ-D

EWAD-TZSSD

					EWAD-TZSSD	835	960	C10	H10	H11	H12	H13
SEER						5.714	5.615	5.536	5.55	5.562	5.714	5.673
Cooling capacity	Nom.			kW		837.7	960.2	1,017	1,064	1,168	1,281	1,372
Power input	Cooling	Nom.		kW		258.7	301.2	332.2	351.6	384.5	412.6	451.9
Capacity control	Method					Stepless						
	Minimum capacity			%		11	12	11			10	
EER						3.2		3.1	3		3.1	3
IPLV						5.8	5.7	5.6			5.7	
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		7,960				9,040	11,200	12,280
Weight	Unit			kg		6,151	6,623		6,816	7,297	8,260	8,742
	Operation weight			kg		6,546	7,239	7,244	7,518	8,014	8,992	9,489
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2						
Fan	Type					Direct propeller						
	Quantity					14				16	20	22
	Air flow rate	Cooling	Nom.	l/s		89,230				101,908	127,460	140,210
Sound power level	Cooling	Nom.		dBA		100			101		102	104
Sound pressure level	Cooling	Nom.		dBA		79	78	79			80	81
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46						
Refrigerant	Type/GWP					R-134a/1,430						
	Charge			kg		115	135	140	145	160	175	190
	Circuits	Quantity				2						
Piping connections	Evaporator water inlet/outlet (OD)					168.3mm	219.1mm					
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		489.7	555	601.4	630.5	683.6	733.8	796.2
		Max		A		679	706	761	789	884	948	
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

					EWAD-TZSSD	H14	H15	H16	H17	H18	H19
SEER						5.529	5.707	5.633	5.608	5.527	5.445
Cooling capacity	Nom.			kW		1,482	1,562	1,665	1,787	1,876	1,954
Power input	Cooling	Nom.		kW		500.2	485.4	542.2	589.4	654.5	725.7
Capacity control	Method					Stepless					
	Minimum capacity			%		10	14	13	12	11	10
EER						3	3.2	3.1	3	2.9	2.7
IPLV						5.6	6.1	6	5.9	5.8	5.7
Dimensions	Unit	Height		mm		2,553					
		Width		mm		2,238					
		Depth		mm		12,280			13,360		
Weight	Unit			kg		9,920	10,323		10,805		
	Operation weight			kg		11,136	11,549	11,564	12,066	12,076	12,086
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					22			24		
	Air flow rate	Cooling	Nom.	l/s		140,210			152,960		
Sound power level	Cooling	Nom.		dBA		105	103	104	105	106	107
Sound pressure level	Cooling	Nom.		dBA		82	80	81	82	83	84
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-134a/1,430					
	Charge			kg		205	215	230	250	260	270
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)					273mm					
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		871.1	848	931.7	1,005	1,101	1,206
		Max		A		1,156	1,124	1,227	1,351	1,475	1,608
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

Inverter screw with GOLD efficiency. Standard sound.

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- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,950 kW
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

EWAD-TZXSD					295	345	380	440	515	525	565
SEER					5.605	6.007	5.961	6.165	6.019	6.002	6.251
Cooling capacity	Nom.			kW	294.4	344.4	378	434.8	507.9	524.3	560.5
Power input	Cooling	Nom.		kW	89.4	102.5	116.8	120.6	150	146.6	162
Capacity control	Method				Stepless						
	Minimum capacity			%	22	19	17	28	23	13	22
EER					3.3	3.4	3.2	3.6	3.4	3.6	3.5
IPLV					6	6.3	6.1	6.6	6.5	6.3	6.7
Dimensions	Unit	Height		mm	2,553						
		Width		mm	2,238						
		Depth		mm	3,640	4,720		5,800		6,880	
Weight	Unit			kg	3,255	3,775		4,569		5,348	5,136
	Operation weight			kg	3,335	3,868	3,873	4,687.1	4,697.1	5,673	5,287.3
Air heat exchanger	Type				Microchannel						
Compressor	Type				Screw compressor						
	Quantity				1					2	1
Fan	Type				Direct propeller						
	Quantity				6	8		10		12	
	Air flow rate	Cooling	Nom.	l/s	33,930	45,240		56,540		67,860	68,280
Sound power level	Cooling	Nom.		dBA	97	98	103	96	97	100	
Sound pressure level	Cooling	Nom.		dBA	80	82	83	75	76	79	76
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46						
Refrigerant	Type/GWP				R-134a/1,430						
	Charge			kg	40	45	50	60	70		75
	Circuits	Quantity			1					2	1
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm			139.7mm		168.3mm	139.7mm
Unit	Starting current	Max		A	0						
	Running current	Cooling	Nom.	A	188.5	216.8	235.8	247.6	291.7	319.1	316.3
		Max		A	224	261	289	314	342	389	404
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						

EWAD-TZXSD					565	610	635	670	705	725	760
SEER					5.937	5.999	6.146	5.891	5.552	5.94	5.308
Cooling capacity	Nom.			kW	565.9	610.7	629	668.1	701	724	757.3
Power input	Cooling	Nom.		kW	163.3	177	190.8	201.3	207.2	219.5	233.1
Capacity control	Method				Stepless						
	Minimum capacity			%	12	11	19	10	30	10	28
EER					3.5		3.3		3.4	3.3	3.2
IPLV					6.1	6.2	6.5	6.1	5.7	6.2	5.6
Dimensions	Unit	Height		mm	2,553						
		Width		mm	2,238						
		Depth		mm	6,880	7,960	6,880	7,960	6,880	7,960	6,880
Weight	Unit			kg	5,348	5,829	5,136	5,829	5,805	5,946	5,805
	Operation weight			kg	5,683	6,169	5,297.3	6,174	5,976.3	6,344	5,986.3
Air heat exchanger	Type				Microchannel						
Compressor	Type				Screw compressor						
	Quantity				2		1	2	1	2	1
Fan	Type				Direct propeller						
	Quantity				12	14	12	14	12	14	12
	Air flow rate	Cooling	Nom.	l/s	67,860	79,170	68,280	79,170	68,280	79,170	68,280
Sound power level	Cooling	Nom.		dBA	100	101	105	101	99	102	100
Sound pressure level	Cooling	Nom.		dBA	80	81	77	83	78	84	79
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46						
Refrigerant	Type/GWP				R-134a/1,430						
	Charge			kg	80	85		90	95	100	105
	Circuits	Quantity			2		1	2	1	2	1
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm		139.7mm	168.3mm	139.7mm	168.3mm	139.7mm
Unit	Starting current	Max		A	0						
	Running current	Cooling	Nom.	A	348.1	378.7	359.4	420.8	383.5	443	421.6
		Max		A	429	457	452	498	520	535	568
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						



MicroTech 4



EWAD_H_S-TZ-D

EWAD-TZXSD

					EWAD-TZXSD	805	880	950	C10	H10	H11	C12
SEER						6.088	6.355	6.192	6.365	6.186	6.313	6.217
Cooling capacity	Nom.			kW		802.3	877.7	949.4	993.6	1,062	1,129	1,194
Power input	Cooling	Nom.		kW		233.2	250.8	282.1	292.3	325.1	336.7	370.1
Capacity control	Method					Stepless						
	Minimum capacity			%		10	14	13	12	11		10
EER						3.4	3.5	3.4		3.3	3.4	3.2
IPLV						6.4	6.6	6.4	6.5	6.4	6.5	6.4
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		9,040			10,120		11,200	
Weight	Unit			kg		6,904	7,160		7,642		8,316	
	Operation weight			kg		7,495	7,761	7,771	8,258	8,268	9,028	9,038
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2						
Fan	Type					Direct propeller						
	Quantity					16			18		20	
	Air flow rate	Cooling	Nom.	l/s		90,480			101,780		113,080	
Sound power level	Cooling	Nom.		dBA		105	98	100	101	102	103	105
Sound pressure level	Cooling	Nom.		dBA		84	76	77		78		
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46						
Refrigerant	Type/GWP					R-134a/1,430						
	Charge			kg		110	120	130	135	145	155	165
	Circuits	Quantity				2						
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm						
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		470.4	496.7	543.6	565	613.9	637.5	687
		Max		A		573	626	683	720	782	744	803
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

					EWAD-TZXSD	H12	H13	H14	H15	H16	H17
SEER						6.126	6.14	5.896	5.807	5.723	5.629
Cooling capacity	Nom.			kW		1,286	1,359	1,454	1,567	1,671	1,770
Power input	Cooling	Nom.		kW		402.4	425.5	419.5	472.2	528.4	590.4
Capacity control	Method					Stepless					
	Minimum capacity			%		10		15	14	13	12
EER						3.2		3.5	3.3	3.2	3
IPLV						6.3		6.1	6.3	6.2	6
Dimensions	Unit	Height		mm		2,553					
		Width		mm		2,238					
		Depth		mm		11,200	12,280		13,360		
Weight	Unit			kg		8,316	9,655		10,805		
	Operation weight			kg		9,053	10,856	12,016	12,031	12,046	12,061
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					20	22		24		
	Air flow rate	Cooling	Nom.	l/s		113,080	124,390		135,700		
Sound power level	Cooling	Nom.		dBA		108	106	102	103	104	105
Sound pressure level	Cooling	Nom.		dBA		78	79		80	81	
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-134a/1,430					
	Charge			kg		180	190	200	215	230	245
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm	273mm				
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		737.2	777.9	774.1	852	934.8	1,026
		Max		A		851	899	997	1,103	1,217	1,330
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

Inverter screw with GOLD efficiency. Reduced sound.

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EWAD-TZXRD					295	345	380	440	515	525	565
SEER					5.507	5.938	5.866	6.042	5.901	6.037	6.159
Cooling capacity	Nom.			kW	290.7	340.9	373.4	431	502.3	518.8	555.4
Power input	Cooling	Nom.		kW	89.12	101.1	116.3	118.5	149.8	144.1	160.2
Capacity control	Method				Stepless						
	Minimum capacity			%	22	19	17	28	23	13	22
EER					3.3	3.4	3.2	3.6	3.4	3.6	3.5
IPLV					6.1	6.3	6.2	6.5		6.3	6.7
Dimensions	Unit	Height		mm	2,553						
		Width		mm	2,238						
		Depth		mm	3,640	4,720		5,800		6,880	
Weight	Unit			kg	3,375	3,895		4,689		5,468	5,256
	Operation weight			kg	3,455	3,988	3,993	4,807.1	4,817.1	5,793	5,407.3
Air heat exchanger	Type				Microchannel						
Compressor	Type				Screw compressor						
	Quantity				1					2	1
Fan	Type				Direct propeller						
	Quantity				6	8		10		12	
	Air flow rate	Cooling	Nom.	l/s	28,330	37,770		47,210		56,660	
Sound power level	Cooling	Nom.		dBA	87	88	92	88		90	
Sound pressure level	Cooling	Nom.		dBA	68		71	67	68	69	
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46						
Refrigerant	Type/GWP				R-134a/1,430						
	Charge			kg	40	45	50	60	70		75
	Circuits	Quantity			1					2	1
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm			139.7mm		168.3mm	139.7mm
Unit	Starting current	Max		A	0						
	Running current	Cooling	Nom.	A	193.6	221.9	241.5	252.5	299.5	326	323.5
		Max		A	224	261	289	314	342	389	404
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						

EWAD-TZXRD					565	610	635	670	705	725	760
SEER					5.944	6.029	6.039	5.922	5.418	5.964	5.358
Cooling capacity	Nom.			kW	559.5	604.2	622.3	660.4	691.7	714.9	745.6
Power input	Cooling	Nom.		kW	161.7	174.5	190.5	200.1	209.3	219.2	236.6
Capacity control	Method				Stepless						
	Minimum capacity			%	12	11	19	10	30	10	28
EER					3.5		3.3				3.2
IPLV					6.2		6.6	6.1	5.8	6.2	5.8
Dimensions	Unit	Height		mm	2,553						
		Width		mm	2,238						
		Depth		mm	6,880	7,960	6,880	7,960	6,880	7,960	6,880
Weight	Unit			kg	5,468	5,949	5,256	5,949	5,925	6,066	5,925
	Operation weight			kg	5,803	6,289	5,417.3	6,294	6,096.3	6,464	6,106.3
Air heat exchanger	Type				Microchannel						
Compressor	Type				Screw compressor						
	Quantity				2		1	2	1	2	1
Fan	Type				Direct propeller						
	Quantity				12	14	12	14	12	14	12
	Air flow rate	Cooling	Nom.	l/s	56,660	66,100	56,660	66,100	56,660	66,100	56,660
Sound power level	Cooling	Nom.		dBA	90	91	93	91	90	92	90
Sound pressure level	Cooling	Nom.		dBA	69		72	69	68	70	69
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46						
Refrigerant	Type/GWP				R-134a/1,430						
	Charge			kg	80	85		90	95	100	105
	Circuits	Quantity			2		1	2	1	2	1
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm		139.7mm	168.3mm	139.7mm	168.3mm	139.7mm
Unit	Starting current	Max		A	0						
	Running current	Cooling	Nom.	A	356.7	387.5	368.6	431.6	396.2	454.1	436.4
		Max		A	429	457	452	498	520	535	568
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						



MicroTech 4



EWAD_H_S-TZ-D

EWAD-TZXRD

					EWAD-TZXRD	805	880	950	C10	H10	H11	C12
SEER						6.169	6.363	6.179	6.354	6.217	6.34	6.191
Cooling capacity	Nom.			kW		792.9	867.7	937.7	982.6	1,049	1,117	1,179
Power input	Cooling	Nom.		kW		231.9	250.8	283.9	292.8	327.6	338	373.2
Capacity control	Method					Stepless						
	Minimum capacity			%		10	14	13	12	11		10
EER						3.4	3.5	3.3	3.4	3.2	3.3	3.2
IPLV						6.4	6.6	6.4	6.6	6.4	6.6	6.4
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		9,040			10,120		11,200	
Weight	Unit			kg		7,024	7,280		7,762		8,436	
	Operation weight			kg		7,615	7,881	7,891	8,378	8,388	9,148	9,158
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2						
Fan	Type					Direct propeller						
	Quantity					16			18		20	
	Air flow rate	Cooling	Nom.	l/s		75,540			84,980		94,420	
Sound power level	Cooling	Nom.		dBA		94	90	91	92		93	94
Sound pressure level	Cooling	Nom.		dBA		72	68	69		70		72
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46						
Refrigerant	Type/GWP					R-134a/1,430						
	Charge			kg		110	120	130	135	145	155	165
	Circuits	Quantity				2						
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm						
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		481.4	509.6	559.3	580.3	632.1	655.3	707.6
		Max		A		573	626	683	720	782	744	803
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

					EWAD-TZXRD	H12	H13	H14	H15	H16	H17
SEER						6.12	6.181	5.883	5.764	5.704	5.537
Cooling capacity	Nom.			kW		1,268	1,341	1,434	1,543	1,641	1,729
Power input	Cooling	Nom.		kW		408	430.2	424.5	480.3	539.4	603.9
Capacity control	Method					Stepless					
	Minimum capacity			%		10		15	14	13	12
EER						3.2	3.1	3.4	3.2	3	2.9
IPLV						6.4		6.1	5.9	6.2	5.8
Dimensions	Unit	Height		mm		2,553					
		Width		mm		2,238					
		Depth		mm		11,200	12,280	13,360			
Weight	Unit			kg		8,436	9,775	10,925			
	Operation weight			kg		9,173	10,976	12,136	12,151	12,166	12,181
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					20	22	24			
	Air flow rate	Cooling	Nom.	l/s		94,420	103,870	113,320			
Sound power level	Cooling	Nom.		dBA		96	95	93		94	
Sound pressure level	Cooling	Nom.		dBA		74	72	69	70		71
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-134a/1,430					
	Charge			kg		180	190	200	215	230	245
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm	273mm				
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		761.7	802.5	800.7	883.2	970.5	1,066
		Max		A		851	899	997	1,103	1,217	1,330
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

Inverter screw with PLATINUM efficiency. Standard sound.

- Environmentally conscious HFC134a – the most thermodynamically efficient refrigerant for air cooled applications
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,950 kW
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

					EWAD-TZPSD	285	330	370	405	450	490
SEER						6.29	6.465	6.389	6.687	6.64	6.567
Cooling capacity	Nom.			kW		285.8	330.4	367.9	401.5	447	486.1
Power input	Cooling	Nom.		kW		77.75	92.02	106	105.2	117.3	130.3
Capacity control	Method					Stepless					
	Minimum capacity			%		23	20	18	30	28	25
EER						3.7	3.6	3.5	3.8		3.7
IPLV						6.7		6.6	7.3	7.6	7.5
Dimensions	Unit	Height		mm		2,553					
		Width		mm		2,238					
		Depth		mm		4,720	5,800		6,880		
Weight	Unit			kg		3,775	4,256		5,050	5,136	
	Operation weight			kg		3,863	4,349	4,354	5,163.1	5,272.3	5,277.3
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					1					
Fan	Type					Direct propeller					
	Quantity					8	10		12		
	Air flow rate	Cooling	Nom.	l/s		45,240	56,540		67,850		
Sound power level	Cooling	Nom.		dBA		97	98	100	95	96	98
Sound pressure level	Cooling	Nom.		dBA		78	81	82	74	75	
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-134a/1,430					
	Charge			kg		40	45	50	55	60	65
	Circuits	Quantity				1					
Piping connections	Evaporator water inlet/outlet (OD)					88.9mm			139.7mm		
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		174	204	229	233	249	269
		Max		A		220	258	285	293	352	404
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

					EWAD-TZPSD	530	575	615	675	735
SEER						6.391	6.301	6.28	6.161	6.216
Cooling capacity	Nom.			kW		529.6	571.8	617.7	676.1	733.5
Power input	Cooling	Nom.		kW		143.1	158.6	171.1	194	210.7
Capacity control	Method					Stepless				
	Minimum capacity			%		13	12	11	10	
EER						3.7	3.6		3.5	
IPLV						6.7	6.6	6.5	6.4	6.5
Dimensions	Unit	Height		mm		2,553				
		Width		mm		2,238				
		Depth		mm		7,960		9,040		
Weight	Unit			kg		5,829		6,311		6,427
	Operation weight			kg		6,159	6,164	6,651	6,661	6,825
Air heat exchanger	Type					Microchannel				
Compressor	Type					Screw compressor				
	Quantity					2				
Fan	Type					Direct propeller				
	Quantity					14		16		
	Air flow rate	Cooling	Nom.	l/s		79,170		90,480		
Sound power level	Cooling	Nom.		dBA		100		101		102
Sound pressure level	Cooling	Nom.		dBA		79	80	81	83	
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46				
Refrigerant	Type/GWP					R-134a/1,430				
	Charge			kg		75	80	85	95	100
	Circuits	Quantity				2				
Piping connections	Evaporator water inlet/outlet (OD)					168.3mm				
Unit	Starting current	Max		A		0				
	Running current	Cooling	Nom.	A		318	345	374	414	442
		Max		A		399	429	468	508	535
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400				



MicroTech 4



EWAD_H_S-TZ-D

EWAD-TZPSD

					EWAD-TZPSD	810	890	960	C10	H10	H11
SEER						6.48	6.725	6.602	6.648	6.483	6.529
Cooling capacity	Nom.			kW		809.8	885.5	958.4	1,003	1,072	1,137
Power input	Cooling	Nom.		kW		226.1	242.4	271.7	281.9	312.5	325.9
Capacity control	Method					Stepless					
	Minimum capacity			%		10	14	13	12	11	
EER						3.6	3.7	3.5	3.6	3.4	3.5
IPLV						6.8	7	6.8	6.5	6.7	6.9
Dimensions	Unit	Height		mm		2,553					
		Width		mm		2,238					
		Depth		mm		10,120			11,200		12,280
Weight	Unit			kg		7,385	7,642		8,123		8,798
	Operation weight			kg		7,976	8,243	8,253	8,744	8,754	9,515
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					18			20		22
	Air flow rate	Cooling	Nom.	l/s		101,780			113,080		140,200
Sound power level	Cooling	Nom.		dBA		105	99	100	101	102	103
Sound pressure level	Cooling	Nom.		dBA		84	76		77		
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-134a/1,430					
	Charge			kg		110	120	130	140	150	160
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm					
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		466	490	534	555	601	627
		Max		A		573	616	672	709	761	796
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

					EWAD-TZPSD	C12	H12	H13	H14	H15
SEER						6.398	6.263	6.31	5.978	5.928
Cooling capacity	Nom.			kW		1,203	1,298	1,372	1,455	1,568
Power input	Cooling	Nom.		kW		357.4	387.4	409.1	409.5	462.1
Capacity control	Method					Stepless				
	Minimum capacity			%		10			15	14
EER						3.4			3.6	3.4
IPLV						6.7	6.6		6.2	6.5
Dimensions	Unit	Height		mm		2,553				
		Width		mm		2,238				
		Depth		mm		12,280		13,360		
Weight	Unit			kg		8,798	9,655	10,136	10,805	
	Operation weight			kg		9,520	10,846	11,337	12,021	12,036
Air heat exchanger	Type					Microchannel				
Compressor	Type					Screw compressor				
	Quantity					2				
Fan	Type					Direct propeller				
	Quantity					22		24		
	Air flow rate	Cooling	Nom.	l/s		140,200		152,940		
Sound power level	Cooling	Nom.		dBA		105	108	106	102	103
Sound pressure level	Cooling	Nom.		dBA		78		79		80
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46				
Refrigerant	Type/GWP					R-134a/1,430				
	Charge			kg		165	180	190	205	220
	Circuits	Quantity				2				
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm	273mm			
Unit	Starting current	Max		A		0				
	Running current	Cooling	Nom.	A		674	721	759		837
		Max		A		845	893	951	1,039	1,135
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400				

Inverter screw with PLATINUM efficiency. Reduced sound.

- Environmentally conscious HFC134a – the most thermodynamically efficient refrigerant for air cooled applications
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,950 kW
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

EWAD-TZPRD					285	330	370	405	450	490
SEER					6.232	6.448	6.358	6.622	6.542	6.467
Cooling capacity	Nom.			kW	283.7	328.4	365	398.8	443.9	482.4
Power input	Cooling	Nom.		kW	75.13	88.51	103.1	101	113.6	127.2
Capacity control	Method				Stepless					
	Minimum capacity			%	23	20	18	30	28	25
EER					3.8	3.7	3.5	4	3.9	3.8
IPLV					6.7	6.8	6.6	7.2	7.5	7.4
Dimensions	Unit	Height		mm	2,553					
		Width		mm	2,238					
		Depth		mm	4,720	5,800		6,880		
Weight	Unit			kg	3,895	4,376		5,170	5,256	
	Operation weight			kg	3,983	4,469	4,474	5,283.1	5,392.3	5,397.3
Air heat exchanger	Type				Microchannel					
Compressor	Type				Screw compressor					
	Quantity				1					
Fan	Type				Direct propeller					
	Quantity				8	10		12		
	Air flow rate	Cooling	Nom.	l/s	37,770	47,210		56,660		
Sound power level	Cooling	Nom.		dBA	88	89	90	88		89
Sound pressure level	Cooling	Nom.		dBA	68		69	67		68
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46					
Refrigerant	Type/GWP				R-134a/1,430					
	Charge			kg	40	45	50	55	60	65
	Circuits	Quantity			1					
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm			139.7mm		
Unit	Starting current	Max		A	0					
	Running current	Cooling	Nom.	A	176.6	207.4	232.7	236.3	253.2	273.8
		Max		A	220	258	285	293	352	404
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					

EWAD-TZPRD					530	575	615	675	735
SEER					6.421	6.322	6.325	6.183	6.254
Cooling capacity	Nom.			kW	524.8	566.5	612.5	669.9	726
Power input	Cooling	Nom.		kW	139	155.2	166.8	190.7	208.2
Capacity control	Method				Stepless				
	Minimum capacity			%	13	12	11	10	
EER					3.8	3.7		3.5	
IPLV					6.7	6.6	6.5	6.4	6.5
Dimensions	Unit	Height		mm	2,553				
		Width		mm	2,238				
		Depth		mm	7,960		9,040		
Weight	Unit			kg	5,949		6,431		6,547
	Operation weight			kg	6,279	6,284	6,771	6,781	6,945
Air heat exchanger	Type				Microchannel				
Compressor	Type				Screw compressor				
	Quantity				2				
Fan	Type				Direct propeller				
	Quantity				14		16		
	Air flow rate	Cooling	Nom.	l/s	66,100		75,540		
Sound power level	Cooling	Nom.		dBA	91				92
Sound pressure level	Cooling	Nom.		dBA	69				70
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46				
Refrigerant	Type/GWP				R-134a/1,430				
	Charge			kg	75	80	85	95	100
	Circuits	Quantity			2				
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm				
Unit	Starting current	Max		A	0				
	Running current	Cooling	Nom.	A	324.3	352.5	381.3	422.7	448
		Max		A	399	429	468	508	535
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400				



MicroTech 4



EWAD_H_S-TZ-D

EWAD-TZPRD

					EWAD-TZPRD	810	890	960	C10	H10	H11
SEER						6.51	6.771	6.598	6.661	6.515	6.683
Cooling capacity	Nom.			kW		801.7	876.7	948.2	993	1,061	1,126
Power input	Cooling	Nom.		kW		222.8	240.2	271.1	280	312.2	324.7
Capacity control	Method					Stepless					
	Minimum capacity			%		10	14	13	12	11	
EER						3.6		3.5		3.4	3.5
IPLV						6.8	7.1	6.9		6.7	7
Dimensions	Unit	Height		mm		2,553					
		Width		mm		2,238					
		Depth		mm		10,120			11,200		12,280
Weight	Unit			kg		7,505	7,762		8,243		8,918
	Operation weight			kg		8,096	8,363	8,373	8,864	8,874	9,635
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					18			20		22
	Air flow rate	Cooling	Nom.	l/s		84,980			94,420		103,870
Sound power level	Cooling	Nom.		dBA		94	90	91	92		93
Sound pressure level	Cooling	Nom.		dBA		72	68	69		70	
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-134a/1,430					
	Charge			kg		110	120	130	140	150	160
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm					
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		475.1	501.2	547.7	568.5	616.6	643
		Max		A		573	616	672	709	761	796
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

					EWAD-TZPRD	C12	H12	H13	H14	H15
SEER						6.555	6.433	6.432	6.055	5.932
Cooling capacity	Nom.			kW		1,190	1,282	1,356	1,435	1,544
Power input	Cooling	Nom.		kW		357.7	389.9	410.4	413.9	469.4
Capacity control	Method					Stepless				
	Minimum capacity			%		10			15	14
EER						3.3			3.5	3.3
IPLV						6.7		6.6	6.3	6.1
Dimensions	Unit	Height		mm		2,553				
		Width		mm		2,238				
		Depth		mm		12,280		13,360		
Weight	Unit			kg		8,918	9,775	10,256	10,925	
	Operation weight			kg		9,640	10,966	11,457	12,141	12,156
Air heat exchanger	Type					Microchannel				
Compressor	Type					Screw compressor				
	Quantity					2				
Fan	Type					Direct propeller				
	Quantity					22		24		
	Air flow rate	Cooling	Nom.	l/s		103,870		113,320		
Sound power level	Cooling	Nom.		dBA		95	96	95	93	
Sound pressure level	Cooling	Nom.		dBA		72	74	72	69	70
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46				
Refrigerant	Type/GWP					R-134a/1,430				
	Charge			kg		165	180	190	205	220
	Circuits	Quantity				2				
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm	273mm			
Unit	Starting current	Max		A		0				
	Running current	Cooling	Nom.	A		692.2	742.3	780.3	784.9	867
		Max		A		845	893	951	1,039	1,135
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400				

Inverter screw cooling only with BLU efficiency. Standard sound.

- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,600 kW
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
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- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

					EWAH-TZBSD	235	255	300	350	400	400	420
SEER						4.491	4.373	4.355	4.666	4.428	4.588	4.601
Cooling capacity	Nom.			kW		235.4	255.6	301.6	359.8	398.5		417.2
Power input	Cooling	Nom.		kW		79.49	92.42	118.2	117.9	140.7		151.4
Capacity control	Method					Stepless						
	Minimum capacity			%		19	17	14	23	12	20	19
EER						2.961	2.766	2.552	3.052	2.832		2.755
IPLV						4.484	4.419	4.369	4.683	4.411	4.584	4.558
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		2,560			3,640	4,720	3,640	
Weight	Unit			kg		2,559		2,589	3,486	3,751	3,486	
	Operation weight			kg		2,589	2,594	2,629	3,536	3,806	3,541	
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					1				2	1	
Fan	Type					Direct propeller						
	Quantity					4			6	8	6	
	Air flow rate	Cooling	Nom.	l/s		25,490	25,493		38,240	50,987	38,240	
Sound power level	Cooling	Nom.		dBA		97.5	99.8	101.2	96.7	97.5	97.6	97.7
Sound pressure level	Cooling	Nom.		dBA		78.41	80.65	82.11	76.96	77.19	77.88	78
Operation range	Air side	Cooling	Min.~Max.	°CDB		5 ~46						
Refrigerant	Type/GWP					R-1234(ze)/7						
	Charge			kg		30	35	40	50	55		
	Circuits	Quantity				1				2	1	
Piping connections	Evaporator water inlet/outlet (OD)					88.9mm			139.7mm			
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		159	181	219	221	255		271
		Max		A		204	227	268	291	334		355
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

					EWAH-TZBSD	425	455	485	505	545	545	590
SEER						4.571	4.593	4.603	4.565	4.557	4.595	4.568
Cooling capacity	Nom.			kW		425.2	448.8	487.5	500	537.5		576.1
Power input	Cooling	Nom.		kW		135.6	176.2	162	204.3	202.2		201.2
Capacity control	Method					Stepless						
	Minimum capacity			%		11	17	10	15		10	
EER						3.137	2.547	3.009	2.447	2.658		2.864
IPLV						4.407	4.537	4.451	4.523	4.492	4.462	4.402
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		4,720	3,640	4,720	3,640	4,720		5,800
Weight	Unit			kg		3,751	3,486	3,941	3,871	4,353	3,971	4,422
	Operation weight			kg		3,811	3,546	4,006	3,941	4,428	4,046	4,502
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2	1	2	1		2	
Fan	Type					Direct propeller						
	Quantity					8	6	8	6	8		10
	Air flow rate	Cooling	Nom.	l/s		50,987	38,240	50,987	38,240	50,990	50,987	63,733
Sound power level	Cooling	Nom.		dBA		100.4	100.3	100.6	101.9	103	102.8	103.9
Sound pressure level	Cooling	Nom.		dBA		80.12	80.61	80.29	82.2	82.7	82.53	83.21
Operation range	Air side	Cooling	Min.~Max.	°CDB		5 ~46						
Refrigerant	Type/GWP					R-1234(ze)/7						
	Charge			kg		60		65	70	75		80
	Circuits	Quantity				2	1	2	1		2	
Piping connections	Evaporator water inlet/outlet (OD)					139.7mm		168.3mm	139.7mm		168.3mm	
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		274	308	321		351		391
		Max		A		358	396	406	435	463	452	494
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						



MicroTech 4



EWAD_H_S-TZ-D

EWAH-TZBSD

					EWAH-TZBSD	635	745	785	845	900	985	C11
SEER						4.612	4.792	4.758	4.774	4.766	4.72	4.71
Cooling capacity	Nom.			kW		633.2	742.7	786.2	842.9	899	983.8	1,104
Power input	Cooling	Nom.		kW		226.9	238.6	261.4	287.6	302.2	350.9	391.1
Capacity control	Method					Stepless						
	Minimum capacity			%		10	12	11	10			
EER						2.791	3.113	3.007	2.931	2.974	2.804	2.823
IPLV						4.452	4.741	4.716	4.722	4.692	4.624	4.623
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		5,800	6,880			7,960		9,040
Weight	Unit			kg		4,452	5,370		5,614	6,096	6,185	7,352
	Operation weight			kg		4,537	5,470	5,480	5,729	6,221	6,320	7,507
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2						
Fan	Type					Direct propeller						
	Quantity					10	12			14		16
	Air flow rate	Cooling	Nom.	l/s		63,733	76,480			89,233		101,980
Sound power level	Cooling	Nom.		dBA		104.6	99.7	100.3	100.6	101.5	103.2	105.1
Sound pressure level	Cooling	Nom.		dBA		83.83	78.53	79.14	79.46	79.93	81.67	83.17
Operation range	Air side	Cooling	Min.~Max.	°CDB		5 ~46						
Refrigerant	Type/GWP					R-1234(ze)/7						
	Charge			kg		85	100	110	115	125	135	155
	Circuits	Quantity				2						
Piping connections	Evaporator water inlet/outlet (OD)						168.3mm		219.1mm			273mm
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		425	445	480	519	544	617	682
		Max		A		536	581	624	667	719	801	889
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

					EWAH-TZBSD	H11	C13	H13	H14	C15	H15
SEER						4.65	5.062	5.043	5.041	4.983	4.984
Cooling capacity	Nom.			kW		1,177	1,315	1,386	1,474	1,535	1,586
Power input	Cooling	Nom.		kW		436	423.5	471	508.7	563.3	580.5
Capacity control	Method					Stepless					
	Minimum capacity			%		10	12	11	10		
EER						2.699	3.105	2.943	2.898	2.725	2.732
IPLV						4.543	5.285	5.263	5.232	5.165	5.15
Dimensions	Unit	Height		mm		2,553					
		Width		mm		2,238					
		Depth		mm		9,040	10,120		11,200		12,280
Weight	Unit			kg		7,352	8,279		8,760		9,242
	Operation weight			kg		7,517	8,459	8,469	8,965	8,975	9,462
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					16	18		20		22
	Air flow rate	Cooling	Nom.	l/s		101,980	114,720		127,467		140,213
Sound power level	Cooling	Nom.		dBA		106.9	104.3	105.2	106.1	107	107.5
Sound pressure level	Cooling	Nom.		dBA		84.97	82.09	82.94	83.56	84.45	84.63
Operation range	Air side	Cooling	Min.~Max.	°CDB		5 ~46					
Refrigerant	Type/GWP					R-1234(ze)/7					
	Charge			kg		165	180	190	205	215	220
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)					273mm					
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		748	733	804	862	943	971
		Max		A		927	1,015	1,106	1,383	1,330	1,400
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

Inverter screw with SILVER efficiency. Standard sound.

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					EWAH-TZSSD	240	265	295	370	400	415	450
SEER						5.606	5.489	5.354	5.624	5.379	5.498	5.506
Cooling capacity	Nom.			kW		242.1	264.9	296.5	366.7	402.3	408.8	447.1
Power input	Cooling	Nom.		kW		75.33	86.23	98.15	112.9	121.5	133.5	144.5
Capacity control	Method					Stepless						
	Minimum capacity			%		19	17	15	23	12	20	19
EER						3.214	3.072	3.021	3.248	3.312	3.062	3.094
IPLV						5.624	5.53	5.387	5.92	5.48	5.755	5.738
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		3,640			4,720	5,800	4,720	
Weight	Unit			kg		3,041		3,071	3,968	4,233	3,968	4,032
	Operation weight			kg		3,076		3,111	4,018	4,288	4,023	4,092
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					1				2	1	
Fan	Type					Direct propeller						
	Quantity					6			8	10	8	
	Air flow rate	Cooling	Nom.	l/s		38,240			50,990	63,733	50,990	
Sound power level	Cooling	Nom.		dBA		97.9	100	102.3	97.1	97.8	98	98.1
Sound pressure level	Cooling	Nom.		dBA		78.18	80.27	82.57	76.87	77.09	77.71	77.82
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46						
Refrigerant	Type/GWP					R-1234(ze)/7						
	Charge			kg		35		40	50	55		60
	Circuits	Quantity				1				2	1	
Piping connections	Evaporator water inlet/outlet (OD)					88.9mm			139.7mm			
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		158.4	177.6	198.4	226.8	259.9	254	271.3
		Max		A		214	237	259	302	345	344	365
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

					EWAH-TZSSD	470	490	535	540	595	630	690
SEER						5.211	5.512	5.252	5.592	5.291	5.221	5.538
Cooling capacity	Nom.			kW		468.8	485.8	508.7	533.5	592.4	626.5	696.4
Power input	Cooling	Nom.		kW		149.2	166.9	162.3	183.6	188.6	206.3	214.1
Capacity control	Method					Stepless						
	Minimum capacity			%		10	17	10	15	10		13
EER						3.143	2.911	3.134	2.906	3.141	3.037	3.252
IPLV						5.317	5.593	5.351	5.607	5.392	5.316	5.64
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		5,800	4,720	5,800		6,880		
Weight	Unit			kg		4,233	4,032	4,422	4,834	4,934		5,370
	Operation weight			kg		4,298	4,097	4,492	4,909	5,014	5,019	5,465
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2	1	2	1	2		
Fan	Type					Direct propeller						
	Quantity					10	8	10		12		
	Air flow rate	Cooling	Nom.	l/s		63,733	50,990	63,733		76,480		
Sound power level	Cooling	Nom.		dBA		100.7	100.5	101.3	102.2	104.3	105.1	99
Sound pressure level	Cooling	Nom.		dBA		79.96	80.28	80.56	81.47	83.15	83.92	77.8
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46						
Refrigerant	Type/GWP					R-1234(ze)/7						
	Charge			kg		65		70	75	80	85	95
	Circuits	Quantity				2	1	2	1	2		
Piping connections	Evaporator water inlet/outlet (OD)					139.7mm		168.3mm	139.7mm	168.3mm		
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		309	304.8	332.2	334.3	381.9	412.4	425.7
		Max		A		405	406	428	455	495	526	538
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						



MicroTech 4



EWAD_H_S-TZ-D

EWAH-TZSSD

					EWAH-TZSSD	740	795	855	910	980	C10	C11
SEER						5.452	5.539	5.505	5.532		5.53	5.489
Cooling capacity	Nom.			kW		741.3	795.3	854.3	909.5	983.4	1,043	1,113
Power input	Cooling	Nom.		kW		236.7	254.1	278.9	294	322.6	341.1	365.2
Capacity control	Method					Stepless						
	Minimum capacity			%		11		10				
EER						3.132	3.13	3.063	3.094	3.048	3.058	3.046
IPLV						5.523	5.564	5.539	5.56	5.516	5.505	5.452
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		6,880	7,960		9,040	10,120	11,200	
Weight	Unit			kg		5,370	5,852	6,096	6,577	7,059	7,629	8,315
	Operation weight			kg		5,470	5,962	6,216	6,702	7,194	7,774	8,470
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2						
Fan	Type					Direct propeller						
	Quantity					12	14		16	18	20	
	Air flow rate	Cooling	Nom.	l/s		76,480	89,233		101,908	114,714	127,460	
Sound power level	Cooling	Nom.		dBA		99.7	100.5	100.8	101.6	103	104.1	104.8
Sound pressure level	Cooling	Nom.		dBA		78.52	78.95	79.25	79.73	80.8	81.53	82.27
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46						
Refrigerant	Type/GWP					R-1234(ze)/7						
	Charge			kg		100	110	120	125	135	145	155
	Circuits	Quantity				2						
Piping connections	Evaporator water inlet/outlet (OD)					168.3mm		219.1mm				273mm
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		456.1	483.2	520.7	547.3	594.5	627.5	665.5
		Max		A		581	634	677	729	802	852	891
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

					EWAH-TZSSD	C12	H12	H13	C14	C15	H15
SEER						5.339	5.735	5.652	5.723	5.774	5.686
Cooling capacity	Nom.			kW		1,211	1,331	1,406	1,492	1,542	1,606
Power input	Cooling	Nom.		kW		416.6	409.9	455.3	495.6	512.4	566.3
Capacity control	Method					Stepless					
	Minimum capacity			%		10	12	11		10	
EER						2.906	3.248	3.088	3.01	3.009	2.836
IPLV						5.254	6.207	5.994	6.078	6.09	5.956
Dimensions	Unit	Height		mm		2,553					
		Width		mm		2,238					
		Depth		mm		11,200			12,280	13,360	
Weight	Unit			kg		8,315	8,760		9,242	9,723	
	Operation weight			kg		8,485	8,945	8,955	9,447	9,938	9,948
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					20			22	24	
	Air flow rate	Cooling	Nom.	l/s		127,460			140,206	152,952	
Sound power level	Cooling	Nom.		dBA		107	104.4	105.2	106.2	107.1	107.5
Sound pressure level	Cooling	Nom.		dBA		84.42	81.86	82.7	83.33	83.98	84.4
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-1234(ze)/7					
	Charge			kg		170	185	195	205	215	225
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)					273mm					
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		741.8	732.3	799.8	862.2	893.4	973.3
		Max		A		948	1,025	1,117	1,393	1,351	1,410
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

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					EWAH-TZXSD	220	230	275	300	350	400
SEER						5.528	5.478	5.899	5.78	6.259	6.127
Cooling capacity	Nom.			kW		219.8	323.4	275.1	299.3	348.7	397.5
Power input	Cooling	Nom.		kW		67.79	74.71	82.02	92.55	99.59	122.1
Capacity control	Method					Stepless					
	Minimum capacity			%		22	20	18	16	25	22
EER						3.243	3.111	3.354	3.234	3.501	3.256
IPLV						6.035	5.988	6.156	6.085	6.684	6.588
Dimensions	Unit	Height		mm		2,553					
		Width		mm		2,238					
		Depth		mm		2,560		3,640		4,720	
Weight	Unit			kg		2,731		3,242		4,023	
	Operation weight			kg		2,761		3,277	3,282	4,068	4,078
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					1					
Fan	Type					Direct propeller					
	Quantity					4		6		8	
	Air flow rate	Cooling	Nom.	l/s		22,620		33,930		45,240	
Sound power level	Cooling	Nom.		dBA		97.3	97.5	100.2	100.8	97.3	99.8
Sound pressure level	Cooling	Nom.		dBA		78.13	78.36	80.42	81.11	77.01	79.55
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-1234(ze)/7					
	Charge			kg		30		35	40	45	55
	Circuits	Quantity				1					
Piping connections	Evaporator water inlet/outlet (OD)					88.9mm				139.7mm	
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		145.1	157.4	175.8	194.2	211.3	243.1
		Max		A		172	183	214	236	269	310
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

					EWAH-TZXSD	465	470	515	540	545	600
SEER						5.999	6.336	6.198	5.64	6.108	6.04
Cooling capacity	Nom.			kW		471.7	466	504.2	534.5	543.9	602.4
Power input	Cooling	Nom.		kW		135.2	139.9	159.8	152.6	155.1	178.4
Capacity control	Method					Stepless					
	Minimum capacity			%		10	19	17	30	10	
EER						3.488	3.331	3.156	3.503	3.508	3.376
IPLV						6.223	6.632	6.422	5.95	6.381	6.28
Dimensions	Unit	Height		mm		2,553					
		Width		mm		2,238					
		Depth		mm		6,880		5,800		6,880	
Weight	Unit			kg		4,886		4,569	5,323	5,105	5,157
	Operation weight			kg		4,951	4,634	4,639	5,398	5,180	5,242
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2		1		2	
Fan	Type					Direct propeller					
	Quantity					12		10		12	
	Air flow rate	Cooling	Nom.	l/s		67,860		56,540		67,860	
Sound power level	Cooling	Nom.		dBA		100.6	104.5	101.7	98.8	100.9	105.5
Sound pressure level	Cooling	Nom.		dBA		79.43	83.77	80.97	78.1	79.75	84.34
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-1234(ze)/7					
	Charge			kg		65		70	75		85
	Circuits	Quantity				2		1		2	
Piping connections	Evaporator water inlet/outlet (OD)					139.7mm				168.3mm	
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		299	276.8	306.6	296.2	334.4	375.7
		Max		A		364	357	394	414	406	448
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					



MicroTech 4



EWAD_H_S-TZ-D

EWAH-TZXSD

					EWAH-TZXSD	620	645	700	750	790	840
SEER						5.558	6.211	6.102	6.362	6.407	6.296
Cooling capacity	Nom.			kW		617	641.9	697.1	752.7	788.8	841.2
Power input	Cooling	Nom.		kW		191	186	209.1	219	225.9	249.4
Capacity control	Method					Stepless					
	Minimum capacity			%		25	14	13	12		11
EER						3.231	3.452	3.334	3.437	3.491	3.373
IPLV						5.741	6.446	6.347	6.608	6.64	6.479
Dimensions	Unit	Height		mm		2,553					
		Width		mm		2,238					
		Depth		mm		5,800	6,880		7,960	9,040	
Weight	Unit			kg		5,323	5,414		6,151	6,633	
	Operation weight			kg		5,408	5,504	5,509	6,256	6,743	6,748
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					1	2				
Fan	Type					Direct propeller					
	Quantity					10	12		14	16	
	Air flow rate	Cooling	Nom.	l/s		56,540	67,860		79,170	90,480	
Sound power level	Cooling	Nom.		dBA		100.5	98.1	100.1	100.9	101.5	102.8
Sound pressure level	Cooling	Nom.		dBA		79.81	76.91	78.9	79.3	79.61	80.92
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-1234(ze)/7					
	Charge			kg		85	90	95	105	110	115
	Circuits	Quantity				1	2				
Piping connections	Evaporator water inlet/outlet (OD)					139.7mm	168.3mm		219.1mm		
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		353.5	388.6	428.2	445.5	457.9	493.4
		Max		A		491	472	517	527	579	618
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

					EWAH-TZXSD	900	975	H10	H11	H12	H13
SEER						6.195	6.234	6.183	5.865	5.933	5.988
Cooling capacity	Nom.			kW		897.2	972.1	1,082	1,184	1,275	1,383
Power input	Cooling	Nom.		kW		273.7	299.9	326.1	346.2	380	415.3
Capacity control	Method					Stepless					
	Minimum capacity			%			10		14	13	12
EER						3.278	3.242	3.318	3.42	3.355	3.33
IPLV						6.36	6.383	6.42	6.367	6.514	6.481
Dimensions	Unit	Height		mm		2,553					
		Width		mm		2,238					
		Depth		mm		9,040	10,120	11,200		12,280	13,360
Weight	Unit			kg		6,722	7,203	8,091	8,760	9,242	9,723
	Operation weight			kg		6,847	7,338	8,241	8,925	9,417	9,913
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					16	18	20		22	24
	Air flow rate	Cooling	Nom.	l/s		90,480	101,772	113,080		124,388	135,696
Sound power level	Cooling	Nom.		dBA		105.1	106.8	104.7	102.7	103.6	104.5
Sound pressure level	Cooling	Nom.		dBA		83.2	84.61	82.17	80.14	80.78	81.43
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-1234(ze)/7					
	Charge			kg		125	135	150	165	175	190
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm		273mm			
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		530.6	575.7	623.9	651.9	708.1	768.7
		Max		A		655	702	787	902	992	1,090
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

Inverter screw with GOLD efficiency. Reduced sound.

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EWAH-TZXRD					220	230	275	300	350	400
SEER					5.404	5.363	5.942	5.775	6.188	6.026
Cooling capacity	Nom.			kW	216.3	228.3	271.7	295.3	345.2	393.5
Power input	Cooling	Nom.		kW	68.5	75.92	81.59	92.45	98.6	122.2
Capacity control	Method				Stepless					
	Minimum capacity			%	22	20	18	16	25	22
EER					3.157	3.007	3.33	3.194	3.501	3.219
IPLV					6.058	6.007	6.144	6.065	6.641	6.619
Dimensions	Unit	Height		mm	2,553					
		Width		mm	2,238					
		Depth		mm	2,680		3,760		4,840	
Weight	Unit			kg	2,851		3,362		4,143	
	Operation weight			kg	2,761		3,277	3,282	4,068	4,078
Air heat exchanger	Type				Microchannel					
Compressor	Type				Screw compressor					
	Quantity				1					
Fan	Type				Direct propeller					
	Quantity				4		6		8	
	Air flow rate	Cooling	Nom.	l/s	18,890		28,330		37,770	
Sound power level	Cooling	Nom.		dBA	86.7	86.9	89.3	89.9	87.9	89.4
Sound pressure level	Cooling	Nom.		dBA	67.62	67.78	69.6	70.14	67.59	69.17
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46					
Refrigerant	Type/GWP				R-1234(ze)/7					
	Charge			kg	30		35	40	45	55
	Circuits	Quantity			1					
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm				139.7mm	
Unit	Starting current	Max		A	0					
	Running current	Cooling	Nom.	A	150.2	163.3	180.6	199.6	216.9	249.8
		Max		A	172	183	214	236	269	310
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					

EWAH-TZXRD					465	470	515	540	545	600
SEER					6.02	6.284	6.103	5.588	6.133	6.042
Cooling capacity	Nom.			kW	467.2	461.6	497.8	528	537.6	594.3
Power input	Cooling	Nom.		kW	132.7	139.1	159.9	153.8	153.6	178.3
Capacity control	Method				Stepless					
	Minimum capacity			%	10	19	17	30	10	
EER					3.52	3.319	3.112	3.434	3.494	3.334
IPLV					6.273	6.667	6.49	5.796	6.414	6.301
Dimensions	Unit	Height		mm	2,553					
		Width		mm	2,238					
		Depth		mm	7,000		5,920		7,000	
Weight	Unit			kg	5,006		4,689	5,443	5,225	5,277
	Operation weight			kg	4,951	4,634	4,639	5,398	5,180	5,242
Air heat exchanger	Type				Microchannel					
Compressor	Type				Screw compressor					
	Quantity				2		1		2	
Fan	Type				Direct propeller					
	Quantity				12		10		12	
	Air flow rate	Cooling	Nom.	l/s	56,660		47,213		56,660	
Sound power level	Cooling	Nom.		dBA	90.5	93.3	91.1	89.2	90.8	94.2
Sound pressure level	Cooling	Nom.		dBA	69.38	72.53	70.32	68.42	69.59	73.07
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46					
Refrigerant	Type/GWP				R-1234(ze)/7					
	Charge			kg	65		70	75		85
	Circuits	Quantity			2		1		2	
Piping connections	Evaporator water inlet/outlet (OD)				139.7mm				168.3mm	
Unit	Starting current	Max		A	0					
	Running current	Cooling	Nom.	A	305.9	283.6	314.9	306.1	343.5	386.6
		Max		A	364	357	394	414	406	448
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					



MicroTech 4



EWAD_H_S-TZ-D

EWAH-TZXRD

					EWAH-TZXRD	620	645	700	750	790	840
SEER						5.467	6.207	6.095	6.392	6.417	6.318
Cooling capacity	Nom.			kW		607.1	632.8	687.3	743.4	780.8	831.9
Power input	Cooling	Nom.		kW		194.4	186.7	211.1	220	225.2	250.2
Capacity control	Method					Stepless					
	Minimum capacity			%		25	14	13	12		11
EER						3.123	3.389	3.255	3.379	3.467	3.325
IPLV						5.64	6.46	6.317	6.633	6.648	6.52
Dimensions	Unit	Height		mm		2,553					
		Width		mm		2,238					
		Depth		mm		5,920	7,000		8,080	9,160	
Weight	Unit			kg		5,443	5,534		6,271	6,753	
	Operation weight			kg		5,408	5,504	5,509	6,256	6,743	6,748
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					1	2				
Fan	Type					Direct propeller					
	Quantity					10	12		14	16	
	Air flow rate	Cooling	Nom.	l/s		47,213	56,660		66,098	75,540	
Sound power level	Cooling	Nom.		dBA		90.2	89.1	90.2	91	91.6	92.4
Sound pressure level	Cooling	Nom.		dBA		69.5	67.94	69.04	69.4	69.68	70.53
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-1234(ze)/7					
	Charge			kg		85	90	95	105	110	115
	Circuits	Quantity				1	2				
Piping connections	Evaporator water inlet/outlet (OD)					139.7mm	168.3mm		219.1mm		
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		366.7	401.1	433.8	454.5	470	507.6
		Max		A		491	472	517	527	579	618
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

					EWAH-TZXRD	900	975	H10	H11	H12	H13
SEER						6.216	6.252	6.226	5.875	5.942	5.987
Cooling capacity	Nom.			kW		886	959.8	1,066	1,167	1,257	1,363
Power input	Cooling	Nom.		kW		276	301.6	327.9	351.2	384.5	419.4
Capacity control	Method					Stepless					
	Minimum capacity			%			10		14	13	12
EER						3.21	3.182	3.251	3.323	3.268	3.251
IPLV						6.407	6.445	6.447	6.498	6.388	6.435
Dimensions	Unit	Height		mm		2,553					
		Width		mm		2,238					
		Depth		mm		9,160	10,240	11,320		12,400	13,480
Weight	Unit			kg		6,842	7,323	8,211	8,880	9,362	9,843
	Operation weight			kg		6,847	7,338	8,241	8,925	9,417	9,913
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					16	18	20		22	24
	Air flow rate	Cooling	Nom.	l/s		75,540	84,983	94,425		103,868	113,320
Sound power level	Cooling	Nom.		dBA		94.1	95.6	94.1	92.7	93.4	94.2
Sound pressure level	Cooling	Nom.		dBA		72.22	73.4	71.53	70.14	70.59	71.07
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-1234(ze)/7					
	Charge			kg		125	135	150	165	175	190
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm		273mm			
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		547.1	592.9	642.8	675.5	732.6	793.9
		Max		A		655	702	787	902	992	1,090
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

Inverter screw with PLATINUM efficiency. Standard sound.

- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,600 kW
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

					EWAH-TZPSD	225	265	295	340	395	420
SEER						6.234	6.353	6.334	6.977	6.709	6.849
Cooling capacity	Nom.				kW	227.3	266.6	293.6	336.7	392	421.5
Power input	Cooling	Nom.			kW	61.76	71.25	81.63	84.16	105.1	113.2
Capacity control	Method					Stepless					
	Minimum capacity				%	22	19	17	28	23	22
EER						3.6	3.618	3.499	3.853	3.651	3.612
IPLV						6.688	6.689	6.595	7.437	7.042	7.251
Dimensions	Unit	Height			mm	2,553					
		Width			mm	2,238					
		Depth			mm	3,640	4,720		5,800		6,880
Weight	Unit				kg	3,212	3,724		4,569		5,050
	Operation weight				kg	3,242	3,759	3,764	4,614	4,624	5,110
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					1					
Fan	Type					Direct propeller					
	Quantity					6	8		10		12
	Air flow rate	Cooling	Nom.		l/s	33,930	45,240		56,540		67,848
Sound power level	Cooling	Nom.			dBA	97.5	98.1	102.6	95.7	98.7	100.1
Sound pressure level	Cooling	Nom.			dBA	77.74	77.83	82.3	75	77.94	78.89
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~46					
Refrigerant	Type/GWP					R-1234(ze)/7					
	Charge				kg	30	35	40	45	55	60
	Circuits	Quantity				1					
Piping connections	Evaporator water inlet/outlet (OD)					88.9mm			139.7mm		
Unit	Starting current	Max			A	0					
	Running current	Cooling	Nom.		A	142.3	166.7	184.7	196.1	230.8	248
		Max			A	183	214	235	258	301	330
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400					

					EWAH-TZPSD	490	500	540	545	615
SEER						6.786	6.44	6.576	6.09	6.865
Cooling capacity	Nom.				kW	848.9	502.6	538.7	541.2	612.4
Power input	Cooling	Nom.			kW	133.4	132.3	141.6	143.6	156.8
Capacity control	Method					Stepless				
	Minimum capacity				%	19	10		30	15
EER						3.561	3.737	3.721	3.736	3.843
IPLV						7.093	6.797	6.932	6.385	7.155
Dimensions	Unit	Height			mm	2,553				
		Width			mm	2,238				
		Depth			mm	6,880		7,960	6,880	7,960
Weight	Unit				kg	5,136	5,157	5,639	5,805	6,151
	Operation weight				kg	5,201	5,227	5,714	5,880	6,236
Air heat exchanger	Type					Microchannel				
Compressor	Type					Screw compressor				
	Quantity					1	2		1	2
Fan	Type					Direct propeller				
	Quantity					12		14	12	14
	Air flow rate	Cooling	Nom.		l/s	67,848		79,170	67,848	79,170
Sound power level	Cooling	Nom.			dBA	104.6	100.6	100.9	99	96.6
Sound pressure level	Cooling	Nom.			dBA	83.39	79.43	79.35	77.82	75.06
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~46				
Refrigerant	Type/GWP					R-1234(ze)/7				
	Charge				kg	65	70	75		85
	Circuits	Quantity				1	2		1	2
Piping connections	Evaporator water inlet/outlet (OD)					139.7mm	168.3mm		139.7mm	219.1mm
Unit	Starting current	Max			A	0				
	Running current	Cooling	Nom.		A	278	298.6	322.3	290.8	347.4
		Max			A	367	375	406	425	432
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400				



MicroTech 4



EWAD_H_S-TZ-D

EWAH-TZPSD

					EWAH-TZPSD	645	700	770	845	900
SEER						6.816	6.672	6.656	6.712	6.595
Cooling capacity	Nom.			kW		640.9	697.3	768.3	847.6	901.3
Power input	Cooling	Nom.		kW		167.4	190.8	209.2	230.4	254.6
Capacity control	Method					Stepless				
	Minimum capacity			%		14	13	12	11	10
EER						3.782	3.642	3.648		3.528
IPLV						7.157	6.992	6.965	7.134	6.932
Dimensions	Unit	Height		mm		2,553				
		Width		mm		2,238				
		Depth		mm		7,960		9,040	10,120	
Weight	Unit			kg		6,151		6,722	7,256	
	Operation weight			kg		6,241	6,246	6,827	7,371	7,381
Air heat exchanger	Type					Microchannel				
Compressor	Type					Screw compressor				
	Quantity					2				
Fan	Type					Direct propeller				
	Quantity					14		16	18	
	Air flow rate	Cooling	Nom.	l/s		79,170		90,480	101,780	
Sound power level	Cooling	Nom.		dBA		97.5	99.3	101	102.3	104.2
Sound pressure level	Cooling	Nom.		dBA		75.95	77.76	79.04	80.05	81.92
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46				
Refrigerant	Type/GWP					R-1234(ze)/7				
	Charge			kg		90	95	105	115	125
	Circuits	Quantity				2				
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm				
Unit	Starting current	Max		A		0				
	Running current	Cooling	Nom.	A		365	403.1	437.5	473.2	507.8
		Max		A		458	505	558	609	647
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400				

					EWAH-TZPSD	960	C10	H10	H11	C12
SEER						6.596	6.52	6.564	6.262	6.327
Cooling capacity	Nom.			kW		958.2	1,006	1,068	1,163	1,216
Power input	Cooling	Nom.		kW		268.9	289.6	305.9	315.5	327.6
Capacity control	Method					Stepless				
	Minimum capacity			%		10			14	
EER						3.54	3.462	3.469	3.7	3.712
IPLV						6.912	6.746	6.815	6.562	7.068
Dimensions	Unit	Height		mm		2,553				
		Width		mm		2,238				
		Depth		mm		11,200		12,280		13,360
Weight	Unit			kg		8,050		8,573	9,242	9,723
	Operation weight			kg		8,180	8,190	8,723	9,402	9,893
Air heat exchanger	Type					Microchannel				
Compressor	Type					Screw compressor				
	Quantity					2				
Fan	Type					Direct propeller				
	Quantity					20		22		24
	Air flow rate	Cooling	Nom.	l/s		113,089		140,200		152,945
Sound power level	Cooling	Nom.		dBA		106.5	106.9	105.5	102.4	102.8
Sound pressure level	Cooling	Nom.		dBA		83.96	84.32	82.67	79.52	79.71
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46				
Refrigerant	Type/GWP					R-1234(ze)/7				
	Charge			kg		130	140	150	160	170
	Circuits	Quantity				2				
Piping connections	Evaporator water inlet/outlet (OD)					273mm				
Unit	Starting current	Max		A		0				
	Running current	Cooling	Nom.	A		539.6	569.4	603	612	638.1
		Max		A		694	731	779	875	923
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400				

Inverter screw with PLATINUM efficiency. Reduced sound.

- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,600 kW
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

EWAH-TZPRD					225	265	295	340	395	420
SEER					6.176	6.335	6.289	7.018	6.627	6.824
Cooling capacity	Nom.			kW	225.2	264.6	291.2	333.9	389.2	419.1
Power input	Cooling	Nom.		kW	61.76	71.25	81.63	84.16	105.1	113.2
Capacity control	Method				Stepless					
	Minimum capacity			%	22	19	17	28	23	22
EER					3.647	3.713	3.567	3.967	3.705	3.703
IPLV					6.699	6.688	6.583	7.472	7.129	7.273
Dimensions	Unit	Height		mm	2,553					
		Width		mm	2,238					
		Depth		mm	3,760	4,840		5,920		7,000
Weight	Unit			kg	3,332	3,844		4,689		5,170
	Operation weight			kg	3,242	3,759	3,764	4,614	4,624	5,110
Air heat exchanger	Type				Microchannel					
Compressor	Type				Screw compressor					
	Quantity				1					
Fan	Type				Direct propeller					
	Quantity				6	8		10		12
	Air flow rate	Cooling	Nom.	l/s	28,330	37,770		47,213		56,660
Sound power level	Cooling	Nom.		dBA	87.5	88.3	91.5	87.6	89.1	90.2
Sound pressure level	Cooling	Nom.		dBA	67.73	68.06	71.23	66.88	68.33	69.04
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46					
Refrigerant	Type/GWP				R-1234(ze)/7					
	Charge			kg	30	35	40	45	55	60
	Circuits	Quantity			1					
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm			139.7mm		
Unit	Starting current	Max		A	0					
	Running current	Cooling	Nom.	A	145.5	169.8	188.1	199.8	235.9	252.3
		Max		A	183	214	235	258	301	330
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					

EWAH-TZPRD					490	500	540	545	615
SEER					6.728	6.458	6.426	6.091	6.484
Cooling capacity	Nom.			kW	481.2	497.4	533.5	536.5	604.9
Power input	Cooling	Nom.		kW	133.4	132.3	141.6	143.6	156.8
Capacity control	Method				Stepless				
	Minimum capacity			%	19	10		30	15
EER					3.606	3.76	3.768	3.736	3.858
IPLV					7.127	6.826	6.955	6.407	7.285
Dimensions	Unit	Height		mm	2,553				
		Width		mm	2,238				
		Depth		mm	7,000		8,080	7,000	8,080
Weight	Unit			kg	5,256	5,277	5,759	5,925	6,271
	Operation weight			kg	5,201	5,227	5,714	5,880	6,236
Air heat exchanger	Type				Microchannel				
Compressor	Type				Screw compressor				
	Quantity				1	2		1	2
Fan	Type				Direct propeller				
	Quantity				12		14	12	14
	Air flow rate	Cooling	Nom.	l/s	56,660		66,098	56,660	66,098
Sound power level	Cooling	Nom.		dBA	93.4	90.5	91	89.6	88.9
Sound pressure level	Cooling	Nom.		dBA	72.28	69.38	69.43	68.42	67.29
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46				
Refrigerant	Type/GWP				R-1234(ze)/7				
	Charge			kg	65	70	75		85
	Circuits	Quantity			1	2		1	2
Piping connections	Evaporator water inlet/outlet (OD)				139.7mm	168.3mm		139.7mm	219.1mm
Unit	Starting current	Max		A	0				
	Running current	Cooling	Nom.	A	283.4	305.9	329.8	298.5	355.9
		Max		A	367	375	406	425	432
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400				



MicroTech 4



EWAD_H_S-TZ-D

EWAH-TZPRD

					EWAH-TZPRD	645	700	770	845	900
SEER						6.833	6.649	6.674	6.722	6.613
Cooling capacity	Nom.			kW		633.1	689	760.6	839.9	892.3
Power input	Cooling	Nom.		kW		167.4	190.8	209.2	230.4	254.6
Capacity control	Method					Stepless				
	Minimum capacity			%		14	13	12	11	10
EER						3.783	3.612	3.636	3.646	3.504
IPLV						7.162	7.001	6.458	7.118	6.974
Dimensions	Unit	Height		mm		2,553				
		Width		mm		2,238				
		Depth		mm		8,080		9,160	10,240	
Weight	Unit			kg		6,271		6,842	7,376	
	Operation weight			kg		6,241	6,246	6,827	7,371	7,381
Air heat exchanger	Type					Microchannel				
Compressor	Type					Screw compressor				
	Quantity					2				
Fan	Type					Direct propeller				
	Quantity					14		16	18	
	Air flow rate	Cooling	Nom.	l/s		66,098		75,540	84,983	
Sound power level	Cooling	Nom.		dBA		89.2	90.1	91.2	92.3	93.5
Sound pressure level	Cooling	Nom.		dBA		67.65	68.52	69.33	70.02	71.3
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46				
Refrigerant	Type/GWP					R-1234(ze)/7				
	Charge			kg		90	95	105	115	125
	Circuits	Quantity				2				
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm				
Unit	Starting current	Max		A		0				
	Running current	Cooling	Nom.	A		374.4	414.8	449.1	484.8	521.2
		Max		A		458	505	558	609	647
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400				

					EWAH-TZPRD	960	C10	H10	H11	C12
SEER						6.665	6.53	6.577	6.262	6.255
Cooling capacity	Nom.			kW		949.1	994.9	1,056	1,150	1,204
Power input	Cooling	Nom.		kW		268.9	289.6	305.9	315.5	327.6
Capacity control	Method					Stepless				
	Minimum capacity			%		10		14		
EER						3.53	3.435	3.452	3.644	3.675
IPLV						6.918	6.794	6.863	6.451	6.947
Dimensions	Unit	Height		mm		2,553				
		Width		mm		2,238				
		Depth		mm		11,320		12,400		13,480
Weight	Unit			kg		8,170		8,693	9,362	9,843
	Operation weight			kg		8,180	8,190	8,723	9,402	9,893
Air heat exchanger	Type					Microchannel				
Compressor	Type					Screw compressor				
	Quantity					2				
Fan	Type					Direct propeller				
	Quantity					20		22		24
	Air flow rate	Cooling	Nom.	l/s		94,425		103,868		113,320
Sound power level	Cooling	Nom.		dBA		95.4	95.7	94.8	92.6	93.1
Sound pressure level	Cooling	Nom.		dBA		72.9	73.2	71.92	69.81	69.96
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46				
Refrigerant	Type/GWP					R-1234(ze)/7				
	Charge			kg		130	140	150	160	170
	Circuits	Quantity				2				
Piping connections	Evaporator water inlet/outlet (OD)					273mm				
Unit	Starting current	Max		A		0				
	Running current	Cooling	Nom.	A		552.9	584.1	617.4	631.3	656.9
		Max		A		694	731	779	875	923
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400				

Inverter screw cooling only with BLU efficiency. Standard sound.

- Refrigerant R-513A
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,850 kW
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

					EWAS-TZBSD	275	320	345	400	470	525
SEER						4.3	4.4			4.6	
Cooling capacity	Nom.			kW		258.8	310.6	338.2	405.8	451.2	505.5
Power input	Cooling			kW		97.8	106.4	122.7	145.2	170.8	178.3
Capacity control	Method					Stepless					
	Minimum capacity			%		22	19	17	22	23	22
EER						2.646	2.919	2.756	2.795	2.642	2.835
IPLV						4.3	4.5	4.4	4.7	4.6	
Dimensions	Unit	Height		mm		2,553					
		Width		mm		2,238					
		Depth		mm		2,560	3,640				4,720
Weight	Unit			kg		2,602	3,084		3,486		4,032
	Operation weight			kg		2,677	3,169		3,583.7	3,593.7	4,160.1
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					1					
Fan	Type					Direct propeller					
	Quantity					4	6				8
	Air flow rate	Cooling	Nom.	l/s		25,490	38,235				50,990
Sound power level	Cooling	Nom.		dBA		97.4	97.9	100	97.3	96.7	97.7
Sound pressure level	Cooling	Nom.		dBA		78.3	78.2	80.3	77.6	77	77.4
Operation range	Air side	Cooling	Min.~Max.	°CDB		5 ~42					
Refrigerant	Type/GWP					R-513A/630					
	Charge			kg		35	45		55	65	70
	Circuits	Quantity				1					
Piping connections	Evaporator water inlet/outlet (OD)					88.9mm			139.7mm		
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		190.1	207.1	228.7	262	300.2	315.2
		Max		A		220	262	284	346	362	400
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

					EWAS-TZBSD	580	625	755	830	915
SEER						4.7	4.6			4.7
Cooling capacity	Nom.			kW		554.9	597.4	734	800.1	884.2
Power input	Cooling			kW		210.4	244.8	246.3	284.8	319.3
Capacity control	Method					Stepless				
	Minimum capacity			%		19	17	13	11	13
EER						2.637	2.44	2.98	2.809	2.769
IPLV						4.5		4.8	4.7	
Dimensions	Unit	Height		mm		2,553				
		Width		mm		2,238				
		Depth		mm		4,720		6,880		
Weight	Unit			kg		4,032		5,670		6,142
	Operation weight			kg		4,170.1	4,175.1	6,055	6,065	6,748
Air heat exchanger	Type					Microchannel				
Compressor	Type					Screw compressor				
	Quantity					1		2		
Fan	Type					Direct propeller				
	Quantity					8		12		
	Air flow rate	Cooling	Nom.	l/s		50,990		76,470		
Sound power level	Cooling	Nom.		dBA		98.1	100.5	99	100	99
Sound pressure level	Cooling	Nom.		dBA		77.8	80.3	77.8	78.8	77.8
Operation range	Air side	Cooling	Min.~Max.	°CDB		5 ~42				
Refrigerant	Type/GWP					R-513A/630				
	Charge			kg		80	85	105	115	125
	Circuits	Quantity				1		2		
Piping connections	Evaporator water inlet/outlet (OD)					139.7mm		168.3mm		219.1mm
Unit	Starting current	Max		A		0				
	Running current	Cooling	Nom.	A		362.8	413.9	457.4	515.3	568.4
		Max		A		457	464	600	668	
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400				



MicroTech 4



EWAD_H_S-TZ-D

EWAS-TZBSD

					EWAS-TZBSD	C10	H10	H11	C12	C13	C14
SEER								4.7			4.6
Cooling capacity	Nom.			kW		953.9	1,050	1,127	1,197	1,293	1,359.6
Power input	Cooling			kW		371.96	393.3	411.8	434.6	472.69	519.9
Capacity control	Method							Stepless			
	Minimum capacity			%		11			10		
EER						2.565	2.67	2.737	2.754	2.735	2.615
IPLV						4.7	4.8		4.7	4.6	
Dimensions	Unit	Height		mm				2,553			
		Width		mm				2,238			
		Depth		mm		6,880	7,960	9,040	10,120	11,200	
Weight	Unit			kg		6,142	6,816	7,297	7,779	8,260	8,581
	Operation weight			kg		6,763	7,523	8,014	8,506	9,002	9,333
Air heat exchanger	Type							Microchannel			
Compressor	Type							Screw compressor			
	Quantity							2			
Fan	Type							Direct propeller			
	Quantity					12	14	16	18	20	
	Air flow rate	Cooling	Nom.	l/s		76,470	89,233	101,980	114,705	127,450	
Sound power level	Cooling	Nom.		dBA		100	100.7	101	101.8	103.7	104.8
Sound pressure level	Cooling	Nom.		dBA		78.8	79.1		79.6	81.2	82.3
Operation range	Air side	Cooling	Min.~Max.	°CDB				5 ~42			
Refrigerant	Type/GWP							R-513A/630			
	Charge			kg		140	150	160	170	185	195
	Circuits	Quantity						2			
Piping connections	Evaporator water inlet/outlet (OD)							219.1mm			
Unit	Starting current	Max		A				0			
	Running current	Cooling	Nom.	A		647.2	681.9	711.6	748.1	807.1	876.6
		Max		A		751	817	884	930	948	1,120
Power supply	Phase/Frequency/Voltage			Hz/V				3~/50/400			

					EWAS-TZBSD	C15	H16	H17	H18	H19
SEER						4.6	4.9	4.8	4.7	4.8
Cooling capacity	Nom.			kW		1,483.5	1,606	1,688	1,799.6	1,868
Power input	Cooling			kW		558.77	581.2	647.2	699.02	775.2
Capacity control	Method							Stepless		
	Minimum capacity			%		10	13	12	11	10
EER						2.655	2.763	2.608	2.574	2.41
IPLV						4.6	5.2		5.1	
Dimensions	Unit	Height		mm				2,553		
		Width		mm				2,238		
		Depth		mm			12,280		13,360	
Weight	Unit			kg		9,920	10,323		10,805	
	Operation weight			kg		11,146	11,564	11,579	12,076	12,086
Air heat exchanger	Type							Microchannel		
Compressor	Type							Screw compressor		
	Quantity							2		
Fan	Type							Direct propeller		
	Quantity						22		24	
	Air flow rate	Cooling	Nom.	l/s			140,195		152,940	
Sound power level	Cooling	Nom.		dBA		106.2	104.1	104.9	105.8	106.6
Sound pressure level	Cooling	Nom.		dBA		83.4	81.2	82	82.7	83.5
Operation range	Air side	Cooling	Min.~Max.	°CDB				5 ~42		
Refrigerant	Type/GWP							R-513A/630		
	Charge			kg		215	230	245	260	270
	Circuits	Quantity						2		
Piping connections	Evaporator water inlet/outlet (OD)							273mm		
Unit	Starting current	Max		A				0		
	Running current	Cooling	Nom.	A		940.2	972.2	1,069	1,148	1,261
		Max		A		1,200	1,227	1,340	1,475	1,608
Power supply	Phase/Frequency/Voltage			Hz/V				3~/50/400		

Inverter screw with SILVER efficiency. Standard sound.

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- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,850 kW
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

					EWAS-TZSSD	285	325	380	430	495	520	535
SEER						5.2	5.4	5.5	5.2	5.1	4.9	5.3
Cooling capacity	Nom.			kW		284.9	329.3	374.3	426.2	487.5	522	529.7
Power input	Cooling	Nom.		kW		89.25	103.6	120.5	138.8	161.5	172.1	170.5
Capacity control	Method					Stepless						
	Minimum capacity			%		22	19	17	22	23	11	22
EER						3.192	3.179	3.106	3.071	3.019	3.033	3.107
IPLV						5.5	5.6	5.7	5.8	5.6	5.2	5.7
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		3,640	4,720				5,800	
Weight	Unit			kg		3,084	3,604		3,968	4,032	4,693	4,513
	Operation weight			kg		3,164	3,697	3,702	4,070.7	4,155.1	5,033	4,646.1
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					1					2	1
Fan	Type					Direct propeller						
	Quantity					6	8				10	
	Air flow rate	Cooling	Nom.	l/s		38,240	50,990				63,733	
Sound power level	Cooling	Nom.		dBA		97.8	98.3	100.2	97.7	97.1	99.3	98
Sound pressure level	Cooling	Nom.		dBA		78		80	77.4	76.9	78.6	77.3
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~42						
Refrigerant	Type/GWP					R-513A/630						
	Charge			kg		40	45	50	60	65	70	75
	Circuits	Quantity				1					2	1
Piping connections	Evaporator water inlet/outlet (OD)					88.9mm			139.7mm		168.3mm	139.7mm
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		182.7	211.5	234.4	261.8	296.6	349.9	314.5
		Max		A		231	272	294	357	372	421	411
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

					EWAS-TZSSD	555	585	595	645	650	705	760
SEER						5	4.9	5.2	5	5.2	4.9	5
Cooling capacity	Nom.			kW		553.9	583.2	585.6	645.1	635.1	702.3	758.2
Power input	Cooling	Nom.		kW		188.8	206.6	200.1	214.8	231	249.4	239.4
Capacity control	Method					Stepless						
	Minimum capacity			%		10		19	10	17	10	13
EER						2.934	2.823	2.927	3.003	2.749	2.816	3.167
IPLV						5.1		5.6	5.2	5.5	5.1	5.7
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		5,800			6,880	5,800	6,880	7,960
Weight	Unit			kg		4,693		4,513	5,177	4,513	5,177	6,151
	Operation weight			kg		5,038	5,043	4,651.1	5,522	4,661.1	5,527	6,536
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2		1	2	1	2	
Fan	Type					Direct propeller						
	Quantity					10			12	10	12	14
	Air flow rate	Cooling	Nom.	l/s		63,733			76,480	63,733	76,480	89,233
Sound power level	Cooling	Nom.		dBA		99.5	100.7	98.4	100.9	100.7	103	99.2
Sound pressure level	Cooling	Nom.		dBA		78.7	79.9	77.7	79.8	80	81.9	77.7
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~42						
Refrigerant	Type/GWP					R-513A/630						
	Charge			kg		75	80		90		95	105
	Circuits	Quantity				2		1	2	1	2	
Piping connections	Evaporator water inlet/outlet (OD)					168.3mm		139.7mm	168.3mm	139.7mm	168.3mm	
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		378.9	409.6	358.4	427.8	404.3	472.9	461.3
		Max		A		450	481	467	523	474	566	610
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						



MicroTech 4



EWAD_H_S-TZ-D

EWAS-TZSSD

					EWAS-TZSSD	835	960	C10	H10	H11	H12	H13
SEER						5.2	5.3	5.2		5.3	5.4	
Cooling capacity	Nom.			kW		832.7	948.8	1,001	1,043	1,149	1,268	1,359
Power input	Cooling	Nom.		kW		274.7	321.4	354.4	375	408.9	436.8	477.3
Capacity control	Method					Stepless						
	Minimum capacity			%		11	12	11		10		
EER						3.031	2.952	2.824	2.781	2.81	2.903	2.847
IPLV						5.6	5.5	5.4	5.5	5.4	5.5	
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		7,960				9,040	11,200	12,280
Weight	Unit			kg		6,151	6,623		6,816	7,297	8,260	8,742
	Operation weight			kg		6,546	7,239	7,244	7,518	8,014	8,992	9,489
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2						
Fan	Type					Direct propeller						
	Quantity					14				16	20	22
	Air flow rate	Cooling	Nom.	l/s		89,233				101,908	127,467	140,213
Sound power level	Cooling	Nom.		dBA		100.2	99.6	100.2	100.5	101	102.5	104.2
Sound pressure level	Cooling	Nom.		dBA		78.7	78	78.7	78.9	79.1	79.9	81.3
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~42						
Refrigerant	Type/GWP					R-513A/630						
	Charge			kg		115	135	140	145	160	175	190
	Circuits	Quantity				2						
Piping connections	Evaporator water inlet/outlet (OD)					168.3mm	219.1mm					
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		514.3	585.7	635	666.1	720.5	770.5	834.6
		Max		A		679	706	761	789	884	948	1,187
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

					EWAS-TZSSD	H14	H15	H16	H17	H18	H19
SEER						5.2	5.5	5.4		5.3	5.1
Cooling capacity	Nom.			kW		1,465	1,542	1,638	1,756	1,837	
Power input	Cooling	Nom.		kW		526.1	516.5	577.2	627.5	695.5	
Capacity control	Method					Stepless					
	Minimum capacity			%		10	14	13	12	11	10
EER						2.785	2.985	2.838	2.798	2.641	
IPLV						5.4	6.1	5.9	5.8	5.7	5.5
Dimensions	Unit	Height		mm		2,553					
		Width		mm		2,238					
		Depth		mm		12,280			13,360		
Weight	Unit			kg		9,920	10,323		10,805		
	Operation weight			kg		11,136	11,549	11,564	12,066	12,076	12,086
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					22			24		
	Air flow rate	Cooling	Nom.	l/s		140,213			152,960		
Sound power level	Cooling	Nom.		dBA		105.3	103.3	104.1	104.9	105.8	106.6
Sound pressure level	Cooling	Nom.		dBA		82.5	80.5	81.2	81.8	82.7	83.5
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~42					
Refrigerant	Type/GWP					R-513A/630					
	Charge			kg		205	215	230	250	260	270
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)					273mm					
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		910.1	894.9	984.4	1,062	1,163	
		Max		A		1,156	1,124	1,227	1,351	1,475	1,608
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

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					EWAS-TZXSD	295	345	380	440	515	525	565
SEER						5.2	5.4	5.5	5.2	5.1	5	5.3
Cooling capacity	Nom.			kW		293.5	344.9	377.1	435.9	506.6	524.4	560.5
Power input	Cooling			kW		94.89	108.5	124.1	127.6	159.3	155	171.5
Capacity control	Method					Stepless						
	Minimum capacity			%		22	19	17	28	23	13	22
EER						3.093	3.179	3.039	3.416	3.18	3.383	3.268
IPLV						5.8	6.1	5.9	6.3	6.1	6	6.5
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		3,640	4,720		5,800		6,880	
Weight	Unit			kg		3,255	3,775		4,569		5,348	5,136
	Operation weight			kg		3,335	3,868	3,873	4,687.1	4,697.1	5,673	5,287.3
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					1					2	1
Fan	Type					Direct propeller						
	Quantity					6	8		10		12	
	Air flow rate	Cooling	Nom.	l/s		33,930	45,240		56,540		67,860	68,280
Sound power level	Cooling	Nom.		dBA		97.5	98.1	102.6	95.7	97.5	100.1	
Sound pressure level	Cooling	Nom.		dBA		79.9	81.8	82.8	74.6	75.8	78.9	76.2
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~42						
Refrigerant	Type/GWP					R-513A/630						
	Charge			kg		40	45	50	60	70		75
	Circuits	Quantity				1					2	1
Piping connections	Evaporator water inlet/outlet (OD)					88.9mm			139.7mm		168.3mm	139.7mm
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		198.1	227.3	247	258.3	305.8	334.1	331
		Max		A		224	261	289	314	342	389	404
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

					EWAS-TZXSD	565	610	635	670	705	725	760
SEER						4.9	5	5.2	4.9	5.2	5	4.9
Cooling capacity	Nom.			kW		560.5	610.4	626.7	665.8	696.1	719.7	749.1
Power input	Cooling			kW		171.5	187.8	202.4	214.2	220.6	233.6	248.3
Capacity control	Method					Stepless						
	Minimum capacity			%		12	11	19	10	30	10	28
EER						3.268	3.25	3.096	3.108	3.155	3.081	3.017
IPLV						5.9	6	6.2	5.8	5.6	5.9	5.5
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		6,880	7,960	6,880	7,960	6,880	7,960	6,880
Weight	Unit			kg		5,348	5,829	5,136	5,829	5,805	5,946	5,805
	Operation weight			kg		5,683	6,169	5,297.3	6,174	5,976.3	6,344	5,986.3
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2		1	2	1	2	1
Fan	Type					Direct propeller						
	Quantity					12	14	12	14	12	14	12
	Air flow rate	Cooling	Nom.	l/s		67,860	79,170	68,280	79,170	68,280	79,170	68,280
Sound power level	Cooling	Nom.		dBA		100.3	100.6	104.6	100.9	99	102.3	99.8
Sound pressure level	Cooling	Nom.		dBA		80.2	81.2	76.6	83.3	77.8	83.8	78.6
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~42						
Refrigerant	Type/GWP					R-513A/630						
	Charge			kg		80	85		90	95	100	105
	Circuits	Quantity				2		1	2	1	2	1
Piping connections	Evaporator water inlet/outlet (OD)					168.3mm		139.7mm	168.3mm	139.7mm	168.3mm	139.7mm
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		331	397.7	377.1	443.2	403.7	464.7	444.5
		Max		A		429	457	452	498	520	535	568
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						



MicroTech 4



EWAD_H_S-TZ-D

EWAS-TZXSD

EWAS-TZXSD					805	880	950	C10	H10	H11	C12
SEER					5.2	5.3	5.2		5.3	5.4	
Cooling capacity	Nom.			kW	794.9	873.2	941.6	988.1	1,052	1,122	1,183
Power input	Cooling			kW	246.2	266.2	300.2	310.7	346.2	357.9	393.7
Capacity control	Method				Stepless						
	Minimum capacity			%	10	14	13	12	11		10
EER					3.229	3.28	3.137	3.18	3.039	3.135	3.005
IPLV					6	6.4	6.2	6.3	6.1	6.3	6.1
Dimensions	Unit	Height		mm	2,553						
		Width		mm	2,238						
		Depth		mm	9,040			10,120		11,200	
Weight	Unit			kg	6,904	7,160		7,642		8,316	
	Operation weight			kg	7,495	7,761	7,771	8,258	8,268	9,028	9,038
Air heat exchanger	Type				Microchannel						
Compressor	Type				Screw compressor						
	Quantity				2						
Fan	Type				Direct propeller						
	Quantity				16			18		20	
	Air flow rate	Cooling	Nom.	l/s	90,480			101,772		113,080	
Sound power level	Cooling	Nom.		dBA	104.6	98.4	100.3	101	102.3	102.9	105.2
Sound pressure level	Cooling	Nom.		dBA	83.9	76.1	76.5	76.8	77.5	77.6	77.9
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~42						
Refrigerant	Type/GWP				R-513A/630						
	Charge			kg	110	120	130	135	145	155	165
	Circuits	Quantity			2						
Piping connections	Evaporator water inlet/outlet (OD)				219.1mm						
Unit	Starting current	Max		A	0						
	Running current	Cooling	Nom.	A	466.5	520.3	571.1	592.9	645.8	669.5	722.6
		Max		A	573	626	683	720	782	744	803
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						

EWAS-TZXSD					H12	H13	H14	H15	H16	H17
SEER					5.2	5.5	5.4		5.3	5.1
Cooling capacity	Nom.			kW	1,267.2	1,344	1,442	1,551	1,645	1,734
Power input	Cooling			kW	426.7	452.1	446.3	503.1	562.8	628.6
Capacity control	Method				Stepless					
	Minimum capacity			%	10		15	14	13	12
EER					2.97	2.973	3.231	3.083	2.923	2.759
IPLV					6		6.1	6.2	6.1	5.9
Dimensions	Unit	Height		mm	2,553					
		Width		mm	2,238					
		Depth		mm	11,200	12,280	13,360			
Weight	Unit			kg	8,316	9,655	10,805			
	Operation weight			kg	9,053	10,856	12,016	12,031	12,046	12,061
Air heat exchanger	Type				Microchannel					
Compressor	Type				Screw compressor					
	Quantity				2					
Fan	Type				Direct propeller					
	Quantity				20	22	24			
	Air flow rate	Cooling	Nom.	l/s	113,080	124,388	135,696			
Sound power level	Cooling	Nom.		dBA	107.5	106.1	102	102.8	103.7	104.5
Sound pressure level	Cooling	Nom.		dBA	78	79.1	78.9	79.7	80.5	81.4
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~42					
Refrigerant	Type/GWP				R-513A/630					
	Charge			kg	180	190	200	215	230	245
	Circuits	Quantity			2					
Piping connections	Evaporator water inlet/outlet (OD)				219.1mm	273mm				
Unit	Starting current	Max		A	0					
	Running current	Cooling	Nom.	A	744.2	817.8	814.6	898.5	986.3	1,083
		Max		A	851	899	997	1,103	1,217	1,330
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					

Inverter screw with GOLD efficiency. Reduced sound.

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					EWAS-TZXRD	295	345	380	440	515	525	565
Capacity control	Method					Stepless						
	Minimum capacity				%	22	19	17	28	23	13	22
Dimensions	Unit	Height			mm	2,553						
		Width			mm	2,238						
		Depth			mm	3,640	4,720		5,800		6,880	
Weight	Unit				kg	3,375	3,895		4,689		5,468	5,256
	Operation weight				kg	3,455	3,988	3,993	4,807.1	4,817.1	5,793	5,407.3
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					1					2	1
Fan	Type					Direct propeller						
	Quantity					6	8		10		12	
	Air flow rate	Cooling	Nom.		l/s	28,330	37,770		47,213		56,660	
Sound power level	Cooling	Nom.			dBA	87.5	88.3	91.5	87.6	88.4	90.2	
Sound pressure level	Cooling	Nom.			dBA	67.7	68.1	71.2	66.9	67.7	69	
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~42						
Refrigerant	Type/GWP					R-134a/630						
	Charge				kg	40	45	50	60	70		75
	Circuits	Quantity				1					2	1
Piping connections	Evaporator water inlet/outlet (OD)					88.9mm			139.7mm		168.3mm	139.7mm
Unit	Starting current	Max			A	0						
	Running current	Max			A	224	261	289	314	342	389	404
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400						

					EWAS-TZXRD	565	610	635	670	705	725	760
Capacity control	Method					Stepless						
	Minimum capacity				%	12	11	19	10	30	10	28
Dimensions	Unit	Height			mm	2,553						
		Width			mm	2,238						
		Depth			mm	6,880	7,960	6,880	7,960	6,880	7,960	6,880
Weight	Unit				kg	5,468	5,949	5,256	5,949	5,925	6,066	5,925
	Operation weight				kg	5,803	6,289	5,417.3	6,294	6,096.3	6,464	6,106.3
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2		1	2	1	2	1
Fan	Type					Direct propeller						
	Quantity					12	14	12	14	12	14	12
	Air flow rate	Cooling	Nom.		l/s	56,660	66,098	56,660	66,098	56,660	66,098	56,660
Sound power level	Cooling	Nom.			dBA	90.3	90.8	93.4	91	89.6	91.9	90.1
Sound pressure level	Cooling	Nom.			dBA	69.2		72.3	69.4	68.4	70.3	68.9
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~42						
Refrigerant	Type/GWP					R-134a/630						
	Charge				kg		85		90	95	100	105
	Circuits	Quantity				2		1	2	1	2	1
Piping connections	Evaporator water inlet/outlet (OD)					168.3mm		139.7mm	168.3mm	139.7mm	168.3mm	139.7mm
Unit	Starting current	Max			A	0						
	Running current	Max			A	429	457	452	498	520	535	568
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400						



MicroTech 4



EWAD_H_S-TZ-D

EWAS-TZXRD

					EWAS-TZXRD	805	880	950	C10	H10	H11	C12
Capacity control	Method					Stepless						
	Minimum capacity			%		10	14	13	12	11		10
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		9,040			10,120		11,200	
Weight	Unit			kg		7,024	7,280		7,762		8,436	
	Operation weight			kg		7,615	7,881	7,891	8,378	8,388	9,148	9,158
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2						
Fan	Type					Direct propeller						
	Quantity					16			18		20	
	Air flow rate	Cooling	Nom.	l/s		75,540			84,983		94,425	
Sound power level	Cooling	Nom.		dBA		93.7	89.9	90.9	91.5	92.3	92.8	94.4
Sound pressure level	Cooling	Nom.		dBA		71.8	68	69	69.3	70	70.3	71.9
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~42						
Refrigerant	Type/GWP					R-134a/630						
	Charge			kg		110	120	130	135	145	155	165
	Circuits	Quantity				2						
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm						
Unit	Starting current	Max		A		0						
	Running current	Max		A		573	626	683	720	782	744	803
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

					EWAS-TZXRD	H12	H13	H14	H15	H16	H17
Capacity control	Method					Stepless					
	Minimum capacity			%		10		15	14	13	12
Dimensions	Unit	Height		mm		2,553					
		Width		mm		2,238					
		Depth		mm		11,200	12,280	13,360			
Weight	Unit			kg		8,436	9,775	10,925			
	Operation weight			kg		9,173	10,976	12,136	12,151	12,166	12,181
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					20	22	24			
	Air flow rate	Cooling	Nom.	l/s		94,425	103,868	113,320			
Sound power level	Cooling	Nom.		dBA		96.3	95.2	92.6	93.1	93.6	94.2
Sound pressure level	Cooling	Nom.		dBA		73.7	72.4	69.5	70	70.5	71.1
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~42					
Refrigerant	Type/GWP					R-134a/630					
	Charge			kg			190	200	215	230	245
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm	273mm				
Unit	Starting current	Max		A		0					
	Running current	Max		A			899	997	1,103	1,217	1,330
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

Inverter screw with PLATINUM efficiency. Standard sound.

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EWAS-TZPSD					285	330	370	405	450	490
SEER					5.9	6	5.9	6.3	6.2	
Cooling capacity	Nom.			kW	287.6	333.2	370.2	405.1	450.1	488.4
Power input	Cooling	Nom.		kW	81.89	96.83	111.6	110.6	123.5	137.5
Capacity control	Method				Stepless					
	Minimum capacity			%	23	20	18	30	28	25
EER					3.512	3.441	3.317	3.663	3.645	3.552
IPLV					6.5		6.4	7	7.3	7.2
Dimensions	Unit	Height		mm	2,553					
		Width		mm	2,238					
		Depth		mm	4,720	5,800		6,880		
Weight	Unit			kg	3,775	4,256		5,050	5,136	
	Operation weight			kg	3,863	4,349	4,354	5,163.1	5,272.3	5,277.3
Air heat exchanger	Type				Microchannel					
Compressor	Type				Screw compressor					
	Quantity				1					
Fan	Type				Direct propeller					
	Quantity				8	10		12		
	Air flow rate	Cooling	Nom.	l/s	45,240	56,540		67,848		
Sound power level	Cooling	Nom.		dBA	97.5	98.1	100.4	94.7	96	97.7
Sound pressure level	Cooling	Nom.		dBA	78.2	81	81.9	74.2	74.5	74.9
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~42					
Refrigerant	Type/GWP				R-513A/630					
	Charge			kg	40	45	50	55	60	65
	Circuits	Quantity			1					
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm			139.7mm		
Unit	Starting current	Max		A	0					
	Running current	Cooling	Nom.	A	181.1	212.7	238.2	242	258.8	280
		Max		A	220	258	285	293	352	404
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					

EWAS-TZPSD					530	575	615	675	735
SEER					6	5.9		5.8	
Cooling capacity	Nom.			kW	531.7	573.6	620.2	677.1	732.9
Power input	Cooling	Nom.		kW	150.8	167.7	180.9	205.7	223.4
Capacity control	Method				Stepless				
	Minimum capacity			%	13	12	11	10	
EER					3.526	3.42	3.428	3.292	3.281
IPLV					6.4	6.3		6.1	6.2
Dimensions	Unit	Height		mm	2,553				
		Width		mm	2,238				
		Depth		mm	7,960		9,040		
Weight	Unit			kg	5,829		6,311		6,427
	Operation weight			kg	6,159	6,164	6,651	6,661	6,825
Air heat exchanger	Type				Microchannel				
Compressor	Type				Screw compressor				
	Quantity				2				
Fan	Type				Direct propeller				
	Quantity				14		16		
	Air flow rate	Cooling	Nom.	l/s	79,170		90,480		
Sound power level	Cooling	Nom.		dBA	100.2	100.4	100.7	101	102.3
Sound pressure level	Cooling	Nom.		dBA	78.6	79.9	80.9	83	83.4
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~42				
Refrigerant	Type/GWP				R-513A/630				
	Charge			kg	75	80	85	95	100
	Circuits	Quantity			2				
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm				
Unit	Starting current	Max		A	0				
	Running current	Cooling	Nom.	A	332	361.5	391.2	434	459.1
		Max		A	399	429	468	508	535
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400				



MicroTech 4



EWAD_H_S-TZ-D

EWAS-TZPSD

					EWAS-TZPSD	810	890	960	C10	H10	H11
SEER						6.1	6.3	6.1	6.2	6.1	
Cooling capacity	Nom.			kW		810	884.2	954	1,001	1,067	1,110
Power input	Cooling	Nom.		kW		238.8	256.7	288.7	298.9	331.9	343.6
Capacity control	Method					Stepless					
	Minimum capacity			%		10	14	13	12	11	
EER						3.392	3.444	3.304	3.349	3.215	3.231
IPLV						6.5	6.8	6.6		6.3	6.5
Dimensions	Unit	Height		mm		2,553					
		Width		mm		2,238					
		Depth		mm		10,120			11,200		12,280
Weight	Unit			kg		7,385	7,642		8,123		8,798
	Operation weight			kg		7,976	8,243	8,253	8,744	8,754	9,515
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					18			20		22
	Air flow rate	Cooling	Nom.	l/s		101,772			113,080		140,200
Sound power level	Cooling	Nom.		dBA		104.6	98.6	100.4	101.1	102.4	103
Sound pressure level	Cooling	Nom.		dBA		83.6	75.9	76.3	76.6	77.3	77.4
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~42					
Refrigerant	Type/GWP					R-513A/630					
	Charge			kg		110	120	130	140	150	160
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm					
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		485.2	511.9	559.9	581.2	630.4	653.8
		Max		A		573	616	672	709	761	796
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

					EWAS-TZPSD	C12	H12	H13	H14	H15
SEER						6	6.1	6	5.9	5.7
Cooling capacity	Nom.			kW		1,197	1,288	1,363	1,443	1,552
Power input	Cooling	Nom.		kW		434.6	410.7	433.6	435.6	492.1
Capacity control	Method					Stepless				
	Minimum capacity			%			10		15	14
EER						2.754	3.136	3.143	3.313	3.154
IPLV						6.4	6.3	6.4	6.3	6.4
Dimensions	Unit	Height		mm		2,553				
		Width		mm		2,238				
		Depth		mm		12,280		13,360		
Weight	Unit			kg		8,798	9,655	10,136	10,805	
	Operation weight			kg		9,520	10,846	11,337	12,021	12,036
Air heat exchanger	Type					Microchannel				
Compressor	Type					Screw compressor				
	Quantity					2				
Fan	Type					Direct propeller				
	Quantity					22		24		
	Air flow rate	Cooling	Nom.	l/s		140,200		152,945		
Sound power level	Cooling	Nom.		dBA		105.2	107.5	106.2	102	102.8
Sound pressure level	Cooling	Nom.		dBA		77.7	77.9	78.9		79.7
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~42				
Refrigerant	Type/GWP					R-513A/630				
	Charge			kg		165	180	190	205	220
	Circuits	Quantity				2				
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm	273mm			
Unit	Starting current	Max		A		0				
	Running current	Cooling	Nom.	A		748.1	756.2	796.3	798.5	882
		Max		A		845	893	951	1,039	1,135
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400				

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					EWAS-TZPRD	285	330	370	405	450	490
Capacity control	Method					Stepless					
	Minimum capacity				%	23	20	18	30	28	25
Dimensions	Unit	Height			mm	2,553					
		Width			mm	2,238					
		Depth			mm	4,720	5,800		6,880		
Weight	Unit				kg	3,895	4,376		5,170	5,256	
	Operation weight				kg	3,983	4,469	4,474	5,283.1	5,392.3	5,397.3
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					1					
Fan	Type					Direct propeller					
	Quantity					8	10		12		
	Air flow rate	Cooling	Nom.		l/s	37,770	47,213		56,660		
Sound power level	Cooling	Nom.			dBA	88	88.7	90.1	87.8	88.2	88.9
Sound pressure level	Cooling	Nom.			dBA	67.7	68	69.4	66.6	67	67.8
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~42					
Refrigerant	Type/GWP					R-134a/630					
	Charge				kg	40	45	50	55	60	65
	Circuits	Quantity				1					
Piping connections	Evaporator water inlet/outlet (OD)					88.9mm			139.7mm		
Unit	Starting current	Max			A	0					
	Running current	Max			A	220	258	285	293	352	404
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400					

					EWAS-TZPRD	530	575	615	675	735
Capacity control	Method					Stepless				
	Minimum capacity				%	13	12	11	10	
Dimensions	Unit	Height			mm	2,553				
		Width			mm	2,238				
		Depth			mm	7,960		9,040		
Weight	Unit				kg	5,949		6,431		6,547
	Operation weight				kg	6,279	6,284	6,771	6,781	6,945
Air heat exchanger	Type					Microchannel				
Compressor	Type					Screw compressor				
	Quantity					2				
Fan	Type					Direct propeller				
	Quantity					14		16		
	Air flow rate	Cooling	Nom.		l/s	66,098		75,540		
Sound power level	Cooling	Nom.			dBA	90.6	90.7	91.1	91.3	92.1
Sound pressure level	Cooling	Nom.			dBA	69	69.1	69.2	69.4	70.2
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~42				
Refrigerant	Type/GWP					R-134a/630				
	Charge				kg	75	80	85	95	100
	Circuits	Quantity				2				
Piping connections	Evaporator water inlet/outlet (OD)					168.3mm				
Unit	Starting current	Max			A	0				
	Running current	Max			A	399	429	468	508	535
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400				



MicroTech 4



EWAD_H_S-TZ-D

EWAS-TZPRD

					EWAS-TZPRD	810	890	960	C10	H10	H11
Capacity control	Method					Stepless					
	Minimum capacity			%		10	14	13	12	11	
Dimensions	Unit	Height		mm		2,553					
		Width		mm		2,238					
		Depth		mm		10,120			11,200		12,280
Weight	Unit			kg		7,505	7,762		8,243		8,918
	Operation weight			kg		8,096	8,363	8,373	8,864	8,874	9,635
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					18			20		22
	Air flow rate	Cooling	Nom.	l/s		84,983			94,425		103,868
Sound power level	Cooling	Nom.		dBA		93.9	90.3	91.2	91.8	92.5	93
Sound pressure level	Cooling	Nom.		dBA		71.6	68.1	68.9	69.2	69.9	70.2
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~42					
Refrigerant	Type/GWP					R-134a/630					
	Charge			kg		110	120	130	140	150	160
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm					
Unit	Starting current	Max		A		0					
	Running current	Max		A		573	616	672	709	761	796
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

					EWAS-TZPRD	C12	H12	H13	H14	H15
Capacity control	Method					Stepless				
	Minimum capacity			%		10			15	14
Dimensions	Unit	Height		mm		2,553				
		Width		mm		2,238				
		Depth		mm		12,280		13,360		
Weight	Unit			kg		8,918	9,775	10,256	10,925	
	Operation weight			kg		9,640	10,966	11,457	12,141	12,156
Air heat exchanger	Type					Microchannel				
Compressor	Type					Screw compressor				
	Quantity					2				
Fan	Type					Direct propeller				
	Quantity					22		24		
	Air flow rate	Cooling	Nom.	l/s		103,868		113,320		
Sound power level	Cooling	Nom.		dBA		94.5	96.4	95.4	92.6	93.1
Sound pressure level	Cooling	Nom.		dBA		71.7	73.5	72.2	69.5	70
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~42				
Refrigerant	Type/GWP					R-134a/630				
	Charge			kg		165	180	190	205	220
	Circuits	Quantity				2				
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm	273mm			
Unit	Starting current	Max		A		0				
	Running current	Max		A		845	893	951	1,039	1,135
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400				

Air cooled scroll chiller, standard efficiency, standard/low sound

- First R-32 air cooled chiller with Scroll compressors in the market
- Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
- One or two truly independent refrigerant circuits for outstanding reliability
- MicroTech 4 controller with superior control logic and easy interface
- Low operating cost and extended operating life thanks to the careful design aimed to optimize the energy efficiency of the chillers and to improve installation profitability, effectiveness and economical management
- Fan speed modulation to ensure precise airflow control and optimized condensing temperature
- Possible to set up detailed time bands to reduce fan rotation speed and therefore sound emission
- Thanks to the Dynamic Condensing Pressure Management, the chiller controller adjusts the condensing pressure set-point to minimize the overall chiller power input



Single V

Scroll compressor



MicroTech 4

EWAT-B-SSB EWAT-B-SLB

Cooling Only				EWAT-B-SSB/SLB	085	115	135	155	175	195	205	215
Space cooling	A Condition 35°C	Pdc		kW	80.92	108.97	131.42	158.15	174.93	191.39	210.53	217.08
	ηs,c			%	161	173	161		176.2	170.6	173	161
	ηs,c + VFDFAN			%	-							
SEER + VFDFAN					4.1	4.4	4.1		4.48	4.34	4.4	4.1
SEER					-							
Cooling capacity	Nom.			kW	81	109	131	158	175	191	211	217
Power input	Cooling	Nom.		kW	31.8	38.5	49.8	61.9	67.8	69.5	80	85.8
Capacity control	Method				Step							
	Minimum capacity			%	50	38	50	25	38	21	19	50
EER					2.55	2.83	2.64	2.55	2.58	2.75	2.63	2.53
IPLV + VFDFAN					4.75	4.83	4.67	4.76	4.81	4.84	4.86	4.7
EER + VFDFAN					-							
IPLV					-							
Dimensions	Unit	Height		mm	1,801			1,822	1,801	1,822		
		Width		mm	1,204							
		Length		mm	2,110	2,650		3,570	3,170	4,170		3,770
Weight (SSB)	Unit			kg	681	767	811	1,007	984	1,166	1,158	1,184
	Operation weight			kg	686	773	821	1,014	996	1,177	1,169	1,200
Weight (SLB)	Unit			kg	691	777	820	1,028	994	1,187	1,179	1,194
	Operation weight			kg	696	783	830	1,035	1,006	1,198	1,190	1,210
Water heat exchanger	Type				Plate Heat Exchanger							
	Water volume			l	5	6	9	7	12	11		16
	Water flow rate	Cooling	Nom.	l/s	3.9	5.2	6.3	7.6	8.4	9.1	10.1	10.4
	Water pressure drop	Cooling	Nom.	kPa	27.3	34.4	26.5	64.2	41.7	45.9	54.4	41.4
Air heat exchanger	Type				Microchannel							
Compressor	Type				Scroll compressor							
	Quantity				2			4	2	4		2
Fan	Type				Direct propeller							
	Quantity				4	6		8		10		
	Air flow rate	Nom.		l/s	6.022	9.036		13.354	12.023	16.710		15.057
	Speed			rpm	1,360							
Sound power level (SSB)	Cooling	Nom.		dBA	84.8	88.2	89.7	87.8	91.8	89.9	90.9	93.2
Sound power level (SLB)	Cooling	Nom.		dBA	83.7	86.2	87	86.7	88.8	88.1	88.7	90
Sound pressure level (SSB)	Cooling	Nom.		dBA	67.4	70.5	72	69.5	73.8	71.3	72.3	74.8
Sound pressure level (SLB)	Cooling	Nom.		dBA	66.3	68.5	69.3	68.4	70.7	69.5	70.1	71.6
Refrigerant	Type/GWP				R-32/675							
	Charge			kg	7.5	8.5		13	11	14.5		13
	Circuits	Quantity			1			2	1	2		1
Piping connections	Evaporator water inlet/outlet (OD)			mm	76.1			88.9	76.1	88.9		76.1
Unit	Starting current	Max		A	213	313	324	284	462	384	395	498
	Running current	Cooling	Nom.	A	59	69	83	108	113	117	131	142
		Max		A	73	86	96	143	132	156	167	168
Power supply	Phase/Frequency			Hz	3~/50							

Air cooled scroll chiller, standard efficiency, reduced sound

- First R-32 air cooled chiller with Scroll compressors in the market
- Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
- One or two truly independent refrigerant circuits for outstanding reliability
- MicroTech 4 controller with superior control logic and easy interface
- Low operating cost and extended operating life thanks to the careful design aimed to optimize the energy efficiency of the chillers and to improve installation profitability, effectiveness and economical management
- Fan speed modulation to ensure precise airflow control and optimized condensing temperature
- Possible to set up detailed time bands to reduce fan rotation speed and therefore sound emission
- Thanks to the Dynamic Condensing Pressure Management, the chiller controller adjusts the condensing pressure set-point to minimize the overall chiller power input



Scroll compressor

Single V



MicroTech 4

EWAT-B-SRB

Cooling Only				EWAT-B-SRB	085	115	135	155	175	195	205	215
Space cooling	A Condition 35°C	Pdc		kW	76.49	105	123.88	150.13	164.87	181.31	200.51	203.5
	ηs,c			%	161	173	161		166.2	162.2	167.8	161
SEER					4.1	4.4	4.1		4.23	4.13	4.27	4.1
Cooling capacity	Nom.			kW	76	105	124	150	165	181	201	204
Power input	Cooling	Nom.		kW	33.7	40.3	53	65.9	73	73.2	84.6	91.9
Capacity control	Method				Step							
	Minimum capacity			%	50	38	50	25	38	21	19	50
EER					2.27	2.61	2.34	2.28	2.26	2.48	2.37	2.21
IPLV					4.71	4.84	4.63	4.62	4.84	4.64	4.91	4.66
Dimensions	Unit	Height		mm	1,801			1,822	1,801	1,822		
		Width		mm	1,204							
		Length		mm	2,110	2,650		3,570	3,170	4,170		3,770
Weight	Unit			kg	691	777	821	1,028	994	1,187	1,179	1,194
	Operation weight			kg	696	783	830	1,035	1,006	1,198	1,190	1,210
Water heat exchanger	Type				Plate Heat Exchanger							
	Water volume			l	5	6	9	7	12	11		16
	Water flow rate	Cooling	Nom.	l/s	3.7	5	5.9	7.2	7.9	8.7	9.6	9.7
	Water pressure drop	Cooling	Nom.	kPa	24.6	32.2	23.8	58.5	37.5	41.6	49.9	36.8
Air heat exchanger	Type				Microchannel							
Compressor	Type				Scroll compressor							
	Quantity				2			4	2	4		2
Fan	Type				Direct propeller							
	Quantity				4	6		8		10		
	Air flow rate	Nom.		l/s	4.929	7.396		11.352	9.838	14.202		12.325
	Speed			rpm	1,200							
Sound power level	Cooling	Nom.		dBA	77	82.5	84.1	81.6	86.3	83.9	85.2	87.8
Sound pressure level	Cooling	Nom.		dBA	61.2	64.7	66.4	63.3	68.3	65.3	66.6	69.4
Refrigerant	Type/GWP				R-32/675							
	Charge			kg	7.5	8.5		13	11	14.5		13
	Circuits	Quantity			1			2	1	2		1
Piping connections	Evaporator water inlet/outlet (OD)			mm	76.1			88.9	76.1	88.9		76.1
Unit	Starting current	Max		A	213	313	324	284	462	384	395	498
	Running current	Cooling	Nom.	A	62	71	87	115	119	123	139	151
		Max		A	73	86	96	143	132	156	167	168
Power supply	Phase/Frequency			Hz	3~/50							

Air cooled scroll chiller, high efficiency, standard/low sound

- First R-32 air cooled chiller with Scroll compressors in the market
- Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
- One or two truly independent refrigerant circuits for outstanding reliability
- MicroTech 4 controller with superior control logic and easy interface
- Low operating cost and extended operating life thanks to the careful design aimed to optimize the energy efficiency of the chillers and to improve installation profitability, effectiveness and economical management
- Fan speed modulation to ensure precise airflow control and optimized condensing temperature
- Possible to set up detailed time bands to reduce fan rotation speed and therefore sound emission
- Thanks to the Dynamic Condensing Pressure Management, the chiller controller adjusts the condensing pressure set-point to minimize the overall chiller power input



Scroll compressor

Single V



MicroTech 4

EWAT-B-XSB

EWAT-B-XLB

Cooling Only				EWAT-B-XSB/XLB	085	115	145	180	185	200	220	230	250	280	300	310	320	360	370	430	470	540	600	660	700
Space cooling	A Condition 35°C	Pdc	kW		87.9	113.89	143.48	179.01	182.67	200.92	226.26	238.95	254.88	281.64	304.64	305.17	326.28	351.74	371.72	424.99	472.32	538.3	609.11	662.39	704.37
	ηs,c		%		167	183	175	-	175.8	173	177	169.4	175.8	180.6	181	181	177	170.6	176.2	179.4	179	179.4	181.4	182.6	180.2
	ηs,c + VFDFAN		%			-		181.8	-	176.2	184.2	174.6	184.2	188.6	190.2	184.6	178.2	181	179.8	182.6	179.8	187		190.6	
SEER					4.25	4.65	4.45	4.62	4.47	4.48	4.5	4.31	4.47	4.59	4.6		4.5	4.34	4.48	4.56	4.55	4.56	4.61	4.64	4.58
SEER + VFDFAN						-		4.38	-	4.40	4.68	4.44	4.68	4.79	4.83	4.69	4.53	4.6	4.57	6.64	4.57	4.75		4.84	
Cooling capacity	Nom.		kW		88	114	143	179	183	201	226	239	255	282	305		326	352	372	425	472	538	609	662	704
Power input	Cooling	Nom.	kW		28.8	36.6	44.4	57	63.6	65.7	74.7	74.6	81.7	87.9	97.3	97.4	106.8	113	121	137	153	175	195	211	227
Capacity control	Method				Step																				
	Minimum capacity		%		50	38	50	25	38	21	19	19	17	16	24	14	22	33	19	17	25	14	12	11	17
EER					3.05	3.12	3.23	3.14	2.87	3.06	3.03	3.21	3.12	3.2	3.13	3.313	3.06	3.11	3.06	3.11	3.09	3.07	3.12	3.14	3.1
IPLV + VFDFAN					4.83	4.90	4.88	5.11	4.74	4.87	4.72	4.6	4.69	4.78	4.86	4.77	4.79	4.38	4.7	4.8	4.9	4.8	4.79	4.82	4.77
EER + VFDFAN						-		3.13	-	3.05	3.02	3.19	3.11	3.19	3.12		3.05	3.11	3.05	3.1	3.08	3.07	3.11	3.13	3.09
IPLV						-		4.65	-	4.67	4.97	5	5.02	5.14	4.95	4.93	4.97	4.96	4.95	4.92	4.71	5.05	5.08	5.12	5.1
Dimensions	Unit	Height	mm		1,801		1,822	2,540	1,822	2,540															
		Width	mm			1,204		2,224	1,204	2,224															
		Length	mm		2,650	3,170	3,770	2,338	3,770	2,338		3,230	3,247					4,147	4,135		5,034		5,888	6,795	
Weight (XSB)	Unit		kg		737	830	949	1,633	1,066	1,663	1,699	2,014	1,987	2,128	2,226	2,159	2,196	2,639	2,698	2,785	3,228	3,448	3,900	4,294	4,436
	Operation weight		kg		742	836	958	1,644	1,078	1,674	1,710	2,030	2,001	2,147	2,246	2,178	2,215	2,659	2,718	2,813	3,256	3,490	3,942	4,344	4,486
Weight (XLB)	Unit		kg		747	840	959	1,736	1,076	1,766	1,802	2,082	2,090	2,231	2,318	2,262	2,299	2,731	2,801	2,888	3,393		4,106	4,500	4,642
	Operation weight		kg		752	846	968	1,747	1,088	1,777	1,813	2,098	2,104	2,250	2,338	2,281	2,318	2,751	2,821	2,916	3,421		4,148	4,550	4,692
Water heat exchanger	Type				Brazed plate																				
	Water volume		l		5	6	9	11	12	11		16	14	19	20	19		20		28		42		50	
	Water flow rate	Cooling	Nom.	l/s	4.2	5.4	6.9	8.6	8.7	9.6	10.8	11.4	12.2	13.4	14.5	14.6	15.6	16.8	17.7	20.3	22.5	25.7	29.1	31.6	33.6
	Water pressure drop	Cooling	Nom.	kPa	31.6	37.3	31	40.7	45.1	50.1	43.7	49.2	54.2	39.8	62.2	46.1	51.9	80.6	65.7	56.6	68.5	59.7	74.6	70.2	78.5
Air heat exchanger	Type				Microchannel																				
Compressor	Type				Scroll compressor																				
	Quantity					2		4	2	4		2	4	3	4		3	4			5	6			
Fan	Type				Direct propeller																				
	Quantity				6	8	10	4	10	4		5	6				7	8	9	10	12	13	14		
	Air flow rate	Nom.		l/s	9.036	12.023	15.057	20.306	15.057	20.306		25.382	30.459				35.535	40.612	45.688	50.765	60.918	65.994	71.071		
	Speed			rpm		1,360		900	1,360	900															
Sound power level (XSB)	Cooling	Nom.		dBA	86	88.8	90.5	91.2	92.1	92	92.7	94.8	93.8	94.6	95.6	95	95.4	96.4	96.2	96.9	97.6	98	98.6	99	99.4
Sound power level (XLB)	Cooling	Nom.		dBA	85.2	87.1	88.5	90.6	89.3	90.6	90.7	91.8	91.7	92.5	92.6	92.5	92.6	93.3	93.2	93.8	94.4		95.6	95.9	96.3
Sound pressure level (XSB)	Cooling	Nom.		dBA	68.3	70.8	72.2	72.3	73.7	73.1	73.7	75.3	74.3	75.1	76.1	75.5	75.9	76.4	76.3	77	77.2	77.6	77.8	77.9	78.3
Sound pressure level (XLB)	Cooling	Nom.		dBA	67.5	69.1	70.1	71.6	70.9	71.7		72.3	72.2	73	73.1	73	73.1	73.3		73.9	74		74.8		75.2
Refrigerant	Type/GWP				R-32/675																				
	Charge			kg	9	10	11	20	12	20		23.5	24	27.5	28		27.5	32	31	36	43.5	49	55	60	66
	Circuits	Quantity				1		2	1	2		1	2		1	2		1				2			
Piping connections	Evaporator water inlet/outlet (OD)			mm		76.1		88.9	76.1	88.9		76.1	88.9		76.1	88.9		76.1		88.9			114.3		
Unit	Starting current	Max		A	215	315	328	290	464	388	399	506	414	543	554		564	592	602	640	678	727	779	817	855
	Running current	Cooling	Nom.	A	56	67	78	110	108	122	135	128	145	158	168	170	183	192	208	234	259	298	334	360	387
		Max		A	75	87	100	149	134	160	171	176	186	213	224		235	262	273	311	348	397	449	487	525
Power supply	Phase/Frequency			Hz	3~/50																				

Air cooled scroll chiller, high efficiency, reduced sound

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- One or two truly independent refrigerant circuits for outstanding reliability
- MicroTech 4 controller with superior control logic and easy interface
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- Fan speed modulation to ensure precise airflow control and optimized condensing temperature
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Scroll compressor

Single V



MicroTech 4

EWAT-B-XRB

Cooling Only					EWAT-B-XRB	085	115	145	180	185	200	220	230	250	280	300	310	320	360	370	430	470	540	600	660	700
Space cooling	A Condition 35°C	Pdc		kW		81.86	108.59	135.62	168.03	166.16	187.56	208.44	224.52	238.22	264.73	284.94	284.65	301.84	328.88	346.48	394.41	439.5	501.51	571.63	621.1	659.28
	ηs,c			%		150.6	179.4	166.6	177	164.6	186.6	179	169	177	186.6	185.8	183	173.8	180.6	176.2	181.8	179	183	187.4		185.4
SEER						4.13	4.56	4.24	4.5	4.19	4.74	4.55	4.3	4.5	4.74	4.72	4.65	4.42	4.59	4.48	4.62	4.55	4.65	4.76		4.71
Cooling capacity	Nom.			kW		82	109	136	168	166	188	208	225	238	265	285		302	329	346	394	440	502	572	621	659
Power input	Cooling	Nom.		kW		30.8	38.9	46.9	59.1	70.5	69.8	80.7	79.2	87.3	92.2	105	103	115	121	130	147	163	190	207	224	242
Capacity control	Method					Step																				
	Minimum capacity			%		50	38	50	25	38	21	19	50	17	16	24	14	22	33	19	17	25	14	12	11	17
EER						2.66	2.79	2.89	2.84	2.36	2.69	2.58	2.84	2.73	2.87	2.72	2.76	2.63	2.71	2.67	2.69		2.64	2.76	2.77	2.72
IPLV						4.74	4.91	4.70	5.04	4.72	5.05	4.97	4.86	4.91	5.08	4.78	4.94	4.62	5.04	4.95	4.88	4.72	4.96	5.04	5.07	5.08
Dimensions	Unit	Height		mm		1,801		1,822	2,540	1,822	2,540															
		Width		mm		1,204			2,224	1,204	2,224															
		Length		mm		2,650	3,170	3,770	2,338	3,770	2,338		3,230	3,247		3,230	3,247		4,147	4,135		5,034		5,888	6,795	
Weight	Unit			kg		747	840	959	1,736	1,076	1,776	1,802	2,082	2,090	2,231	2,318	2,262	2,299	2,731	2,801	2,888	3,393	3,633	4,106	4,500	4,642
	Operation weight			kg		752	846	968	1,747	1,088	1,777	1,813	2,098	2,104	2,250	2,338	2,281	2,318	2,751	2,821	2,916	3,421	3,675	4,148	4,550	4,692
Water heat exchanger	Type					Plate Heat Exchanger																				
	Water volume			l		5	6	9	11	12	11		16	14	19	20	19		20		28		42		50	
	Water flow rate	Cooling	Nom.	l/s		3.9	5.2	6.5	8	7.9	9	10	10.7	11.4	12.6	13.6		14.4	15.7	16.5	18.8	21	23.9	27.3	29.6	31.5
	Water pressure drop	Cooling	Nom.	kPa		27.8	34.2	28	36.3	38	44.2	37.7	44	48.2	35.6	55.1	40.6	45.1	71.4	57.9	49.5	60.2	52.5	66.5	62.6	69.7
Air heat exchanger	Type					Microchannel																				
Compressor	Type					Scroll compressor																				
	Quantity					2			4	2	4		2	4		3	4		3	4			5	6		
Fan	Type					Direct propeller																				
	Quantity					6	8	10	4	10	4		5		6				7	8	9	10	12	13	14	
	Air flow rate	Nom.		l/s		6.673	8.896	11.122	15.054	11.122	15.054		18.819	18.818	22.582				26.346	30.110	33.874	37.637	45.164	48.928	52.692	
	Speed			rpm		1,108			700	1,108	700															
Sound power level	Cooling	Nom.		dBA		77.9	81.9	84	84.2	86	84.5	84.8	86.2	85.8	86.6	87	86.7	86.9	87.7	87.6	88.3	88.9	89.3	90	90.4	90.7
Sound pressure level	Cooling	Nom.		dBA		60.2	63.9	65.6	65.3	67.7	65.5	65.8	66.7	66.3	67.1	67.5	67.2	67.4	67.8	67.7	68.3	68.5	68.9	69.2	69.3	69.6
Refrigerant	Type/GWP					R-32/675																				
	Charge			kg		9	10	11	12	20			23.5	24	27.5	28		27.5	32	31	36	43.5	49	55	60	66
	Circuits	Quantity				1			2	1	2		1	2		1	2		1				2			
Piping connections	Evaporator water inlet/outlet (OD)			mm		76.1			88.9	76.1	88.9		76.1	88.9		76.1	88.9		76.1	88.9				114.3		
Unit	Starting current	Max		A		215	315	328	290	464	388	399	506	414	543	554		564	592	602	640	678	727	779	817	855
	Running current	Cooling	Nom.	A		59	71	83	113	118	128	143	134	151	164	177	179	194	204	221	250	276	319	352	381	410
		Max		A		75	87	100	149	134	160	171	176	186	213	224		235	262	273	311	348	397	449	487	525
Power supply	Phase/Frequency			Hz		3~/50																				

Air cooled scroll compressor chiller Gold efficiency Standard sound

- R32 refrigerant;
- Nominal capacity up to 1,000 kW;
- Scroll compressors;
- Top class efficiency both at full and part load conditions;
- Best capacity with smallest footprint;
- Microchannel coils;
- Performance monitoring;
- New Daikin MicroTech 4 controller.



MicroTech 4



EWAT-B-SSC

Cooling Only					EWAT	250B-SSC2	270B-SSC2	310B-SSC1	320B-SSC2	350B-SSC1	380B-SSC2	430B-SSC2	480B-SSC2
Space cooling	A Condition 35°C	Pdc		kW		241.8	253	305.92	317.98	345.59	381.40	426.61	477.56
		ηs,c		%		185.4	182.2	184.6	177.7	181.2	183.0	184.9	183.0
SEER						4.71	4.63	4.689	4.517	4.604	4.649	4.698	4.649
Cooling capacity	Nom.			kW		241.8	253	305.92	317.98	345.59	381.40	426.61	477.56
Power input	Cooling	Nom.		kW		80.77	86.82	106.6	115.0	130.0	125.2	148.6	176.0
Capacity control	Method					Step							
	Minimum capacity			%		17	25	22	21	19	18	16	14
EER						2.994	2.914	2.869	2.764	2.658	3.046	2.871	2.714
IPLV						5.08	5.07	4.948	4.794	4.948	4.849	4.907	4.940
Dimensions	Unit	Height		mm		2,535							
		Width		mm		2,238							
		Depth		mm		2,514					3,594		
Weight	Unit			kg		2,019	2,063	2,076	2,118	2,200	2,618	2,801	2,924
	Operation weight			kg		2,039	2,083	2,099	2,146	2,228	2,646	2,837	2,960
Air heat exchanger	Type					Microchannel							
Compressor	Type					Scroll compressor							
	Quantity					4		3	4	3	4		5
Fan	Type					Direct propeller							
	Quantity					4					6		
	Air flow rate	Cooling	Nom.	l/s		25.500		25,490	25,500	25,490	38,240		
Sound power level	Cooling	Nom.		dBA		92	93	94.0	93.8	94.5	95.1	95.6	95.9
Sound pressure level	Cooling	Nom.		dBA		73	74	74.9	74.7	75.5	75.4	75.9	76.2
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20~52							
Refrigerant	Type/GWP					R-32/675							
	Charge			kg		18	18	22.0	25.0	30.0	31.0	35.0	39.0
	Circuits	Quantity				2	2	1	2	1	2		
Piping connections	Evaporator water inlet/outlet (OD)					88.9mm							
Unit	Starting current	Max		A		464	482	693	697	735	750	792	838
	Running current	Cooling	Nom.	A		152	163	186	200	224	222	260	304
		Max		A		199	216	245	249	287	302	344	390
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400							

Cooling Only					EWAT	570B-SSC2	620B-SSC2	670B-SSC2	730B-SSC2	790B-SSC2	860B-SSC2	960B-SSC2
Space cooling	A Condition 35°C	Pdc		kW		567.34	622.34	668.92	734.97	791.18	857.22	961.63
		ηs,c		%		190.4	188.9	188.1	190.4	190.8	192.6	189.0
SEER						4.834	4.797	4.778	4.834	4.844	4.889	4.801
Cooling capacity	Nom.			kW		567.34	622.34	668.92	734.97	791.18	857.22	961.63
Power input	Cooling	Nom.		kW		185.5	213.1	237.0	248.6	273.9	285.5	335.1
Capacity control	Method					Step						
	Minimum capacity			%		22	20	18	17	15	14	25
EER						3.058	2.921	2.823	2.957	2.889	3.002	2.870
IPLV						5.062	5.073	5.088	5.120	5.092	5.122	5.079
Dimensions	Unit	Height		mm		2,535						
		Width		mm		2,238						
		Depth		mm		4,674			5,574	5,848	6,928	
Weight	Unit			kg		3,495	3,670	3,779	4,308	4,666	5,119	5,313
	Operation weight			kg		3,555	3,747	3,856	4,385	4,743	5,196	5,412
Air heat exchanger	Type					Microchannel						
Compressor	Type					Scroll compressor						
	Quantity					5	6			7		8
Fan	Type					Direct propeller						
	Quantity					8	8		10	10	12	
	Air flow rate	Cooling	Nom.	l/s		50,980	50,980		63,730	63,730	76,480	
Sound power level	Cooling	Nom.		dBA		96.7	97.0	97.3	97.9	98.1	98.6	99.0
Sound pressure level	Cooling	Nom.		dBA		76.5	76.7	77.0	77.2	77.4	77.5	77.8
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20~52						
Refrigerant	Type/GWP					R-32/675						
	Charge			kg		45.0	50.0	53.0	59.0	63.0	68.0	77.0
	Circuits	Quantity				2						
Piping connections	Evaporator water inlet/outlet (OD)					139.7mm						
Unit	Starting current	Max		A		891	936	979	1,032	1,079	1,132	1,220
	Running current	Cooling	Nom.	A		329	374	413	438	479	505	585
		Max		A		443	488	531	584	631	684	772
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

Air cooled scroll compressor chiller Gold efficiency Standard sound

- R32 refrigerant;
- Nominal capacity up to 1,000 kW;
- Scroll compressors;
- Top class efficiency both at full and part load conditions;
- Best capacity with smallest footprint;
- Microchannel coils;
- Performance monitoring;
- New Daikin MicroTech 4 controller.



MicroTech 4



EWAT-B-SRC

Cooling Only				EWAT	250B-SRC2	270B-SRC2	310B-SRC1	320B-SRC2	350B-SRC1	380B-SRC2	430B-SRC2	480B-SRC2
Space cooling	A Condition 35°C	Pdc		kW	240.1	259.9	297.62	308.38	334.14	373.60	415.25	463.29
	ηs,c			%	201.4	187.4	197.5	185.0	189.2	192.8	193.5	193.1
SEER					5.11	4.76	5.013	4.700	4.806	4.895	4.913	4.902
Cooling capacity	Nom.			kW	240.1	259.9	297.62	308.38	334.14	373.60	415.25	463.29
Power input	Cooling	Nom.		kW	83.45	93.89	108.0	117.1	133.5	124.4	149.9	179.2
Capacity control	Method				Step							
	Minimum capacity			%	17	25	22	21	19	18	16	14
EER					2.877	2.768	2.757	2.634	2.502	3.003	2.771	2.586
IPLV					5.54	5.34	5.485	4.999	5.319	5.324	5.339	5.382
Dimensions	Unit	Height		mm	2,535							
		Width		mm	2,238							
		Depth		mm	2,514					3,594		
Weight	Unit			kg	2,107	2,151	2,076	2,206	2,200	2,618	2,801	2,924
	Operation weight			kg	2,127	2,171	2,099	2,234	2,228	2,646	2,837	2,960
Air heat exchanger	Type				Microchannel							
Compressor	Type				Scroll compressor							
	Quantity				4		3			4		5
Fan	Type				Direct propeller							
	Quantity				5	6	4			6		
	Air flow rate	Cooling	Nom.	l/s	21.460		21,470	21,460	21,470	32,200		
Sound power level	Cooling	Nom.		dBA	88		87.9	87.8	88.1	89.5	89.6	89.7
Sound pressure level	Cooling	Nom.		dBA	68	69	68.8		69.0	69.8	69.9	70.0
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~52							
Refrigerant	Type/GWP				R-32/675							
	Charge			kg	18		22	25	30	31	35	39
	Circuits	Quantity			2		1	2	1		2	
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm							
Unit	Starting current	Max		A	464	482	693	697	735	750	792	838
	Running current	Cooling	Nom.	A	151	165	195	210	236	232	272	319
		Max		A	199	216	245	249	287	302	344	390
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400							

Cooling Only				EWAT	570B-SRC2	620B-SRC2	670B-SRC2	730B-SRC2	790B-SRC2	860B-SRC2	960B-SRC2
Space cooling	A Condition 35°C	Pdc		kW	553.35	605.02	647.77	714.95	768.57	835.75	933.57
	ηs,c			%	202.0	200.3	197.9	205.2	206.3	208.4	201.8
SEER					5.124	5.083	5.022	5.206	5.232	5.284	5.121
Cooling capacity	Nom.			kW	553.35	605.02	647.77	714.95	768.57	835.75	933.57
Power input	Cooling	Nom.		kW	186.4	216.0	242.2	251.4	278.3	287.5	341.0
Capacity control	Method				Step						
	Minimum capacity			%	22	20	18	17	15	14	25
EER					2.969	2.801	2.674	2.844	2.762	2.907	2.738
IPLV					5.557	5.557	5.525	5.650	5.484	5.630	5.550
Dimensions	Unit	Height		mm	2,535						
		Width		mm	2,238						
		Depth		mm	4,674			5,754	5,848	6,928	
Weight	Unit			kg	3,495	3,670	3,779	4,308	4,666	5,119	5,313
	Operation weight			kg	3,555	3,747	3,856	4,385	4,743	5,196	5,412
Air heat exchanger	Type				Microchannel						
Compressor	Type				Scroll compressor						
	Quantity				5	6			7		8
Fan	Type				Direct propeller						
	Quantity				8	8		10	10	12	
	Air flow rate	Cooling	Nom.	l/s	42,940	42,940		53,670	53,670	64,400	
Sound power level	Cooling	Nom.		dBA	90.8	90.9	91.0	91.9	91.9	92.6	92.7
Sound pressure level	Cooling	Nom.		dBA	70.6	70.7	70.8	71.2	71.2	71.5	71.6
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~52						
Refrigerant	Type/GWP				R-32/675						
	Charge			kg	45	50	53	59	63	68	77
	Circuits	Quantity			2						
Piping connections	Evaporator water inlet/outlet (OD)				139.7mm						
Unit	Starting current	Max		A	891	936	979	1,032	1,078	1,131	1,219
	Running current	Cooling	Nom.	A	344	392	434	459	503	529	615
		Max		A	443	488	531	584	630	683	771
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						

Air cooled scroll compressor chiller Gold efficiency Standard sound

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- Performance monitoring;
- New Daikin MicroTech 4 controller.



MicroTech 4



EWAT-B-XSC

Cooling Only				EWAT	180B-XSC2	210B-XSC2	230B-XSC2	250B-XSC2	250B-XSC1	290B-XRC2	320B-XRC2	320B-XSC1	350B-XRC2	370B-XSC1	10B-XSC2
Space cooling	A Condition 35°C	Pdc		kW	182.9	205	221.3	246.7	252.39	287.1	321.5	324.44	334.1	371.33	1,009.36
		ηs,c		%	181.4	185.4	186.6	187.4	181.8	187.8	188.6	188.6	118.6	187.4	193.4
SEER					4.61	4.71	4.74	4.76	4.620	4.77	4.79	4.789	4.79	4.759	4.910
Cooling capacity	Nom.			kW	182.9	205	221.3	246.7	252.39	287.1	321.5	324.44	334.1	371.33	1,009.00
Power input	Cooling	Nom.		kW	56.73	63.41	67.74	81.48	79.1	93.7	101.6	100.0	110	118.8	315.7
Capacity control	Method				Step										
	Minimum capacity			%	25	21	19	17	50	25	13	22	20	19	25
EER					3.225	3.233	3.267	3.028	3.189	3.064	3.165	3.245	3.036	3.126	3.197
IPLV					4.91	5.09		5.2	4.907	5.22	5.01	5.002	5.21	5.051	5.126
Dimensions	Unit	Height		mm	2,535										
		Width		mm	2,238										
		Depth		mm	2,514					3,594					9,088
Weight	Unit			kg	1,877	1,939	2,002	2,046	1,963	2,488	2,664	2,466	2,666	2,585	6,251
	Operation weight			kg	1,891	1,959	2,030	2,074	1,986	2,516	2,692	2,489	2,694	2,610	6,350
Air heat exchanger	Type				Microchannel										
Compressor	Type				Scroll compressor										
	Quantity				4				2	5		3	5	3	8
Fan	Type				Direct propeller										
	Quantity				4					6					16
	Air flow rate	Cooling	Nom.	l/s	25.500				25,490	38,240					101,980
Sound power level	Cooling	Nom.		dBA	91	92			93.5	94		94.8		95.3	99.5
Sound pressure level	Cooling	Nom.		dBA	72	73			74.4	74		75.1		75.6	77.6
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~52										
Refrigerant	Type/GWP				R-32/675										
	Charge			kg	19.2				33.1			50.0	44.0	55.0	75.0
	Circuits	Quantity			2				1	2	2	2			2
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm										139.7mm
Unit	Starting current	Max		A	304	429	468	464	647	492	532	703	540	746	1,240
	Running current	Cooling	Nom.	A	112	125	134	154	142	175	190	181	209	212	567
		Max		A	146	162	181	199	199	227	257	255	275	298	792
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400										

Cooling Only				EWAT	390B-XSC2	450B-XSC2	510B-XSC2	540B-XSC2	590B-XSC2	630B-XSC2	720B-XSC2	760B-XSC2	830B-XSC2	880B-XSC2
Space cooling	A Condition 35°C	Pdc		kW	387.85	448.05	512.31	539.39	586.74	631.42	716.56	762.50	834.45	880.39
		ηs,c		%	184.9	187.4	189.4	192.5	192.4	192.6	193.9	194.2	193.8	193.5
SEER					4.697	4.760	4.810	4.887	4.884	4.890	4.923	4.930	4.920	4.913
Cooling capacity	Nom.			kW	387.85	448.05	512.31	539.39	586.74	631.42	716.56	762.50	834.45	880.39
Power input	Cooling	Nom.		kW	125.6	140.5	158.0	160.2	178.6	197.1	218.1	236.9	257.3	276.1
Capacity control	Method				Step									
	Minimum capacity			%	18	16	25	14	22	20	18	17	15	14
EER					3.088	3.189	3.242	3.368	3.285	3.203	3.285	3.219	3.243	3.189
IPLV					4.895	4.977	5.068	5.091	5.117	5.109	5.141	5.165	5.130	5.146
Dimensions	Unit	Height		mm	2,535									
		Width		mm	2,238									
		Depth		mm	3,594	4,674		5,754			6,834		8,008	
Weight	Unit			kg	2,657	3,169	3,359	3,804	3,916	4,024	4,565	4,673	5,442	5,551
	Operation weight			kg	2,693	3,205	3,419	3,864	3,979	4,084	4,642	4,750	5,519	5,628
Air heat exchanger	Type				Microchannel									
Compressor	Type				Scroll compressor									
	Quantity				4			5			6		7	
Fan	Type				Direct propeller									
	Quantity				6	8		10			12		14	
	Air flow rate	Cooling	Nom.	l/s	38,240	50,980		63,730			76,480		89,230	
Sound power level	Cooling	Nom.		dBA	95.1	96.1	96.5	96.9	97.2	97.5	98.0	98.3	98.7	98.9
Sound pressure level	Cooling	Nom.		dBA	75.4	75.9	76.3	76.2	76.5	76.8	76.9	77.1	77.2	77.4
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~52									
Refrigerant	Type/GWP				R-32/675									
	Charge			kg	30.5	35.0	39.5	42.0	45.0	49.0	55.0	57.5	62.5	67.0
	Circuits	Quantity			2									
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm		139.7mm							
Unit	Starting current	Max		A	750	803	845	858	901	944	999	1,042	1,142	
	Running current	Cooling	Nom.	A	223	252	284	292	323	354	394	425	464	495
		Max		A	302	355	397	410	453	496	551	594	694	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400									

Air cooled scroll compressor chiller Gold efficiency Standard sound

- R32 refrigerant;
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- Microchannel coils;
- Performance monitoring;
- New Daikin MicroTech 4 controller.



MicroTech 4



EWAT-B-XRC

Cooling Only				EWAT	180B-XRC2	210B-XRC2	230B-XRC2	250B-XRC2	250B-XRC1	290B-XRC2	320B-XRC1	320B-XRC2	350B-XRC2	370B-XRC1	10B-XRC2
Space cooling	A Condition Pdc 35°C			kW	169.8	192.1	220.5	239.4	241.40	274.5	313.20	286.2	326.9	355.68	965.50
	ηs,c			%	200.6	201.4	204.6	197.4	195.6	203.4	204.4	207	202.2	202.6	206.2
SEER					5.09	5.11	5.19	5.01	4.965	5.16	5.186	5.25	5.13	5.140	5.229
Cooling capacity	Nom.			kW	169.8	192.1	220.5	239.4	241.40	274.5	313.20	286.2	326.9	355.68	965.50
Power input	Cooling	Nom.		kW	51.15	61.78	70.9	85.68	81.1	91.3	99.9	93.11	115	121.4	323.5
Capacity control	Method				Step										
	Minimum capacity			%	25	21	19	17	50	25	22	13	20	19	25
EER					3.319	3.11		2.794	2.977	3.006	3.135	3.074	2.842	2.929	2.985
IPLV					5.51	5.59	5.5	5.51	5.340	5.77	5.525	5.67	5.72	5.487	5.576
Dimensions	Unit	Height		mm	2,535										
		Width		mm	2,238										
		Depth		mm	2,514				2,510	3,594	53,600	3,594	3,594	3,590	9,090
Weight	Unit			kg	1,965	2,026	2,090	2,134	1,963	2,604	2,576	2,831	2,833	2,585	6,251
	Operation weight			kg	1,979	2,046	2,118	2,162	1,968	2,604	2,604	2,831	2,833	2,610	6,350
Air heat exchanger	Type				Microchannel										
Compressor	Type				Scroll compressor										
	Quantity				4				2	4	3	5	5	3	8
Fan	Type				Direct propeller										
	Quantity				4					6					16
	Air flow rate	Cooling	Nom.	l/s	18,900					28,350					75,600
Sound power level	Cooling	Nom.		dBA	83				84.0	85	85.4	85	85	85.7	90.0
Sound pressure level	Cooling	Nom.		dBA	64				64.9	64	65.7	65	65	66.0	68.1
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~52										
Refrigerant	Type/GWP				R-32/675										
	Charge			kg	19.2				44.0	33.1	50.0	33.1	33.1	55.0	75.0
	Circuits	Quantity			2				1	2		2	2	1	2
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm										139.7mm
Unit	Starting current	Max		A	304	429	446	464	647	492	703	523	540	746	1,240
	Running	Cooling	Nom.	A	103	119	131	152	143	164	178	205	205	213	570
	current	Max		A	146	163	181	199	199	227	255	275	275	298	792
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400										

Cooling Only				EWAT	390B-XRC2	450B-XRC2	510B-XRC2	540B-XRC2	590B-XRC2	630B-XRC2	720B-XRC2	760B-XRC2	830B-XRC2	880B-XRC2
Space cooling	A Condition Pdc 35°C			kW	370.32	431.43	489.48	520.68	563.54	603.94	687.57	728.98	800.94	842.34
	ηs,c			%	196.2	203.3	201.3	208.2	207.8	206.5	208.6	207.0	210.0	208.8
SEER					4.979	5.158	5.108	5.279	5.270	5.237	5.291	5.249	5.324	5.294
Cooling capacity	Nom.			kW	370.32	431.43	489.48	520.68	563.54	603.94	687.57	729.00	800.94	842.34
Power input	Cooling	Nom.		kW	129.1	141.4	162.1	159.6	180.7	202.0	221.3	242.8	261.1	282.2
Capacity control	Method				Step									
	Minimum capacity			%	18	16	25	14	22	20	18	17	15	14
EER					2.869	3.052	3.019	3.262	3.119	2.990	3.107	3.003	3.067	2.979
IPLV					5.317	5.446	5.528	5.630	5.620	5.601	5.649	5.605	5.613	5.605
Dimensions	Unit	Height		mm	2,535									
		Width		mm	2,238									
		Depth		mm	3,590	4,670		5,750			6,830		8,010	
Weight	Unit			kg	2,657	3,169	3,359	3,804	3,916	4,024	4,565	4,673	5,442	5,551
	Operation weight			kg	2,693	3,205	3,419	3,864	3,976	4,084	4,642	4,750	5,519	5,628
Air heat exchanger	Type				Microchannel									
Compressor	Type				Scroll compressor									
	Quantity				4			5			6		7	
Fan	Type				Direct propeller									
	Quantity				6	8		10			12		14	
	Air flow rate	Cooling	Nom.	l/s	28,350	37,800		47,250			56,700		66,150	
Sound power level	Cooling	Nom.		dBA	85.6	86.8	87.0	87.6	87.8	87.9	88.6	88.7	89.3	89.4
Sound pressure level	Cooling	Nom.		dBA	65.9	66.5	66.7	66.9	67.1	67.2	67.5	67.6	67.7	67.8
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~52									
Refrigerant	Type/GWP				R-32/675									
	Charge			kg	30.5		39.5	42.0	45.0	49.0	55.0	57.5	62.5	67.0
	Circuits	Quantity			2									
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm		139.7mm							
Unit	Starting current	Max		A	750	803	845	858	901	944	999	1,042	1,142	
	Running	Cooling	Nom.	A	225	249	286	287	322	356	393	428	463	498
	current	Max		A	302	355	397	410	453	496	551	594	694	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400									

Air cooled scroll compressor chiller with integrated free cooling Silver efficiency Standard sound



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- Glycol free option;
- New Daikin MicroTech 4 controller.

EWFT-B-SSC

Cooling Only					EWFT	310B-SSC1	320B-SSC2	350B-SSC1	380B-SSC2	430B-SSC2	480B-SSC2	570B-SSC2	620B-SSC2	670B-SSC2	730B-SSC2
SEER						4.833	4.546	4.641	4.688	4.73	4.742	4.921	4.879	4.815	5.014
Cooling capacity	Nom.				kW	395.2	351.7	439.1	499.3	493.6	553.8	738.6	803.5	749.6	843.7
Power input	Cooling	Nom.			kW	121.6	95.91	151.7	138.4	131.3	164.2	211	245.1	211.9	220.9
Capacity control	Method					Step									
	Minimum capacity				%	39	21	33	18	16	14	22	20	18	17
EER						3.25	3.667	2.894	3.608	3.76	3.373	3.501	3.278	3.538	3.819
IPLV						5.259	4.869	5.080	5.078	5.086	5.122	5.284	5.275	5.241	5.392
Dimensions	Unit	Height			mm	2,535									
		Width			mm	2,238									
		Depth			mm		2,514			3,594			4,674		5,754
Weight	Unit				kg	2,245	2,288	2,373	2,852	3,012	3,155	3,774	3,953	4,056	4,667
	Operation weight				kg	2,388	2,436	2,521	3,023	3,198	3,341	4,044	4,223	4,343	5,054
Air heat exchanger	Type					Microchannel									
Compressor	Type					Scroll compressor									
	Quantity					3	4	3	4		5		6		
Fan	Type					Direct propeller									
	Quantity						4		6				8		10
	Air flow rate	Cooling	Nom.		l/s		22,510		33,765				45,020		56,275
Sound power level	Cooling	Nom.			dBA	94	93.8	94.5	95.1	95.6	95.9	96.7	97	97.3	97.9
Sound pressure level	Cooling	Nom.			dBA	74.9	74.7	75.5	75.4	75.9	76.2	76.5	76.7	77.0	77.2
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~46									
Refrigerant	Type/GWP					R-32/675.0									
	Charge				kg	22.0	25.0	30.0	31.0	35.0	39.0	45.0	50.0	53	59.0
	Circuits	Quantity				1	2	1				2			
Piping connections	Evaporator water inlet/outlet (OD)							88.9					139.7		
Unit	Starting current	Max			A	693	697	735	750	792	838	891	936	979	1,032
	Running current	Cooling	Nom.		A	216.2	174.1	264.3	252.3	240.2	294.4	378.9	435	380.3	403.2
		Max			A	245	249	287	302	344	390	443	488	531	584
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400									

Cooling Only					EWFT	790B-SSC2	860B-SSC2	960B-SSC2
SEER						5.049	5.076	4.93
Cooling capacity	Nom.				kW	1,018	1,112	1,235
Power input	Cooling	Nom.			kW	316.1	325.1	387.5
Capacity control	Method					Step		
	Minimum capacity				%	15	14	25
EER						3.222	3.422	3.188
IPLV						5.307	5.381	5.312
Dimensions	Unit	Height			mm	2,535		
		Width			mm	2,238		
		Depth			mm	5,848	6,928	
Weight	Unit				kg	5,035	5,546	5,860
	Operation weight				kg	5,422	5,975	6,311
Air heat exchanger	Type					Microchannel		
Compressor	Type					Scroll compressor		
	Quantity					7		8
Fan	Type					Direct propeller		
	Quantity					10	12	
	Air flow rate	Cooling	Nom.		l/s	56,275	67,530	
Sound power level	Cooling	Nom.			dBA	98.1	98.6	99
Sound pressure level	Cooling	Nom.			dBA	77.4	77.5	77.8
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~46		
Refrigerant	Type/GWP					R-32/675.0		
	Charge				kg	63.0	68.0	77.0
	Circuits	Quantity				2		
Piping connections	Evaporator water inlet/outlet (OD)					139.7		
Unit	Starting current	Max			A	1,079	1,132	1,220
	Running current	Cooling	Nom.		A	559	581.8	683.6
		Max			A	631	684	772
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400		

Performances according to Chiller Configurator 1.4 software | Cooling: entering evaporator water temp. 26°C; leaving evaporator water temp. 18°C; ambient air temp. 35°C; ethylene glycol fluid 25%; full load operation.

Air cooled scroll compressor chiller with integrated free cooling Silver efficiency Standard sound



- R32 refrigerant;
- Nominal capacity up to 1,000 kW;
- Scroll compressors;
- Top class efficiency both at full and part load conditions;
- Best capacity with smallest footprint;
- Microchannel coils;
- Glycol free option;
- New Daikin MicroTech 4 controller.

EWFT-B-SRC

Cooling Only					EWFT	310B-SRC1	320B-SRC2	350B-SRC1	380B-SRC2	430B-SRC2	480B-SRC2	570B-SRC2	620B-SRC2	670B-SRC2	730B-SRC2
SEER						4.778	4.329	4.602	4.713	4.715	4.662	4.899	4.823	4.782	4.972
Cooling capacity	Nom.				kW	395.2	408.4	439.1	480.6	544.2	598.2	725	762.6	851.4	947.6
Power input	Cooling	Nom.			kW	121.6	131.1	151.7	143.7	167.5	204.3	214.2	259.3	277.4	283.4
Capacity control	Method					Step									
	Minimum capacity				%	39	21	33	18	16	14	22	20	18	17
EER						3.25	3.115	2.894	3.344	3.249	2.928	3.385	2.941	3.069	3.344
IPLV						5.281	4.858	5.084	5.074	5.096	5.148	5.329	5.347	5.309	5.414
Dimensions	Unit	Height			mm	2,535									
		Width			mm	2,238									
		Depth			mm		2,514			3,594			4,674		5,754
Weight	Unit				kg	2,336	2,379	2,464	2,942	3,134	3,298	3,917	4,116	4,219	4,830
	Operation weight				kg	2,479	2,527	2,612	3,113	3,320	3,484	4,187	4,386	4,506	5,217
Air heat exchanger	Type					Microchannel									
Compressor	Type					Scroll compressor									
	Quantity					3	4	3	4		5		6		
Fan	Type					Direct propeller									
	Quantity						4		6			8			10
	Air flow rate	Cooling	Nom.		l/s		22,510		33,765			45,020			56,275
Sound power level	Cooling	Nom.			dBA	87.9	87.8	88.1	89.5	89.6	89.7	90.8	90.9	91	91.9
Sound pressure level	Cooling	Nom.			dBA	68.8		69.0	69.8	69.9	70.0	70.6	70.7	70.8	71.2
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~46									
Refrigerant	Type/GWP					R-32/675									
	Charge				kg	22.0	25.0	30.0	31.0	35.0	39.0	45.0	50.0	53.0	59.0
	Circuits	Quantity				1	2	1				2			
Piping connections	Evaporator water inlet/outlet (OD)							88.9				139.7			
Unit	Starting current	Max			A	693	697	735	750	792	838	891	936	979	1,032
	Running current	Cooling	Nom.		A	229.6	243.8	277.7	266.8	312.2	372.3	401.2	464.7	509.7	529.5
		Max			A	245	249	287	302	344	390	443	488	531	584
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400									

Cooling Only					EWFT	790B-SRC2	860B-SRC2	960B-SRC2
SEER						4.984	5.057	4.883
Cooling capacity	Nom.				kW	970.4	1,093	1,170
Power input	Cooling	Nom.			kW	335.4	329.9	409.7
Capacity control	Method					Step		
	Minimum capacity				%	15	14	25
EER						2.893	3.312	2.856
IPLV						5.271	5.399	5.300
Dimensions	Unit	Height			mm	2,535		
		Width			mm	2,238		
		Depth			mm	5,848	6,928	
Weight	Unit				kg	5,220	5,730	6,065
	Operation weight				kg	5,607	6,159	6,516
Air heat exchanger	Type					Microchannel		
Compressor	Type					Scroll compressor		
	Quantity					7		8
Fan	Type					Direct propeller		
	Quantity					10	12	
	Air flow rate	Cooling	Nom.		l/s	56,275	67,530	
Sound power level	Cooling	Nom.			dBA	91.9	92.6	92.7
Sound pressure level	Cooling	Nom.			dBA	71.2	71.5	71.6
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~46		
Refrigerant	Type/GWP					R-32/675		
	Charge				kg	63.0	68.0	77.0
	Circuits	Quantity				2		
Piping connections	Evaporator water inlet/outlet (OD)					139.7		
Unit	Starting current	Max			A	1,078	1,131	1,219
	Running current	Cooling	Nom.		A	597.9	615.2	727.8
		Max			A	630	683	771
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400		

Performances according to Chiller Configurator 1.4 software | Cooling: entering evaporator water temp. 26°C; leaving evaporator water temp. 18°C; ambient air temp. 35°C; ethylene glycol fluid 25%; full load operation.

Air cooled scroll compressor chiller with integrated free cooling Gold efficiency Standard sound

- R32 refrigerant;
- Nominal capacity up to 1,000 kW;
- Scroll compressors;
- Top class efficiency both at full and part load conditions;
- Best capacity with smallest footprint;
- Microchannel coils;
- Glycol free option;
- New Daikin MicroTech 4 controller.



EWFT-B-XSC

Cooling Only					EWFT	10B-XSC2	250B-XSC1	320B-XSC1	370B-XSC1	390B-XSC2	450B-XSC2	510B-XSC2	540B-XSC2	590B-XSC2	630B-XSC2
SEER						5.189	4.723	5.186	5.011	4.74	4.957	4.911	5.213	5.141	5.131
Cooling capacity	Nom.				kW	1,326	331.9	429.6	487.6	508.5	591.6	673.7	716.2	774.8	829.5
Power input	Cooling	Nom.			kW	351.7	87.99	108.4	131	139.3	152.6	176.8	175.2	197.5	219.9
Capacity control	Method					Step									
	Minimum capacity				%	25	50	39	33	18	16	25	14	22	20
EER						3.77	3.772	3.963	3.722	3.65	3.877	3.81	4.088	3.923	3.772
IPLV						5.514	5.185	5.518	5.366	5.122	5.326	5.322	5.623	5.546	5.509
Dimensions	Unit	Height			mm	2,535									
		Width			mm	2,238									
		Depth			mm	9,088	2,514	3,594			4,674		5,754		
Weight	Unit				kg	6,792	2,129	2,678	2,800	2,885	3,420	3,634	4,150	4,266	4,377
	Operation weight				kg	7,331	2,272	2,851	2,975	3,064	3,658	3,904	4,520	4,636	4,747
Air heat exchanger	Type					Microchannel									
Compressor	Type					Scroll compressor									
	Quantity					8	2	3		4			5		
Fan	Type					Direct propeller									
	Quantity					16	4	6		8			10		
	Air flow rate	Cooling	Nom.		l/s	90,040	22,510	33,765		45,020			56,275		
Sound power level	Cooling	Nom.			dBA	99.5	93.5	94.8	95.3	95.1	96.1	96.5	96.9	97.2	97.5
Sound pressure level	Cooling	Nom.			dBA	77.6	74.4	75.1	75.6	75.4	75.9	76.3	76.2	76.5	76.8
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~46									
Refrigerant	Type/GWP					R-32/675									
	Charge				kg	90.0	26.0	30.0	33.0	37.0	42.0	47.0	50.0	54.0	58.0
	Circuits	Quantity				2		1		2					
Piping connections	Evaporator water inlet/outlet (OD)					139.7		88.9				139.7			
Unit	Starting current	Max			A	1,240	647	703	746	750	803	845	858	901	944
	Running current	Cooling	Nom.		A	642.5	160.7	202.1	239.6	253.6	282.7	322.7	327.1	364.3	401.6
		Max			A	792	199	255	298	302	355	397	410	453	496
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400									

Cooling Only					EWFT	720B-XSC2	760B-XSC2	830B-XSC2	880B-XSC2
SEER						5.219	5.193	5.251	5.243
Cooling capacity	Nom.				kW	945.8	1,002	1,100	1,156
Power input	Cooling	Nom.			kW	241.8	264.5	284.6	307.3
Capacity control	Method					Step			
	Minimum capacity				%	18	17	15	14
EER						3.912	3.789	3.865	3.763
IPLV						5.570	5.518	5.553	5.519
Dimensions	Unit	Height			mm	2,535			
		Width			mm	2,238			
		Depth			mm	6,834		8,008	
Weight	Unit				kg	4,975	5,086	5,879	5,991
	Operation weight				kg	5,404	5,515	6,352	6,464
Air heat exchanger	Type					Microchannel			
Compressor	Type					Scroll compressor			
	Quantity					6		7	
Fan	Type					Direct propeller			
	Quantity					12		14	
	Air flow rate	Cooling	Nom.		l/s	67,530		78,785	
Sound power level	Cooling	Nom.			dBA	98	98.3	98.7	98.9
Sound pressure level	Cooling	Nom.			dBA	76.9	77.1	77.2	77.4
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~46			
Refrigerant	Type/GWP					R-32/675			
	Charge				kg	66.0	69.0	75.0	80.0
	Circuits	Quantity				2			
Piping connections	Evaporator water inlet/outlet (OD)					139.7			
Unit	Starting current	Max			A	999	1,042	1,142	
	Running current	Cooling	Nom.		A	445.1	482.9	523.9	561.6
		Max			A	551	594	694	
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400			

Performances according to Chiller Configurator 1.4 software | Cooling: entering evaporator water temp. 26°C; leaving evaporator water temp. 18°C; ambient air temp. 35°C; ethylene glycol fluid 25%; full load operation.

Air cooled scroll compressor chiller with integrated free cooling Gold efficiency Standard sound



- R32 refrigerant;
- Nominal capacity up to 1,000 kW;
- Scroll compressors;
- Top class efficiency both at full and part load conditions;
- Best capacity with smallest footprint;
- Microchannel coils;
- Glycol free option;
- New Daikin MicroTech 4 controller.

EWFT-B-XRC

Cooling Only					EWFT	10B-XRC2	250B-XRC1	320B-XRC1	370B-XRC1	390B-XRC2	450B-XRC2	510B-XRC2	540B-XRC2	590B-XRC2	630B-XRC2
SEER						5.14	4.7	5.144	5.025	4.70	5.002	4.833	5.214	5.167	5.064
Cooling capacity	Nom.				kW	1,224	306.4	403.9	451.4	484.7	553.5	620.5	673.3	721.2	765.7
Power input	Cooling	Nom.			kW	383.2	95.79	114.4	142.5	146.9	162.7	192.9	184.1	211.7	239.6
Capacity control	Method					Step									
	Minimum capacity				%	25	50	39	33	18	16	25	14	22	20
EER						3.195	3.198	3.531	3.168	3.3	3.402	3.217	3.657	3.407	3.196
IPLV						5.568	5.118	5.587	5.431	5.094	5.373	5.305	5.650	5.567	5.515
Dimensions	Unit	Height			mm	2,535									
		Width			mm	2,238									
		Depth			mm	9,088	2,514	3,594			4,674		5,754		
Weight	Unit				kg	6,997	2,189	2,768	2,891	2,975	3,543	3,757	4,293	4,409	4,520
	Operation weight				kg	7,536	2,332	2,941	3,066	3,154	3,781	4,027	4,663	4,779	4,890
Air heat exchanger	Type					Microchannel									
Compressor	Type					Scroll compressor									
	Quantity					8	2	3		4			5		
Fan	Type					Direct propeller									
	Quantity					16	4	6		8			10		
	Air flow rate	Cooling	Nom.		l/s	90,040	22,510	33,765		45,020			56,275		
Sound power level	Cooling	Nom.			dBA	90	84	85.4	85.7	85.6	86.8	87	87.6	87.8	87.9
Sound pressure level	Cooling	Nom.			dBA	68.1	64.9	65.7	66.0	65.9	66.5	66.7	66.9	67.1	67.2
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~46									
Refrigerant	Type					R-32									
	Charge				kg	90.0	26.0	30.0	33.0	37.0	42.0	47.0	50.0	54.0	58.0
	Circuits	Quantity				2		1				2			
Piping connections	Evaporator water inlet/outlet (OD)					139.7			88.9				139.7		
Unit	Starting current	Max			A	1,240	647	703	746	750	803	845	858	901	944
	Running current	Cooling	Nom.		A	712.9	178.3	220.3	265.6	285.1	309.9	358.4	356	400.7	445.7
		Max			A	792	199	255	298	302	355	397	410	453	496
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400									

Cooling Only					EWFT	720B-XRC2	760B-XRC2	830B-XRC2	880B-XRC2
SEER						5.159	5.121	5.293	5.181
Cooling capacity	Nom.				kW	878.7	924.2	1,023	1,068
Power input	Cooling	Nom.			kW	260.1	288.3	306.6	334.8
Capacity control	Method					Step			
	Minimum capacity				%	18	17	15	14
EER						3.378	3.206	3.335	3.19
IPLV						5.620	5.549	5.598	5.563
Dimensions	Unit	Height			mm	2,535			
		Width			mm	2,238			
		Depth			mm	6,834		8,008	
Weight	Unit				kg	5,139	5,250	6,062	6,174
	Operation weight				kg	5,568	5,679	6,535	6,647
Air heat exchanger	Type					Microchannel			
Compressor	Type					Scroll compressor			
	Quantity					6		7	
Fan	Type					Direct propeller			
	Quantity					12		14	
	Air flow rate	Cooling	Nom.		l/s	67,530		78,785	
Sound power level	Cooling	Nom.			dBA	88.6	88.7	89.3	89.4
Sound pressure level	Cooling	Nom.			dBA	67.5	67.6	67.7	67.8
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~46			
Refrigerant	Type					R-32			
	Charge				kg	66.0	69.0	75.0	80.0
	Circuits	Quantity				2			
Piping connections	Evaporator water inlet/outlet (OD)					139.7			
Unit	Starting current	Max			A	999	1,042	1,142	
	Running current	Cooling	Nom.		A	490.5	536.1	577.5	623.1
		Max			A	551	594	694	
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400			

Performances according to Chiller Configurator 1.4 software | Cooling: entering evaporator water temp. 26°C; leaving evaporator water temp. 18°C; ambient air temp. 35°C; ethylene glycol fluid 25%; full load operation.

Air cooled Inverter screw free cooling with BLU efficiency. Standard sound.

- Environmentally conscious HFC134a – the most thermodynamically efficient refrigerant for air cooled applications
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,950 kW
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

EWFD TZ-D BS			275	320	345	400	470	510	525
Cooling Capacity (1)		kW	369.3	428	465.2	559.3	618.4	686.7	708.2
Power input (1)		kW	109.9	119	138	167.3	196	200.4	206.7
EER (1)			3.36	3.6	3.37	3.34	3.16	3.43	3.43
SEER (1)(2)			4.949	5.245	5.331	5.382	5.141	4.802	5.364
ηs,c (3)		%	195	207	210	212	203	189	212
SEPR (1)(2)			5.783	6.064	5.847	5.756	5.633	5.859	5.798
IPLV (5)			5.248	5.612	5.562	5.76	5.549	5.137	5.729
Full Free Cooling Temperature (12)		°C	3.27	7.12	5.99	3.08	1.21	4.5	3.97
Flow rate (1)		l/s	12.7	14.7	16	19.2	21.2	23.6	24.3
Evaporator Pressure Drop free cooling OFF (1)(6)		kPa	15.3	20.4	23.8	44.3	53.4	29.8	38.6
Unit pressure drop free cooling ON (12)(6)		kPa	96	74.3	85.2	128	154	96.4	115
Sound Power (1)(7)	Lw	dB(a)	97	98	100	97		99	98
	Lw with + OP76b	dB(a)	95	97		96		98	97
Number of circuits / Compressors			1					2	1
Water volume – open loop Free Cooling		Lt	40			42.7		270	58.1
Minimum Water flow rate (10)		l/s	7.6			5.94		8.6	10.2
Dimensions	Length	mm	2,560	3,640				4,720	
	Width	mm	2,238						
	Height	mm	2,553						
Weight (8)	Unit (8)	kg	2,626	3,136	3,136	3,581		4,045	4,154
	Operating weight (8)	kg	2,847	3,432		3,907	3,917	4,662	4,581
Water Connection Size		Ø mm	88.9			139.7		168.3	139.7
Unit	Running Current (1)(8)(11)	A	178	192	220	270	312	327	328
	Max Running Current (7)(8)(11)	A	220	262	284	346	362	411	400
	Current for Wiring Sizing (8)(11)	A	242	287	287	381	398	452	440
	Max Inrush Current (8)(9)(11)	A	0						

EWFD TZ-D BS			275	320	345	400	470	510
Cooling Capacity (1)		kW	369.3	428	465.2	559.3	618.4	686.7
Power input (1)		kW	109.9	119	138	167.3	196	200.4
EER (1)			3.36	3.6	3.37	3.34	3.16	3.43
SEER (1)(2)			4.949	5.245	5.331	5.382	5.141	4.802
ηs,c (3)		%	195	207	210	212	203	189
SEPR (1)(2)			5.783	6.064	5.847	5.756	5.633	5.859
IPLV (5)			5.248	5.612	5.562	5.76	5.549	5.137
Full Free Cooling Temperature (12)		°C	3.27	7.12	5.99	3.08	1.21	4.5
Flow rate (1)		l/s	12.7	14.7	16	19.2	21.2	23.6
Evaporator Pressure Drop free cooling OFF (1)(6)		kPa	15.3	20.4	23.8	44.3	53.4	29.8
Unit pressure drop free cooling ON (12)(6)		kPa	96	74.3	85.2	128	154	96.4
Sound Power (1)(7)	Lw	dB(a)	97	98	100	97		99
	Lw with + OP76b	dB(a)	95	97		96		98
Number of circuits / Compressors			1					2
Water volume – open loop Free Cooling		Lt	40			42.7		270
Minimum Water flow rate (10)		l/s	7.6			5.94		8.6
Dimensions	Length	mm	2,560	3,640				4,720
	Width	mm	2,238					
	Height	mm	2,553					
Weight (8)	Unit (8)	kg	2,626	3,136		3,581		4,045
	Operating weight (8)	kg	2,847	3,432	3,432	3,907	3,917	4,662
Water Connection Size		Ø mm	88.9			139.7		168.3
Unit	Running Current (1)(8)(11)	A	178	192	220	270	312	327
	Max Running Current (7)(8)(11)	A	220	262	284	346	362	411
	Current for Wiring Sizing (8)(11)	A	242	287		381	398	452
	Max Inrush Current (8)(9)(11)	A	0					

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0; | (2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow; | (3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); | (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; | (5) Based on AHRI conditions; | (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; | (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C; | (8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values; | (9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans. Value intended as guideline. Refer to unit nameplate for specific value; | (10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water; | (11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%; | (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.



MicroTech 4



EWFD-TZBSD

EWFD TZ-D BS			755	830	915	C10	H10	H11	C12
Cooling Capacity (1)		kW	1,017.5	1,112.2	1,216.3	1,554.9	1,438.6	1,558.6	1,664.1
Power input (1)		kW	281.5	324.5	362.9	473.1	450.4	475.5	504.9
EER (1)			3.61	3.43	3.35	3.290	3.190	3.280	3.300
SEER (1)(2)			5.456	5.327	5.217	5.132	5.282	5.362	5.458
ηs,c (3)		%	215	210	206	202	208	211	215
SEPR (1)(2)			6.05	5.862	5.92	5.605	5.674	5.684	5.713
IPLV (5)			5.839	5.674	5.628	5.474	5.650	5.783	5.753
Full Free Cooling Temperature (12)		°C	4.67	3.14	1.5	-0.01	1.33	1.65	3.22
Flow rate (1)		l/s	34.9	38.1	41.7	53.3	49.3	53.5	57.1
Evaporator Pressure Drop free cooling OFF (1)(6)		kPa	49.6	56.8	42.1	55.1	48.9	55.3	61.5
Unit pressure drop free cooling ON (12)(6)		kPa	120	141	140	199	150	147	145
Sound Power (1)(7)	Lw	dB(a)	99	100	99	100	101		102
	Lw with + OP76b	dB(a)	99				100		101
Number of circuits / Compressors			2						
Water volume – open loop Free Cooling		Lt	280		481		557		
Minimum Water flow rate (10)		l/s	12.9		15.3		18.2		
Dimensions	Length	mm	6,880				7,960	9,040	10,120
	Width	mm	2,238						
	Height	mm	2,553						
Weight (8)	Unit (8)	kg	5,549		5,806		6,427	6,936	7,446
	Operating weight (8)	kg	6,341	6,351	6,819	6,834	7,606	8,191	8,776
Water Connection Size		Ø mm	168.3				219.1		
Unit	Running Current (1)(8)(11)	A	460	524	582	745	712	749	792
	Max Running Current (7)(8)(11)	A	600	668		751	817	884	930
	Current for Wiring Sizing (8)(11)	A	660	735	735	826	896	935	947
	Max Inrush Current (8)(9)(11)	A	0						

EWFD TZ-D BS			C13	C14	C15	H16	H17	H18	H19
Cooling Capacity (1)		kW	1,798.7	1,884.6	2,067.5	2,175.4	2,269.8	2,450.5	2,554.3
Power input (1)		kW	555.2	608.0	657.0	673.3	743.2	827.9	956.3
EER (1)			3.240	3.100	3.150	3.230	3.050	2.960	2.670
SEER (1)(2)			5.392	5.299	5.339	5.414	5.336	5.185	5.225
ηs,c (3)		%	213	209	211	214	210	204	206
SEPR (1)(2)			5.399	5.436	5.373	6.629	6.410	6.167	5.992
IPLV (5)			5.705	5.579	5.589	5.971	5.829	5.779	5.685
Full Free Cooling Temperature (12)		°C	3.66	2.85	2.9	1.98	1.25	1.34	0.53
Flow rate (1)		l/s	61.7	64.6	70.9	74.6	77.8	84.0	87.6
Evaporator Pressure Drop free cooling OFF (1)(6)		kPa	69.4	74.9	51.2	55.5	59.3	66.1	70.8
Unit pressure drop free cooling ON (12)(6)		kPa	148	160	137	150	161	166	179
Sound Power (1)(7)	Lw	dB(a)	104	105	106	104	105	106	107
	Lw with + OP76b	dB(a)	101	102					
Number of circuits / Compressors			2						
Water volume – open loop Free Cooling		Lt	557		1,011				
Minimum water flow rate (10)		l/s	18.2		22.6				
Dimensions	Length	mm	11,200		12,280			13,360	
	Width	mm	2,238						
	Height	mm	2,553						
Weight (8)	Unit (8)	kg	7,956	8,277	9,157	9,561		10,070	
	Operating weight (8)	kg	9,366	9,697	11,117	11,535	11,550	12,140	12,150
Water Connection Size		Ø mm	219.1		273				
Unit	Running Current (1)(8)(11)	A	867	954	1,027	1,051	1,162	1,287	1,477
	Max Running Current (7)(8)(11)	A	948	1,120	1,200	1,227	1,340	1,475	1,608
	Current for Wiring Sizing (8)(11)	A	958	1,232	1,275	1,280	1,474	1,621	
	Max Inrush Current (8)(9)(11)	A	0						

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0; | (2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow; | (3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); | (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; | (5) Based on AHRI conditions; | (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; | (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C; | (8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values; | (9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans. Value intended as guideline. Refer to unit nameplate for specific value; | (10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water; | (11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%; | (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

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- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,950 kW
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

EWFD TZ-D SS			285	325	380	430	495	520	535
Cooling Capacity (1)		kW	382	442.2	497.8	565	668.2	698.1	726
Power input (1)		kW	98.8	115.8	134.6	156	185.9	189.7	198.4
EER (1)			3.87	3.82	3.7	3.62	3.6	3.68	3.66
SEER (1)(2)			5.263	5.535	5.711	5.727	5.422	5.128	5.459
ηs,c (3)		%	208	218	225	226	214	202	215
SEPR (1)(2)			6.279	6.358	6.233	6.068	6.048	5.816	6.077
IPLV (5)			5.706	5.873	5.918	6.074	5.885	5.419	6.016
Full Free Cooling Temperature (12)		°C	8.55	10.12	8.82	7.25	4.91	7.4	6.88
Flow rate (1)		l/s	13.1	15.2	17.1	19.4	22.9	23.9	24.9
Evaporator Pressure Drop free cooling OFF (1)(6)		kPa	16.3	17.7	35.8	45.1	34.8	31.2	40.5
Unit pressure drop free cooling ON (12)(6)		kPa	61.5	53.6	103	98.4	104	84.4	96.1
Sound Power (1)(7)	Lw	dB(a)	98	98	100	98	97	99	98
	Lw with + OP76b	dB(a)	96	98		97		99	98
Number of circuits / Compressors			1					2	1
Water volume – open loop Free Cooling		Lt	40	48		42.7	58.1	270	58.1
Minimum Water flow rate (10)		l/s	7.6	8.5		5.94	10.2	8.6	10.2
Dimensions	Length	mm	3,640	4,720				5,800	
	Width	mm	2,238						
	Height	mm	2,553						
Weight (8)	Unit (8)	kg	3,136	3,675		4,090	4,154	4,555	4,664
	Operating weight (8)	kg	3,427	4,045	4,050	4,487	4,576	5,237	5,161
Water Connection Size		Ø mm	88.9			139.7		168.3	139.7
Unit	Running Current (1)(8)(11)	A	161	187	215	253	297	311	316
	Max Running Current (7)(8)(11)	A	231	272	294	357	372	421	411
	Current for Wiring Sizing (8)(11)	A	254	298		392	410	463	452
	Max Inrush Current (8)(9)(11)	A	0						

EWFD TZ-D SS			555	585	595	650	645	705
Cooling Capacity (1)		kW	747.7	789.3	796.9	872.4	876.4	963
Power input (1)		kW	208	229	231.2	270.8	241.3	288.9
EER (1)			3.6	3.45	3.45	3.22	3.63	3.33
SEER (1)(2)			5.08	4.983	5.357	5.32	5.147	5.032
ηs,c (3)		%	200	196	211	210	203	198
SEPR (1)(2)			5.179	5.696	5.772	5.472	6.044	5.708
IPLV (5)			5.361	5.308	5.826	5.63	5.508	5.424
Full Free Cooling Temperature (12)		°C	6.49	5.74	5.6	4.23	6.78	5.49
Flow rate (1)		l/s	25.6	27.1	27.3	29.9	30.1	33
Evaporator Pressure Drop free cooling OFF (1)(6)		kPa	34.9	38.1	48.1	56.8	34.5	40.3
Unit pressure drop free cooling ON (12)(6)		kPa	93.8	101	112	131	90.6	105
Sound Power (1)(7)	Lw	dB(a)	99	101	98	101		103
	Lw with + OP76b	dB(a)	99		98		100	
Number of circuits / Compressors			2		1		2	
Water volume – open loop Free Cooling		Lt	270		58.1		255	
Minimum Water flow rate (10)		l/s	8.6		10.2		10.7	
Dimensions	Length	mm	5,800				6,880	
	Width	mm	2,238					
	Height	mm	2,553					
Weight (8)	Unit (8)	kg	4,555		4,664		5,083	
	Operating weight (8)	kg	5,242	5,247	5,166	5,176	5,835	5,840
Water Connection Size		Ø mm	168.3		139.7		168.3	
Unit	Running Current (1)(8)(11)	A	338	370	365	423	388	459
	Max Running Current (7)(8)(11)	A	450	481	467	474	523	566
	Current for Wiring Sizing (8)(11)	A	495	528	480		572	
	Max Inrush Current (8)(9)(11)	A	0					

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0; | (2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow; | (3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); | (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; | (5) Based on AHRI conditions; | (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; | (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C; | (8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values; | (9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans. Value intended as guideline. Refer to unit nameplate for specific value; | (10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water; | (11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%; | (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.



MicroTech 4



EWFD-TZSSD

			EWFD TZ-D SS	760	835	960	C10	H10	H11	H12
Cooling Capacity (1)		kW		1,006.2	1,119.7	1,280.8	1,356.0	1,402.2	1,554.9	1,712.6
Power input (1)		kW		264.1	311.5	365.7	406.7	429.1	473.1	506.7
EER (1)				3.81	3.6	3.5	3.330	3.270	3.290	3.380
SEER (1)(2)				5.659	5.558	5.444	5.349	5.338	5.362	5.492
ηs,c (3)		%		223	219	215	211	211	211	217
SEPR (1)(2)				6.322	6.015	6.062	5.618	5.613	5.684	5.764
IPLV (5)				6.045	5.875	5.8	5.680	5.709	5.697	5.967
Full Free Cooling Temperature (12)		°C		7	5.55	3.4	2.36	1.78	2.28	5.01
Flow rate (1)		l/s		34.5	38.4	43.9	46.5	48.1	53.3	58.7
Evaporator Pressure Drop free cooling OFF (1)(6)		kPa		48.3	58.1	44.8	49.0	46.9	55.1	63.9
Unit pressure drop free cooling ON (12)(6)		kPa		104	123	128	137	140	146	133
Sound Power (1)(7)	Lw	dB(a)		99		100		101		102
	Lw with + OP76b	dB(a)				100				101
Number of circuits / Compressors						2				
Water volume – open loop Free Cooling		Lt		280		481		557		
Minimum Water flow rate (10)		l/s		12.9		15.3		18.2		
Dimensions	Length	mm				7,960			9,040	11,200
	Width	mm					2,238			
	Height	mm					2,553			
Weight (8)	Unit (8)	kg		6,059		6,316	6,316	6,427	6,936	7,956
	Operating weight (8)	kg		6,916	6,926	7,404	7,409	7,601	8,191	9,356
Water Connection Size		Ø mm		168.3				219.1		
Unit	Running Current (1)(8)(11)	A		434	505	586	647	680	745	795
	Max Running Current (7)(8)(11)	A		610	679	706	761	789	884	948
	Current for Wiring Sizing (8)(11)	A		671	747	776	837	868	935	958
	Max Inrush Current (8)(9)(11)	A					0			

			EWFD TZ-D SS	H13	H14	H15	H16	H17	H18	H19
Cooling Capacity (1)		kW		1,849.0	1,998.9	2,057.0	2,175.4	2,344.7	2,450.5	2,554.3
Power input (1)		kW		561.0	622.3	572.2	673.3	732.0	827.9	956.3
EER (1)				3.300	3.210	3.600	3.230	3.200	2.960	2.670
SEER (1)(2)				5.510	5.340	5.382	5.414	5.408	5.185	5.225
ηs,c (3)		%		217	211	212	214	213	204	206
SEPR (1)(2)				5.503	5.524	6.997	6.629	6.471	6.167	5.992
IPLV (5)				5.764	5.690	6.081	5.971	5.891	5.779	5.685
Full Free Cooling Temperature (12)		°C		4.8	3.52	3.03	1.98	2.18	1.34	0.53
Flow rate (1)		l/s		63.4	68.6	70.5	74.6	80.4	84.0	87.6
Evaporator Pressure Drop free cooling OFF (1)(6)		kPa		72.6	48.6	50.8	55.5	61.4	66.1	70.8
Unit pressure drop free cooling ON (12)(6)		kPa		141	129	136	150	154	166	179
Sound Power (1)(7)	Lw	dB(a)		104	105	103	104	105	106	107
	Lw with + OP76b	dB(a)					102			
Number of circuits / Compressors							2			
Water volume – open loop Free Cooling		Lt		557			1,011			
Minimum Water flow rate (10)		l/s		18.2			22.6			
Dimensions	Length	mm				12,280			13,360	
	Width	mm					2,238			
	Height	mm					2,553			
Weight (8)	Unit (8)	kg		8,465	9,157	9,561	9,561		10,070	
	Operating weight (8)	kg		9,945	11,107	11,520	11,535	12,130	12,140	12,150
Water Connection Size		Ø mm		219.1	273	273	273	273	273	273
Unit	Running Current (1)(8)(11)	A		875	975	901	1,051	1,145	1,287	1,477
	Max Running Current (7)(8)(11)	A		1,187	1,156	1,124	1,227	1,351	1,475	1,608
	Current for Wiring Sizing (8)(11)	A		1,248	1,271	1,237	1,280	1,486	1,621	1,621
	Max Inrush Current (8)(9)(11)	A					0			

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0; | (2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow; | (3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); | (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; | (5) Based on AHRI conditions; | (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; | (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C; | (8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values; | (9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans. Value intended as guideline. Refer to unit nameplate for specific value; | (10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water; | (11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%; | (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

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- Unique fully integrated active harmonic filtration solution
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

EWFD-TZXSD					10TZXSD2000	10TZXSD2000	11TZXSD2000	12TZXSD2000	12TZXSD2000	13TZXSD2000	14TZXSD2000	15TZXSD2000	16TZXSD2000	17TZXSD2000
SEER					5.952	6.099	5.419	5.809	6	5.981	5.69	5.512	5.517	5.368
Cooling capacity	Nom.			kW	1,415.38	1,345.28	1,524.63	1,730.56	1,621.86	1,814.3	1,952.16	2,065.72	2,200.84	2,323.94
Power input	Cooling			kW	396.8	356.55	415.43	509.14	461.94	535.19	490.74	577.66	660.12	760.95
Capacity control	Method				Stepless									
	Minimum capacity			%	10.5	11.5	10.5	10			15	13.5	12.5	11.5
EER					3.57	3.77	3.67	3.4	3.51	3.39	3.98	3.58	3.33	3.05
IPLV					6.418	6.591	6.605	6.38	6.44	6.347	6.404	6.197	6.076	5.915
Dimensions	Unit	Height		mm	2,553									
		Width		mm	2,238									
		Depth		mm	10,120			11,200		12,280	13,360			
Weight	Unit			kg	7,390			8,011		8,892	10,070			
	Operation weight			kg	8,619	8,609	9,391	9,416	9,401	10,826	12,080	12,095	12,110	12,125
Air heat exchanger	Type				Microchannel									
Compressor	Type				Screw compressor									
	Quantity				2									
Fan	Type				Direct propeller									
	Quantity				18			20		22	24			
	Air flow rate	Cooling	Nom.	l/s	11,385			12,650		13,915	15,180			
Sound power level	Cooling	Nom.		dBA	102.3	101	102.9	107.5	105.2	106.1	102	102.8	103.7	104.5
Sound pressure level	Cooling	Nom.		dBA	77.5	76.8	77.6	78	77.9	79.1	78.9	79.7	80.5	81.4
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46									
Refrigerant	Type/GWP				R-134A/1,430									
	Charge			kg	145	135	155	180	165	190	200	215	230	245
	Circuits	Quantity			2									
Piping connections	Evaporator water inlet/outlet (OD)				219.1					273				
Unit	Starting current	Max			0									
	Running current	Cooling	Nom.		632	572	660	799	729	837	780	909	1,031	1,188
		Max			782	720	744	851	803	899	997	1,103	1,217	1,330
Power supply	Phase/Frequency/Voltage				3/50/400									

EWFD					295TZXSD1000	345TZXSD1000	380TZXSD1000	440TZXSD1000	515TZXSD1000	525TZXSD2000	565TZXSD2000	565TZXSD1000	610TZXSD2000	635TZXSD1000
SEER					5.513	5.77	5.694	6.127	5.991	5.812	5.746	6.002	5.825	5.971
Cooling capacity	Nom.			kW	401.17	469.25	513.31	601.95	696.19	726.87	780.49	745.59	816.11	855.97
Power input	Cooling			kW	107.12	119.37	140.94	143.9	183.64	172.98	192.57	190.54	203.72	235.03
Capacity control	Method				Stepless									
	Minimum capacity			%	21.5	19	16.5	27.5	23	12.5	11.5	21.5	10.5	19
EER					3.74	3.93	3.64	4.18	3.79	4.2	4.05	3.91	4.01	3.64
IPLV					6.087	6.309	6.223	6.763	6.548	6.305	6.193	6.747	6.275	6.544
Dimensions	Unit	Height		mm	2,553									
		Width		mm	2,238									
		Depth		mm	3,640	4,720		5,800		6,880			7,960	6,880
Weight	Unit			kg	3,307	3,846		4,720		5,254		5,315	5,763	5,315
	Operation weight			kg	3,598	4,216	4,221	5,202	5,212	5,986	5,996	5,897	6,576	5,907
Air heat exchanger	Type				Microchannel									
Compressor	Type				Screw compressor									
	Quantity				1					2		1	2	1
Fan	Type				Direct propeller									
	Quantity				6	8		10		12			14	12
	Air flow rate	Cooling	Nom.	l/s	3,795	5,060		6,325		7,590			8,855	7,590
Sound power level	Cooling	Nom.		dBA	97.5	98.1	102.6	95.7	97.5	100.1	100.3	100.1	100.6	104.6
Sound pressure level	Cooling	Nom.		dBA	79.9	81.8	82.8	74.6	75.8	78.9	80.2	76.2	81.2	76.6
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46									
Refrigerant	Type/GWP				R-134A/1,430									
	Charge			kg	40	45	50	60	70		80	75	85	
	Circuits	Quantity			1					2		1	2	1
Piping connections	Evaporator water inlet/outlet (OD)				88.9			139.7		168.3		139.7	168.3	139.7
Unit	Starting current	Max			0									
	Running current	Cooling	Nom.		174	192	224	235	294	286	315	304	332	370
		Max			224	261	289	314	342	389	429	404	457	452
Power supply	Phase/Frequency/Voltage				3/50/400									



MicroTech 4



EWFD-TZXSD

					EWFD	670TZXSD2000	705TZXSD1000	725TZXSD2000	760TZXSD1000	805TZXSD2000	880TZXSD2000	950TZXSD2000
SEER						5.719	5.379	5.728	5.305	5.937	6.09	5.977
Cooling capacity	Nom.			kW		887.31	931.88	961.82	1,005.8	1,092.87	1,196.64	1,293.63
Power input	Cooling			kW		230.65	236.46	257.52	284.2	284.08	310.25	357.95
Capacity control	Method					Stepless						
	Minimum capacity			%		10	30	10	27.5	10	13.5	12.5
EER						3.85	3.94	3.73	3.54	3.85	3.86	3.61
IPLV						6.135	5.859	6.225	5.769	6.482	6.614	6.459
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		7,960	6,880	7,960	6,880	9,040		
Weight	Unit			kg		5,763	5,984	5,834	5,984	6,624	6,881	
	Operation weight			kg		6,581	6,586	6,704	6,596	7,753	8,019	8,029
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2	1	2	1	2		
Fan	Type					Direct propeller						
	Quantity					14	12	14	12	16		
	Air flow rate	Cooling	Nom.	l/s		8,855	7,590	8,855	7,590	10,120		
Sound power level	Cooling	Nom.		dBA		100.9	99	102.3	99.8	104.6	98.4	100.3
Sound pressure level	Cooling	Nom.		dBA		83.3	77.8	83.8	78.6	83.9	76.1	76.5
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46						
Refrigerant	Type/GWP					R-134A/1,430						
	Charge			kg		90	95	100	105	110	120	130
	Circuits	Quantity				2	1	2	1	2		
Piping connections	Evaporator water inlet/outlet (OD)					168.3	139.7	168.3	139.7	219.1		
Unit	Starting current	Max				0						
	Running current	Cooling	Nom.			372	377	412	448	452	503	574
		Max				498	520	535	568	573	626	683
Power supply	Phase/Frequency/Voltage					3/50/400						

Air cooled Inverter screw free cooling with PLATINUM efficiency. Standard sound.

- Environmentally conscious HFC134a – the most thermodynamically efficient refrigerant for air cooled applications
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,950 kW
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

EWFD						10TZPSD2000	10TZPSD2000	11TZPSD2000	12TZPSD2000	12TZPSD2000	13TZPSD2000	14TZPSD2000	15TZPSD2000	285TZPSD1000	330TZPSD1000
SEER						6.411	6.274	6.44	6.189	6.286	6.18	5.85	5.671	6.018	6.229
Cooling capacity	Nom.				kW	1,326.86	1,449.2	1,496.98	1,734.57	1,619.43	1,847.58	1,954.24	2,069.82	384.11	452.16
Power input	Cooling				kW	330.48	382.27	378.98	481.29	433.58	517.97	481.1	565.53	87.52	104.14
Capacity control	Method					Stepless									
	Minimum capacity				%	11.5	10.5			10		15	13.5	23	20
EER						4.01	3.79	3.95	3.6	3.73	3.57	4.06	3.66	4.39	4.34
IPLV						6.876	6.739	6.964	6.639	6.778	6.674	6.585	6.367	6.73	6.82
Dimensions	Unit	Height			mm	2,553									
		Width			mm	2,238									
		Depth			mm	11,200			12,280			13,360		4,720	5,800
Weight	Unit				kg	7,900		8,521	8,892	8,521	9,402	10,070		3,846	4,356
	Operation weight				kg	9,189	9,199	9,971	10,816	9,976	11,401	12,085	12,100	4,211	4,791
Air heat exchanger	Type					Microchannel									
Compressor	Type					Screw compressor									
	Quantity					2								1	
Fan	Type					Direct propeller									
	Quantity					20			22			24		8	10
	Air flow rate	Cooling	Nom.		l/s	12,650			13,915			15,180		5,060	6,325
Sound power level	Cooling	Nom.			dBA	101.1	102.4	103	107.5	105.2	106.2	102	102.8	97.5	98.1
Sound pressure level	Cooling	Nom.			dBA	76.6	77.3	77.4	77.9	77.7	78.9		79.7	78.2	81
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~46									
Refrigerant	Type/GWP					R-134A/1,430									
	Charge				kg	140	150	160	180	165	190	205	220	40	45
	Circuits	Quantity				2								1	
Piping connections	Evaporator water inlet/outlet (OD)					219.1			273	219.1		273		88.9	
Unit	Starting current	Max				0									
	Running current	Cooling	Nom.			637	685	605	757	687	812	766	891	145	169
		Max				709	761	796	893	845	951	1,039	1,135	220	258
Power supply	Phase/Frequency/Voltage					3/50/400									

EWFD						370TZPSD1000	405TZPSD1000	450TZPSD1000	490TZPSD1000	530TZPSD2000	575TZPSD2000	615TZPSD2000	675TZPSD2000	735TZPSD2000	810TZPSD2000
SEER						6.138	6.369	6.325	6.262	6.194	6.108	6.056	5.971	6.024	6.262
Cooling capacity	Nom.				kW	500.07	559.54	621.98	642	730.72	792.78	811.77	919.56	998.68	1,105.28
Power input	Cooling				kW	122.84	121.3	138.19	138.4	166.83	187.02	187.35	220.31	252.26	263.6
Capacity control	Method					Stepless									
	Minimum capacity				%	17.5	30	27.5	25	12.5	11.5	10.5		10	
EER						4.07	4.61	4.5	4.64	4.38	4.24	4.33	4.17	3.96	4.19
IPLV						6.691	7.327	7.623	7.171	6.719	6.613	6.593	6.435	6.529	6.853
Dimensions	Unit	Height			mm	2,553									
		Width			mm	2,238									
		Depth			mm	5,800		6,880		7,960			9,040		10,120
Weight	Unit				kg	4,356	5,229	5,315		5,763		6,273		6,344	7,134
	Operation weight				kg	4,796	5,771	5,882	5,887	6,566	6,571	7,151	7,161	7,279	8,327
Air heat exchanger	Type					Microchannel									
Compressor	Type					Screw compressor									
	Quantity					1				2					
Fan	Type					Direct propeller									
	Quantity					10		12		14			16		18
	Air flow rate	Cooling	Nom.		l/s	6,325		7,590		8,855			10,120		11,385
Sound power level	Cooling	Nom.			dBA	100.4	94.7	96	97.7	100.2	100.4	100.7	101	102.3	104.6
Sound pressure level	Cooling	Nom.			dBA	81.9	74.2	74.5	74.9	78.6	79.9	80.9	83	83.4	83.6
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~46									
Refrigerant	Type/GWP					R-134A/1,430									
	Charge				kg	50	55	60	65	75	80	85	95	100	110
	Circuits	Quantity				1				2					
Piping connections	Evaporator water inlet/outlet (OD)					88.9		139.7		168.3					219.1
Unit	Starting current	Max				0									
	Running current	Cooling	Nom.			197	201	226		277	307	308	357	404	421
		Max				285	293	352	404	399	429	468	508	535	573
Power supply	Phase/Frequency/Voltage					3/50/400									



MicroTech 4



EWFD-TZPSD

					EWFD	890TZPSD2000	960TZPSD2000
SEER						6.488	6.363
Cooling capacity	Nom.			kW		1,177.66	1,275.17
Power input	Cooling			kW		282.75	320.56
Capacity control	Method					Stepless	
	Minimum capacity			%		13.5	12.5
EER						4.16	3.98
IPLV						7.078	6.894
Dimensions	Unit	Height		mm		2,553	
		Width		mm		2,238	
		Depth		mm		10,120	
Weight	Unit			kg		7,390	
	Operation weight			kg		8,594	8,604
Air heat exchanger	Type					Microchannel	
Compressor	Type					Screw compressor	
	Quantity					2	
Fan	Type					Direct propeller	
	Quantity					18	
	Air flow rate	Cooling	Nom.	l/s		11,385	
Sound power level	Cooling	Nom.		dBA		98.6	100.4
Sound pressure level	Cooling	Nom.		dBA		75.9	76.3
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46	
Refrigerant	Type/GWP					R-134A/1,430	
	Charge			kg		120	130
	Circuits	Quantity				2	
Piping connections	Evaporator water inlet/outlet (OD)					219.1	
Unit	Starting current	Max				0	
	Running current	Cooling	Nom.			462	519
		Max				616	672
Power supply	Phase/Frequency/Voltage					3/50/400	

Air cooled Inverter screw free cooling with BLU efficiency. Standard sound.

- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,600 kW
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

EWFH TZ-D BS			235	255	300	350	400	400	420
Cooling Capacity (1)		kW	313.9	346	406.4	483.9	531.2	538.7	557.2
Power input (1)		kW	96.1	116.2	154.3	142.4	172.9	144.6	190
EER (1)			3.27	2.98	2.63	3.4	3.07	3.73	2.93
SEER (1)(2)			5.059	4.998	4.723	5.229	5.089	4.974	5.053
ηs,c (3)		%	199	197	186	206	201	196	199
SEPR (1)(2)			5.774	5.486	5.116	5.742	5.475	6.007	5.278
IPLV (5)			5.386	5.251	4.93	5.67	5.47	5.334	5.364
Full Free Cooling Temperature (12)		°C	5.8	4.29	1.46	5.42	3.96	7.87	3.08
Flow rate (1)		l/s	10.8	11.9	13.9	16.6	18.2	18.5	19.1
Evaporator Pressure Drop free cooling OFF (1)(6)		kPa	11.3	13.5	14.8	33.7	40.3	28.5	44
Unit pressure drop free cooling ON (12)(6)		kPa	74.4	85.8	112	99.1	117	78.7	127
Sound Power (1)(7)	Lw	dB(a)	98	100	101	97	98	97	98
	Lw with + OP76b	dB(a)	93		95	92	93	94	93
Number of circuits / Compressors			1					2	1
Water volume – open loop Free Cooling		Lt	40		48	42.7		152	42.7
Minimum Water flow rate (10)		l/s	7.6	7.6	8.5	5.94	5.94	8.7	5.94
Dimensions	Length	mm	2,560			3,640		4,720	3,640
	Width	mm	2,238						
	Height	mm	2,553						
Weight (8)	Unit (8)	kg	2,626	2,626	2,656	3,581		3,874	3,581
	Operating weight (8)	kg	2,882	2,887	2,938	3,927.7	3,932.7	4,510	3,932.7
Water Connection Size		Ø mm	88.9			139.7			
Unit	Running Current (1)(8)(11)	A	157	187	244	233	278	238	304
	Max Running Current (7)(8)(11)	A	204	227	268	291	334	334	355
	Current for Wiring Sizing (8)(11)	A	224	249	275	320	367	368	391
	Max Inrush Current (8)(9)(11)	A	0						

EWFH TZ-D BS			425	455	485	505	545	545
Cooling Capacity (1)		kW	566.5	594.2	663.9	651.8	717.4	747.2
Power input (1)		kW	158.4	218.7	195.8	242.4	250.2	238.9
EER (1)			3.58	2.72	3.39	2.69	2.87	3.13
SEER (1)(2)			4.912	4.925	4.875	4.875	5.148	4.819
ηs,c (3)		%	193	194	192	192	203	190
SEPR (1)(2)			5.912	5.019	5.767	4.875	5.047	5.545
IPLV (5)			5.262	4.994	5.224	5.082	5.233	5.172
Full Free Cooling Temperature (12)		°C	7.21	1.94	4.99	0.25	3.75	3
Flow rate (1)		l/s	19.4	20.4	22.8	22.4	24.6	25.6
Evaporator Pressure Drop free cooling OFF (1)(6)		kPa	31	49.5	35.1	32.9	39.8	35.7
Unit pressure drop free cooling ON (12)(6)		kPa	85.5	143	98.2	143	118	113
Sound Power (1)(7)	Lw	dB(a)	100		101	102	103	103
	Lw with + OP76b	dB(a)	95	93	96	94	95	96
Number of circuits / Compressors			2	1	2	1		2
Water volume – open loop Free Cooling		Lt	152	42.7	255	58.1	58.1	232
Minimum Water flow rate (10)		l/s	8.7	5.94	8.6	10.2	10.2	10.7
Dimensions	Length	mm	4,720	3,640	4,720	3,640	4,720	
	Width	mm	2,238					
	Height	mm	2,553					
Weight (8)	Unit (8)	kg	3,874	3,581	4,064	3,966	4,475	4,093
	Operating weight (8)	kg	4,515	3,937.7	4,915	4,364.1	4,943.1	4,909
Water Connection Size		Ø mm	139.7		168.3	139.7		168.3
Unit	Running Current (1)(8)(11)	A	258	346	320	381	393	384
	Max Running Current (7)(8)(11)	A	358	396	406	435	463	452
	Current for Wiring Sizing (8)(11)	A	394	436	447	457	468	497
	Max Inrush Current (8)(9)(11)	A	0					

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0; | (2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow; | (3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); | (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; | (5) Based on AHRI conditions; | (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; | (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C; | (8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values; | (9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans. Value intended as guideline. Refer to unit nameplate for specific value; | (10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water; | (11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%; | (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.



MicroTech 4



EWFH-TZBSD

			EWFH TZ-D BS	590	635	745	785	845	900	985
Cooling Capacity (1)			kW	787.5	861.2	998.9	1,051	1,136.3	1,213.7	1,324.7
Power input (1)			kW	248.7	289.1	287.6	320.6	361.1	377.9	443.3
EER (1)				3.17	2.98	3.47	3.28	3.15	3.21	2.99
SEER (1)(2)				4.948	4.899	5.268	5.165	5.139	5.268	5.129
ηs,c (3)			%	195	193	208	204	203	208	202
SEPR (1)(2)				5.432	5.436	5.834	5.618	5.506	5.536	5.21
IPLV (5)				5.275	5.242	5.594	5.496	5.443	5.506	5.399
Full Free Cooling Temperature (12)			°C	5.78	4.4	4.94	4.09	2.74	4.32	2.78
Flow rate (1)			l/s	27	29.5	34.3	36	39	41.6	45.4
Evaporator Pressure Drop free cooling OFF (1)(6)			kPa	47.5	44.8	47.4	51.6	58	64.9	59.5
Unit pressure drop free cooling ON (12)(6)			kPa	110	116		127	137	130	142
Sound Power (1)(7)	Lw		dB(a)	104	105	100		101		103
	Lw with + OP76b		dB(a)	97	98	95		96		97
Number of circuits / Compressors				2						
Water volume – open loop Free Cooling			Lt	255	232	280		492	492	583
Minimum Water flow rate (10)			l/s	8.6	10.7	12.9		12.3	12.3	14.6
Dimensions	Length		mm	5,800		6,880			7,960	
	Width		mm	2,238						
	Height		mm	2,553						
Weight (8)	Unit (8)		kg	4,573	4,603	5,549		5,793	6,303	6,392
	Operating weight (8)		kg	5,505	5,494	6,616	6,626	7,299	7,884	8,165
Water Connection Size			Ø mm	168.3				219.1		
Unit	Running Current (1)(8)(11)		A	399	472	469	519	579	604	701
	Max Running Current (7)(8)(11)		A	494	895	581	624	667	719	801
	Current for Wiring Sizing (8)(11)		A	535	901	639	686	733	791	880
	Max Inrush Current (8)(9)(11)		A	0						

			EWFH TZ-D BS	C11	H11	C13	H13	H14	C15	H15
Cooling Capacity (1)			kW	1,479.5	1,571.8	1,724.5	1,815.6	1,944.9	1,996.8	2,083.0
Power input (1)			kW	487.5	542.9	527.7	603.8	659.1	724.8	758.8
EER (1)				3.040	2.890	3.270	3.010	2.950	2.760	2.740
SEER (1)(2)				5.106	4.996	5.425	5.348	5.365	5.278	5.295
ηs,c (3)			%	201	197	214	211	212	208	209
SEPR (1)(2)				5.17	5.051	6.572	6.304	6.249	6.097	6.134
IPLV (5)				5.392	5.238	5.966	5.902	5.812	5.741	5.748
Full Free Cooling Temperature (12)			°C	3.18	2.15	2.56	1.67	2.28	1.8	2.79
Flow rate (1)			l/s	50.7	53.9	59.1	62.3	66.7	68.5	71.4
Evaporator Pressure Drop free cooling OFF (1)(6)			kPa	45.2	49.4	38.7	41.9	46.8	48.3	52.9
Unit pressure drop free cooling ON (12)(6)			kPa	128	142	130	141	139	146	140
Sound Power (1)(7)	Lw		dB(a)	105	107	104	105	106	107	
	Lw with + OP76b		dB(a)	98				99		
Number of circuits / Compressors				2						
Water volume – open loop Free Cooling			Lt	1,043		1,011				
Minimum Water flow rate (10)			l/s	18.1		22.6				
Dimensions	Length		mm	9,040		10,120		11,200		12,280
	Width		mm	2,238						
	Height		mm	2,553						
Weight (8)	Unit (8)		kg	7,587		8,542		9,051		9,561
	Operating weight (8)		kg	10,366	10,376	11,347		11,946	11,956	12,536
Water Connection Size			Ø mm	273						
Unit	Running Current (1)(8)(11)		A	767	849	835	948	1,030	1,135	1,185
	Max Running Current (7)(8)(11)		A	889	927	1,015	1,106	1,218	1,330	1,400
	Current for Wiring Sizing (8)(11)		A	935	935	1,116	1,210	1,340	1,463	1,540
	Max Inrush Current (8)(9)(11)		A	0						

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0; | (2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow; | (3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); | (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; | (5) Based on AHRI conditions; | (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; | (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C; | (8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values; | (9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans. Value intended as guideline. Refer to unit nameplate for specific value; | (10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water; | (11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%; | (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

Air cooled Inverter screw free cooling with SILVER efficiency. Standard sound.

- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,600 kW
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

EWFH TZ-D SS			240	265	295	370	400	415	450
Cooling Capacity (1)		kW	322.7	352.6	403.9	493.5	539.1	555.6	599.4
Power input (1)		kW	87.7	102.1	121.9	133.5	141.8	164.8	177.8
EER (1)			3.68	3.45	3.32	3.7	3.8	3.37	3.37
SEER (1)(2)			5.37	5.267	5.211	5.412	5.195	5.299	5.284
ηs,c (3)		%	212	208	205	213	205	209	208
SEPR (1)(2)			6.171	5.977	5.813	6.055	4.695	5.451	5.621
IPLV (5)			5.695	5.62	5.412	5.962	5.56	5.678	5.767
Full Free Cooling Temperature (12)		°C	10.35	9.44	7.85	8.91	10.36	7.47	6.47
Flow rate (1)		l/s	11.1	12.1	13.9	16.9	18.5	19.1	20.6
Evaporator Pressure Drop free cooling OFF (1)(6)		kPa	11.9	14.1	14.6	35.1	28.7	43.4	28.1
Unit pressure drop free cooling ON (12)(6)		kPa	46.3	53.8	64.1	78.3	64.1	95.8	86.4
Sound Power (1)(7)	Lw	dB(a)	98	100	102	97	98		
	Lw with + OP76b	dB(a)	94	94	95	93	95	94	
Number of circuits / Compressors			1				2	1	
Water volume – open loop Free Cooling		Lt	40	40	48	42.7	152	42.7	58.1
Minimum Water flow rate (10)		l/s	7.6	7.6	8.5	5.94	8.7	5.94	10.2
Dimensions	Length	mm	3,640			4,720	5,800	4,720	
	Width	mm	2,238						
	Height	mm	2,553						
Weight (8)	Unit (8)	kg	3,136	3,136	3,166	4,090	4,384	4,090	4,154
	Operating weight (8)	kg	3,462	3,462	3,513	4,502.7	5,085	4,507.7	4,607.1
Water Connection Size		Ø mm	88.9			139.7			
Unit	Running Current (1)(8)(11)	A	145	166	196	219	234	266	285
	Max Running Current (7)(8)(11)	A	214	237	259	302	345	344	365
	Current for Wiring Sizing (8)(11)	A	235	261	285	332	379	379	402
	Max Inrush Current (8)(9)(11)	A	0						

EWFH TZ-D SS			470	490	535	540	595	630
Cooling Capacity (1)		kW	629.2	650.1	681.2	717.6	803.4	850.3
Power input (1)		kW	175.5	206	194.5	227.4	231.9	252.2
EER (1)			3.59	3.16	3.5	3.16	3.46	3.37
SEER (1)(2)			5.058	5.208	5.097	5.441	5.15	5.072
ηs,c (3)		%	199	205	201	215	203	200
SEPR (1)(2)			5.92	5.389	5.871	5.303	3.933	5.644
IPLV (5)			5.39	5.594	5.423	5.459	5.509	5.431
Full Free Cooling Temperature (12)		°C	8.69	5.31	7.71	7.04	7.92	7.2
Flow rate (1)		l/s	21.6	22.3	23.4	24.6	27.6	29.2
Evaporator Pressure Drop free cooling OFF (1)(6)		kPa	37.4	32.8	36.4	39.3	39.6	43.5
Unit pressure drop free cooling ON (12)(6)		kPa	82.8	98.6	88.6	93.9	88.7	97.1
Sound Power (1)(7)	Lw	dB(a)	101			102	104	105
	Lw with + OP76b	dB(a)	96	94	97	95	98	
Number of circuits / Compressors			2	1	2	1	2	
Water volume – open loop Free Cooling		Lt	152	58.1	255	58.1	232	232
Minimum Water flow rate (10)		l/s	8.7	10.2	8.6	10.2	10.7	10.7
Dimensions	Length	mm	5,800	4,720	5,800		6,880	
	Width	mm	2,238					
	Height	mm	2,553					
Weight (8)	Unit (8)	kg	4,384	4,154	4,573	4,985	5,113	5,113
	Operating weight (8)	kg	5,095	4,612.1	5,495	5,518.1	6,064	6,069
Water Connection Size		Ø mm	139.7		168.3	139.7	168.3	
Unit	Running Current (1)(8)(11)	A	290	327	318	359	374	404
	Max Running Current (7)(8)(11)	A	405	406	428	455	495	526
	Current for Wiring Sizing (8)(11)	A	445	447	471	480	544	570
	Max Inrush Current (8)(9)(11)	A	0					

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0; | (2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow; | (3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); | (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; | (5) Based on AHRI conditions; | (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; | (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C; | (8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values; | (9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans. Value intended as guideline. Refer to unit nameplate for specific value; | (10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water; | (11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%; | (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.



MicroTech 4



EWFH-TZSSD

EWFH TZ-D SS			690	740	795	855	910	980	C10
Cooling Capacity (1)		kW	941.1	995.8	1,069	1,144.7	1,219.8	1,331.5	1,404.6
Power input (1)		kW	261.8	284.4	310.2	341.5	360.9	401.6	417.8
EER (1)			3.6	3.5	3.45	3.35	3.38	3.32	3.360
SEER (1)(2)			5.348	5.253	5.277	5.348	5.38	5.381	5.392
ηs,c (3)		%	211	207	208	211	212	212	213
SEPR (1)(2)			5.917	5.831	5.813	5.67	5.643	5.437	3.898
IPLV (5)			5.69	5.6	5.662	5.622	5.657	5.622	5.638
Full Free Cooling Temperature (12)		°C	5.8	4.99	6.19	5.23	6.18	6.63	7.32
Flow rate (1)		l/s	32.3	34.2	36.7	39.3	41.8	45.7	48.2
Evaporator Pressure Drop free cooling OFF (1)(6)		kPa	43	47.3	53.6	56.8	62.7	77.7	64.4
Unit pressure drop free cooling ON (12)(6)		kPa	106	115	114	124	122	130	118
Sound Power (1)(7)	Lw	dB(a)	99	100	101		102	103	104
	Lw with + OP76b	dB(a)	95		96		97		98
Number of circuits / Compressors			2						
Water volume – open loop Free Cooling		Lt	280	280	280	492	492	492	583
Minimum Water flow rate (10)		l/s	12.9	12.9	12.9	12.3	12.3	12.3	14.6
Dimensions	Length	mm	6,880	6,880	7,960	7,960	9,040	10,120	11,200
	Width	mm	2,238	2,238	2,238	2,238	2,238	2,238	2,238
	Height	mm	2,553	2,553	2,553	2,553	2,553	2,553	2,553
Weight (8)	Unit (8)	kg	5,549	5,549	6,059	6,303	6,812	7,322	7,920
	Operating weight (8)	kg	6,611	6,616	7,201	7,879	8,459	9,044	9,899
Water Connection Size		Ø mm	168.3			219.1			
Unit	Running Current (1)(8)(11)	A	431	465	503	550	579	639	663
	Max Running Current (7)(8)(11)	A	538	581	634	677	729	802	852
	Current for Wiring Sizing (8)(11)	A	592	639	698	745	802	882	937
	Max Inrush Current (8)(9)(11)	A	0						

EWFH TZ-D SS			C11	C12	H12	H13	C14	C15	H15
Cooling Capacity (1)		kW	1,500.1	1,650.7	1,760.0	1,860.7	1,974.1	2,038.4	2,148.5
Power input (1)		kW	448.7	524.5	508.1	582.6	634.8	649.6	772.0
EER (1)			3.340	3.150	3.460	3.190	3.110	3.140	2.780
SEER (1)(2)			5.353	5.19	5.529	5.447	5.523	5.559	5.47
ηs,c (3)		%	211	205	218	215	218	219	216
SEPR (1)(2)			5.5	5.066	6.752	6.444	6.392	6.385	6.239
IPLV (5)			5.592	5.422	6.121	5.964	6.063	6.076	5.970
Full Free Cooling Temperature (12)		°C	6.39	5.05	4.05	3.09	3.75	4.6	3.86
Flow rate (1)		l/s	51.4	56.6	60.4	63.8	67.7	69.9	73.7
Evaporator Pressure Drop free cooling OFF (1)(6)		kPa	45.4	53.4	39.8	43.5	47.7	50.2	53.5
Unit pressure drop free cooling ON (12)(6)		kPa	104	119	117	129	128	121	133
Sound Power (1)(7)	Lw	dB(a)	105	107	104	105	106	107	108
	Lw with + OP76b	dB(a)	98	99	98	98	99	100	
Number of circuits / Compressors			2						
Water volume – open loop Free Cooling		Lt	1,043		1,011				
Minimum Water flow rate (10)		l/s	18.1	18.1	22.6	22.6	22.6	22.6	22.6
Dimensions	Length	mm	11,200				12,280	13,360	
	Width	mm	2,238						
	Height	mm	2,553						
Weight (8)	Unit (8)	kg	8,606		9,051		9,561	10,070	
	Operating weight (8)	kg	11,515	11,530	11,926	11,936	12,521	13,106	13,116
Water Connection Size		Ø mm	273						
Unit	Running Current (1)(8)(11)	A	709	821	806	916	994	1,023	1,205
	Max Running Current (7)(8)(11)	A	891	948	1,025	1,117	1,228	1,351	1,410
	Current for Wiring Sizing (8)(11)	A	958		1,128	1,222	1,351	1,486	1,552
	Max Inrush Current (8)(9)(11)	A	0						

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0; | (2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow; | (3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); | (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; | (5) Based on AHRI conditions; | (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; | (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C; | (8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values; | (9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans. Value intended as guideline. Refer to unit nameplate for specific value; | (10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water; | (11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%; | (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

Air cooled Inverter screw free cooling with GOLD efficiency. Standard sound.

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- Unique fully integrated active harmonic filtration solution
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

			EWFH TZ-D XS	220	230	275	300	350	400
Cooling Capacity (1)		kW		294.3	316.3	373.8	409.1	472.7	537.6
Power input (1)		kW		83	94.9	98.3	116.8	118.6	150.7
EER (1)				3.55	3.33	3.8	3.5	3.99	3.57
SEER (1)(2)				5.493	5.444	5.544	5.609	6.003	5.967
ηs,c (3)		%		217	215	219	221	237	23
SEPR (1)(2)				6.902	6.732	6.519	6.537	7.31	6.658
IPLV (5)				6.046	6.019	6.119	6.101	6.701	6.28
Full Free Cooling Temperature (12)		°C		6.66	5.66	8.78	7.69	9.4	7.84
Flow rate (1)		l/s		10.1	10.9	12.8	14	16.2	18.4
Evaporator Pressure Drop free cooling OFF (1)(6)		kPa		10.1	11.4	12.8	15	32.3	41
Unit pressure drop free cooling ON (12)(6)		kPa		67.4	75.2	56.3	65.4	72.8	90.5
Sound Power (1)(7)	Lw	dB(a)		97	97	100	101	97	100
	Lw with + OP76b	dB(a)		90	91	93		91	
Number of circuits / Compressors				1					
Water volume – open loop Free Cooling		Lt		40		48		42.7	
Minimum Water flow rate (10)		l/s		7.6		8.5		5.94	
Dimensions	Length	mm		2,560		3,640		4,720	
	Width	mm		2,238					
	Height	mm		2,553					
Weight (8)	Unit (8)	kg		2,797	2,797	3,337	3,337	4,146	4,146
	Operating weight (8)	kg		3,054	3,054	3,679	3,684	4,552.7	4,562.7
Water Connection Size		Ø mm		88.9				139.7	
Unit	Running Current (1)(8)(11)	A		135	153	161	188	197	245
	Max Running Current (7)(8)(11)	A		172	183	214	236	269	310
	Current for Wiring Sizing (8)(11)	A		190	201	235	259	296	340
	Max Inrush Current (8)(9)(11)	A		0					

			EWFH TZ-D XS	470	465	515	540	545	600
Cooling Capacity (1)		kW		627.1	639.3	680.6	712.1	745.7	817.3
Power input (1)		kW		172.2	157.4	195.9	182.4	183.2	220.5
EER (1)				3.64	4.06	3.47	3.9	4.07	3.71
SEER (1)(2)				6.11	5.8	5.704	5.444	5.912	5.831
ηs,c (3)		%		241	229	225	215	233	230
SEPR (1)(2)				6.762	6.624	6.428	7.322	5.413	6.739
IPLV (5)				6.571	6.277	6.45	6.125	6.389	6.3
Full Free Cooling Temperature (12)		°C		8.73	10.48	7.73	7.15	8.82	7.71
Flow rate (1)		l/s		21.5	21.9	23.3	24.4	25.6	28
Evaporator Pressure Drop free cooling OFF (1)(6)		kPa		30.5	38.4	35.8	23.4	35.3	31.1
Unit pressure drop free cooling ON (12)(6)		kPa		74.9	73.1	86	77.2	78.7	81.2
Sound Power (1)(7)	Lw	dB(a)		105	101	102	99	101	106
	Lw with + OP76b	dB(a)		92	95	93	92	95	96
Number of circuits / Compressors				1	2	1		2	
Water volume – open loop Free Cooling		Lt		58.1	152	58.1	76.3	232	289
Minimum Water flow rate (10)		l/s		10.2	8.7	10.2	13.4	10.7	13
Dimensions	Length	mm		5,800	6,880	5,800		6,880	
	Width	mm		2,238					
	Height	mm		2,553					
Weight (8)	Unit (8)	kg		4,720	5,065	4,720	5,474	5,284	5,336
	Operating weight (8)	kg		5,243.1	5,841	5,248.1	6,043.3	6,230	6,406
Water Connection Size		Ø mm		139.7				168.3	
Unit	Running Current (1)(8)(11)	A		277	257	312	296	295	357
	Max Running Current (7)(8)(11)	A		357	364	394	414	406	448
	Current for Wiring Sizing (8)(11)	A		393	401	434	456	442	492
	Max Inrush Current (8)(9)(11)	A		0					

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0; | (2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow; | (3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); | (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; | (5) Based on AHRI conditions; | (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; | (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C; | (8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values; | (9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans. Value intended as guideline. Refer to unit nameplate for specific value; | (10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water; | (11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%; | (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.



MicroTech 4



EWFH-TZXSD

EWFH TZ-D XS			620	645	700	750	790	840
Cooling Capacity (1)		kW	819.3	877	941.7	1,013.6	1,071.7	1,139.2
Power input (1)		kW	241.7	230.7	256.6	267.4	271.3	303.5
EER (1)			3.39	3.8	3.67	3.79	3.95	3.75
SEER (1)(2)			5.379	5.957	5.918	6.147	6.205	6.127
ηs,c (3)		%	212	235	234	243	245	242
SEPR (1)(2)			6.839	7.05	6.967	7.142	7.038	6.926
IPLV (5)			5.832	6.479	6.362	6.639	6.69	6.489
Full Free Cooling Temperature (12)		°C	5.15	6.79	5.79	6.91	7.89	7.12
Flow rate (1)		l/s	28.1	30.1	32.3	34.8	36.8	39.1
Evaporator Pressure Drop free cooling OFF (1)(6)		kPa	30.1	34.8	39.1	47	51.1	56.4
Unit pressure drop free cooling ON (12)(6)		kPa	96.8	90.8	102	103	101	111
Sound Power (1)(7)	Lw	dB(a)	101	98	100	101	102	103
	Lw with + OP76b	dB(a)	93				94	
Number of circuits / Compressors			1	2				
Water volume – open loop Free Cooling		Lt	76.3	289		492		
Minimum Water flow rate (10)		l/s	13.4	13		12.3		
Dimensions	Length	mm	5,800	6,880		7,960	9,040	
	Width	mm	2,238					
	Height	mm	2,553					
Weight (8)	Unit (8)	kg	5,474	5,593		6,358	6,868	
	Operating weight (8)	kg	6,053.3	6,668	6,673	7,920	8,500	8,505
Water Connection Size		Ø mm	139.7	168.3		219.1		
Unit	Running Current (1)(8)(11)	A	385	384	423	439	445	493
	Max Running Current (7)(8)(11)	A	491	472	517	527	579	618
	Current for Wiring Sizing (8)(11)	A	541	520	569	580	637	680
	Max Inrush Current (8)(9)(11)	A	0					

EWFH TZ-D XS			900	975	H10	H11	H12	H13
Cooling Capacity (1)		kW	1,210.2	1,312.2	1,468.8	1,564.7	1,682.3	1,812.0
Power input (1)		kW	342	375.8	416.1	422.1	463.2	521.6
EER (1)			3.54	3.49	3.530	3.710	3.630	3.470
SEER (1)(2)			6.008	6.025	5.997	5.645	5.693	5.758
ηs,c (3)		%	237	238	237	223	225	227
SEPR (1)(2)			6.695	6.108	6.202	7.177	6.961	6.864
IPLV (5)			6.472	6.443	6.436	6.376	6.481	6.426
Full Free Cooling Temperature (12)		°C	6.3	6.81	6.71	5.83	6.16	6.32
Flow rate (1)		l/s	41.5	45	50.4	53.7	57.7	62.1
Evaporator Pressure Drop free cooling OFF (1)(6)		kPa	51.3	58.4	30.4	48.9	54.2	41.5
Unit pressure drop free cooling ON (12)(6)		kPa	110	115	86.5	110	115	101
Sound Power (1)(7)	Lw	dB(a)	105	107	105	103	104	105
	Lw with + OP76b	dB(a)	94	95		96		97
Number of circuits / Compressors			2					
Water volume – open loop Free Cooling		Lt	583		1,011			
Minimum Water flow rate (10)		l/s	14.6		22.6			
Dimensions	Length	mm	9,040	10,120	11,200		12,280	13,360
	Width	mm	2,238					
	Height	mm	2,553					
Weight (8)	Unit (8)	kg	6,957	7,466	8,383	9,051	9,561	10,070
	Operating weight (8)	kg	8,785	9,370	11,223	11,906	12,491	13,081
Water Connection Size		Ø mm	219.1	219.1	273	273	273	273
Unit	Running Current (1)(8)(11)	A	550	601	661	678	739	826
	Max Running Current (7)(8)(11)	A	655	702	787	902	992	1,090
	Current for Wiring Sizing (8)(11)	A	721	772	866	992	1,091	1,198
	Max Inrush Current (8)(9)(11)	A	0					

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0; | (2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow; | (3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); | (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; | (5) Based on AHRI conditions; | (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; | (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C; | (8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values; | (9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans. Value intended as guideline. Refer to unit nameplate for specific value; | (10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water; | (11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%; | (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

Air cooled Inverter screw free cooling with PLATINUM efficiency. Standard sound.

- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,600 kW
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

EWFH TZ-D PS			225	265	295	340	395	420
Cooling Capacity (1)		kW	308.3	364.2	398.9	460.2	543.6	573.6
Power input (1)		kW	73.4	83.7	98.4	100.8	129.4	133
EER (1)			4.2	4.35	4.05	4.57	4.2	4.31
SEER (1)(2)			6.008	6.095	6.081	6.58	6.397	6.579
ηs,c (3)		%	237	241	240	260	253	260
SEPR (1)(2)			7.312	7.556	7.271	7.983	7.59	5.795
IPLV (5)			6.738	6.736	6.579	7.506	7.214	7.271
Full Free Cooling Temperature (12)		°C	10.78	11.86	11.12	11.82	11.4	12.09
Flow rate (1)		l/s	10.6	12.5	13.7	15.8	18.6	19.7
Evaporator Pressure Drop free cooling OFF (1)(6)		kPa	11.2	12.2	14.5	17.5	23.5	26
Unit pressure drop free cooling ON (12)(6)		kPa	42.8	38.3	44.9	44.2	58.7	77
Sound Power (1)(7)	Lw	dB(a)	97	98	103	96	99	100
	Lw with + OP76b	dB(a)	91	93	94	92		93
Number of circuits / Compressors			1					
Water volume – open loop Free Cooling		Lt	40	48		58.1		
Minimum Water flow rate (10)		l/s	7.6	8.5		10.2		
Dimensions	Length	mm	3,640	4,720		5,800		6,880
	Width	mm	2,238					
	Height	mm	2,553					
Weight (8)	Unit (8)	kg	3,307	3,846	3,846	4,720	4,720	5,229
	Operating weight (8)	kg	3,628	4,254	4,259	5,223.1	5,233.1	5,813.1
Water Connection Size		Ø mm	88.9			139.7		
Unit	Running Current (1)(8)(11)	A	121	136	161	170	213	219
	Max Running Current (7)(8)(11)	A	183	214	235	258	301	330
	Current for Wiring Sizing (8)(11)	A	201	235	258	283	331	363
	Max Inrush Current (8)(9)(11)	A	0					

EWFH TZ-D PS			490	500	540	545	615
Cooling Capacity (1)		kW	653	684.2	730.5	717.1	834.7
Power input (1)		kW	160.4	158.9	165	163.7	195.6
EER (1)			4.07	4.3	4.43	4.38	4.27
SEER (1)(2)			6.481	6.199	6.24	5.753	6.646
ηs,c (3)		%	256	245	247	227	263
SEPR (1)(2)			7.297	6.966	7.58	8.001	7.332
IPLV (5)			7.135	6.819	6.956	6.73	7.347
Full Free Cooling Temperature (12)		°C	10.27	9.81	10.71	9.3	9.31
Flow rate (1)		l/s	22.4	23.5	25.1	24.6	28.6
Evaporator Pressure Drop free cooling OFF (1)(6)		kPa	20.1	23.3	25.9	23.8	35
Unit pressure drop free cooling ON (12)(6)		kPa	55.1	61.1	59.1	64.6	76.2
Sound Power (1)(7)	Lw	dB(a)	105	101		99	97
	Lw with + OP76b	dB(a)	93	95	96	93	
Number of circuits / Compressors			1	2		1	2
Water volume – open loop Free Cooling		Lt	76.3	289	289	76.3	492
Minimum Water flow rate (10)		l/s	13.4	13	13	13.4	12.3
Dimensions	Length	mm	6,880		7,960	6,880	7,960
	Width	mm	2,238				
	Height	mm	2,553				
Weight (8)	Unit (8)	kg	5,315	5,336	5,846	5,984	6,358
	Operating weight (8)	kg	5,939.3	6,391	6,971	6,618.3	7,900
Water Connection Size		Ø mm	139.7	168.3		139.7	219.1
Unit	Running Current (1)(8)(11)	A	259	259	268	269	332
	Max Running Current (7)(8)(11)	A	367	375	406	425	432
	Current for Wiring Sizing (8)(11)	A	404	412	444	467	476
	Max Inrush Current (8)(9)(11)	A	0				

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0; | (2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow; | (3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); | (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; | (5) Based on AHRI conditions; | (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; | (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C; | (8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values; | (9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans. Value intended as guideline. Refer to unit nameplate for specific value; | (10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water; | (11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%; | (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.



MicroTech 4



EWFH-TZPSD

			EWFH TZ-D PS	645	700	770	845	900
Cooling Capacity (1)			kW	875.7	945.2	1,038	1,153.1	1,224.2
Power input (1)			kW	206.6	231.1	250.4	271.4	309.9
EER (1)				4.24	4.09	4.15	4.25	3.95
SEER (1)(2)				6.55	5.945	6.46	6.506	6.388
ηs,c (3)			%	259	235	255	257	253
SEPR (1)(2)				7.884	7.611	7.394	7.499	7.129
IPLV (5)				7.226	7.016	7.052	7.143	6.966
Full Free Cooling Temperature (12)			°C	8.76	7.82	8.3	8.47	7.72
Flow rate (1)			l/s	30	32.4	35.6	39.5	42
Evaporator Pressure Drop free cooling OFF (1)(6)			kPa	37.4	42.1	39.8	60.3	66.1
Unit pressure drop free cooling ON (12)(6)			kPa	82.1	92.3	86.8	170	117
Sound Power (1)(7)	Lw		dB(a)	98	99	101	102	104
	Lw with + OP76b		dB(a)	93		94	95	
Number of circuits / Compressors				2				
Water volume – open loop Free Cooling			Lt	492		583	546	
Minimum Water flow rate (10)			l/s	12.3		14.6	14.5	
Dimensions	Length		mm	7,960		9,040	10,120	
	Width		mm	2,238				
	Height		mm	2,553				
Weight (8)	Unit (8)		kg	6,358	6,358	6,957	7,519	
	Operating weight (8)		kg	7,905	7,910	8,765	9,329	9,339
Water Connection Size			Ø mm	219.1	219.1	219.1	219.1	219.1
Unit	Running Current (1)(8)(11)		A	348	385	414	445	503
	Max Running Current (7)(8)(11)		A	458	505	558	609	647
	Current for Wiring Sizing (8)(11)		A	503	556	614	670	712
	Max Inrush Current (8)(9)(11)		A	0				

			EWFH TZ-D PS	960	C10	H10	H11	C12
Cooling Capacity (1)			kW	1,446.8	1,352.1	1,439.3	1,532.9	1,610.7
Power input (1)			kW	394.2	352.3	378.7	367.3	385.1
EER (1)				3.67	3.840	3.800	4.170	4.180
SEER (1)(2)				5.929	6.3	5.568	6.031	6.095
ηs,c (3)			%	234	249	220	238	241
SEPR (1)(2)				6.569	6.93	6.912	7.423	7.821
IPLV (5)				6.615	6.787	6.825	6.965	7.041
Full Free Cooling Temperature (12)			°C	6.89	7.8	8.23	7.43	7.88
Flow rate (1)			l/s	49.6	46.4	49.4	52.6	55.2
Evaporator Pressure Drop free cooling OFF (1)(6)			kPa	43	38.9	29.5	32.4	35.0
Unit pressure drop free cooling ON (12)(6)			kPa	98.4	88.8	76.2	84.5	84.1
Sound Power (1)(7)	Lw		dB(a)	107	107	106	102	103
	Lw with + OP76b		dB(a)	95			96	
Number of circuits / Compressors				2				
Water volume – open loop Free Cooling			Lt	1,043			1,011	
Minimum Water flow rate (10)			l/s	18.1			22.6	
Dimensions	Length		mm	11,200		12,280		13,360
	Width		mm	2,238				
	Height		mm	2,553				
Weight (8)	Unit (8)		kg	8,341	8,341	8,892	9,561	10,070
	Operating weight (8)		kg	11,225	11,235	11,797	12,476	13,061
Water Connection Size			Ø mm	273				
Unit	Running Current (1)(8)(11)		A	696	639	605	596	623
	Max Running Current (7)(8)(11)		A	694	731	779	875	923
	Current for Wiring Sizing (8)(11)		A	764	804	857	962	1,015
	Max Inrush Current (8)(9)(11)		A	0				

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Air cooled Inverter screw free cooling with BLU efficiency. Standard sound.

- Refrigerant R-513A
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,850 kW
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

EWFS-TZBSD					10TZBSD2000	10TZBSD2000	11TZBSD2000	12TZBSD2000	13TZBSD2000	14TZBSD2000	15TZBSD2000	16TZBSD2000	17TZBSD2000	18TZBSD2000
SEER					4.917	5.034	5.163	4.951	5.254	5.165	5.168	5.095	5.177	5.178
Cooling capacity	Nom.			kW	1,244.3	1,343.45	1,446.68	1,570.26	1,721.26	1,797.14	1,969.93	2,035.59	2,107.09	2,314.18
Power input	Cooling	Nom.		kW	442.65	453.87	475.26	520.64	574.33	633.02	687.1	679.21	739.85	872.62
Capacity control	Method				Stepless									
	Minimum capacity			%	10.5	10						12.5	11.5	10.5
EER					2.81	2.96	3.04	3.02	3	2.84	2.87	3	2.85	2.65
IPLV					5.281	5.468	5.513	5.558	5.543	5.454	5.411	5.86	5.754	5.648
Dimensions	Unit	Height		mm	2,553									
		Width		mm	2,238									
		Depth		mm	6,880	7,960	9,040	10,120	11,200			12,280		13,360
Weight	Unit			kg	5,806	6,427	6,936	7,446	7,956	8,277	9,157	9,561		10,070
	Operation weight			kg	6,834	7,606	8,191	8,776	9,366	9,697	11,117	11,535	11,550	12,140
Air heat exchanger	Type				Microchannel									
Compressor	Type				Screw compressor									
	Quantity				2									
Fan	Type				Direct propeller									
	Quantity				12	14	16	18	20			22		24
	Air flow rate	Cooling	Nom.	l/s	67,530	78,785	90,040	101,295	112,550			123,805		135,060
Sound power level	Cooling	Nom.		dBA	100	100.7	101	101.8	103.8	104.8	106.2	104.1	104.9	105.8
Sound pressure level	Cooling	Nom.		dBA	78.9	79.1		79.6	81.2	82.3	83.4	81.2	82	82.7
Operation range	Air side	Cooling	Min.~Max.	°CDB	4 ~18									
Refrigerant	Type/GWP				R-513A/630									
	Charge			kg	140	150	160	170	185	195	215	230	245	260
	Circuits	Quantity			2									
Piping connections	Evaporator water inlet/outlet (OD)				219.1						273			
Unit	Starting current	A			0									
	Running current	Cooling	A		700	717	748	816	895	991	1,071	1,060	1,157	1,353
		A			751	817	884	930	948	1,120	1,200	1,227	1,340	1,475
Power supply	Phase/Hz/V				3/50/400									

EWFS					19TZBSD2000	275TZBSD1000	320TZBSD1000	345TZBSD1000	400TZBSD1000	470TZBSD1000	525TZBSD1000	580TZBSD1000	625TZBSD1000	755TZBSD2000
SEER					5.098	4.648	5.032	4.966	5.234	4.921	5.225	5.233	5.015	5.288
Cooling capacity	Nom.			kW	2,312.53	353.32	412.41	447.62	528.72	571.33	657.03	728.85	758.65	956.88
Power input	Cooling	Nom.		kW	887.73	116.76	124.07	144.81	172.62	194.86	206.35	250.21	274.48	275.44
Capacity control	Method				Stepless									
	Minimum capacity			%	10	21.5	19	16.5	21.5	23	21.5	19	16.5	12.5
EER					2.61	3.03	3.32	3.09	3.06	2.93	3.18	2.91	2.76	3.47
IPLV					5.583	5.084	5.463	5.375	5.565	5.295	5.599	5.564	5.377	5.66
Dimensions	Unit	Height		mm	2,553									
		Width		mm	2,238									
		Depth		mm	13,360	2,560	3,640				4,720			6,880
Weight	Unit			kg	10,070	2,626	3,136		3,581		4,154			5,549
	Operation weight			kg	12,150	2,847	3,432		3,907	3,917	4,581	4,591	4,596	6,341
Air heat exchanger	Type				Microchannel									
Compressor	Type				Screw compressor									
	Quantity				2	1								2
Fan	Type				Direct propeller									
	Quantity				24	4	6				8			12
	Air flow rate	Cooling	Nom.	l/s	135,060	22,510	33,765				45,020			67,530
Sound power level	Cooling	Nom.		dBA	106.6	97.4	97.9	100	97.3	96.7	97.7	98.1	100.6	99
Sound pressure level	Cooling	Nom.		dBA	83.5	78.3	78.2	80.3	77.6	77	77.4	77.8	80.3	77.8
Operation range	Air side	Cooling	Min.~Max.	°CDB	4 ~18									
Refrigerant	Type/GWP				R-513A/630									
	Charge			kg	270	35	45		55	65	70	80	85	105
	Circuits	Quantity			2	1								2
Piping connections	Evaporator water inlet/outlet (OD)				273	88.9				139.7				168.3
Unit	Starting current	A			0									
	Running current	Cooling	A		1,376	188	199	230	278	311	328	393	429	451
		A			1,608	220	262	284	346	362	400	457	464	600
Power supply	Phase/Hz/V				3/50/400									



MicroTech 4



EWFS-TZBSD

					EWFS	830TZBSD2000	915TZBSD2000
SEER						5.217	5.037
Cooling capacity	Nom.			kW		1,067	1,162.62
Power input	Cooling	Nom.		kW		347.3	386.64
Capacity control	Method					Stepless	
	Minimum capacity			%		10.5	12.5
EER						3.07	3.01
IPLV						5.55	5.409
Dimensions	Unit	Height		mm		2,553	
		Width		mm		2,238	
		Depth		mm		6,880	
Weight	Unit			kg		5,549	5,806
	Operation weight			kg		6,351	6,819
Air heat exchanger	Type					Microchannel	
Compressor	Type					Screw compressor	
	Quantity					2	
Fan	Type					Direct propeller	
	Quantity					12	
	Air flow rate	Cooling	Nom.	l/s		67,530	
Sound power level	Cooling	Nom.		dBA		100	99
Sound pressure level	Cooling	Nom.		dBA		78.9	77.8
Operation range	Air side	Cooling	Min.~Max.	°CDB		4 ~18	
Refrigerant	Type/GWP					R-513A/630	
	Charge			kg		115	125
	Circuits	Quantity				2	
Piping connections	Evaporator water inlet/outlet (OD)					168.3	219.1
Unit	Starting current	A				0	
	Running current	Cooling	A			558	617
		A				668	
Power supply	Phase/Hz/V					3/50/400	

Air cooled Inverter screw free cooling with SILVER efficiency. Standard sound.

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- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,850 kW
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

EWFS-TZSSD					10TZSSD2000	10TZSSD2000	11TZSSD2000	12TZSSD2000	13TZSSD2000	14TZSSD2000	15TZSSD2000	16TZSSD2000	17TZSSD2000	18TZSSD2000
SEER					5.102	5.043	5.122	5.274	4.372	4.156	5.294	5.056	5.217	4.602
Cooling capacity	Nom.			kW	1,300.84	1,315.3	1,474.29	1,645.12	1,766.39	1,894.74	1,965.41	2,043.33	2,235.02	2,280.9
Power input	Cooling			kW	417.07	420.49	475.58	515.07	562.9	618.59	608.3	641.75	745.75	800.88
Capacity control	Method				Stepless									
	Minimum capacity			%	10.5		10				13.5	12.5	11.5	10.5
EER					3.12	3.13	3.1	3.19	3.14	3.06	3.23	3.18	3	2.85
IPLV					6.507	6.418	6.452	6.402	6.469	6.286	5.536	5.698	5.723	5.836
Dimensions	Unit	Height		mm	2,553									
		Width		mm	2,238									
		Depth		mm	7,960		9,040	11,200	12,280				13,360	
Weight	Unit			kg	6,316	6,427	6,936	7,956	8,465	9,157	9,561		10,070	
	Operation weight			kg	7,409	7,601	8,191	9,356	9,945	11,107	11,520	11,535	12,130	12,140
Air heat exchanger	Type				Microchannel									
Compressor	Type				Screw compressor									
	Quantity				2									
Fan	Type				Direct propeller									
	Quantity				14		16	20	22				24	
	Air flow rate	Cooling	Nom.	l/s	78,785		90,040	112,550	123,805				135,060	
Sound power level	Cooling	Nom.		dBA	100.2	100.5	101	102.5	104.2	105.3	103.3	104.1	104.9	105.8
Sound pressure level	Cooling	Nom.		dBA	78.7	79	79.1	79.9	81.3	82.5	80.5	81.2	81.8	82.7
Operation range	Air side	Cooling	Min.~Max.	°CDB	4 ~18									
Refrigerant	Type/GWP				R-513A/630									
	Charge			kg	140	145	160	175	190	205	215	230	250	260
	Circuits	Quantity			2									
Piping connections	Evaporator water inlet/outlet (OD)				219.1						273			
Unit	Starting current	Max			0									
	Running current	Cooling	Nom.		662	667	749	807	878	970	954	1,004	1,166	1,247
		Max			761	789	884	948	1,187	1,156	1,124	1,227	1,351	1,475
Power supply	Phase/Frequency/Voltage				3/50/400									

EWFS					19TZSSD2000	28STZSSD1000	32STZSSD1000	38OTZSSD1000	43OTZSSD1000	49STZSSD1000	52OTZSSD2000	53STZSSD1000	55STZSSD2000	58STZSSD2000
SEER					5.064	5.07	5.307	5.507	5.46	5.167	4.767	5.335	4.838	4.774
Cooling capacity	Nom.			kW	2,357.64	379.56	427.04	497.67	565.51	644.86	672.4	699.08	718.05	763.44
Power input	Cooling			kW	882.68	104.5	114.89	142.11	166.38	190.79	190.48	200.71	206.69	233.61
Capacity control	Method				Stepless									
	Minimum capacity			%	10	21.5	19	16.5	21.5	23	10.5	21.5	10	
EER					2.67	3.63	3.72	3.5	3.4	3.38	3.53	3.48	3.47	3.27
IPLV					5.606	6.487	6.589	6.445	7.06	7.327	6.306	6.935	6.178	6.272
Dimensions	Unit	Height		mm	2,553									
		Width		mm	2,238									
		Depth		mm	13,360	3,640	4,720				5,800			
Weight	Unit			kg	10,070	3,136	3,675		4,090	4,154	4,555	4,664	4,555	
	Operation weight			kg	12,150	3,427	4,045	4,050	4,487	4,576	5,237	5,161	5,242	5,247
Air heat exchanger	Type				Microchannel									
Compressor	Type				Screw compressor									
	Quantity				2	1					2	1	2	
Fan	Type				Direct propeller									
	Quantity				24	6	8				10			
	Air flow rate	Cooling	Nom.	l/s	135,060	33,765	45,020				56,275			
Sound power level	Cooling	Nom.		dBA	106.6	97.8	98.3	100.2	97.7	97.1	99.3	98	99.5	100.7
Sound pressure level	Cooling	Nom.		dBA	83.5	78		80	77.4	76.9	78.6	77.3	78.7	79.9
Operation range	Air side	Cooling	Min.~Max.	°CDB	4 ~18									
Refrigerant	Type/GWP				R-513A/630									
	Charge			kg	270	40	45	50	60	65	70	75		80
	Circuits	Quantity			2	1					2	1	2	
Piping connections	Evaporator water inlet/outlet (OD)				273	88.9			139.7		168.3	139.7	168.3	
Unit	Starting current	Max			0									
	Running current	Cooling	Nom.		1,368	170	185	226	268	305	312	319	336	377
		Max			1,608	231	272	294	357	372	421	411	450	481
Power supply	Phase/Frequency/Voltage				3/50/400									



MicroTech 4



EWFS-TZSSD

					EWFS	595TZSSD1000	645TZSSD2000	650TZSSD1000	705TZSSD2000	760TZSSD2000	835TZSSD2000	960TZSSD2000
SEER						5.22	4.926	5.093	4.82	5.427	5.3	5.171
Cooling capacity	Nom.			kW		768.14	839.18	849.01	927.67	984.93	1,076.32	1,237
Power input	Cooling			kW		235.05	237.73	281.5	286.32	271.86	318.44	377.36
Capacity control	Method					Stepless						
	Minimum capacity			%		19	10	16.5	10	12.5	10.5	11.5
EER						3.27	3.53	3.02	3.24	3.62	3.38	3.28
IPLV						6.45	6.55	6.337	6.785	6.548	6.624	6.415
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		5,800	6,880	5,800	6,880	7,960		
Weight	Unit			kg		4,664	5,083	4,664	5,083	6,059		6,316
	Operation weight			kg		5,166	5,835	5,176	5,840	6,916	6,926	7,404
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					1	2	1	2			
Fan	Type					Direct propeller						
	Quantity					10	12	10	12	14		
	Air flow rate	Cooling	Nom.	l/s		56,275	67,530	56,275	67,530	78,785		
Sound power level	Cooling	Nom.		dBA		98.4	100.9	100.7	103	99.2	100.2	99.6
Sound pressure level	Cooling	Nom.		dBA		77.7	79.8	80	81.9	77.7	78.7	78
Operation range	Air side	Cooling	Min.~Max.	°CDB		4 ~18						
Refrigerant	Type/GWP					R-513A/630						
	Charge			kg		80	90		95	105	115	135
	Circuits	Quantity				1	2	1	2			
Piping connections	Evaporator water inlet/outlet (OD)					139.7	168.3	139.7	168.3			219.1
Unit	Starting current	Max				0						
	Running current	Cooling	Nom.			370	383	439	455	446	515	603
		Max				467	523	474	566	610	679	706
Power supply	Phase/Frequency/Voltage					3/50/400						

Air cooled Inverter screw free cooling with GOLD efficiency. Standard sound.

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EWFS-TZXSD					10TZXSD2000	10TZXSD2000	11TZXSD2000	12TZXSD2000	12TZXSD2000	13TZXSD2000	14TZXSD2000	15TZXSD2000	16TZXSD2000	17TZXSD2000
SEER					4.899	5.183	5.793	5.68	5.627	5.687	5.603	5.478	5.355	5.225
Cooling capacity	Nom.			kW	1,370.23	1,274.13	1,436.39	1,536.75	1,603.58	1,720.07	1,866.66	1,957.89	2,092.93	2,138.76
Power input	Cooling			kW	407.56	356.3	405.88	463.58	489.2	532.36	523.31	577.55	655.27	711.26
Capacity control	Method				Stepless									
	Minimum capacity			%	10.5	11.5	10.5	10			15	13.5	12.5	11.5
EER					3.36	3.58	3.54	3.32	3.28	3.23	3.57	3.39	3.19	3.01
IPLV					5.84	5.977	5.764	5.622	5.541	5.84	6.097	5.958	6.475	6.196
Dimensions	Unit	Height		mm	2,553									
		Width		mm	2,238									
		Depth		mm	10,120		11,200			12,280	13,360			
Weight	Unit			kg	7,390		8,011			8,892	10,070			
	Operation weight			kg	8,619	8,609	9,391	9,401	9,416	10,826	12,080	12,095	12,110	12,125
Air heat exchanger	Type				Microchannel									
Compressor	Type				Screw compressor									
	Quantity				2									
Fan	Type				Direct propeller									
	Quantity				18		20			22	24			
	Air flow rate	Cooling	Nom.	l/s	101,295		112,550			123,805	135,060			
Sound power level	Cooling	Nom.		dBA	102.3	101	103	105.2	107.5	106.1	102	102.8	103.7	104.5
Sound pressure level	Cooling	Nom.		dBA	77.5	76.8	77.6	77.9	78	79.1	78.9	79.7	80.5	81.4
Operation range	Air side	Cooling	Min.~Max.	°CDB	4 ~18									
Refrigerant	Type/GWP				R-513A/630									
	Charge			kg	145	135	155	165	180	190	200	215	230	245
	Circuits	Quantity			2									
Piping connections	Evaporator water inlet/outlet (OD)				219.1						273			
Unit	Starting current	Max			0									
	Running current	Cooling	Nom.		648	572	645	731	769	833	828	909	1,024	1,115
		Max			782	720	744	803	851	899	997	1,103	1,217	1,330
Power supply	Phase/Frequency/Voltage				3/50/400									

EWFS					295TZXSD1000	345TZXSD1000	380TZXSD1000	440TZXSD1000	515TZXSD1000	525TZXSD2000	565TZXSD2000	565TZXSD1000	610TZXSD2000	635TZXSD1000
SEER					5.287	5.458	5.423	5.849	5.656	5.598	5.491	5.799	5.57	5.696
Cooling capacity	Nom.			kW	393.3	464.21	504.51	576.36	684.71	701.26	756.22	755.03	806.68	832.82
Power input	Cooling			kW	111.73	127.15	147.6	146.25	193.48	176.68	202.96	206.8	210.68	245.02
Capacity control	Method				Stepless									
	Minimum capacity			%	21.5	19	16.5	27.5	23	12.5	11.5	21.5	10.5	19
EER					3.52	3.65	3.42	3.94	3.54	3.97	3.73	3.65	3.83	3.4
IPLV					5.759	5.595	5.394	5.248	5.188	5.66	5.565	5.131	5.488	5.296
Dimensions	Unit	Height		mm	2,553									
		Width		mm	2,238									
		Depth		mm	3,640	4,720		5,800		6,880			7,960	6,880
Weight	Unit			kg	3,307	3,846		4,720		5,254		5,315	5,763	5,315
	Operation weight			kg	3,598	4,216	4,221	5,202	5,212	5,986	5,996	5,897	6,576	5,907
Air heat exchanger	Type				Microchannel									
Compressor	Type				Screw compressor									
	Quantity				1					2		1	2	1
Fan	Type				Direct propeller									
	Quantity				6	8		10		12			14	12
	Air flow rate	Cooling	Nom.	l/s	33,765	45,020		56,275		67,530			78,785	67,530
Sound power level	Cooling	Nom.		dBA	97.5	98.1	102.6	95.7	97.5	100.1	100.3	100.1	100.6	104.6
Sound pressure level	Cooling	Nom.		dBA	79.9	81.8	82.8	74.6	75.8	78.9	80.2	76.2	81.2	76.6
Operation range	Air side	Cooling	Min.~Max.	°CDB	4 ~18									
Refrigerant	Type/GWP				R-513A/630									
	Charge			kg	40	45	50	60	70		80	75	85	
	Circuits	Quantity			1					2		1	2	1
Piping connections	Evaporator water inlet/outlet (OD)				88.9			139.7		168.3		139.7	168.3	139.7
Unit	Starting current	Max			0									
	Running current	Cooling	Nom.		181	204	234	238	309	292	331	328	342	385
		Max			224	261	289	314	342	389	429	404	457	452
Power supply	Phase/Frequency/Voltage				3/50/400									



MicroTech 4



EWFS-TZXSD

					EWFS	670TZXSD2000	705TZXSD1000	725TZXSD2000	760TZXSD1000	805TZXSD2000	880TZXSD2000	950TZXSD2000
SEER						5.47	5.285	5.52	5.158	5.693	5.53	5.674
Cooling capacity	Nom.			kW		870.58	912.51	937.25	967.69	1,038.12	1,125.04	1,220.64
Power input	Cooling			kW		242.16	261.99	266.26	298.67	280.04	301.94	354.22
Capacity control	Method					Stepless						
	Minimum capacity			%		10	30	10	27.5	10	13.5	12.5
EER						3.6	3.48	3.52	3.24	3.71	3.73	3.45
IPLV						5.498	5.22	5.5	5.811	5.594	5.57	5.485
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		7,960	6,880	7,960	6,880	9,040		
Weight	Unit			kg		5,763	5,984	5,834	5,984	6,624	6,881	
	Operation weight			kg		6,581	6,586	6,704	6,596	7,753	8,019	8,029
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2	1	2	1	2		
Fan	Type					Direct propeller						
	Quantity					14	12	14	12	16		
	Air flow rate	Cooling	Nom.	l/s		78,785	67,530	78,785	67,530	90,040		
Sound power level	Cooling	Nom.		dBA		100.9	99	102.3	99.8	104.6	98.4	100.3
Sound pressure level	Cooling	Nom.		dBA		83.3	77.8	83.8	78.6	83.9	76.1	76.5
Operation range	Air side	Cooling	Min.~Max.	°CDB		4 ~18						
Refrigerant	Type/GWP					R-513A/630						
	Charge			kg		90	95	100	105	110	120	130
	Circuits	Quantity				2	1	2	1	2		
Piping connections	Evaporator water inlet/outlet (OD)					168.3	139.7	168.3	139.7	219.1		
Unit	Starting current	Max				0						
	Running current	Cooling	Nom.			389	415	425	469	446	491	569
		Max				498	520	535	568	573	626	683
Power supply	Phase/Frequency/Voltage					3/50/400						

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					EWFS	10TZPSD2000	10TZPSD2000	11TZPSD2000	12TZPSD2000	12TZPSD2000	13TZPSD2000	14TZPSD2000	15TZPSD2000	285TZPSD1000	330TZPSD1000
SEER						5.687	6.078	6.041	6.011	5.921	5.886	5.12	5.622	5.743	5.964
Cooling capacity	Nom.			kW		1,381.36	1,302.53	1,446.85	1,537.35	1,651.82	1,785.62	1,875.03	1,970.53	379.75	447.65
Power input	Cooling	Nom.		kW		382.23	343.58	398.36	435.51	480.74	519.68	514.84	571.83	90.57	109.69
Capacity control	Method					Stepless									
	Minimum capacity			%		10.5	11.5	10.5	10			15	13.5	23	20
EER						3.61	3.79	3.63	3.53	3.44		3.64	3.45	4.19	4.08
IPLV						6.156	6.287	6.119	6.152	6.299	6.124	5.955	5.832	6.447	6.205
Dimensions	Unit	Height		mm		2,553									
		Width		mm		2,238									
		Depth		mm		11,200		12,280			13,360			4,720	5,800
Weight	Unit			kg		7,900		8,521		8,892	9,402	10,070		3,846	4,356
	Operation weight			kg		9,199	9,189	9,971	9,976	10,816	11,401	12,085	12,100	4,211	4,791
Air heat exchanger	Type					Microchannel									
Compressor	Type					Screw compressor									
	Quantity					2								1	
Fan	Type					Direct propeller									
	Quantity					20		22			24			8	10
	Air flow rate	Cooling	Nom.	l/s		112,550		123,805			135,060			45,020	56,275
Sound power level	Cooling	Nom.		dBA		102.4	101.1	103	105.2	107.5	106.2	102	102.8	97.5	98.1
Sound pressure level	Cooling	Nom.		dBA		77.3	76.6	77.4	77.7	77.9	78.9		79.7	78.2	81
Operation range	Air side	Cooling	Min.~Max.	°CDB		4 ~18									
Refrigerant	Type/GWP					R-513A/630									
	Charge			kg		150	140	160	165	180	190	205	220	40	45
	Circuits	Quantity				2								1	
Piping connections	Evaporator water inlet/outlet (OD)					219.1				273				88.9	
Unit	Starting current	A				0									
	Running current	Cooling	A			610	553	634	689	757	814	816	900	149	178
		A				761	709	796	845	893	951	1,039	1,135	220	258
Power supply	Phase/Hz/V					3/50/400									

					EWFS	370TZPSD1000	405TZPSD1000	450TZPSD1000	490TZPSD1000	530TZPSD2000	575TZPSD2000	615TZPSD2000	675TZPSD2000	735TZPSD2000	810TZPSD2000
SEER						5.882	6.268	6.216	6.048	5.945	5.862	5.852	5.73	5.785	6.009
Cooling capacity	Nom.			kW		484.81	550.07	613.91	660.58	709.07	778.68	838.36	887.49	962.15	1,068.99
Power input	Cooling	Nom.		kW		125.7	126.13	145.13	161.16	170.65	194.82	212.73	231.24	257.6	273.19
Capacity control	Method					Stepless									
	Minimum capacity			%		17.5	30	27.5	25	12.5	11.5	10.5		10	
EER						3.86	4.36	4.23	4.1	4.16	4	3.94	3.84	3.73	3.91
IPLV						5.786	5.655	6.054	5.949	6.001	5.87	5.962	6.219	6.346	6.142
Dimensions	Unit	Height		mm		2,553									
		Width		mm		2,238									
		Depth		mm		5,800		6,880		7,960			9,040		10,120
Weight	Unit			kg		4,356	5,229	5,315		5,763		6,273		6,344	7,134
	Operation weight			kg		4,796	5,771	5,882	5,887	6,566	6,571	7,151	7,161	7,279	8,327
Air heat exchanger	Type					Microchannel									
Compressor	Type					Screw compressor									
	Quantity					1				2					
Fan	Type					Direct propeller									
	Quantity					10		12		14		16			18
	Air flow rate	Cooling	Nom.	l/s		56,275		67,530		78,785		90,040			101,295
Sound power level	Cooling	Nom.		dBA		100.4	94.7	96	97.7	100.2	100.4	100.7	101	102.3	104.6
Sound pressure level	Cooling	Nom.		dBA		81.9	74.2	74.5	74.9	78.6	79.9	80.9	83	83.4	83.6
Operation range	Air side	Cooling	Min.~Max.	°CDB		4 ~18									
Refrigerant	Type/GWP					R-513A/630									
	Charge			kg		50	55	60	65	75	80	85	95	100	110
	Circuits	Quantity				1				2					
Piping connections	Evaporator water inlet/outlet (OD)					88.9		139.7				168.3			219.1
Unit	Starting current	A				0									
	Running current	Cooling	A			202	208	237	261	283	319	345	373	412	435
		A				285	293	352	404	399	429	468	508	535	573



MicroTech 4



EWFS-TZPSD

					EWFS	890TZPSD2000	960TZPSD2000
SEER						6.196	5.371
Cooling capacity	Nom.			kW		1,159.77	1,236.49
Power input	Cooling	Nom.		kW		296.39	332.66
Capacity control	Method					Stepless	
	Minimum capacity			%		13.5	12.5
EER						3.91	3.72
IPLV						6.314	6.136
Dimensions	Unit	Height		mm		2,553	
		Width		mm		2,238	
		Depth		mm		10,120	
Weight	Unit			kg		7,390	
	Operation weight			kg		8,594	8,604
Air heat exchanger	Type					Microchannel	
Compressor	Type					Screw compressor	
	Quantity					2	
Fan	Type					Direct propeller	
	Quantity					18	
	Air flow rate	Cooling	Nom.	l/s		101,295	
Sound power level	Cooling	Nom.		dBA		98.6	100.4
Sound pressure level	Cooling	Nom.		dBA		75.9	76.3
Operation range	Air side	Cooling	Min.~Max.	°CDB		4 ~18	
Refrigerant	Type/GWP					R-513A/630	
	Charge			kg		120	130
	Circuits	Quantity				2	
Piping connections	Evaporator water inlet/outlet (OD)					219.1	
Unit	Starting current	A				0	
	Running current	Cooling	A			483	537
		A				616	672
Power supply	Phase/Hz/V					3/50/400	

Air cooled mini inverter heat pump

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- Separate MMI-2 controller for indoor installation



Inverter technology

Swing compressor

EW(A-Y)A004-008DV3P_R

EWYA-DV3P

Heating & Cooling				EWYA-D	004DV3P	006DV3P	008DV3P
Space cooling	A Condition 35°C Pdc			kW		-	
	ηs,c			%		-	
SEER						-	
Space heating	Average climate water outlet 35°C	General	SCOP		4.54	4.52	4.61
			Seasonal space heating eff. class			A+++	
Cooling capacity	Nom.			kW	4.86(1)/4.52(2)	5.83(1)/5.09(2)	6.18(1)/5.44(2)
Heating capacity	Nom.			kW	4.30(1)/4.60(2)	6.00(1)/5.90(2)	7.50(1)/7.80(2)
Power input	Cooling	Nom.		kW	0.820(1)/1.36(2)	1.08(1)/1.55(2)	1.19(1)/1.73(2)
	Heating	Nom.		kW	0.840(1)/1.26(2)	1.24(1)/1.69(2)	1.63(1)/2.23(2)
Capacity control	Method					Variable (inverter)	
EER					5.91(1)/3.32(2)	5.40(1)/3.28(2)	5.19(1)/3.14(2)
COP					5.10(1)/3.65(2)	4.85(1)/3.50(2)	4.60(1)/3.50(2)
Dimensions	Unit	Height		mm		770	
		Width		mm		1,250	
		Depth		mm		362	
Weight	Unit			kg		88.0	
Water heat exchanger	Type					Plate heat exchanger	
	Water volume			l		1	
Air heat exchanger	Type					-	
Compressor	Type					Hermetically sealed swing compressor	
	Quantity					1	
Fan	Type					Propeller fan	
	Quantity					1	
	Air flow rate	Cooling	Nom.	m^3/min		-	
		Heating	Nom.	m^3/min		-	
Sound power level	Cooling	Nom.		dBA	61.0(1)	62.0(1)	
	Heating	Nom.		dBA	58.0(1)	60.0(1)	62.0(1)
Sound pressure level	Cooling	Nom.		dBA	48.0(1)	49.0(1)	50.0(1)
	Heating	Nom.		dBA	44.0(1)	47.0(1)	49.0(1)
Operation range	Air side	Cooling	Min.~Max.	°CDB		10(3)~43	
		Heating	Min.~Max.	°CDB		-25~25	
Refrigerant	Type/GWP					R-32/675.0	
	Charge			kg		1.35	
	Control					-	
	Circuits	Quantity				-	
Refrigerant charge	Per circuit			kg		-	
Unit	Running current	Max		A		-	
Power supply	Phase/Frequency/Voltage			Hz/V		1~/50/230 +/-10%	

(1)Condition 1: cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | (2)Condition 2: cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) | (3)For more details, see operation range drawing | (4)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (5)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | (6)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | (7)Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) | (8)According to EN14825 | Depends on operation mode, refer to installation manual.

INVERTER BLUEVOLUTION

Air cooled mini inverter heat pump

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Inverter technology

Swing compressor

EWAA-EWYA-D_R

EWYA-DV3P

Heating & Cooling				EWYA-D	009DV3P	011DV3P	014DV3P	016DV3P
Space cooling	A Condition 35°C	Pdc		kW	9.35	11.6	12.8	14.0
	ηs,c			%	222	229	226	221
SEER					5.62(8)	5.79(8)	5.71(8)	5.59(8)
Space heating	Average climate water outlet 35°C	General	SCOP		4.82	4.73	4.70	4.69
			Seasonal space heating eff. class		A+++			
Cooling capacity	Nom.			kW	9.35(4)/9.10(5)	11.6(4)/11.5(5)	12.8(4)/12.7(5)	14.0(4)/15.3(5)
Heating capacity	Nom.			kW	9.37(6)/9.00(7)	10.6(6)/9.82(7)	12.0(6)/12.5(7)	16.0(6)/16.0(7)
Power input	Cooling	Nom.		kW	2.79(4)/1.71(5)	3.56(4)/2.17(5)	4.06(4)/2.51(5)	4.58(4)/3.24(5)
	Heating	Nom.		kW	1.91(6)/2.43(7)	2.18(6)/2.68(7)	2.46(6)/3.42(7)	3.53(6)/4.56(7)
Capacity control	Method				Variable (inverter)			
EER					3.35(4)/5.34(5)	3.26(4)/5.31(5)	3.16(4)/5.04(5)	3.06(4)/4.74(5)
COP					4.91(6)/3.71(7)	4.83(6)/3.66(7)	4.87(6)/3.64(7)	4.53(6)/3.51(7)
Dimensions	Unit	Height		mm	870			
		Width		mm	1,380			
		Depth		mm	460			
Weight	Unit			kg	147			
Water heat exchanger	Type				Plate heat exchanger			
	Water volume			l	2			
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler			
Compressor	Type				Hermetically sealed swing inverter compressor			
	Quantity				1			
Fan	Type				Propeller fan			
	Quantity				1			
	Air flow rate	Cooling	Nom.	m^3/min	63	70	85	
		Heating	Nom.	m^3/min	48.0	55.8	70.4	85.0
Sound power level	Cooling	Nom.		dBA	65.5	67.0	69.0	
	Heating	Nom.		dBA	-			
Sound pressure level	Cooling	Nom.		dBA	44.0	47.7	50.8	51.0
	Heating	Nom.		dBA	-			
Operation range	Air side	Cooling	Min.~Max.	°CDB	10~43			
		Heating	Min.~Max.	°CDB	-25~25			
Refrigerant	Type/GWP				R-32/675.0			
	Charge			kg	-			
	Control				Electronic expansion valve			
	Circuits	Quantity			1			
Refrigerant charge	Per circuit			kg	3.80			
Unit	Running current	Max		A	30.8			
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/230			

(1)Condition 1: cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | (2)Condition 2: cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) | (3)For more details, see operation range drawing | (4)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (5)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | (6)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | (7)Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) | (8)According to EN14825 | Depends on operation mode, refer to installation manual.

Air cooled mini inverter heat pump

- Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
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Inverter technology

Swing compressor

EWAA-EWYA-D_R

EWYA-DW1P

Heating & Cooling				EWYA-D	009DW1P	011DW1P	014DW1P	016DW1P
Space cooling	A Condition 35°C Pdc			kW	9.35	11.6	12.8	14.0
	ηs,c			%	222	229	226	221
SEER					5.62(5)	5.79(5)	5.71(5)	5.59(5)
Space heating	Average climate water outlet 35°C	General	SCOP		4.82	4.73	4.70	4.69
			Seasonal space heating eff. class		A+++			
Cooling capacity	Nom.			kW	9.35(1)/9.10(2)	11.6(1)/11.5(2)	12.8(1)/12.7(2)	14.0(1)/15.3(2)
Heating capacity	Nom.			kW	9.37(3)/9.00(4)	10.6(3)/9.82(4)	12.0(3)/12.5(4)	16.0(3)/16.0(4)
Power input	Cooling	Nom.		kW	2.79(1)/1.71(2)	3.56(1)/2.17(2)	4.06(1)/2.51(2)	4.58(1)/3.24(2)
	Heating	Nom.		kW	1.91(3)/2.43(4)	2.18(3)/2.68(4)	2.46(3)/3.42(4)	3.53(3)/4.56(4)
Capacity control	Method				Variable (inverter)			
EER					3.35(1)/5.34(2)	3.26(1)/5.31(2)	3.16(1)/5.04(2)	3.06(1)/4.74(2)
COP					4.91(3)/3.71(4)	4.83(3)/3.66(4)	4.87(3)/3.64(4)	4.53(3)/3.51(4)
Dimensions	Unit	Height		mm	870			
		Width		mm	1,380			
		Depth		mm	460			
Weight	Unit			kg	147			
Water heat exchanger	Type				Plate heat exchanger			
	Water volume			l	2			
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler			
Compressor	Type				Hermetically sealed swing inverter compressor			
	Quantity				1			
Fan	Type				Propeller fan			
	Quantity				1			
	Air flow rate	Cooling	Nom.	m^3/min	63	70	85	
		Heating	Nom.	m^3/min	48.0	55.8	70.4	85.0
Sound power level	Cooling	Nom.		dBA	65.5	67.0	69.0	
Sound pressure level	Cooling	Nom.		dBA	44.0	47.7	50.8	51.0
Operation range	Air side	Cooling	Min.~Max.	°CDB	10 ~43			
		Heating	Min.~Max.	°CDB	-25 ~25			
	Water side	Cooling	Min.~Max.	°CDB	5 ~22			
		Heating	Min.~Max.	°CDB	9 (6)~60 (6)			
Refrigerant	Type/GWP				R-32/675.0			
	Control				Electronic expansion valve			
	Circuits	Quantity			1			
Refrigerant charge	Per circuit			kg	3.80			
				TCO2Eq	2.6			
Unit	Running current	Max		A	14.0			
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400			

(1)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (2)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | (3)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | (4)Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) | (5)According to EN14825 | (6)For more details, see operation range drawing | Depends on operation mode, refer to installation manual.

INVERTER BLUEVOLUTION

Air cooled mini inverter heat pump

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EWAA-EWYA-D_R

EWYA-DW1P-H-

Heating & Cooling				EWYA-D	009DW1P-H-	011DW1P-H-	014DW1P-H-	016DW1P-H-
Space cooling	A Condition 35°C Pdc			kW	9.35	11.6	12.8	14.0
	ηs,c			%	222	229	226	221
SEER					5.62(5)	5.79(5)	5.71(5)	5.59(5)
Space heating	Average climate water outlet 35°C	General	SCOP		4.82	4.73	4.70	4.69
			Seasonal space heating eff. class		A+++			
Cooling capacity	Nom.			kW	9.35(1)/9.10(2)	11.6(1)/11.5(2)	12.8(1)/12.7(2)	14.0(1)/15.3(2)
Heating capacity	Nom.			kW	9.37(3)/9.00(4)	10.6(3)/9.82(4)	12.0(3)/12.5(4)	16.0(3)/16.0(4)
Power input	Cooling	Nom.		kW	2.79(1)/1.71(2)	3.56(1)/2.17(2)	4.06(1)/2.51(2)	4.58(1)/3.24(2)
	Heating	Nom.		kW	1.91(3)/2.43(4)	2.18(3)/2.68(4)	2.46(3)/3.42(4)	3.53(3)/4.56(4)
Capacity control	Method				Variable (inverter)			
EER					3.35(1)/5.34(2)	3.26(1)/5.31(2)	3.16(1)/5.04(2)	3.06(1)/4.74(2)
COP					4.91(3)/3.71(4)	4.83(3)/3.66(4)	4.87(3)/3.64(4)	4.53(3)/3.51(4)
Dimensions	Unit	Height		mm	870			
		Width		mm	1,380			
		Depth		mm	460			
Weight	Unit			kg	147			
Water heat exchanger	Type				Plate heat exchanger			
	Water volume			l	2			
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler			
Compressor	Type				Hermetically sealed swing inverter compressor			
	Quantity				1			
Fan	Type				Propeller fan			
	Quantity				1			
	Air flow rate	Cooling	Nom.	m^3/min	63	70	85	
		Heating	Nom.	m^3/min	48.0	55.8	70.4	85.0
Sound power level	Cooling	Nom.		dBA	65.5	67.0	69.0	
Sound pressure level	Cooling	Nom.		dBA	44.0	47.7	50.8	51.0
Operation range	Air side	Cooling	Min.~Max.	°CDB	10 ~43			
		Heating	Min.~Max.	°CDB	-25 ~25			
	Water side	Cooling	Min.~Max.	°CDB	5 ~22			
		Heating	Min.~Max.	°CDB	9 (6)~60 (6)			
Refrigerant	Type/GWP				R-32/675.0			
	Control				Electronic expansion valve			
	Circuits	Quantity			1			
Refrigerant charge	Per circuit			kg	3.80			
				TCO2Eq	2.6			
Unit	Running current	Max		A	14.0			
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400			

(1)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (2)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | (3)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | (4)Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) | (5)According to EN14825 | (6)For more details, see operation range drawing | Depends on operation mode, refer to installation manual.

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Inverter technology

Swing compressor

EW(A-Y)A004-008DV3P-H_R

EWYA-DV3P-H-

Heating & Cooling				EWYA-D	004DV3P-H	006DV3P-H	008DV3P-H	009DV3P-H-	011DV3P-H-	014DV3P-H-	016DV3P-H-
Space cooling	A Condition 35°C Pdc			kW		-		9.35	11.6	12.8	14.0
	ηs,c			%		-		222	229	226	221
SEER						-		5.62(8)	5.79(8)	5.71(8)	5.59(8)
Space heating	Average climate water outlet 35°C	General	SCOP		4.54	4.52	4.61	4.82	4.73	4.70	4.69
			Seasonal space heating eff. class					A+++			
Cooling capacity	Nom.			kW	4.86(1)/4.52(2)	5.83(1)/5.09(2)	6.18(1)/5.44(2)	9.35(4)/9.10(5)	11.6(4)/11.5(5)	12.8(4)/12.7(5)	14.0(4)/15.3(5)
Heating capacity	Nom.			kW	4.30(1)/4.60(2)	6.00(1)/5.90(2)	7.50(1)/7.80(2)	9.37(6)/9.00(7)	10.6(6)/9.82(7)	12.0(6)/12.5(7)	16.0(6)/16.0(7)
Power input	Cooling	Nom.		kW	0.820(1)/1.36(2)	1.08(1)/1.55(2)	1.19(1)/1.73(2)	2.79(4)/1.71(5)	3.56(4)/2.17(5)	4.06(4)/2.51(5)	4.58(4)/3.24(5)
	Heating	Nom.		kW	0.840(1)/1.26(2)	1.24(1)/1.69(2)	1.63(1)/2.23(2)	1.91(6)/2.43(7)	2.18(6)/2.68(7)	2.46(6)/3.42(7)	3.53(6)/4.56(7)
Capacity control	Method				Variable (inverter)						
EER					5.91(1)/3.32(2)	5.40(1)/3.28(2)	5.19(1)/3.14(2)	3.35(4)/5.34(5)	3.26(4)/5.31(5)	3.16(4)/5.04(5)	3.06(4)/4.74(5)
COP					5.10(1)/3.65(2)	4.85(1)/3.50(2)	4.60(1)/3.50(2)	4.91(6)/3.71(7)	4.83(6)/3.66(7)	4.87(6)/3.64(7)	4.53(6)/3.51(7)
Dimensions	Unit	Height		mm	770			870			
		Width		mm	1,250			1,380			
		Depth		mm	362			460			
Weight	Unit			kg	88.0			147			
Water heat exchanger	Type				Plate heat exchanger						
	Water volume			l	1			2			
Air heat exchanger	Type				-			High efficiency fin and tube type with integral subcooler			
Compressor	Type				Hermetically sealed swing compressor			Hermetically sealed swing inverter compressor			
	Quantity				1						
Fan	Type				Propeller fan						
	Quantity				1						
	Air flow rate	Cooling	Nom.	m^3/min	-			63	70	85	
		Heating	Nom.	m^3/min	-			48.0	55.8	70.4	85.0
Sound power level	Cooling	Nom.		dBA	61.0(1)	62.0(1)		65.5	67.0	69.0	
	Heating	Nom.		dBA	58.0(1)	60.0(1)	62.0(1)	-			
Sound pressure level	Cooling	Nom.		dBA	48.0(1)	49.0(1)	50.0(1)	44.0	47.7	50.8	51.0
	Heating	Nom.		dBA	44.0(1)	47.0(1)	49.0(1)	-			
Operation range	Air side	Cooling	Min.~Max.	°CDB	10(3)~43			10~43			
		Heating	Min.~Max.	°CDB	-25~25						
Refrigerant	Type/GWP				R-32/675.0						
	Charge			kg	1.35			-			
	Control				-			Electronic expansion valve			
	Circuits	Quantity			-			1			
Refrigerant charge	Per circuit			kg	-			3.80			
Unit	Running current	Max		A	-			30.8			
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/230 +/-10%			1~/50/230			

(1)Condition 1: cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | (2)Condition 2: cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) | (3)For more details, see operation range drawing | (4)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (5)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | (6)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | (7)Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) | (8)According to EN14825 | Depends on operation mode, refer to installation manual.





Infinitely flexible choice in heat pumps

EWYT-B

Multi scroll heat pumps with R-32 refrigerant

- Top class efficiency, SEER up to 4.92 and SCOP up to 4.06
- Low environmental impact thanks to R-32 refrigerant
- Dedicated Scroll Compressors for hot water production up 60°C
- The Global Warming Potential (GWP) of R-32 refrigerant is 675, which is only one third compared to commonly used refrigerant R-410
- The low GWP R-32 refrigerant falls into category class A2L in ISO817 and it can be safely used in many applications including chilled water systems
- As a single component refrigerant, R-32 is also easier to recycle and reuse another environmental plus in its favourWide capacity range: 80 – 650 kW
- Optimized Copper -Aluminium Coils improving performances and de-frosting operation
- Silver and Gold efficiency versions
- 3 sound configurations
- 2 different layouts: Parallel Coil and Double V Coil
- One or Two independent refrigerant circuits
- Full compatibility with Daikin on Site
- Extensive option lists
- Fan speed modulation option (VFD)

Connectivity

intelligent Chiller Manager

Daikin on Site
Fully compatible with Daikin on Site cloud based platform that allows a number of advanced functionalities including:

- Remote monitoring
- System optimization
- Preventive maintenance
- Remote access with one click via LAN or 4G LTE router

Connection to Intelligent Chiller Manager
Daikin can offer the Intelligent Chiller Manager option, allowing energy optimisation of the system and, when necessary, full customization of the control solutions to the specific installation's needs even in case of more complex installation.

- High number of units
- Cooling and Heating mode
- Peripheral controls

Parallel coils



Silver Efficiency	75-193 kW 82-213 kW	1 circuit
Gold Efficiency	80-206 kW 86-218 kW	
Silver Efficiency	189-230 kW 209-256 kW	2 circuits
Gold Efficiency	206-250 kW 215-261 kW	

Double-V coils



Silver Efficiency	270-570 kW 300-627 kW	2 circuits
Gold Efficiency	294-630 kW 306-650 kW	

Extensive option lists
Including new options:

Partial heat recovery
Introduction of condensation control allowing to mantain heat recovery capacity at lower ambient temperatures with unit operating at full capacity

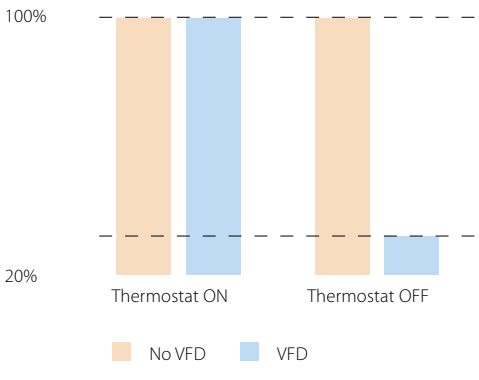
Buffer tank
Unit mounted buffer tank available all across the range for plug and play solution.

VFD pumps and variable flow control
- Variable pump speed control via extenral 0-10 volt signal
- "Thermostat on" and "thermostat off" pump speed management
- Variable primary flow control

Master/Slave supplied as standard
Master/Slave functionality allowing to manage up to 4 units on the same system without the need of external control devices.

Fan Silent Mode
The parallel coil units and units with VFD option are standardly equipped with Fan Silent Mode, which reduces fan velocity and therefore unit sound emission on scheduled time bands, enhancing comfort during night operation.

Pumping energy



BLUEVOLUTION

Air cooled multi-scroll heat pump, standard efficiency, standard/low sound

- First R-32 air cooled heat pump with Scroll compressors in the market
- Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
- One or two truly independent refrigerant circuits for outstanding reliability
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions
- Low operating cost and extended operating life thanks to the careful design aimed to optimize the energy efficiency of the chillers and to improve installation profitability, effectiveness and economical management
- Fan speed modulation to ensure precise airflow control and optimized condensing temperature
- Possible to set up detailed time bands to reduce fan rotation speed and therefore sound emission
- Thanks to the Dynamic Condensing Pressure Management, the chiller controller adjusts the condensing pressure set-point to minimize the overall chiller power input



EWYT-B MicroTech 4

EWYT-B-SS EWYT-B-SL

Heating & Cooling			EWYT-B-SS/SL	085	105	135	175	205	215	235	255	300	340	390	430	490	540	590	630	300-VFDFAN	340-VFDFAN	390-VFDFAN	430-VFDFAN	490-VFDFAN	540-VFDFAN	590-VFDFAN	630-VFDFAN
SEER				3.9	3.98	3.9	4.01	3.96	3.9	3.96	3.9	3.99	4.1	3.99	4	4.23		4.17	4.25	4.16	4.28	4.16	4.12	4.37	4.35	4.29	4.38
Space heating	Average climate water outlet 35°C	General	SCOP	3.34	3.41	3.36	3.40	3.37	3.40	3.34	3.29	3.27	3.28	3.35	3.33	3.37	3.35	3.38	3.37	3.38	3.39	3.46	3.44	3.47	3.46	3.50	3.47
			Seasonal space heating eff. class	A+														-									
Cooling capacity	Nom.		kW	75	98	120	153	189	193	212	230	270	317	350	375	434	482	531	570	270	317	350	375	434	482	531	570
Heating capacity	Nom.		kW	82.24	106.24	132.23	169.8	209.28	213.33	236.16	256.09	300.01	342.79	389.93	432.79	486.98	541.54	591.29	627.45	300.01	342.79	389.93	432.79	486.98	541.54	591.29	627.45
Power input	Cooling	Nom.	kW	28	36.6	44.6	57.8	71.3	72.3	78.9	86.5	102	117	132	147	171	192	206	219	102	117	133	147	171	192	207	219
	Heating	Nom.	kW	28.16	36.5	45.26	58.94	72.36	73.82	82.07	86.96	104.12	116.23	135.61	150.48	166.78	185.15	201.91	214.4	104.41	116.59	136.09	150.96	167.26	185.62	202.51	215
Capacity control	Method			Step																							
	Minimum capacity		%	50	38	50	38	19	50	17	25	22	19	17	25	22	19	18	17	22	19	17	25	22	19	18	17
EER				2.69	2.68	2.7	2.65	2.66	2.67	2.69	2.66	2.65	2.69	2.63	2.55	2.54	2.51	2.57	2.6	2.64	2.69	2.62	2.54	2.53	2.5	2.56	2.59
COP				2.914	2.903	2.914	2.875	2.886	2.884	2.871	2.938	2.882	2.949	2.875	2.876	2.92	2.925	2.928	2.927	2.873	2.94	2.865	2.867	2.911	2.917	2.92	2.918
IPLV				4.43	4.4	4.32	4.28	4.33	4.36	4.31	4.35	4.2	4.31	4.2	4.31	4.46	4.52	4.44	4.53	4.35	4.67	4.45	4.54	4.68	4.71	4.73	4.8
Dimensions	Unit	Height	mm	1,800								2,516															
		Width	mm	1,211								2,224															
		Length	mm	2,227	2,776	3,426		4,424	4,028	5,025		3,418		4,316				5,211		3,225		4,125				5,025	
Weight (SS)	Unit		kg	764	945	947	1,206	1,572	1,478	1,533	1,569	2,516	2,864	3,278	3,324	3,483	3,685	4,089	4,264	2,100	2,250	3,180	3,190	3,180	3,370	4,267	
	Operation weight		kg	772	953	954	1,214	1,583	1,495	1,544	1,583	2,527	2,883	3,297	3,343	3,510	3,712	4,124	4,305	2,114	2,270	3,200	3,209.71	3,207.27	3,397.27	4,302.37	4,308.08
Weight (SL)	Unit		kg	764	945	947	1,206	1,572	1,478	1,533	1,569	2,627	2,978	3,390	3,427	3,614	3,815	4,218	4,395	2,260	2,410	3,340	3,190	3,180	3,370	4,267	
	Operation weight		kg	772	953	954	1,214	1,583	1,495	1,544	1,583	2,640	2,997	3,409	3,446	3,641	3,842	4,253	4,436	2,274	2,430	3,360	3,209.71	3,207.27	3,397.27	4,302.37	4,308.08
Water heat exchanger	Type			Plate heat exchanger																							
	Water volume		l	7				11			14	20				27		35	41	14	20			27		35	41
	Water flow rate	Cooling Nom.	l/s	3.6	4.7	5.8	7.3	9	9.2	10.1	11	12.9	15.1	16.7	17.9	20.7	23	25.3	27.2	12.9	15.1	16.7	17.9	20.7	23	25.3	27.2
	Water pressure drop	Cooling Nom.	kPa	14.9	24.1	35.1	54	45	46.4	55.1	45.1	60.2	49.2	58.8	66.7	58.7	71.2	58.3	66.1	60.2	49.2	58.8	66.7	58.7	71.2	58.3	66.1
Air heat exchanger	Type			High efficiency fin and tube type																							
Compressor	Type			Scroll compressor																							
	Quantity			2				4	2	4					5	6				4			5		6		
Fan	Type			Direct propeller																							
	Quantity			4	6	8		10		12		5	6	8				10		5	6	8				10	
	Air flow rate	Nom.	l/s	6.888	10.809	14.412	13.777	17.220	17.221	20.664		28.003	33.604	46.854		45.830	44.806	57.288	56.008	28.003	33.604	46.854		45.830	44.806	57.288	56.008
	Speed		rpm	1,360								900															
Sound power level (SS)	Cooling	Nom.	dBA	84	87	89	91	90	92	91	92	94	95	96	96.3	96.6	96.8	97.5	97.8	94	94.9	95.9	96.3	96.6	96.8	97.5	97.8
Sound power level (SL)	Cooling	Nom.	dBA	83	85	87	88		89			91	92	93	92.9		93	93.9		90.8	91.6	92.8	92.9		93	93.9	
Sound pressure level (SS)	Cooling	Nom.	dBA	66	69	71	73	71	74	72	73	74	75	76	76.3	76.6	76.8	77.1	77.4	74.5	75.4	75.9	76.3	76.6	76.8	77.1	77.4
Sound pressure level (SL)	Cooling	Nom.	dBA	65	67	69	70	69		70		71	72	73	72.9		73	73.5		71.3	72.1	72.8	72.9		73	73.5	
Refrigerant	Type			R-32																							
	Charge		kg	12.7	15.8	18.5	26	34	34.8	37.2	43	41.7	48	47.1	48.6	60.3	70	78.5	87	41.7	48	47.1	48.6	60.3	70	78.5	87
	Circuits	Quantity		1				2	1	2										2							
Piping connections	Evaporator water inlet/outlet (OD) mm			88.9														114.3		88.9						114.3	
Unit	Starting current	Max	A	211.0	327.0	343.0	464.0	408.0	495.0	425.0	439.0	564.0	598.0	636.0	666.0	712.0	757.0	795.0	825.0	564	598	636	666	712	757	795	825
	Running current	Cooling Nom.	A	54.0	66.0	76.0	99.0	125.0	123.0	133.0	146.0	174.0	198.0	227.0	253.0	291.0	328.0	353.0	372.0	175	198	228	253	292	329	354	373
		Max	A	68.0	85.0	101.0	131.0	166.0	163.0	183.0	197.0	232.0	266.0	304.0	334.0	379.0	425.0	463.0	493.0	232	266	304	334	379	425	463	493
Power supply	Phase/Frequency/Voltage		Hz/V	3~/50/400																							

Air cooled multi-scroll heat pump, standard efficiency, reduced sound

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- Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
- One or two truly independent refrigerant circuits for outstanding reliability
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions
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- Fan speed modulation to ensure precise airflow control and optimized condensing temperature
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EWYT-B-SR MicroTech 4

EWYT-B-SR

Heating & Cooling				EWYT-B-SR	085	105	135	175	205	215	235	255	300	340	390	430	490	540	590	630
SEER					3.82	3.93	3.87	3.96	3.92	3.82	3.83	3.84	4.18	4.37	4.21	4.19	4.49		4.46	4.52
Space heating	Average climate water outlet 35°C	General	SCOP		3.35	3.40	3.37	3.42	3.44	3.43	3.32	3.33	3.42	3.49		3.57	3.65	3.60	3.67	3.66
			Seasonal space heating eff. class		A+		-													
Cooling capacity	Nom.			kW	74	96	119	150	186	189	209	226	265	311	344	368	424	470	519	557
Heating capacity	Nom.			kW	81.00	105.24	131.02	167.00	207.00	210.00	233.00	251.00	295.81	335.24	384.62	426.79	477.49	528.73	581.03	615.34
Power input	Cooling	Nom.		kW	28.7	37.4	45.5	59.5	73.2	74.3	80.7	88.8	102	117	131	147	172	195	207	221
	Heating	Nom.		kW	26.4	36.24	44.84	54.67	67.74	68.31	77.26	80.08	101.89	113.31	131.71	144.34	160.28	178.33	194.13	206.57
Capacity control	Method				Step															
	Minimum capacity			%	50	38	50	38	19	50	17	25	22	19	17	25	22	19	18	17
EER					2.56	2.58	2.61	2.53	2.54	2.55	2.59	2.55	2.59	2.64	2.61	2.5	2.46	2.41	2.5	2.51
COP					2.891	2.904	2.922	2.859	2.883	2.866	2.863	2.912	2.903	2.959	2.92	2.957	2.979	2.965	2.993	2.979
IPLV					4.36	4.24	4.3	4.38	4.29		4.28	4.26	4.29	4.69	4.58	4.61	4.78	4.89	4.82	4.91
Dimensions	Unit	Height		mm	1,801								2,516							
		Width		mm	1,211								2,224							
		Length		mm	2,227	2,776	3,426		4,424	4,028	5,025		3,418		4,316				5,211	
Weight	Unit			kg	764	945	947	1,206	1,572	1,478	1,533	1,569	2,627	2,978	3,390	3,427	3,614	3,815	4,218	4,395
	Operation weight			kg	772	953	954	1,214	1,583	1,495	1,544	1,583	2,640	2,997	3,409	3,446	3,641	3,542	4,253	4,436
Water heat exchanger	Type				Plate heat exchanger															
	Water volume			l	7				11			14		20			27		35	41
	Water flow rate	Cooling	Nom.	l/s	3.5	4.6	5.7	7.2	8.9	9	10	10.8	12.7	14.8	16.4	17.5	20.2	22.4	24.8	26.6
	Water pressure drop	Cooling	Nom.	kPa	14.4	23.4	34.2	52.2	43.5	44.8	53.5	43.6	58.1	47.6	57	64.4	56.3	67.8	56	63.4
Air heat exchanger	Type				High efficiency fin and tube type															
Compressor	Type				Scroll compressor															
	Quantity				2				4	2	4						5	6		
Fan	Type				Direct propeller															
	Quantity				4	6	8		10		12		5	6	8				10	
	Air flow rate	Nom.		l/s	6.026	9.483	12.644	12.052	15.064	15.065	18.078		23.608	28.330	39.446		38.610	37.774	48.262	47.216
	Speed			rpm	1,200								780							
Sound power level	Cooling	Nom.		dBA	78	82	84	85	84	87	86		87	88	89	89.3	89.4	89.5	90.4	90.5
Sound pressure level	Cooling	Nom.		dBA	60	64	65	67	66	68	67		68		69	69.3	69.4	69.5	70	70.1
Refrigerant	Type				R-32															
	Charge			kg	13.3	14.7	19.3	24.5	29	34	36.2	43	40.3	47.2	50.4	79	89	68.8	77.6	82
	Circuits	Quantity			1				2	1	2									
Piping connections	Evaporator water inlet/outlet (OD)			mm	88.9														114.3	
Unit	Starting current	Max		A	211.0	327.0	343.0	464.0	408.0	495.0	425.0	439.0	564.0	598.0	636.0	666.0	712.0	757.0	795.0	825.0
	Running current	Cooling	Nom.	A	55.0	67.0	77.0	101.0	128.0	126.0	136.0	149.0	173.0	196.0	224.0	251.0	292.0	330.0	353.0	373.0
		Max		A	68.0	85.0	101.0	131.0	166.0	163.0	183.0	197.0	232.0	266.0	304.0	334.0	379.0	425.0	463.0	493.0
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400															

BLUEVOLUTION

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EWYT-B-XS/XL

EWYT-B-XS EWYT-B-XL

Heating & Cooling				EWYT-B-XS/XL	085	115	135	175	215	215	235	265	310	350	400	440	500	560	600	630	650	VFDFAN 310	VFDFAN 350	VFDFAN 400	VFDFAN 440	VFDFAN 500	VFDFAN 560	VFDFAN 600	VFDFAN 630	VFDFAN 650
SEER					4.24	4.38	4.24	4.45	4.41	4.21	4.4	4.13	4.57	4.67	4.54	4.57	4.72	4.71	4.7	4.69	4.4	4.66	4.81	4.68	4.63	4.86	4.83	4.83	4.82	4.58
Space heating	Average climate water outlet 35°C	General	SCOP		3.70	3.72	3.70	3.67	3.70	3.66	3.86	3.77	3.90		3.82	3.85	3.83	3.81	3.79	3.76	3.53	3.96	3.97	3.93	3.91	3.96	3.93	3.87		3.68
			Seasonal space heating eff. class		A+																-									
Cooling capacity	Nom.			kW	80	104	126	166	206		229	250	288	328	370	406	467	519	560	597	610	288	328	370	406	467	519	560	597	610
Heating capacity	Nom.			kW	85.86	111.02	133.18	176.29	214.81	218.29	239.37	260.83	305.53	349.96	400.64	443.87	500.13	555.95	598.67	633.91	649.7	305.53	349.96	400.64	443.87	500.13	555.95	598.67	633.91	649.7
Power input	Cooling	Nom.		kW	26.3	35.1	42.1	56.6	68	71.8	74.9	83.4	93.9	107	122	134	158	177	193	204	207	94.1	107	123	135	158	177	193	205	207
	Heating	Nom.		kW	26.06	33.19	39.11	51.68	62.55	64.91	69.49	76.15	88.61	101.7	117.65	127.8	147.3	165.04	179.94	191.66	203.16	88.81	101.93	117.94	128.08	147.63	165.38	180.33	192.05	203.95
Capacity control	Method				Step																									
	Minimum capacity			%	50	38	50	38	19	50	17	25	22	19	17	25	22	19	18	17		22	19	17	25	22	19	18	17	
EER					3.03	2.95	2.99	2.93	3.03	2.86	3.06	3	3.06	3.05	3.02	3.01	2.95	2.93	2.9	2.92	2.95	3.06	3.05	3.01		2.95	2.92	2.9	2.91	2.94
COP					3.295	3.345	3.405	3.411	3.434	3.363	3.444	3.425	3.448	3.441	3.405	3.473	3.395	3.369	3.327	3.308	3.198	3.44	3.433	3.397	3.466	3.388	3.362	3.32	3.301	3.186
IPLV					4.75		4.69		4.87	4.72	4.87	4.64	4.94		4.96	5	5.1	5.08		5.05	4.66	4.97	5.16	5.13	5.16	5.3	5.29	5.22	5.16	4.99
Dimensions	Unit	Height		mm	1,801								2,516																	
		Width		mm	1,211								2,224																	
		Length		mm	2,776	3,426		4,024	5,625	4,628	6,223		4,316	5,211		6,112		7,010				4,125		5,025		5,925		6,825		
Weight (XS)	Unit			kg	927	930	996	1,367	2,099	1,522	1,766	1,797	3,073	3,254	3,613	3,933	4,208	4,457	4,791	4,957		2,830	3,080	3,650	3,750	4,206	4,296	4,760	4,860	
	Operation weight			kg	938	941	1,007	1,393	2,135	1,564	1,796	1,827	3,103	3,289	3,648	3,945	4,270	4,527	4,861	5,087		2,865	3,115	3,685.37	3,811.88	4,267.88	4,366.2	4,830.2	4,930.2	
Weight (XL)	Unit			kg	927	930	996	1,367	2,099	1,522	1,766	1,797	3,181	3,367	3,716	4,035	4,337	4,586	4,922	5,089		3,140	3,240	3,650	3,750	4,206	4,296	4,760	4,860	
	Operation weight			kg	938	941	1,007	1,393	2,135	1,564	1,796	1,827	3,216	3,402	3,751	4,097	4,399	4,656	4,992	5,159		3,175	3,275	3,685.37	3,811.88	4,267.88	4,366.2	4,830.2	4,930.2	
Water heat exchanger	Type				Plate heat exchanger																									
	Water volume			l	11			16	35	16	35					62		70				35			62			70		
	Water flow rate	Cooling	Nom.	l/s	3.8	5	6	7.9	9.8		10.9	11.9	13.7	15.7	17.7	19.4	22.3	24.7	26.7	28.5	29.1	13.7	15.7	17.7	19.4	22.3	24.7	26.7	28.5	29.1
	Water pressure drop	Cooling	Nom.	kPa	9.49	15.2	21.5	20.1	12	29.6	14.6	17.1	22	27.9	34.7	23.6	30.4	33.6	38.6	43.2	45	22	27.9	34.7	23.6	30.4	33.6	38.6	43.2	45
Air heat exchanger	Type				High efficiency fin and tube type																									
Compressor	Type				Scroll compressor																									
	Quantity				2				4	2	4					5	6					4			5	6				
Fan	Type				Direct propeller																									
	Quantity				6	8		10	14	12	16		7	8	10		12		14			7	8	10		12		14		
	Air flow rate	Nom.		l/s	9.039	12.644	12.052	15.065	21.090	18.078	24.104		29.593	33.820	43.351	42.276	52.021	50.730	60.692	59.186	78.410	29.593	33.820	43.351	42.276	52.021	50.730	60.692	59.186	78.410
	Speed			rpm	1,200								700								900	700								900
Sound power level (XS)	Cooling	Nom.		dBA	81	86	88	90	89	91	90	91	92	93	94.2	94.8	95.3	95.6	96.1	96.5	98.4	92.4	93.4	94.2	94.8	95.3	95.6	96.1	96.5	98.4
Sound power level (XL)	Cooling	Nom.		dBA	79.5	82.6	84.1	86.2	85.4	87.5	86.4	87.1	86	87	88	88.2	88.9	89	89.6	89.7	95.3	86.4	87.1	88	88.2	88.9	89	89.6	89.7	95.3
Sound pressure level (XS)	Cooling	Nom.		dBA	63	67	69	71	69	73	70	71	72	73	73.8	74.4	74.5	74.8	75	75.4	77.3	72.4	73.4	73.8	74.4	74.5	74.8	75	75.4	77.3
Sound pressure level (XL)	Cooling	Nom.		dBA	61	64	65	67	66	68	66	67	66	67	67.6	67.8	68.1	68.2	68.5	68.6	74.2	66.4	67.1	67.6	67.8	68.1	68.2	68.5	68.6	74.2
Refrigerant	Type				R-32																									
	Charge			kg	17.7	18.3	22	33.7	42.4	51.6	48.6	46	52.4	60.4	70.5	84	87.5	92	114	100	113	52.4	60.4	70.5	84	87.5	92	114	100	113
	Circuits	Quantity			1			2	1		2																			
Piping connections	Evaporator water inlet/outlet (OD) mm				88.9											114.3						88.9				114.3				
Unit	Starting current	Max		A	213.0	329.0	343.0	465.0	412.0	497.0	429.0	443.0	562.0	594.0	629.0	659.0	710.0	755.0	790.0	820.0	841.0	572	606	644	674	728	773	811	841	
	Running current	Cooling	Nom.	A	53.0	65.0	75.0	99.0	122.0	123.0	132.0	143.0	170.0	192.0	215.0	236.0	276.0	313.0	338.0	358.0	361.0	170	193	216	237	277	313	339	359	362
		Max		A	70.0	87.0	101.0	133.0	170.0	165.0	186.0	201.0	229.0	262.0	297.0	327.0	377.0	423.0	458.0	488.0	509.0	240	274	312	342	395	441	479	509	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400																									

Air cooled multi-scroll heat pump, high efficiency, reduced sound

- First R-32 air cooled heat pump with Scroll compressors in the market
- Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
- One or two truly independent refrigerant circuits for outstanding reliability
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions
- Low operating cost and extended operating life thanks to the careful design aimed to optimize the energy efficiency of the chillers and to improve installation profitability, effectiveness and economical management
- Fan speed modulation to ensure precise airflow control and optimized condensing temperature
- Possible to set up detailed time bands to reduce fan rotation speed and therefore sound emission
- Thanks to the Dynamic Condensing Pressure Management, the chiller controller adjusts the condensing pressure set-point to minimize the overall chiller power input



EWYT-B

EWYT-B-XR

Heating & Cooling				EWYT-B-XR	085	115	135	175	215	215	235	265	310	350	400	440	500	560	600	630	650
SEER					4.21	4.37	4.21	4.41	4.16	4.42	4.43	4.13	4.74	4.8	4.82	4.63	4.92	4.89	4.83	4.79	4.72
Space heating	Average climate water outlet 35°C	General	SCOP		3.66	3.71	3.65	3.83	3.74	3.70	3.82	3.81	4.06	4.01	3.95	4.03	3.99	4.04	4.00	3.98	3.88
			Seasonal space heating eff. class		A+		-														
Cooling capacity	Nom.			kW	79	103	124	164	203	204	227	247	282	321	364	398	458	507	548	583	600
Heating capacity	Nom.			kW	84.9	110.32	132.02	174.14	216.57	213.48	237.57	256.58	301.04	344.8	395.81	438.23	494.13	549.6	588.57	620.71	637.4
Power input	Cooling	Nom.		kW	26.6	35.4	42.6	57.4	72.9	68.8	75.7	84.4	95.2	111	124	136	160	180	196	208	203
	Heating	Nom.		kW	25.87	32.94	38.82	51.3	64.51	62.13	68.99	75.49	86.19	98.95	114.46	124.61	143.5	161.2	175.33	186.93	193.22
Capacity control	Method				Step																
	Minimum capacity			%	50	38	50	38	50	19	17	25	22	19	17	25	22	19	18	17	
EER					2.98	2.9	2.92	2.86	2.79	2.97	3	2.93	2.96	2.95	2.93	2.91	2.85	2.81	2.8		2.94
COP					3.282	3.349	3.401	3.394	3.357	3.436	3.443	3.399	3.493	3.485	3.458	3.517	3.443	3.409	3.357	3.321	3.299
IPLV					4.73		4.67	4.65	4.67	4.86	4.82	4.62	4.92	5.12	5.26	5.12	5.34	5.32	5.22	5.23	5.19
Dimensions	Unit	Height		mm	1,801								2,514			2,527					
		Width		mm	1,211								2,224								
		Length		mm	2,776	3,426		4,024	4,628	5,625	6,223		4,316		5,211		6,112		7,010		
Weight	Unit			kg	927	930	996	1,367	1,522	2,099	1,766	1,797	3,181	3,367	3,716	4,035	4,337	4,586	4,922	5,089	
	Operation weight			kg	938	941	1,007	1,393	1,564	2,135	1,796	1,827	3,216	3,402	3,751	4,097	4,399	4,656	4,992	5,159	
Water heat exchanger	Type				Plate heat exchanger																
	Water volume			l	11			16		35						62		70			
	Water flow rate	Cooling	Nom.	l/s	3.8	4.9	5.9	7.8	9.7		10.8	11.8	13.4	15.3	17.3	19	21.8	24.2	26.2	27.8	28.6
	Water pressure drop	Cooling	Nom.	kPa	9.33	14.9	21.1	19.6	28.9	11.8	14.3	16.8	21.2	26.8	33.5	22.7	29.2	32.2	37.1	41.4	43.7
Air heat exchanger	Type				High efficiency fin and tube type																
Compressor	Type				Scroll compressor																
	Quantity				2					4							5	6			
Fan	Type				Direct propeller																
	Quantity				6	8		10	12	14	16		7	8	10		12		14		
	Air flow rate	Nom.		l/s	8.298	11.630	11.064	13.830	16.596	19.362	22.128		25.074	28.656	36.808	35.820	44.169	42.984	51.531	50.148	66.104
	Speed			rpm	1,108								600								780
Sound power level	Cooling	Nom.		dBA	77	81	83	85	87	84	85	86	84		85.2	85.5	86.2	86.3	86.9	87.1	91.6
Sound pressure level	Cooling	Nom.		dBA	59	63	65	67	68	65		66	64		64.8	65.1	65.4	65.5	65.8	66	70.5
Refrigerant	Type				R-32																
	Charge			kg	17.4	18.4	21.5	30	40	44.6	50	53.4	54.4	62	71.5	78	114.5	93	103.4	106	109
	Circuits	Quantity			1					2											
Piping connections	Evaporator water inlet/outlet (OD)			mm	88.9											114.3					
Unit	Starting current	Max		A	213.0	329.0	343.0	465.0	497.0	412.0	429.0	443.0	572.0	606.0	644.0	674.0	728.0	773.0	811.0	841.0	
	Running current	Cooling	Nom.	A	53.0	65.0	75.0	100.0	124.0	123.0	133.0	145.0	169.0	192.0	214.0	237.0	276.0	315.0	339.0	360.0	353.0
		Max		A	70.0	87.0	101.0	133.0	165.0	170.0	186.0	201.0	240.0	274.0	312.0	342.0	395.0	441.0	479.0	509.0	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400																

Air cooled scroll inverter heat pump, split version

- Inverter Heat Pump in Split version
- Daikin scroll compressor
- High part load efficiency for low running cost
- Glycol free application
- Wide operation range and hot water production up to 60°C
- Integrated hydronic module as standard



EWYT-CZI

EWYT-CZI

Indoor Unit				EWYT	021CZI-A1	032CZI-A1	040CZI-A1	064CZI-A2
Casing	Colour				Ivory white			
	Material				Galvanized and painted steel sheet			
Dimensions	Unit	HeightxWidthxDepth		mm	700x1,120x830			
Weight	Unit			kg	133	144		172
Operation range	Heating	Ambient	Min.~Max.	°C	-20 ~35			
		Water side	Min.~Max.	°C	20 ~60			
	Cooling	Ambient	Min.~Max.	°CDB	-20 ~45			
		Water side	Min.~Max.	°C	4 ~20			
Sound power level	Nom.			dBA	63.0	64.5		66.0

EWYT-CZO

Air cooled scroll inverter heat pump, split version

- Inverter Heat Pump in Split version
- Daikin scroll compressor
- High part load efficiency for low running cost
- Glycol free application
- Wide operation range and hot water production up to 60°C
- Integrated hydronic module as standard



EWYT-CZO

EWYT-CZO

Outdoor Unit			EWYT	021CZO-A1	032CZO-A1	040CZO-A2	064CZO-A2
Dimensions	Unit	HeightxWidthxDepth	mm	1,878x1,152x802	1,878x1,752x802		1,878x2,906x814
Weight	Unit		kg	265	357		620
Compressor	Quantity			1			2
	Type			Scroll compressor			
Refrigerant	Type			R-32			
	GWP			675.0			
	Charge		kg	7.3	9.5	9.8	16.6
	Charge		TCO2Eq	4,928.0	6,422.0	6,635.0	11,255.0
Sound power level	Cooling	Nom.	dBA	76.0	79.0	80.0	83.0
Sound pressure level	Cooling	Nom.	dBA	59.6	62.2	63.2	65.4
Power supply	Phase/Frequency/Voltage		Hz/V	3N~/50/400			

INVERTER

Air cooled screw inverter heat pump, standard efficiency, standard sound

- Ideal solution for commercial comfort cooling and/or heating applications
- Optimum ESEER values
- 2-3 truly independent refrigerant circuits
- Low starting current
- DX shell and tube evaporator – one pass refrigerant side to minimize pressure drops
- Standard electronic expansion valve
- Optimised defrost cycles
- Partial and total heat recovery option available
- Power factor up to 0.95
- PID microprocessor control



EWYD-BZSS

Inverter technology

Screw compressor

EWYD-BZSS

Heating & Cooling				EWYD-BZSS	250	270	290	320	340	370	380	410	440	460	510	530	570
SEER					-										4.57		4.55
Space heating	Average climate water outlet 35°C	General	SCOP		3.21		3.20		3.21				3.20		-		
Cooling capacity	Nom.			kW	253	272	291	323	337	363	380	411	433	455	515	533	569
Heating capacity	Nom.			kW	271	298	325	334	350	380	412	445	465	477	532.86	560.55	618.33
Power input	Cooling	Nom.		kW	91.3	101	110	117	125	135	144	154	165	163	183	189	217
	Heating	Nom.		kW	91.4	100	108	118	126	133	143	157	167	165	177.37	184.84	208.14
Capacity control	Method				Stepless												
	Minimum capacity			%	13.0									9.0	9		
EER					2.77	2.70	2.65	2.75	2.69	2.68	2.63	2.66	2.62	2.79	2.81		2.62
ESEER					3.93	3.92	3.89	3.95	3.89	3.90	3.82	3.91	3.89	4.18	-		
COP					2.96	2.97	3.00	2.82	2.78	2.85	2.88	2.83	2.79	2.88	3.004	3.033	2.971
IPLV					4.58	4.62		4.75	4.64	4.71	4.67	4.73	4.69	4.85	4.89	4.85	4.77
Dimensions	Unit	Height		mm	2,335									2,280	2,280		
		Width		mm	2,254										2,254		
		Length		mm	3,547			4,428				5,329		6,659	6,659		
Weight	Unit			kg	3,410	3,455	3,500	3,870		3,940	4,010	4,390		5,015	5,495	5,735	
	Operation weight			kg	3,550	3,595	3,640	4,010		4,068	4,138	4,518		5,255	5,724	5,964	5,953
Water heat exchanger	Type				Single pass shell & tube										Shell and tube		
	Water volume			l	138			133			128			240	229		218
	Water flow rate	Cooling	Nom.	l/s	12.1	13.0	13.9	15.5	16.2	17.4	18.2	19.7	20.8	21.8	24.7	25.5	27.3
		Heating	Nom.	l/s	13.1	14.4	15.7	16.1	16.9	18.3	19.8	21.4	22.4	23.0	-		
	Water pressure drop	Cooling	Nom.	kPa	40	46	44	50	55	60	65	74	80	47	68.4	46.5	52.4
		Heating	Nom.	kPa	30	35	52	37	40	45	51	59	64	42	-		
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler										High efficiency fin and tube type		
Compressor	Type				Single screw compressor												
	Quantity				2									3	3		
Fan	Type				Direct propeller												
	Quantity				6			8				10		12	12		
	Air flow rate	Nom.		l/s	31,729	31,422	31,115	42,306		42,337	41,487	52,882		63,458	62,640	61,652	48,191
	Speed			rpm	900										900		
Sound power level	Cooling	Nom.		dBA	101							102		104	103.6		
Sound pressure level	Cooling	Nom.		dBA	82							83		84	83.7		
Operation range	Air side	Cooling	Min.~Max.	°CDB	-10~45										-~-		
		Heating	Min.~Max.	°CDB	-10~20										-~-		
	Water side	Cooling	Min.~Max.	°CDB	-8~15										-~-		
		Heating	Min.~Max.	°CDB	35~55										-~-		
Refrigerant	Type/GWP				R-134a/1,430										R-134a/-		
	Charge			kg	-										141		147
	Circuits	Quantity			2									3	3		
Refrigerant charge	Per circuit			kg	43.0	44.0	43.0	46.0	46.5		47.0	50.0		47.0	-		
	Per circuit			TCO2Eq	61.5	62.9	61.5	65.8	66.5		67.2	71.5		67.2	-		
Piping connections	Evaporator water inlet/outlet (OD)				139.7mm									219.1mm			
Unit	Starting current	Max		A	150		181	204				224	238	245	327	355	344
	Running current	Cooling	Nom.	A	137	150	164	176	188	202	214	229	244	246	298	310	349
		Max		A	211		212	254	288			316	336	329	433	474	458
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400										3~/50/400		

Air cooled screw inverter heat pump, standard efficiency, low sound

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- PID microprocessor control



EWYD-BZSL

Inverter technology

Screw compressor

EWYD-BZSL

Heating & Cooling				EWYD-BZSL	250	270	290	320	330	360	370	400	430	450	510	530	570
SEER					-										4.56	4.6	4.55
Space heating	Average climate water outlet 35°C	General	SCOP		3.21		3.20		3.21				3.20		-		
Cooling capacity	Nom.			kW	247	265	290	315	330	353	370	401	423	446	503	519	569
Heating capacity	Nom.			kW	271	298	325	334	350	380	412	445	465	477	532.86	560.55	618.33
Power input	Cooling	Nom.		kW	89.5	99.5	110	115	123	134	144	151	163	158	178	185	217
	Heating	Nom.		kW	91.4	100	108	118	126	133	143	157	167	165	177.37	184.84	208.14
Capacity control	Method				Stepless												
	Minimum capacity			%	13.0									9.0	9		
EER					2.76	2.66	2.62	2.75	2.68	2.64	2.57	2.66	2.59	2.83	2.82	2.8	2.62
ESEER					4.06	4.04	4.03	4.17	4.09	4.04	4.01	4.06	4.02	4.18	-		
COP					2.96	2.97	3.00	2.82	2.78	2.85	2.88	2.83	2.79	2.88	3.004	3.033	2.971
IPLV					4.90	4.96	4.91	5.17	5.08	5.12	5.06	5.22	5.13	5.07	5.03	4.99	4.89
Dimensions	Unit	Height		mm	2,335									2,280	2,280		
		Width		mm	2,254										2,254		
		Length		mm	3,547			4,428				5,329		6,659	6,659		
Weight	Unit			kg	3,750	3,795	3,840	4,210		4,280	4,350	4,730		5,525	6,005	6,245	
	Operation weight			kg	3,888	3,933	3,978	4,343		4,408	4,478	4,858		5,765	6,234	6,474	6,463
Water heat exchanger	Type				Single pass shell & tube										Shell and tube		
	Water volume			l	138			133		128				240	229		218
	Water flow rate	Cooling	Nom.	l/s	11.8	12.7	13.9	15.1	15.8	16.9	17.7	19.2	20.3	21.4	24.1	24.9	27.3
		Heating	Nom.	l/s	13.1	14.4	15.7	16.1	16.9	18.3	19.8	21.4	22.4	23.0	-		
	Water pressure drop	Cooling	Nom.	kPa	38	44	42	48	53	57	62	71	77	45	65.5	44.4	52.4
		Heating	Nom.	kPa	30	35	52	37	40	45	51	59	64	42	-		
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler										High efficiency fin and tube type		
Compressor	Type				Single screw compressor												
	Quantity				2									3	3		
Fan	Type				Direct propeller												
	Quantity				6			8				10		12	12		
	Air flow rate	Nom.		l/s	-										48,415	47,732	48,191
		Cooling	Nom.	l/s	24,432	24,264	24,095	32,576		32,628	32,127	40,720		48,863	-		
	Speed			rpm	700										900		
Sound power level	Cooling	Nom.		dBA	94			95						97	97		
Sound pressure level	Cooling	Nom.		dBA	76									77	77.2		
Operation range	Air side	Cooling	Min.~Max.	°CDB	-10~45										-~-		
		Heating	Min.~Max.	°CDB	-10~20										-~-		
	Water side	Cooling	Min.~Max.	°CDB	-8~15										-~-		
Operation range	Water side	Heating	Min.~Max.	°CDB	35~55										-~-		
Refrigerant	Type/GWP				R-134a/1,430										R-134a/-		
	Charge			kg	-										141		147
	Circuits	Quantity			2									3	3		
Refrigerant charge	Per circuit			kg	43.0	44.0	43.0	46.0		46.5	47.0	50.0		47.0	-		
	Per circuit			TCO2Eq	61.5	62.9	61.5	65.8		66.5	67.2	71.5		67.2	-		
Piping connections	Evaporator water inlet/outlet (OD)				139.7mm									219.1mm			
Unit	Starting current	Max		A	145		146	176		199		217	231	234	316	344	
	Running current	Cooling	Nom.	A	134	148	163	171	184	199	212	224	240	238	291	305	349
		Max		A	202		203	243		277		302	322	313	416	458	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400										3~/50/400		


cordeel
40
cordeel
39
DAIKIN
CTU-2X4

Air to water polyvalent unit

- Simultaneous heating and cooling with R-513A refrigerant
- VFD regulation & VVR control maintaining power factor always greater than 0.95
- No current spikes at the start-up and the set-point conditions are reached in less than one minute
- Two independent refrigerant circuits and Single Screw Compressor technology
- Intelligent Chiller Manager (iCM) managing the unit and ensuring the integration of EWYS-4Z into a system with distinct types of units
- It is equipped with the cloud-based remote monitoring system Daikin on Site

Technical specifications						EWYS4004ZXSB2	EWYS4504ZXSB2	EWYS5004ZXSB2	EWYS5504ZXSB2	EWYS6004ZXSB2	EWYS6504ZXSB2	EWYS7004ZXSB2	EWYS8004ZXSB2
Cooling capacity	Nom.				kW	393.1	440.8	495.2	532.1	584.5	644.4	682.5	765.7
Heating capacity	Nom.				kW	403.1	442.9	506.1	536.1	588	650.4	680.4	790.3
Capacity control	Method					Stepless							
	Minimum capacity				%	17	15		13		12	11	10
Power input	Cooling	Nom.			kW	135.55	151.48	166.73	189.36	196.80	221.44	221.59	256.09
	Heating	Nom.			kW	126.76	136.28	153.83	163.94	178.72	201.36	201.90	235.91
EER						2.90	2.91	2.97	2.81	2.97	2.91	3.08	2.99
COP						3.18	3.25	3.29	3.27	3.29	3.23	3.37	3.35
SCOP						3.21	3.24	3.4	3.31	3.46	3.3	3.36	3.49
SEER						4.55	4.55	4.85	4.71	4.91	5.01	5.14	5.11
Dimensions	Unit	Depth			mm	5,825	5,825	6,725	6,725	7,625	8,525	8,525	8,525
		Height			mm	2,465	2,465	2,465	2,465	2,465	2,465	2,465	2,465
		Width			mm	2,285	2,285	2,285	2,285	2,285	2,285	2,285	2,285
Weight	Operation weight				kg	6,540	6,560	7,560	7,560	8,935	9,540	10,785	10,820
	Unit				kg	6,075	6,095	6,870	6,870	7,850	8,435	9,405	9,430
Casing	Colour					Ivory White							
	Material					Galvanized Steel Sheet							
Water heat exchanger	Type					Shell & Tubes							
	Water flow rate	Cooling	Nom.		l/s	18.8	21.1	23.7	25.5	28	30.8	32.7	36.6
		Heating	Nom.		l/s	19.4	21.3	24.4	25.8	28.4	31.4	32.8	38.1
	Water pressure drop	Cooling	Nom.		kPa	37.6	46	38.6	43.8	43.9	31.5	39.1	33.9
		Heating	Nom.		kPa	38.2	45.2	34.4	38.2	36.1	26.5	31.1	29.9
	Water volume				l	126		214		369	361	468	
Air heat exchanger	Type					Tube & Fins							
Fan	Quantity					10		12		14	16		
	Type					Brushless							
Compressor	Quantity					2							
	Type					Inverter Screw							
	Oil	Charged volume			l	28						38	
Operation range	Water side	Evaporator	Min.		°CDB	-8							
			Max.		°CDB	20							
		Condenser	Min.		°CDB	30							
			Max.		°CDB	60							
Sound power level	Cooling	Nom.			dBA	99	98	99	99	100		102	
Sound pressure level	Cooling	Nom.			dBA	78	77		78		79	80	
Refrigerant	Type					R513A							
	GWP					630	631	632	633	634	635	636	637
	Charge				kg	198							
	Circuits	Quantity				2							
Piping connections	Evaporator water inlet/outlet (OD)					219.1							

Electrical specifications					EWYS4004ZXSB2	EWYS4504ZXSB2	EWYS5004ZXSB2	EWYS5504ZXSB2	EWYS6004ZXSB2	EWYS6504ZXSB2	EWYS7004ZXSB2	EWYS8004ZXSB2
Power supply	Phase				3							
	Frequency			Hz	50							
	Voltage			V	400							
	Voltage range	Min.		%	-10							
		Max.		%	+10							
Unit	Starting current	Max		A	0							
	Running current	Cooling	Nom.	A	236	272	293	332	343	378	395	454
		Max		A	335	374	396	451	473	524	550	656
	Max unit current for wires sizing			A	369	411	436	496	520	576	605	722

Water to water mode					EWYS4004ZXSB2	EWYS4504ZXSB2	EWYS5004ZXSB2	EWYS5504ZXSB2	EWYS6004ZXSB2	EWYS6504ZXSB2	EWYS7004ZXSB2	EWYS8004ZXSB2
Cooling capacity	Nom.			kW	306.9	344.6	386	421.8	469.8	505.7	542.2	621.7
Heating capacity	Nom.			kW	403.1	442.9	506.1	536.1	588	650.4	680.4	790.3
Power Input				kW	98.3	110.9	120.1	132.0	139.4	152.7	160.0	179.2
TEER				kW	7.22	7.1	7.43	7.26	7.59	7.57	7.64	7.88
Water heat exchanger	Water flow rate	Cooling	Nom.	l/s	18.8	21.1	23.7	25.5	28	30.8	32.7	36.6
		Heating	Nom.	l/s	19.4	21.3	24.4	25.8	28.4	31.4	32.8	38.1
	Water pressure drop	Cooling	Nom.	kPa	37.6	46	38.6	43.8	43.9	31.5	39.1	33.9
		Heating	Nom.	kPa	38.2	45.2	34.4	38.2	36.1	26.5	31.1	29.9
	Water volume			l	126	126	214	214	369	361	468	468



EWYS-4Z

Technical specifications					EWYS4004ZXRB2	EWYS4504ZXRB2	EWYS5004ZXRB2	EWYS5504ZXRB2	EWYS6004ZXRB2	EWYS6504ZXRB2	EWYS7004ZXRB2	EWYS8004ZXRB2
Cooling capacity	Nom.			kW	350.3	380.8	434.2	485	534.3	578.4	613.2	672.3
Heating capacity	Nom.			kW	363.6	404.4	447.6	499.1	549.8	612.6	650.7	708.4
Capacity control	Method				Stepless							
	Minimum capacity			%	20	18	17	14	14	13	12	11
Power input	Cooling	Nom.		kW	121.21	137.97	149.21	175.09	190.14	201.53	212.92	240.97
	Heating	Nom.		kW	110.52	117.56	129.36	145.51	162.18	182.32	187.52	202.40
EER					2.89	2.76	2.91	2.77	2.81	2.87	2.88	2.79
COP					3.29	3.44	3.46	3.43	3.39	3.36	3.47	3.50
SCOP					3.2	3.22	3.32	3.29	3.3	3.27	3.33	3.38
SEER					4.63	4.55	4.78	4.82	5.07	5.15	5.05	5.13
Dimensions	Unit	Depth		mm	5,825	5,825	6,725	6,725	7,625	8,525	8,525	8,525
		Height		mm	2,465	2,465	2,465	2,465	2,465	2,465	2,465	2,465
		Width		mm	2,285	2,285	2,285	2,285	2,285	2,285	2,285	2,285
Weight	Operation weight			kg	6,705	6,725	7,725	7,725	9,100	9,705	11,075	11,110
	Unit			kg	6,240	6,260	7,035	7,035	8,015	8,600	9,690	9,715
Casing	Colour				Ivory White							
	Material				Galvanized Steel Sheet							
Water heat exchanger	Type				Shell & Tubes							
	Water flow rate	Cooling	Nom.	l/s	16.8	18.2	20.8	23.2	25.6	27.7	29.3	32.1
		Heating	Nom.	l/s	17.5	19.5	21.6	24.1	26.5	29.6	31.4	34.2
	Water pressure drop	Cooling	Nom.	kPa	30.7	35.8	30.7	37.4	37.6	26.1	32.5	27
		Heating	Nom.	kPa	31.7	38.4	27.6	33.6	32	23.8	28.7	24.6
	Water volume			l	126	126	214	214	369	361	468	468
Air heat exchanger	Type				Tube & Fins							
Fan	Quantity				10		12		14	16		
	Type				Brushless							
Compressor	Quantity				2							
	Type				Inverter Screw							
	Oil	Charged volume		l	28						38	
Operation range	Water side	Evaporator	Min.	°CDB	-8							
			Max.	°CDB	20							
		Condenser	Min.	°CDB	30							
			Max.	°CDB	60							
Sound power level	Cooling	Nom.		dBA	88	87	88		89		91	
Sound pressure level	Cooling	Nom.		dBA	67	66	67		68	67	69	
Refrigerant	Type				R513A							
	GWP				638	639	640	641	642	643	644	645
	Charge			kg	198							
	Circuits	Quantity			2							
Piping connections	Evaporator water inlet/outlet (OD)				219.1							

Electrical specifications					EWYS4004ZXRB2	EWYS4504ZXRB2	EWYS5004ZXRB2	EWYS5504ZXRB2	EWYS6004ZXRB2	EWYS6504ZXRB2	EWYS7004ZXRB2	EWYS8004ZXRB2
Power supply	Phase				3							
	Frequency			Hz	50							
	Voltage			V	400							
	Voltage range	Min.		%	-10							
		Max.		%	+10							
Unit	Starting current	Max		A	0							
	Running current	Cooling	Nom.	A	228	253	274	329	340	360	388	431
		Max		A	335	374	396	451	473	524	550	656
	Max unit current for wires sizing			A	369	411	436	496	520	576	605	722

Water to water mode					EWYS4004ZXRB2	EWYS4504ZXRB2	EWYS5004ZXRB2	EWYS5504ZXRB2	EWYS6004ZXRB2	EWYS6504ZXRB2	EWYS7004ZXRB2	EWYS8004ZXRB2
Cooling capacity	Nom.			kW	275.9	306.4	344.1	375.4	426.5	463.6	479.5	532.9
Heating capacity	Nom.			kW	363.6	404.4	447.6	499.1	549.8	612.6	650.7	708.4
Power Input				kW	87.8	98.3	104.6	118.2	126.0	140.0	147.4	157.3
TEER				kW	7.28	7.23	7.57	7.4	7.75	7.69	7.67	7.89
Water heat exchanger	Water flow rate	Cooling	Nom.	l/s	16.8	18.2	20.8	23.2	25.6	27.7	29.3	32.1
		Heating	Nom.	l/s	17.5	19.5	21.6	24.1	26.5	29.6	31.4	34.2
	Water pressure drop	Cooling	Nom.	kPa	30.7	35.8	30.7	37.4	37.6	26.1	32.5	27
		Heating	Nom.	kPa	31.7	38.4	27.6	33.6	32	23.8	28.7	24.6
	Water volume			l	126		214		369	361	468	

Air cooled screw condensing unit, standard efficiency, standard sound

- One refrigerant circuit with single screw compressor
- Compact design
- Large operation range (ambient temperature down to -18°C)
- Extensive option list (heat recovery option available)



ERAD-E-SS/SL



Screw compressor



MicroTech 4

ERAD-E-SS

Cooling only				ERAD-E-SS	120	140	170	200	220	250	310	370	440	490
Cooling capacity	Nom.			kW	121	144	165	196	219	251	309	370	435	488
Power input	Cooling	Nom.		kW	42.1	51.2	57.7	65.6	74.2	77.0	93.8	123	148	161
Capacity control	Method				Stepless									
	Minimum capacity			%	25.0									
EER					2.88	2.82	2.86	2.99	2.95	3.27	3.30	3.02	2.95	3.02
Dimensions	Unit	Height		mm	2,273						2,223			
		Width		mm	1,292						2,236			
		Length		mm	2,165		3,065		3,965		3,070			
Weight	Unit			kg	1,584		1,741		1,936		2,679			
	Operation weight			kg	1,617		1,781		1,981		2,756			
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler									
Compressor	Type				Single screw compressor									
	Quantity				1									
Fan	Type				Direct propeller									
	Air flow rate	Nom.		l/s	10,924	10,576	16,386	15,865	21,848	21,153	32,772		31,729	
	Quantity				2		3		4		6			
	Speed	Cooling	Nom.	rpm	900									
Sound power level	Cooling	Nom.		dBA	92.0				93.0	94.0		95.0		
Sound pressure level	Cooling	Nom.		dBA	74.0					75.0				76.0
Operation range	Saturated suction temp.			°C	-9~12									
	Condenser inlet temp.			°C	-18~48									
Refrigerant	Type / GWP				R-134a / 1,430									
	Circuits	Quantity			1									
Piping connections	Evaporator water inlet/outlet (OD)				76mm							139.7mm		
Unit	Maximum Starting current			A	151		195		288		330	410		
	Nominal running current (RLA)		Cooling	A	72	88	98	110	125	129	158	204	244	266
	Maximum running current			A	86	103	119	132	157	164	198	242	284	298
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400									

Air cooled screw condensing unit, standard efficiency, low sound

- One refrigerant circuit with single screw compressor
- Compact design
- Large operation range (ambient temperature down to -18°C)
- Extensive option list (heat recovery option available)



ERAD-E-SL

Cooling only				ERAD-E-SL	120	140	160	190	210	240	300	350	410	460
Cooling capacity	Nom.			kW	116	137	159	187	209	243	298	352	409	462
Power input	Cooling	Nom.		kW	42.4	52.5	57.7	66.3	73.9	78.1	91.9	122	150	167
Capacity control	Method				Stepless									
	Minimum capacity			%	25.0									
EER					2.74	2.61	2.75	2.83		3.11	3.24	2.88	2.73	2.76
Dimensions	Unit	Height		mm	2,273						2,223			
		Width		mm	1,292						2,236			
		Length		mm	2,165		3,065		3,965		3,070			
Weight	Unit			kg	1,684		1,841		2,036		2,789			
	Operation weight			kg	1,717		1,881		2,081		2,886			
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler									
Compressor	Type				Single screw compressor									
	Quantity				1									
Fan	Type				Direct propeller									
	Air flow rate	Nom.		l/s	8,373	8.144	12,560	12,216	16,747	16,288	25,120		24,432	
	Quantity				2		3		4		6			
	Speed	Cooling	Nom.	rpm	700									
Sound power level	Cooling	Nom.		dBA	89.0		90.0		91.0		92.0			93.0
Sound pressure level	Cooling	Nom.		dBA	71.0						73.0			74.0
Operation range	Saturated suction temp			°C	-9~12									
	Condenser inlet temp			°C	-18~48									
Refrigerant	Type / GWP				R-134a / 1,430									
	Circuits	Quantity			1									
Piping connections	Evaporator water inlet/outlet (OD)				76mm							139.7mm		
Unit	Maximum Starting current			A	151		195		288		330	410		
	Nominal running current (RLA)		Cooling	A	73	90	98	112	125	131	155	204	249	275
	Maximum running current			A	83	100	115	128	151	158	189	234	276	290
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400									

Water to water modular heat pumps

- Plug & play solution for easier facility management
- High scalability potential due to its modularity
- Single power supply for the array of modules available as option
- The manifold kit connects modules on the water side making it a plug & play solution
- It has limited environmental impact by using R-32 refrigerant, contributing to Green Building protocols BREEAM and LEED



EWW(H)(L)T-Q

Indoor

Outdoor unit

Modular design

Scroll compressor

Brazed plate heat exchangers

EWWT-Q--XR/XS

Technical specifications					EWWT100Q-XSA1	EWWT125Q-XSA1	EWWT160Q-XSA1	EWWT100Q-XRA1	EWWT125Q-XRA1	EWWT160Q-XRA1
Cooling capacity	Nom.			kW	96.36	124.4	166.0	96.36	124.4	166.0
Heating capacity	Nom.			kW	110.2	142.8	186.7	110.2	142.8	186.7
Capacity control	Method				On/Off					
	Minimum capacity			%	50					
Power input	Cooling	Nom.		kW	20.99	27.95	34.44	20.99	27.95	34.44
	Heating	Nom.		kW	26.11	34.49	42.53	26.11	34.49	42.53
EER					4.59	4.45	4.82	4.59	4.45	4.82
COP					4.22	4.14	4.39	4.22	4.14	4.39
IPLV					7.15	7.12	7.41	7.15	7.12	7.41
SCOP					4.72	4.81	4.94	4.72	4.81	4.94
SEER					6.4	6.54	6.49	6.4	6.54	6.49
Dimensions	Unit	Depth		mm	1,300					
		Height		mm	1,000					
		Width		mm	1,200					
Weight	Operation weight			kg	439	491	561	490	542	612
	Unit			kg	419	469	531	470	520	582
Casing	Colour				Ivory White					
	Material				Galvanized Steel Sheet					
Water heat exchanger	Type				Brazed Plate					
	Water flow rate	Cooling	Nom.	l/s	4.60	5.93	7.92	4.60	5.93	7.92
		Heating	Nom.	l/s	5.27	6.82	8.92	5.27	6.82	8.92
	Water pressure drop	Cooling	Nom.	l/s	19.35	20.00	22.10	19.35	20.00	22.10
		Heating	Nom.	l/s	24.90	25.10	29.70	24.90	25.10	29.70
	Water volume			l	9.45	11.07	14.85	9.45	11.07	14.85
Water heat exchanger - evaporator	Water flow rate	Cooling	Nom.	l/s	4.60	5.93	7.92	4.60	5.93	7.92
		Heating	Nom.	l/s	5.60	7.26	9.55	5.60	7.26	9.55
	Water pressure drop	Cooling	Nom.	l/s	19.35	19.98	22.15	19.35	19.98	22.15
		Heating	Nom.	l/s	27.81	28.00	33.60	27.81	28.00	33.60
Compressor	Quantity				2					
	Type				Scroll					
	Oil	Charged volume		l	6	7.5	9	6	7.5	9
Operation range	Water side	Evaporator	Min.	°CDB	-15					
			Max.	°CDB	30					
		Condenser	Min.	°CDB	20					
			Max.	°CDB	60					
Sound power level	Cooling	Nom.		dBA	81.0	84.2	86.0	75.0	78.2	80.0
	Heating	Nom.		dBA	65.4	68.6	70.4	59.4	62.6	64.4
Sound pressure level	Cooling	Nom.		dBA	65.4	68.6	70.4	59.4	62.6	64.4
Refrigerant	Type				R32					
	GWP				675					
	Charge			kg	6	7.1	9.1	6	7.1	9.1
	Circuits	Quantity			1					
Piping connections	Evaporator water inlet/outlet (OD)				3"					

Electrical specifications					EWWT100Q-XSA1	EWWT125Q-XSA1	EWWT160Q-XSA1	EWWT100Q-XRA1	EWWT125Q-XRA1	EWWT160Q-XRA1
Power supply	Phase				3					
	Frequency			Hz	50					
	Voltage			V	400					
	Voltage range	Min.		%	-10					
		Max.		%	+10					
Unit	Starting current	Max		A	221	345	363	221	345	363
	Running current	Cooling	Nom.	A	36.6	44.2	52.6	36.6	44.2	52.6
		Max		A	62	80	97	62	80	97
	Max unit current for wires sizing			A	68	88	107	68	88	107

Water to water modular heat pumps

- Plug & play solution for easier facility management
- High scalability potential due to its modularity
- Single power supply for the array of modules available as option
- The manifold kit connects modules on the water side making it a plug & play solution
- It has limited environmental impact by using R-32 refrigerant, contributing to Green Building protocols BREEAM and LEED



EWW(H)(L)T-Q

Indoor

Outdoor unit

Modular design

Scroll compressor

Brazed plate heat exchangers

EWHT-Q-XS/XR

Technical specifications					EWHT100Q-XSA1	EWHT100Q-XRA1
Cooling capacity	Nom.			kW	91.68	
Heating capacity	Nom.			kW	106.0	
Capacity control	Method				On/Off	
	Minimum capacity			%	50	
Power input	Cooling	Nom.		kW	21.22	
	Heating	Nom.		kW	26.3	
EER					4.32	
COP					4.03	
IPLV					6.66	
SCOP					4.55	
SEER					5.98	
Dimensions	Unit	Depth		mm	1,300	
		Height		mm	1,000	
		Width		mm	1,200	
Weight	Operation weight			kg	451	502
	Unit			kg	431	482
Casing	Colour				Ivory White	
	Material				Galvanized Steel Sheet	
Water heat exchanger	Type				Brazed Plate	
	Water flow rate	Cooling	Nom.	l/s	4.37	
		Heating	Nom.	l/s	5.07	
	Water pressure drop	Cooling	Nom.	l/s	17.70	
		Heating	Nom.	l/s	23.20	
	Water volume			l	9.45	
Water heat exchanger - evaporator	Water flow rate	Cooling	Nom.	l/s	4.37	
		Heating	Nom.	l/s	5.39	
	Water pressure drop	Cooling	Nom.	l/s	17.70	
		Heating	Nom.	l/s	25.90	
Compressor	Quantity				2	
	Type				Scroll	
	Oil	Charged volume		l	6	
Operation range	Water side	Evaporator	Min.	°CDB	-15	
			Max.	°CDB	30	
		Condenser	Min.	°CDB	20	
			Max.	°CDB	60	
Sound power level	Cooling	Nom.		dBA	81.0	75.0
Sound pressure level	Cooling	Nom.		dBA	65.4	59.4
Refrigerant	Type				R32	
	GWP				675	
	Charge			kg	7	
	Circuits	Quantity			1	
Piping connections	Evaporator water inlet/outlet (OD)				3"	

Electrical specifications					EWHT100Q-XSA1	EWHT100Q-XRA1
Power supply	Phase				3	
	Frequency			Hz	50	
	Voltage			V	400	
	Voltage range	Min.		%	-10	
		Max.		%	+10	
Unit	Starting current	Max		A	221	
	Running current	Cooling	Nom.	A	36.9	
		Max		A	62	
	Max unit current for wires sizing			A	68	

Water to water modular heat pumps

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EWW(H)(L)T-Q

Indoor

Outdoor unit

Modular design

Scroll compressor

Brazed plate heat exchangers

EWLT-Q-XR/XS

Technical specifications						EWLT100Q-XSA1	EWLT125Q-XSA1	EWLT160Q-XSA1	EWLT100Q-XRA1	EWLT125Q-XRA1	EWLT160Q-XRA1
Cooling capacity	Nom.				kW	90.2	116.9	155	90.2	116.9	155
Heating capacity	Nom.				kW	-					
Capacity control	Method					On/Off					
	Minimum capacity				%	50					
Power input	Cooling	Nom.			kW	23.67	31.1	38.55	23.67	31.1	38.55
	Heating	Nom.			kW	-					
EER						3.81	3.76	4.02	3.81	3.76	4.02
COP						-					
IPLV						-					
SCOP						-					
SEER						-					
Dimensions	Unit	Depth			mm	1,300					
		Height			mm	1,000					
		Width			mm	1,200					
Weight	Operation weight				kg	382	428	482	433	479	533
	Unit				kg	372	417	467	423	468	518
Casing	Colour					Ivory White					
	Material					Galvanized Steel Sheet					
Water heat exchanger	Type					Brazed Plate					
	Water flow rate	Cooling	Nom.		l/s	4.3	5.58	7.39	4.3	5.58	7.39
		Heating	Nom.		l/s	-					
	Water pressure drop	Cooling	Nom.		l/s	17.16	17.93	19.55	17.16	17.93	19.55
		Heating	Nom.		l/s	-					
	Water volume				l	9.45	11.07	14.85	9.45	11.07	14.85
Water heat exchanger - evaporator	Water flow rate	Cooling	Nom.		l/s	4.3	5.58	7.39	4.3	5.58	7.39
		Heating	Nom.		l/s	-					
	Water pressure drop	Cooling	Nom.		l/s	17.16	17.93	19.55	17.16	17.93	19.55
		Heating	Nom.		l/s	-					
Compressor	Quantity					2					
	Type					Scroll					
	Oil	Charged volume			l	6	7.5	9	6	7.5	9
Operation range	Water side	Evaporator	Min.		°CDB	-15					
			Max.		°CDB	30					
		Condenser	Min.		°CDB	20					
			Max.		°CDB	60					
Sound power level	Cooling	Nom.			dBA	81.0	84.2	86.0	75.0	78.2	80.0
Sound pressure level	Cooling	Nom.			dBA	65.4	68.6	70.4	59.4	62.6	64.4
Refrigerant	Type					R32					
	GWP					675					
	Charge				kg	0					
	Circuits	Quantity				1					
Piping connections	Evaporator water inlet/outlet (OD)					3"					

Electrical specifications					EWLT100Q-XSA1	EWLT125Q-XSA1	EWLT160Q-XSA1	EWLT100Q-XRA1	EWLT125Q-XRA1	EWLT160Q-XRA1
Power supply	Phase				3					
	Frequency			Hz	50					
	Voltage			V	400					
	Voltage range	Min.		%	-10					
		Max.		%	+10					
Unit	Starting current	Max		A	221	345	363	221	345	363
	Running current	Cooling	Nom.	A	42.1	50	60.7	42.1	50	60.7
		Max		A	62	80	97	62	80	97
	Max unit current for wires sizing			A	68	88	107	68	88	107

Water cooled scroll heat pump

- One of the most compact units on the market: 600mm x 600mm x 600mm
- Low energy consumption
- Low operating sound level
- Low refrigerant volume
- Stainless steel plate heat exchanger
- Extension possible to 183kW
- Easy installation and maintenance
- Remote cooling or heating selection
- Water/water heat pump, with water reversibility
- Standard integrated: water filter, flow switch, air purge, pressure ports
- Advanced μC^{2}SE controller for direct connection to a Modbus based BMS or to a remote user interface



Scroll compressor

EWWQ-KC

EWWQ-KC

Cooling & Heating only				EWWQ-KC	014	025	033	049	064
SEER					4.02	4.23	3.63	4.48	3.88
Space heating	Average climate water outlet 55°C	General	SCOP		3.64	3.63	3.71	3.58	3.87
			Seasonal space heating eff. class		A++				
	Average climate water outlet 35°C	General	SCOP		4.76	4.73	4.52	4.87	4.91
			Seasonal space heating eff. class		A+++		A++	A+++	
Cooling capacity	Nom.			kW	12.09/13.25	19.87/23.89	28.90/30.47	39.35/47.15	57.84/61.00
Heating capacity	Nom.			kW	14.98	27.30	34.74	54.13	69.51
Power input	Cooling	Nom.		kW	3.20/3.74	5.70/6.11	7.30/8.43	11.4/12.03	14.6/16.41
	Heating	Nom.		kW	3.90	7.10	8.70	14.4	17.5
Capacity control	Method				Fixed				
	Minimum capacity			%	100			50	
EER					3.237/4.20	3.254/4.18	3.429/4.16	3.27/4.13	3.524/4.18
COP					3.84	3.83	3.98	3.77	3.98
IPLV					4.68	4.85	4.28	4.97	4.44
Dimensions	Unit	Height		mm	600				
		Width		mm	600				
		Depth		mm	600			1,200	
Weight	Unit			kg	68.0	132	141	257	265
	Operation weight			kg	70/74	129/136	135/145	247/266	258/282
Water heat exchanger - evaporator	Type				Brazed plate				
	Water volume			l	1.47	1.96	2.74	4.47	5.88
	Water flow rate	Cooling	Nom.	l/s	0.63	1.14	1.45	2.25	2.91
		Heating	Nom.	l/s	0.88	1.6	2.07	3.2	4.13
	Water pressure drop	Cooling	Nom.	kPa	9.71/11.7	16.4/28.7	21.3/21.6	20.5/27.6	34.8/44.8
		Heating	Nom.	kPa	23.70	60.20	59.60	56.70	94.60
Compressor	Type				Scroll compressor				
	Quantity				1			2	
Sound power level	Cooling	Nom.		dBA	69		76	72	79
Sound pressure level	Cooling	Nom.		dBA	55.2		62.1	57.6	64.6
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	-10 ~20				
	Condenser	Heating	Min.~Max.	°CDB	20 ~55				
Refrigerant	Type/GWP				R-410A/2,088.0				
	Charge			kg	0.0/1.30	0.0/1.90	0.0/2.70	0.0/4.60	0.0/6.80
	Circuits	Quantity			1			2	
Piping connections	Evaporator water inlet/outlet (OD)				G1"			G1" 1/2	
Space heating	Average climate water outlet 55°C	General	SCOP		3.64	3.63	3.71	3.58	3.87
Space heating	Average climate water outlet 55°C	General	Seasonal space heating eff. class		A++				
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)		0.9				
	Average climate water outlet 35°C	General	Seasonal space heating eff. class		A+++		A++	A+++	
Unit	Starting current	Max		A	57.4	109.3	124.3	124.8	143.6
	Running current	Cooling	Nom.	A	6.0/6.57	9.0/10.5	13.0/14.1	19.0/20.9	26.0/28.1
		Max		A	9.16	15.5/15.53	19.3/19.33	31.0/31.05	38.65/38.7
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/400				

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) | According to EN14825 | Depends on operation mode, refer to installation manual. | For more details, see operation range drawing

Water cooled multi-scroll chiller reversing on refrigerant side, standard efficiency, standard sound

- Single refrigerant circuit (2 scroll compressors) with single evaporator
- Heat pump version with reversibility on refrigerant side available, ideal for geothermal applications
- Compact design to allow easy indoor installation or retrofit operations
- Conceived for stacked installation of two single circuit units to reduce the footprint
- High efficiency and reliable scroll compressor
- High flexibility for a wide variety of applications
- Allows sequencing control (up to 4 units) without any external device
- Stainless steel plate heat exchanger
- Pump (low 100 kPa and high 200 kPa lift) available for evaporator and condenser
- MicroTech 4 controller with superior control logic and easy interface

Scroll compressor



EWHQ-G-SS



MicroTech 4

EWHQ-G-SS

					EWHQ-G-SS	100	120	130	150	160	190	210	240	270	340	400
Cooling capacity	Nom.			kW		87.3	100.0	111	127	141	160	181	208	232	291	352
Heating capacity	Nom.			kW		112	128	144	162	179	205	233	266	299	375	454
Capacity control	Method					Step										
	Minimum capacity			%		50.0	43.0	50.0	44.0	50.0	45.0	50.0	43.0	50.0	40.0	50.0
Power input	Cooling	Nom.		kW		22.4	25.3	28.5	32.0	35.6	41.1	46.0	53.3	59.1	73.7	88.4
	Heating	Nom.		kW		27.0	30.9	35.2	39.3	43.6	50.4	56.6	64.7	72.2	90.3	109
EER						3.90	3.95	3.91	3.96	3.95	3.90	3.93	3.90	3.92	3.95	3.98
COP						4.15	4.16	4.09	4.12	4.11	4.07	4.11	4.10	4.14	4.16	4.18
ESEER						4.70	4.84	4.65	4.86	4.80	4.89	4.86	4.83	4.79	4.90	4.83
IPLV						6.02	6.14	5.66	5.84	5.73	5.84	5.81	5.87	5.71	5.86	5.79
Dimensions	Unit	HeightxWidthxLength		mm		1,066x928x2,432		1,066x928x2,264			1,066x928x2,432				1,186x928x2,432	
Weight	Unit			kg		519	608	728	770	808	838	880	930	941	1,090	1,203
	Operation weight			kg		558	654	782	830	873	908	995	1,019	1,031	1,202	1,334
Water heat exchanger - evaporator	Type					Plate heat exchanger										
	Water flow rate	Cooling	Nom.	l/s		4.2	4.8	5.3	6.1	6.7	7.7	8.7	10.0	11.1	13.9	16.9
		Heating	Nom.	l/s		4.1	4.7	5.2	5.9	6.5	7.4	8.5	9.6	10.9	13.7	16.6
	Water pressure drop	Cooling	Nom.	kPa		44		35	30	29	31	33	31	38	42	43
		Heating	Nom.	kPa		42		33	28	27	29	32	29	37	41	42
Water heat exchanger - condenser	Type					Plate heat exchanger										
	Water volume			l		6	8		10	12	13	15	17		27	34
	Water flow rate	Cooling	Nom.	l/s		5.2	6.0	6.7	7.7	8.5	9.7	10.9	13.7	13.9	17.4	21.1
		Heating	Nom.	l/s		5.4	6.2	7.0	7.8	8.7	9.9	11.2	12.5	14.3	18.0	21.8
	Water pressure drop	Cooling	Nom.	kPa		69		55	49	48	51	54	32	39	66	69
		Heating	Nom.	kPa		73		59	51	50	53	57	33	42	70	73
Compressor	Type					Scroll compressor										
	Quantity					2										
Sound power level	Cooling	Nom.		dBA		80.0	83.0	85.0	87.0	88.0			90.0	92.0	93.0	
Sound pressure level	Cooling	Nom.		dBA		64.0	67.0	69.0	70.0	72.0			74.0	76.0		77.0
Operation range	Evaporator	Cooling	Min.~Max.	°CDB		-8~15										
		Heating	Min.~Max.	°CDB		-8~15										
	Condenser	Cooling	Min.~Max.	°CDB		25~55										
		Heating	Min.~Max.	°CDB		25~55										
Refrigerant	Type/GWP					R-410A/2,087.5										
	Circuits	Quantity				1										
Refrigerant charge				kg/TCO2Eq		9.0/18.8		10.0/20.9		13.0/27.1	11.0/23.0	13.0/27.1	15.0/31.3		19.0/39.7	
Piping connections	Evaporator water inlet/outlet (OD)					1" 1/2		2" 1/2							3"	
	Condenser water inlet/outlet (OD)					1" 1/2		2" 1/2							3"	
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400										
Unit	Starting current	Max		A		204	255	261	308	316	354	368	466	481	640	677
	Running current	Cooling	Nom.	A		43	46	50	56	63	71	78	88	97	123	148
		Max		A		59	66	72	80	88	102	116	131	145	183	221

Water cooled multi-scroll chiller, standard efficiency, standard sound

- Single refrigerant circuit (2 scroll compressors) with single evaporator
- Heat pump version available
- Compact design to allow easy indoor installation or retrofit operations
- Conceived for stacked installation of two single circuit units to reduce the footprint
- High efficiency and reliable scroll compressor
- High flexibility for a wide variety of applications
- Allows sequencing control (up to 4 units) without any external device
- Stainless steel plate heat exchanger
- Pump (low 100 kPa and high 200 kPa lift) available for evaporator and condenser
- MicroTech 4 controller with superior control logic and easy interface

Scroll compressor



EWWQ-G-SS



MicroTech 4

EWWQ-G-SS

Cooling Only					EWWQ-G-SS	090	100	120	130	150	170	190	210	240	300	360
Space cooling	A Condition 35°C	Pdc			kW	93.7	105.6	119	135.9	150	172.1	193.8	220.7	246.1	314.3	370.4
		ηs,c			%	209.08	215.32	233.52	227.68	233.04	233.36	220.32	235.56	231.84	236.64	211.36
SEER						5.427	5.583	6.038	5.892	6.026	6.034	5.708	6.089	5.996	6.116	5.484
Cooling capacity	Nom.				kW	93.7	105.6	119	135.9	150	172.1	193.8	220.7	246.1	314.3	370.4
Power input	Cooling	Nom.			kW	21.3	24	26.9	30.5	33.9	38.9	43.8	50.74	56.1	70.2	84
Capacity control	Method					Fixed										
	Minimum capacity				%	50	43	50	44	50	45	50	43	50	40	50
EER						4.399	4.4	4.424	4.456	4.425	4.424	4.425	4.349	4.387	4.477	4.41
ESEER						5.51	5.52	5.51	5.53	5.51	5.53			5.52		
IPLV						6.71	6.79	6.22	6.36	6.22	6.32	6.3	6.31	6.1	6.28	6.16
Dimensions	Unit	Height			mm	1,066									1,186	
		Width			mm	928										
		Length			mm	2,432			2,264			2,432				
Weight	Unit				kg	516	606	728	762	795	832	871	921	934	1,083	1,181
	Operation weight				kg	554.9	652.4	781.6	821.4	859	901.4	945.9	1,009.6	1,023.2	1,194.7	1,311.1
Water heat exchanger - evaporator	Type					Plate heat exchanger										
	Water volume				l	6	8		10	12	13	15	17		27	34
	Water flow rate	Nom.			l/s	4.5	5.07	5.7	6.51	7.18	8.24	9.28	10.57	11.79	15.06	17.74
	Water pressure drop	Cooling	Nom.		kPa	48.8	49	39.1	33	32.6	34.5	36.7	33.8	41.8	46.8	
Water heat exchanger - condenser	Type					Plate heat exchanger										
	Water volume				l	6	8		10	12	13	15	17		27	34
	Water flow rate	Nom.			l/s	5.52	6.23	7.05	8.04	8.87	10.17	11.43	13.02	14.53	18.46	21.81
	Water pressure drop	Cooling	Nom.		kPa	72	73	60	50		52	56	46	57	69	71
Compressor	Type					Driven vapour compression										
	Quantity					2										
Sound power level	Cooling	Nom.			dBA	80.0	83.0	85.0	87.0	88.0			90.0	92.0	93.0	
Sound pressure level	Cooling	Nom.			dBA	64.0	67.0	69.0	70.0	72.0			74.0	76.0		77.0
Operation range	Evaporator	Cooling	Min.~Max.		°CDB	-10~15										
		Heating	Min.~Max.		°CDB	-10~15										
	Condenser	Cooling	Min.~Max.		°CDB	25~55										
		Heating	Min.~Max.		°CDB	25~55										
Refrigerant	Type/GWP					R-410A/2,087.5										
	Charge				kg	10		11		12		15	16	17	19	20
	Circuits	Quantity				1										
Refrigerant charge					TCO2Eq	20.88		22.96		25.05		31.31	33.40	35.49	39.66	41.75
Piping connections	Evaporator water inlet/outlet (OD)					1" 1/2		2" 1/2							3"	
	Condenser water inlet/outlet (OD)					1" 1/2		2" 1/2							3"	
Unit	Starting current	Max			A	204	255	261	308	316	354	368	466	481	640	677
	Running current	Cooling	Nom.		A	42	45	48	54	61	68	76	86	95	118	143
		Max			A	59	66	72	80	88	102	116	131	145	183	221
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400										

Water cooled multi-scroll chiller, standard efficiency, standard sound

- Dual refrigerant circuit (4 scroll compressors) with single evaporator
- Heat pump version available
- Compact design to allow easy indoor installation or retrofit operations
- High efficiency and reliable scroll compressor
- Stainless steel plate heat exchanger
- High flexibility for a wide variety of applications
- Allows sequencing control (up to 4 units) without any external device
- Pump (low 100 kPa and high 200 kPa lift) available for evaporator and condenser
- MicroTech 4 controller with superior control logic and easy interface



EWWQ-L-SS



MicroTech 4



Scroll compressor

EWWQ-L-SS

Cooling only/Heating only					EWWQ-L-SS	180	205	230	260	290	330	380
Space cooling	A Condition 35°C	Pdc		kW		187.4	215.1	244.3	272.6	303.2	344.5	386.8
		ηs,c		%		211.72	222.72	232.76	230.32	236.76	233.32	224.84
SEER						5.493	5.768	6.019	5.958	6.119	6.033	5.821
Cooling capacity	Nom.			kW		187.4	215.1	244.3	272.6	303.2	344.5	386.8
Power input	Cooling	Nom.		kW		41.7	47.3	53.1	60.2	67.1	77.1	87
Capacity control	Method					Fixed						
	Minimum capacity			%		25	21	25	22	25	23	25
EER						4.494	4.548	4.601	4.528	4.519	4.468	4.446
ESEER						5.54		5.52	5.53	5.54	5.53	5.54
IPLV						6.77	6.84	6.35	6.38	6.31	6.32	6.36
Dimensions	Unit	Height		mm		1,970						
		Width		mm		928						
		Length		mm		2,801						
Weight	Unit			kg		877	1,062	1,285	1,347	1,439	1,498	1,559
	Operation weight			kg		957	1,156	1,401	1,469	1,575	1,641	1,723
Water heat exchanger - evaporator	Type					Plate heat exchanger						
	Water volume			l		35	41	53		65		76
	Water flow rate	Nom.		l/s		8.97	10.29	11.69	13.04	14.5	16.48	18.51
	Water pressure drop	Cooling	Nom.	kPa		28	27.6	22.6	28	25.1	32.2	31.9
Water heat exchanger - condenser	Type					Plate heat exchanger						
	Water volume			l		19	22	29		35		41
	Water flow rate	Nom.		l/s		11.02	12.66	14.4	16.12	17.9	20.38	22.8
	Water pressure drop	Cooling	Nom.	kPa		72	73	61	49	50	51	55
Compressor	Type					Driven vapour compression						
	Quantity					4						
Sound power level	Cooling	Nom.		dBA		83.0	86.0	88.0	90.0	91.0		
Sound pressure level	Cooling	Nom.		dBA		65.0	68.0	70.0	72.0	74.0		73.0
Operation range	Evaporator	Cooling	Min.~Max.	°CDB		-10~15						
		Heating	Min.~Max.	°CDB		-10~15						
	Condenser	Cooling	Min.~Max.	°CDB		25~55						
		Heating	Min.~Max.	°CDB		25~55						
Refrigerant	Type/GWP					R-410A/2,087.5						
	Charge			kg		20		22		24		30
	Circuits	Quantity				2						
Refrigerant charge	kg/TCO2Eq					10.0/20.9		11.0/23.0		12.0/25.1		15.0/31.3
Piping connections	Evaporator water inlet/outlet (OD)					3"						
	Condenser water inlet/outlet (OD)					1" 1/2		2" 1/2				
Unit	Starting current	Max		A		263	320	333	388	403	456	484
	Running current	Cooling	Nom.	A		83	89	96	109	121	137	151
		Max		A		118	131	144	160	175	205	232
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

Performances according to CSS software 10.27

Water to water screw heat pump, standard efficiency, standard sound

- Compact design to allow easy indoor installation or retrofit operations
- Daikin semi-hermetic single screw stepless compressor
- High energy efficiency both at full and part load conditions
- Chilled water temperatures down to -10°C on standard unit
- Optimised for use with R-134a
- MicroTech 4 controller with superior control logic and easy interface



Screw compressor

EWWD-J-SS



Microtech 4

EWWD-J-SS

Cooling & Heating				EWWD-J-SS	120	140	150	180	210	250	280
Space heating	Average climate water outlet 55°C	General	SCOP		4.03	4.11	4.16	4.17	4.17	4.23	3.83
Cooling capacity	Nom.			kW	119.7	145.7	154.3	177.3	207.3	255.3	284.1
Heating capacity	Nom.			kW	144.2	175.4	189.8	217.8	252.2	308.4	347.4
Power input	Cooling	Nom.		kW	28.0	34.0	39.5	45.3	50.4	59.9	70.0
Capacity control	Method				Stepless						
	Minimum capacity			%	25.0						
EER					4.28	4.28	3.91	3.92	4.11	4.26	4.06
COP					5.20		4.84	4.85	5.04	5.17	4.98
IPLV					5.18	5.06		5.05	5.16	5.70	4.88
Dimensions	Unit	Height		mm	1,020						
		Width		mm	913						
		Length		mm	2,684						
Weight	Unit			kg	1,177	1,233	1,334	1,366	1,416	1,600	1,607
	Operation weight			kg	1,211	1,276	1,378	1,415	1,473	1,663	1,675
Water heat exchanger - evaporator	Type				Plate heat exchanger						
	Water volume			l	14	18	14	17	20	26	
	Water flow rate	Cooling	Nom.	l/s	5.7	7.0	7.4	8.5	9.9	12.2	13.6
	Water flow rate	Heating	Nom.	l/s	9.3	11.3	12	13.8	16.1	19.8	22.1
	Water pressure drop	Cooling	Nom.	kPa	15	14	43	40	35	28	34
		Heating	Nom.	kPa	36	34	103	96	85	68	82
Water heat exchanger - condenser	Type				Single pass shell and tube						
	Water volume			l	20		23	25	29		32
	Water flow rate	Cooling	Nom.	l/s	7.1	8.64	9.32	10.7	12.4	15.2	17.0
	Water flow rate	Heating	Nom.	l/s	6.93	8.44	9.13	10.5	12.1	14.8	16.7
	Water pressure drop	Cooling	Nom.	kPa	20	13	11		15	17	27
		Heating	Nom.	kPa	19	12	11		15	16	26
Compressor	Type				Single screw compressor						
	Quantity				1						
Sound power level	Cooling	Nom.		dBA	89						
Sound pressure level	Cooling	Nom.		dBA	79						
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	-10~15						
	Condenser	Cooling	Min.~Max.	°CDB	23~60						
Refrigerant	Type/GWP				R-134a/1,430						
	Circuits	Quantity			1						
Refrigerant charge	Per circuit			kg/TCO2Eq	18.0/25.7	35.0/50.1	34.0/48.6	37.0/52.9		38.0/54.3	
Piping connections				mm	76.2						
Piping connections	Condenser water inlet/outlet (OD)				2" 1/2	4"					
Unit	Starting current	Max		A	153		197			290	
	Running current	Cooling	Nom.	A	48	57	67	74	83	97	109
		Max		A	85	103	114	130	154	178	201
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						

Performances according to CSS software 10.34
Fluid: Water; Fouling factor = 0m 2°C/W
Cooling performances: evaporator 12.0/7.0°C, condenser 30.0/35.0°C; Heating performances (Low temperature application): evaporator 10.0/7.0°C, condenser 30.0/35.0°C.

Water to water screw heat pump, standard efficiency, standard sound

- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- Daikin semi-hermetic single screw compressor
- Direct expansion plate to plate evaporator
- Shell and tube condenser
- Silver efficiency and standard sound
- Upgrade to new MicroTech 4 controller



EWWH-J_EWWS-J



Screw compressor



Microtech 4

EWWH-J-SS

					EWWH-J-SS	090	110	120	130	150	180	200
Space heating	Average climate water outlet 55°C	General	SCOP			3.91	3.92	3.78	3.77	3.80	3.90	3.84
Cooling capacity	Nom.			kW		88.77	107.1	115.1	133.5	150.1	181.6	200.6
Heating capacity	Nom.			kW		107.2	129.2	140.9	162.3	182.2	220.5	245
Power input	Cooling	Nom.		kW		30	36.3	41.7	47.8	54.2	65.7	74.4
Capacity control	Method					Stepless						
	Minimum capacity			%		25						
EER						3.85	3.75	3.72	3.78	3.82	3.67	3.66
COP						4.69	4.57	4.52	4.59	4.67	4.46	4.46
IPLV						4.1	4.11	4.09	4.11	4.12	4.64	4.59
Dimensions	Unit	Height		mm		1,020						
		Width		mm		913						
		Length		mm		2,684						
Weight	Unit			kg		1,177	1,233	1,334	1,366	1,416	1,600	1,607
	Operation weight			kg		1,211	1,276	1,378	1,415	1,473	1,663	1,675
Water heat exchanger - evaporator	Type					Plate heat exchanger						
	Water volume			l		14	18	14	17	20	26	
	Water flow rate	Cooling	Nom.	l/s		4.24	5.11	5.49	6.37	7.16	8.66	9.57
		Heating	Nom.	l/s		6.8	8.3	8.9	10.2	11.8	13.9	15.4
	Water pressure drop	Cooling	Nom.	kPa		10.7	10.9	19.3	19.3	17.8	16.8	20.1
		Heating	Nom.	kPa		24.9	25.9	45.6	44.9	43.7	39.2	47.4
Water heat exchanger - condenser	Type					Single pass shell and tube						
	Water volume			l		20	20	23	25	29		32
	Water flow rate	Cooling	Nom.	l/s		5.18	6.31	6.79	7.84	9.1	10.7	11.9
		Heating	Nom.	l/s		6.77	8.27	8.86	10.2	11.8	13.9	15.4
	Water pressure drop	Cooling	Nom.	kPa		9.1	9.7	8.7	9.1	9.3	12.3	12.1
		Heating	Nom.	kPa		24.9	25.9	45.6	44.9	43.7	39.2	47.4
Compressor	Type					Single screw compressor						
	Quantity					1						
Sound power level	Cooling	Nom.		dBA		89						
Sound pressure level	Cooling	Nom.		dBA		79						
Refrigerant	Type					R-1234(ze)						
	Charge			kg		18	35	34	37		38	
	Circuits	Quantity				1						
Piping connections				mm		76.2						
	Condenser water inlet/outlet			inch		2" 1/2	4					
Unit	Starting current	Max		A		153		197			290	
	Running current	Cooling	Nom.	A		39	44	55	60	65	76	84
		Max		A		75	90	100	114	143	158	178
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

performances according to CSS software 10.34
Fluid: Water; Fouling factor = 0m 2°C/W
Cooling performances: evaporator 12.0/7.0°C, condenser 30.0/35.0°C; Heating performances (Low temperature application): evaporator 10.0/7.0°C, condenser 30.0/35.0°C.

Water to water screw heat pump, standard efficiency, standard sound

- Refrigerant R-513A
- Daikin semi-hermetic single screw compressor
- Direct expansion plate to plate evaporator
- Shell and tube condenser
- Silver efficiency and standard sound
- Upgrade to new MicroTech 4 controller



Screw compressor

EWWH-J_EWWS-J



Microtech 4

EWWS-J-SS

					EWWS-J-SS	120	140	150	180	210	240	270
Space heating	Average climate water outlet 55°C	General	SCOP			3.63	3.54	3.56	3.59	3.62	3.54	3.58
Cooling capacity	Nom.			kW		115.2	136.3	154.7	180.6	207.3	241	272.2
Heating capacity	Nom.			kW		141.7	167.5	191.3	223	256.9	297.	338.2
Power input	Cooling	Nom.		kW		30	36.3	41.7	47.8	54.2	65.7	74.4
Capacity control	Method					Stepless						
	Minimum capacity			%		25						
EER						3.85	3.75	3.72	3.78	3.82	3.67	3.66
COP						4.69	4.57	4.52	4.59	4.67	4.46	
IPLV						4.1	4.11	4.09	4.11	4.12	4.64	4.59
Dimensions	Unit	Height		mm		1,020						
		Width		mm		913						
		Length		mm		2,684						
Weight	Unit			kg		1,177	1,233	1,334	1,366	1,416	1,600	1,607
	Operation weight			kg		1,211	1,276	1,378	1,415	1,473	1,663	1,675
Water heat exchanger - evaporator	Type					Plate heat exchanger						
	Water volume			l		14	18	14	17	20	26	
	Water flow rate	Cooling	Nom.	l/s		5.5	6.5	7.38	8.62	9.89	11.5	13
		Heating	Nom.	l/s		8.8	10.8	12.1	13.8	15.5	19	21.1
	Water pressure drop	Cooling	Nom.	kPa		17.1	16.8	32.8	33.4	31.8	27.9	34.8
		Heating	Nom.	kPa		40.1	41.7	79.4	78.1	71.5	68.9	83.3
Water heat exchanger - condenser	Type					Single pass shell and tube						
	Water volume			l		20	20	23	25	29		32
	Water flow rate	Cooling	Nom.	l/s		6.87	8.38	9.39	10.8	12.1	14.8	16.5
		Heating	Nom.	l/s		6.72	8.2	9.2	10.6	11.9	14.5	16.2
	Water pressure drop	Cooling	Nom.	kPa		15	16.1	15.4	15.9	15.4	22	21.6
		Heating	Nom.	kPa		14.4	15.5	14.8	15.3	14.8	21.2	20.8
Compressor	Type					Single screw compressor						
	Quantity					1						
Sound power level	Cooling	Nom.		dBA		89						
Sound pressure level	Cooling	Nom.		dBA		79						
Refrigerant	Type					R-513A						
	Charge			kg		18	35	34	37		38	
	Circuits	Quantity				1						
Piping connections				mm		76.2						
Piping connections	Condenser water inlet/outlet			inch		2" 1/2	4					
Unit	Starting current	Max		A		154		198			291	
	Running current	Cooling	Nom.	A		50	60	70	78	87	104	117
		Max		A		81	96	108	122	141	164	185
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

performances according to CSS software 10.34
Fluid: Water; Fouling factor = 0m 2°C/W
Cooling performances: evaporator 12.0/7.0°C, condenser 30.0/35.0°C; Heating performances (Low temperature application): evaporator 10.0/7.0°C, condenser 30.0/35.0°C.



The highest peak in chiller technology

The VZ chiller series were developed and manufactured to answer the growing market demands on high efficient chiller series. Thanks to the continuous evolution in components' technology, we are the first to reach the highest peak in chiller efficiency and technology.

EWW(H)(D)(S)-VZ at a glance

Single compressor
440kW - 1,050kW with R134a or R513A
330kW – 790kW with R1234ze

Dual compressor & dual circuit unit
1,170kW - 2,070kW with R134a or R513A
865kW - 1,540kW with R1234ze



Full inverter water cooled chiller

INVERTER

Highest efficiency in the market in its category

TOP CLASS EFFICIENCY

VZ CHILLER SERIES

of everything:
2 compressors,
2 expansion valves,
2 condensers,...



New condenser design with integral oil separator

High efficient flooded heat exchangers

Unique Daikin single screw compressor technology

UNIQUE SOLUTION

Performance monitoring
With MT4, advanced algorithm implementation in the unit controller are possible, such as the **Performance Monitoring** (Option 186). This sensor-less algorithm calculates the unit cooling capacity by using refrigerant pressure and temperature readings. Electrical power is calculated either from compressor VFD power and fan, or directly measured through optional energy meter. As a standard(*), **no extra-hardware is required.**

(*) For TZ-B units an additional sub-cooling temperature sensor is required.

Marketing material

All marketing material can be downloaded from the business portal.
Asset finder > Campaign > VZ chiller series











Why choose EWW(H)(D)(S)-VZ at a glance chiller series?

1 **Top class efficiency**
Thanks to:
- New generation Daikin inverter screw compressors
- New generation high efficiency heat exchangers
- Variable volume ratio technology
- Optimized refrigerant circuit design

2 **Compact unit: 40% footprint reduction**
Thanks to:
- New single pass condenser technology
- New integrated oil separator technology
- Optional knock down panel which reduces the unit width

3 **Application flexibility: widest operating envelope in its range**

4 **Connectivity: Daikin on site cloud platform**

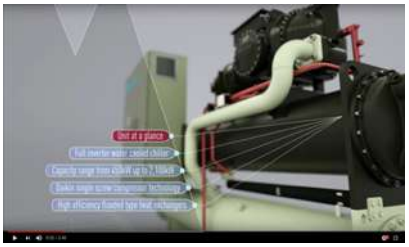
5 **Future readiness: Choose for today's best solution and be ready for the future!**

Product profile

Want to know more about this product?
Have a look at our website and download the product profile:
www.daikineurope.com/vzchillerseries

Supporting tools

Product video



YouTube
www.youtube.com/DaikinEurope

Water cooled screw inverter chiller, standard efficiency, standard sound

- Optimized energy efficiency both at full and part load conditions
- Compact footprint through stacked heat exchanger lay-out
- Heat pump version with reversibility on water side (up to 65°C hot water production)
- Multiple options available: sound proof cabinet, rapid restart, removable electrical panel, etc. to adapt the unit to your specific application and need
- Thanks to a large operating envelope, the unit is suitable for all possible process and comfort applications
- High efficient flooded type heat exchanger allowing maximum unit performances
- One or two truly independent refrigerant circuits for outstanding reliability



EWWD-VZSS

Inverter technology

Screw compressor



Microtech 4

EWWD-VZSS

Cooling only/Heating only				EWWD-VZSS	600	700	760	890	C10	C12	C13	C14	C16	C17	C19	C21
Space cooling	A Condition (35°C - 27/19) Pdc			kW	609.91	704.22	756.52	894.23	1,039.49	1,173.02	1,288.02	1,381.01	1,552.02	1,722.02	1,875.55	2,051.2
	ηs,c			%	340		337.2	331.6	332	337.2	331.6	331.2	320.8	338.8	322	338.8
SEER					8.7		8.63	8.49	8.5	8.63	8.49	8.48	8.22	8.67	8.25	8.67
Cooling capacity	Nom.			kW	610	704	757	894	1,039	1,173	1,288	1,381	1,552	1,722	1,876	2,051
Power input	Cooling	Nom.		kW	110	132	142	162	196	231	252	276	315	339	380	404
Capacity control	Method				Variable											
	Minimum capacity			%	20					10						
EER					5.5	5.31	5.3	5.52	5.29	5.07	5.11	5	4.93	5.08	4.93	5.08
IPLV					9.43	9.36	9.4	9.37	9.4	9.52	9.56	9.57	9.36	9.7	9.38	9.65
Dimensions	Unit	Height		mm	2,123			2,292	2,487	2,296				2,350	2,338	2,498
		Width		mm	1,178	1,179		1,233	1,303	1,484	1,487		1,484	1,580	1,627	1,753
		Length		mm	3,722	3,750		3,690	3,822	4,792				4,508		4,750
Weight	Unit			kg	2,892	2,928	2,941	3,451	4,237	5,570	5,790	5,820	6,220	6,890	7,260	8,260
	Operation weight			kg	2,977	3,033	3,053	3,611	4,488	5,980	6,220	6,290	6,690	7,480	7,830	9,070
Water heat exchanger - evaporator	Type				Flooded shell and tube											
	Water volume			l	88		96	134	156	230		270		320		380
	Water flow rate	Cooling	Nom.	l/s	29.2	33.8	36.3	42.9	49.9	56.2	61.7	66.1	74.4	82.5	89.9	98.2
	Water pressure drop	Cooling	Nom.	kPa	79	106	88	98	102	69	84	70	89	78	92	80
Water heat exchanger - condenser	Type				Shell and tube											
	Water volume			l	81	102		126	217	180	200			270	250	430
	Water flow rate	Cooling	Nom.	l/s	35.3	41	44.1	51.9	60.6	69.1	75.8	81.5	91.9	101	111	120
	Water pressure drop	Cooling	Nom.	kPa	31	29	33	29	33	44	39	45	66	42	55	37
Compressor	Type				Driven vapour compressor											
	Quantity				1					2						
Sound power level	Cooling	Nom.		dBA	101	105		107	106		107		108		110	
Sound pressure level	Cooling	Nom.		dBA	82	86		88	87		88		89		90	
Operation range	Evaporator		Min.~Max.	°CDB	-12~20											
	Condenser		Min.~Max.	°CDB	19~63											
Refrigerant	Type/GWP				R-134a/1,430											
	Charge			kg	125	120	125	145	180	250	260	270	220	305	290	350
	Circuits	Quantity			1					2						
Piping connections				mm	139.7			168.3	219.1							
	Condenser water inlet/outlet (OD)				168.3mm			219.1mm	168.3/168.3 mm					219.1/219.1 mm		
Unit	Running current	Cooling	Nom.	A	171	202	220	249	300	349	379	414	470	508	566	604
	Running current	Max		A	235	280	301	342	417	470	513	559	621	696	758	834
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400											

performances according to CSS software 10.33

Water cooled screw inverter chiller, high efficiency, standard sound

- High energy efficiency both at full and part load conditions
- Compact footprint through stacked heat exchanger lay-out
- Heat pump version with reversibility on water side (up to 65°C hot water production)
- Multiple options available: sound proof cabinet, rapid restart, removable electrical panel, etc. to adapt the unit to your specific application and need
- Thanks to a large operating envelope, the unit is suitable for all possible process and comfort applications
- High efficient flooded type heat exchanger allowing maximum unit performances
- One or two truly independent refrigerant circuits for outstanding reliability



EWWD-VZXS

Inverter technology

Screw compressor



Microtech 4

EWWD-VZXS

Cooling only/Heating only				EWWD-VZXS	450	500	610	710	800	900	C11	C12	C13	C14	C16	C17	C19	C21
Space cooling	A Condition (35°C - 27/19)	Pdc		kW	448.83	500.51	612.77	713.11	793.52	901.21	1,053.02	1,194.03	1,305.01	1,406.98	1,593.03	1,748.03	1,912.01	2,074.02
	ηs,c			%	324.8	329.2	347.2	350	345.6	337.6	344.4	347.6	342.4	348	347.2	347.6	337.2	344.4
SEER					8.32	8.43	8.88	8.95	8.84	8.64	8.81	8.89	8.76	8.9	8.88	8.89	8.63	8.81
Cooling capacity	Nom.			kW	449	501	613	713	794	901	1,053	1,194	1,305	1,407	1,593	1,748	1,912	2,074
Power input	Cooling	Nom.		kW	81.2	89.7	108	128	146	159	192	221	244	262	296	329	365	394
Capacity control	Method				Variable													
	Minimum capacity			%	20							10						
EER					5.53	5.58	5.64	5.54	5.43	5.67	5.46	5.38	5.34	5.36	5.38	5.31	5.23	5.25
IPLV					9.42	9.59	9.52	9.66	9.64	9.48	9.58	9.66	9.67	9.76	9.74	9.82	9.68	9.7
Dimensions	Unit	Height		mm	2,135		2,123	2,235		2,487		2,296		2,301	2,350	2,500	2,469	2,493
		Width		mm	1,178		1,179	1,189		1,303		1,484	1,639	1,579	1,580	1,610	1,704	1,769
		Length		mm	3,722		3,750	3,690		3,822		4,792		4,508		4,750	4,874	
Weight	Unit			kg	2,968	2,911	3,102	3,470	3,451	4,257	4,552	5,860	6,240	6,520	6,920	7,530	7,790	8,670
	Operation weight			kg	3,098	3,006	3,274	3,648	3,611	4,518	4,860	6,370	6,760	7,130	7,530	8,300	8,560	9,630
Water heat exchanger - evaporator	Type				Flooded shell and tube													
	Water volume			l	70	88	136	134		168	199	270		320		380	480	
	Water flow rate	Cooling	Nom.	l/s	21.5	24	29.3	34.1	38	43.2	50.4	57.1	62.5	67.3	76.3	83.6	91.4	99.2
	Water pressure drop	Cooling	Nom.	kPa	89	63	59	63	55	67	59	52	62	52	67	58	49	58
Water heat exchanger - condenser	Type				Shell and tube													
	Water volume			l	81	92	126	145	126	217	241	240	250	290		390	290	480
	Water flow rate	Cooling	Nom.	l/s	26.4	29.4	35.3	41.2	46.1	52	61	69.8	76.3	82.2	93.2	102	112	121
	Water pressure drop	Cooling	Nom.	kPa	31	28	22	20	24	25		28		21	32	27	37	28
Compressor	Type				Driven vapour compressor													
	Quantity				1							2						
Sound power level	Cooling	Nom.		dBA	97	99	101	105			107	106		107		108	109	110
Sound pressure level	Cooling	Nom.		dBA	78	80	82	86			88	87		88		89		90
Operation range	Evaporator		Min.~Max.	°CDB	-12~20													
	Condenser		Min.~Max.	°CDB	19~65													
Refrigerant	Type/GWP				R-134a/1,430													
	Charge			kg	110		125	140	160	200	185	270	260	230	290	290	320	370
	Circuits	Quantity			1							2						
Piping connections				mm	139.7			168.3				219.1					273	
	Condenser water inlet/outlet (OD)				168.3mm			219.1mm				168.3/ 219.1 mm		219.1/219.1 mm				
Unit	Running current	Cooling	Nom.	A	126	140	171	201	229	249	299	340	372	400	450	498	554	596
	Running current	Max		A	172	191	235	280	316	342	417	470	513	559	621	696	758	834
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400													

performances according to CSS software 10.33

Water cooled screw inverter chiller, premium efficiency, standard sound

- Premium energy efficiency both at full and part load conditions
- Compact footprint through stacked heat exchanger lay-out
- Heat pump version with reversibility on water side (up to 65°C hot water production)
- Multiple options available: sound proof cabinet, rapid restart, removable electrical panel, etc. to adapt the unit to your specific application and need
- Thanks to a large operating envelope, the unit is suitable for all possible process and comfort applications
- High efficient flooded type heat exchanger allowing maximum unit performances
- One or two truly independent refrigerant circuits for outstanding reliability



EWWD-VZ

Inverter technology

Screw compressor



Microtech 4

EWWD-VZPS

Cooling only/ Heating only				EWWD-VZPS	505	715	910	C12	C16	C18
Space cooling	A Condition (35°C - 27/19) Pdc			kW	505.02	717.71	908.11	1,201.02	1,604.03	1,757.01
	ηs,c			%	339.6	355.2	344.4	353.6	354	350
SEER					8.69	9.08	8.81	9.04	9.05	8.95
Cooling capacity	Nom.			kW	505	718	908	1,201	1,604	1,757
Power input	Cooling	Nom.		kW	85.1	124	153	218	291	326
Capacity control	Method				Variable					
	Minimum capacity			%	20			10		
EER					5.93	5.77	5.91	5.49	5.5	5.39
IPLV					9.61	9.68	9.57	9.79	9.82	9.92
Dimensions	Unit	Height		mm	2,108	2,430	2,487	2,302	2,500	2,493
		Width		mm	1,179	1,287	1,303	1,579	1,610	1,769
		Length		mm	3,750	3,822		4,508	4,750	4,874
Weight	Unit			kg	3,247	4,082	4,346	6,310	7,530	8,250
	Operation weight			kg	3,375	4,349	4,660	6,900	8,300	9,200
Water heat exchanger - evaporator	Type				Flooded shell and tube					
	Water volume			l	96	168	199	320	380	480
	Water flow rate	Cooling	Nom.	l/s	24.2	34.3	43.4	57.4	76.7	84
	Water pressure drop	Cooling	Nom.	kPa	55	42	44	38	49	41
Water heat exchanger - condenser	Type				Shell and tube					
	Water volume			l	126	217	241	270	390	470
	Water flow rate	Cooling	Nom.	l/s	29.4	41.3	52.1	69.9	93.4	102
	Water pressure drop	Cooling	Nom.	kPa	16	17	19	21		28
Compressor	Type				Driven vapour compressor					
	Quantity				1			2		
Sound power level	Cooling	Nom.		dBA	99	105		106	107	109
Sound pressure level	Cooling	Nom.		dBA	80	86		87	88	89
Operation range	Evaporator		Min.~Max.	°CDB	-12~20					
	Condenser		Min.~Max.	°CDB	19~65					
Refrigerant	Type/GWP				R-134a/1,430					
	Charge			kg	120	195	185	305	320	350
	Circuits	Quantity			1			2		
Piping connections				mm	139.7	219.1				273
	Condenser water inlet/outlet (OD)				219.1mm			219.1/219.1 mm		
Unit	Running current	Cooling	Nom.	A	138	200	247	338	447	497
	Running current	Max		A	191	280	342	470	621	696
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					

performances according to CSS software 10.33

Water cooled screw inverter chiller, standard efficiency, standard sound

- Optimized energy efficiency both at full and part load conditions
- Compact footprint through stacked heat exchanger lay-out
- Heat pump version with reversibility on water side (up to 75°C hot water production)
- Multiple options available: sound proof cabinet, rapid restart, removable electrical panel, etc. to adapt the unit to your specific application and need
- Thanks to a large operating envelope, the unit is suitable for all possible process and comfort applications
- High efficient flooded type heat exchanger allowing maximum unit performances
- One or two truly independent refrigerant circuits for outstanding reliability



EWWH-VZSS

Inverter technology

Screw compressor



Microtech 4

EWWH-VZSS

Cooling only/Heating only				EWWH-VZSS	445	515	550	660	770	860	940	C10	C12	C13	C14	C15
Space cooling	A Condition (35°C - 27/19) Pdc			kW	443	512	548.51	657.51	767.8	865.2	940.6	1,011.7	1,142.46	1,271.38	1,396.11	1,524.83
	ηs,c			%	336.4	338.4	336.8	348.4	345.2	318.4	327.2	339.6	331.2	340	345.6	353.2
SEER					8.61	8.66	8.62	8.91	8.83	8.16	8.38	8.69	8.48	8.7	8.84	9.03
Cooling capacity	Nom.			kW	443	512	549	658	768	865	941	1,012	1,142	1,271	1,396	1,525
Power input	Cooling	Nom.		kW	82.8	98.1	107	123	149	172	188	205	235	254	282	302
Capacity control	Method				Variable											
	Minimum capacity			%	20					10						
EER					5.35	5.22	5.15	5.34	5.14	5.02	5	4.93	4.87	5.01	4.95	5.04
IPLV					9.25		9.24	9.48	9.32	8.94	9.08	9.13	9.14	9.3	9.13	9.34
Dimensions	Unit	Height		mm	2,123			2,292	2,487	2,296				2,350	2,338	2,498
		Width		mm	1,178	1,179		1,233	1,303	1,484	1,487		1,484	1,580	1,627	1,753
		Length		mm	3,722	3,750		3,690	3,822	4,792				4,508		4,750
Weight	Unit			kg	2,892	2,928	2,941	3,451	4,237	5,570	5,790	5,820	6,220	6,890	7,260	8,260
	Operation weight			kg	2,977	3,033	3,053	3,611	4,488	5,980	6,220	6,290	6,690	7,480	7,830	9,070
Water heat exchanger - evaporator	Type				Flooded shell and tube											
	Water volume			l	88		96	134	156	230		270		320		380
	Water flow rate	Cooling	Nom.	l/s	21.2	24.5	26.2	31.5	36.8	41.4	45	48.4	54.6	60.8	66.8	72.9
	Water pressure drop	Cooling	Nom.	kPa	46	61	52	59	64	39	46	39	50	44	53	45
Water heat exchanger - condenser	Type				Shell and tube											
	Water volume			l	81	102		126	217	180	200			270	250	430
	Water flow rate	Cooling	Nom.	l/s	25.5	29.6	31.8	38.1	44.8	50.3	54.8	59	66.8	74	81.4	88.7
	Water pressure drop	Cooling	Nom.	kPa	19	17	20	19	17	25	22	25	38	25	32	18
Compressor	Type				Driven vapour compression											
	Quantity				1					2						
Sound power level	Cooling	Nom.		dBA	101	105		107	106		107			108		110
Sound pressure level	Cooling	Nom.		dBA	82	86		88	87		88			89		90
Refrigerant	Type/GWP				R-1234(ze)/7											
	Charge			kg	125	124	105	145	190	210	230	250	220	280		320
	Circuits	Quantity			1					2						
Piping connections				mm	139.7			168.3	219.1							
	Condenser water inlet/outlet (OD)				168.3mm			219.1mm		168.3/168.3 mm				219.1/219.1 mm		
Unit	Running current	Cooling	Nom.	A	131.0	153.0	167.0	188.0	227.0	264.0	287.0	312.0	353.0	385.0	426.0	458.0
		Max		A	183	226	235	268	324	374	402	451	493	549	591	647
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400											

Performances according to CSS software 10.33

Water cooled screw inverter chiller, high efficiency, standard sound

- High energy efficiency both at full and part load conditions
- Compact footprint through stacked heat exchanger lay-out
- Heat pump version with reversibility on water side (up to 75°C hot water production)
- Multiple options available: sound proof cabinet, rapid restart, removable electrical panel, etc. to adapt the unit to your specific application and need
- Thanks to a large operating envelope, the unit is suitable for all possible process and comfort applications
- High efficient flooded type heat exchanger allowing maximum unit performances
- One or two truly independent refrigerant circuits for outstanding reliability



EWWH-VZXS

Inverter technology

Screw compressor



Microtech 4

EWWH-VZXS

Cooling only/Heating only				EWWH-VZXS	335	365	450	525	580	670	800	875	950	C11	C12	C13	C14	C15
Space cooling	A Condition (35°C - 27/19) Pdc			kW	329.01	364.52	448	520.61	579.19	665.41	788.2	877.36	952.01	1,028.81	1,169.3	1,288.48	1,421.75	1,540.03
	ηs,c			%	296	307.2	343.6	347.2	343.2	356	354.4	326	334	346.8			358	356.8
SEER					7.6	7.88	8.79	8.88	8.78	9.1	9.06	8.35	8.55	8.87			9.15	9.12
Cooling capacity	Nom.			kW	329	365	448	521	579	665	788	877	952	1,029	1,169	1,288	1,422	1,540
Power input	Cooling	Nom.		kW	60.5	66.6	81	96	109	121	147	168	185	198	224	248	276	298
Capacity control	Method				Variable													
	Minimum capacity			%	20							10						
EER					5.44	5.48	5.53	5.42	5.29	5.49	5.37	5.23	5.16	5.19	5.22	5.19	5.16	
IPLV					8.51	8.79	9.46	9.51	9.47	9.63	9.65	9.19	9.27	9.46	9.37	9.52	9.23	9.5
Dimensions	Unit	Height		mm	2,135		2,123	2,235		2,487		2,296		2,301	2,350	2,500	2,469	2,493
		Width		mm	1,178		1,179	1,189		1,303		1,484	1,639	1,579	1,580	1,610	1,704	1,769
		Length		mm	3,722		3,750	3,690		3,822		4,792		4,508		4,750	4,874	
Weight	Unit			kg	2,968	2,911	3,102	3,470	3,451	4,257	4,552	5,860	6,240	6,520	6,920	7,530	7,790	8,670
	Operation weight			kg	3,098	3,006	3,274	3,648	3,611	4,518	4,860	6,370	6,760	7,130	7,530	8,300	8,560	9,630
Water heat exchanger - evaporator	Type				Flooded shell and tube													
	Water volume			l	70	88	136	134		168	199	270		320		380	480	
	Water flow rate	Cooling	Nom.	l/s	15.8	17.5	21.4	24.9	27.7	31.8	37.7	41.9	45.5	49.1	55.9	61.6	67.9	73.6
	Water pressure drop	Cooling	Nom.	kPa	54	38	35	37	31	39	36	29	34	28	37	32	28	33
Water heat exchanger - condenser	Water volume			l	81	92	126	145	126	217	241	240	250	290		390	290	480
	Water flow rate	Cooling	Nom.	l/s	18.9	20.9	25.7	30	33.5	38.4	45.7	50.7	55.1	59.6	67.6	74.6	82.3	89.3
	Water pressure drop	Cooling	Nom.	kPa	19	16	13	12	15	13	16			13	19	16	23	16
Compressor	Type				Driven vapour compression													
	Quantity				1							2						
Sound power level	Cooling	Nom.		dBA	97	99	101	105			107	106		107		108	109	110
Sound pressure level	Cooling	Nom.		dBA	78	80	82	86			88	87		88		89		90
Refrigerant	Type/GWP				R-1234(ze)/7													
	Charge			kg	124	110	125	140	130	200	185	250	220	270	255	305	320	346
	Circuits	Quantity			1							2						
Piping connections				mm	139.7			168.3				219.1					273	
	Condenser water inlet/outlet (OD)				168.3mm			219.1mm				168.3/ 219.1 mm		219.1/219.1 mm				
Unit	Running current	Cooling	Nom.	A	96.0	106.0	129.0	151.0	173.0	187.0	226.0	259.0	284.0	304.0	341.0	379.0	421.0	454.0
		Max		A	134	149	183	226	247	268	324	374	402	451	493	549	591	647
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400													

Performances according to CSS software 10.33

Water cooled screw inverter chiller, premium efficiency, standard sound

- Premium energy efficiency both at full and part load conditions
- Compact footprint through stacked heat exchanger lay-out
- Heat pump version with reversibility on water side (up to 75°C hot water production)
- Multiple options available: sound proof cabinet, rapid restart, removable electrical panel, etc. to adapt the unit to your specific application and need
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- One or two truly independent refrigerant circuits for outstanding reliability



EWWH-VZPS

Inverter technology

Screw compressor



Microtech 4

EWWH-VZPS

Cooling only/Heating only				EWWH-VZPS	370	530	680	880	C12	C13
Space cooling	A Condition (35°C - 27/19) Pdc			kW	369.3	525.1	677.11	883.79	1,180.43	1,295.36
	ηs,c			%	316.8	352.8	363.6	334.4	352.4	348.8
SEER					8.12	9.02	9.29	8.56	9.01	8.92
Cooling capacity	Nom.			kW	369	525	677	884	1,180	1,295
Power input	Cooling	Nom.		kW	64.7	94.9	119	166	221	247
Capacity control	Method				Variable					
	Minimum capacity			%	20				10	
EER					5.71	5.53	5.67	5.34	5.35	5.25
IPLV					9.13	9.68	9.96	9.37	9.56	9.61
Dimensions	Unit	Height		mm	2,108	2,430	2,487	2,302	2,500	2,493
		Width		mm	1,179	1,287	1,303	1,579	1,610	1,769
		Length		mm	3,750	3,822		4,508	4,750	4,874
Weight	Unit			kg	3,247	4,082	4,346	6,310	7,530	8,250
	Operation weight			kg	3,375	4,349	4,660	6,900	8,300	9,200
Water heat exchanger - evaporator	Type				Flooded shell and tube					
	Water volume			l	96	168	199	320	380	480
	Water flow rate	Cooling	Nom.	l/s	17.7	25.1	32.3	42.2	56.4	61.9
	Water pressure drop	Cooling	Nom.	kPa	32	25	27	20	26	23
Water heat exchanger - condenser	Type				Shell and tube					
	Water volume			l	126	217	241	270	390	470
	Water flow rate	Cooling	Nom.	l/s	21.1	30.1	38.9	50.9	68	74.9
	Water pressure drop	Cooling	Nom.	kPa	9		12	13	12	16
Compressor	Type				Driven vapour compression					
	Quantity				1				2	
Sound power level	Cooling	Nom.		dBA	99	105		106	107	109
Sound pressure level	Cooling	Nom.		dBA	80	86		87	88	89
Refrigerant	Type/GWP				R-1234(ze)/7					
	Charge			kg	120	190	185	305	288	350
	Circuits	Quantity			1				2	
Piping connections				mm	139.7	219.1				273
	Condenser water inlet/outlet (OD)				219.1mm				219.1/219.1 mm	
Unit	Running current	Cooling	Nom.	A	104.0	150.0	185.0	257.0	338.0	378.0
		Max		A	149	226	268	374	493	549
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					

Performances according to CSS software 10.33

Water to water screw inverter chiller, standard efficiency, standard sound

- Optimized energy efficiency both at full and part load conditions
- Compact footprint through stacked heat exchanger lay-out
- Heat pump version with reversibility on water side (up to 60°C hot water production)
- Multiple options available: sound proof cabinet, rapid restart, removable electrical panel, etc. to adapt the unit to your specific application and need
- Thanks to a large operating envelope, the unit is suitable for all possible process and comfort applications
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- One or two truly independent refrigerant circuits for outstanding reliability



EWWS-VZ

EWWS-VZSS

Cooling only/Heating only				EWWS-VZSS	600	700	740	880	C10	C12	C13	C14	C15	C17	C18	C20
Space cooling	A Condition (35°C - 27/19)	Pdc	kW		599.51	693.51	743.53	879.64	1,020.09	1,148.76	1,263.41	1,351.54	1,514.87	1,689.58	1,831.98	2,013.41
	ηs,c		%		316	314.4	313.2	320	313.2	321.2	314.8	312	297.6	313.6	304	318.4
SEER					8.1	8.06	8.03	8.2	8.03	8.23	8.07	8	7.64	8.04	7.8	8.16
Cooling capacity	Nom.		kW		600	694	744	880	1,020	1,149	1,263	1,352	1,515	1,690	1,832	2,013
Power input	Cooling	Nom.	kW		120.1	143.3	154.7	175.2	212.7	251.8	273.9	301	343	367.4	413.5	437.2
Capacity control	Method				Variable											
	Minimum capacity		%		20					10						
EER					4.99	4.84	4.81	5.02	4.8	4.56	4.61	4.49	4.42	4.6	4.43	4.61
IPLV					9.02	9.15		8.84	8.88	9.06	9.31	9.23	8.9	9.18	8.88	9.05
Dimensions	Unit	Height	mm		2,123			2,292	2,487	2,296				2,350	2,338	2,498
		Width	mm		1,178	1,179		1,233	1,303	1,484	1,487		1,484	1,580	1,627	1,753
		Depth	mm		3,722	3,750		3,690	3,822	4,792				4,508		4,750
Weight	Unit		kg		2,892	2,928	2,941	3,451	4,237	5,570	5,790	5,820	6,220	6,890	7,260	8,260
	Operation weight		kg		2,977	3,033	3,053	3,611	4,488	5,980	6,220	6,290	6,690	7,480	7,830	9,070
Water heat exchanger - evaporator	Type				Flooded shell and tube											
	Water volume		l		88		96	134	156	230		270		320		380
	Water flow rate	Cooling Nom.	l/s		28.7	33.3	35.7	42.2	48.9	55	60.6	64.7	72.6	80.9	87.8	96.4
	Water pressure drop	Cooling Nom.	kPa		80	108	89	100	103	69	85	70	89	79	92	81
Water heat exchanger - condenser	Type				Flooded Shell & Tube											
	Water volume		l		81	102		126	217	180	200			270	250	430
	Water flow rate	Cooling Nom.	l/s		34.5	40.1	43.2	50.6	59.3	67.1	73.7	79.2	89	98.7	107	117
	Water pressure drop	Cooling Nom.	kPa		31	29	32	29	33	43	38	44	64	41	53	36
Compressor	Type				Driven vapour compressor											
	Quantity				1					2						
Sound power level	Cooling	Nom.	dBA		101	105			107	106		107		108		110
Sound pressure level	Cooling	Nom.	dBA		82	86			88	87		88		89		90
Refrigerant	Type/GWP				R-513A/631											
	Charge		kg		100	110		170	180	250	260	270	290	295	320	350
	Circuits	Quantity			1					2						
Piping connections			mm		139.7			168.3	219.1							
			mm		168.3			219.1		168.3				219.1		

Performances according to CSS software 10.33

INVERTER

Water to water screw inverter chiller, high efficiency, standard sound

- High energy efficiency both at full and part load conditions
- Compact footprint through stacked heat exchanger lay-out
- Heat pump version with reversibility on water side (up to 62°C hot water production)
- Multiple options available: sound proof cabinet, rapid restart, removable electrical panel, etc. to adapt the unit to your specific application and need
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EWWS-VZ

EWWS-VZXS

Cooling only/Heating only				EWWS-VZXS	450	490	600	700	780	890	C10	C12	C13	C14	C16	C17	C19	C20
Space cooling	A Condition (35°C - 27/19)	Pdc	kW		441.23	493.3	605.32	704.66	783.15	888.89	1,038.67	1,178.53	1,287.26	1,390.42	1,570.18	1,725.3	1,876.17	2,045.66
	ηs,c		%		306.4	313.6	328.4	329.2	328	328.4	328.8	331.2	326.4	329.2	331.2	326.4	323.2	326.8
SEER					7.86	8.04	8.41	8.43	8.4	8.41	8.42	8.48	8.36	8.43	8.48	8.36	8.28	8.37
Cooling capacity	Nom.		kW		441	493	605	705	783	889	1,039	1,179	1,287	1,390	1,570	1,725	1,876	2,046
Power input	Cooling	Nom.	kW		87.8	96.8	116.8	138.6	157.7	171.3	207.8	239.2	263.6	282.6	319.6	354.3	396.6	425.5
Capacity control	Method				Variable													
	Minimum capacity		%		20							10						
EER					5.02	5.1	5.18	5.09	4.97	5.19	5	4.93	4.88	4.92	4.91	4.87	4.73	4.81
IPLV					8.87	9.01	9.29	9.43	9.39	8.96	9.27	9.24	9.48	9.43	9.39	9.29	9.15	
Dimensions	Unit	Height	mm		2,135		2,123	2,235		2,487		2,296		2,301	2,350	2,500	2,469	2,493
		Width	mm		1,178		1,179	1,189		1,303		1,484	1,639	1,579	1,580	1,610	1,704	1,769
		Depth	mm		3,722		3,750	3,690		3,822		4,792		4,508		4,750	4,874	
Weight	Unit		kg		2,968	2,911	3,102	3,470	3,451	4,257	4,552	5,860	6,240	6,520	6,920	7,530	7,790	8,670
	Operation weight		kg		3,098	3,006	3,274	3,648	3,611	4,518	4,860	6,370	6,760	7,130	7,530	8,300	8,560	9,630
Water heat exchanger - evaporator	Type				Flooded shell and tube													
	Water volume		l		70	88	136	134		168	199	270		320		380	480	
	Water flow rate	Cooling Nom.	l/s		21.2	23.6	29	33.7	37.5	42.6	49.7	56.4	61.6	66.5	75.2	82.6	89.7	97.9
	Water pressure drop	Cooling Nom.	kPa		91	64	61	65	57	69	60	53	64	53	68	59	50	60
Water heat exchanger - condenser	Type				Flooded Shell & Tube													
	Water volume		l		81	92	126	145	126	217	241	240	250	290		390	290	480
	Water flow rate	Cooling Nom.	l/s		25.8	28.7	34.5	40.4	45.1	50.8	59.8	68	74.4	80.2	90.7	99.8	108	118
	Water pressure drop	Cooling Nom.	kPa		31	27	22	20	24	25		28		21	32	27	36	27
Compressor	Type				Driven vapour compressor													
	Quantity				1							2						
Sound power level	Cooling	Nom.	dBA		97	99	101	105			107	106		107		108	109	110
Sound pressure level	Cooling	Nom.	dBA		78	80	82	86			88	87		88		89		90
Refrigerant	Type/GWP				R-513A/631													
	Charge		kg		95		130	110	170	210	185	250	260	290		320		350
	Circuits	Quantity			1							2						
Piping connections			mm		139.7			168.3				219.1					273	
			mm		168.3			219.1				168.3/219.1		219.1				

Performances according to CSS software 10.33

Water to water screw inverter chiller, premium efficiency, standard sound

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EWWS-VZ

Inverter technology

Screw compressor

EWWS-VZPS

Cooling only/Heating only				EWWS-VZPS	500	710	900	C12	C16	C17
Space cooling	A Condition (35°C - 27/19)	Pdc	kW		500.08	710.08	898.24	1,187.65	1,585.78	1,735.47
	ηs,c		%		321.6	334	335.2	336.4		330
SEER					8.24	8.55	8.58	8.61		8.45
Cooling capacity	Nom.		kW		500	710	898	1,188	1,586	1,735
Power input	Cooling	Nom.	kW		91.3	133.8	165.1	235.4	313.7	350.7
Capacity control	Method				Variable					
	Minimum capacity		%		20			10		
EER					5.48	5.31	5.44	5.05		4.95
IPLV					9.13	9.48	9.17	9.36	9.48	9.4
Dimensions	Unit	Height	mm		2,108	2,430	2,487	2,302	2,500	2,493
		Width	mm		1,179	1,287	1,303	1,579	1,610	1,769
		Depth	mm		3,750	3,822		4,508	4,750	4,874
Weight	Unit		kg		3,247	4,082	4,346	6,310	7,530	8,250
	Operation weight		kg		3,375	4,349	4,660	6,900	8,300	9,200
Water heat exchanger - evaporator	Type				Flooded shell and tube					
	Water volume		l		96	168	199	320	380	480
	Water flow rate	Cooling Nom.	l/s		23.9	34	43	56.8	75.8	83
	Water pressure drop	Cooling Nom.	kPa		57	44	46	39	50	42
Water heat exchanger - condenser	Type				Flooded Shell & Tube					
	Water volume		l		126	217	241	270	390	470
	Water flow rate	Cooling Nom.	l/s		28.9	40.6	51.1	68.3	91.1	100
	Water pressure drop	Cooling Nom.	kPa		16	17	19	21		27
Compressor	Type				Driven vapour compressor					
	Quantity				1			2		
Sound power level	Cooling	Nom.	dBA		99	105		106	107	109
Sound pressure level	Cooling	Nom.	dBA		80	86		87	88	89
Refrigerant	Type/GWP				R-513A/631					
	Charge		kg		130	180		190	320	350
	Circuits	Quantity			1			2		
Piping connections			mm		139.7	219.1				273
			mm		219.1					

Performances according to CSS software 10.33



Water cooled scroll heat pump

- One of the most compact units on the market: 600mm x 600mm x 600mm
- Low energy consumption
- Low operating sound level
- Easy installation and maintenance
- Stainless steel plate heat exchanger
- Low refrigerant volume
- Standard integrated: pressure ports, flow switch, filter, shut-off valves and air purge
- Advanced µC²SE controller for direct connection to a Modbus based BMS or to a remote user interface



EWLQ-KC_EWWQ-KC_hydracube_modulo_03

Scroll compressor

EWLQ-KC

Cooling Only				EWLQ-KC	014	025	033	049	064
Cooling capacity	Nom.			kW	12.09	19.87	28.90	39.35	57.84
Power input	Cooling	Nom.		kW	3.74	6.11	8.43	12.03	16.41
Capacity control	Method				Fixed				
	Minimum capacity			%	100			50	
EER					3.237	3.254	3.429	3.27	3.524
Dimensions	Unit	Height		mm	600				
		Width		mm	600				
		Depth		mm	600			1,200	
Weight	Unit			kg	62	124	130	238	249
	Operation weight			kg	70	129	135	247	258
Water heat exchanger - evaporator	Type				Brazed plate				
	Water volume			l	1.47	1.96	2.74	4.47	5.88
	Water flow rate	Cooling	Nom.	l/s	0.576	0.947	1.378	1.876	2.757
	Water pressure drop	Cooling	Nom.	kPa	9.71	16.4	21.6	20.5	34.8
Compressor	Type				Scroll compressor				
	Quantity				1			2	
Sound power level	Cooling	Nom.		dBA	69.0		76.0	72.0	79.0
Sound pressure level	Cooling	Nom.		dBA	55.2		62.1	57.6	64.6
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	-10 ~20				
	Condenser	Heating	Min.~Max.	°CDB	20 ~55				
Refrigerant	Type/GWP				R-410A/2,088.0				
	Charge			kg	0.0				
	Circuits	Quantity			1			2	
Piping connections	Evaporator water inlet/outlet (OD)				G1"			G1" 1/2	
Unit	Starting current	Max		A	57.4	109.3	124.3	124.8	143.6
	Running current	Cooling	Nom.	A	6.57	10.5	14.1	20.9	28.1
		Max		A	9.16	15.5	19.3	31.0	38.7
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/400				

Condenserless multi-scroll chiller, standard efficiency, standard sound

- Single refrigerant circuit (2 scroll compressors) with single evaporator
- For chilled water production, to be combined with a remote condensing unit
- Compact design to allow easy indoor installation or retrofit operations
- Conceived for stacked installation of two single circuit units to reduce the footprint
- High efficiency and reliable scroll compressor
- Stainless steel plate heat exchanger



EWLQ-G-SS

Microtech 4

EWLQ-G-SS

Cooling only				EWLQ-G-SS	090	100	120	130	150	170	190	210	240	300	360
Cooling capacity	Nom.			kW	86.5	98.4	110	125	139	160	181	206	231	290	346
Power input	Cooling	Nom.		kW	22.4	25.8	29.2	33.0	36.8	42.0	47.0	54.2	59.9	75.6	91.8
Capacity control	Method				Step										
	Minimum capacity			%	50.0	43.0	50.0	44.0	50.0	45.0	50.0	43.0	50.0	40.0	50.0
EER					3.86	3.81	3.78	3.79		3.80	3.86	3.80	3.85	3.84	3.77
Dimensions	Unit	Height		mm	1,066									1,186	
		Width		mm	928										
		Length		mm	2,743										
Weight	Unit			kg	494	578	686	714	742	773	807	838	852	967	1,046
	Operation weight			kg	525	615	729	760	791	826	863	901	916	1,044	1,134
Water heat exchanger - evaporator	Type				Plate heat exchanger										
	Water volume			l	6	8		10	12	13	15	17		27	34
	Water flow rate	Nom.		l/s	4.2	4.7	5.3	6.0	6.7	7.7	8.7	9.8	11.1	13.9	16.6
	Water pressure drop	Cooling	Nom.	kPa	44		35	29		31	33	30	38	41	
Compressor	Type				Scroll compressor										
	Quantity				2										
Sound power level	Cooling	Nom.		dBA	80.0	83.0	85.0	87.0	88.0			90.0	92.0	93.0	
Sound pressure level	Cooling	Nom.		dBA	64.0	67.0	69.0	70.0	72.0			74.0	76.0		77.0
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	-10~15										
	Condenser	Cooling	Min.~Max.	°CDB	30~60										
Refrigerant	Type / GWP				R-410A / 2,087.5										
	Circuits	Quantity			1										
Piping connections	Evaporator water inlet/outlet (OD)				1" 1/2		2" 1/2							3"	
Unit	Starting current	Max		A	204	255	261	308	316	354	368	466	481.0	640	677
	Running current	Cooling	Nom.	A	39	42	45	51	57	64	70	81	88	111	135
		Max		A	59	66	72	80	88	102	116	131	145	183	221
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400										

Condenserless multi-scroll chiller, standard efficiency, standard sound

- Dual refrigerant circuit (4 scroll compressors) with single evaporator
- For chilled water production, to be combined with a remote condensing unit
- Compact design to allow easy indoor installation or retrofit operations
- High efficiency and reliable scroll compressor
- Stainless steel plate heat exchanger



EWLQ-L-SS

Microtech 4

EWLQ-L-SS

Cooling only				EWLQ-L-SS	180	205	230	260	290	330	380	430	480	540	600	660	720
Cooling capacity	Nom.			kW	173	197	224	249	279	317	361	409	459	511	571	624	676
Power input	Cooling	Nom.		kW	44.3	51.1	57.9	65.6	73.2	83.8	93.5	108	119	135	152	168	184
Capacity control	Method				Step												
	Minimum capacity			%	25.0	21.0	25.0	22.0	25.0	23.0	25.0	21.0	25.0	22.0	20.0	18.0	25.0
EER					3.91	3.86	3.87	3.79	3.81	3.78	3.86	3.79	3.84	3.78	3.76	3.71	3.67
Dimensions	Unit	Height		mm	1,970									2,090	2,210		
		Width		mm	928												
		Length		mm	2,801												
Weight	Unit			kg	832	1,007	1,202	1,252	1,333	1,380	1,432	1,511	1,560	1,609	1,694	1,833	1,957
	Operation weight			kg	894	1,081	1,292	1,345	1,436	1,486	1,547	1,638	1,690	1,741	1,844	1,990	2,120
Water heat exchanger - evaporator	Type				Plate heat exchanger												
	Water volume			l	19	22	29		35		41	49			62		
	Water flow rate	Nom.		l/s	8.3	9.5	10.7	11.9	13.4	15.2	17.3	19.6	21.9	24.5	27.3	29.9	32.4
	Water pressure drop	Cooling	Nom.	kPa	25		20	25	22	29			36	45	44	52	62
Compressor	Type				Scroll compressor												
	Quantity				4												
Sound power level	Cooling	Nom.		dBA	83.0	86.0	88.0	90.0	91.0			93.0	95.0			96.0	
Sound pressure level	Cooling	Nom.		dBA	65.0	68.0	70.0	72.0	74.0		73.0	76.0	77.0		78.0		
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	-10~15												
	Condenser	Cooling	Min.~Max.	°CDB	30~60												
Refrigerant	Type / GWP				R-410A / 2,087.5												
	Circuits	Quantity			2												
Piping connections	Evaporator water inlet/outlet (OD)				3"												
Unit	Starting current	Max		A	263	320	333	388	403	456	484	597	626	785	822	860	898
	Running current	Cooling	Nom.	A	78	84	90	102	114	128	141	161	176	199	223	246	269
		Max		A	118	131	144	160	175	205	232	262	290	328	366	403	441
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400												

Condenserless screw chiller, standard efficiency, standard sound

- Compact design to allow easy indoor installation or retrofit operations
- Daikin semi-hermetic single screw stepless compressor
- **High energy efficiency both at full and part load conditions**
- Chilled water temperatures **down to -10°C** on standard unit
- Optimised for use with **R-134a**
- MicroTech 4 controller with superior control logic and easy interface



Screw compressor

EWLD-J-SS



Microtech 4

EWLD-J-SS

Cooling only				**EWLD-J-SS**	**110**	**130**	**145**	**165**	**195**	**235**	**265**
Cooling capacity	Nom.			kW	110	128	142	163	191	236	264
Power input	Cooling	Nom.		kW	31.2	38.4	43.8	50.4	56.0	66.0	75.3
Capacity control	Method				Stepless						
	Minimum capacity			%	25.0						
EER					3.51	3.33	3.25	3.24	3.42	3.58	3.51
Dimensions	Unit	Height		mm	1,020						
		Width		mm	913						
		Length		mm	2,684						
Weight	Unit			kg	1,124	1,141	1,237	1,263	1,305	1,489	1,489
	Operation weight			kg	1,138	1,159	1,253	1,281	1,327	1,518	1,518
Water heat exchanger - evaporator	Type				Plate heat exchanger						
	Water volume			l	14	18	14	17	20	26	26
	Water flow rate	Nom.		l/s	5.2	6.1	6.8	7.8	9.2	11.3	12.6
	Water pressure drop	Cooling	Nom.	kPa	14	13	39	37	33	26	32
Compressor	Type				Single screw compressor						
	Quantity				1						
Sound power level	Cooling	Nom.		dBA	89.0						
Sound pressure level	Cooling	Nom.		dBA	79.0						
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	-10~15						
	Condenser	Cooling	Min.~Max.	°CDB	25~60						
Refrigerant	Type / GWP				R-134a / 1,430						
	Circuits	Quantity			1						
Piping connections	Evaporator water inlet/outlet (OD)				76.2 mm						
Unit	Maximum Starting current			A	153		197		197	290	290
	Nominal running current (RLA)	Cooling		A	52	62	72	81	91	107	120
	Maximum running current			A	85	103	114	130	154	168	201
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						

Performances according to CSS software 10.34

Condenserless screw chiller, standard efficiency, standard sound

- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- Daikin semi-hermetic single screw compressor
- Direct expansion plate to plate evaporator
- Shell and tube condenser
- Silver efficiency and standard sound
- Upgrade to new MicroTech 4 controller



Screw compressor

EWLH-J_EWLS-J



Microtech 4

EWLH-J-SS

					EWLH-J-SS	080	100	110	130	140	170	190
Cooling capacity	Nom.			kW		84	102	109	127	143	174	193
Power input	Cooling	Nom.		kW		23.3	28.1	31.8	37	41.5	49.6	56.3
Capacity control	Method					Stepless						
	Minimum capacity			%		25						
EER						3.62		3.43	3.42	3.43	3.51	3.43
Dimensions	Unit	Height		mm		1,020						
		Width		mm		913						
		Length		mm		2,684						
Weight	Unit			kg		1,124	1,141	1,237	1,263	1,305	1,489	
	Operation weight			kg		1,138	1,159	1,253	1,281	1,327	1,518	
Water heat exchanger - evaporator	Type					Plate heat exchanger						
	Water volume			l		14	18	14	17	20	26	
	Water flow rate	Cooling	Nom.	l/s		4	4.9	5.2	6	6.8	8.3	9.2
	Water pressure drop	Cooling	Nom.	kPa		9.7	9.9	17.5	17.6	16.2	15.5	18.7
Compressor	Type					Single screw compressor						
	Quantity					1						
Sound power level	Cooling	Nom.		dBA		88.9						
Sound pressure level	Cooling	Nom.		dBA		79						
Refrigerant	Type					R-1234(ze)						
	Circuits	Quantity				1						
Piping connections				mm		76.2						
Unit	Starting current	Max		A		153		197			290	
	Running current	Cooling	Nom.	A		42	48	59	65	72	84	92
		Max		A		75	90	100	114	143	158	178
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

Performances according to CSS software 10.34

Condenserless screw chiller, standard efficiency, standard sound

- Refrigerant R-513A
- Daikin semi-hermetic single screw compressor
- Direct expansion plate to plate evaporator
- Shell and tube condenser
- Silver efficiency and standard sound
- Upgrade to new MicroTech 4 controller



Screw compressor

EWLH-J_EWLS-J



Microtech 4

EWLS-J-SS

					EWLS-J-SS	110	130	150	170	200	240	270
Cooling capacity	Nom.			kW	111	132	150	175	200	236	268
Power input	Cooling	Nom.		kW	32.2	38.7	44.8	51.2	58.2	69.4	78.8
Capacity control	Method				Stepless						
	Minimum capacity			%	25						
EER					3.44	3.4	3.35	3.41	3.44	3.41	3.4
Dimensions	Unit	Height		mm	1,020						
		Width		mm	913						
		Length		mm	2,684						
Weight	Unit			kg	1,124	1,141	1,237	1,263	1,305	1,489	
	Operation weight			kg	1,138	1,159	1,253	1,281	1,327	1,518	
Water heat exchanger - evaporator	Type				Plate heat exchanger						
	Water volume			l	14	18	14	17	20	26	
	Water flow rate	Cooling	Nom.	l/s	5.3	6.3	7.2	8.4	9.6	11.3	12.8
	Water pressure drop	Cooling	Nom.	kPa	16	15.8	31.1	31.5	30	27	33.8
Compressor	Type				Single screw compressor						
	Quantity				1						
Sound power level	Cooling	Nom.		dBA	88.9						
Sound pressure level	Cooling	Nom.		dBA	79						
Refrigerant	Type				R-513A						
	Circuits	Quantity			1						
Piping connections				mm	76.2						
Unit	Starting current	Max		A	154			198		291	
	Running current	Cooling	Nom.	A	54	65	75	84	94	111	125
		Max		A	81	96	108	122	141	164	185
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						

Performances according to CSS software 10.34

Condenserless screw chiller, standard efficiency, standard sound

- DX shell and tube evaporator – one pass refrigerant side for easy oil circulation and return
- Stepless single-screw compressor
- Standard electronic expansion valve
- Optimised for use with R-134a



EWLD-I-SS

Cooling only				EWLD-I-SS	320	400	420	500	600	650	750	800	850	900	950	C10	C11	C12	C13	C14	C15	C16	C17
Cooling capacity	Nom.			kW	315	374	437	509	607	670	740	802	865	935	975	1,029	1,097	1,144	1,210	1,278	1,330	1,381	1,433
Power input	Cooling	Nom.		kW	80.3	96.0	113	134	160	175	192	208	224	246	264	283	286	302	318	336	356	375	395
Capacity control	Method				Stepless																		
	Minimum capacity			%	25.0				12.5							8.3							
EER					3.93	3.89	3.88	3.79	3.80	3.82	3.86			3.81	3.69	3.64	3.83	3.79	3.80		3.74	3.68	3.63
Dimensions	Unit	Height		mm	1,899				2,325							2,415							
		Width		mm	1,464											2,135							
		Length		mm	3,114				4,391							4,426							
Weight	Unit			kg	1,861		1,869	1,884	3,331	3,339	3,347	3,356	3,364	3,412		5,146	5,167		5,188	5,208			
	Operation weight			kg	2,054		2,052	2,056	3,602		3,603	3,604	3,605	3,645		5,667	5,671		5,677	5,680			
Water heat exchanger - evaporator	Type				Single pass shell and tube																		
	Water volume			l	193		183	172	271	263	256	248	241	233		504		489	472	504		489	472
	Water flow rate	Nom.		l/s	15.1	17.9	20.9	24.4	29.1	32.1	35.4	38.4	41.4	44.8	46.7	49.3	52.5	54.8	57.9	61.2	63.7	66.1	68.6
	Water pressure drop	Cooling	Total	kPa	34	46	49	56	50	40	52	49	40	49	36	54	47	51	43	53	57	61	65
Compressor	Type				Single screw compressor																		
	Quantity				1				2							3							
Sound power level	Cooling	Nom.		dBA	94.0	97.0					98.0	99.0	100.0					101.0		103.0			
Sound pressure level	Cooling	Nom.		dBA	75.0	76.0	78.0				79.0	80.0	81.0			80.0		81.0		83.0			
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	-8~15																		
	Condenser	Cooling	Min.~Max.	°CDB	25~60																		
Refrigerant	Type / GWP				R-134a / 1,430																		
	Circuits	Quantity			1				2							3							
Piping connections	Evaporator water inlet/outlet (OD)				42mm																		
Unit	Maximum Starting current			A	330	464			493	627	650	681		703		836		867	898		920	942	
	Nominal running current (RLA)		Cooling	A	131	157	181	214	260	287	313	338	361	391	420	448	470	493	517	542	571	601	631
	Maximum running current			A	204	233	271	299	407	436	465	504	542	570	597	670	698	737	775	814	841	868	896
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400																		



INVERTER

Water cooled centrifugal chiller, high efficiency, standard sound

- No friction loss, no oil contamination, no additional oil management systems and an increased equipment life thanks to the magnetic bearing technology
- Excellent part load efficiency
- Totally oil-free operation resulting in reduced maintenance costs and increased reliability
- Compact footprint through stacked heat exchanger lay-out
- Increased installation flexibility thanks to limited dimensions
- Easy handling: thanks to its compact size, it can easily pass through the doorway
- MicroTech 4 controller with superior control logic and easy interface
- A wide portfolio of options is available to meet different requirements.
- The compressor vibration levels are extremely low as a result of the high-speed design
- Optimized for highly efficient R134a refrigerant and compatible with next generation refrigerants

Centrifugal compressor



EWWD-DZ



Microtech 4



DAIKIN mAP

EWWD-DZXS

Cooling Only				EWWD-DZXS	320	440	530	610	640	700	880	C10	C13	C14	C15	C21
Space cooling	A Condition (35°C - 27/19)	Pdc		kW	320.01	443.01	528	610.02	638.01	699.97	883.01	1,056	1,325.26	1,402	1,564.57	2,070.42
	ηs,c			%	334	314	324	344	349	342	350	363	349.8	362	360.6	365.4
SEER					8.72	8.65	9.08	8.91	8.95	8.79	8.99	9.31	8.86	9.32	9.13	9.28
Cooling capacity	Nom.			kW	320	443	528	610	638	700	883	1,056	1,325	1,402	1,565	2,070
Power input	Cooling	Nom.		kW	66.5	88.5	102	124.7	131	126	176	205	272	256	310	391
Capacity control	Method				Variable											
	Minimum capacity			%	30	21		16	15	18	11		7	9	8	6
EER					4.81	5	5.14	4.89	4.85	5.53	5.01	5.15	4.88	5.46	5.04	5.3
ESEER					7.94	7.92	8.2	7.78	8.16	8.08	8.09	8.39	-	8.29	-	
IPLV					9.38	9.33	9.7	9.41	9.5	9.86	9.52	9.91	9.18	10.1	9.5	9.42
Dimensions	Unit	Height		mm	1,865			1,985				2,200	2,083	2,200	2,225	2,290
		Width		mm	1,055			1,160				1,270	1,510	1,270	1,510	
		Length		mm	3,625				3,585			3,580	4,793	3,580	4,768	4,812
Weight	Unit			kg	1,700	1,900	2,000	2,850		2,600	2,900	3,600	4,350	3,800	4,750	5,500
	Operation weight			kg	1,973	2,216	2,347	3,197	3,344	3,102	3,458	4,292	5,020	4,579	5,540	6,570
Water heat exchanger - evaporator	Type				Flooded shell and tube											
	Water volume			l	70	96	107		134		156	199	271.8	229	317.4	444.3
	Water flow rate	Nom.		l/s	15.3	21.2	25.3	29.1	30.5	33.5	42.3	50.6	-	67.2	-	
		Cooling	Nom.	l/s	-								63.4	-	74.9	99.1
	Water pressure drop	Cooling	Nom.	kPa	47.4	40.6	45	59.1	51	61.3	64	60.4	60.1	74	61.1	71.9
Water heat exchanger - condenser	Type				Shell and tube								Flooded Shell & Tube	Shell and tube	Flooded Shell & Tube	
	Water volume			l	83	100	120		170	188	211	263	359.9	320	442.6	603.6
	Water flow rate	Nom.		l/s	18.3	25.3	30.1	35.1	36.7	39.4	50.5	60.1	-	79.1	-	
		Cooling	Nom.	l/s	-								76.1	-	89.5	117
	Water pressure drop	Cooling	Nom.	kPa	49.2	59.5	54.5	74	46.2	41.6	50.9	50.3	56	52.9	43	57
Compressor	Type				Driven vapour compressor											
	Quantity				1			2		1	2		3	2	3	
Sound power level	Cooling	Nom.		dBA	87.9	88.9	89.9	91.1	91	91.1	92	93.3	99	94.3	100	101
Sound pressure level	Cooling	Nom.		dBA	69.6	70.6	71.6	72.6			73.6	74.6	80	75.6	81	82
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	4~20											
	Condenser	Cooling	Min.~Max.	°CDB	20~55		20~42	20~55		20~42	20~55	20~42	20~55	20~42		
Refrigerant	Type/GWP				R-134a/1,430											
	Charge			kg	120				180			230	320	230	340	390
	Circuits	Quantity			1											
Refrigerant charge				TCO2Eq	172				257			329	-	329	-	
Piping connections				mm	139.7				168.3					219.1		
Piping connections				mm	139.7					168.3				219.1		
Unit	Running current	Cooling	Nom.	A	100.55	138.22	155.23	203.41	200.56	190.23	274.86	309.17	445	383.87	471.7	588
		Max		A	134	208	166	267		196	417	331	631	392	511	589
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400											

Performances according to CSS software 10.27

INVERTER

Water cooled centrifugal chiller, high efficiency, standard sound

- No friction loss, no oil contamination, no additional oil management systems and an increased equipment life thanks to the magnetic bearing technology
- Excellent part load efficiency
- Totally oil-free operation resulting in reduced maintenance costs and increased reliability
- Compact footprint through stacked heat exchanger lay-out
- Increased installation flexibility thanks to limited dimensions
- Easy handling: thanks to its compact size, it can easily pass through the doorway
- MicroTech 4 controller with superior control logic and easy interface
- A wide portfolio of options is available to meet different requirements.
- The compressor vibration levels are extremely low as a result of the high-speed design
- Optimized for highly efficient R134a refrigerant and compatible with next generation refrigerants





DAIKIN mAP

EWWD-DZXE

Cooling Only				EWWD-DZXE	340	470	570	670	680	740	950	C10	C11	C14	C15	C17	C22
Space cooling	A Condition (35°C - 27/19)	Pdc	kW		341.01	474.02	566	670	682	741.96	946	1,038.18	1,130	1,436.52	1,477.93	1,684.76	2,172.91
	ηs,c		%		335	316	326	345	349	346	352	339.8	365	350.6	366	359	370.2
SEER					8.67	8.7	9.14	8.89	8.99	8.9	9.06	8.83	9.39	8.91	9.43	9.14	9.41
Cooling capacity	Nom.		kW		341	474	566	670	682	742	946	1,038	1,130	1,437	1,478	1,685	2,173
Power input	Cooling	Nom.	kW		69.9	93.5	108	138.4	138	131	186	210	216	288	263	329	393
Capacity control	Method				Variable												
	Minimum capacity		%		29	20		15		17	10			7	9	7	6
EER					4.88	5.07	5.22	4.84	4.91	5.65	5.08	4.94	5.23	4.98	5.6	5.12	5.53
ESEER					7.81	7.83	8.11	7.52	8	8.09	7.96	-	8.26	-	8.22	-	
IPLV					9.29	9.3	9.71	9.22	9.37	9.9	9.46	9.33	9.86	9.2	10.1	9.49	9.52
Dimensions	Unit	Height	mm		1,865			1,985				2,082	2,200	2,083	2,200	2,225	2,290
		Width	mm		1,055			1,160				1,510	1,270	1,510	1,270	1,510	
		Length	mm		3,625				3,585			4,688	3,580	4,793	3,580	4,768	4,812
Weight	Unit		kg		1,750	1,950	2,050	2,850		2,650	3,000	4,400	3,700	4,700	3,900	5,100	5,900
	Operation weight		kg		2,033	2,276	2,407	3,197	3,354	3,162	3,568	4,970	4,412	5,370	4,699	5,890	6,920
Water heat exchanger - evaporator	Type				Flooded shell and tube												
	Water volume		l		70	96	107		134		156	207.3	199	317.4	229	317.4	444.3
	Water flow rate	Nom.	l/s		16.4	22.7	27.1	32	32.7	35.6	45.3	-	54.1	-	70.9	-	
		Cooling Nom.	l/s		-							49.1	-	68	-	80.4	103
	Water pressure drop	Cooling Nom.	kPa		54.2	46.5	51.5	71.4	58.3	68.7	73.2	61.4	68.9	70.7	82	70.7	78.9
Water heat exchanger - condenser	Type				Shell and tube							Flooded Shell & Tube	Shell and tube	Flooded Shell & Tube	Shell and tube	Flooded Shell & Tube	
	Water volume		l		83	100	120		170	188	211	326.4	263	359.9	320	442.6	603.6
	Water flow rate	Nom.	l/s		19.6	27	32.1	38.6	39.1	41.6	53.9	-	64.1	-	83	-	
		Cooling Nom.	l/s		-							58.9	-	81.4	-	95.8	121
	Water pressure drop	Cooling Nom.	kPa		56.4	68.4	62.4	90	52.9	46.7	58.3	44	57.6	66	58.5	50	62
Compressor	Type				Driven vapour compressor												
	Quantity				1			2		1	2	3	2	3	2	3	
Sound power level	Cooling	Nom.	dBA		87.9	88.9	89.9	91.1	91	91.1	92	98	93.3	99	94.3	100	101
Sound pressure level	Cooling	Nom.	dBA		69.6	70.6	71.6	72.6			73.6	79	74.6	80	75.6	81	82
Operation range	Evaporator	Cooling Min.~Max.	°CDB		4~20												
	Condenser	Cooling Min.~Max.	°CDB		20~55		20~42	20~55		20~42	20~55		20~42	20~55	20~42		
Refrigerant	Type/GWP				R-134a/1,430												
	Charge		kg		130			120	200	190	200	350	250	400	250	420	470
	Circuits	Quantity			1												
Refrigerant charge			TCO2Eq		186			172	286	272	286	-	358	-	358	-	
Piping connections			mm		139.7				168.3				219.1				
Piping connections			mm		139.7							168.3			219.1		
Unit	Running current	Cooling Nom.	A		105.42	144.7	162.48	212.9	210.15	196	287.44	318.3	323.53	425.9	392	496	588
		Max	A		134	208	166	267		196	417	406	331	631	392	511	589
Power supply	Phase/Frequency/Voltage		Hz/V		3~/50/400												

Performances according to CSS software 10.27

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EWWH-DZXS

Cooling Only				EWWH-DZXS	230	320	380	430	455	460	640	755	920	945	C11	C13
Space cooling	A Condition (35°C - 27/19)	Pdc		kW	227.08	318.33	376.33	455.13	454.66	474.48	637.15	752.27	917.79	945.8	1,126	1,352
	ηs,c			%	330	346		342		339	352	354	353	360.2	359.4	364.2
SEER					8.78	8.66	8.67	8.8	8.78	8.32	9.04	9.07	9.06	9.02	9.04	9.13
Cooling capacity	Nom.			kW	227	318	376	455		461	637	752	918	945.8	1,126	1,352
Power input	Cooling	Nom.		kW	45.6	60.5	71.4	93.3	90.6	79.3	120.5	142.1	158.8	181	216.5	237.7
Capacity control	Method				Variable									Stepless		
	Minimum capacity			%	24	21	20	13	12	20	11	10		11		16
EER					4.98	5.27		4.88	5.02	5.81	5.29		5.78	5.22	5.2	5.69
ESEER					7.78	7.97	7.98	7.89	8.06	7.76	8.26	8.3	8.16	-		
IPLV					9.37	9.52	9.56	9.44	9.5		9.74	9.78	9.74	9.54	9.57	9.71
Dimensions	Unit	Height		mm	1,865			1,985				2,200		2,083	2,225	2,290
		Width		mm	1,055			1,160				1,270		1,510		
		Length		mm	3,625				3,585			3,580		4,793	4,768	4,812
Weight	Unit			kg	1,700	1,900	2,000	2,850		2,600	2,900	3,600	3,800	4,350	4,750	5,500
	Operation weight			kg	1,973	2,216	2,347	3,197	3,344	3,102	3,458	4,292	4,579	5,020	5,540	6,570
Water heat exchanger - evaporator	Type				Flooded shell and tube											
	Water volume			l	70	96	107		134		156	199	229	271.8	317.4	444.3
	Water flow rate	Cooling	Nom.	l/s	10.8	15.2	18	20.5	21.7	22	30.4	35.9	43.9	45.2	53.8	64.6
	Water pressure drop	Cooling	Nom.	kPa	28.2	24.6	26.8	31.7	27.8	28.6	35.9	33	34.3	30	31	
Water heat exchanger - condenser	Type				Shell and tube									Flooded Shell & Tube		
	Water volume			l	83	100	120		170	188	211	263	320	359.9	442.6	603.6
	Water flow rate	Cooling	Nom.	l/s	13	18.1	21.4	24.5	26.1	25.8	36.2	42.7	51.4	53.8	64.2	76
	Water pressure drop	Cooling	Nom.	kPa	24	30	27	35	23	17	25		22	27	26	24
Compressor	Type				Driven vapour compressor											
	Quantity				1			2		1	2			3		
Sound power level	Cooling	Nom.		dBA	87.9	88.9	89.9	91.1	91	91.1	92	93.3	94.3	99	100	101
Sound pressure level	Cooling	Nom.		dBA	69.6	70.6	71.6	72.6			73.6	74.6	75.6	80	81	82
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	4~20											
	Condenser	Cooling	Min.~Max.	°CDB	20~55		20~42	20~55		20~42	20~55	20~42		20~55	20~42	
Refrigerant	Type/GWP				R-1234(ze)/7											
	Charge			kg	120				180			230		320	340	390
	Circuits	Quantity			1											
Refrigerant charge				TCO2Eq	1							2		-		
Piping connections				mm	139.7				168.3				219.1			
				mm	139.7				168.3				219.1	168.3	219.1	
Unit	Running current	Cooling	Nom.	A	72	99	112	133	144	125	198	222	249	297.8	339.2	374.1
Unit	Running current	Max		A	95	150	123	190		142	300	246	284	451	370	448
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400											

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EWWH-DZXE

Cooling Only				EWWH-DZXE	245	345	405	470	480	490	685	740	810	955	C10	C12	C14
Space cooling	A Condition (35°C - 27/19)	Pdc	kW		241.98	339.33	401.93	460.88	483.83	486.57	678.69	741	802.77	944.73	1,033	1,226	1,417
	ηs,c		%		331	350		335	345	344	356	344.6	358	356	364.2		371.8
SEER					8.85	8.75	8.79	8.94	8.4	8.9	9.18	8.8	9.22	9.15	9.17		9.35
Cooling capacity	Nom.		kW		242	339	402	487	474	484	679	741	803	945	1,033	1,226	1,417
Power input	Cooling	Nom.	kW		47.9	63.4	75.1	98.7	79.5	95.1	126.3	144.6	149.4	159.2	192.9	229.5	238.3
Capacity control	Method				Variable							Stepless	Variable		Stepless		
	Minimum capacity		%		24	20	19	12	20	12	10	12	9	10	11		17
EER					5.05	5.35		4.93	5.97	5.09	5.37	5.13	5.37	5.93	5.35	5.34	5.94
ESEER					7.78	8.02	8	7.75	7.83	8.04	8.22	-	8.27	8.23	-		
IPLV					9.33	9.54	9.58	9.36	9.56	9.43	9.74	9.44	9.79	9.8	9.62	9.65	9.72
Dimensions	Unit	Height	mm		1,865			1,985				2,082	2,200		2,083	2,225	2,290
		Width	mm		1,055			1,160				1,510	1,270		1,510		
		Length	mm		3,625				3,585			4,688	3,580		4,793	4,768	4,812
Weight	Unit		kg		1,750	1,950	2,050	2,850	2,650	2,850	3,000	4,400	3,700	3,900	4,700	5,100	5,900
	Operation weight		kg		2,033	2,276	2,407	3,197	3,162	3,354	3,568	4,970	4,412	4,699	5,370	5,890	6,920
Water heat exchanger - evaporator	Type				Flooded shell and tube												
	Water volume		l		70	96	107		134		156	207.3	199	229	317.4		444.3
	Water flow rate	Cooling	Nom.	l/s	11.6	16.2	19.2	22.4	22.6	23.1	32.4	34.9	38.4	45.2	48.7	57.9	67
	Water pressure drop	Cooling	Nom.	kPa	29.7	28.4		37.8	30.8	32	41.3	31	38.1	36.9	37	38	33
Water heat exchanger - condenser	Type				Shell and tube							Flooded Shell & Tube	Shell and tube		Flooded Shell & Tube		
	Water volume		l		83	100	120		188	170	211	326.4	263	320	359.9	442.6	603.6
	Water flow rate	Cooling	Nom.	l/s	13.9	19.2	22.8	26.7	26.4	27.7	38.5	41.8	45.5	52.8	57.8	68.8	78.4
	Water pressure drop	Cooling	Nom.	kPa	28	34	31	42	18	26	29	21	28	23	33	30	26
Compressor	Type				Driven vapour compressor												
	Quantity				1			2	1	2		3	2		3		
Sound power level	Cooling	Nom.	dBA		87.9	88.9	89.9	91.1		91	92	98	93.3	94.3	99	100	101
Sound pressure level	Cooling	Nom.	dBA		69.6	70.6	71.6	72.6			73.6	79	74.6	75.6	80	81	82
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	4~20												
	Condenser	Cooling	Min.~Max.	°CDB	20~55		20~42	20~55	20~42	20~55			20~42		20~55	20~42	
Refrigerant	Type/GWP				R-1234(ze)/7												
	Charge		kg		130			120	190	200		350	250		400	420	470
	Circuits	Quantity			1												
Refrigerant charge			TCO2Eq		1							-	2		-		
Piping connections			mm		139.7				168.3				219.1				
			mm		139.7				168.3					219.1	168.3	219.1	
Unit	Running current	Cooling	Nom.	A	75	103	117	142	125	150	205	277	232	249	311	249	
Unit	Running current	Max		A	95	150	123	190	142	190	300	286	246	284	451	370	448
Power supply	Phase/Frequency/Voltage		Hz/V		3~/50/400												

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DAIKIN mAP

EWWS-DZXS

Cooling Only				EWWS-DZXS	320	440	530	610	640	700	880	C10	C13	C14	C15	C21
Space cooling	A Condition (35°C - 27/19)	Pdc	kW		315.85	438.98	520.21	629.71	630.64	694.46	875.77	1,043.15	1,304.67	1,390.46	1,549.85	2,027.16
	ηs,c		%		3.416	3.376	3.54	3.448	3.508	3.428	3.508	3.636	3.448	3.624	3.552	3.608
SEER					8.74	8.64	9.05	8.82	8.97	8.77	8.97	9.29	8.82	9.26	9.08	9.22
Cooling capacity	Nom.		kW		316	439	520	609	631	694	876	1,043	1,305	1,390	1,550	2,027
Power input	Cooling	Nom.	kW		67.1	90	103	126	132	127	177	205	270	257	312	384
Capacity control	Method				Variable											
	Minimum capacity		%		30	21		16	15	18	11		7	9	8	6
EER					4.71	4.88	5.05	4.82	4.77	5.44	4.92	5.08	4.82	5.4	4.96	5.27
IPLV					9.31	9.25	9.61	9.29	9.44	9.77	9.45	9.83	9.1	9.96	9.38	9.34
Dimensions	Unit	Height	mm		1,865			1,985				2,200	2,083	2,200	2,225	2,290
		Width	mm		1,055			1,160				1,270	1,510	1,270	1,510	
		Depth	mm		3,625				3,585			3,580	4,793	3,580	4,768	4,812
Weight	Unit		kg		1,700	1,900	2,000	2,850		2,600	2,900	3,600	4,350	3,800	4,750	5,500
	Operation weight		kg		1,973	2,216	2,347	3,197	3,344	3,102	3,458	4,292	5,020	4,579	5,540	6,570
Water heat exchanger - evaporator	Type				Flooded shell and tube											
	Water volume		l		70	96	107		134		156	199	272	229	317	444
	Water flow rate	Cooling	Nom.	l/s	15.3	21.3	25.2	29.1	30.6	33.7	42.5	50.5	63.1	67.4	75	98.1
	Water pressure drop	Cooling	Nom.	kPa	47.3	40.9	44.8	59.1	51.1	61.7	64.5	59.3	59.5	74.4	61.3	70.4
Water heat exchanger - condenser	Type				Flooded Shell & Tube											
	Water volume		l		83	100	120		170	188	211	263	360	320	443	604
	Water flow rate	Cooling	Nom.	l/s	18.4	25.4	30.1	34.9	36.8	39.6	50.8	60.2	75.9	79.5	89.9	116
	Water pressure drop	Cooling	Nom.	kPa	49.4	60.4	54.5	74.2	46.5	42.1	51.5	50.4	56.1	53.4	43.7	55.7
Compressor	Type				Driven vapour compressor											
	Quantity				1			2		1	2		3	2	3	
Sound power level	Cooling	Nom.	dBA		87.9	88.9	89.9	91.1	91.0	91.1	92.0	93.3	93.5	94.3	94.8	95.8
Sound pressure level	Cooling	Nom.	dBA		69.6	70.6	71.6		72.6		73.6	74.6	73.9	75.6	75.2	76.2
Refrigerant	Type/GWP				R-513A/631											
	Charge		kg		120	150	120	140	190	180	200	230	240	230	270	
	Circuits	Quantity			1											
Piping connections			mm		139.7				168.3			219.1				
			mm		139.7				168.3					219.1		

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EWWS-DZXE

Cooling Only				EWWS-DZXE	340	470	570	670	680	740	950	C10	C11	C14	C15	C17	C22
Space cooling	A Condition (35°C - 27/19)	Pdc	kW		336.72	471.24	558.03	676.76	674.49	728.69	941.72	1,024.55	1,117.07	1,419.67	1,450.66	1,652.82	2,128.56
		ηs,c	%		3.428	3.396	3.568	3.452	3.52	3.464	3.532	3.444	3.664	3.464	3.668	3.556	3.656
SEER					8.77	8.69	9.12	8.83	9	8.86	9.03	8.81	9.36	8.86	9.37	9.09	9.34
Cooling capacity	Nom.		kW		337	471	558	671	674	729	942	1,025	1,117	1,420	1,451	1,653	2,129
Power input	Cooling	Nom.	kW		70.2	95.1	108	139		129	188	209	215	287	259	324	385
Capacity control	Method				Variable												
	Minimum capacity		%		29	20		15		17	10			7	9	7	6
EER					4.8	4.96	5.15	4.8	4.85	5.61	5.01	4.89	5.18	4.94	5.6	5.1	5.52
IPLV					9.22	9.2	9.59	9.11	9.31	9.78	9.38	9.25	9.81	9.12	9.98	9.4	9.41
Dimensions	Unit	Height	mm		1,865			1,985				2,082	2,200	2,083	2,200	2,225	2,290
		Width	mm		1,055			1,160				1,510	1,270	1,510	1,270	1,510	
		Depth	mm		3,625				3,585			4,688	3,580	4,793	3,580	4,768	4,812
Weight	Unit		kg		1,750	1,950	2,050	2,850		2,650	3,000	4,400	3,700	4,700	3,900	5,100	5,900
	Operation weight		kg		2,033	2,276	2,407	3,197	3,354	3,162	3,568	4,970	4,412	5,370	4,699	5,890	6,920
Water heat exchanger - evaporator	Type				Flooded shell and tube												
	Water volume		l		70	96	107		134		156	207	199	272	229	317	444
	Water flow rate	Cooling	Nom.	l/s	16.3	22.9	27	32	32.7	35.3	45.6	49.6	54.1	68.8	70.3	80.1	102
	Water pressure drop	Cooling	Nom.	kPa	54.1	47.2	51.3	71.4	58.3	67.8	74.1	61.2	67.7	70.6	80.8	69.7	77.4
Water heat exchanger - condenser	Type				Flooded Shell & Tube												
	Water volume		l		83	100	120		170	188	211	326	263	360	320	443	604
	Water flow rate	Cooling	Nom.	l/s	19.6	27.3	32.1	38.4	39.2	41.4	54.4	59.5	64.2	82.3	82.5	95.5	121
	Water pressure drop	Cooling	Nom.	kPa	56.5	69.8	62.4	90.8	53.2	46.1	59.4	43.6	57.7	66.4	57.7	49.5	60.7
Compressor	Type				Driven vapour compressor												
	Quantity				1			2		1	2	3	2	3	2	3	
Sound power level	Cooling	Nom.	dBA		87.9	88.9	89.9	91.1	91.0	91.1	92.0	92.6	93.3	93.5	94.3	94.8	95.8
Sound pressure level	Cooling	Nom.	dBA		69.6	70.6	71.6	72.6			73.6	73	74.6	73.9	75.6	75.2	76.2
Refrigerant	Type/GWP				R-513A/631												
	Charge		kg		160	130		200		190	200	270	250	270	250	300	355
	Circuits	Quantity			1												
Piping connections			mm		139.7				168.3				219.1				
			mm		139.7				168.3						219.1		

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- Single Compressor chiller
- High part load efficiency with Daikin VFD Unit Mounted - Refrigerant Cooled
- Low Harmonics VFD option
- Excellent Full Load performance
- Unloading down to 10% without Hot Gas By Pass
- Refrigerant flexibility with R-134a, R-1234ze and R-513A
- Reduced refrigerant quantity
- Touch screen operator panel
- Unit mounted control panel
- Rapid restart for fast start-up after power loss
- Heat pump mode



Centrifugal compressor



DWSC C

Microtech 4

Daikin Centrifugal Compressor
No compromises in application flexibility
- Proven compressor technology (Daikin centrifugal compressor design)



Rapid restart for fast start-up after power loss
The UPS keeps the controller switched on enabling the unit to quickly reach the full load. Focused on data center and all applications where the cooling capacity supply is crucial.

Reduced refrigerant quantity
Thanks to the new high efficiency tubes and more compact heat exchanger design.

Heat pump mode
With reversibility on water side whenever a heating load is demanded thus improving suitability for applications with changing load during the year.

DWSC-C

Cooling Only			DWSC C	DWSC C	DWSC C
Cooling capacity	Min./Max.	kW	1,050 (1)/4,500 (1)	700 (1)/3,300 (1)
Compressor	Type		Single stage centrifugal compressor	Single stage centrifugal compressor
Refrigerant	Type		R-134a / R-513A	R-1234(ze)
Power supply	Frequency	Hz	50/60	50/60

(1) AHRI conditions

Water cooled centrifugal chiller, high efficiency, standard sound

- Lower equipment, installation and annual operating costs than two single compressor chillers
- Main components can be removed or repaired without shutting down the unit as the chiller has two of everything (compressors, lubrication systems, control systems and starters)
- Compact design for small footprint and minimized installation space
- Unloading to 5% of full load provides improved stability of the chilled water temperature and less harmful cycling of compressors
- High efficiency flooded type shell and tube evaporator/condensers



DWDC C



Free cooling operation
Allows to reduce the power consumption generated by traditional mechanical cooling.

Touch screen operator panel



Touch screen operator panel is graphically intuitive and easy to use for enhanced operator productivity. Important status and control information is available at a glance or a touch.

Unit mounted control panel



DWDC-C

Cooling Only			DWDC C	DWDC C	DWDC C
Cooling capacity	Min./Max.	kW	2,100 (1)/9,000 (1)	1,400 (1)/6,700 (1)
Compressor	Type		Single stage centrifugal compressor	Single stage centrifugal compressor
Refrigerant	Type		R-134a / R-513A	R-1234(ze)
Power supply	Frequency	Hz	50/60	50/60

(1)AHRI conditions

Accessories - Chillers

Panels			Air-cooled chillers							
			EWAA~BVP EWYA~BVP	EWAA~DA EWYA~DA	EWYD~BZ	EWYD~4Z	EWYT~B-	EWAH~TZB & C	EWAD~TZB & C	EWAD~T- C
EKDICMPAB	(a) (b) (c)	iCM Primary Basic								•
EKDICMPAL	(a) (b) (c)	iCM Primary for evaporator peripherals Light						•	•	•
EKDICMPAF	(a) (b) (c)	iCM Primary for evaporator peripherals Full						•	•	•
EKDICMPWL	(a) (b) (c)	iCM primary Evaporator/Condenser Light								
EKDICMPWF	(a) (b) (c)	iCM primary Evaporator/Condenser Full								
EKDICMCTL	(a) (b)	iCM Cooling towers Light								
EKDICMCTF	(a) (b)	iCM Cooling towers Full								
EKDICMPABIO	(a) (b)	iCM Primary Basic with IO third party chiller						•	•	•
EKDICMPALIO	(a) (b)	iCM Primary Evaporator Light with IO third party chiller						•	•	•
EKTSMS		Temperature sensor for master/slave configuration					•			
EKRUMCL1		User Interface	•							

Serial Cards & Communication Modules		Air-cooled chillers							
		EWAA~BVP EWYA~BVP	EWAA~DA EWYA~DA	EWYD~BZ	EWYD~4Z	EWYT~B-	EWAH~TZB & C	EWAD~TZB & C	EWAD~T- C
EKAC200J	Serial Card RS485/Modbus			•					
EKACBAC	Ethernet Card BACnet			•					
EKACLONP	Serial Card LON FTT 10			•					
EKACRS232	Serial Card RS232 Modem Interface (single unit only)			•					
EKACWEB	Web Server Card			•					
EKACBACMSTP	Serial Card BACnet MSTP			•					
EKACBACCERT	Serial Card BACnet pre-loaded IP/Ethernet (centrifugal chillers)								
EKACMSTPCERT	Serial Card BACnet pre-loaded MSTP (centrifugal chillers)								
EKCM200J	ModBus RTU communication module				•				
EKCMLON	LON communication module				•	•	•	•	•
EKCMBACMSTP	BACnet/MSTP communication module				•				
EKCMBACIP	BACnet/IP communication module				•	•	•	•	•
EKDOSMWO	Daikin on Site Modem without M2M card			•	•	•	•	•	•

Other Systems & Accessories			Air-cooled chillers							
			EWAA~BVP EWYA~BVP	EWAA~DA EWYA~DA	EWYD~BZ	EWYD~4Z	EWYT~B-	EWAH~TZB & C	EWAD~TZB & C	EWAD~T- C
EKCON		Converter RS485 to RS232			•					
EKCONUSB		Converter RS485 to USB			•					
EKMODEM		Fixed modem			•					
EKGSMOD		GSM modem			•					
EKRUPCJ		Remote display kit			•					
EKRUPCS		Local/remote display HMI				•	•	•	•	•
EKPWPROEXT		PlantWatchPro I/O extension module for hardwiring and retrofit			•					
EKGWWEB		Gateway web (Ethernet LAN SNMP)			•					
EKGWMODEM		Gateway for modem			•					
EKAC10C		Address card for connection to BMS or Remote user interface								
EKRUMCA		Remote installed user interface								
EKLS2	(d)	Low noise kit 22/28/35/45/55/65 Hp-units								
ECB2MUCW	(e)	Controller kit								
ECB3MUCW	(e)	Controller kit								
EKRP1AHT	(g)	Digital input/output PCB								
EKRUAHTB	(g)	Remote user interface								
DTA104A62	(f)	External control adapter								
BHGP26A1	(f)	Digital pressure gauge kit								
EKQDP2M016	(g)	Differential Pressure Sensor 4-20 mA 0-160 kPa					•	•	•	•
EKQDP2M020	(g)	Differential Pressure Sensor 4-20 mA 0-250 kPa					•	•	•	•
EKQDP2M040	(g)	Differential Pressure Sensor 4-20 mA 0-400 kPa					•	•	•	•
EKQDP2M060	(g)	Differential Pressure Sensor 4-20 mA 0-600 kPa					•	•	•	•
EKDAPCONT		Containerization of one unit			•	•	•	•	•	•
EKDAPSTF		Containerization of additional units in the same container			•	•	•	•	•	•

Notes:
(a) Price **does not** include commissioning of panel; if commissioning is required please refer to RN17-041
(b) iCM panels work in **cooling mode only**; heat pump versions, total heat recovery and Free cooling options on A/C and W/C chillers **are not compatible**
(c) In case you are ordering iCM panels please add corresponding modbus RTU communication module (EKCM200J or EKAC200J) for each chiller unit controller
(d) For 45/55/65 Hp-units 2 pieces are needed
(e) Only available for modular units (EWWP~KAW1M)

			Water-cooled chillers							Centrifugals		
ERAD~E-	EWAT~B-	EWAD~CF	EWWQ~KC	EWLQ~KC	EW_Q-G EW_Q_-L	EWLD~I-	EWWS/H/D~J- EWLS/H/D~J-	EWWH~VZ	EWWD~VZ	EWWH~DZ	EWWD~DZ	DWSC & DWDC
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			Water-cooled chillers							Centrifugals		
ERAD~E-	EWAT_B- (single)	EWAD~CF	EWWQ~KC	EWLQ~KC	EW_Q-G EW_Q_-L	EWLD~I-	EWWD~J- EWLD~J-	EWWH~VZ A	EWWD~VZ A	EWWH~DZ	EWWD~DZ	DWSC & DWDC
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			Water-cooled chillers							Centrifugals		
ERAD~E-	EWAT_B- (single)	EWAD~CF	EWWQ~KC	EWLQ~KC	EW_Q-G EW_Q_-L	EWLD~I-	EWWD~J- EWLD~J-	EWWH~VZ A	EWWD~VZ A	EWWH~DZ	EWWD~DZ	DWSC & DWDC
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(f) Price available in SAP system
(g) Differential pressure sensor are specific for iCM panels in variable primary flow management



Fan Coil Units are a highly efficient means of turning a water chiller, heat pump or hot water boiler into an efficient, quiet air conditioning system. These units are an effective solution to provide a comfortable environment for both commercial and residential applications. Daikin offers a wide range of Fan Coil Units for both concealed and exposed applications. Three models are available in flexible application. The only moving part in the units is the fan, making them ideal for use in offices, hotels and at home. The goal is to obtain the right solution, both technically and aesthetically.

Fan coil units

Why choose Daikin fan coil units? 776

Products overview 782

Closed protocol cassette **786**

- FWC-BT/BF 786
- FWF-BT/BF 787

Open protocol cassette **788**

- FWF-DT/DF 788
- FWC-DT/DF 789
- FWH-AT/AF 791
- FWI-AT/AF 790

Floor standing unit **792**

- FWZ-AT/AF 792
- FWV-DAT/DAF 793

Flexi type unit **794**

- FWR-AT/AF 794
- FWL-DAT/DAF 795
- FWS-AT/AF 796
- FWM-DAT/DAF 797
- FWE-DT/DF 798

Ducted units **800**

- FWE-FT/FF with low ESP 800
- FWP-CT/CF with medium ESP 802
- FWB-CT/CF with medium ESP 803
- FWN-AT/AF with high ESP 804
- FWD-AT/AF with high ESP 805

Wall mounted unit **806**

- FWT-GT 806
- FWT-HT 807

Options & accessories - Fan coil units: Panels and Controls **808**



Why choose Daikin fan coil units?

As more buildings undergo renovation, the need to be able to deliver high indoor air quality in a specific space in an **efficient and cost-effective way** without having to do a radical re-fit of the entire HVAC system has made fan coil technology an obvious solution. Daikin has a full capacity range of **aesthetically pleasing** fan coil units with advanced controls that reliably deliver **excellent comfort levels.** And by using a refined range of advanced DC fan motors, we are able to offer flexibility while maintaining very low noise levels.

Why choose Daikin fan coil units?

- The new brushless DC ranges reflect Daikin's commitment to developing highly efficient fan coil units that help to reduce energy consumption, without compromising on reliability and performance.
- High level quality is written large for us and we are pleased to offer high technology solutions to the market.

Benefits for the installer

- Reduced amount of sizes: less stock space needed
- Modular designs for multiple configurations
- Easy integration in BMS system via modbus protocol

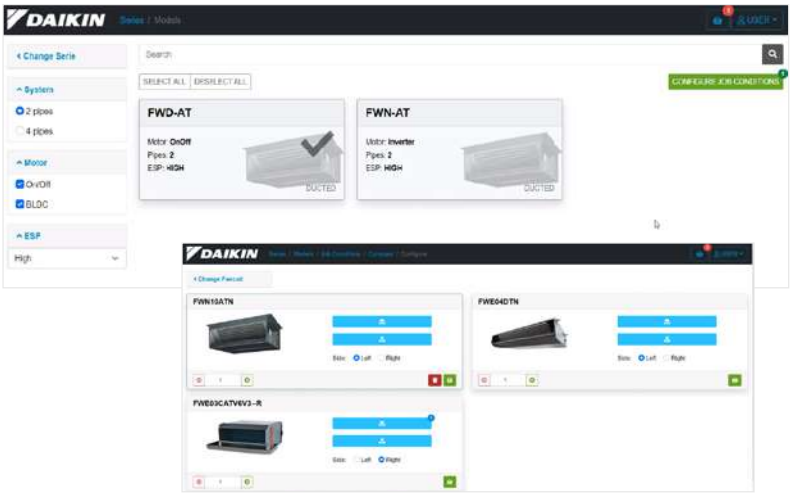
Benefits for the consultant

- Best solution in the market in order to have top efficiency, best comfort and lowest sound levels
- Product flexibility: wide range of options, accessories and controls

Benefits for the end user

- High comfort level
- Up to 70% savings on running costs with a BLDC fan motor
- Controller with timer programmed operating mode
- Shinka controller can satisfy all customer requirements in terms of FCU management

New generation web-based fan coil selection software



Select your FCU via our new web-based selection software:

- Selection logic is based on the performance conditions requested and filtered by the user
- The unit is completely configurable by the user with all the options/ accessories available
- A modular report with certified technical specifications and project summary can be printed

BIM objects

Our Fan Coils units are available as BIM objects in Revit format, which means they can be used in Autodesk REVIT MEP and in AutoCAD 2D files.

Visit our **BIM Application Suite**

BLDC fan motors Video

Learn more on the advantages of BLDC fan motors in Fan coil units:

- Higher efficiency than AC motor
- High comfort level
- Low sound levels
- High flexibility level



YouTube

www.youtube.com/
DaikinEurope

Expanded FCU Controller Lineup

FWEC2T/4T/10
Simplified electronic controller

Wired on-wall controller available in 3 models:

- 2 pipe
- 4 pipe
- BLDC (with automatic speed function)
- 230 V ON-OFF valve control (cooling/heating)
- Dedicated temperature probe and on-board mounting kit







New BLDC Open Protocol Cassette

FWF-D & FWC-D

Structure & Performance

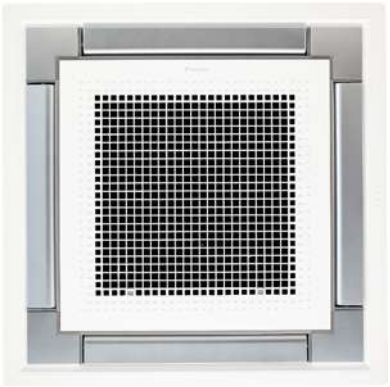
- 600x600 module
- BLDC fan-motor
- Cooling capacity up to 5 kW

Structure & Performance

- 900x900 module
- BLDC fan-motor
- Cooling capacity up to 9.8 kW

Options & Controls

- 230V ON-OFF valve available also as factory mounted
- Compatible with Daikin FCU wired controllers
- The "open protocol" feature allows 3rd party controller and BMS integration through the Modbus protocol
- Different design diffusion panels available



2x2 fully flat design panel



3x3 round flow design panel



STREAMER

New BLDC Hi-Wall Unit

FWT-HT(V)

Performance & Features

- Modern white panel design
- DC fan-motor
- 5 different sizes from 2.4 kW to 5.3 kW
- 230V ON-OFF internal 3-way valve available as factory mounted
- 2-way valve available as supplied loose accessory
- Double filtration stage (Gin-Ion filter + PM2.5 filter)
- Daikin Flash Streamer technology integrated
- Modbus gateway available as accessory for BMS integration
- New wireless and wired controller



Wireless remote controller ARC485B2



Wired remote controller BRC51D67

Shinka

FCU wired remote controller

The perfect balance of comfort, control and efficiency

Whether you're looking to maintain perfect comfort in your home, office, or commercial building, Shinka controller ensures optimal performance for every fan coil units system.









Shinka Touch
(SHINKATOUCHWA/BA)



Shinka Zone
(SHINKAZONEWA/BA)



FCU Control PCB
(FWEDA)



Shinka Sense
(SHINKASENSEWA)



Proximity sensor



Light sensor

- **Shinka Touch:** single-zone control
- **Shinka Zone:** multi-zone control
- **Shinka Sense:** single-zone control with integrated advanced sensors

Benefits

Single-zone controller

This model represents an advanced, efficient, and complete single-zone control system, perfect for maintaining optimal comfort in individual spaces.

- Color Full-Touch display 4.3”
- Embedded Bluetooth connectivity
- FCU complete control with programmable settings (economy/ antifreeze functions, weekly custom schedules, notifications for anomalies or maintenance)
- Multi-sensor integration (light, proximity) available with Shinka Sense model
- Can be integrated within a multi-zone or BMS system through Modbus protocol.



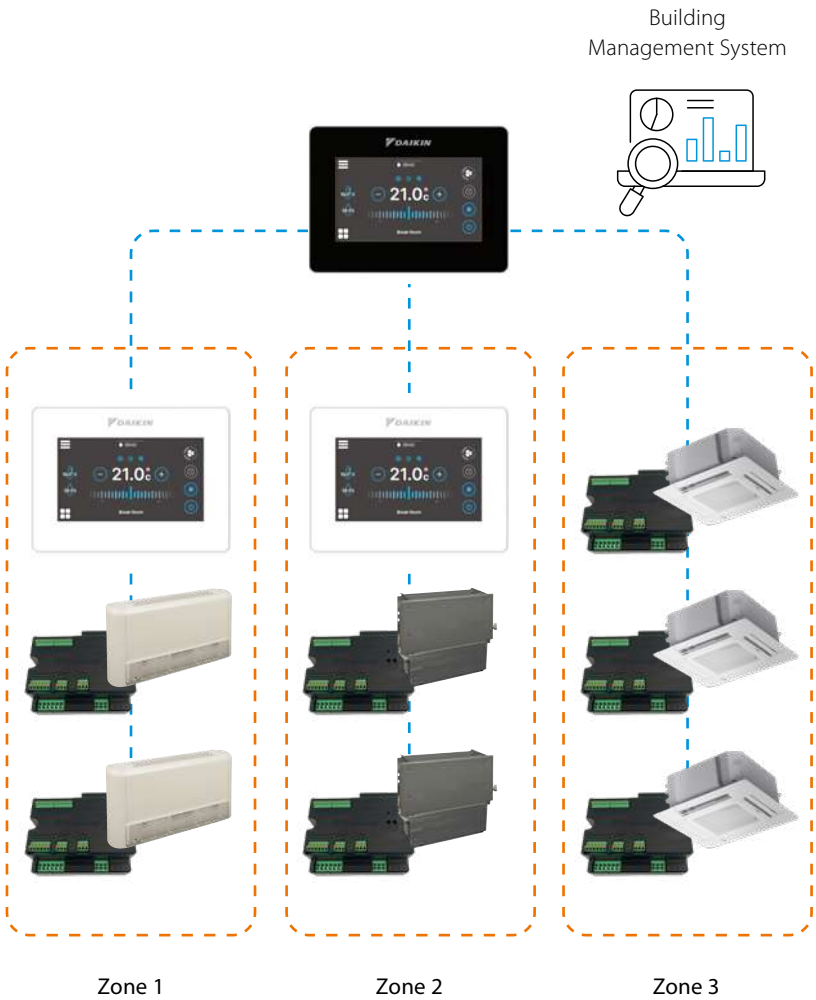
Multi-zone controller

This model represents a versatile, scalable, and highly customizable system, ideal for optimizing comfort and energy efficiency in complex spaces or large buildings.

- Independent temperature control in different areas (zones) of a building
- Ability to set customized temperatures and schedules for each zone
- Access to real-time data for each zone

Commissioning Mobile App

Available for iOS and Android



Products overview

Type	Model	Product name		Fan motor type	Capacity
Cassette	**Round flow cassette** ▪ 900 x 900 cassette ▪ 360° air discharge ensures uniform air flow ▪ Integrated fresh air intake ▪ Easy installation in corners ▪ Standard drain pump with 850 mm lift	**FWC-BT/BF**		BLDC	Cooling: 4.0 - 8.7 kW Heating: 4.8 - 10.6 kW
	4-way blow ceiling mounted cassette ▪ 600 x 600 cassette ▪ Integrated fresh air intake ▪ Horizontal auto swing ▪ Easy installation in corners ▪ Standard drain pump with 750 mm lift	**FWF-BT/BF**		AC	Cooling: 1.4 - 4.9 kW Heating: 2.3 - 5.6 kW
	Open Protocol Cassette ▪ 600 x 600 and 900 x 900 cassette ▪ BLDC motor with low energy consumption up to 75% ▪ 4-way air discharge ▪ Open protocol for control ▪ Condensate drainage pump up to 900 mm lift	**FWI-AT/AF**		BLDC	Cooling: 1.33 - 10.5 kW Heating: 1.49 - 12.2 kW
	Open Protocol Cassette ▪ 600 x 600 and 900 x 900 cassette ▪ ON/OFF 3-speed motor ▪ 4-way air discharge ▪ Open protocol for control ▪ Condensate drainage pump up to 900 mm lift	**FWH-AT/AF**		AC	Cooling: 1.70 - 9.73 kW Heating: 1.97 - 11.1 kW
	Open Protocol Cassette ▪ 600 x 600 cassette ▪ BLDC fan-motor with improved energy efficiency ▪ Possibility to choose the fully-flat design panel ▪ Standard DC drain pump with 835 mm lift ▪ Open protocol for control	**FWF-DT/DF**		BLDC	Cooling: 1.3 - 5.1 kW Heating: 1.56 - 5.74 kW
	Open Protocol Cassette ▪ 900 x 900 cassette ▪ BLDC fan-motor with improved energy efficiency ▪ Possibility to choose the round flow black design panel ▪ Standard DC drain pump with 835 mm lift ▪ Open protocol for control	**FWC-DT/DF**		BLDC	Cooling: 6.3 - 9.6 kW Heating: 6.8 - 10.7 kW
Floor standing units	**Floor standing unit** ▪ For vertical mounting ▪ Continuous air flow regulation and fan speed modulation ▪ Up to 70% energy savings ▪ Low sound levels	**FWZ-AT/AF**		BLDC	Cooling: 2.64 - 10.08 kW Heating: 2.46 - 11.18 kW
	Floor standing unit ▪ For horizontal or vertical concealed mounting ▪ Insulated valve packages, no extra drain pan required ▪ Fast-on connections for electrical options: no tools needed ▪ Easy maintenance	**FWV-DAT/DAF**		AC	Cooling: 1.46 -8.02 kW Heating: 1.90 - 10.03 kW
Flexi type units	**Flexi type unit** ▪ For horizontal or vertical mouting ▪ Continuous air flow regulation and fan speed modulation ▪ Up to 70% energy savings ▪ Low sound levels	**FWR-AT/AF**		BLDC	Cooling: 2.64 - 10.08 kW Heating: 2.46- 11.18 kW
	Flexi type unit ▪ For horizontal or vertical concealed mounting ▪ Insulated valve packages, no extra drain pan required ▪ Fast-on connections for electrical options: no tools needed ▪ Easy maintenance	**FWL-DAT/DAF**		AC	Cooling: 1.46 - 8.02 kW Heating: 1.90 - 10.03 kW
	Concealed flexi type unit ▪ For horizontal or vertical concealed mounting ▪ Continuous air flow regulation and fan speed modulation ▪ Up to 70% energy savings ▪ Low sound levels	**FWS-AT/AF**		BLDC	Cooling: 2.64 - 10.08 kW Heating: 2.46 - 11.18 kW
	Concealed flexi type unit ▪ For horizontal or vertical concealed mounting ▪ Insulated valve packages, no extra drain pan required ▪ Fast-on connections for electrical options: no tools needed ▪ Easy maintenance	**FWM-DAT/DAF**		AC	Cooling: 1.46 -8.02 kW Heating: 1.90 - 10.03 kW
	Concealed flexi type unit ▪ For horizontal or vertical concealed mounting ▪ Available static pressure up to 30 Pa ▪ Easy installation and maintenance ▪ 5/6 speed fan motor ▪ High power air flow	**FWE-DT/DF**		AC	Cooling: 1.2 - 5.6 kW Heating: 1.3 - 6.3 kW

Size

	1	15	2	25	3	35	4	5	6	7	8	9	10	11	12	14	15	16	17	18	20	24
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Products overview

Type	Model	Product name		Fan motor type	Capacity
Ducted units	**Ducted unit with low ESP** ▪ For horizontal concealed mounting ▪ Available static pressure up to 80 Pa ▪ Easy installation and maintenance ▪ 4-speed fan-motor ▪ Improved sound quality	**FWE-FT/FF**		AC	Cooling: 0.9 - 11.5 kW Heating: 1.49 - 12.05 kW
	Ducted unit with medium ESP ▪ For horizontal concealed mounting ▪ Instant adjustment to temperature and relative humidity changes ▪ Available static pressure up to 70 Pa ▪ Low sound levels	**FWP- CT/ CF**		BLDC	Cooling: 1.97 - 8.28 kW Heating: 1.99 - 8.46 kW
	Ducted unit with medium ESP ▪ For horizontal concealed mounting ▪ Available static pressure up to 60 Pa ▪ 7-speed electrical motors (thermal protection on windings) ▪ Easy maintenance	**FWB-CT/CF**		AC	Cooling: 1.90 - 8.12 kW Heating: 1.99 - 8.46 kW
	Ducted unit with high ESP ▪ For horizontal or vertical concealed mounting ▪ Available static pressure up to 70 Pa ▪ Easy maintenance	**FWN-AT/AF**		BLDC	Cooling: 2.83 - 8.75 kW Heating: 3.63 - 18.10 kW
	Ducted unit with high ESP ▪ For horizontal or vertical concealed mounting ▪ Available static pressure from 60 up to 145 Pa ▪ Easy maintenance	**FWD-AT/AF**		AC	Cooling: 3.90 - 18.30 kW Heating: 4.05 - 21.92 kW
Wall mounted unit	**Wall mounted unit** ▪ High aesthetic cabinet design ▪ Optimum air distribution ▪ Easy installation ▪ 3-speed fan motor	**FWT-GT**		AC	Cooling: 2.43 - 5.28 kW Heating: 3.22 - 7.33 kW
	Ducted unit with low ESP ▪ Easy installation and maintenance ▪ BLDC fan-motor with improved energy efficiency ▪ Double filtration stage ▪ Embedded Flash Streamer technology ▪ Internal 3-way ON-OFF valve	**FWT-HT**		BLDC	Cooling: 2.43 - 5.28 kW Heating: 2.73 - 6.24 kW

Size

	1	15	2	25	3	35	4	5	6	7	8	9	10	11	12	14	15	16	17	18	20	24
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Round flow cassette

- BLDC fan motor unit for ceiling mounting. 360° air discharge
- 360° air discharge ensures uniform air flow and temperature distribution
- Modern style decoration panel in white (RAL9010)
- Optional fresh air intake
- Comfortable horizontal air discharge ensures draughtfree operation and prevents ceiling soiling
- Possibility to shut 1 or 2 flaps for easy installation in corners
- Standard drain pump with 850mm lift increases flexibility and installation speed



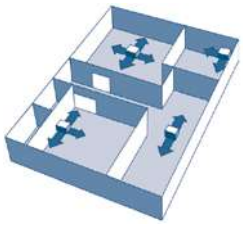
FWC-BT/BF

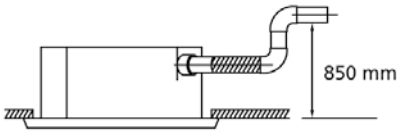


BRC7F532F



BRC1HF





FWC-BT FWC-BF

Indoor unit			FWC-BT/BF	06	07	08	09	06	07	08	09
				2-pipe				4-pipe			
Cooling capacity (standard conditions)	Total capacity	High	kW	5.5	6.1	7.2	8.1	5.9	6.3	7.2	8.3
		Medium	kW	4.7	5.3	5.9	6.8	5.1	5.6	6.2	6.9
		Low	kW	3.9	4.5	4.8	5.4	4.3	4.6	4.8	5.7
	Sensible capacity	High	kW	4.2	4.7	5.7	6.5	4.2	4.6	5.4	6.4
		Medium	kW	3.5	4.0	4.5	5.3	3.6	4.0	4.5	5.2
		Low	kW	2.8	3.3	3.5	4.1	3.1	3.3	3.5	4.0
Heating capacity (standard conditions)	High		kW	6.8	7.7	9.2	10.6	6.9	7.8	9.2	10.4
	Medium		kW	5.8	6.6	7.6	8.8	6.1	6.7	7.6	8.7
	Low		kW	4.8	5.5	5.8	7.0	5.2	5.5	5.8	6.8
Power input	High		kW	0.045	0.054	0.077	0.107	0.046	0.055	0.077	0.107
	Medium		kW	0.040	0.046	0.058	0.076	0.041	0.047	0.059	0.077
	Low		kW	0.034	0.037	0.039	0.045	0.035	0.038	0.040	0.046
FCEER				116	119	113	104	124	120	112	106
FCCOP				143	147	141	137	149	144	138	131
Dimensions	Unit	HeightxWidthxLength	mm	288x840x840							
Weight	Unit		kg	26				29			
Fan	Type			Turbo fan							
	Quantity			1							
	Air flow rate	High	m^3/h	1,068	1,236	1,518	1,776	1,032	1,200	1,476	1,746
		Medium	m^3/h	894	1,038	1,200	1,410	864	1,002	1,164	1,374
		Low	m^3/h	720	834	888	1,044	708	804	852	1,014
Total sound power level	High		dBA	43.0	47.0	53.0	57.0	43.0	47.0	53.0	57.0
	Medium		dBA	36.0	39.0	44.0	49.0	36.0	39.0	44.0	49.0
	Low		dBA	31.0	33.0	36.0	40.0	33.0	36.0		40.0
Sound pressure level	High		dBA	29.0	33.0	39.0	43.0	29.0	33.0	39.0	43.0
	Medium		dBA	24.0	28.0	32.0	37.0	24.0	28.0	32.0	37.0
	Low		dBA	21.0	22.0	24.0	28.0	21.0	22.0	24.0	28.0
Piping connections	Drain	OD	mm	VP25 (External dia.32 / internal dia. 25)							
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/220-240							
Control systems	Infrared remote control			BRC7E532F / BRC7E533F							
	Wired remote control			BRC1HF							

For standard conditions refer to Measuring Conditions table, at the end of this catalogue

4-way blow ceiling mounted cassette

- AC fan motor unit for ceiling mounting. Possibility to shut 1 or 2 flaps
- Modern style decoration panel in white (RAL9010)
- Compact casing (570mm in width and length) enables unit to fit flush into ceilings and match standard architectural modules, without cutting ceiling tiles
- Comfortable horizontal auto swing ensures draughtfree operation and prevents ceiling soiling
- Optional fresh air intake
- Possibility to shut 1 or 2 flaps for easy installation in corners
- Standard drain pump with 750mm lift increases flexibility and installation speed



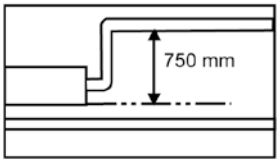
FWF-BT/BF



BRC7E530



BRC1HF



FWF-BT FWF-BF

Indoor unit			FWF-BT/BF	02	03	04	05	02	03	04	05
				2-pipe				4-pipe			
Cooling capacity (standard conditions)	Total capacity	High	kW	1.7	3.0	4.0	4.9	1.8	2.9	3.8	4.6
		Medium	kW	1.5	2.7	3.1	4.0	1.5	2.4	3.1	3.8
		Low	kW	1.3	2.4		2.8	1.3	1.6		2.6
	Sensible capacity	High	kW	1.4	2.0	2.7	3.5	1.5	1.8	2.5	3.2
		Medium	kW	1.2	1.7	2.0	2.7	1.2	1.5	1.9	2.5
		Low	kW	1.0	1.4		1.8		1.0		1.6
Heating capacity (standard conditions)		High	kW	2.4	3.3	4.5	5.6	3.3	3.6	4.7	5.7
		Medium	kW	2.1	2.9	3.5	4.4	2.9	3.1	3.7	4.7
		Low	kW	1.9	2.7		3.0	2.4	2.6		3.2
Power input		High	kW	0.074		0.090	0.118	0.074		0.094	0.121
		Medium	kW	0.067		0.070	0.089	0.067	0.062	0.074	0.093
		Low	kW	0.060		0.055	0.062	0.060	0.055		0.066
FCEER				22	40	44	45	22	33	34	40
FCCOP				32	45	49		41	48		49
Dimensions	Unit	HeightxWidthxLength	mm	285x575x575							
Weight	Unit		kg	19				20			
Fan	Type			Turbo fan							
	Quantity			1							
	Air flow rate	High	m^3/h	456	468	660	876	468	438	618	822
		Medium	m^3/h	384	390	486	648	390	366	456	612
		Low	m^3/h	300	318		420	318	300		390
Total sound power level	High		dBA	44.0		50.0	55.0	44.0	46.0	52.0	57.0
	Medium		dBA	40.0		44.0	49.0	40.0	42.0	46.0	51.0
	Low		dBA	36.0	38.0		42.0	36.0	38.0	41.0	44.0
Sound pressure level	High		dBA	31.0		40.0	45.0	31.0	33.0	42.0	47.0
	Medium		dBA	27.0		33.0	39.0	27.0	29.0	35.0	41.0
	Low		dBA	26.0			30.0	26.0	27.0		32.0
Piping connections	Drain	OD	mm	VP20 (External dia.26 / Internal dia. 20)							
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/220-440							
Control systems	Infrared remote control			BRC7E530 / BRC7E531							
	Wired remote control			BRC1HF							

For standard conditions refer to the Measuring Conditions table, at the end of this catalogue

Open protocol 2x2 Cassette

- BLDC fan motor unit for ceiling mounting
- 4-way air discharge
- Compact casing (570mm in width and length) enables unit to fit flush into ceilings and match standard architectural modules, without cutting ceiling tiles
- Modern ABS or fully-flat design air intake grille
- Reliability and sturdiness in a compact design
- Condensate drainage pump up to 835mm lift
- Wide range of controllers with the open protocol
- Availability of 2-way or 3-way valves with ON-OFF actuator factory mounted



FWF-DT/DF



FWEC10



FWEC3A



FWEDA



SHINKA TOUCH/SHINKA SENSE/SHINKA ZONE

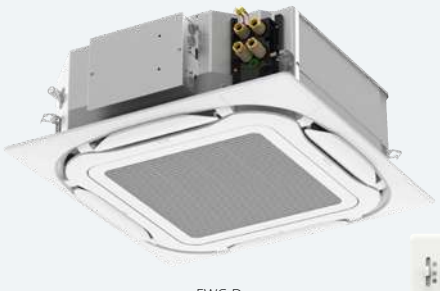
FWF-D

Indoor Unit				FWF	02DF	02DT	03DT	03DF	04DF	04DT	05DT	05DF
Cooling capacity (standard conditions)	Total capacity 2-pipe	High	kW		-	2.00	3.00	-		4.07	5.10	-
		Medium	kW		-	1.67	2.78	-		3.41	4.16	-
		Low	kW		-	1.30	2.37	-		2.65	2.93	-
	Total capacity 4-pipe	High	kW		2.00	-		3.00	4.00	-		5.02
		Medium	kW		1.71	-		2.77	3.33	-		4.00
		Low	kW		1.44	-		2.30	2.58	-		2.64
	Sensible capacity 2-pipe	High	kW		-	1.76	2.31	-		3.01	3.88	-
		Medium	kW		-	1.43	2.08	-		2.49	3.08	-
		Low	kW		-	1.09	1.75	-		1.91	2.11	-
	Sensible capacity 4-pipe	High	kW		1.76	-		2.19	2.88	-		3.67
		Medium	kW		1.46	-		1.99	2.33	-		2.88
		Low	kW		1.20	-		1.61	1.78	-		1.85
	Latent capacity 2-pipe	High	kW		-	0.24	0.69	-		1.06	1.22	-
	Latent capacity 4-pipe	High	kW		0.24	-		0.81	1.12	-		1.35
Heating capacity (standard conditions)	Capacity 2-pipe	High	kW		-	2.54	3.30	-		4.26	5.74	-
		Medium	kW		-	2.05	2.96	-		3.48	4.34	-
		Low	kW		-	1.56	2.44	-		2.69	2.95	-
	Capacity 4-pipe	High	kW		3.31	-		4.15	4.59	-		5.64
		Medium	kW		2.77	-		3.61	3.75	-		4.32
		Low	kW		2.23	-		2.78	2.90	-		2.99
Power input			kW		0.017	0.018	0.019		0.024		0.045	0.047
			kW		0.01			0.02		0.01	0.02	
FCEER					129	121	188	156	174	180	120	130
FCCOP					220	156	197	193	198	194	128	174
FCEER CLASS					B		A			B		
FCCOP CLASS					B	C		B			C	B
Dimensions	Unit	HeightxWidthxDepth	mm		260x642x575							
Weight	Unit		kg		16.0	14.5	15.5	17.0		15.5		17.0
Fan	Type				Turbo fan							
	Quantity				1							
	Air flow rate	High	m^3/h		477	498	516	534	612	623	860	847
		Medium	m^3/h		389	388	455	463	487	496	634	607
		Low	m^3/h		301	278	363	356	361	369	408	367
Total sound power level	High		dBA		41.0		42.0	44.0	48.0	47.0	54.0	56.0
	Medium		dBA		37.0		39.0	40.0	43.0	41.0	46.0	48.0
	Low		dBA		34.0	33.0	36.0		38.0	36.0	39.0	40.0
Sound pressure level	High		dBA		27.0		28.0	30.0	34.0	33.0	40.0	42.0
	Medium		dBA		23.0		25.0	26.0	29.0	27.0	32.0	34.0
	Low		dBA		20.0	19.0	22.0		24.0	22.0	25.0	26.0
Water flow	Cooling	High	l/h		345	344	515	516	687	699	878	864
		Medium	l/h		294	286	477	476	573	586	716	687
		Low	l/h		248	224	407	396	444	455	504	455
	Heating	High	l/h		285	437	568	357	395	733	987	485
		Medium	l/h		238	353	508	310	322	599	747	371
		Low	l/h		192	269	419	239	249	463	507	257
Piping connections	Drain	OD	mm		VP20 (External dia.26 / Internal dia. 20)							
Power supply	Phase/Frequency/Voltage		Hz/V		1~/50/230							

Cooling: air 27°CDB, 19°CWB; entering water 7°C; leaving water 12°C | Heating: 2 pipe: air 20°CDB, 15°CWB; entering water 45°C; leaving water 40°C | Heating: 4 pipe: air 20°CDB, 15°CWB; entering water 65°C; leaving water 55°C | The unit is not pre-charged. A minimal rest charge is present related to factory quality inspection | Airflow value measurements are performed at 20°C(DB)/15°C(WB) condition.

Open protocol 3x3 Cassette

- BLDC fan motor for a precise control of operation
- 4-way air discharge
- Reduced energy consumption thanks to specially developed heat exchanger, DC fan motor and drain pump
- Optional fresh air intake
- Open protocol unit allows controller integration
- Standard drain pump with 835mm lift increases flexibility and installation speed
- Unit fits into standard 900x900 architectural modules
- Widest choice ever in decoration panels: designer panels in white (RAL9010) and black (RAL9005) and standard panels in white (RAL9010).
- Availability of 2-way or 3-way valves with ON-OFF actuator factory mounted



FWC-D



FWEC10



FWEC3A



FWEDA



SHINKA TOUCH/SHINKA SENSE/SHINKA ZONE

FWC-DF FWC-DT

Indoor Unit			FWC/FWC	06DF	07DF	08DF	09DF	06DT	07DT	08DT	09DT
Cooling capacity (standard conditions)	Total capacity 2-pipe	High	kW			-		6.34	7.53	8.7	9.66
		Medium	kW			-		4.98	5.74	6.44	6.89
		Low	kW			-		4.06	4.51	4.81	4.88
	Total capacity 4-pipe	High	kW	6.01	7.15	8.41	9.58		-		
		Medium	kW	4.76	5.45	6.16	6.69		-		
		Low	kW	3.96	4.35	4.68	4.85		-		
	Sensible capacity 2-pipe	High	kW			-		4.9	5.87	6.87	7.84
		Medium	kW			-		3.8	4.42	5.02	5.41
		Low	kW			-		3.04	3.38	3.63	3.69
	Sensible capacity 4-pipe	High	kW	4.58	5.58	6.66	7.79		-		
		Medium	kW	3.59	4.17	4.75	5.28		-		
		Low	kW	2.93	3.26	3.52	3.64		-		
	Latent capacity 2-pipe	High	kW			-		1.44	1.66	1.83	1.82
	Latent capacity 4-pipe	High	kW	1.43	1.57	1.75	1.79		-		
Heating capacity (standard conditions)	Capacity 2-pipe	High	kW			-		6.79	8.14	9.51	10.7
		Medium	kW			-		5.2	6.05	6.83	7.36
		Low	kW			-		4.15	4.62	4.94	5.02
	Capacity 4-pipe	High	kW	7.47	8.82	10.21	11.47		-		
		Medium	kW	5.9	6.74	7.52	8.08		-		
		Low	kW	4.87	5.34	5.65	5.77		-		
Power input			kW	0.043	0.069	0.102	0.165	0.045	0.071	0.104	0.167
			kW		0.02		0.03	0.02		0.03	
FCEER				182	174	160	137	174	170	156	133
FCCOP				225	216	196	167	179	177	164	141
FCEER CLASS				B							
FCCOP CLASS				B							C
Dimensions	Unit	HeightxWidthxDepth	mm	287x837x921							
Weight	Unit		kg	27				25			
Fan	Air flow rate	High	m^3/h	1,051	1,296	1,563	1,816	1,080	1,336	1,615	1,881
		Medium	m^3/h	782	920	1,053	1,143	798	943	1,081	1,176
		Low	m^3/h	614	686	734	743	621	697	747	757
Total sound power level	High		dBA	46	52	57	62	46	52	56	61
	Medium		dBA	39	43	46	50	38	42	46	49
	Low		dBA	35	36	37	40	35		36	39
Sound pressure level	High		dBA	33	39	44	49	33	39	43	48
	Medium		dBA	26	30	33	37	25	29	33	36
Sound pressure level	Low		dBA	22	23	24	27	22		23	26
Water flow	Cooling	High	l/h	1,090	1,295	1,496	1,647	1,090	1,295	1,496	1,661
		Medium	l/h	856	987	1,107	1,150	856	987	1,107	1,184
		Low	l/h	698	776	827	833	698	776	827	839
	Heating	High	l/h	642	759	877	986	1,167	1,400	1,635	1,841
		Medium	l/h	508	580	646	695	894	1,040	1,175	1,266
		Low	l/h	419	459	486	496	713	794	850	863
Piping connections	Drain	OD	mm	VP25 (External dia.32; internal dia. 25)							
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50 /230							

Cooling: air 27°CDB, 19°CWB; entering water 7°C; leaving water 12°C | Heating: 2 pipe: air 20°CDB, 15°CWB; entering water 45°C; leaving water 40°C | Heating: 4 pipe: air 20°CDB, 15°CWB; entering water 65°C; leaving water 55°C | Do not let water of less than 5°C or more than 90°C enter the unit, this may damage the unit | Airflow: 20°C DB, 15°C WB; 230V 50Hz 0Pa

Open protocol Cassette

- BLDC fan motor for a precise control of operation
- 4-way air discharge
- Two dimensional frames (600x600mm and 900x900mm)
- Modern style ABS air intake diffusion grille
- Low operating sound level
- Up to 70% energy savings with brushless DC motor technology compared to traditional technology
- Condensate drainage pump up to 900mm lift
- Available with mounted control board or in naked version to be combinable with any controller
- Reduced installation and commissioning time with the availability of 2-way or 3-way valves, with ON-OFF or modulating actuator, and also pressure-independent control valves



FWI-AT/AF



FWEC10



FWEC3A



FWEDA



SHINKA TOUCH/SHINKA SENSE/SHINKA ZONE

FWI-AT FWI-AF

Indoor unit			FWI-AT/FWI-AF	02	03	04	06	07	08	02	04	06	08
				2-pipe						4-pipe			
Cooling capacity (standard conditions)	Total capacity	High	kW	2.63	4.39	5.23	6.39	9.04	10.5	2.6	3.61	6.61	9.5
		Medium	kW	2.24	3.4	3.95	5.36	7.26	8.37	2.18	2.8	5.34	7.62
		Low	kW	1.93	2.68	2.76	4.8	5.92	6.7	1.85	2.05	4.61	6.09
	Sensible capacity	High	kW	2.2	3.41	4.11	4.75	6.78	7.97	2.23	3.31	5.03	7.56
		Medium	kW	1.81	2.54	2.96	3.92	5.31	6.15	1.79	2.38	3.94	5.82
		Low	kW	1.51	1.94	1.98	3.8	4.24	4.8	1.46	1.62	3.34	4.5
Heating capacity (standard conditions)	High		kW	3.25	4.58	5.55	7.30	10.20	12.20	3.86	4.98	9.53	12.90
	Medium		kW	2.70	3.48	4.09	6.00	7.99	9.35	3.34	4.06	7.96	10.80
	Low		kW	2.27	2.69	2.77	5.50	6.33	7.23	2.90	3.14	7.01	8.96
Power input	High		kW	0.018	0.037	0.067	0.036	0.067	0.15	0.018	0.067	0.036	0.15
	Medium		kW	0.01	0.015	0.022	0.018	0.036	0.06	0.01	0.022	0.018	0.06
	Low		kW	0.007	0.009	0.009	0.013	0.018	0.025	0.007	0.009	0.014	0.025
Dimensions	Unit	Height	mm	298			350			298		350	
		Width	mm	577			793			577		793	
		Depth	mm	577			793			577		793	
Weight	Unit		kg	23			43			23		43	
Casing	Material			Galvanised steel									
Decoration panel	Dimensions	Height	mm	41			75			41		75	
		Width	mm	730			860			730		860	
		Depth	mm	730			860			730		860	
		Weight	kg	2.5			5			2.5		5	
Air Filter	Type			Honeycomb polypropylene									
Fan	Type			Backward Centrifugal									
	Quantity			1									
	Air flow rate	High	m^3/h	583	796	980	1,276	1,554	1,831	610	982	1,137	1,823
		Medium	m^3/h	454	551	650	978	1,143	1,321	460	643	841	1,314
		Low	m^3/h	397	397	397	843	864	976	356	395	687	956
Total sound power level	High		dBA	46	54	61	45	53	58	46	61	45	58
	Medium		dBA	40	44	49	39	45	50	40	49	39	50
	Low		dBA	35	37	38	35	39	43	35	38	35	43
Sound pressure level	High		dBA	38	46	61	37	45	50	46	61	45	58
	Medium		dBA	33	36	49	31	37	42	40	49	39	50
	Low		dBA	27	29	38	27	31	35		38	35	43
Water flow	Cooling	High	l/h	452	754	898	1,097	1,545	1,805	447	620	1,135	1,631
		Medium	l/h	385	584	687	921	1,245	1,436	374	480	917	1,307
		Low	l/h	331	460	473	833	1,015	1,150	317	352	792	1,045
	Heating	High	l/h	565	797	965	1,269	1,779	2,116	338	435	834	1,133
		Medium	l/h	470	605	711	1,043	1,390	1,625	292	356	697	947
		Low	l/h	395	468	481	953	1,100	1,257	254	275	613	785
Allowed water temperature	Cooling	Min	°C	5									
	Heating	Max	°C	70									
Piping connections	Water	Inlet		1/2"			3/4"			1/2"		3/4"	
		Outlet		1/2"			3/4"			1/2"		3/4"	
	Drain	OD	mm	10									
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230									
Maximum absorbed current			A	0.64			1.20			0.64		1.20	
Control systems	Wired remote control			FWEC3A/FWEDA/SHINKA/FWEC10									

For standard conditions refer to the Measuring Conditions table, at the end of this catalogue

Open protocol Cassette

- AC fan motor unit for ceiling mounting
- 4-way air discharge
- Two dimensional frames (600x600mm and 900x900mm)
- Modern style ABS air intake diffusion grille
- Reliability and sturdiness in a compact design
- Condensate drainage pump up to 900mm lift
- Available with mounted control board or in naked version to be combinable with any controller
- Reduced installation and commissioning time with the availability of 2-way or 3-way valves with ON-OFF or modulating actuator



FWH-AT/AF



FWEC2T/4T



FWEC1,2,3A



FWEDA



SHINKA TOUCH/SHINKA SENSE/SHINKA ZONE

FWH-AT FWH-AF

Indoor unit			FWH-AT/FWH-AF	02	03	04	06	07	08	02	03	04	06	08
				2-pipe						4-pipe				
Cooling capacity (standard conditions)	Total capacity	High	kW	2.53	4.31	5	7.01	8.24	9.73	2.35	3.38	3.62	7.45	9
		Medium	kW	1.97	3.55	4.61	5.36	6.11	8.61	1.85	2.83	3.38	6.6	8.48
		Low	kW	1.7	2.39	3.4	4.64	5.16	6.34	1.56	2.01	2.58	4.73	5.83
	Sensible capacity	High	kW	2.14	3.18	3.79	5.29	6.1	7.35	1.94	3.38	3.02	5.81	6.98
		Medium	kW	1.6	2.53	3.44	3.99	4.37	6.4	1.49	2.22	2.77	5.04	6.56
		Low	kW	1.33	1.66	2.43	3.42	3.68	4.59	1.24	1.49	2	3.47	4.29
Heating capacity (standard conditions)	High		kW	3.1	4.3	5.35	8.17	9.18	11.1	3.55	4.22	4.81	10.6	12.4
	Medium		kW	2.33	3.44	4.92	6.06	6.53	9.53	2.88	3.62	4.54	9.6	11.7
	Low		kW	1.97	2.29	3.49	5.16	5.22	6.71	2.53	2.75	3.67	7.20	8.64
Power input	High		kW	0.04	0.05	0.09	0.11		0.15	0.04	0.05	0.09	0.11	0.15
	Medium		kW	0.02	0.04	0.07	0.06		0.11	0.02	0.04	0.07	0.06	0.11
	Low		kW	0.02	0.03	0.06	0.05		0.06	0.02	0.03	0.06	0.05	0.06
Dimensions	Unit	Height	mm	298			350			298			350	
		Width	mm	577			793			577			793	
		Depth	mm	577			793			577			793	
Weight	Unit		kg	23			43			23			43	
Casing	Material			Galvanised steel										
Decoration panel	Dimensions	Height	mm	41			75			41			75	
		Width	mm	730			860			730			860	
		Depth	mm	730			860			730			860	
		Weight	kg	2.5			5			2.5			5	
Air Filter	Type			Honeycomb polypropylene										
Fan	Type			Backward Centrifugal										
	Quantity			1										
	Air flow rate	High	m^3/h	557	640	805	1,494	1,380	1,651	533	640	805	1,380	1,651
		Medium	m^3/h	379	487	717	997	902	1,380	366	487	717	1,147	1,544
		Low	m^3/h	297	306	479	801	718	902	289	306	479	718	902
Total sound power level	High		dBA	45	50	58	51		56	45	50	58	51	56
	Medium		dBA	37	44	55	40		51	37	44	55	40	51
	Low		dBA	33	40	47	35		40	33	40	47	35	40
Sound pressure level	High		dBA	37	42	50	43		48	37	42	50	43	48
	Medium		dBA	29	36	47	32		43	29	36	47	32	43
	Low		dBA	25	32	39	27		32	25	32	39	27	32
Water flow	Cooling	High	l/h	441	749	873	1,223	1,434	1,696	410	589	637	1,299	1,571
		Medium	l/h	342	616	803	930	1,060	1,498	321	493	593	1,148	1,477
		Low	l/h	295	416	593	805	893	1,097	271	351	453	822	1,010
	Heating	High	l/h	539	747	930	1,420	1,596	1,930	311	369	421	929	1,083
		Medium	l/h	404	597	855	1,053	1,136	1,656	258	317	398	840	1,026
		Low	l/h	342	399	607	897	908	1,167	222	241	322	634	757
Allowed water temperature	Cooling	Min	°C	5										
	Heating	Max	°C	70										
Piping connections	Water	Inlet		1/2"			3/4"			1/2"			3/4"	
		Outlet		1/2"			3/4"			1/2"			3/4"	
	Drain	OD	mm	10										
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230										
Maximum absorbed current			A	0.2		0.4	0.7			0.2		0.4	0.7	
Control systems	Wired remote control			FWEC3A/FWEDA/SHINKA/FWEC2T/4T										

For standard conditions refer to the Measuring Conditions table, at the end of this catalogue

Floor standing unit

- BLDC fan motor unit for vertical mounting.
  Continuous air flow regulation and fan speed modulation
- Up to 70% energy savings with brushless DC motor technology compared to traditional technology
- Instant adjustment to temperature and relative humidity changes
- Low operating sound level
- Highly flexible solutions: multiple sizes, piping topologies and connection valves
- Requires very little installation space



FWZ-AT/AF



FWEC10



FWEC3A



FWEDA



SHINKA TOUCH/SHINKA SENSE/SHINKA ZONE

FWZ-AT FWZ-AF

Indoor unit			FWZ-AT/AF	02	03	06	08	02	03	06	08
				2-pipe				4-pipe			
Cooling capacity (standard conditions)	Total capacity	High	kW	1.94	2.91	4.48	7.93	1.77	2.86	4.64	7.79
		Medium	kW	1.69	2.37	3.64	6.2	1.55	2.32	3.79	6.12
		Low	kW	1.35	1.75	2.99	4.1	1.25	1.72	3.10	4.06
	Sensible capacity	High	kW	1.49	2.09	3.62	5.87	1.44	2.06	3.54	5.76
		Medium	kW	1.30	1.69	2.90	4.59	1.21	1.65	2.85	4.54
		Low	kW	1.04	1.25	2.31	3.04	0.97	1.23	2.27	3.01
Heating capacity (standard conditions)	High		kW	2.15	2.94	4.88	8.37	1.76	2.68	4.64	7.35
	Medium		kW	1.81	2.37	4.11	6.53	1.56	2.31	4.07	6.29
	Low		kW	1.50	1.76	3.36	4.39	1.36	1.88	3.55	4.85
Power input	High		kW	0.019	0.016	0.033	0.087	0.019	0.016	0.033	0.087
	Medium		kW	0.01		0.02	0.038	0.01		0.02	0.038
	Low		kW	0.01			0.013	0.01			0.013
FCEER				B	A			B	A		B
FCCOP				B	A			B	A		B
Dimensions	Unit	HeightxWidthxLength	mm	564x774x226	564x984x226	564x1,190x226	564x1,404x251	564x774x226	564x984x226	564x1,190x226	564x1,404x251
Weight	Unit		kg	20.6	26.7	32.3	41.6	20.6	26.7	32.3	41.6
Casing	Colour			White - RAL9010							
Air filter	Type			Polypropylene net							
Fan	Type			Centrifugal							
	Quantity			1	2			1	2		
	Air flow rate	High	m^3/h	344	442	785	1,393	327	431	763	1,362
		Medium	m^3/h	271	341	605	1,022	261	332	593	1,007
		Low	m^3/h	211	241	470	642	205	237	460	636
Total sound power level	High		dBA	50.0	48.0	56.0	67.0	50.0	47.0	58.0	66.0
	Medium		dBA	44.0	42.0	49.0	60.0	44.0	41.0	53.0	58.0
	Low		dBA	40.0	36.0	43.0	49.0	38.0	33.0	48.0	
Sound pressure level	High		dBA	45.0	43.0	51.0	62.0	45.0	42.0	54.0	61.0
	Medium		dBA	39.0	37.0	44.0	55.0	39.0	36.0	48.0	53.0
	Low		dBA	35.0	31.0	38.0	44.0	33.0	28.0	43.0	
Electric heater	Power input (Optional)		kW	1.5	1.6	2.0	-	1.5	1.6	2.0	-
Piping connections	Drain	OD	mm	16							
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230							
Control systems	Wired remote control			FWEC3A/FWEDA/SHINKA/FWEC10							

For standard conditions refer to the Measuring Conditions table, at the end of this catalogue

Floor standing unit

- AC fan motor unit for vertical mounting
- Quick fixing system for wall mounted installation
- Pre-assembled 3-way/4-port on/off valves are available
- Valve packages are insulated, no extra drain pan required
- Valve packages contain balancing valves and sensor pocket
- Fast-on connections for electrical options: no tools needed
- The air filter can easily be removed for cleaning
- Electric heater: no relay up to 2kW capacity
- Electric heater: equipped with two overheat cut-out thermostats



FWV-DAT/DAF



FWEC2T/4T



FWEC1,2,3A



FWEDA



ECFWMB6



SHINKA TOUCH/SHINKA SENSE/SHINKA ZONE

FWV-DAT FWV-DAF

Indoor unit			FWV-DAT/DAF	01	15	02	25	03	35	04	06	08	10	01	15	02	25	03	35	04	06	08	10
				2-pipe										4-pipe									
Cooling capacity (standard conditions)	Total capacity	High	kW	1.50	1.69	1.91	2.36	2.87	3.45	4.23	4.41	6.53	7.78	1.42	1.64	1.74	2.32	2.81	3.36	4.16	4.57	6.46	7.64
		Medium	kW	1.21	1.48	1.66	1.99	2.34	2.58	3.21	3.59	5.14	6.07	1.11	1.44	1.52	1.96	2.29	2.54	3.17	3.74	5.10	5.99
		Low	kW	1.02	1.24	1.34	1.57	1.73	1.94	2.47	2.95	3.88	4.00	0.97	1.22	1.24	1.55	1.70	1.92	2.44	3.06	3.84	3.96
	Sensible capacity	High	kW	1.16	1.25	1.37	1.82	2.05	2.69	3.05	3.55	4.73	5.72	1.10	1.22	1.41	1.79	2.01	2.61	2.99	3.47	4.67	5.61
		Medium	kW	0.94	1.10	1.20	1.53	1.66	1.99	2.39	2.85	3.70	4.46	0.87	1.07	1.18	1.50	1.62	1.96	2.36	2.80	3.67	4.40
		Low	kW	0.77	0.93	0.98	1.15	1.23	1.41	1.76	2.27	2.75	2.94	0.73	0.91	0.96	1.14	1.21	1.40	1.74	2.23	2.73	2.91
Heating capacity (standard conditions)	High		kW	1.82	1.84	2.15	2.70	2.94	4.05	4.24	4.98	6.49	8.37	1.66	1.76		2.53	2.68	4.20	3.82	4.64	6.97	7.35
	Medium		kW	1.48	1.72	1.81	2.26	2.37	3.13	3.24	4.08	5.17	6.53	1.49	1.56		2.18	2.31	3.47	3.22	4.07	6.02	6.29
	Low		kW	1.21	1.45	1.50	1.74	1.76	2.39	2.47	3.31	3.97	4.39	1.31	1.36		1.78	1.88	2.82	2.73	3.55	5.02	4.85
Power input	High		kW	0.037	0.053		0.057	0.056	0.065	0.098		0.182	0.244	0.037	0.053		0.057	0.056	0.065	0.098		0.182	0.244
	Medium		kW	0.03	0.04			0.05	0.06	0.07	0.13	0.17		0.03	0.04			0.05	0.06	0.07	0.13	0.17	
	Low		kW	0.02	0.03	0.02	0.03		0.04	0.05	0.09	0.11		0.02	0.03	0.02	0.03		0.04	0.05	0.09	0.11	
Dimensions	Unit	HeightxWidthxLength	mm	564x774x226			564x984x226		564x1,190x226			564x1,400x251		564x774x226			564x984x226		564x1,190x226			564x1,400x251	
Weight	Unit		kg	19.7		20.6	25.5	26.7	31.0	30.4	32.3	41.4	41.6	19.7		20.6	25.5	26.7	31.0	30.4	32.3	41.4	41.6
Casing	Colour			White - RAL9010																			
Air filter	Type			Polypropylene net																			
Fan	Type			Centrifugal																			
	Quantity			1			2							1			2						
	Air flow rate	High	m^3/h	319	344		442	640	706	785	1,011	1,393		307	330	327	432	431	628	690	763	998	1,362
		Medium	m^3/h	233	271		341	450	497	605	771	1,022		225	261		334	332	444	490	593	765	1,007
		Low	m^3/h	178	211		241	320	361	470	570	642		174	205		238	237	316	356	460	565	636
Total sound power level	High		dBA	47.0	49.0	50.0	48.0	52.0	53.0	56.0	61.0	67.0		45.0	49.0	50.0	48.0	47.0	53.0	56.0	58.0	60.0	66.0
	Medium		dBA	42.0	44.0		43.0	42.0	43.0	49.0	54.0	60.0		39.0	44.0		43.0	41.0	45.0	46.0	53.0	54.0	58.0
	Low		dBA	37.0	38.0	40.0	35.0	36.0	35.0	43.0	47.0	49.0		33.0	40.0	38.0	34.0	33.0	36.0	39.0	48.0	46.0	48.0
Sound pressure level	High		dBA	42.0	44.0	45.0	43.0	47.0	48.0	51.0	56.0	62.0		40.0	44.0	45.0	43.0	42.0	46.0	51.0	54.0	55.0	61.0
	Medium		dBA	37.0	39.0		38.0	37.0	38.0	44.0	49.0	55.0		34.0	39.0		38.0	36.0	38.0	41.0	48.0	49.0	53.0
	Low		dBA	32.0	33.0	35.0	30.0	31.0	30.0	38.0	42.0	44.0		28.0	33.0		29.0	28.0	29.0	32.0	43.0	41.0	43.0
Electric heater	Power input (Optional)		kW	1.0	1.5		1.6		2.0		3.0			1.0	1.5		1.6		2.0			3.0	
Piping connections	Drain	OD	mm	16																			
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230																			
Control systems	Wired remote control			FWEC3A/FWEDA/SHINKA/FWEC2T/4T																			

For standard conditions refer to the Measuring Conditions table, at the end of this catalogue

Flexi type unit

- BLDC fan motor unit for horizontal or vertical mounting. Continuous air flow regulation and fan speed modulation
- For wall or ceiling mounted installation: ideal solution for spaces with no false ceilings
- Up to 70% energy savings with brushless DC motor technology compared to traditional technology
- Instant adjustment to temperature and relative humidity changes
- Low operating sound level
- Highly flexible solutions: multiple sizes, piping topologies and connection valves
- Requires very little installation space



FWR-AT/AF



FWEC10



FWEC3A



FWEDA



SHINKA TOUCH/SHINKA SENSE/SHINKA ZONE

FWR-AT FWR-AF

Indoor unit			FWR-AT/AF	02	03	06	08	02	03	06	08
				2-pipe				4-pipe			
Cooling capacity (standard conditions)	Total capacity	High	kW	1.94	2.91	4.48	7.93	1.77	2.86	4.64	7.79
		Medium	kW	1.69	2.37	3.64	6.20	1.55	2.32	3.79	6.12
		Low	kW	1.35	1.75	2.99	4.10	1.25	1.72	3.10	4.06
	Sensible capacity	High	kW	1.49	2.09	3.62	5.87	1.44	2.06	3.54	5.76
		Medium	kW	1.30	1.69	2.90	4.59	1.21	1.65	2.85	4.54
		Low	kW	1.04	1.25	2.31	3.04	0.97	1.23	2.27	3.01
Heating capacity (standard conditions)	High		kW	2.15	2.94	4.88	8.37	1.76	2.68	4.64	7.35
	Medium		kW	1.81	2.37	4.11	6.53	1.56	2.31	4.07	6.29
	Low		kW	1.50	1.76	3.36	4.39	1.36	1.88	3.55	4.85
Power input	High		kW	0.019	0.016	0.033	0.087	0.019	0.016	0.033	0.087
	Medium		kW	0.01		0.02	0.038	0.01		0.02	0.038
	Low		kW	0.01			0.013	0.01			0.013
FCEER				B	A			B	A		B
FCCOP				B	A			B	A		B
Dimensions	Unit	HeightxWidthxLength	mm	564x774x246	564x984x246	564x1,190x246	564x1,404x271	564x774x246	564x984x246	564x1,190x246	564x1,404x271
Weight	Unit		kg	21.2	27.5	33.6	43.1	21.2	27.5	33.6	43.1
Casing	Colour			White - RAL9010							
Air filter	Type			Polypropylene net							
Fan	Type			Centrifugal							
	Quantity			1	2			1	2		
	Air flow rate	High	m^3/h	344	442	785	1,393	327	431	763	1,362
		Medium	m^3/h	271	341	605	1,022	261	332	593	1,007
		Low	m^3/h	211	241	470	642	205	237	460	636
Total sound power level	High		dBA	50.0	48.0	56.0	67.0	50.0	47.0	58.0	66.0
	Medium		dBA	44.0	42.0	49.0	60.0	44.0	41.0	53.0	58.0
	Low		dBA	40.0	36.0	43.0	49.0	38.0	33.0	48.0	
Sound pressure level	High		dBA	45.0	43.0	51.0	62.0	45.0	42.0	54.0	61.0
	Medium		dBA	39.0	37.0	44.0	55.0	39.0	36.0	48.0	53.0
	Low		dBA	35.0	31.0	38.0	44.0	33.0	28.0	43.0	
Electric heater	Power input (Optional)		kW	1.5	1.6	2.0	-	1.5	1.6	2.0	-
Piping connections	Drain	OD	mm	16							
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230							
Control systems	Wired remote control			FWEC3A/FWEDA/SHINKA/FWEC10							

For standard conditions refer to the Measuring Conditions table, at the end of this catalogue

Flexi type unit

- AC fan motor unit for horizontal or vertical mounting
- Quick fixing system for wall or ceiling mounted installation
- Pre-assembled 3-way/4-port on/off valves are available
- Valve packages are insulated, no extra drain pan required
- Valve packages contain balancing valves and sensor pocket
- Fast-on connections for electrical options: no tools needed
- The air filter can easily be removed for cleaning
- Electric heater: no relay up to 2kW capacity
- Electric heater: equipped with two overheat cut-out thermostats



FWL-DAT/DAF



FWEC2T/4T



FWEC1,2,3A



FWEDA



ECFWMB6



SHINKA TOUCH/SHINKA SENSE/SHINKA ZONE

FWL-DAT FWL-DAF

Indoor unit			FWL-DAT/DAF	01	15	02	25	03	35	04	06	08	10	01	15	02	25	03	35	04	06	08	10
				2-pipe										4-pipe									
Cooling capacity (standard conditions)	Total capacity	High	kW	1.50	1.69	1.91	2.36	2.87	3.45	4.23	4.41	6.53	7.78	1.42	1.64	1.74	2.32	2.81	3.36	4.16	4.57	6.46	7.64
		Medium	kW	1.21	1.48	1.66	1.99	2.34	2.58	3.21	3.59	5.14	6.07	1.11	1.44	1.52	1.96	2.29	2.54	3.17	3.74	5.10	5.99
		Low	kW	1.02	1.24	1.34	1.57	1.73	1.94	2.47	2.95	3.88	4.00	0.97	1.22	1.24	1.55	1.70	1.92	2.44	3.06	3.84	3.96
	Sensible capacity	High	kW	1.16	1.25	1.37	1.82	2.05	2.69	3.05	3.55	4.73	5.72	1.10	1.22	1.41	1.79	2.01	2.61	2.99	3.47	4.67	5.61
		Medium	kW	0.94	1.10	1.20	1.53	1.66	1.99	2.39	2.85	3.70	4.46	0.87	1.07	1.18	1.50	1.62	1.96	2.36	2.80	3.67	4.40
		Low	kW	0.77	0.93	0.98	1.15	1.23	1.41	1.76	2.27	2.75	2.94	0.73	0.91	0.96	1.14	1.21	1.40	1.74	2.23	2.73	2.91
Heating capacity (standard conditions)	High		kW	1.82	1.84	2.15	2.70	2.94	4.05	4.24	4.98	6.49	8.37	1.66	1.76		2.53	2.68	4.20	3.82	4.64	6.97	7.35
	Medium		kW	1.48	1.72	1.81	2.26	2.37	3.13	3.24	4.08	5.17	6.53	1.49	1.56		2.18	2.31	3.47	3.22	4.07	6.02	6.29
	Low		kW	1.21	1.45	1.50	1.74	1.76	2.39	2.47	3.31	3.97	4.39	1.31	1.36		1.78	1.88	2.82	2.73	3.55	5.02	4.85
Power input	High		kW	0.037	0.053		0.057	0.056	0.065	0.098		0.182	0.244	0.037	0.053		0.057	0.056	0.065	0.098		0.182	0.244
	Medium		kW	0.03	0.04				0.05	0.06	0.07	0.13	0.17	0.03	0.04				0.05	0.06	0.07	0.13	0.17
	Low		kW	0.02	0.03	0.02	0.03		0.04		0.05	0.09	0.11	0.02	0.03	0.02	0.03		0.04		0.05	0.09	0.11
Dimensions	Unit	HeightxWidthxLength	mm	564x774x246			564x984x246		564x1,190x246			564x1,400x271		564x774x246			564x984x246		564x1,190x246			564x1,400x271	
Weight	Unit		kg	20.6		21.2	26.5	27.5	32.5	33.5	33.6	43.1		20.6		21.2	26.5	27.5	32.5	33.5	33.6	43.1	
Casing	Colour			White - RAL9010																			
Air filter	Type			Polypropylene net																			
Fan	Type			Centrifugal																			
	Quantity			1			2							1			2						
	Air flow rate	High	m^3/h	319	344		442		640	706	785	1,011	1,393	307	330	327	432	431	628	690	763	998	1,362
		Medium	m^3/h	233	271		341		450	497	605	771	1,022	225	261		334	332	444	490	593	765	1,007
		Low	m^3/h	178	211		241		320	361	470	570	642	174	205		238	237	316	356	460	565	636
Total sound power level	High		dBA	47.0	49.0	50.0	48.0		52.0	53.0	56.0	61.0	67.0	45.0	49.0	50.0	48.0	47.0	53.0	56.0	58.0	60.0	66.0
	Medium		dBA	42.0	44.0		43.0	42.0	43.0		49.0	54.0	60.0	39.0	44.0		43.0	41.0	45.0	46.0	53.0	54.0	58.0
	Low		dBA	37.0	38.0	40.0	35.0	36.0	35.0		43.0	47.0	49.0	33.0	40.0	38.0	34.0	33.0	36.0	39.0	48.0	46.0	48.0
Sound pressure level	High		dBA	42.0	44.0	45.0	43.0		47.0	48.0	51.0	56.0	62.0	40.0	44.0	45.0	43.0	42.0	46.0	51.0	54.0	55.0	61.0
	Medium		dBA	37.0	39.0		38.0	37.0	38.0		44.0	49.0	55.0	34.0	39.0		38.0	36.0	38.0	41.0	48.0	49.0	53.0
	Low		dBA	32.0	33.0	35.0	30.0	31.0	30.0		38.0	42.0	44.0	28.0	33.0		29.0	28.0	29.0	32.0	43.0	41.0	43.0
Electric heater	Power input (Optional)		kW	1.0	1.5		1.6		2.0			3.0		1.0	1.5		1.6		2.0			3.0	
Piping connections	Drain	OD	mm	16																			
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230																			
Control systems	Wired remote control			FWEC3A/FWEDA/SHINKA/FWEC2T/4T																			

For standard conditions refer to the Measuring Conditions table, at the end of this catalogue

Concealed flexi type unit

- BLDC fan motor unit for horizontal or vertical concealed mounting. Continuous air flow regulation and fan speed modulation
- Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible
- Up to 70% energy savings with brushless DC motor technology compared to traditional technology
- Instant adjustment to temperature and relative humidity changes
- Low operating sound level
- Highly flexible solutions: multiple sizes, piping topologies and connection valves
- Available static pressure up to 50Pa at maximum speed



FWS-AT/AF



FWEC10



FWEC3A



FWEDA



SHINKA TOUCH/SHINKA SENSE/SHINKA ZONE

FWS-AT FWS-AF

Indoor unit			FWS-AT/AF	02	03	06	08	02	03	06	08
				2-pipe				4-pipe			
Cooling capacity (standard conditions)	Total capacity	High	kW	1.94	2.91	4.48	7.93	1.77	2.86	4.64	7.79
		Medium	kW	1.69	2.37	3.64	6.2	1.55	2.32	3.79	6.12
		Low	kW	1.35	1.75	2.99	4.1	1.25	1.72	3.10	4.06
	Sensible capacity	High	kW	1.49	2.09	3.62	5.87	1.44	2.06	3.54	5.76
		Medium	kW	1.30	1.69	2.90	4.59	1.21	1.65	2.85	4.54
		Low	kW	1.04	1.25	2.31	3.04	0.97	1.23	2.27	3.01
Heating capacity (standard conditions)	High		kW	2.15	2.94	4.88	8.37	1.76	2.68	4.64	7.35
	Medium		kW	1.81	2.37	4.11	6.53	1.56	2.31	4.07	6.29
	Low		kW	1.50	1.76	3.36	4.39	1.36	1.88	3.55	4.85
Power input	High		kW	0.019	0.016	0.033	0.087	0.019	0.016	0.033	0.087
	Medium		kW	0.01		0.02	0.038	0.01		0.02	0.038
	Low		kW	0.01			0.013	0.01			0.013
FCEER				B	A			B	A		B
FCCOP				B	A			B	A		B
Dimensions	Unit	HeightxWidthxLength	mm	535x584x224	535x794x224	535x1,000x224	535x1,214x249	535x584x224	535x794x224	535x1,000x224	535x1,214x249
Weight	Unit		kg	16.9	22.1	26.6	35.4	16.9	22.1	26.6	35.4
Air filter	Type			Polypropylene net							
Fan	Type			Centrifugal							
	Quantity			1	2			1	2		
	Air flow rate	High	m^3/h	344	442	785	1,393	327	431	763	1,362
		Medium	m^3/h	271	341	605	1,022	261	332	593	1,007
		Low	m^3/h	211	241	470	642	205	237	460	636
Total sound power level	High		dBA	50.0	48.0	56.0	67.0	50.0	47.0	58.0	66.0
	Medium		dBA	44.0	42.0	49.0	60.0	44.0	41.0	53.0	58.0
	Low		dBA	40.0	36.0	43.0	49.0	38.0	33.0	48.0	
Sound pressure level	High		dBA	45.0	43.0	51.0	62.0	45.0	42.0	54.0	61.0
	Medium		dBA	39.0	37.0	44.0	55.0	39.0	36.0	48.0	53.0
	Low		dBA	35.0	31.0	38.0	44.0	33.0	28.0	43.0	
Electric heater	Power input (Optional)		kW	1.5	1.6	2.0	-	1.5	1.6	2.0	-
Piping connections	Drain	OD	mm	16							
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230							
Control systems	Wired remote control			FWEC3A/FWEDA/SHINKA/FWEC10							

For standard conditions refer to the Measuring Conditions table, at the end of this catalogue

Concealed flexi type unit

- AC fan motor unit for horizontal or vertical concealed mounting
- Quick fixing system for wall or ceiling mounted installation
- Pre-assembled 3-way/4-port on/off valves are available
- Valve packages are insulated, no extra drain pan required
- Valve packages contain balancing valves and sensor pocket
- Fast-on connections for electrical options: no tools needed
- The air filter can easily be removed for cleaning
- Electric heater: no relay up to 2kW capacity
- Electric heater: equipped with two overheat cut-out thermostats
- Available static pressure up to 50Pa at maximum speed



FWM-DAT/DAF



FWEC2T/4T



FWEC1,2,3A



FWEDA



SHINKA TOUCH/SHINKA SENSE/SHINKA ZONE

FWM-DAT FWM-DAF

Indoor unit			FWM-DAT/DAF	01	15	02	25	03	35	04	06	08	10	01	15	02	25	03	35	04	06	08	10
				2-pipe										4-pipe									
Cooling capacity (standard conditions)	Total capacity	High	kW	1.50	1.69	1.91	2.36	2.87	3.45	4.23	4.41	6.53	7.78	1.42	1.64	1.74	2.32	2.81	3.36	4.16	4.57	6.46	7.64
		Medium	kW	1.21	1.48	1.66	1.99	2.34	2.58	3.21	3.59	5.14	6.07	1.11	1.44	1.52	1.96	2.29	2.54	3.17	3.74	5.10	5.99
		Low	kW	1.02	1.24	1.34	1.57	1.73	1.94	2.47	2.95	3.88	4.00	0.97	1.22	1.24	1.55	1.70	1.92	2.44	3.06	3.84	3.96
	Sensible capacity	High	kW	1.16	1.25	1.37	1.82	2.05	2.69	3.05	3.55	4.73	5.72	1.10	1.22	1.41	1.79	2.01	2.61	2.99	3.47	4.67	5.61
		Medium	kW	0.94	1.10	1.20	1.53	1.66	1.99	2.39	2.85	3.70	4.46	0.87	1.07	1.18	1.50	1.62	1.96	2.36	2.80	3.67	4.40
		Low	kW	0.77	0.93	0.98	1.15	1.23	1.41	1.76	2.27	2.75	2.94	0.73	0.91	0.96	1.14	1.21	1.40	1.74	2.23	2.73	2.91
Heating capacity (standard conditions)	High		kW	1.82	1.84	2.15	2.70	2.94	4.05	4.24	4.98	6.49	8.37	1.66	1.76		2.53	2.68	4.20	3.82	4.64	6.97	7.35
	Medium		kW	1.48	1.72	1.81	2.26	2.37	3.13	3.24	4.08	5.17	6.53	1.49	1.56		2.18	2.31	3.47	3.22	4.07	6.02	6.29
	Low		kW	1.21	1.45	1.50	1.74	1.76	2.39	2.47	3.31	3.97	4.39	1.31	1.36		1.78	1.88	2.82	2.73	3.55	5.02	4.85
Power input	High		kW	0.037	0.053		0.057	0.056	0.065	0.098		0.182	0.244	0.037	0.053		0.057	0.056	0.065	0.098		0.182	0.244
	Medium		kW	0.03	0.04				0.05	0.06	0.07	0.13	0.17	0.03	0.04				0.05	0.06	0.07	0.13	0.17
	Low		kW	0.02	0.03	0.02	0.03		0.04		0.05	0.09	0.11	0.02	0.03	0.02	0.03		0.04		0.05	0.09	0.11
Dimensions	Unit	HeightxWidthxLength	mm	535x584x224			535x794x224		535x1,000x224			535x1,210x249		535x584x224			535x794x224		535x1,000x224			535x1,210x249	
Weight	Unit		kg	16.5		16.9	21.4	22.1	26.3	26.4	26.6	35.4		16.5		16.9	21.4	22.1	26.3	26.4	26.6	35.4	
Air filter	Type			Polypropylene net																			
Fan	Type			Centrifugal																			
	Quantity			1			2							1			2						
	Air flow rate	High	m^3/h	319	344		442		640	706	785	1,011	1,393	307	330	327	432	431	628	690	763	998	1,362
		Medium	m^3/h	233	271		341		450	497	605	771	1,022	225	261		334	332	444	490	593	765	1,007
		Low	m^3/h	178	211		241		320	361	470	570	642	174	205		238	237	316	356	460	565	636
Total sound power level	High		dBA	47.0	49.0	50.0	48.0		52.0	53.0	56.0	61.0	67.0	45.0	49.0	50.0	48.0	47.0	53.0	56.0	58.0	60.0	66.0
	Medium		dBA	42.0	44.0		43.0	42.0	43.0		49.0	54.0	60.0	39.0	44.0		43.0	41.0	45.0	46.0	53.0	54.0	58.0
	Low		dBA	37.0	38.0	40.0	35.0	36.0	35.0		43.0	47.0	49.0	33.0	40.0	38.0	34.0	33.0	36.0	39.0	48.0	46.0	48.0
Sound pressure level	High		dBA	42.0	44.0	45.0	43.0		47.0	48.0	51.0	56.0	62.0	40.0	44.0	45.0	43.0	42.0	46.0	51.0	54.0	55.0	61.0
	Medium		dBA	37.0	39.0		38.0	37.0	38.0		44.0	49.0	55.0	34.0	39.0		38.0	36.0	38.0	41.0	48.0	49.0	53.0
	Low		dBA	32.0	33.0	35.0	30.0	31.0	30.0		38.0	42.0	44.0	28.0	33.0		29.0	28.0	29.0	32.0	43.0	41.0	43.0
Electric heater	Power input (Optional)		kW	1.0	1.5		1.6		2.0			3.0		1.0	1.5		1.6		2.0			3.0	
Piping connections	Drain	OD	mm	16																			
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230																			
Control systems	Wired remote control			FWEC3A/FWEDA/SHINKA/FWEC2T/4T																			

For standard conditions refer to the Measuring Conditions table, at the end of this catalogue

Concealed flexi type unit with low ESP

- AC fan motor unit for horizontal or vertical concealed mounting
- Low unit casing height of 200mm
- Sirocco Fan leading to low noise operation
- Open control
- Factory mounted valve combinations
- Increased flexibility of capacity setting in the field
- The air filter can easily be removed for cleaning



FWE-DT/DF



FWEC2T/4T



FWEC1,2,3A



FWEDA



SHINKA TOUCH/SHINKA SENSE/SHINKA ZONE

FWE-DT FWE-DF

Indoor unit			FWE-DT/FWE-DF		03	04	05	06	07	08	10	11	03	04	05	06	07	08	10	11
					2-pipe								4-pipe							
Cooling capacity (standard conditions)	Total capacity	High	kW		1.94	2.06	2.58	3.12	3.43	3.92	5.22	5.6	1.94	2.06	2.58	3.12	3.42	3.92	5.22	5.6
		Medium	kW		1.6	1.64	2	2.4	2.79	3.66	4.19	4.41	1.6	1.64	2	2.4	2.79	3.66	4.19	4.41
		Low	kW		1.22	1.4	1.64	2.01	2.41	2.77	3.1	3.39	1.22	1.4	1.64	2.01	2.42	2.77	3.1	3.39
		Fan speed 1	kW		1.22	1.21	1.33	1.24	2.07	2.38	2.57	2.81	1.22	1.21	1.33	1.24	2.07	3.22	2.57	2.81
	Sensible capacity	High	kW		1.59	1.69	2.11	2.56	2.81	3.22	4.28	4.59	1.59	1.69	2.11	2.56	2.81	3.22	4.28	4.59
		Medium	kW		1.31	1.34	1.64	1.97	2.28	3	3.44	3.61	1.31	1.34	1.64	1.97	2.28	3	3.44	3.61
		Low	kW		1	1.15	1.35	1.64	1.98	2.27	2.54	2.78	1	1.15	1.35	1.64	1.98	2.27	2.54	2.78
		Fan speed 1	kW		1	0.99	1.09	1.02	1.7	1.95	2.11	2.3	1	0.99	1.09	1.02	1.7	1.95	2.11	2.3
	Latent capacity	High	kW		0.35	0.37	0.46	0.56	0.62	0.71	0.94	1.01	0.35	0.37	0.46	0.56	0.62	0.71	0.94	1.01
		Medium	kW		0.32	0.34	0.43	0.49	0.58	0.66	0.86	0.92	0.32	0.34	0.43	0.49	0.58	0.66	0.86	0.92
Heating capacity (standard conditions)	Capacity	High	kW		2	2.38	2.89	4	4.37	4.64	5.98	6.35	2.11	2.61	2.94	3.84	4.57		5.83	6.18
		Medium	kW		1.69	1.99	2.32	3.36	3.6	4.39	4.96	5.17	1.81	2.37	2.58	3.09	3.93	4.34	4.87	5.07
		Low	kW		1.34	1.78	1.98	2.94	3.15	3.56	3.89	4.17	1.47	2.23	2.36	2.69	3.57		3.87	4.14
		Fan speed 1	kW		1.34	1.6	1.68	2.13	2.74	3.2	3.37	3.6	1.47	2.11	2.16	1.91	3.22		3.39	3.6
Power input	High		kW		0.03	0.03	0.04	0.06	0.07		0.10	0.11	0.03	0.03	0.04	0.06	0.07		0.10	0.11
	Medium		kW		0.03			0.05		0.06			0.03			0.05		0.06		
	Low		kW		0.03			0.04					0.03			0.04				
	Fan speed 1		kW		0.03			0.04	0.03				0.03			0.04	0.03			
Dimensions	Unit	Height	mm		200															
		Width	mm		795			995	1,200				795			995	1,200			
		Depth	mm		610															
	Packed unit	Height	mm		205															
		Width	mm		925			1,125	1,325				925			1,125	1,325			
		Depth	mm		745															
Weight	Unit		kg		17.5	18.5		22	25.5				18	19		22.5	26			
	Packed unit		kg		20	21		25	29				21	22		26	30			
Casing	Colour				Metal															
	Material				Galvanised sheet metal															
Air filter	Type				Plastic Frame / PP Filter Net (G1)															
Fan	Type				Sirocco fan															
	Quantity				2			3	4				2			3	4			
	Air flow rate	High	m^3/h		407	385	488	677	725		1,032	1,116	407	385	488	677	725		1,032	1,116
		Medium	m^3/h		326	306	374	527	570	669	798	846	326	306	374	527	570	669	798	846
		Low	m^3/h		235	263	304	446	481		555	619	235	263	304	446	481		555	619
		Fan speed 1	m^3/h		235	227	243	290	397		436	489	235	227	243	290	397		436	489
Total sound power level	High		dBA		45	44		50			57	59	45	44		50			57	59
	Medium		dBA		39	38	41	44	42	46	51	52	39	38	41	44	42	46	51	52
	Low		dBA		33	34	37	39	34		43	44	33	34	37	39	34		43	44
	Fan speed 1		dBA		33			30	31		38	40	33			30	31		38	40
Water flow	Cooling	High	l/h		334	354	443	536	589	674	897	962	334	354	443	536	589	674	897	962
		Medium	l/h		275	282	343	412	479	630	720	757	275	282	343	412	479	630	720	757
		Low	l/h		210	241	282	345	415	477	534	583	210	241	282	345	415	477	534	583
		Fan speed 1	l/h		210	209	228	213	354	409	442	483	210	209	228	213	354	409	442	483
	Heating	High	l/h		344	409	496	689	751	797	1,029	1,092	182	225	253	330	393		502	531
		Medium	l/h		290	343	400	577	618	755	852	888	156	203	222	266	338	374	419	436
		Low	l/h		230	306	341	505	542	613	669	717	126	192	203	231	307		333	356
		Fan speed 1	l/h		126	182	186	164	277		291	310	230	275	289	366	471	550	579	620
Piping connections	Drain	OD	mm		17.3															
Power supply	Phase/Frequency/Voltage		Hz/V		1~/50/230															
Current input	High		A		0.01		0.02	0.03	0.02		0.04	0.05	0.01		0.02	0.03	0.02		0.04	0.05
	Medium		A		0.01			0.02				0.04	0.01			0.02				0.04
	Low		A		0.01			0.02			0.01	0.03	0.01			0.02			0.01	0.03
Control systems	Wired remote control				FWEC3A/FWEDA/SHINKA/FWEC2T/4T															

Heating: indoor temp. 20°CDB, 15°CWB; entering water temp. 65°C, water temperature drop 10K. | Heating: indoor temp. 20°CDB, 15°CWB; entering water temp. 45°C, water temperature drop 5K. | Inlet/outlet water temperature 7/12 °C; inlet air temperature 27°C DB 19°C WB



Concealed ceiling unit with low ESP

- AC fan motor unit for horizontal concealed mounting
- Easy installation and maintenance
- 4-speed fan motor
- Wired electronic controllers range
- Available static pressure up to 80Pa
- Wide operating range
- Standard left and right side water connection
- Additional drain pan as standard
- G2 plastic frame filter (optional)
- Open protocol control
- Factory mounted valve available as option
- Reduced sound noise thanks to the thinner heat exchanger

Indoor Unit			**FWE-FF**	**04FF**	**05FF**	**06FF**	**08FF**	**10FF**	**12FF**	**14FF**	**16FF**	**20FF**	**24FF**
Cooling capacity (standard conditions)	Total capacity 4-pipe	High	kW	2.01 (1)	2.40 (1)	3.40 (1)	4.20 (1)	4.69 (1)	5.39 (1)	6.97 (1)	7.98 (1)	10.00 (1)	11.30 (1)
		Medium	kW	1.69 (1)	1.99 (1)	3.04 (1)	3.31 (1)	4.18 (1)	4.84 (1)	6.60 (1)	7.19 (1)	8.51 (1)	10.13 (1)
		Low	kW	1.37 (1)	1.61 (1)	2.29 (1)	2.19 (1)	3.28 (1)	3.35 (1)	5.77 (1)	5.81 (1)	6.79 (1)	7.51 (1)
		Fan speed 1	kW	0.90 (1)	1.10 (1)	1.76 (1)	1.30 (1)	2.21 (1)	2.25 (1)	4.79 (1)	5.03 (1)	5.50 (1)	6.09 (1)
	Sensible capacity 4-pipe	High	kW	1.56 (1)	1.93 (1)	2.74 (1)	3.28 (1)	3.71 (1)	4.27 (1)	5.63 (1)	6.63 (1)	8.28 (1)	9.47 (1)
		Medium	kW	1.29 (1)	1.57 (1)	2.43 (1)	2.48 (1)	3.24 (1)	3.79 (1)	5.10 (1)	5.85 (1)	6.88 (1)	8.47 (1)
		Low	kW	1.02 (1)	1.21 (1)	1.83 (1)	1.62 (1)	2.54 (1)	2.58 (1)	4.24 (1)	4.35 (1)	5.28 (1)	5.91 (1)
		Fan speed 1	kW	0.67 (1)	0.81 (1)	1.37 (1)	0.95 (1)	1.65 (1)	1.69 (1)	3.51 (1)	3.72 (1)	4.17 (1)	4.67 (1)
	Latent capacity 4-pipe	High	kW	0.45 (1)	0.47 (1)	0.66 (1)	0.92 (1)	0.99 (1)	1.12 (1)	1.34 (1)	1.35 (1)	1.72 (1)	1.82 (1)
Heating capacity (standard conditions)	Capacity 4-pipe	High	kW	2.38 (2)	2.45 (2)	3.23 (2)	4.80 (2)	5.20 (2)	6.45 (2)	6.75 (2)	7.60 (2)	9.60 (2)	11.10 (2)
		Medium	kW	2.00 (2)	2.06 (2)	2.90 (2)	3.79 (2)	4.43 (2)	5.47 (2)	6.15 (2)	6.75 (2)	7.94 (2)	10.00 (2)
		Low	kW	1.66 (2)	1.72 (2)	2.21 (2)	2.65 (2)	3.33 (2)	3.50 (2)	4.93 (2)		5.84 (2)	6.98 (2)
		Fan speed 1	kW	1.21 (2)	1.25 (2)	1.72 (2)	1.82 (2)	2.27 (2)	2.38 (2)	3.65 (2)		4.14 (2)	4.97 (2)
Power input	High		kW	0.054 (3)		0.076 (3)	0.094 (3)	0.109 (3)	0.122 (3)	0.170 (3)	0.189 (3)	0.176 (3)	0.224 (3)
	Medium		kW	0.04 (3)		0.06 (3)	0.07 (3)	0.08 (3)		0.14 (3)		0.13 (3)	0.15 (3)
	Low		kW	0.04 (3)		0.05 (3)	0.06 (3)	0.07 (3)		0.12 (3)		0.11 (3)	0.13 (3)
Casing	Colour			Metal									
Decoration panel	Dimensions	Unit HeightxWidthxDepth	mm	253x728x570			253x1,087x570			253x1,362x570		253x1,677x570	
Fan	Type			Centrifugal (Blade: Forward - curve)									
	Air flow rate	High	m^3/h	465 (3)		638 (3)	854 (3)	931 (3)	1,082 (3)	1,467 (3)	1,692 (3)	1,707 (3)	1,990 (3)
		Medium	m^3/h	379 (3)		555 (3)	668 (3)	805 (3)	931 (3)	1,314 (3)	1,467 (3)	1,382 (3)	1,751 (3)
		Low	m^3/h	307 (3)		400 (3)	467 (3)	620 (3)		1,021 (3)		1,001 (3)	1,184 (3)
		Fan speed 1	m^3/h	216 (3)		301 (3)	325 (3)	436 (3)		730 (3)		714 (3)	855 (3)
Total sound power level	High		dBA	49.0 (4)	50.0 (4)	59.0 (4)	55.0 (4)	57.0 (4)	61.0 (4)		64.0 (4)	59.0 (4)	64.0 (4)
	Medium		dBA	45.0 (4)		56.0 (4)	49.0 (4)	54.0 (4)	58.0 (4)		61.0 (4)	54.0 (4)	61.0 (4)
	Low		dBA	40.0 (4)		48.0 (4)	41.0 (4)	49.0 (4)		52.0 (4)		48.0 (4)	51.0 (4)
	Fan speed 1		dBA	32.0 (4)	33.0 (4)	41.0 (4)	35.0 (4)	43.0 (4)		45.0 (4)		43.0 (4)	44.0 (4)
Sound pressure level	High		dBA	38.0 (5)	39.0 (5)	48.0 (5)	44.0 (5)	46.0 (5)	50.0 (5)		53.0 (5)	48.0 (5)	53.0 (5)
	Medium		dBA	34.0 (5)		45.0 (5)	38.0 (5)	43.0 (5)	47.0 (5)		50.0 (5)	43.0 (5)	50.0 (5)
	Low		dBA	29.0 (5)		37.0 (5)	30.0 (5)	38.0 (5)		41.0 (5)		37.0 (5)	40.0 (5)
	Fan speed 1		dBA	21.0 (5)	22.0 (5)	30.0 (5)	24.0 (5)	32.0 (5)		34.0 (5)		32.0 (5)	33.0 (5)
Water flow	Cooling	High	l/h	346 (1)	413 (1)	585 (1)	722 (1)	807 (1)	927 (1)	1,198 (1)	1,372 (1)	1,719 (1)	1,943 (1)
		Medium	l/h	291 (1)	342 (1)	522 (1)	569 (1)	718 (1)	832 (1)	1,135 (1)	1,237 (1)	1,464 (1)	1,742 (1)
		Low	l/h	236 (1)	277 (1)	394 (1)	377 (1)	563 (1)	576 (1)	992 (1)	998 (1)	1,168 (1)	1,292 (1)
		Fan speed 1	l/h	155 (1)	189 (1)	303 (1)	224 (1)	380 (1)	388 (1)	823 (1)	865 (1)	947 (1)	1,047 (1)
	Heating	High	l/h	504 (2)	517 (2)	686 (2)	919 (2)	995 (2)	1,233 (2)	1,277 (2)	1,420 (2)	1,790 (2)	2,073 (2)
Water flow	Heating	Medium	l/h	424 (2)	435 (2)	615 (2)	753 (2)	847 (2)	1,045 (2)	1,171 (2)	1,277 (2)	1,504 (2)	1,890 (2)
		Low	l/h	353 (2)	361 (2)	469 (2)	547 (2)	637 (2)	669 (2)	948 (2)		1,142 (2)	1,344 (2)
		Fan speed 1	l/h	256 (2)	262 (2)	365 (2)	384 (2)	434 (2)	456 (2)	700 (2)		849 (2)	954 (2)

(1)Inlet/outlet water temperature 7/12 °C; inlet air temperature 27°C DB 19°C WB | (2)Heating: indoor temp. 20°CDB, 15°CWB; entering water temp. 45°C, water temperature drop 5K. | (3)Airflow value measurements are performed at 20°C(DB)/15°C(WB) condition. | (4)Sound power level according to ISO3741 | (5)The sound pressure level is measured via a microphone at 1m distance of the unit.



FWE-FT/FF



FWEC2T/4T



FWEC1,2,3A



FWEDA



SHINKA TOUCH/SHINKA SENSE/SHINKA ZONE

FWE-FT

FWE-FF

Indoor Unit			FWE-FT	04FT	05FT	06FT	08FT	10FT	12FT	14FT	16FT	20FT	24FT
Cooling capacity (standard conditions)	Total capacity 2-pipe	High	kW	2.10 (1)	2.50 (1)	3.45 (1)	4.40 (1)	4.81 (1)	5.60 (1)	7.06 (1)	8.05 (1)	10.30 (1)	11.50 (1)
		Medium	kW	1.75 (1)	2.10 (1)	3.13 (1)	3.60 (1)	4.30 (1)	5.06 (1)	6.69 (1)	7.38 (1)	8.84 (1)	10.48 (1)
		Low	kW	1.40 (1)	1.70 (1)	2.39 (1)	2.40 (1)	3.40 (1)	3.50 (1)	5.90 (1)	5.98 (1)	7.08 (1)	7.90 (1)
		Fan speed 1	kW	0.90 (1)	1.10 (1)	1.81 (1)	1.35 (1)	2.31 (1)	2.32 (1)	4.98 (1)	5.01 (1)	5.72 (1)	6.30 (1)
	Sensible capacity 2-pipe	High	kW	1.68 (1)	2.06 (1)	2.84 (1)	3.38 (1)	3.89 (1)	4.53 (1)	5.81 (1)	6.82 (1)	8.72 (1)	9.86 (1)
		Medium	kW	1.36 (1)	1.69 (1)	2.53 (1)	2.77 (1)	3.42 (1)	4.09 (1)	5.37 (1)	6.14 (1)	7.31 (1)	8.97 (1)
		Low	kW	1.08 (1)	1.31 (1)	1.92 (1)	1.82 (1)	2.68 (1)	2.76 (1)	4.56 (1)	4.68 (1)	5.64 (1)	6.37 (1)
		Fan speed 1	kW	0.69 (1)	0.83 (1)	1.44 (1)	1.01 (1)	1.77 (1)	1.78 (1)	3.75 (1)	3.82 (1)	4.44 (1)	4.95 (1)
	Latent capacity 2-pipe	High	kW	0.42 (1)	0.44 (1)	0.61 (1)	1.02 (1)	0.92 (1)	1.07 (1)	1.25 (1)	1.22 (1)	1.58 (1)	1.64 (1)
Heating capacity (standard conditions)	Capacity 2-pipe	High	kW	2.93 (2)	3.00 (2)	3.99 (2)	5.34 (2)	5.78 (2)	7.17 (2)	7.43 (2)	8.26 (2)	10.41 (2)	12.05 (2)
		Medium	kW	2.47 (2)	2.53 (2)	3.58 (2)	4.38 (2)	4.93 (2)	6.08 (2)	6.81 (2)	7.43 (2)	8.75 (2)	10.99 (2)
		Low	kW	2.05 (2)	2.10 (2)	2.73 (2)	3.18 (2)	3.70 (2)	3.89 (2)	5.51 (2)		6.64 (2)	7.82 (2)
		Fan speed 1	kW	1.49 (2)	1.53 (2)	2.13 (2)	2.23 (2)	2.52 (2)	2.65 (2)	4.07 (2)		4.94 (2)	5.55 (2)
Power input	High		kW	0.058 (3)		0.082 (3)	0.096 (3)	0.103 (3)	0.115 (3)	0.222 (3)	0.244 (3)	0.191 (3)	0.298 (3)
	Medium		kW	0.05 (3)		0.06 (3)		0.08 (3)		0.17 (3)		0.12 (3)	0.21 (3)
	Low		kW	0.04 (3)		0.05 (3)		0.06 (3)		0.14 (3)		0.10 (3)	0.17 (3)
Dimensions	Unit	HeightxWidthxDepth	mm	253x728x570			253x1,090x570			253x1,360x570		253x1,680x570	
Casing	Colour			Metal									
Fan	Type			Centrifugal (Blade: Forward - curve)									
	Air flow rate	High	m^3/h	492 (3)		683 (3)	949 (3)	989 (3)	1,155 (3)	1,534 (3)	1,776 (3)	1,812 (3)	2,090 (3)
		Medium	m^3/h	398 (3)		592 (3)	734 (3)	850 (3)	989 (3)	1,368 (3)	1,534 (3)	1,455 (3)	1,831 (3)
		Low	m^3/h	319 (3)		421 (3)	503 (3)	646 (3)		1,052 (3)		1,036 (3)	1,220 (3)
		Fan speed 1	m^3/h	218 (3)		312 (3)	338 (3)	444 (3)		738 (3)		720 (3)	864 (3)
Total sound power level	High		dBA	49.0 (4)	50.0 (4)	58.0 (4)	54.0 (4)	57.0 (4)	61.0 (4)	60.0 (4)	64.0 (4)	58.0 (4)	64.0 (4)
	Medium		dBA	44.0 (4)		56.0 (4)	48.0 (4)	54.0 (4)	57.0 (4)	58.0 (4)	60.0 (4)	53.0 (4)	60.0 (4)
	Low		dBA	39.0 (4)		47.0 (4)	40.0 (4)	48.0 (4)		51.0 (4)		47.0 (4)	50.0 (4)
	Fan speed 1		dBA	31.0 (4)		40.0 (4)	34.0 (4)	42.0 (4)		44.0 (4)		42.0 (4)	43.0 (4)
Sound pressure level	High		dBA	38.0 (5)	39.0 (5)	47.0 (5)	43.0 (5)	46.0 (5)	50.0 (5)	49.0 (5)	53.0 (5)	47.0 (5)	53.0 (5)
	Medium		dBA	33.0 (5)	34.0 (5)	45.0 (5)	37.0 (5)	43.0 (5)	46.0 (5)	47.0 (5)	49.0 (5)	42.0 (5)	49.0 (5)
	Low		dBA	28.0 (5)		36.0 (5)	29.0 (5)	37.0 (5)		40.0 (5)		36.0 (5)	39.0 (5)
	Fan speed 1		dBA	20.0 (5)		29.0 (5)	23.0 (5)	31.0 (5)		33.0 (5)		31.0 (5)	32.0 (5)
Water flow	Cooling	High	l/h	361 (1)	430 (1)	592 (1)	757 (1)	827 (1)	964 (1)	1,213 (1)	1,384 (1)	1,771 (1)	1,978 (1)
		Medium	l/h	301 (1)	361 (1)	538 (1)	618 (1)	740 (1)	870 (1)	1,151 (1)	1,270 (1)	1,519 (1)	1,802 (1)
		Low	l/h	241 (1)	292 (1)	410 (1)	413 (1)	584 (1)	602 (1)	1,014 (1)	1,029 (1)	1,217 (1)	1,359 (1)
		Fan speed 1	l/h	155 (1)	189 (1)	311 (1)	232 (1)	396 (1)	399 (1)	857 (1)	861 (1)	983 (1)	1,083 (1)
	Heating	High	l/h	504 (2)	517 (2)	686 (2)	919 (2)	995 (2)	1,233 (2)	1,277 (2)	1,420 (2)	1,790 (2)	2,073 (2)
Water flow	Heating	Medium	l/h	424 (2)	435 (2)	615 (2)	753 (2)	847 (2)	1,045 (2)	1,171 (2)	1,277 (2)	1,504 (2)	1,890 (2)
		Low	l/h	353 (2)	361 (2)	469 (2)	547 (2)	637 (2)	669 (2)	948 (2)		1,142 (2)	1,344 (2)
		Fan speed 1	l/h	256 (2)	262 (2)	365 (2)	384 (2)	434 (2)	456 (2)	700 (2)		849 (2)	954 (2)

(1)Inlet/outlet water temperature 7/12 °C; inlet air temperature 27°C DB 19°C WB | (2)Heating: indoor temp. 20°CDB, 15°CWB; entering water temp. 45°C, water temperature drop 5K. | (3)Airflow value measurements are performed at 20°C(DB)/15°C(WB) condition. | (4)Sound power level according to ISO3741 | (5)The sound pressure level is measured via a microphone at 1m distance of the unit.

Concealed ceiling unit with medium ESP

- BLDC fan motor unit for horizontal concealed mounting. Continuous air flow regulation and fan speed modulation
- Available in District Cooling version for both 2 and 4 pipe applications
- Up to 50% energy savings with brush-less DC motor technology compared to traditional technology
- Instant adjustment to temperature and relative humidity changes
- Low operating sound level
- Highly flexible solutions: multiple sizes, piping topologies and connection valves
- Heat exchanger up to 4 rows
- Available static pressure up to 80Pa at maximum speed



FWP-CT/CF



FWEC10



FWEC3A



FWEDA



SHINKA TOUCH/SHINKA SENSE/SHINKA ZONE

FWP-CT FWP-CF

Indoor unit	FWP-CT/CF	04			05			06			08			10			11			15			17		
2-pipe																									
Speed		min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max
Declared speed			2,5,7			1,5,7			1,6,7			1,4,7		1,6,7			1,6,7			5,6,7			5,6,7		
Control voltage (E)	V	2.90	8.00	9.00	4.30	7.50	8.40	4.50	7.40	8.30	5.40	8.30	9.90	3.40	7.60	8.50	3.40	7.60	8.50	6.80	7.50	8.30	6.80	7.50	8.30
Rated air flow (E)	m^3/h	109	246	276	171	275	341	195	360	402	305	532	652	333	687	760	333	687	760	1,050	1,163	1,289	1,050	1,163	1,289
Available static pressure (E)	Pa	10	50	63	19	50	77	19	50	63	17	50	75	12	50	61	12	50	61	40	50	60	40	50	60
Power input (E)	W	6	25	33	10	24	39	10	26	35	22	51	77	11	54	68	11	54	68	105	128	162	105	128	162
Maximum current absorption	A		0.32			0.60			0.84			0.84			0.91			0.91			3.52			3.52	
Total cooling capacity (1)(E)	kW	0.93	1.76	1.95	1.29	1.95	2.34	1.59	2.74	3.04	1.98	3.26	3.79	2.29	4.34	4.75	2.51	4.91	5.35	6.28	6.81	7.38	7.04	7.64	8.28
Sensible cooling capacity (1)(E)	kW	0.62	1.25	1.39	0.91	1.39	1.66	1.09	1.91	2.11	1.48	2.48	2.92	1.67	3.21	3.51	1.77	3.45	3.76	4.64	5.03	5.46	4.96	5.38	5.84
FCEER class (E)		A																		C			B		
Water flow (2)	l/h	161	306	340	222	339	408	274	476	527	343	568	664	394	753	828	432	850	930	1,094	1,190	1,295	1,225	1,332	1,448
Water pressure drop (2)(E)	kPa	2	5	6	3	6	8	3	7	9	3	8	11	2	7	8	3	10	12	13	16	18	20	23	-
Heating capacity (3)(E)	kW	0.88	1.21	1.99	1.33	1.98	2.35	1.59	2.80	3.10	2.35	3.71	4.31	2.54	4.76	5.17	2.63	5.03	5.49	6.68	7.22	7.80	7.18	7.80	8.46
FCCOP class (E)		A																		B					
Water flow (3)	l/h	153	315	346	231	345	408	276	488	538	408	644	749	441	827	898	457	875	955	1,162	1,256	1,356	1,248	1,355	1,471
Water pressure drop (3)(E)	kPa	1	4	5	2	5	7	2	6	8	4	9	11	2	7	8	3	9	11	12	14	16	17	19	22
Standard coil - number of rows			3			3			4			3			3			4			3			4	
Total sound power level (4)	dB(A)	28	49	52	39	50	54	39	50	54	38	52	58	38	55	58	38	55	58	61	63	69	61	63	69
Inlet + radiated sound power level (4)(E)	dB(A)	26	47	50	37	48	52	37	48	52	36	50	56	36	53	56	36	53	56	59	61	67	59	61	67
Outlet sound power level (4)(E)	dB(A)	25	46	49	36	47	51	36	47	51	35	49	55	35	52	55	35	52	55	58	60	66	58	60	66
Water content - standard coil	dm^3		1.20			1.20			2.20			1.60			2.50			3.30			2.50			3.30	
Cross-section area of power cables (5)	mm^2		1.00			1.00			1.00			1.00			1.00			1.00			1.50			1.50	
4-pipe																									
Speed		min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max
Declared speed			2,5,7			1,5,7			1,6,7			1,4,7			1,6,7			1,6,7			5,6,7			5,6,7	
Control voltage (E)	V	2.90	7.90	8.90	4.50	7.30	8.90	4.50	7.40	8.30	5.40	8.30	9.90	3.40	7.60	8.50	3.40	7.60	8.50	6.80	7.50	8.30	6.80	7.50	8.30
Rated air flow (E)	m^3/h	109	243	270	170	272	336	195	357	398	302	524	642	333	683	755	333	683	755	1,050	1,163	1,289	1,050	1,163	1,289
Available static pressure (E)	Pa	10	50	63	19	50	77	19	50	63	17	50	75	12	50	61	12	50	61	40	50	60	40	50	60
Power input (E)	W	6	25	32	10	23	39	10	26	35	21	50	77	11	54	67	11	54	67	105	128	162	105	128	162
Maximum current absorption	A		0.32			0.60			0.84			0.84			0.91			0.91			3.52			3.52	
Total cooling capacity (1)(E)	kW	0.93	1.74	1.91	1.28	1.93	2.31	1.59	2.72	3.01	1.95	3.22	3.75	2.29	4.32	4.72	2.51	4.88	5.32	6.28	6.81	7.38	7.04	7.64	8.28
Sensible cooling capacity (1)(E)	kW	0.62	1.24	1.36	0.90	1.38	1.64	1.09	1.89	2.09	1.47	2.44	2.89	1.67	3.19	3.48	1.77	3.43	3.74	4.64	5.03	5.46	4.96	5.38	5.84
FCEER class (E)		A			A			A			A			A			A			C			B		
Water flow (2)	l/h	161	302	333	221	335	404	274	473	522	339	562	656	394	749	822	432	846	925	1,094	1,190	1,295	1,225	1,332	1,448
Water pressure drop (2)(E)	kPa	2	5	6	3	6	8	3	7	9	3	8	11	2	7	8	3	10	12	13	16	18	20	23	26
Heating capacity (3)(E)	kW	1.14	1.93	2.06	1.55	2.07	2.32	2.09	3.09	3.29	2.80	3.82	4.24	3.40	5.17	5.45	3.40	5.17	5.45	6.42	6.73	7.06	6.42	6.73	7.06
FCCOP class (E)		A			A			A			A			A			A			C			C		
Water flow (3)	l/h	100	169	180	136	181	204	183	271	288	245	334	371	297	452	477	297	452	477	562	589	618	562	589	618
Water pressure drop (3)(E)	kPa	1	2	3	2	3	3	2	3	4	3	5	6	6	13	14	6	13	14	19	21	22	19	21	22
Total sound power level (4)		28	49	52	39	50	54	39	50	54	38	52	58	38	55	58	38	55	58	61	63	69	61	63	69
Standard coil - number of rows	dB(A)		3+1			3+1			4+1			3+1			3+1			4+1			3+1			4+1	
Inlet + radiated sound power level (4)(E)	dB(A)	26	47	50	37	48	52	37	48	52	36	50	56	36	53	56	36	53	56	59	61	67	59	61	67
Outlet sound power level (4)(E)	dB(A)	25	46	49	36	47	51	36	47	51	35	49	55	35	52	55	35	52	55	58	60	66	58	60	66
Water content - standard coil	dm^3		0.47			0.47			0.59			0.59			0.97			0.97			0.97			0.97	
Cross-section area of power cables (5)	mm^2		1.00			1.00			1.00			1.00			1.00			1.00			1.50			1.50	
Power supply cable type		N07V-K																							
Safety fuse F	A		1			1			1			1			1			1			2			2	
Fuses type		gG																							
Power supply	Phase/Frequency Hz	1~/50																							
Control systems	Wired remote control	FWEC3A/FWEDA/SHINKA/FWEC10																							

(1) Water temperature 7°C / 12°C, air temperature dry bulb 27°C, wet bulb 19°C (47% relative humidity) according to EN1397:2015 | (2) Water temperature 7°C / 12°C, air temperature dry bulb 27°C, wet bulb 19°C (47% relative humidity) | (3) Water temperature 45°C / 40°C, air temperature 20°C | (4) Sound power measured according to standards ISO 3741 and ISO 3742 | (5) Sound pressure measured at a distance of 4 m in a free field with a directivity factor of 1 | (E) EUROVENT certified data

Concealed ceiling unit with medium ESP

- AC fan motor unit for horizontal concealed mounting
- Compact dimensions, can easily be mounted in a narrow ceiling void
- Heat exchanger up to 4 rows
- Drain pan to collect the condensate from: heat exchanger and regulating valves -reversible water connections
- The air filter can easily be removed for cleaning
- Available static pressure up to 80Pa at maximum speed



FWB-CT/CF



FWEC2T/4T



FWEC1,2,3A



FWEDA



SHINKA TOUCH/SHINKA SENSE/SHINKA ZONE

FWB-CT

FWB-CF

Indoor unit	FWB-CT/CF	04			05			06			08			10			11			15			17		
2-pipe																									
Speed		min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max
Declared speed			2,5,7			1,5,7			1,6,7			1,4,7			1,6,7			1,6,7			5,6,7			5,6,7	
Rated air flow (E)	m^3/h	109	246	276	171	275	341	195	360	402	305	532	652	333	687	760	333	687	760	1,050	1,163	1,289	1,050	1,163	1,289
Available static pressure (E)	Pa	10	50	63	19	50	77	19	50	63	17	50	75	12	50	61	12	50	61	40	50	60	40	50	60
Power input (E)	W	24	57	82	34	69	106	34	85	106	76	143	192	76	167	192	76	167	192	235	280	332	235	280	332
Maximum current absorption	A		0.40			0.56			0.56			1.10			1.10			1.10			2.10			2.10	
Total cooling capacity (1)(E)	kW	0.92	1.72	1.90	1.27	1.90	2.27	1.57	2.69	2.96	1.92	3.17	3.68	2.22	4.22	4.63	2.44	4.79	5.23	6.15	6.66	7.21	6.91	7.49	8.12
Sensible cooling capacity (1)(E)	kW	0.61	1.21	1.34	0.89	1.34	1.59	1.07	1.86	2.03	1.42	2.39	2.81	1.60	3.09	3.39	1.70	3.33	3.64	4.51	4.88	5.29	4.83	5.23	5.67
FCEER class (E)						D						E						D							
Water flow (1)	l/h	160	306	340	222	339	408	274	476	527	343	568	664	394	753	828	432	850	930	1,095	1,191	1,295	1,225	1,333	1,448
Water pressure drop (2)(E)	kPa	2	5	6	3	6	8	3	7	9	3	8	11	2	7	8	3	10	12	13	16	18	20	23	26
Heating capacity (3)(E)	kW	0.88	1.81	1.99	1.33	1.98	2.35	1.59	2.80	3.10	2.35	3.71	4.31	2.54	4.76	5.17	2.63	5.03	5.49	6.68	7.22	7.80	7.18	7.80	8.46
FCCOP class (E)												D													
Water flow (3)	l/h	153	315	346	231	345	408	276	488	538	408	644	749	442	827	898	457	875	955	1,162	1,256	1,357	1,248	1,356	1,472
Water pressure drop (3)(E)	kPa	1	4	5	2	5	7	2	6	8	4	9	11	2	7	8	3	9	11	12	14	16	17	20	23
Standard coil - number of rows			3			3			4			3			3			4			3			4	
Total sound power level (4)	dB(A)	28	49	52	39	50	54	39	50	54	38	52	58	38	55	58	38	55	58	61	63	69	61	63	69
Inlet + radiated sound power level (4)(E)	dB(A)	26	47	50	37	48	52	37	48	52	37	50	58	36	53	56	36	53	56	59	61	67	59	61	67
Outlet sound power level (4)(E)	dB(A)	25	46	49	36	47	51	36	47	51	35	47	56	35	52	55	35	52	55	58	60	66	58	60	66
Water content - standard coil	dm^3		1.20			1.20			1.60			1.60			2.50			3.30			2.50			3.30	
Power supply cable type												N07V-K													
Cross-section area of power cables (5)	mm^2		1.00			1.00			1.00			1.50			1.50			1.50			1.50			1.50	
Safety fuse F	A		1			1			1			2			2			2			2			2	
Fuses type												gG													
Power supply	Phase/Frequency Hz											1~/50													
Control systems	Wired remote control											FWEC3A/FWEDA/SHINKA/FWEC2T/4T													
4-pipe																									
Speed		min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max
Declared speed			2,5,7			1,5,7			1,6,7			1,4,7			1,6,7			1,6,7			5,6,7			5,6,7	
Rated air flow (E)	m^3/h	109	243	270	170	272	336	195	357	398	302	524	642	333	683	755	333	683	755	1,050	1,163	1,289	1,050	1,163	1,289
Available static pressure (E)	Pa	10	50	63	19	50	77	19	50	63	17	50	75	12	50	61	12	50	61	40	50	60	40	50	60
Power input (E)	W	24	57	82	34	69	106	34	85	106	76	143	192	76	167	192	76	167	192	235	280	332	235	280	332
Maximum current absorption	A		0.40			0.56			0.56			1.10			1.10			1.10			2.10			2.10	
Total cooling capacity (1)(E)	kW	0.92	1.70	1.86	1.26	1.88	2.24	1.57	2.67	2.93	1.89	3.13	3.64	2.22	4.20	4.60	2.44	4.76	5.20	6.15	6.66	7.21	6.91	7.49	8.12
Sensible cooling capacity (1)(E)	kW	0.61	1.20	1.31	0.88	1.33	1.57	1.07	1.84	2.01	1.41	2.35	2.78	1.60	3.07	3.36	1.70	3.31	3.62	4.51	4.88	5.29	4.83	5.23	5.67
FCEER class (E)						D						E						D							
Water flow (1)	l/h	160	302	333	221	335	404	274	473	522	339	562	656	394	749	822	432	846	925	1,095	1,191	1,295	1,225	1,333	1,448
Water pressure drop (2)(E)	kPa	2	5	6	3	6	8	3	7	9	3	8	11	2	7	8	3	10	12	13	16	18	20	23	26
Heating capacity (3)(E)	kW	1.14	1.93	2.06	1.55	2.07	2.32	2.09	3.09	3.29	2.80	3.82	4.24	3.40	5.17	5.45	3.40	5.17	5.45	6.42	6.73	7.06	6.42	6.73	7.06
FCCOP class (E)			C			D			C			D						D							
Water flow (3)	l/h	100	169	180	136	181	204	183	271	288	245	334	371	297	452	477	297	452	477	562	590	618	562	590	618
Water pressure drop (3)(E)	kPa	1	2	3	2	3	3	2	3	4	3	5	6	6	13	14	6	13	14	19	21	22	19	21	22
Total sound power level		28	49	52	39	50	54	39	50	54	38	52	58	38	55	58	38	55	58	61	63	69	61	63	69
Additional coil - number of rows (4)	dB(A)											1													
Inlet + radiated sound power level (4)(E)	dB(A)	26	47	50	37	48	52	37	48	52	36	50	56	36	53	56	36	53	56	59	61	67	59	61	67
Outlet sound power level (4)(E)	dB(A)	25	46	49	36	47	51	37	48	51	35	49	55	35	52	55	35	52	55	58	60	66	58	60	66
Water content - standard coil	dm^3		0.47						0.59						0.97										

(1) Water temperature 7°C / 12°C, air temperature dry bulb 27°C, wet bulb 19°C (47% relative humidity) according to EN1397:2015 | (2) Water temperature 7°C / 12°C, air temperature dry bulb 27°C, wet bulb 19°C (47% relative humidity) | (3) Water temperature 65°C / 55°C, air temperature 20°C | (4) Sound power measured according to standards ISO 3741 and ISO 3742 | (5) Sound pressure measured at a distance of 4 m in a free field with a directivity factor of 1 | (E) EUROVENT certified data

Concealed ceiling unit with high ESP

- BLDC fan motor unit for horizontal or vertical mounting. Continuous air flow regulation and fan speed modulation
- Up to 70% energy savings with brushless DC motor technology compared to traditional technology
- Instant adjustment to temperature and relative humidity changes
- Low operating sound level
- Highly flexible solutions: multiple sizes, piping topologies and connection valves
- The air filter can easily be removed for cleaning
- Straight duct connector mounted to discharge side
- Available static pressure up to 120Pa at maximum speed



FWN-AT/AF



FWEC10



FWEC3A



FWEDA



SHINKA TOUCH/SHINKA SENSE/SHINKA ZONE

FWN-AT FWN-AF

Indoor unit			FWN-AT/AF	04	05	06	07	08	10	12	16	18	04	05	06	07	08	10	12	16	18
				2-pipe									4-pipe								
Cooling capacity (standard conditions)	Total capacity	High	kW	3.80	4.65	6.01	6.65	7.57	8.49	12.2	16.8	18.6	3.76	4.61	5.91	6.55	7.46	8.35	12.1	16.6	18.6
		Medium	kW	3.47	4.20	5.65	6.25	6.84	7.62	10.4	14.6	16.2	3.44	4.17	5.58	6.17	6.75	7.52	10.3	14.5	16.0
		Low	kW	2.83	3.38	5.22	5.78	6.20	6.84	8.64	12.3	13.6	2.82	3.36	5.17	5.71	6.14	6.77	8.56	12.2	13.6
	Sensible capacity	High	kW	2.98	3.56	4.47	5.04	6.29	6.83	9.66	13.0	14.3	2.98	3.56	4.47	5.04	6.29	6.83	9.50	13.0	14.3
		Medium	kW	2.70	3.19	4.20	4.73	5.60	6.07	8.07	11.2	12.2	2.70	3.19	4.20	4.73	5.60	6.07	7.98	11.1	12.0
		Low	kW	2.19	2.54	3.90	4.35	5.01	5.40	6.58	9.29	10.1	2.19	2.54	3.90	4.35	5.01	5.40	6.51	9.23	9.99
	Latent capacity	High	kW	0.82	1.09	1.54	1.61	1.28	1.66	2.54	3.80	4.30	0.78	1.05	1.44	1.51	1.17	1.52	2.60	3.60	4.30
Heating capacity (standard conditions)		High	kW	4.05	4.83	6.42	7.26	7.88	8.93	12.7	17.3	19.1	3.91	3.89	5.72	5.65	7.99	7.94	14.4	19.3	19.2
		Medium	kW	3.69	4.36	6.03	6.80	7.11	8.04	10.8	15.0	16.4	3.68	3.66	5.51	5.45	7.47	7.44	12.6	17.2	17.0
		Low	kW	3.04	3.55	5.59	6.29	6.47	7.28	9.06	12.7	13.7	3.23	3.23	5.25	5.21	7.02	6.99	10.9	14.9	14.8
Power input	High		kW	0.112		0.152		0.248		0.305	0.445		0.112		0.152		0.248		0.305	0.445	
	Medium		kW	0.07		0.125		0.17		0.22	0.3		0.073		0.125		0.17		0.22	0.345	
	Low		kW	0.04		0.102		0.124		0.14	0.19		0.04		0.102		0.124		0.144	0.223	
FCEER				C	B	C				B	C		C	B	C				B	C	
FCCOP				B	A	B		C	B	C	B	C	B	A	B		C	B	C	B	C
Dimensions	Unit	HeightxWidthxLength	mm	559x754 x280		559x964 x280		559x1,174 x280		718 x1,174 x353	718x1,384 x353		559x754 x280		559x964 x280		559x1,174 x280		718 x1,174 x353	718x1,384 x353	
Weight	Unit		kg	32.5	33.3	40.6	41.7	47.3	48.7	65.3	77	79.5	34.7	35.5	43.2	44.4	50.3	51.7	71	83	86
Heat exchanger	Water volume		l	1.29	1.64	1.65	2.13	2.16	2.75	2.99	4.51	5.52	1.29	1.64	1.65	2.13	2.16	2.75	2.99	4.51	5.52
Additional heat exchanger	Water volume		l	-									0.93		1.05		1.17		1.78	2.39	
Air filter	Type			Acrylic - Filtering class EU2																	
Fan	Type			Centrifugal																	
	Quantity			1		2							1		2						
	Air flow rate	High	m^3/h	802	791	1,238	1,203	1,606	1,581	2,376	3,207	3,174	793	783	1,211	1,182	1,576	1,550	2,332	3,187	3,154
		Medium	m^3/h	700	692	1,134	1,107	1,384	1,371	1,898	2,641	2,604	694	686	1,115	1,088	1,362	1,349	1,871	2,626	2,590
		Low	m^3/h	534	532	1,019	1,000	1,207	1,198	1,483	2,092	2,074	531	529	1,005	985	1,192	1,184	1,468	2,083	2,065
Total sound power level	High		dBA	66		69		72		74	78		66		69		72		74	78	
	Medium		dBA	61		63		67			73		61		63		67			73	
	Low		dBA	54		59		61		62	60	69	54		59		61		62	60	69
Sound pressure level	High		dBA	59		58		64		67	69		59		58		64		67	69	
	Medium		dBA	51		55		58		60	66	65	51		55		58		60	66	65
	Low		dBA	46		53		55		53	61		46		53		55		53	61	
Water flow	Cooling	High	l/h	672	828	1,065	1,202	1,346	1,530	2,158	2,936	3,270	666	810	1,040	1,148	1,343	1,524	2,160	2,936	3,270
		Medium	l/h	551	666	989	1,112	1,206	1,350	1,835	2,584	2,831	602	727	978	1,079	1,203	1,350	1,805	2,542	2,786
		Low	l/h	495	581	936	1,040	1,089	1,276	1,516	2,150	2,365	491	584	904	998	1,085	1,207	1,475	2,150	2,389
	Heating	High	l/h	706	850	1,122	1,296	1,373	1,579	2,206	2,988	3,315	342	340	501	496	708		1,278	1,688	
		Medium	l/h	587	694	1,047	1,203	1,239	1,411	1,892	2,640	2,861	322	320	483	477	660		1,104	1,500	1,480
		Low	l/h	531	611	994	1,126	1,128	1,264	1,581	2,211	2,388	283		460	456	619		940	1,309	
Electric heater	Power input (Optional)		kW	2.0		6.0		9.0			12										
Piping connections	Drain	OD	mm	17																	
Water content	Primary coil		dm^3	1.29	1.64	1.65	2.13	2.16	2.75	2.99	4.51	5.52	1.29	1.64	1.65	2.13	2.16	2.75	2.99	4.51	5.52
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230																	
Control systems	Wired remote control			FWEC3A / FWECSA / FWTOUCH / FWEC10																	

For standard conditions refer to the Measuring Conditions table, at the end of this catalogue

Concealed ceiling unit with high ESP

- AC fan motor unit for horizontal or vertical concealed mounting
- Quick fixing system for wall or ceiling mounted installation
- Straight duct connector mounted to discharge side
- The air filter can easily be removed for cleaning
- Available static pressure up to 180Pa at maximum speed



FWD-AT/AF



FWEC2T/4T



FWEC1,2,3A



FWEDA



SHINKA TOUCH/SHINKA SENSE/SHINKA ZONE

FWD-AT FWD-AF

Indoor unit			FWD-AT/AF	04	06	08	10	12	16	18	04	06	08	10	12	16	18
				2-pipe							4-pipe						
Cooling capacity (standard conditions)	Total capacity	High	kW	3.65	5.71	7.33	8.25	11.86	15.92	17.74	3.62	5.60	7.20	8.10	11.66	15.84	17.66
		Medium	kW	3.36	5.39	6.63	7.41	10.12	13.83	15.36	3.33	5.32	6.54	7.31	10.00	13.77	15.29
		Low	kW	2.74	4.99	6.03	6.68	8.42	11.63	12.92	2.73	4.92	5.97	6.61	8.33	11.59	12.87
	Sensible capacity	High	kW	2.83	4.16	6.04	6.58	9.22	12.21	13.49	2.80	4.08	5.94	6.46	9.06	12.14	13.41
		Medium	kW	2.59	3.94	5.39	5.86	7.75	10.43	11.40	2.57	3.89	5.31	5.77	7.66	10.38	11.34
		Low	kW	2.10	3.66	4.84	5.23	6.35	8.61	9.37	2.09	3.60	4.79	5.17	6.29	8.58	9.34
Heating capacity (standard conditions)		High	kW	4.05	6.42	7.88	8.93	12.72	17.29	19.05	3.91	5.72	7.99	7.94	14.43	19.30	19.20
		Medium	kW	3.69	6.03	7.11	8.04	10.84	15.05	16.40	3.68	5.51	7.47	7.44	12.63	17.17	17.03
		Low	kW	3.04	5.59	6.47	7.28	9.06	12.68	13.73	3.23	5.25	7.02	6.99	10.86	14.88	14.79
Power input	High		kW	0.265	0.460	0.505		0.750	1.300		0.265	0.460	0.505		0.750	1.300	
	Medium		kW	0.19	0.39	0.38		0.54	1.09		0.19	0.39	0.38		0.54	1.09	
	Low		kW	0.14	0.35	0.29		0.37	0.87		0.14	0.35	0.29		0.37	0.87	
Dimensions	Unit	HeightxWidthxLength	mm	559x754x280	559x964x280	559x1,170x280		718x1,170x353	718x1,380x353		559x754x280	559x964x280	559x1,170x280		718x1,170x353	718x1,380x353	
Weight	Unit		kg	32.5	40.6	47.3	48.7	65.3	77.0	79.5	34.7	43.2	50.3	51.7	70.9	83.4	85.9
Air filter	Type			Acrylic fiber - Filtering class G2 (G4 on request)													
Fan	Type			Centrifugal													
	Quantity			1	2						1	2					
	Air flow rate	High	m^3/h	802	1,241	1,609	1,584	2,380	3,206	3,175	794	1,212	1,573	1,550	2,328	3,186	3,155
		Medium	m^3/h	700	1,134	1,384	1,371	1,898	2,641	2,604	694	1,115	1,362	1,349	1,871	2,626	2,590
		Low	m^3/h	534	1,021	1,208	1,200	1,485	2,092	2,073	532	1,004	1,194	1,186	1,466	2,084	2,065
Total sound power level	High		dBA	66.0	69.0	72.0		74.0	78.0		66.0	69.0	72.0		74.0	78.0	
	Medium		dBA	61.0	63.0	67.0			73.0		61.0	64.0	67.0			73.0	
	Low		dBA	54.0	59.0	62.0		60.0	69.0		54.0	61.0	62.0		60.0	69.0	
Sound pressure level	High		dBA	61.0	64.0	67.0		69.0	73.0		61.0	64.0	67.0		69.0	73.0	
	Medium		dBA	56.0	58.0	62.0			68.0		56.0	59.0	62.0			68.0	
	Low		dBA	49.0	54.0	57.0		55.0	64.0		49.0	56.0	57.0		55.0	64.0	
Electric heater	Power input (Optional)		kW	2.0	6.0	9.0			12.0		2.0	6.0	9.0			12.0	
Piping connections	Drain	OD	mm	17													
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230													
Control systems	Wired remote control			FWEC3A/FWEDA/SHINKA/FWEC2T/4T													

For standard conditions refer to the Measuring Conditions table, at the end of this catalogue

Wall mounted unit

- AC fan motor unit for wall mounting
- High aesthetic cabinet design
- Optimum air distribution
- Easy to install
- Wireless remote control up to 9 m distance
- 3-speed fan motor
- Wide operating range
- Low operating sound level thanks to tangential fan
- Insulated with self-extinguishing class 1 heat insulation
- Removable washable air filter (self-extinguishing class 1)



FWT-GT



MERCA



WRC-HPC

FWT-GT

Indoor unit				FWT-GT	02	03	04	05	06
					2-pipe				
Cooling capacity (standard conditions)	Total capacity	High	kW		2.40	2.67	3.27	4.49	5.21
		Medium	kW		2.20	2.23	2.79	4.02	4.32
		Low	kW		1.94	2.02	2.52	3.76	4.04
	Sensible capacity	High	kW		1.82	1.99	2.60	3.38	4.03
		Medium	kW		1.73	1.69	2.21	3.00	3.52
		Low	kW		1.50	1.49	1.91	2.77	3.22
Heating capacity (standard conditions)		High	kW		2.71	2.96	3.71	5.07	6.23
		Medium	kW		2.41	2.62	3.29	4.51	5.38
		Low	kW		2.06	2.25	2.75	4.03	4.83
Power input	High		kW		0.031	0.032	0.042	0.053	0.072
	Medium		kW		0.03		0.04	0.05	0.07
	Low		kW		0.03			0.04	0.06
FCEER					D			C	D
FCCOP					C				
Dimensions	Unit	HeightxWidthxLength	mm		288x800x206			310x1,070x224	
Weight	Unit		kg		9.00			14.0	
Casing	Colour				White				
Air filter	Type				Washable Saranet				
Fan	Type				Cross flow fan				
	Quantity				1				
	Air flow rate	High	m^3/h		442	476	629	866	1,053
		Medium	m^3/h		391	425	544	765	883
		Low	m^3/h		340	374	442	663	782
Total sound power level	High		dBA		45.0	48.0	55.0		59.0
	Medium		dBA		41.0	44.0	50.0	51.0	54.0
	Low		dBA		36.0	39.0	45.0	47.0	51.0
Sound pressure level	High		dBA		34.0	35.0	42.0		46.0
	Medium		dBA		29.0	30.0	39.0	38.0	42.0
	Low		dBA		25.0		32.0	34.0	39.0
Piping connections	Drain	OD	mm		19				
Power supply	Phase/Frequency/Voltage		Hz/V		1N~/50/220-240				
Control systems	Infrared remote control				WRC-HPC				
	Wired remote control				MERCA				

For standard conditions refer to the Measuring Conditions table, at the end of this catalogue

Wall mounted unit

- BLDC fan motor unit for wall mounting
- Modern white panel design
- DC fan-motor
- 5 different sizes from 2.4 kW to 5.3 kW
- 230V ON-OFF internal 3-way valve available as factory mounted
- 2-way valve available as supplied loose accessory
- Double filtration stage (Gin-Ion filter + PM2.5 filter)
- Daikin Flash Streamer technology integrated
- Modbus gateway available as accessory for BMS integration



Flash Streamer

FWT-HT



BRC51D67



ARC485B2

Indoor unit				FWT-HT	02	03	04	05	06
							2-pipe		
Cooling capacity (standard conditions)	Latent capacity	High		kW	0.66 (1)	0.63 (1)	0.88 (1)	0.98 (1)	1.09 (1)
	Total capacity	High		kW	2.43 (1)	2.70 (1)	3.49 (1)	4.54 (1)	5.28 (1)
		Medium		kW	2.32 (1)	2.55 (1)	3.19 (1)	4.07 (1)	4.54 (1)
		Low		kW	2.11 (1)	2.23 (1)	2.58 (1)	3.37 (1)	4.07 (1)
	Sensible capacity	High		kW	1.77 (1)	2.07 (1)	2.61 (1)	3.56 (1)	4.19 (1)
		Medium		kW	1.70 (1)	1.85 (1)	2.37 (1)	3.17 (1)	3.58 (1)
		Low		kW	1.52 (1)	1.61 (1)	1.88 (1)	2.64 (1)	3.19 (1)
Heating capacity (standard conditions)		High		kW	2.73 (2)	2.96 (2)	3.72 (2)	4.89 (2)	6.24 (2)
		Medium		kW	2.37 (2)	2.40 (2)	3.19 (2)	4.54 (2)	4.89 (2)
		Low		kW	1.96 (2)	2.02 (2)	2.64 (2)	4.04 (2)	4.54 (2)
Power input	High			kW	0.010	0.012	0.020	0.025	0.043
	Medium			kW	0.008	0.009	0.016	0.020	0.027
	Low			kW	0.007	0.007	0.010	0.015	0.020
FCEER					A (1)	A (1)	A (1)	A (1)	B (1)
FCCOP					A (2)	A (2)	B (2)	B (2)	B (2)
Dimensions	Unit	HeightxWidthxLength		mm	288x870x234			317x1,089X275	
	Packed unit	HeightxWidthxLength		mm	314x930x357			366x1,173x395	
Weight	Unit			kg	10.0			14.6	
	Packed unit			kg	11.8			17.1	
Casing	Colour				White				
	Material				High impact polystyrene				
Air direction control					Automatic louver (up & down)				
Air filter	Type				Gin-Ion filter + PM2.5 filter				
	Quantity				2				
Air flow rate	High			m^3/h	442 (3)	476 (3)	629 (3)	866 (3)	1,053 (3)
	Medium			m^3/h	391 (3)	416 (3)	544 (3)	765 (3)	883 (3)
	Low			m^3/h	340 (3)	357 (3)	425 (3)	663 (3)	782 (3)
Total sound power level	High			dBA	46 (4)	49 (4)	55 (4)		59 (4)
	Medium			dBA	43 (4)	44 (4)	52 (4)	51 (4)	54 (4)
	Low			dBA	39 (4)	39 (4)	45 (4)	48 (4)	51 (4)
Sound pressure level	High			dBA	34 (5)	35 (5)	42 (5)		46 (5)
	Medium			dBA	29 (5)	30 (5)	39 (5)	38 (5)	42 (5)
	Low			dBA	25 (5)	26 (5)	32 (5)	34 (5)	39 (5)
Piping connections	Water	Inlet			3/4''				
		Outlet			3/4''				
	Drain	OD		mm	16.5				
Power supply	Phase/Frequency/Voltage			Hz/V	1~/ 50 / 220-240				
Fan motor	Power input		High		0.007	0.007	0.010	0.015	0.020
			Medium		0.008	0.009	0.016	0.020	0.027
			Low		0.010	0.012	0.020	0.025	0.043
	Running current		High		0.07	0.07	0.09	0.11	0.16
			Medium		0.08	0.08	0.12	0.16	0.22
			Low		0.10	0.10	0.16	0.22	0.32
Control systems	Infrared remote control				ARC485B2				
	Wired remote control				BRC51D67				

(1) Cooling: indoor temp. 27°CDB, 19°CWB; entering water temp. 7°C, water temperature rise 5K. | (2) Heating: 2 pipe: air 20°CDB; entering water 45°C, water temperature drop 5K. | (3) Air flow at 0Pa ESP | (4) Sound power level according to ISO3741 | (5) Sound pressure measured at 1m in front of the unit and 0.8m below the vertical centre line of the unit (JIS C 9612).
For standard conditions refer to the Measuring Conditions table, at the end of this catalogue

Indoor units		FWC-BT/BF	FWF-BT/BF	FWF-DT/DF	FWC-DT/DF	FWH-AT/AF	FWI-AT/AF	FWZ-AT/AF	FWV-DAT/DAF	FWR-AT/AF
Panels	Decoration panel 600x600		BYFQ60B	BYFQ60B	BYCQ140C	FPAN02A (2 up to 4 class)	FPAN02A (2 up to 4 class)			
	Decoration panel 900x900	BYCQ140C				FPAN06A (6 up to 8 class)	FPAN06A (6 up to 8 class)			
	Coanda effect decoration panel 600x600					FCND02A (2 up to 4 class)	FCND02A (2 up to 4 class)			
	Design panel			BYFQ60CW (white) BYFQ60CS (silver)	BYCQ140E (standard) BYCQ140EB (black) BYCQ140EW (white)					
	Adaptor for design panel			EKRP1CAS5A	EKRP1CAS5A					
	Panel spacer for reducing required installation height	KDBQ44B60	KDBQ44B60	KDBQ44B60						
	Sealing member of air discharge outlet	KDBHQ55C140	KDBH44BA60	KDBH44BA60	KDBHQ55C140					
	Spigot for fresh air					SPFAI1A (2 up to 4 class) SPFAI2A (6 up to 8 class)	SPFAI1A (2 up to 4 class) SPFAI2A (6 up to 8 class)			
	Air distribution plenum					PPAI02A (2 up to 4 class) PPAI06A (6 up to 8 class)	PPAI02A (2 up to 4 class) PPAI06A (6 up to 8 class)			
	Rear panel							ERPV02A6 (2 class) ERPV03A6 (3 class) ERPV06A6 (6 class) ERPV10A6 (8 class)	ERPV02A6 (1, 15 & 2 class) ERPV03A6 (25 & 3 class) ERPV06A6 (35, 4 & 6 class) ERPV10A6 (8 & 10 class)	ERPV02A6 (2 class) ERPV03A6 (3 class) ERPV06A6 (6 class) ERPV10A6 (8 class)
	Air intake & discharge grille							EAIDF02A6 (2 class) EAIDF03A6 (3 class) EAIDF06A6 (6 class) EAIDF10A6 (10 class)	EAIDF02A6 (1, 15 & 2 class) EAIDF03A6 (25 & 3 class) EAIDF06A6 (35, 4 & 6 class) EAIDF10A6 (8 & 10 class)	EAIDF02A6 (2 class) EAIDF03A6 (3 class) EAIDF06A6 (6 class) EAIDF10A6 (10 class)
Individual control systems & network	Wired remote controller (standard)	BRC1HF	BRC1HF			FWEC1A			FWEC1A	
	Wired remote controller (advanced)					FWEC2A			FWEC2A	
	Wired remote controller (advanced Plus)			FWEC3A	FWEC3A	FWEC3A	FWEC3A	FWEC3A	FWEC3A	FWEC3A
	Simplified electronic controller (2 pipe)			FWEC10	FWEC10	FWEC2T	FWEC10	FWEC10	FWEC2T	FWEC10
	Simplified electronic controller (4 pipe)			FWEC10	FWEC10	FWEC4T	FWEC10	FWEC10	FWEC4T	FWEC10
	Wireless controller	BRC7F532F	BRC7E530							
	Controller electromechanical								ECFWMB6	
	Split controller - power control board			FWEDA	FWEDA	FWEDA	FWEDA	FWEDA	FWEDA	FWEDA
	Split controller - touch screen control panel			SHINKASENSEWA SHINKATOUCHBA SHINKATOUCHWA SHINKAZONEBA SHINKAZONEWA	SHINKASENSEWA SHINKATOUCHBA SHINKATOUCHWA SHINKAZONEBA SHINKAZONEWA	SHINKASENSEWA SHINKATOUCHBA SHINKATOUCHWA SHINKAZONEBA SHINKAZONEWA	SHINKASENSEWA SHINKATOUCHBA SHINKATOUCHWA SHINKAZONEBA SHINKAZONEWA	SHINKASENSEWA SHINKATOUCHBA SHINKATOUCHWA SHINKAZONEBA SHINKAZONEWA	SHINKASENSEWA SHINKATOUCHBA SHINKATOUCHWA SHINKAZONEBA SHINKAZONEWA	SHINKASENSEWA SHINKATOUCHBA SHINKATOUCHWA SHINKAZONEBA SHINKAZONEWA
	On-board mounting kit for wired remote controller							FWECKA	FWECKA	FWECKA
	On-board mounting kit for simplified controller							FWCKRX (right side) FWCKLX (left side)	FWCKRX (right side) FWCKLX (left side)	FWCKRX (right side) FWCKLX (left side)
	Wall-mounting kit for wired remote controller			FWFCKA	FWFCKA	FWFCKA	FWFCKA	FWFCKA	FWFCKA	FWFCKA
	Wall-mounting kit for wired remote controller	DCS302CA51	DCS302CA51							
Centralised control systems	Central remote control	DCS301BA51	DCS301BA51							
	Unified ON/OFF control	DST301BA51	DST301BA51							
	Schedule timer	DCM601A5A	DCM601A5A							
Building Management System & Standard protocol interface	Intelligent Touch Manager	DCS601C51C	DCS601C51C							
	Intelligent Touch Controller	DCS601C51C	DCS601C51C							

	FWL-DAT/DAF	FWS-AT/AF	FWM-DAT/DAF	FWE-DT/DF	FWE-FT/FF	FWP-CT/CF	FWB-CT/CF	FWD-AT/AF	FWN-AT/AF	FWT-GT	FWT-HT
	ERPV02A6 (1, 15 & 2 class) ERPV03A6 (25 & 3 class) ERPV06A6 (35, 4 & 6 class) ERPV10A6 (8 & 10 class)										
	EAIDF02A6 (1, 15 & 2 class) EAIDF03A6 (25 & 3 class) EAIDF06A6 (35, 4 & 6 class) EAIDF10A6 (8 & 10 class)	EAIDF02A6 (2 class) EAIDF03A6 (3 class) EAIDF06A6 (6 class) EAIDF10A6 (10 class)	EAIDF02A6 (1, 15 & 2 class) EAIDF03A6 (25 & 3 class) EAIDF06A6 (35, 4 & 6 class) EAIDF10A6 (8 & 10 class)								
	FWEC1A		FWEC1A	FWEC1A	FWEC1A		FWEC1A	FWEC1A		MERCA	BRC51D67
	FWEC2A		FWEC2A	FWEC2A	FWEC2A		FWEC2A	FWEC2A			
	FWEC3A	FWEC3A	FWEC3A	FWEC3A	FWEC3A	FWEC3A	FWEC3A	FWEC3A	FWEC3A		
	FWEC2T	FWEC10	FWEC2T	FWEC2T	FWEC2T	FWEC10	FWEC2T	FWEC2T	FWEC10		
	FWEC4T	FWEC10	FWEC4T	FWEC4T	FWEC4T	FWEC10	FWEC4T	FWEC4T	FWEC10		
										WRC-HPC	ARC485B2
	ECFWMB6		ECFWMB6								
	FWEDA	FWEDA	FWEDA	FWEDA	FWEDA	FWEDA	FWEDA	FWEDA	FWEDA		
	SHINKASENSEWA SHINKATOUCHBA SHINKATOUCHWA SHINKAZONEBA SHINKAZONEWA	SHINKASENSEWA SHINKATOUCHBA SHINKATOUCHWA SHINKAZONEBA SHINKAZONEWA	SHINKASENSEWA SHINKATOUCHBA SHINKATOUCHWA SHINKAZONEBA SHINKAZONEWA	SHINKASENSEWA SHINKATOUCHBA SHINKATOUCHWA SHINKAZONEBA SHINKAZONEWA	SHINKASENSEWA SHINKATOUCHBA SHINKATOUCHWA SHINKAZONEBA SHINKAZONEWA	SHINKASENSEWA SHINKATOUCHBA SHINKATOUCHWA SHINKAZONEBA SHINKAZONEWA	SHINKASENSEWA SHINKATOUCHBA SHINKATOUCHWA SHINKAZONEBA SHINKAZONEWA	SHINKASENSEWA SHINKATOUCHBA SHINKATOUCHWA SHINKAZONEBA SHINKAZONEWA	SHINKASENSEWA SHINKATOUCHBA SHINKATOUCHWA SHINKAZONEBA SHINKAZONEWA		
	FWECKA										
	FWCKRX (right side) FWCKLX (left side)										
	FWFCKA	FWFCKA	FWFCKA	FWFCKA	FWFCKA	FWFCKA	FWFCKA	FWFCKA	FWFCKA		

Indoor units		FWC-BT/BF	FWF-BT/BF	FWF-DT/DF	FWC-DT/DF	FWH-AT/AF	FWI-AT/AF	FWZ-AT/AF	FWV-DAT/DAF	FWR-AT/AF
ON/OFF valves 230V	3-ways 230V ON/OFF valve kit (2-pipe)	EKMV3C09B	EKMV3C09B	EKWV3V3W5A	EK10WV3V3C5A	E2C3V02A (2 up to 4 class) E2C3V06A (6 up to 8 class)	E2C3V02A (2 up to 4 class) E2C3V06A (6 up to 8 class)	E2MV03A6 (2, 3 & 6 class) E2MV10A6 (8 class)	E2MV03A6 (1 up to 35 class) E2MV06A6 (4 & 6 class) E2MV10A6 (8 & 10 class)	E2MV03A6 (2, 3 & 6 class) E2MV10A6 (8 class)
	3-ways 230V ON/OFF valve kit (4-pipe)	EKMV3C09B x2	EKMV3C09B x2	EKWV3V3W5A x2	EK10WV3V3C5A + EK08WV3V3W5A	E4C3V02A (2 up to 4 class) E4C3V06A (6 up to 8 class)	E4C3V02A (2 up to 4 class) E4C3V06A (6 up to 8 class)	E4MV03A6 (2, 3 & 6 class) E4MV10A6 (8 class)	E4MV03A6 (1 up to 35 class) E4MV06A6 (4 & 6 class) E4MV10A6 (8 & 10 class)	E4MV03A6 (2, 3 & 6 class) E4MV10A6 (8 class)
	2-ways 230V ON/OFF valve kit (2-pipe)	EKMV2C09B	EKMV2C09B	EKWV2V3W5A	EK10WV2V3C5A	E2C2V02A (2 up to 4 class) E2C2V06A (6 up to 8 class)	E2C2V02A (2 up to 4 class) E2C2V06A (6 up to 8 class)			
	2-ways 230V ON/OFF valve kit (4-pipe)	EKMV2C09B x 2	EKMV2C09B x 2	EKWV2V3W5A x 2	EK10WV2V3C5A + EK08WV2V3W5A	E4C2V02A (2 up to 4 class) E4C2V06A (6 up to 8 class)	E4C2V02A (2 up to 4 class) E4C2V06A (6 up to 8 class)			
	2-ways 230V ON/OFF valve kit (cooling heat exchanger)							E2MV2B07A6 (2, 3 & 6 class) E2MV2B10A6 (8 class)	E2MV2B07A6 (1 up to 6 class) E2MV2B10A6 (8 & 10 class)	E2MV2B07A6 (2 up to 6 class) E2MV2B10A6 (8 class)
	2-ways 230V ON/OFF valve kit (additional heat exchanger)							E2MV2B07A6	E2MV2B07A6	E2MV2B07A6
	3-ways 230V ON/OFF valve kit (additional heat exchanger)									
	Simplified 3-ways 230V ON/OFF valve kit (2-pipe)							E2MVD03A6 (2 & 3 class) E2MVD06A6 (6 class) E2MVD10A6 (8 class)	E2MVD03A6 (1 up to 35 class) E2MVD06A6 (4 & 6 class) E2MVD10A6 (8 & 10 class)	E2MVD03A6 (2 & 3 class) E2MVD06A6 (6 class) E2MVD10A6 (8 class)
	Simplified 3-ways 230V ON/OFF valve kit (4-pipe)							E4MVD03A6 (2 & 3 class) E4MVD06A6 (6 class) E4MVD10A6 (8 class)	E4MVD03A6 (1 up to 35 class) E4MVD06A6 (4 & 6 class) E4MVD10A6 (8 & 10 class)	E4MVD03A6 (2 & 3 class) E4MVD06A6 (4 & 6 class) E4MVD10A6 (8 & 10 class)
ON/OFF valves 24V	3-ways 24V ON/OFF valve kit (cooling heat exchanger)					E2C324V02A (2 up to 4 class) E2C324V06A (6 up to 8 class)	E2C324V02A (2 up to 4 class) E2C324V06A (6 up to 8 class)	E2M2V03A6 (2 & 3 class) E2M2V06A6 (6 class) E2M2V10A6 (8 class)	E2M2V03A6 (1 up to 35 class) E2M2V06A6 (4 & 6 class) E2M2V10A6 (8 & 10 class)	E2M2V03A6 (2 & 3 class) E2M2V06A6 (6 class) E2M2V10A6 (8 class)
	3-ways 24V ON/OFF valve kit (4-pipe)					E4C324V02A (2 up to 4 class) E4C324V06A (6 up to 8 class)	E4C324V02A (2 up to 4 class) E4C324V06A (6 up to 8 class)	E4M2V03A6 (2 & 3 class) E4M2V06A6 (6 class) E4M2V10A6 (8 class)	E4M2V03A6 (1 up to 35 class) E4M2V06A6 (4 & 6 class) E4M2V10A6 (8 & 10 class)	E4M2V03A6 (2 & 3 class) E4M2V06A6 (6 class) E4M2V10A6 (8 class)
	2-ways 24V ON/OFF valve kit (cooling heat exchanger)					E2C224V02A (2 up to 4 class) E2C224V06A (6 up to 8 class)	E2C224V02A (2 up to 4 class) E2C224V06A (6 up to 8 class)	E2M2V207A6 (2, 3 & 6 class) E2M2V210A6 (8 class)	E2M2V207A6 (1 up to 6 class) E2M2V210A6 (8 & 10 class)	E2M2V207A6 (2, 3 & 6 class) E2M2V210A6 (8 class)
	2-ways 24V ON/OFF valve kit (additional heat exchanger)					E4C224V02A (2 up to 4 class) E4C224V06A (6 up to 8 class)	E4C224V02A (2 up to 4 class) E4C224V06A (6 up to 8 class)	E2M2V207A6	E2M2V207A6	E2M2V207A6
	2-ways 24V ON/OFF valve kit (4-pipe)									

FWL-DAT/DAF	FWS-AT/AF	FWM-DAT/DAF	FWE-DT/DF	FWE-FT/FF	FWP-CT/CF	FWB-CT/CF	FWD-AT/AF	FWN-AT/AF	FWT-GT	FWT-HT
E2MV03A6 (1 up to 35 class) E2MV06A6 (4 & 6 class) E2MV10A6 (8 & 10 class)	E2MV03A6 (2, 3 & 6 class) E2MV10A6 (8 class)	E2MV03A6 (1 up to 35 class) E2MV06A6 (4 & 6 class) E2MV10A6 (8 & 10 class)	E3V2VN02V3WA	EK02WV3V3W5A (4 up to 10 class) EK04WV3V3W5A (14 & 16 class) EK06WV3V3W5A (20 & 24 class)	E4V2N05OV3WA (4 & 5 class) E4V2N08OV3WA (6 & 8 class) E2MV10B6 (10 up to 17 class)	E4V2N05OV3WA (4 & 5 class) E4V2N08OV3WA (6 & 8 class) E2MV10B6 (10 up to 17 class)	ED2MV04A6 (4 class) ED2MV10A6 (6, 8 & 10 class) ED2MV18A6 (12 up to 18 class)	ED2MV04A6 (4 & 5 class) ED2MV10A6 (6 up 10 class) ED2MV18A6 (12 up to 18 class)		
E4MV03A6 (1 up to 35 class) E4MV06A6 (4 & 6 class) E4MV10A6 (8 & 10 class)	E4MV03A6 (2, 3 & 6 class) E4MV10A6 (8 class)	E4MV03A6 (1 up to 35 class) E4MV06A6 (4 & 6 class) E4MV10A6 (8 & 10 class)	E3V4VN02V3WA	EK02WV3V3W5A x 2 (4 up to 10 class) EK04WV3V3W5A x 2 (14 & 16 class) EK06WV3V3W5A x 2(20 & 24 class)	E4V2N05OV3WA + E4VHN08OV3WA (4 up to 5 class) E4V2N08OV3WA + E4VHN08OV3WA (6 up to 8 class) E2MV10B6 + E4VHN17OV3WA (10 up to 17 class)	E4V2N05OV3WA + E4VHN08OV3WA (4 up to 5 class) E4V2N08OV3WA + E4VHN08OV3WA (6 up to 8 class) E2MV10B6 + E4VHN17OV3WA (10 up to 17 class)	ED4MV04A6 (4 class) ED4MV10A6 (6, 8 & 10 class) ED4MV18A6 x 2 (12 up to 18 class)	ED4MV04A6 (4 & 5 class) ED4MV10A6 (6 up 10 class) ED2MV18A6 x2 (12 up to 18 class)		
			E2V2VN01V3WA	EK02WV2V3W5A (4 up to 10 class) EK04WV2V3W5A (14 & 16 class) EK06WV2V3W5A (20 & 24 class)			ED2MV2B04A6 (4 class) ED2MV2B10A6 (6 up 10 class) ED2MV2B18A6 (12 up to 18 class)	ED2MV2B04A6 (4 & 5 class) ED2MV2B10A6 (6 up 10 class) ED2MV2B18A6 (12 up to 18 class)		
			E2V4VN01V3WA	EK02WV2V3W5A (4 up to 10 class) EK04WV2V3W5A (14 & 16 class) EK06WV2V3W5A (20 & 24 class)	E2MV2B07A6 + E2MV2B07A6 (4 up to 8 class) E2MV2B10A6 + E2MV2B07A6 (10 up to 17 class)	E2MV2B07A6 + E2MV2B07A6 (4 up to 8 class) E2MV2B10A6 + E2MV2B07A6 (10 up to 17 class)	ED4MV2B04A6 (4 class) ED4MV2B10A6 (6 up 10 class) ED2MV2B18A6 x2 (12 up to 18 class)	ED4MV2B04A6 (4 & 5 class) ED4MV2B10A6 (6 up 10 class) ED2MV2B18A6 x2 (12 up to 18 class)		
E2MV2B07A6 (1 up to 6 class) E2MV2B10A6 (8 & 10 class)	E2MV2B07A6 (2 up to 6 class) E2MV2B10A6 (8 class)	E2MV2B07A6 (1 up to 6 class) E2MV2B10A6 (8 & 10 class)			E2MV2B07A6 (4 up to 8 class) E2MV2B10A6 (10 up to 17 class)	E2MV2B07A6 (4 up to 8 class) E2MV2B10A6 (10 up to 17 class)				
E2MV2B07A6	E2MV2B07A6	E2MV2B07A6			E2MV2B07A6	E2MV2B07A6				
					E4VHN08OV3WA (4 up to 8 class) E4VHN17OV3WA (10 up to 17 class)	E4VHN08OV3WA (4 up to 8 class) E4VHN17OV3WA (10 up to 17 class)				
E2MVD03A6 (1 up to 35 class) E2MVD06A6 (4 & 6 class) E2MVD10A6 (8 & 10 class)	E2MVD03A6 (2 & 3 class) E2MVD06A6 (6 class) E2MVD10A6 (8 class)	E2MVD03A6 (1 up to 35 class) E2MVD06A6 (4 & 6 class) E2MVD10A6 (8 & 10 class)								
E4MVD03A6 (1 up to 35 class) E4MVD06A6 (4 & 6 class) E4MVD10A6 (8 & 10 class)	E4MVD03A6 (2 & 3 class) E4MVD06A6 (4 & 6 class) E4MVD10A6 (8 & 10 class)	E4MVD03A6 (1 up to 35 class) E4MVD06A6 (4 & 6 class) E4MVD10A6 (8 & 10 class)								
E2M2V03A6 (1 up to 35 class) E2M2V06A6 (4 & 6 class) E2M2V10A6 (8 & 10 class)	E2M2V03A6 (2 & 3 class) E2M2V06A6 (6 class) E2M2V10A6 (8 class)	E2M2V03A6 (1 up to 35 class) E2M2V06A6 (4 & 6 class) E2M2V10A6 (8 & 10 class)			E4V2N05O24WA (4 & 5 class) E4V2N08O24WA (6 & 8 class) E4V2N17O24WA (10 up to 17 class)	E4V2N05O24WA (4 & 5 class) E4V2N08O24WA (6 & 8 class) E4V2N17O24WA (10 up to 17 class)				
E4M2V03A6 (1 up to 35 class) E4M2V06A6 (4 & 6 class) E4M2V10A6 (8 & 10 class)	E4M2V03A6 (2 & 3 class) E4M2V06A6 (6 class) E4M2V10A6 (8 class)	E4M2V03A6 (1 up to 35 class) E4M2V06A6 (4 & 6 class) E4M2V10A6 (8 & 10 class)								
E2M2V207A6 (1 up to 35 class) E2M2V210A6 (8 & 10 class)	E2M2V207A6 (2, 3 & 6 class) E2M2V210A6 (8 class)	E2M2V207A6 (1 up to 35 class) E2M2V210A6 (8 & 10 class)			E2M2V207A6 (4 up to 8 class) E2M2V210A6 (10 up to 17 class)	E2M2V207A6 (4 up to 8 class) E2M2V210A6 (10 up to 17 class)				
E2M2V207A6	E2M2V207A6	E2M2V207A6			E2M2V207A6	E2M2V207A6				
					E2M2V207A6 + E2M2V207A6 (4 up to 8 class) E2M2V210A6 + E2M2V207A6 (10 up to 17 class)	E2M2V207A6 + E2M2V207A6 (4 up to 8 class) E2M2V210A6 + E2M2V207A6 (10 up to 17 class)				

	Indoor units	FWC-BT/BF	FWF-BT/BF	FWF-DT/DF	FWC-DT/DF	FWH-AT/AF	FWI-AT/AF	FWZ-AT/AF	FWV-DAT/DAF	FWR-AT/AF
Proportional valves	3-ways proportional valve kit (2-pipe)					E2C3PV02A (2 up to 4 class) E2C3PV06A (6 up to 8 class)	E2C3PV02A (2 up to 4 class) E2C3PV06A (6 up to 8 class)	E2MPV03A6 (2 & 3 class) E2MPV06A6 (6 class) E2MPV10A6 (8 class)	E2MPV03A6 (1 up to 35 class) E2MPV06A6 (4 & 6 class) E2MPV10A6 (8 & 10 class)	E2MPV03A6 (2 & 3 class) E2MPV06A6 (6 class) E2MPV10A6 (8 class)
	3-ways proportional valve kit (additional heat exchanger)					E4C3PV02A (2 up to 4 class) E4C3PV06A (6 up to 8 class)	E4C3PV02A (2 up to 4 class) E4C3PV06A (6 up to 8 class)			
	3-ways proportional valve kit (4-pipe)							E4MPV03A6 (2 & 3 class) E4MPV06A6 (6 class) E4MPV10A6 (8 class)	E4MPV03A6 (1 up to 35 class) E4MPV06A6 (4 & 6 class) E4MPV10A6 (8 & 10 class)	E4MPV03A6 (2 & 3 class) E4MPV06A6 (6 class) E4MPV10A6 (8 class)
	2-ways proportional valve kit (cooling heat exchanger)					E2C2PV02A (2 up to 4 class) E2C2PV06A (6 up to 8 class)	E2C2PV02A (2 up to 4 class) E2C2PV06A (6 up to 8 class)	E2MPV207A6 (2, 3 & 6 class) E2MPV210A6 (8 class)	E2MPV207A6 (1 up to 6 class) E2MPV210A6 (8 & 10 class)	E2MPV207A6 (2, 3 & 6 class) E2MPV210A6 (8 class)
	2-ways proportional valve kit (additional heat exchanger)					E4C2PV02A (2 up to 4 class) E4C2PV06A (6 up to 8 class)	E4C2PV02A (2 up to 4 class) E4C2PV06A (6 up to 8 class)	E2MPV207A6	E2MPV207A6	E2MPV207A6
	2-ways proportional valve kit (4-pipe)									
Pressure independent controlled valves	Pressure independent controlled valves ON-OFF 230V (2-pipe)					E2C2PICV02A (2 up to 4 class) E2C2PICV06A (6 up to 8 class)	E2C2PICV02A (2 up to 4 class) E2C2PICV06A (6 up to 8 class)	FWZSVPIC2V15 (2 class) FWZSVPIC2V20 (3 & 6 class) FWZSVPIC2V25 (8 class)	FWZSVPIC2V15 (1 class) FWZSVPIC2V20 (15 up to 25 class) FWZSVPIC2V25 (3 up to 6 class) FWZSVPIC2V25 (8 up to 10 class)	FWZSVPIC2V15 (2 class) FWZSVPIC2V20 (3 & 6 class) FWZSVPIC2V25 (8 class)
	Pressure independent controlled valves ON-OFF 230V (4-pipe)					E4C2PICV02A (2 up to 4 class) E4C2PICV06A (6 up to 8 class)	E4C2PICV02A (2 up to 4 class) E4C2PICV06A (6 up to 8 class)	FWZSVPIC2V1515 (2 class) FWZSVPIC2V2015 (3 & 6 class) FWZSVPIC2V2520 (8 class)	FWZSVPIC2V1010 (1 class) FWZSVPIC2V1515 (15 up to 25 class) FWZSVPIC2V2015 (3 up to 6 class) FWZSVPIC2V2520 (8 up to 10 class)	FWZSVPIC2V1515 (2 class) FWZSVPIC2V2015 (3 & 6 class) FWZSVPIC2V2520 (8 class)
	Pressure independent controlled valves modulating 24V (2-pipe)					E2C2PRPICV02A (2 up to 4 class) E2C2PRPICV06A (6 up to 8 class)	E2C2PRPICV02A (2 up to 4 class) E2C2PRPICV06A (6 up to 8 class)			
	Pressure independent controlled valves modulating 24V (4-pipe)					E4C2PRPICV02A (2 up to 4 class) E4C2PRPICV06A (6 up to 8 class)	E4C2PRPICV02A (2 up to 4 class) E4C2PRPICV06A (6 up to 8 class)			
Adapters	Installation box/Mounting plate for adapter PCBs (when there is no space in the switchbox)	KRP1H98A	KRP1BB101							
	Wiring adapter for electrical appendices	KRP2A52 (2) KRP4AA53 (2)	KRP2A52 (2) KRP4AA53 (2)							
	Remote ON/OFF		EKROROA							
	Remote sensor	KRCS01-4	KRCS01-1							
	Optional PCB for MODBUS connection	EKFCMBCB	EKFCMBCB							
	Wiring adapter with 4 output signals for valve control PCB	EKRP1C11	EKRP1C11							
	Temperature sensor kit for wired remote controller			FWTSKA	FWTSKA	FWTSKA	FWTSKA	FWTSKA	FWTSKA	FWTSKA
	Relative humidity sensor kit for wired remote controller			FWHSKA	FWHSKA	FWHSKA	FWHSKA	FWHSKA	FWHSKA	FWHSKA
	Water temperature sensor for simplified controller			FWCSWA	FWCSWA	FWCSWA	FWCSWA	FWCSWA	FWCSWA	FWCSWA
	Fan stop thermostat								YFSTA6	
	Master-slave interface					EPIMSA6			EPIMSA6	
	Power interface									

	FWL-DAT/DAF	FWS-AT/AF	FWM-DAT/DAF	FWE-DT/DF	FWE-FT/FF	FWP-CT/CF	FWB-CT/CF	FWD-AT/AF	FWN-AT/AF	FWT-GT	FWT-HT
	E2MPV03A6 (1 up to 35 class) E2MPV06A6 (4 & 6 class) E2MPV10A6 (8 & 10 class)	E2MPV03A6 (2 & 3 class) E2MPV06A6 (6 class) E2MPV10A6 (8 class)	E2MPV03A6 (1 up to 35 class) E2MPV06A6 (4 & 6 class) E2MPV10A6 (8 & 10 class)	E4V2PN04V3DA (3 up to 5 class) E4V2PN06V3DA (6 up to 8 class) E4V2PN10V3DA (10 & 11 class)		E4V2N05P24WA (4 & 5 class) E4V2N08P24WA (6 & 8 class) E2MPV10A6 (10 up to 17 class)	E4V2N05P24WA (4 & 5 class) E4V2N08P24WA (6 & 8 class) E2MPV10A6 (10 up to 17 class)				
						E4VHN08P24WA (4 up to 8 class) E4VHN17P24WA (10 up to 17 class)	E4VHN08P24WA (4 up to 8 class) E4VHN17P24WA (10 up to 17 class)				
	E4MPV03A6 (1 up to 35 class) E4MPV06A6 (4 & 6 class) E4MPV10A6 (8 & 10 class)	E4MPV03A6 (2 & 3 class) E4MPV06A6 (6 class) E4MPV10A6 (8 class)	E4MPV03A6 (1 up to 35 class) E4MPV06A6 (4 & 6 class) E4MPV10A6 (8 & 10 class)	E4V4PN04V3DA (3 up to 5 class) E4V4PN06V3DA (6 up to 8 class) E4V4PN10V3DA (10 & 11 class)		E4V2N05P24WA + E4VHN08P24WA (4 & 5 class) E4V2N08P24WA + E4VHN08P24WA (6 & 8 class) E2MPV10A6 + E4VHN17P24WA (10 up to 17 class)	E4V2N05P24WA + E4VHN08P24WA (4 & 5 class) E4V2N08P24WA + E4VHN08P24WA (6 & 8 class) E2MPV10A6 + E4VHN17P24WA (10 up to 17 class)				
	E2MPV207A6 (1 up to 6 class) E2MPV210A6 (8 & 10 class)	E2MPV207A6 (2, 3 & 6 class) E2MPV210A6 (8 class)	E2MPV207A6 (1 up to 6 class) E2MPV210A6 (8 & 10 class)			E2MPV207A6 (4 up to 8 class) E2MPV210A6 (10 up to 17 class)	E2MPV207A6 (4 up to 8 class) E2MPV210A6 (10 up to 17 class)				
	E2MPV207A6	E2MPV207A6	E2MPV207A6			E2MPV207A6	E2MPV207A6				
						E2MPV207A6 + E2MPV207A6 (4 up to 8 class) E2MPV210A6 + E2MPV207A6 (10 up to 17 class)	E2MPV207A6 + E2MPV207A6 (4 up to 8 class) E2MPV210A6 + E2MPV207A6 (10 up to 17 class)				
	FWZSVPIC2V15 (1 class) FWZSVPIC2V20 (15 up to 25 class) FWZSVPIC2V25 (3 up to 6 class) FWZSVPIC2V25 (8 up to 10 class)	FWZSVPIC2V15 (2 class) FWZSVPIC2V20 (3 & 6 class) FWZSVPIC2V25 (8 class)	FWZSVPIC2V15 (1 class) FWZSVPIC2V20 (15 up to 25 class) FWZSVPIC2V25 (3 up to 6 class) FWZSVPIC2V25 (8 up to 10 class)			FWBPVPIC2V15 (4 & 6 class) FWBPVPIC2V20A (8 class) FWBPVPIC2V20B (10 class) FWBPVPIC2V25 (11 up to 17 class)	FWBPVPIC2V15 (4 & 6 class) FWBPVPIC2V20 (8 & 10 class) FWBPVPIC2V25 (11 up to 17 class)	FWDNVPIC2V20 (4 & 6 class) FWDNVPIC2V25 (8 & 10 class) FWDNVPIC2V32 (12 up to 18 class)	FWDNVPIC2V20 (4 up to 7 class) FWDNVPIC2V25 (8 & 10 class) FWDNVPIC2V32 (12 up to 18 class)		
	FWZSVPIC2V1010 (1 class) FWZSVPIC2V1515 (15 up to 25 class) FWZSVPIC2V2015 (3 up to 6 class) FWZSVPIC2V2520 (8 up to 10 class)	FWZSVPIC2V1515 (2 class) FWZSVPIC2V2015 (3 & 6 class) FWZSVPIC2V2520 (8 class)	FWZSVPIC2V1010 (1 class) FWZSVPIC2V1515 (15 up to 25 class) FWZSVPIC2V2015 (3 up to 6 class) FWZSVPIC2V2520 (8 up to 10 class)			FWBPVPIC2V1515LF (4 & 5 class) FWBPVPIC2V1515 (6 class) FWBPVPIC2V2015A (8 class) FWBPVPIC2V2015A (10 class) FWBPVPIC2V2515 (11 up to 17 class)	FWBPVPIC2V1515LF (4 & 5 class) FWBPVPIC2V1515 (6 class) FWBPVPIC2V2015A (8 class) FWBPVPIC2V2015A (10 class) FWBPVPIC2V2515 (11 up to 17 class)	FWDNVPIC2V2015 (4 & 6 class) FWDNVPIC2V2520 (8 & 10 class) FWDNVPIC2V3220 (12 class) FWDNVPIC2V3225 (16 to 18 class)	FWDNVPIC2V2015 (4 & 6 class) FWDNVPIC2V2520 (8 & 10 class) FWDNVPIC2V3220 (12 class) FWDNVPIC2V3225 (16 to 18 class)		
											FCBAG
	FWTSKA	FWTSKA	FWTSKA	FWTSKA	FWTSKA	FWTSKA	FWTSKA	FWTSKA	FWTSKA		
	FWHSKA	FWHSKA	FWHSKA	FWHSKA	FWHSKA	FWHSKA	FWHSKA	FWHSKA	FWHSKA		
	FWCSWA	FWCSWA	FWCSWA	FWCSWA	FWCSWA	FWCSWA	FWCSWA	FWCSWA	FWCSWA		
	YFSTA6		YFSTA6				YFSTA6	YFSTA6			
	EPIMSA6		EPIMSA6	EPIMSA6	EPIMSA6		EPIMSA6	EPIMSA6			
								EPIB6 (only 16 & 18 class)			

	Indoor units	FWC-BT/BF	FWF-BT/BF	FWF-DT/DF	FWC-DT/DF	FWH-AT/AF	FWI-AT/AF	FWZ-AT/AF	FWV-DAT/DAF	FWR-AT/AF
Others	Fresh air intake kit (direct installation type)		KDDQ44XA60	KDDQ44XA60						
	Fresh air intake	KDDP55C160-1 + KDDP55D160-2			KDDP55C160-1 + KDDP55D160-2			EFA02A6 (2 class) EFA03A6 (3 class) EFA06A6 (6 class) EFA10A6 (8 class)	EFA02A6 (1, 15 & 2 class) EFA03A6 (25 & 3 class) EFA06A6 (35, 4 & 6 class) EFA10A6 (8 & 10 class)	
	Long-life filter		KAFQ441BA60	KAFQ441BA60	KAF5511D160					
	High efficiency filter				BAF552AA160					
	Electrical box with earth terminal (2 blocks)	KJB212A	KJB212A							
	Electrical box with earth terminal (3 blocks)	KJB311A	KJB311A							
	Eletrical box with earth terminal	KJB411A	KJB411A							
	Electric heater (standard)							EEH02A6 (2 class) EEH03A6 (3 class) EEH06A6 (6 class) EEH10A6 (8 class)	EEH01A6 (1 class) EEH02A6 (15 & 2 class) EEH03A6 (25 & 3 class) EEH06A6 (35, 4 & 6 class) EEH10A6 (8 & 10 class)	EEH02A6 (2 class) EEH03A6 (3 class) EEH06A6 (6 class) EEH10A6 (8 class)
	Electric heater (big)									
	Additional heat exchanger							ESRH02A6 (2 class) ESRH03A6 (3 class) ESRH06A6 (6 class) ESRH10A6 (8 class)	ESRH02A6 (1, 15 & 2 class) ESRH03A6 (25 & 3 class) ESRH06A6 (35, 4 & 6 class) ESRH10A6 (8 & 10 class)	ESRH02A6 (2 class) ESRH03A6 (3 class) ESRH06A6 (6 class) ESRH10A6 (8 class)
	Supporting feet							ESFV06A6 (2, 3 & 6 class) ESFV10A6 (8 class)	ESFV06A6 (1 up to 6 class) ESFV10A6 (8 & 10 class)	
	Supporting feet and grille							ESFVG02A6 (2 class) ESFVG03A6 (3 class) ESFVG06A6 (6 class) ESFVG10A6 (8 class)	ESFVG02A6 (1, 15 & 2 class) ESFVG03A6 (25 & 3 class) ESFVG06A6 (35, 4 & 6 class) ESFVG10A6 (8 & 10 class)	
	Front air intake kit									

	FWL-DAT/DAF	FWS-AT/AF	FWM-DAT/DAF	FWE-DT/DF	FWE-FT/FF	FWP-CT/CF	FWB-CT/CF	FWD-AT/AF	FWN-AT/AF	FWT-GT	FWT-HT
								EDMFA04A6 (4 class) EDMFA06A6 (6 class) EDMFA10A6 (8 & 10 class) EDMFA12A6 (12 class) EDMFA18A6 (16 & 18 class)	EDMFA04A6 (4 & 5 class) EDMFA06A6 (6 & 7 class) EDMFA10A6 (8 & 10 class)		
	EEH01A6 (1 class) EEH02A6 (15 & 2 class) EEH03A6 (25 & 3 class) EEH06A6 (35, 4 & 6 class) EEH10A6 (8 & 10 class)	EEH02A6 (2 class) EEH03A6 (3 class) EEH06A6 (6 class) EEH10A6 (8 class)	EEH01A6 (1 class) EEH02A6 (15 & 2 class) EEH03A6 (25 & 3 class) EEH06A6 (35, 4 & 6 class) EEH10A6 (8 & 10 class)			EH060V3A (4 & 5 class) EH100V36A (6 & 8 class) EH200V36A (10 up to 17 class)	EH060V3A (4 & 5 class) EH100V36A (6 & 8 class) EH200V36A (10 up to 17 class)	EDEH04A6 (4 class) EDEHS06B6 (6 class) EDEHS10B6 (8 & 10 class) EDEHS12B6 (12 class) EDEHS18B6 (16 & 18 class)	EDEH04A6 (4 & 5 class) EDEHS06B6 (6 & 7 class) EDEHS10B6 (8 & 10 class)		
								EDEH04A6 (4 class) EDEHB06A6 (6 class) EDEHB10A6 (8 & 10 class) EDEHB12A6 (12 class) EDEHB18A6 (16 & 18 class)	EDEH04A6 (4 & 5 class) EDEHB06A6 (6 & 7 class) EDEHB10A6 (8 & 10 class)		
	ESRH02A6 (1, 15 & 2 class) ESRH03A6 (25 & 3 class) ESRH06A6 (35, 4 & 6 class) ESRH10A6 (8 & 10 class)	ESRH02A6 (2 class) ESRH03A6 (3 class) ESRH06A6 (6 class) ESRH10A6 (8 class)	ESRH02A6 (1, 15 & 2 class) ESRH03A6 (25 & 3 class) ESRH06A6 (35, 4 & 6 class) ESRH10A6 (8 & 10 class)			EAHD04A (4 & 5 class) EAHD06A (6 & 8 class) EAHD10A (10 up to 17 class)	EAHD04A (4 & 5 class) EAHD06A (6 & 8 class) EAHD10A (10 up to 17 class)				
		ESFV06A6 (2, 3 & 6 class) ESFV10A6 (8 class)	ESFV06A6 (1 up to 6 class) ESFV10A6 (8 & 10 class)	ESFH01D5 (installation leg for vertical application)							
		CONV02A6 (2 class) CONV03A6 (3 class) CONV06A6 (6 class) CONV10A6 (8 class)	CONV02A6 (1, 15 & 2 class) CONV03A6 (25 & 3 class) CONV06A6 (35, 4 & 6 class) CONV10A6 (8 & 10 class)			EDFAI04A (4 & 5 class) EDFAI06A (6 & 8 class) EDFAI10A (10 up to 17 class)	EDFAI04A (4 & 5 class) EDFAI06A (6 & 8 class) EDFAI10A (10 up to 17 class)				

	Indoor units	FWC-BT/BF	FWF-BT/BF	FWF-DT/DF	FWC-DT/DF	FWH-AT/AF	FWI-AT/AF	FWZ-AT/AF	FWV-DAT/DAF	FWR-AT/AF
Others	Plenum box with rectangular connections									
	Plenum box with circular connections									
	Plenum box (not insulated) with circular connections (supply side)									
	Plenum box (insulated) with circular connections (supply side)									
	Plenum box (insulated) with circular connections (intake side)									
	Cover box for electric connections									
	G2 Filter									
	G4 Filter									
	Additional drain pan			EDT02D5A	EDT03D5A					
	Vertical auxiliary drain pan					included	included	EDPVB6	EDPVB6	EDPVB6
	Horizontal auxiliary drain pan							EDPHB6	EDPHB6	EDPHB6
	Drain pump	included	included	included		included	included	CDRP1A	CDRP1A	CDRP1A (only vertical installation)
	Vertical installation kit (Wall Mounted)									

	FWL-DAT/DAF	FWS-AT/AF	FWM-DAT/DAF	FWE-DT/DF	FWE-FT/FF	FWP-CT/CF	FWB-CT/CF	FWD-AT/AF	FWN-AT/AF	FWT-GT	FWT-HT
								PRD04A6 (4 class) PRD06A6 (6 class) PRD08A6 (8 & 10 class) PRD12A6 (12 class) PRD16A6 (16 & 18 class)	PRD04A6 (4 & 5 class) PRD06A6 (6 & 7 class) PRD08A6 (8 & 10 class)		
								PCIC04A6 (4 class) PCIC06A6 (6 class) PCIC08A6 (8 & 10 class) PCIC12A6 (12 class) PCIC16A6 (16 & 18 class)	PCIC04A6 (4 & 5 class) PCIC06A6 (6 & 7 class) PCIC08A6 (8 & 10 class)		
						PLT1NAA (4 & 5 class) PLT2NAA (6 & 8 class) PLT3NAA (10 up to 17 class)	PLT1NAA (4 & 5 class) PLT2NAA (6 & 8 class) PLT3NAA (10 up to 17 class)				
		EPCC02A6 (2 class) EPCC03A6 (3 class) EPCC06A6 (6 class) EPCC10A6 (8 class)	EPCC02A6 (1, 15 & 2 class) EPCC03A6 (25 & 3 class) EPCC06A6 (35, 4 & 6 class) EPCC10A6 (8 & 10 class)			PLT1CAA (4 & 5 class) PLT2CAA (6 & 8 class) PLT3CAA (10 up to 17 class)	PLT1CAA (4 & 5 class) PLT2CAA (6 & 8 class) PLT3CAA (10 up to 17 class)				
		EICC02A6 (2 class) EICC03A6 (3 class) EICC06A6 (6 class) EICC10A6 (8 class)	EICC02A6 (1, 15 & 2 class) EICC03A6 (25 & 3 class) EICC06A6 (35, 4 & 6 class) EICC10A6 (8 & 10 class)								
						FWBOX	FWBOX				
					EKAF02G5A (4 up to 6 class) EKAF03G5A (8 up to 12 class) EKAF02G5A x 2 (14 up to 16 class) EKAF02G5A + EKAF03G5A (20 up to 24 class)						
						FG4T1AA (4 & 5 class) FG4T2AA (6 & 8 class) FG4T3AA (10 up to 17 class)	FG4T1AA (4 & 5 class) FG4T2AA (6 & 8 class) FG4T3AA (10 up to 17 class)	FSDG404A (4 class) FSDG406A (6 class) FSDG408A (8 & 10 class) FSDG412A (12 class) FSDG416A (16 & 18 class)	FSDG404A (4 & 5 class) FSDG406A (6 & 7 class) FSDG408A (8 & 10 class)		
	EDPVB6	EDPVB6	EDPVB6	ESFD01D6				EDDPV10A6 (4, 6, 8, 10 class) EDDPV18A6 (12, 16 & 18 class)	EDDPV10A6		
	EDPHB6	EDPHB6	EDPHB6		included	EDPD7 (4 up to 8 class) EDPD9 (10 up to 17 class)	EDPD7 (4 up to 8 class) EDPD9 (10 up to 17 class)	EDDPH10A6 (4, 6, 8, 10 class) EDDPH18A6 (12, 16 & 18 class)	EDDPH10A6		
	CDRP1A (only vertical installation)	CDRP1A	CDRP1A			CDRP1A	CDRP1A	CDRP1A	CDRP1A		
				ESFH02D5							



Air handling units

Daikin air handling units 820

Products overview 824

- The working principle at a glance 826
- Professional 828
- Daikin Digital Control 830
- Modular R 832
- Modular P 833
- Compact L 834
- Compact T 835
- Compact L&T accessories 836
- Daikin fresh air package 838



Why choose Daikin air handling units?

- Maximum energy efficiency and indoor air quality
- Wide range of functions and options
- **High quality** components
- **Innovative** technology: Unique features and state of the art technology for short payback
- Operation **efficiency** and **energy savings**
- Outstanding **reliability** and **performance**
- Various applications are possible including air conditioning applications, industry-type process cooling, and large-scale district heat source systems
- Plug and play concept for easy installation and commissioning
- Unique Daikin fresh air package available for connection of AHU to VRV or ERQ

Certifications

- Eurovent certified performances
- Exceeding 2018 ErP – ECODESIGN requirements
- Certified according to the Hygiene Directive VDI 6022 (Professional ranges)
- Certified according to the Hygiene Directive DIN 1946 (Professional range)
- RLT certified performances

The unique quality of Daikin AHU is accomplished by:

Panels
- Inner and outer panels available in different materials (pre-painted, aluminium, stainless steel, etc.) to meet all project specifications

Gasket
- Liquid gasket technology drastically reduces unit air leakage

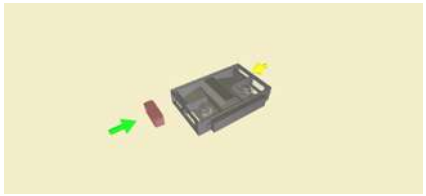
Frame
- All anodized aluminium which has the highest corrosion resistance compared to natural aluminium
- Unique Daikin thermal break (35 mm or 27 mm thermal break). Polyamide bars design to enhance thermal break unit performances
- Distinctive Section to section thermal break profile to ensure thermal break design on the whole unit
- Rounded profile for increased ease of cleaning

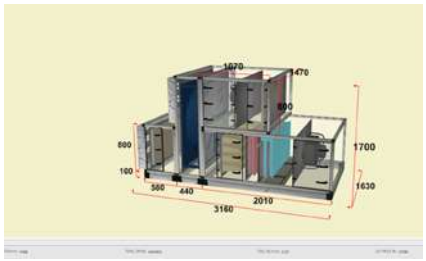
IAQ
- Flush internal surface and rounded corner flush surface to avoid the retention of dirt and to be easily cleanable
- Wide filtration possibility to reduce pollution

Plug & Play Controls
- Pre-commissioned and Factory-tested control for quicker on site commissioning
- Sole manufacturer to provide a complete AHU DX solution from a single manufacturer available for connection of AHU to VRV or ERQ (everything factory-mounted)

Marketing tools

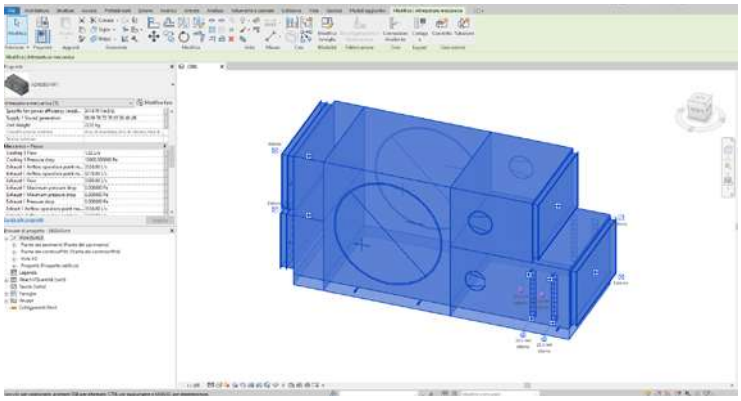
- Watch the time-lapse video of a Daikin AHU construction on **www.youtube.com/daikineurope**
- Watch the Compact L promotional video on **www.youtube.com/daikineurope**
- Download our brochure on air handling units from **my.daikin.eu**
- Get the access to the selection tool **http://tools.daikinapplied.eu** to select your air handling units in a few clicks.
- Consult the "Argue Card" document to support in promoting the Compact L and T range (available on request – refer to your Daikin AHU specialist)





BIM models

- Get the Compact L and T BIM models on **bim.daikin.eu**
- Get the BIM tool plugin for Revit for Professional and Modular R/P series





Benefits for the installer

Plug and play design
- Pre-programmed and factory-tested controls for an easier and fast commissioning
- Low voltage fast connectors between AHU sections
- Flush mounted or external electrical control panel

Daikin Fresh air package
- Plug & Play connection of Professional or Modular AHU to Daikin VRV and ERQ
- Factory-mounted package contains expansion valves, electronic interface and sensors

Benefits for the consultant

Quick selection tool
- In-house developed web software with improved user interface and preset parameters ensure that you can always find the optimum and most energy efficient product for your application
- Extremely flexible design
- Infinite variable sizes (increments of 1 cm)

BIM models
- Regardless if your AHU is standard or fully customized, BIM models are available and can be downloaded with just a few clicks

Benefits for the end user

Customized or standard
- Amazing tailor-made capability to meet the specific customer needs with the Professional range or fast availability thanks to the "make to stock" standard Compact L and T range

Efficient control logic
- Open communication protocols (BACnet and Modbus) that guarantee BMS, and iTM compatibility
- Energy efficient controls with reduced energy and operating cost
- Highest efficiency ensure savings on energy consumption costs





Smart controls



Damper and EC fan



D-AHU Modular R installation



Heat recovery wheel and filter



D-AHU Professional installation

Products overview

Centralized ventilation

D-AHU Professional
- Infinite variable sizes
- Tailored to the individual customer



750 m³/h
up to 144,000 m³/h

D-AHU Modular R
- Pre-configured sizes
- Plug and play concept
- EC Fan technology
- Heat recovery wheel (sorption and sensible technology)
- Modular design



500 m³/h
up to 25,000 m³/h

D-AHU Modular P
- Pre-configured sizes
- Plug and play concept
- EC Fan technology
- High efficiency aluminium counter flow PHE
- Modular design



500 m³/h
up to 25,000 m³/h

Eurovent certification

Daikin Applied Europe S.p.A. participates in the Eurovent Certified Performance programme for Air Handling Units. Check ongoing validity of certificate: **www.eurovent-certification.com** or **www.certiflash.com**

Result Energy TermiC° S2&F2 — Eurovent Classification according to EN1886

D1	Casing strength class	D1		D2		D3
	Max. relative deflection mm x m^{-1}	4.00		10.00		Exceeding10
L1	Casing air leakage class at -400 Pa	L1		L2		L3
	Max. leakage rate (f_{400}) l x s^{-1} x m^{-2}	0.15		0.44		1.32
L1	Casing air leakage lass at +700 Pa	L1		L2		L3
	Max. leakage rate (f_{700}) l x s^{-1} x m^{-2}	0.22		0.63		1.90
ePM_1 80% (F9)	Filter bypass leakage class	ePM_1 80% (F9)	ePM_1 70% (F8)	ePM_1 50% (F7)	$ePM_{2,5}$ 50% (M6)	ISO Coarse
	Max. filter bypass leakage rate k in % of the volume flow rate	0.50	1	2	4	6
T2	Thermal transmittance	T1	T2	T3	T4	T5
	(U) W x m^{-2} x K^{-1}	U <= 0.5	0.5 < U <= 1	1 < U <= 1.4	1.4 < U <= 2	No requirements
TB2	Thermal bridging factor	TB1	TB2	TB3	TB4	TB5
	(kb)	0.75 < K_b <= 1	0.6 < K_b <= 0.75	0.45 < K_b <= 0.6	0.3 < K_b <= 0.45	No requirements

Decentralized ventilation

Compact L
- Pre-configured sizes
- Plug and play concept
- EC Fan technology
- High efficiency aluminium counter flow PHE
- Low height unit
- For false ceiling applications

Compact T
- Pre-configured sizes
- Plug and play concept
- EC Fan technology
- Small footprint
- Compact design
- High efficiency aluminium counter flow PHE
- Top connected unit





150 m^3/h
up to 4,000 m^3/h

200 m^3/h
up to 4,200 m^3/h

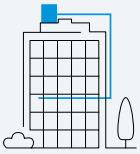
Centralized ventilation



Professional



Modular R & P



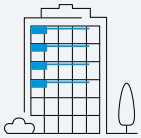
Decentralized ventilation



Compact T



Compact L



Selection software

ASTRA Web
- Quick AHU selection that will save you precious time, drastically reducing selection time through the new software interface.
- Very competitive solution available within the Wizard thanks to pre-uploaded parameters.
- High selection quality, thanks to the intelligence embedded within the software core.

Quickly select your air handling unit by following the wizard:

1. Select the series: D-AHU Professional, D-AHU Modular R, D-AHU Modular P, Compact L and Compact T
2. Insert the air flow supply and return
3. Insert the summer/winter air supply setpoint
4. Insert the summer/winter outdoor and extract temperature

You will get immediately your 3D result and it's ready to customize!

Now, you will be able to modify your unit (adding or changing components) in order to have a product that meets all your needs.

When finished a technical report, price list, fan curve chart can be generated. These final reports can be downloaded in different formats.







The working principle at a glance

Typical configurations for Daikin air handling units provide a versatile range of functions. Our system offers numerous options for customisation through an extensive range of variations and added functionality.

Supply side

- Damper section including ventilation grilles, factory-mounted actuators
- Premium efficiency filters with factory-mounted differencial pressure manometer
- Heat recovery system (cross flow and counter flow plate heat exchanger or rotary heat exchanger)
- Mixing box with damper and factory-mounted actuators
- Heating/cooling coil section with stainless steel condensate tray and drip protection
- Supply air fan, EC technology (with hinged door, opening drive monitoring, mounted and cabled lighting and ON/OFF switch)





Fans
- EC plug fan
- Forward curved fan
- Backward curved fan
- Backward airfoil blades fan
- Plug fan

Exchangers
- Water coils
- Steam coils
- Direct expansion coil
- Superheated water coils
- Electric coils

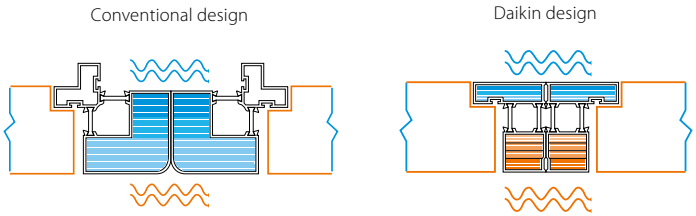
Humidifiers
- Evaporative humidifier without pump (loss water)
- Evaporative humidifier with re-circulating pump
- Steam humidifier with direct steam production
- Steam humidifier with local distributor
- Atomized water spray humidifier

Plug and Play control solution

- Air flow control
- Air temperature control
- Chilled water and DX cooling system control
- Free cooling
- CO_2 automatic control
- Air temperature control (supply, return, ambient)
- Variable Air Volume (VAV) and Constant Air Volume (CAV) systems

Unique section to section thermal break profile

- Thermal bridge free for the entire AHU
- Smooth interior surface with improved IAQ (Indoor Air Quality)







Return side

- Premium efficiency filters with factory-mounted differencial pressure manometer
- Exhaust air fan, EC technology (with hinged door, opening drive monitoring, mounted and cabled lighting and ON/OFF switch)
- Mixing box with damper and factory-mounted actuators
- Heat recovery system (cross flow and counter flow plate heat exchanger or rotary heat exchanger)
- Damper section including ventilation grilles, factory-mounted actuators

Heat recovery systems

- Heat wheel, sensible or sorption
- Cross flow and Counter flow plate heat exchangers
- Run-around coils

Other section

- Attenuator section
- Mixing box section with actuators or manual controlled dampers
- Empty section

Filters

- Synthetic pleated filter
- Flat filter aluminium mesh
- Rigid bag filter
- Soft bag filter
- High efficiency filter
- Carbon absorption filter
- Carbon deodorizing filter

Accessories

- Control features
- Frost protection
- Manometers
- Drive guard
- Roof
- …

Flexible solution for custom applications



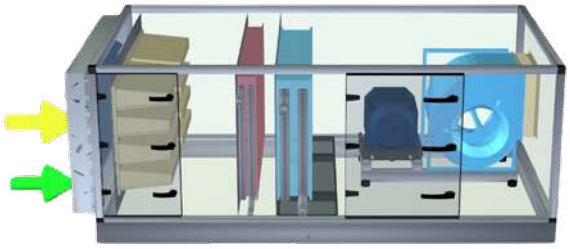
Highlights

- Air flow from 750 m^3/h to 144,000 m^3/h, for all customer needs
- Indoor and outdoor versions
- Custom designed to facilitate the transport and the assembly on site
- Smooth interior surface with improved IAQ (Indoor Air Quality)
- DX cooling system integration (VRV IV and ERQ coupling capability)
- Daikin Digital Control compatible
- Different heat recovery systems: heat wheel (sensible, enthalpy or sorption), cross flow and counter flow plate heat exchangers, run-around coils
- Wide range of fans selectable: EC, AC plug, belt driven (forward curved, backward curved and backward airfoil blades)
- Heating/cooling coil section with stainless steel condensate tray and drip protection
- Different humidifiers available depending on customer needs
- Premium efficiency filters with factory mounted differential pressure manometer
- Profile in anodized aluminum with or without thermal break
- Base frame in Galvanized steel, Aluminium, Stainless Steel 430 or 316
- Panel insulation in polyurethane foam or mineral wool
- Different material options selectable for internal, external panel skin: Pre-coated, Aluzinc, Aluminum, Stainless Steel 304 or 316
- Wide range of accessories
- Possibility to import BIM objects in Autodesk® Revit, thanks to a dedicated free plug-in available for **download**

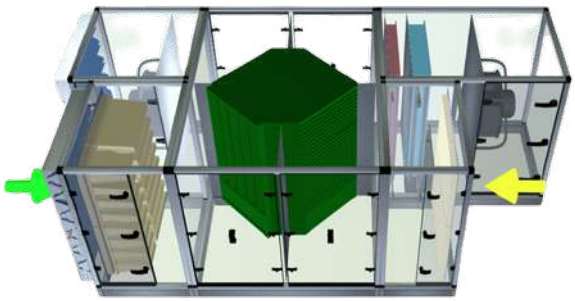


Configurations

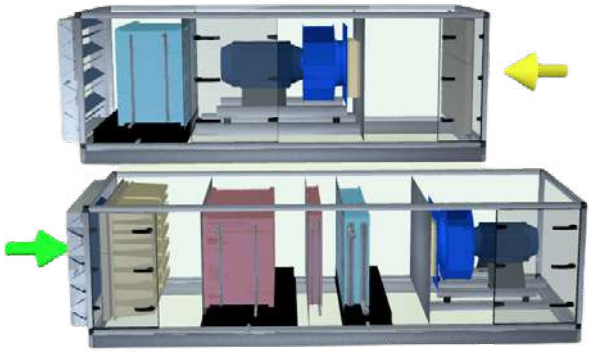
Beside dimensioning the cross section by 1 cm, Professional AHUs can be designed for any configuration to comply with any space limitation and project specification. All configurations allow to fit any HRS, fan technology or component.



Single Deck



Side by Side



2x Horizontal



Double Deck

Hygienic Standards

Professional air handling units are engineered to meet the highest standards of indoor air quality and hygiene, ensuring a clean and safe environment for the most demanding applications.
Daikin factories are tested and certied as manufacturer by TÜV NORD Systems GmbH & Co. KG according to German standards VDI 6022-Part 1 and DIN 1946-4, which are essential for facilities such as hospitals, laboratories, and food processing plants.
By strictly adhering to these rigorous certifications, Professional AHUs ensure exceptional performance, durability, and quality. They are the optimal choice for environments where maintaining high standards of hygiene and air quality are crucial.



BREAM & LEED certification

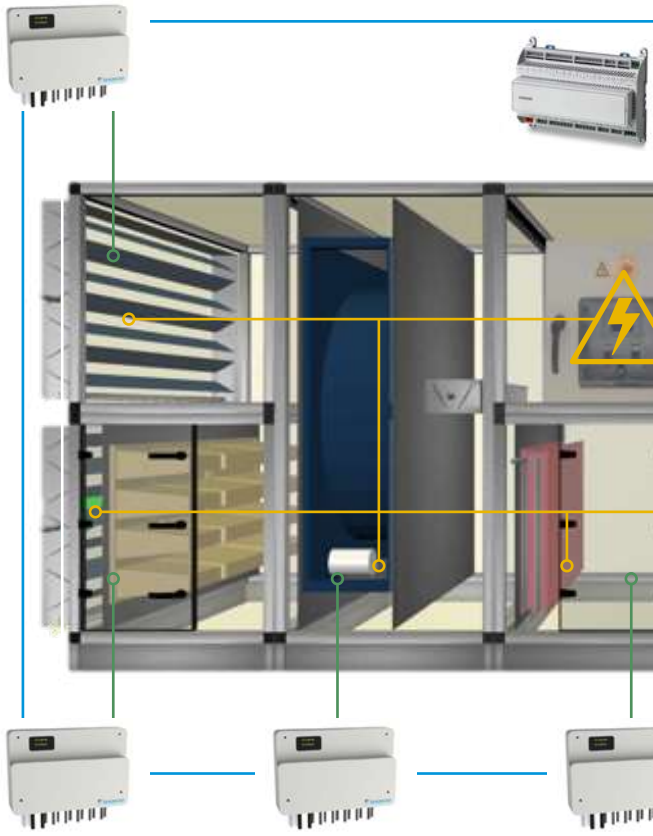
Daikin Professional AHU contributes in scoring points in several categories for the LEED, WELL and Breeam certification programmes.





Daikin Digital Control

Designed to offer maximum flexibility and scalability, the Daikin Digital control system is the ideal solution for advanced management of air handling units. Digital control can monitor and control every aspect of an AHU operation, optimizing energy consumption and ensuring reliable performance.







Microtech 4



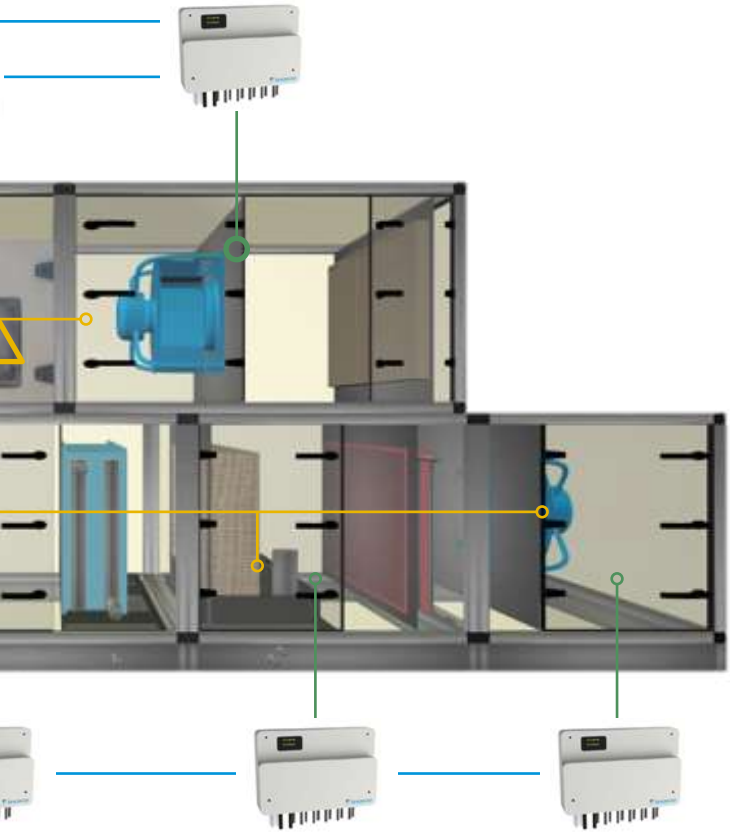
NTC



CO_2 Probe



Humidity Probe



This innovative control design relies on sectional Daikin patented I/O modules: each AHU section is equipped with one or more dedicated module that collect analog or digital signals. The modules are interconnected in a continuous loop up to the central controller (Microtech 4), ensuring smooth and reliable communication among all system components by means of only one cable running through the unit, allowing for the easiest on-site setup and reducing downtime and management costs.

Technical Specifications:

- Number of I/O: Supports over 300 inputs and outputs, both analog or digital.
- Communication Protocols: Compatible with Building Management Systems (BMS) via Modbus or BACnet, ensuring seamless integration with existing infrastructures.
- Advanced Setpoint Control: The Digital® controller precisely ensure setpoints. Setpoints are pre-configured during factory testing based on the selections made.
- Monitoring and Alarms: Constantly monitors AHU operation, identifying malfunctions and activating alarms for prompt intervention.
- Energy Consumption Optimization: With its monitoring and control capabilities, Digital® controls helps to reduce energy consumption, improving overall system efficiency.
- Installation and Commissioning: The pre-configuration of setpoints during factory testing streamlines installation and commissioning processes. Only one cable runs through the air handling unit, simplifying on-site setup. Male-female connectors are the only plugs required for joining on-site, further enhancing ease of installation.
- Flexibility and Scalability: The sectional design and the large number of I/O allow the system to be adapted to any configurations, providing a tailored space-saving solution for every need.



Daikin I/O module



HMI



VFD



Damper Actuator



Water Coil Valve



Smoke Detector

Side connected rotary heat recovery air handling unit



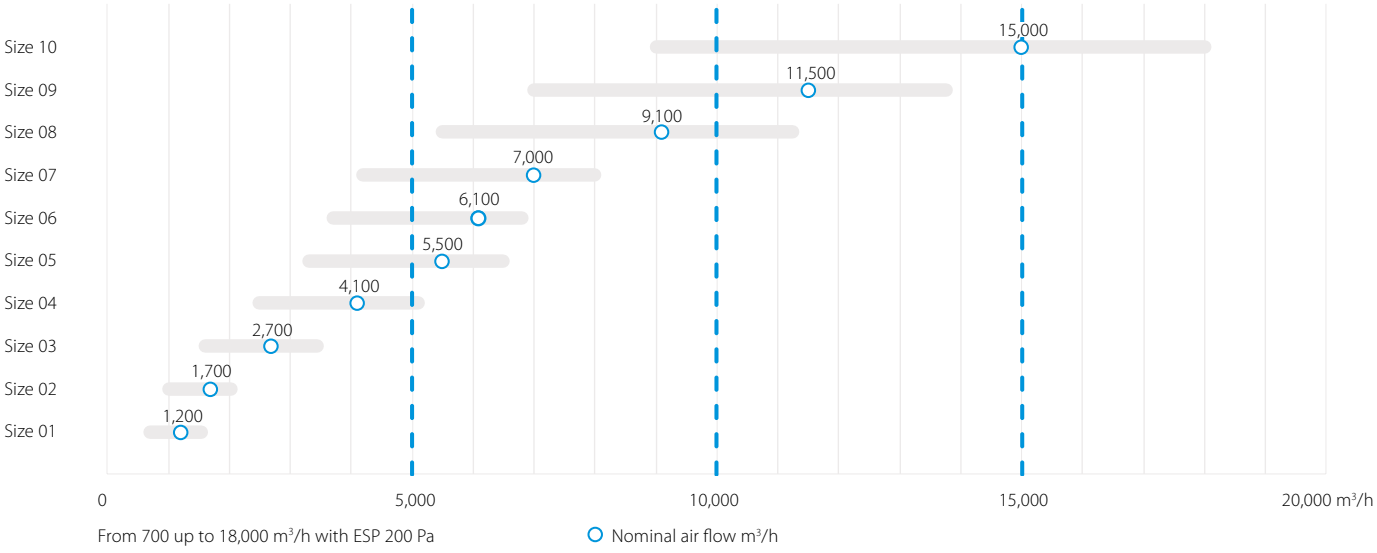
Modular R

Highlights

- 10 predefined sizes
- Airflow from 700 m³/h to 18,000 m³/h (ErP 2018)
- Rotary heat recovery (Sensible or Sorption)
- Compact design (only 720 mm depth)
- Indoor and outdoor versions
- Thermal bridge free for the entire AHU
- Smooth interior surface with improved IAQ (Indoor Air Quality)
- Indoor air quality compliant with VDI 6022 hygiene guideline
- Chilled water system control
- DX cooling system integration (VRV IV and ERQ coupling capability)
- Advanced control features
- Air flow or pressure control (Variable Air Volume - Constant Air Volume)
- Possibility to import BIM objects in Autodesk® Revit

Modular R

Air flow range



Additional module for Modular R&P

Sound attenuator on outdoor and/or indoor connections

Additional filtration stage to achieve high IAQ level

Pre heating electric coil for extremely cold climate region

Electric heater for post heating treatment

Side connected plate heat recovery air handling unit



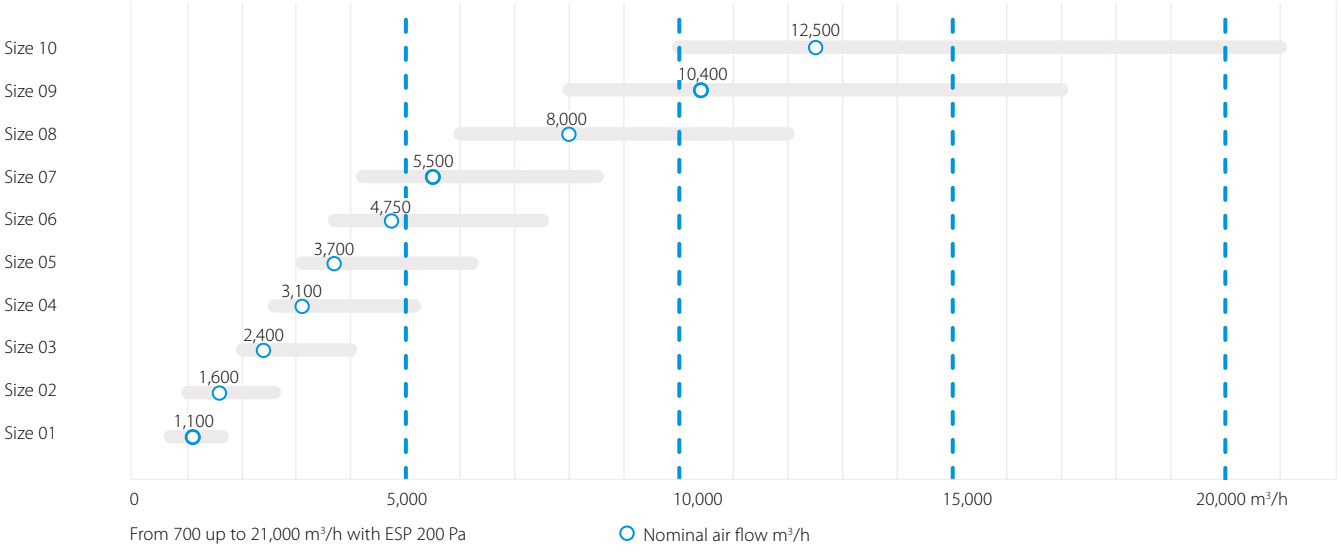
Modular P

Highlights

- 10 predefined sizes
- Airflow from 700 m³/h to 21,000 m³/h (ErP 2018)
- Counterflow plate heat recovery
- Compact design (only 720 mm depth)
- Indoor and outdoor versions
- Thermal bridge free for the entire AHU
- Smooth interior surface with improved IAQ (Indoor Air Quality)
- Indoor air quality compliant with VDI 6022 hygiene guideline
- Chilled water system control
- DX cooling system integration (VRV IV and ERQ coupling capability)
- Advanced control features
- Air flow or pressure control (Variable Air Volume - Constant Air Volume)
- Possibility to import BIM objects in Autodesk® Revit

Modular P

Air flow range



From 700 up to 21,000 m³/h with ESP 200 Pa

Nominal air flow m³/h

Additional module for Modular R&P

HUMIDIFY

Humidifier for humidity level control

Mixing box to allow recirculation mode

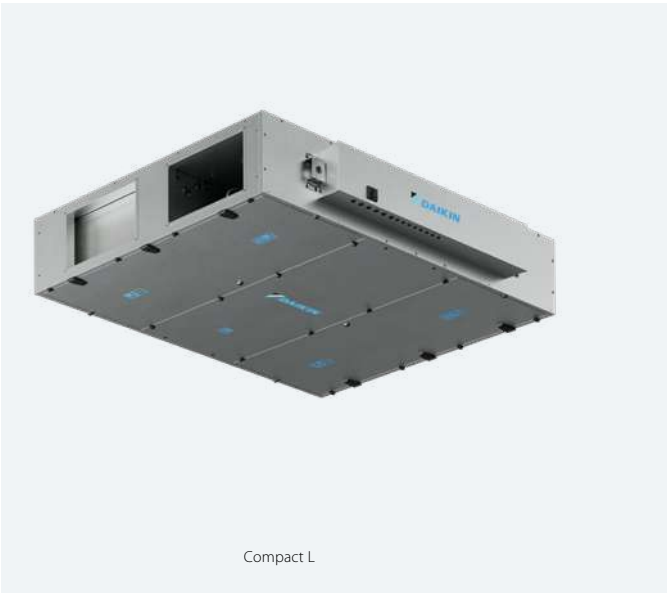
Water or DX coil for air a fully treatment

Water heating coil for post heating or heating mode only

False ceiling heat recovery unit

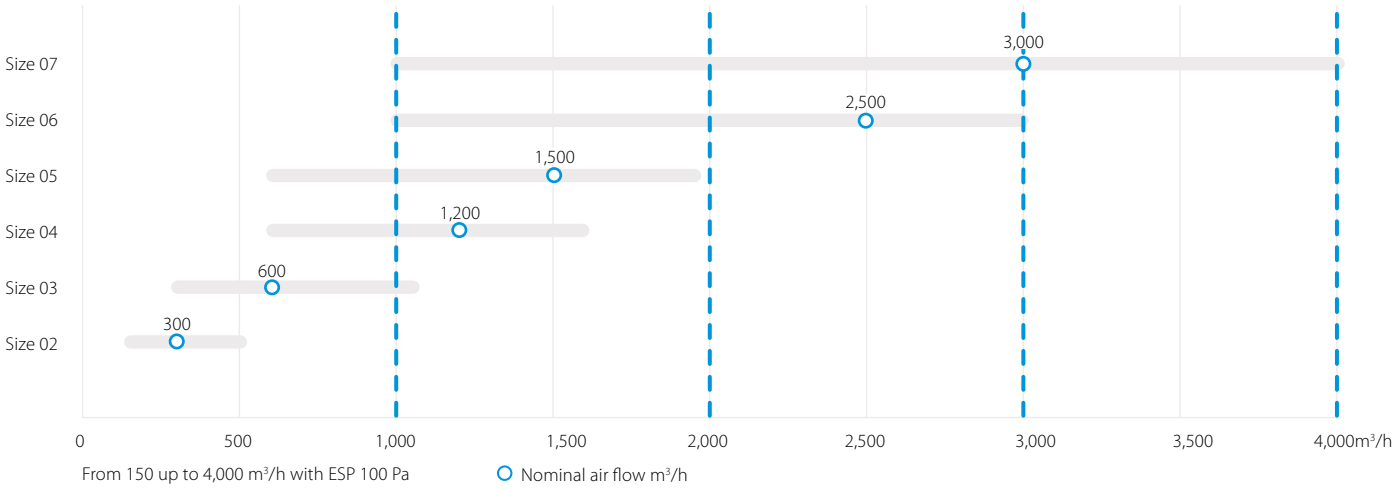
Highlights

- 6 Predefined sizes
- Plug & Play control solution
- Compact unit from 280 mm height (for air flow up to 550 m³/h)
- Wide air flow coverage from 150 to 4,000 m³/h
- Right and left configuration
- Pro (open control platform) and Smart (Daikin control platform) version
- Excellent indoor air quality (IAQ). Double filtration stage on supply and return side
- DX and water coil available as option
- BIM file available at **www.daikin.eu/BIM**



Compact L

Air flow range



Compact L			ALB02*C* (1)	ALB03*C*	ALB04*C*	ALB05*C*	ALB06*C*	ALB07*C*
Airflow	Nominal	m³/h	300	600	1,200	1,500	2,500	3,000
Electrical supply	Phase	ph	1					
	Frequency	Hz	50/60					
	Voltage	V	220/240					
	Ampere	A	16					
Main unit dimensions	Width	mm	920	1,100	1,600		2,000	
	Height	mm	280	350	415		500	
	Length	mm	1,660	1,800	2,000			
Weight unit	Net weight	kg	115	170	255	265	310	320
	Gross weight	kg	125	180	270	280	325	335
Duct dimensions		mm	250	400	500	500	700	700
		mm	150	200	300	300	400	400

(1) ALB02*C* refers to all configuration available for Compact L size 02 (Smart or Pro version and right or left handing)

Please refer to Databook or Astra selection software for more details.

Top connected heat recovery unit

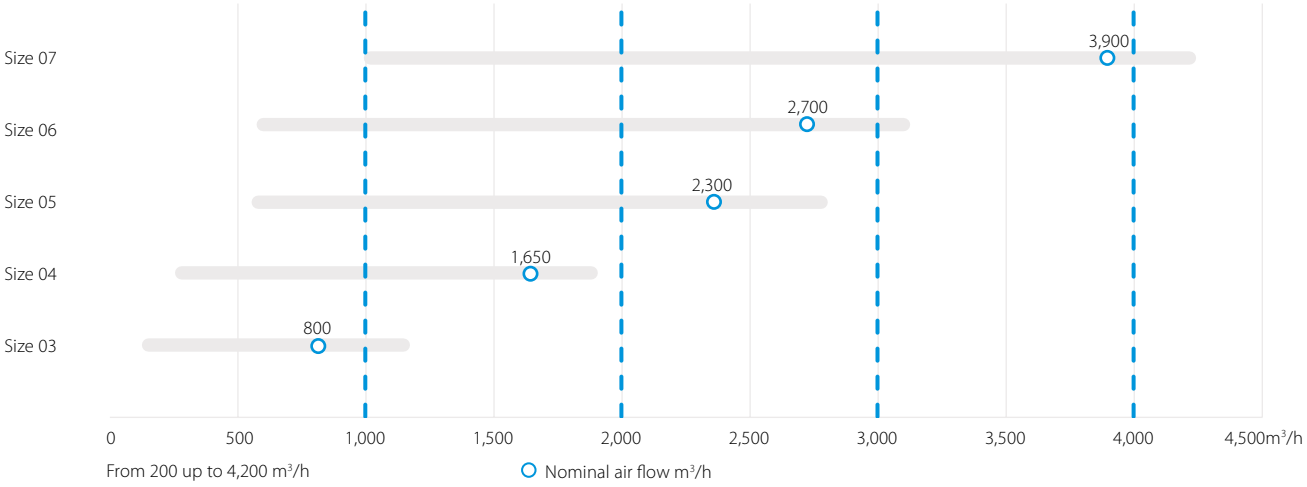
Highlights

- 5 Predefined sizes
- Plug & Play control solution
- Compact unit from 550 mm width (for unit up to 1,100 m³/h)
- Wide air flow coverage from 200 to 4,200 m³/h
- Right and left configuration
- Pro (open control platform) and Smart (Daikin control platform) version
- Excellent indoor air quality (IAQ). Up to three filtration stages: more than 90% PM1 in outdoor air are deleted achieving the best IAQ
- DX and water coil available as option
- Recirculation mixing damper (option)
- BIM file available at **www.daikin.eu/BIM**



Compact T

Air flow range



Compact T			ATB03*B* (1)	ATB04*B*	ATB05*B*	ATB06*B*	ATB07*B*
Airflow	Nominal	m³/h	800	1,650	2,300	2,700	3,900
Electrical supply	Phase	ph	1				
	Frequency	Hz	50				
	Voltage	V	230				
	Max internal fuse	A	16				
Main unit dimensions	Width	mm	550		790		890
	Height	mm	1,600		1,900	1,850	2,050
	Length (2)	mm	1,580	1,650	2,170	2,620	2,950
Duct dimensions		mm	250	315	355	400	500
Weight unit	Net weight	kg	185	230	370	475	580
	Gross weight	kg	195	240	390	505	610

(1) ATB03*B* refers to all configuration available for Compact T size 03 (Smart or Pro version and right or left handing)
(2) Size 05 is provided in two sections while Size 06 and 07 are provided in three sections.

Please refer to Databook or Astra selection software for more details.

Compact L&T - Accessory list

Accessories	Compact L Pro						Compact T Pro				
	ALB02LCM ALB02RCM	**ALB03LCM ALB03RCM**	**ALB04LCM ALB04RCM**	**ALB05LCM ALB05RCM**	**ALB06LCM ALB06RCM**	**ALB07LCM ALB07RCM**	**ATB03RBM ATB03LBM**	**ATB04RBM ATB04LBM**	**ATB05RBM ATB05LBM**	**ATB06RBM ATB06LBM**	**ATB07RBM ATB07LBM**
Iso Coarse 55% (G4) Filter	ALF02G4A	ALF03G4A	ALF05G4A		ALF07G4A		ATF03G4A	ATF04G4A	ATF05G4A	ATF06G4A	ATF07G4A
ePM10 75% (M5) Filter	ALF02M5A	ALF03M5A	ALF05M5A		ALF07M5A		ATF03M5A	ATF04M5A	ATF05M5A	ATF06M5A	ATF07M5A
ePM1 50% (F7) Filter	ALF02F7A	ALF03F7A	ALF05F7A		ALF07F7A		ATF03F7A	ATF04F7A	ATF05F7A	ATF06F7A	ATF07F7A
ePM1 80% (F9) Filter	ALF02F9A	ALF03F9A	ALF05F9A		ALF07F9A		ATF03F9A	ATF04F9A	ATF05F9A	ATF06F9A	ATF07F9A
Sound attenuator	ALS0290A	ALS0390A	ALS0590A		ALS0790A		ATS0360A	ATS0460A	ATS0560A	ATS0660A	ATS0760A
Rails for door	ALA02RLA	ALA03RLA	ALA05RLA		ALA07RLA						
Duct transition	ALA02RCA	ALA03RCA	ALA05RCA		ALA07RCA						
Flexible joints	ALA02FXB	ALA03FXB	ALA05FXB		ALA07FXB						
Mixing damper									ATA05MDA	ATA06MDA	ATA07MDA
External damper	ALA02EDA	ALA03EDA	ALA05EDA		ALA07EDA		ATA03EDA	ATA04EDA	ATA05EDA	ATA06EDA	ATA07EDA
Electric pre heater [1]	ALD02HEFA	ALD03HEFA	ALD05HEFA		ALD07HEFA		ATD03HEFAU	ATD04HEFAU	ATD05HEFAU	ATD06HEFAU	ATD07HEFAU
Electric post heater [1]	ALD02HESA	ALD03HESA	ALD05HESA		ALD07HESA		ATD03HESAU	ATD04HESAU	ATD05HESAU	ATD06HESAU	ATD07HESAU
DX coil [2]			ALD05CDSA		ALD07CDSA		ATD03UDSAR	ATD04UDSAR	ATD05UDSAR	ATD06UDSAR	ATD07UDSAR
							ATD03UDSAL	ATD04UDSAL	ATD05UDSAL	ATD06UDSAL	ATD07UDSAL
								ATD04UDSBL	ATD05UDSBL	ATD06UDSBL	ATD07UDSBL
								ATD04UDSBR	ATD05UDSBR	ATD06UDSBR	ATD07UDSBR
WATER coil [2]	ALD02CWSA	ALD03CWSA	ALD05CWSA		ALD07CWSA		ATD03UWSAR	ATD04UWSAR	ATD05UWSAR	ATD06UWSAR	ATD07UWSAR
							ATD03UWSAL	ATD04UWSAL	ATD05UWSAL	ATD06UWSAL	ATD07UWSAL
Water pre heating coil	ALD02HWUA	ALD03HWUA	ALD05HWUA		ALD07HWUA		ATD03HWFAU	ATD04HWFAU	ATD05HWFAU	ATD06HWFAU	ATD07HWFAU
Water post heating coil [2]	ALD02HWUA	ALD03HWUA	ALD05HWUA		ALD07HWUA		ATD03HWSAR	ATD04HWSAR	ATD05HWSAR	ATD06HWSAR	ATD07HWSAR
							ATD03HWSAL	ATD04HWSAL	ATD05HWSAL	ATD06HWSAL	ATD07HWSAL
Droplet Eliminator	ALA02DEA	ALA03DEA	ALA05DEA		ALA07DEA						
Water valve 2 way cooling/heating	ALV02CW2A	ALV03CW2A	ALV05CW2A		ALV07CW2A		ATV03CW2A	ATV04CW2A	ATV05CW2A	ATV06CW2A	ATV07CW2A
Water valve 3 way cooling/heating	ALV02CW3A	ALV03CW3A	ALV05CW3A		ALV07CW3A		ATV03CW3A	ATV04CW3A	ATV05CW3A	ATV06CW3A	ATV07CW3A
Valve modulating actuator	ATE00AMVA										
Damper modulating actuator	ATE00AMDA										
Digital PCB							ATE00DPUA				
Spring return modulating actuator	AUE00ASUA										
Frost switch	ALE00FSUA						ATE00FSUA				
CO_2 sensor	ALP00COA										
Humidity sensor	ALP00HUA										
Temperature probe	ALP00TEA										
Pressure transducer	AUE00PTUA										
Room Interface	ALC00822A (POL 822)										
Commissioning module	ALC00895A (POL 895)										
Modbus RTU module	ALC00902A (POL 902)										
Bacnet IP module	ALC00908A (POL 908)										
Expansion module	ALC00955A										
LonWorks Interface											
Intelligent Touch Manager											
Intelligent Tablet Controller											
Intelligent Touch Controller											
Central remote control											
Unified ON/OFF control											

Notes

(1) For Compact T pro only, both electric heater can be used as pre and post heater

(2) For Compact T pro only, sixth digit on main unit material name has to be aligned with last digit of the coil material name (with the exception of the electric heater and water pre heating coil)
ATB0**R**BM --> ATB0*UDSA**R**
ATB0**R**BM --> ATB0*UDSB**R**
ATB0**R**BM --> ATB0*UWSA**R**
ATB0**R**BM --> ATB0*HWSA**R**
ATB0**L**BM --> ATB0*UDSA**L**
ATB0**L**BM --> ATB0*UDSB**L**
ATB0**L**BM --> ATB0*UWSA**L**
ATB0**L**BM --> ATB0*HWSA**L**

(3) Please refer to the selection software for more details on accessories and their incompatibilities.

Compact L Smart						Compact T Smart				
ALB02LCS ALB02RCS	**ALB03LCS ALB03RCS**	**ALB04LCS ALB04RCS**	**ALB05LCS ALB05RCS**	**ALB06LCS ALB06RCS**	**ALB07LCS ALB07RCS**	**ATB03RBS ATB03LBS**	**ATB04RBS ATB04LBS**	**ATB05RBS ATB05LBS**	**ATB06RBS ATB06LBS**	**ATB07RBS ATB07LBS**
ALF02G4A	ALF03G4A	ALF05G4A		ALF07G4A		ATF03G4A	ATF04G4A	ATF05G4A	ATF06G4A	ATF07G4A
ALF02M5A	ALF03M5A	ALF05M5A		ALF07M5A		ATF03M5A	ATF04M5A	ATF05M5A	ATF06M5A	ATF07M5A
ALF02F7A	ALF03F7A	ALF05F7A		ALF07F7A		ATF03F7A	ATF04F7A	ATF05F7A	ATF06F7A	ATF07F7A
ALF02F9A	ALF03F9A	ALF05F9A		ALF07F9A		ATF03F9A	ATF04F9A	ATF05F9A	ATF06F9A	ATF07F9A
ALS0290A	ALS0390A	ALS0590A		ALS0790A		ATS0360A	ATS0460A	ATS0560A	ATS0660A	ATS0760A
ALA02RLA	ALA03RLA	ALA05RLA		ALA07RLA						
ALA02RCA	ALA03RCA	ALA05RCA		ALA07RCA						
ALA02FXB	ALA03FXB	ALA05FXB		ALA07FXB						
ALD02HEFB	ALD03HEFB	ALD05HEFB		ALD07HEFB		ATD03HEFBU	ATD04HEFBU	ATD05HEFBU	ATD06HEFBU	ATD07HEFBU

Daikin fresh air package

Plug and play connection of AHU to Daikin VRV and ERA

The Daikin fresh air package provides a complete solution, including all unit controls (expansion valve, control box and AHU controller) and sensors factory mounted and configured.

What is included?

- A **plug & play package** with a Daikin DX outdoor unit and Daikin Air Handling Unit
- Factory fitted and welded **DX coil, expansion valve kit** and **control box**
- **One point of contact**



VRV or ERA
outdoor condensing unit

Daikin Air Handling Unit
Professional
Modular R&P
Compact L&T

Factory fitted and welded DX coil, expansion valve kit and control box

Fully compatible with R-410A and R32 systems



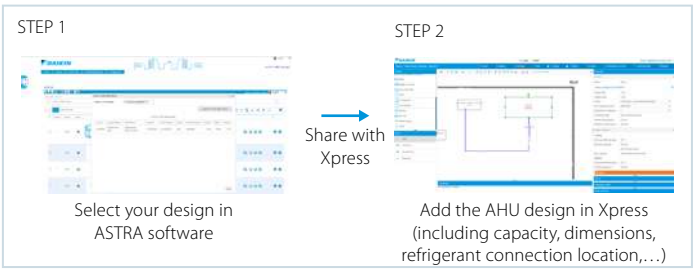
Expansion valve (EKEXVA)

Electronic interface (EKEACB)

Simplified business

- Unique **total solution approach** of heating, cooling and ventilation
- Off-the-shelf **compatibility** between Daikin outdoor unit and Daikin AHU
- Plug&play control for **outstanding reliability**
- **Peace-of-mind** thanks to a single point of contact

Simple selection in 2 steps



Select your design in ASTRA software

Add the AHU design in Xpress (including capacity, dimensions, refrigerant connection location,…)

For more information on the connection of VRV or ERA DX units with air handling units refer to the chapter Commercial Ventilation & Air purification of the General Catalogue.


DAIKIN
DAIKIN



Daikin is a strong challenger in the refrigeration market. We can create the ideal solution for each customer's specific situation.

As our products contain the latest technologies we ensure the highest energy efficiency. Our units are rigorously tested in order to provide you reliable operation.

With the acquisition of the Zanotti, Tewis and AHT groups, we expand our refrigeration business providing a larger and more diverse product line for all aspects in the cold chain.



Cold Chain

Why choose Daikin? 844

Daikin Refrigeration Group 846

Stationary Refrigeration 850

Monoblocks 850

Bi-Blocks/Splits 860

- Bi-Blocks 861
- Bi-block system for wine application 864

Condensing units 865

- JEHCCU / JEHSCU 866
- CI-B 869
- CO_2 ZEAS 873
- ZEAS 876
- NV66 879
- NV66+ 880

Multi-compressor packs and racks 882

Integrated Solutions 889

Drying and ageing units 908

Accessories 912

- ZEAS and Conveni-Pack 912

Transport Refrigeration 915

Product Portfolio 918

Van – Direct-Drive 921

- Invisible Direct-Drive 922
- Zero Direct-Drive 924

Van – Electric 927

- Invisible Electric 928
- Zero Electric 930

Light Truck 935

- SFZ 936

Truck 939

- Uno 940
- Uno Undermount 944

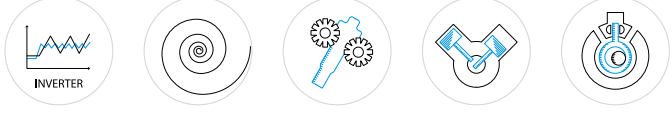
Trailer 945

- Exigo 946

Services 950

Any refrigeration system that contains fluorinated greenhouse gases is in scope of the F-gas regulations. For fully/partially pre-charged equipment: contains fluorinated greenhouse gases. Actual refrigerant charge depends on the final unit construction, details can be found on the unit labels.
For non pre-charged equipment (including, but not limited to racks): its functioning relies on fluorinated greenhouse gases.
The F-gas regulations do not apply to systems that contain only natural refrigerants such as propane (R-290) and carbon dioxide (R-744).

Refrigerant	GWP AR4	GWP AR5
R-134A	1,430	1,300
R-407C	1,774	1,620
R-407F	1,825	1,670
R-407H	1,490	1,380
R-410A	2,088	1,920
R-448A	1,387	1,270
R-449A	1,397	1,280
R-452A	2,141	1,945
R-290	3	3
R-744	1	1



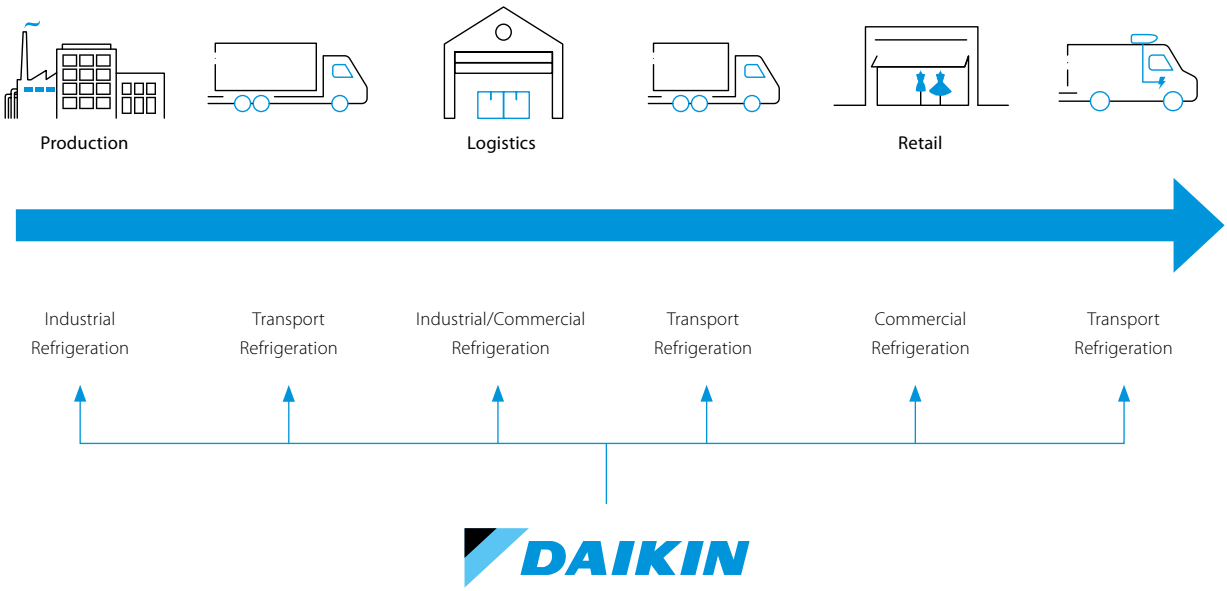
Inverter technology | Scroll compressor | Screw compressor | Reciprocating compressor | Swing compressor

For latest data, please consult **my.daikin.eu**

Cold Chain Expertise
From production to delivery

Reshaping the future of cold chain supply
Combining refrigeration expertise with innovative technology, Daikin's comprehensive product portfolio delivers integrated temperature control solutions that improve quality and safety through every link in the distribution process from point of origin to the final consumer. Our range of products and services provide the flexibility to meet diverse customer needs across a range of applications, during production, storage, retail and transit. Energy-efficient technologies with low-GWP refrigerants provide reliable and cost-effective operation, safeguarding perishable supplies, whatever the climate, while protecting the environment. We will leverage our strengths **to cover the entire cold chain.**

Covering the entire cold chain
Industrial-Commercial-Transport Refrigeration













Vision 2050

Daikin Environmental Policy

Adopted in 2015, the Paris Agreement contains a target for the latter half of this century of reducing greenhouse gas emissions to net zero and limiting global warming by less than 2°C compared to pre-industrial levels. In the spirit of the Paris Agreement, Daikin has formulated Environmental Vision 2050, with a target of reducing greenhouse gas emissions to net zero by 2050. We have established a reduction target for 2030 and incorporated this into our efforts under the Fusion 25 Strategic Management Plan.

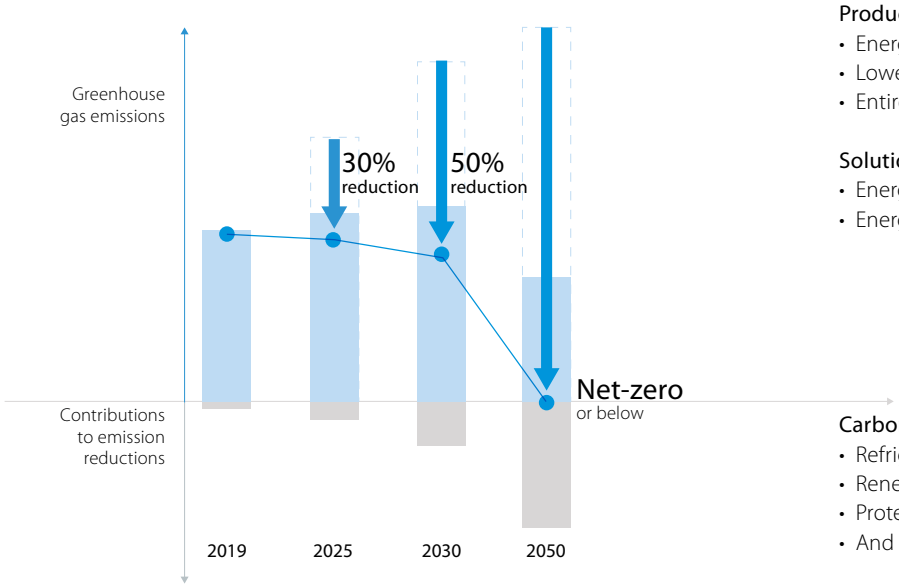
Our Vision 2050

We will effectively eliminate the greenhouse gas emissions generated throughout the entire lifecycle of our products by 2050. Furthermore, we are committed to creating solutions that link society and customers as we work with stakeholders to reduce greenhouse gas emissions to net-zero. Using IoT and open innovation, we will meet the world's needs for air solutions by providing safe and healthy air environments while at the same time contributing to solving global environmental problems.

Refrigeration Medium-Term Outlook

In our Cold Chain business, we are moving towards low-GWP and HFC-free natural refrigerants, while ensuring the correct safety standards are established in our markets. We maintain continuous focus on reducing the energy consumption of all our products. In the Transport Refrigeration industry, we will strive to lead the shift towards electrification and phasing-down of the reliance on combustion engine technologies.

Net-zero product lifecycle



Products
- Energy efficient products
- Lower global warming refrigerants
- Entire product lifecycle

Solutions
- Energy management systems
- Energy services

Carbon Offset
- Refrigerant recovery and recycle
- Renewable energy use
- Protecting forests
- And more...





Why choose Daikin?

We know refrigeration inside out

- We have over 100 years of experience in the Refrigeration business.
- We can meet all refrigeration needs from farm to fork, thanks to our wide range of refrigeration products.
- Innovative and reliable own technology and expertise on refrigerants, controls and compressors!
- Your advisor for solutions to meet your needs in line with legislation (F-gas regulation, ecodesign,...) and with focus on reliability, safety, Total Equivalent Warming Impact and running cost.

Controlled temperatures throughout the whole supply chain



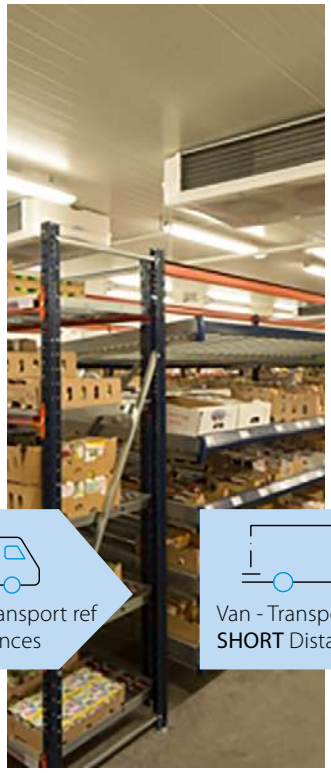
Post harvest processing

Truck - Transport ref
Long Distances



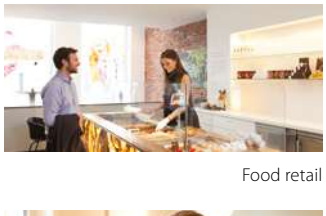
Food processing

Light truck - Transport ref
MEDIUM Distances



Warehousing

Van - Transport ref
SHORT Distances



Food retail



Restaurants/pubs



Home delivery solutions



Pharma solutions

We can meet all refrigeration needs from farm to fork

Our extended product line-up is able to provide solutions for:



Food retail



Event spaces



Cold storage



Catering



Chilled transport



Hotels



Ice skating rinks



Cleanrooms/hospitals



Brewery



Bar



Fishery



Seasoning (cheese/meat)



Butchers



Restaurants



Industry

We can fulfill any refrigeration need

...

Daikin Refrigeration – United Beyond Cold

Daikin Europe N.V. is a major European producer of air conditioners, heating systems and refrigeration equipment, with approximately 5,500 employees throughout Europe and major manufacturing facilities based in Belgium, the Czech Republic, Germany, Italy, Turkey and the UK. Globally, Daikin is renowned for its pioneering approach to product development and the unrivalled quality and versatility of its integrated solutions.

Hubbard Products Ltd., is one of the UK's leading designers, manufacturers and suppliers of commercial cooling equipment and has earned an enviable Global reputation for innovation and design-led excellence.



AHT develops, manufactures and sells refrigerating and freezing showcases specifically suited for food retailers. Leading the "plug-in" type showcases segment, AHT leads the market by the active launch of new products corresponding to evolving store layouts. Furthermore, utilizing its technological capabilities and business resources, AHT serves large accounts which include major food retail chains worldwide.

Tewis is a leading company in the design and engineering of refrigeration systems. Along with their expertise in customising controls (including monitoring), Tewis offers total comprehensive solutions for Refrigeration and Climate applications. Over the last few years, Tewis has focused on developing a range of CO_2 based refrigeration systems and has established a long-lasting relationship with key Spanish and Portuguese food retailers. Its mission and philosophy to date has been to achieve high reliability and realise remarkable energy savings for their customer base.

Zanotti is a refrigeration specialist founded in 1962. With over 50 years of experience in food storing services covering the needs of commercial and industrial refrigeration, but also the needs of the transportation of fresh and frozen products. Zanotti changed the refrigeration world from the early days with the introduction of the Uniblock, an all in one plug and play refrigeration unit for cold rooms. Today they employ more than 600 people, with three production facilities and an annual turnover of approx 130 million Euro.

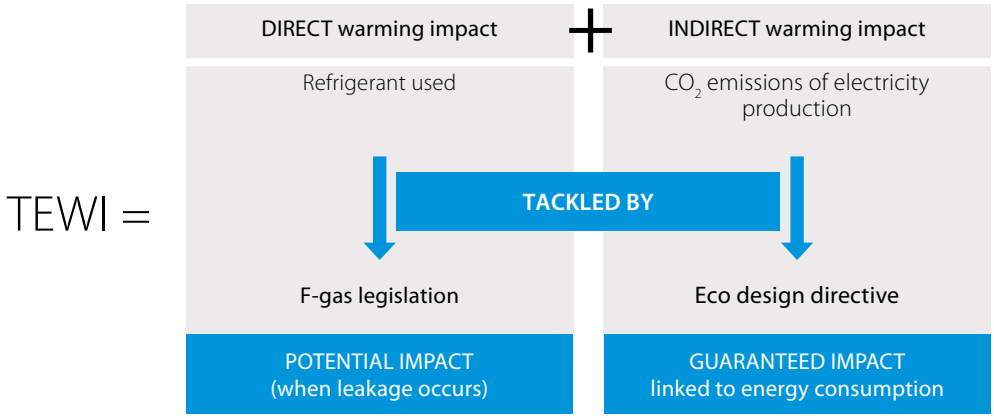


Meeting customer needs!

Depending on type of application, location and customers interest/values, the optimal refrigeration solution for the customer can potentially be different! **Thanks to our wide product portfolio, Daikin can offer what a customer really needs!**

The DNA of our Advice is:

- ☑ Safety and Reliability
- ☑ Reducing the Total Equivalent Warming Impact (TEWI)



Reduction of CO_2 emissions is one of the main priorities for the future. A refrigeration plant's global warming effect is the combination of the possible refrigerant losses (Direct warming impact) and the CO_2 emissions caused by electricity production (Indirect warming impact). Country per country situation is different, however on average in Europe CO_2 release at energy production is quite high (average 0.45kg/kwh of Electrical Energy)! Due to this, there is a significant greenhouse effect over the lifetime of the refrigeration plant and efficiency is thus one of the crucial focus points in reducing TEWI!
When various refrigeration solutions are being compared it is thus important to take into account both aspects as in some cases optimizing the direct warming impact (eg: changing refrigerant) will have an opposite effect on the indirect warming impact!

☑ Reducing your running cost

Through focus on reliability & quality, through extensive testing on each product, and energy efficiency our aim is to reduce your operational cost to the absolute minimum!





E. Leclerc, hypermarket
ZEAS



Beer cooling facility,
chilled with ZEAS



Edeka, supermarket
Conveni-pack (2) and ZEAS (1)



Coombe Fisheries
High-performance Zanotti LT refrigeration equipment



Ziggo dome, event hall
ZEAS for cooling (6) and freezing (2)







Service station
ZEAS



Monoblocks

LMS/LMC

The monoblock of the future

Inverter technology & EEV

Benefits

- Efficiency – lower running costs (up to 40%)
- Stable cold room temp (less dehumidification and better food conservation)
- Less defrost cycles (more energy savings)
- No peak currents

Smart controls

Benefits

- Smart controls for end user
- Advance controls for installers including remote monitoring (life)

3 Year warranty

Benefits

- Peace of mind that ROI will take place



One unit for all needs and applications (low and medium temp)

Benefits

- Flexible use of Cold room
- Lower stock for Wholesalers

R290 + Low refrigerant charge

Benefits

- 1. Daikin quality
- Future proof (GWP = 0.02)
- Low ecological footprint
- No specific safety countermeasure required

Ceiling- and Wall-mounted range

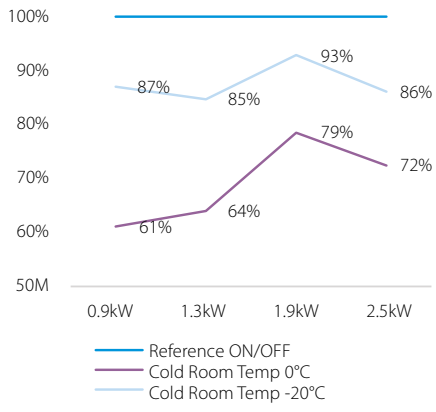
Benefits

- Installation flexibility
- A monoblock for any situation
- Combinable with other solution (SPI)

Proven efficiency in all climate areas

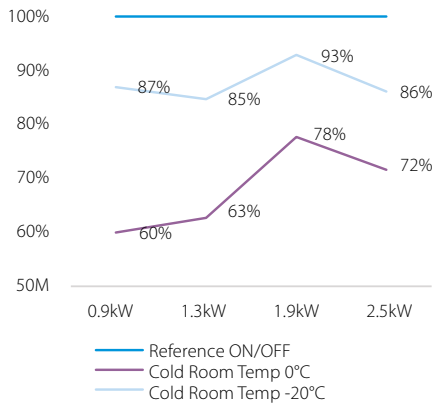
Cold climate: Stockholm

Yearly energy consumption



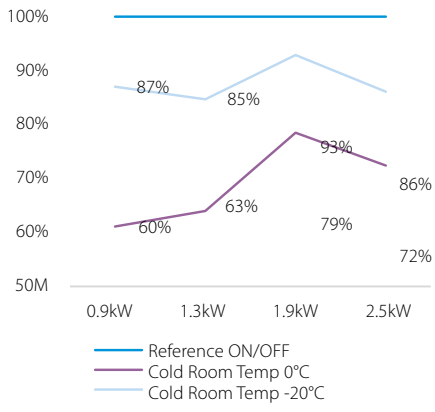
Average climate: Munich

Yearly energy consumption



Hot climate: Madrid

Yearly energy consumption



The full controls of LMC in your hands

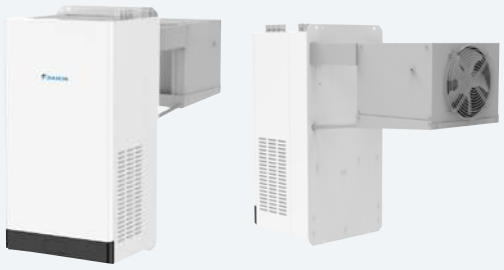
End user: Extended control

- Extended functionalities and controls over the LMS/LMC without the need to get close to the unit

Installer: Full control

- Extended functionalities and controls over the LMS/LMC only accessible for the installer
- Real Remote monitoring, enabling installers to monitor their customers units real-time

Inverter Monoblock for Refrigeration | Model A



Model A

Inverter technology

Reciprocating compressor

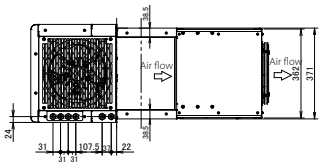
Auto fan speed

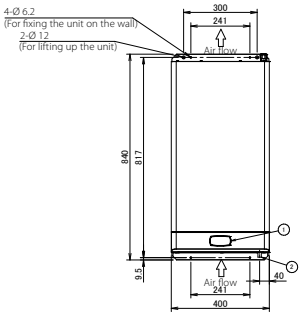
Auto-restart

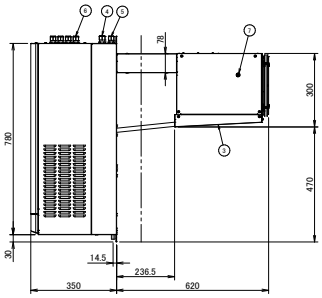
Self-diagnosis

Standard equipment

- Inverter driven hermetic reciprocating compressor
- 50/60 Hz power supply
- CE certified
- Microchannel condenser
- Filter dryer
- Condenser fan ON/OFF controlled by temperature probe
- Electronic thermal expansion valve
- Condensate evaporation tray
- Hot gas defrost
- Propane refrigerant charge => 150gr
- Electronic control board
- Electrical switchboard with protection fuses
- Fixed calibration HP switch with automatic reset
- Automatic elimination of condensation water
- 5 m cable for power supply
- 2 m cold room lighting cable (Light bulb and bulb as option)
- 5 m micro-switch door cable (Microswitch as option)
- 5 m cable for door heater







LMSEY

			LMSEY1A-AVM01	LMSEY1A09AVM01	LMSEY1A13AVM01
Dimensions of the unit	Height	mm		780	
	Depth	mm		970	
	Width	mm		400	
Dimensions of the packaged unit	Height	mm		1,030	
	Depth	mm		1,050	
	Width	mm		500	
Weight of the unit	Weight	kg		52	
Weight of the packaged unit	Weight	kg		66	
Characteristics of the hole where to accommodate the units (through the wall installation	Height	mm		335	
	Width	mm		375	
Characteristics of the holes where to accommodate the units (straddle installation)	Height	mm		83	
	Width	mm		43	
Refrigerant	Type			R290	
	GWP			3	
N° of circuits				1	
Refrigerant	Charge per circuit	kg		0.15	
Power supply	Voltage/phase/frequency	V/ph/Hz		230/1/50-60	
Voltage range (Min/Max)		V		207V/253V	
Rated input power		W	807 (MT) / 523 (LT)		1,103 (MT) / 750 (LT)
Rated input current		A	3,593 (MT) / 2,357 (LT)		4,912 (MT) / 3,380 (LT)
MCA (Max Current Amps)		A	5.9		7.6
MFA (Max Fuse Amps)		A		15	
TOCA (Total overcurrent Amps)		A		9.3	
Compressor	Type			Hermetic reciprocating inverter driven	
Air flow rate condenser (1)		m^3/h		555	
Air flow rate evaporator (1)		m^3/h		597	
Air throw evaporator (2)		m		9.6	
PED category				I	
IP category				20	
Defrost	Type			Hot gas	
Operating sound pressure (3)		dBA		39.4	
Operation range ambient temp.	Min	°C		5	
	Max	°C		45	
Operation range cold room temp.	Min	°C		-25	
	Max	°C		10	

(1) According to EN ISO 5801 | (2) According to CECOMAF GT 6-001 (final velocity = 0.25 m/s) | (3) According to UNI EN ISO 3746

Inverter Monoblock for Refrigeration | Model B



Model B



Inverter technology



Reciprocating compressor



Auto fan speed



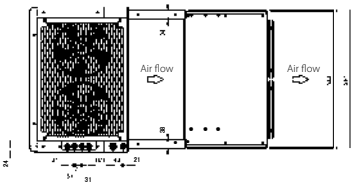
Auto-restart

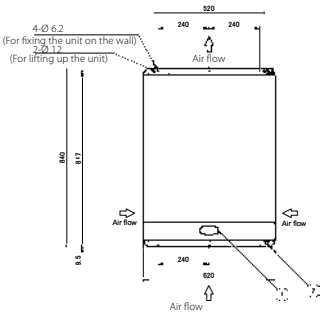


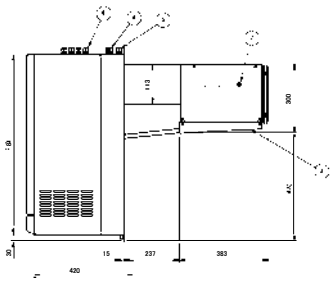
Self-diagnosis

Standard equipment

- Inverter driven hermetic reciprocating compressor
- 50/60 Hz power supply
- CE certified
- Microchannel condenser
- Filter dryer
- Condenser fan ON/OFF controlled by temperature probe
- Electronic thermal expansion valve
- Condensate evaporation tray
- Hot gas defrost
- Propane refrigerant charge (each circuit) => 130gr
- Electronic control board
- Electrical switchboard with protection fuses
- Fixed calibration HP switch with automatic reset
- Automatic elimination of condensation water
- 5 m cable for power supply
- 2 m cold room lighting cable (Light bulb and bulb as option)
- 5 m micro-switch door cable (Microswitch as option)
- 5 m cable for door heater





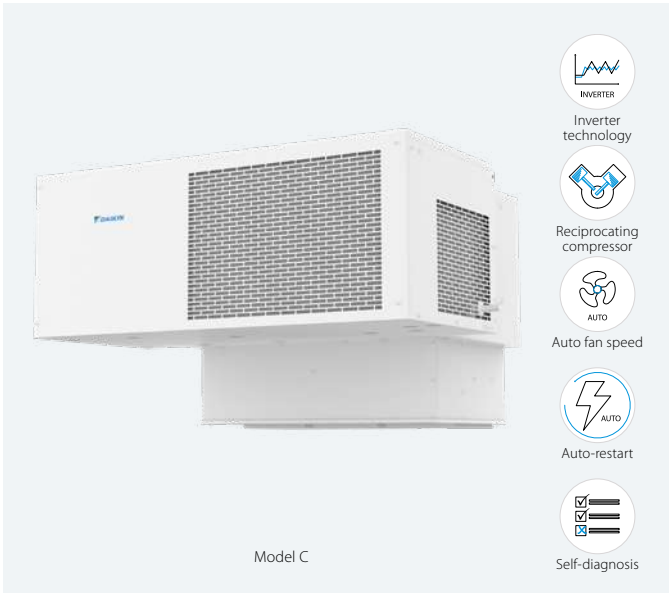


LMSEY

			LMSEY2A-AYE01	LMSEY2A19AYE01	LMSEY2A25AYE01
Dimensions of the unit	Height	mm	780		
	Depth	mm	1,040		
	Width	mm	620		
Dimensions of the packaged unit	Height	mm	1,030		
	Depth	mm	1,120		
	Width	mm	720		
Weight of the unit	Weight	kg	83.5		
Weight of the packaged unit	Weight	kg	107.5		
Characteristics of the hole where to accommodate the units (through the wall installation	Height	mm	335		
	Width	mm	595		
Characteristics of the holes where to accommodate the units (straddle installation)	Height	mm	177		
	Width	mm	43		
Refrigerant	Type		R290		
	GWP		3		
N° of circuits			2		
Refrigerant	Charge per circuit	kg	0.13		
Power supply	Voltage/phase/frequency	V/ph/Hz	400/3/50-60		
Voltage range (Min/Max)		V	360V/440V		
Rated input power		W		1,765 (MT) / 1,208 (LT)	2,275 (MT) / 1,563 (LT)
Rated input current		A		4,645 (MT) / 3,179 (LT)	5,987 (MT) / 4,113 (LT)
MCA (Max Current Amps)		A		11.3	14.6
MFA (Max Fuse Amps)		A	25		
TOCA (Total overcurrent Amps)		A	18.5		
Compressor	Type		Hermetic reciprocating inverter driven		
Air flow rate condenser (1)		m^3/h	939		
Air flow rate evaporator (1)		m^3/h	1,114		
Air throw evaporator (2)		m	9.6		
PED category			I		
IP category			20		
Defrost	Type		Hot gas		
Operating sound pressure (3)		dBA	43.9		
Operation range ambient temp.	Min	°C	5		
	Max	°C	45		
Operation range cold room temp.	Min	°C	-25		
	Max	°C	10		

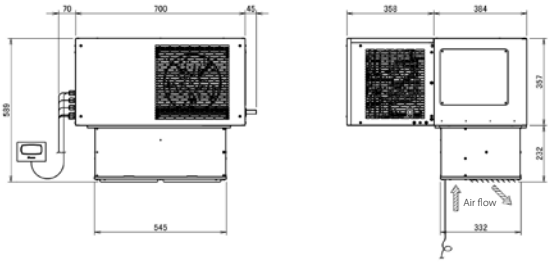
(1) According to EN ISO 5801 | (2) According to CECOMAF GT 6-001 (final velocity = 0.25 m/s) | (3) According to UNI EN ISO 3746

Inverter Monoblock for Refrigeration | Model C



Standard equipment

- Inverter driven hermetic reciprocating compressor
- 50/60 Hz power supply
- CE certified
- Filter dryer
- Electronic expansion valve
- Hot gas defrost
- Electronic control board
- Electrical switchboard with protection fuses
- Fixed calibration HP switch with automatic reset
- 5 m cable for power supply
- 2 m cold room lighting cable (Light bulb and bulb as option)
- 5 m micro-switch door cable (Microswitch as option)
- 5 m cable for door heater
- Remote control panel (as standard)
- 5m cable for remote control panel
- Microchannel air cooled condenser

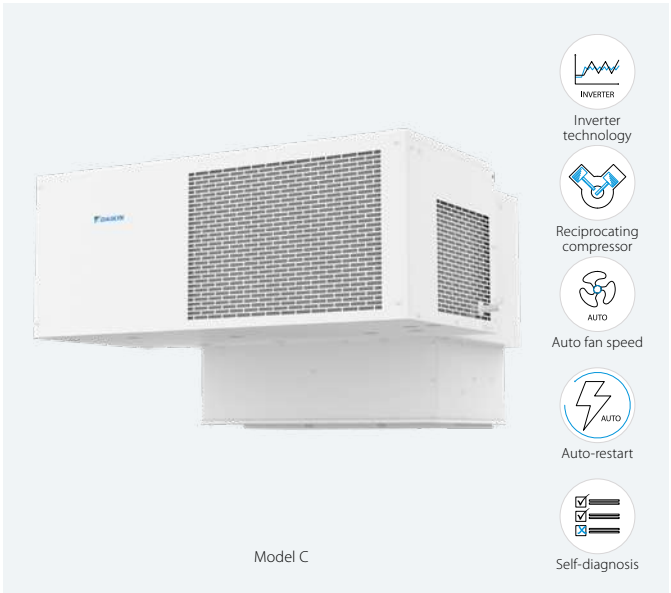


LMCEY

				LMCEY1A13AVM01
Dimensions of the unit	Height		mm	578
	Depth		mm	742
	Width		mm	700
Dimensions of the packaged unit	Height		mm	754
	Depth		mm	780
	Width		mm	882
Weight of the unit	Weight		kg	60
Weight of the packaged unit	Weight		kg	81
Characteristics of the hole where to accommodate the units (through the wall installation	Height		mm	337
	Width		mm	550
Refrigerant	Type			R-290
	GWP			3
N° of circuits				1
Refrigerant	Charge per circuit		kg	0.15
Power supply	Voltage/phase/frequency		V/ph/Hz	230/1/50-60
Voltage range (Min/Max)			V	230 +/-10%
MCA (Max Current Amps)			A	7.6
MFA (Max Fuse Amps)			A	15
Compressor	Type			Hermetic reciprocating inverter driven
Air flow rate condenser (1)			m^3/h	532
Air flow rate evaporator (1)			m^3/h	336
Air throw evaporator (2)			m	1.3
PED category				Art4.3
IP category				20
Defrost		Type		Hot gas
Operating sound pressure (3)			dBA	38
Operation range ambient temp.		Min	°C	5
		Max	°C	45
Operation range cold room temp.		Min	°C	-25
		Max	°C	10

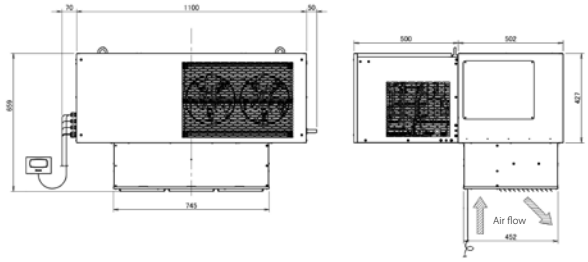
(1) According to EN ISO 5801 | (2) According to CECOMAF GT 6-001 (final velocity = 0.25 m/s) | (3) According to UNI EN ISO 3746

Inverter Monoblock for Refrigeration | Model D



Standard equipment

- Inverter driven hermetic reciprocating compressor
- 50/60 Hz power supply
- CE certified
- Filter dryer
- Electronic expansion valve
- Hot gas defrost
- Electronic control board
- Electrical switchboard with protection fuses
- Fixed calibration HP switch with automatic reset
- 5 m cable for power supply
- 2 m cold room lighting cable (Light bulb and bulb as option)
- 5 m micro-switch door cable (Microswitch as option)
- 5 m cable for door heater
- Remote control panel (as standard)
- 5m cable for remote control panel
- Microchannel air cooled condenser



LMCEY

				LMCEY2A19AYE01	LMCEY2A25AYE01
Dimensions of the unit	Height		mm	659	659
	Depth		mm	1,002	1,002
	Width		mm	1,100	1,100
Dimensions of the packaged unit	Height		mm	881	881
	Depth		mm	1,061	1,061
	Width		mm	1,300	1,300
Weight of the unit	Weight		kg	101	101
Weight of the packaged unit	Weight		kg	154	154
Characteristics of the hole where to accommodate the units (through the wall installation	Height		mm	458	458
	Width		mm	750	750
Refrigerant	Type			R-290	R-290
	GWP			3	3
N° of circuits				2	2
Refrigerant	charge per circuit		kg	0.13	0.13
Power supply	Voltage/phase/frequency		V/ph/Hz	400/3/50-60	400/3/50-60
Voltage range (Min/Max)			V	400 +/-10%	400 +/-10%
MCA (Max Current Amps)			A	11.3	14.6
MFA (Max Fuse Amps)			A	25	25
Compressor	Type			Hermetic reciprocating inverter driven	Hermetic reciprocating inverter driven
Air flow rate condenser (1)			m^3/h	1,030	1,030
Air flow rate evaporator (1)			m^3/h	865	865
Air throw evaporator (2)			m	1.7	1.7
PED category				Art4.3	Art4.3
IP category				20	20
Defrost		Type		Hot gas	Hot gas
Operating sound pressure (3)			dBA	44	44
Operation range ambient temp.		Min	°C	5	5
		Max	°C	45	45
Operation range cold room temp.		Min	°C	-25	-25
		Max	°C	10	10

(1) According to EN ISO 5801 | (2) According to CECOMAF GT 6-001 (final velocity = 0.25 m/s) | (3) According to UNI EN ISO 3746

On/Off Monoblock for Refrigeration



PS

Ceiling mounted version coming soon!

Standard equipment

- 1 year warranty
- 50 Hz power supply
- CE certified
- Ambient working temperature: +5°C ÷ +45°C
- Cold room working temperature: MT +10°C / -5°C | LT -15°C / -25°C
- MT and LT in separate models
- Hermetic reciprocating compressor
- Suitable for 100mm and 150mm panel
- Fin&tube condenser
- Fin&tube evaporator
- Filter dryer
- Thermal expansion valve
- Condensate evaporation tray with automatic elimination of condensation water
- Fixed calibration HP switch with automatic reset
- Hot gas defrost
- Propane refrigerant charge 150 gr max per circuit
- Electronic control board
- Master slave connection
- Serial output
- Predisposition for connection of "Man in cold room" alarm

- 5m cable for power supply
- 2m cold room lighting cable (Light bulb holder and bulb as option)
- 5m microswitch door cable (Microswitch as option)
- 5m cable for door heater (LT units only)

			MPS1107YA11A	MPS1110YA11A	MPS3112YA11A	MPS3220YA11A	BPS3112YA11A	BPS3115YA11A	BPS3224YA11A	BPS3230YA11A
Application			Medium temperature units				Low temperature units			
Dimensions of the unit	Height	mm	745		850					
	Depth	mm	935		1,010					
	Width	mm	400		650					
Dimensions of the packaged unit	Height	mm	982		1,082					
	Depth	mm	985		1,040					
	Width	mm	445		684					
Weight of the unit	Weight	kg	50		87.6	93	87.6		105.4	
Weight of the packaged unit	Weight	kg	62.5		110.1	115.5	110.1		127.9	
Characteristics of the hole where to accommodate the units (through the wall installation)	Height	mm	335		335					
	Width	mm	375		585					
Characteristics of the holes where to accommodate the units (straddle installation)	a	mm	43		40					
	b	mm	288		470					
	c	mm	43		60					
	d	mm	88		145					
	e	mm	19							
	f	mm	28							
	g	mm	321		320	420	320		420	
Refrigerant	Type		R290							
	GWP		3							
N° of circuits			1			2	1		2	
Refrigerant	Charge per circuit	kg	0.15 max / circuit							
Power supply	Voltage/phase/frequency	Vac/ph/Hz	230/1N~/50Hz							
Voltage range (Min/Max)		V	207-250							
Rated input power		W	580	750	1,430	1,840	1,090	1,240	1,740	2,040
Rated input current		A	3.76	3.68	6.86	8.58	5.62	6.06	9.22	10.1
Max input power		W	900	920	1,680	2,140	1,310	1,680	2,250	2,985
MCA (Max Current Amps)		A	4.89	4.99	9.12	11.62	7.12	9.12	12.22	16.22
MFA (Max Fuse Amps)		A	10							
TOCA (Total overcurrent Amps)		A	23	29	49	68	37	43	72	84
Compressor	Type		Hermetic reciprocating (ON/OFF controlled)							
Air flow rate condenser (1)		m^3/h	530	530	930	1,030	930	930	1,030	1,030
Air flow rate evaporator (1)		m^3/h	590	590	1,150	1,230	1,150	1,150	1,230	1,230
Air throw evaporator (2)		m	5	5	5	5	5	5	5	5
PED category			I							
IP category			IPX0							
Defrost			Hot gas							
Condenser operating sound pressure (3)		dBA (10m)	38.5		47.5					
Operation range ambient temperature	Min	°C	5							
	Max	°C	45							
Operation range cold room temperature	Min	°C	-5				-25			
	Max	°C	10				-15			

(1) According to EN ISO 5801 | (2) According to CECOMAF GT 6-001 (final velocity = 0.25 m/s) | (3) According to UNI EN ISO 3746

Water-cooled monoblock system for low and medium temperature refrigeration

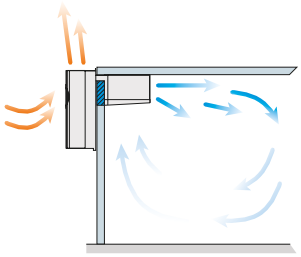


For wall mounted installation in small and medium sized cold rooms

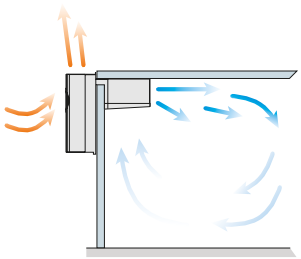
- Rapid mounting on the wall of the cold room by straddlemounting, which is ideal for new installations or through-wall mounting and refurbishment projects
- Metallic grey coloured finish of the outdoor unit
- The white colour of the evaporator blends unobtrusively with the
- cold room walls
- BHPE condenser (Brazed Plate Heat Exchanger)
- The units are provided with a control panel with an easy-to-use interface

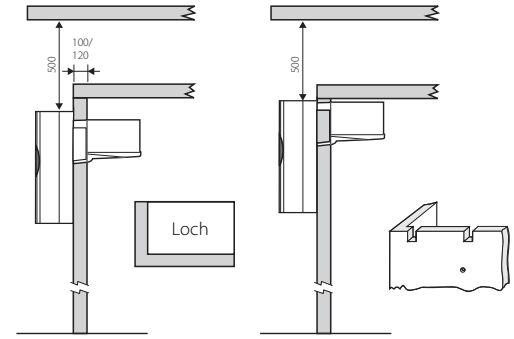
Installation type

Through- wall model



Straddle model

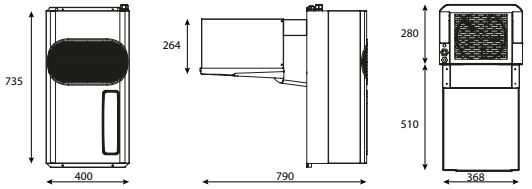




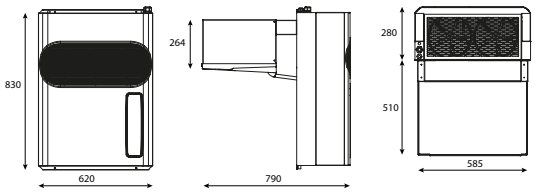
Through- wall model

Straddle model

MGM1280-BGM0870



MGM2210



Medium temperature units		MGM1280Y1WAA	MGM2210Y1WAA
Refrigerant		R290	
Power supply	V/Ph~/Hz	220-230/1N~/50	
HP compressor		0.56	0.9
Defrost		Hot gas	
PED category		0	
Working temperature	°C	+10/-5	
Cooling capacity [TC=0°C | TW=32°C]	Watt	1,338	2,266

Low temperature units		BGM0870Y1WAA
Refrigerant		R290
Power supply	V/Ph~/Hz	220-230/1N~/50
HP compressor		0.9
Defrost		Hot gas
PED category		0
Working temperature	°C	-15/-25
Cooling capacity [TC=-20°C | TW=32°C]	Watt	881

Water-cooled monoblock system for low and medium temperature refrigeration



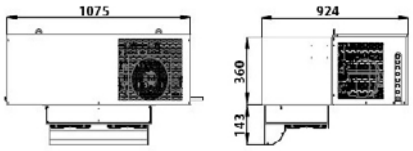
R290 Refrigerant (propane)

For roof mounted installation in small

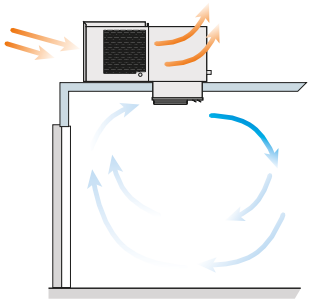
and medium sized cold rooms

- Rapid mounting on the roof of the cold room
- Ceiling assembly leaves the space inside the cold room completely free
- The white colour of the evaporator blends unobtrusively with the cold room walls
- Extremely fast to assemble, reducing installation time and cost
- Best surface-to-capacity ratio
- BHPE condenser (Brazed Plate Heat Exchanger)
- Remote electronic command station with easy-to-use user interface programmable according to various system requirements

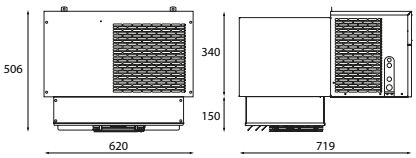
BSB1710



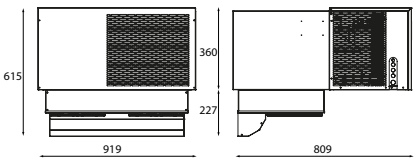
Installation type



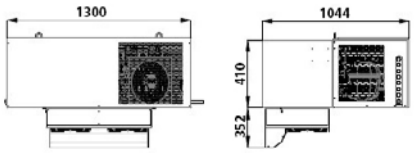
MSB1310 - BSB0870



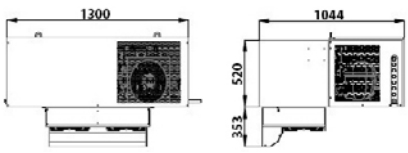
MSB2181



MSB3371

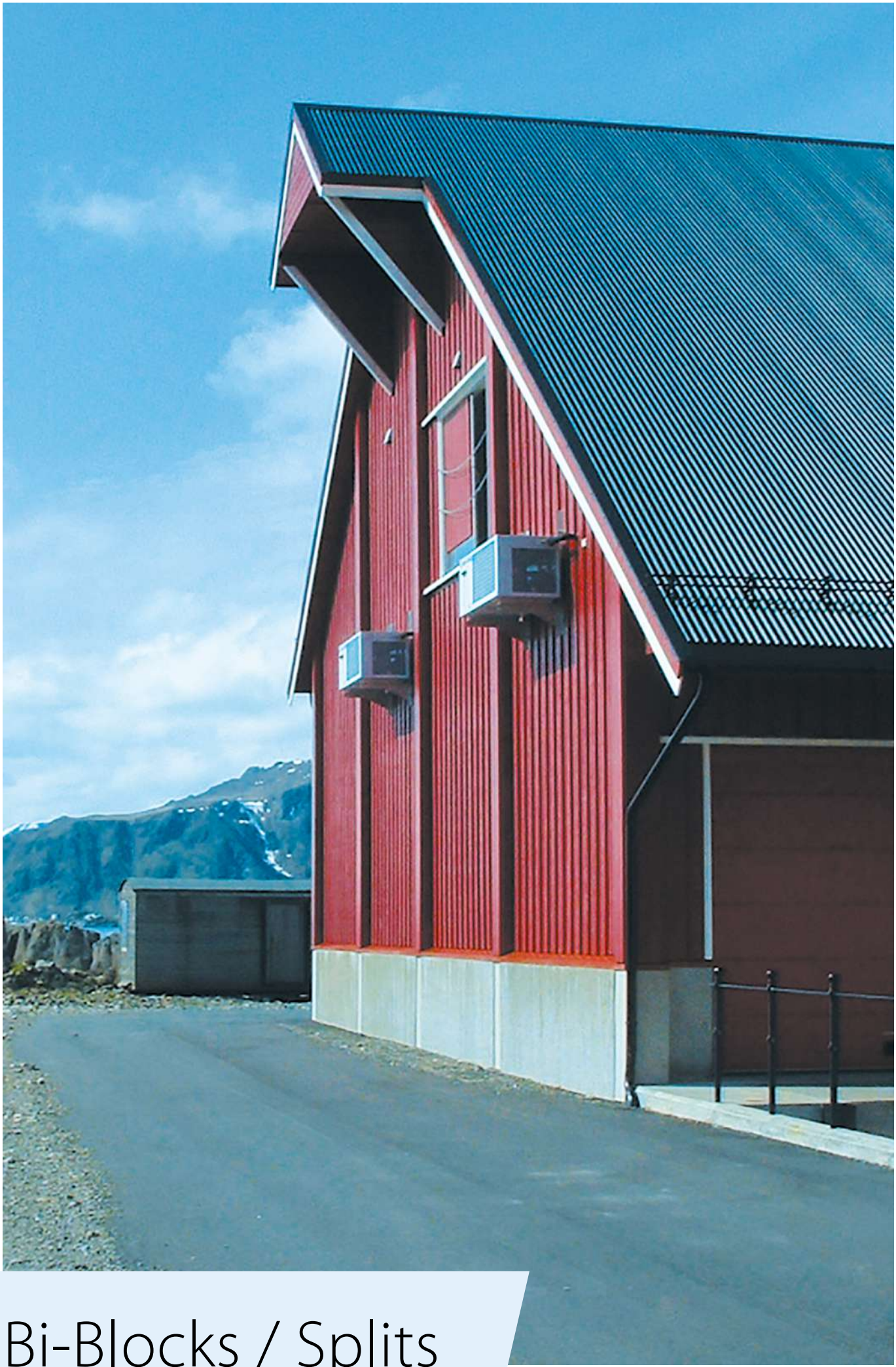


MSB5821-BSB2651



Medium temperature units		MSB1310Y1WAA	MSB2181Y1WAA	MSB3371Y2WAA	MSB5821Y3WBA
Refrigerant		R290			
Power supply	V/Ph~/Hz	220-230/1N~/50			380-400/3N~/50
HP compressor		0.56	0.9	2x0.56	3x0.9
Defrost		Hot gas			
PED category		0			
Working temperature	°C	+10/-5			
Cooling capacity [TC=0°C | TW=32°C]	Watt	1,348	2,231	3,563	5,988

Low temperature units		BSB0870Y1WAA	BSB1710Y2WAA	BSB2651Y3WBA
Refrigerant		R290		
Power supply	V/Ph~/Hz	220-230/1N~/50		380-400/3N~/50
HP compressor		0.9	2x0.9	3x0.9
Defrost		Hot gas		
PED category		0		
Working temperature	°C	-15/-25		
Cooling capacity [TC=-20°C | TW=32°C]	Watt	877	1,747	2,851



Bi-Blocks / Splits

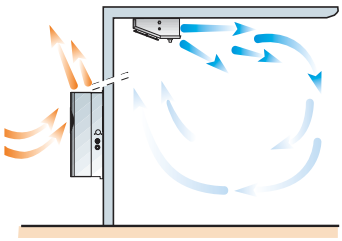
Refrigeration split type units designed for use in small to medium rooms

Condensing unit for wall mounted installation

- Wide versatility of installation of condensing part and evaporating part
- Condensing part body with metallic grey finishing
- The white color of the evaporator part blends discreetly with the walls of the cold room
- Compressor compartment is ready to be insulated with suitable sound-absorbing material to reduce noise levels
- Micro-channel condensers available to reduce the refrigerant charge as much as possible and ensure higher energy efficiency



Installation type



GS

Medium temperature units		SB.MGS103EA12XX	SB.MGS105EA12XX	SB.MGS106EA12XX	SB.MGS107EA12XX	SB.MGS110EA12XX	SB.MGS211EA12XX	SB.MGS212EB12XX	SB.MGS315EB13XX	SB.MGS320EB13XX
Refrigerant		R134a								
Power supply	V/Ph~/Hz	220-230/1N~/50						380-400/3N~/50		
HP compressor		1/2	5/8	3/4	1	1.2		2.3	3	3.5
Defrost		Electric								
PED category		0								
Working temperature	°C	+10 ÷ -5								
Cooling capacity [TC=0°C | TA=30°C]	Watt	855	978	1,120	1,315	1,351	1,806	2,034	3,079	3,351

Low temperature units		SB.BGS110DA12XX	SB.BGS112DA12XX	SB.BGS117DA12XX	SB.BGS218DA12XX	SB.BGS220DB12XX	SB.BGS320DB13XX	SB.BGS330DB13XX	SB.BGS340DB13XX
Refrigerant		R452A							
Power supply	V/Ph~/Hz	220-230/1N~/50				380-400/3N~/50			
HP compressor		1	1.2	1.7		2		3	4
Defrost		Electric							
PED category		0							2
Working temperature	°C	-15 ÷ -25							
Cooling capacity [TC=-20°C | TA=30°C]	Watt	679	889	1,155	1,429	1,688	2,491	2,701	3,160

Split units suitable for outdoor installation and for small-medium cold rooms

Condensing unit for floor standing or roof mounted installation

- Condensing unit for floor or roof installation and evaporator for ceiling mounting
- Thermostatic expansion valve for an optimal refrigerant flow rate and for higher energy efficiency
- Extremely quick mounting thanks to the quick coupling joints
- Reduced installation times and costs
- Best surface-capacity ratio



Floor standing condenser

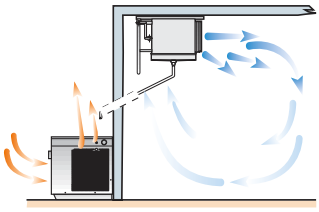


Remote control



Ceiling evaporator

Installation type



DB-O

Medium temperature units		SB.MDB106EA12XX	SB.MDB107EA12XX	SB.MDB212EB12XX	SB.MDB315EB13XX	SB.MDB320EB13XX	SB.MDB425EB13XX
Refrigerant		R134a					
Power supply	V/Ph~/Hz	220-230/1N~/50			380-400/3N~/50		
HP compressor		3/4	1	1.2	3	3.5	4
Defrost		Electric					
PED category		1					
Working temp.	°C	+10 ÷ -5					
Cooling capacity [TC=0°C | TA=30°C]	Watt	1,140	1,422	1,816	3,188	3,492	3,948
Cooling capacity [TC=-20°C | TA=30°C]	Watt	-					

Medium temperature units		SB.MDB530EB13XX	SB.MDB635EB13XX	SB.MDB645EB13XX	SB.MDB706EB13XX	SB.MDB707EB13XX
Refrigerant		R134a				
Power supply	V/Ph~/Hz	380-400/3N~/50				
HP compressor		3.7	4.8	6.3	7.4	9.5
Defrost		Electric				
PED category		2				
Working temp.	°C	+10 ÷ -5				
Cooling capacity [TC=0°C | TA=30°C]	Watt	5,070	7,293	8,779	11,014	14,069
Cooling capacity [TC=-20°C | TA=30°C]	Watt					

Low temperature units		SB.BDB110DA12XX	SB.BDB112DA12XX	SB.BDB117DA12XX	SB.BDB218DA12XX	SB.BDB220DB12XX	SB.BDB320DB13XX	SB.BDB330DB13XX
Refrigerant		R452A						
Power supply	V/Ph~/Hz	220-230/1N~/50				380-400/3N~/50		
HP compressor		1	1.5	1.7		2		3
Defrost		Electric						
PED category		1						
Working temp.	°C	-15 ÷ -25						
Cooling capacity [TC=0°C | TA=30°C]	Watt	-						
Cooling capacity [TC=-20°C | TA=30°C]	Watt	662	905	1,164	1,436	1,719	2,384	2,581

Low temperature units		SB.BDB440DB13XX	SB.BDB445DB13XX	SB.BDB550DB13XX	SB.BDB660DB13XX	SB.BDB680DB13XX	SB.BDB710DB13XX	SB.BDB713DB13XX
Refrigerant		R452A						
Power supply	V/Ph~/Hz	380-400/3N~/50						
HP compressor		3.5	4	3.7	5.5	7.5	9.6	11
Defrost		Electric						
PED category		2						
Working temp.	°C	-15 ÷ -25						
Cooling capacity [TC=0°C | TA=30°C]	Watt	-						
Cooling capacity [TC=-20°C | TA=30°C]	Watt	3,283	3,604	4,925	7,492	8,940	11,537	12,735

* Only for external use

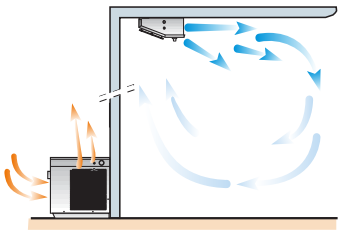
Refrigeration split type units suitable for small-medium cold rooms



Condensing unit for floor standing or roof mounted installation

- Condensing unit for floor or roof installation and evaporator for ceiling mounting
- Extremely quick mounting thanks to the quick coupling joints
- Reduced installation times and costs
- Best surface-capacity ratio

Installation type



SP-O

Medium temperature units		SB.MSP106EA12XX	SB.MSP107EA12XX	SB.MSP212EA12XX	SB.MSP315EB13XX	SB.MSP320EB13XX
Refrigerant		R134a				
Power supply	V/Ph~/Hz	220-230/1N~/50			380-400/3N~/50	
HP compressor		3/4	1	1.2	3	3.5
Defrost		Electric				
PED category		0				
Working temperature	°C	+10 ÷ -5				
Cooling capacity [TC=0°C | TA=30°C]	Watt	1,140	1,422	1,816	3,188	3,492

Low temperature units		SB.BSP110DA12XX	SB.BSP112DA12XX	SB.BSP117DA12XX	SB.BSP218DA12XX	SB.BSP220DB12XX	SB.BSP320DB13XX	SB.BSP330DB13XX
Refrigerant		R452A						
Power supply	V/Ph~/Hz	220-230/1N~/50				380-400/3N~/50		
HP compressor		1	1.5	1.7		2		3
Defrost		Electric						
PED category		0						
Working temperature	°C	-15 ÷ -25						
Cooling capacity [TC=-20°C | TA=30°C]	Watt	662	905	1,164	1,436	1,719	2,384	2,581

Bi-block system for wine application

Compact condensing unit and small-sized wall or ceiling mounted evaporators

- Accurate humidity and temperature control to guarantee the quality of products (e.g. wines)
- Thermostatic expansion valve ensuring optimum capacity in accordance with the required load for better energy efficiency
- Integrated humidifier available depending on model to have one unit which covers it all: perfect humidity & temperature control
- Electronic controller managing both temperature and humidity of the cold room



Ceiling evaporator

Reciprocating compressor

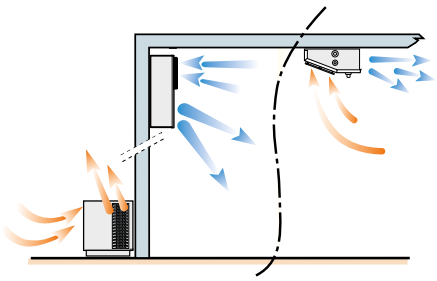


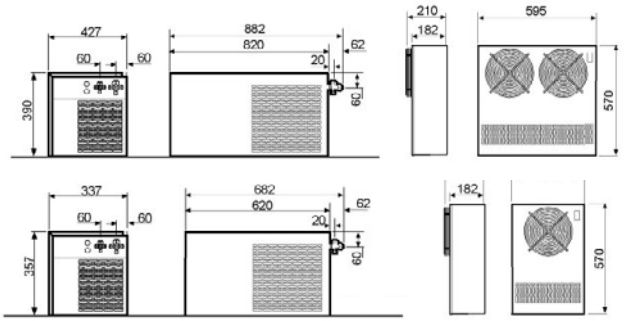
Wall evaporator



RDV Condensing unit

Installation type





RDV

		SB.RDV103EA12S3	SB.RDV105EA12S3	SB.RDV206EA12S3	SB.RDV207EA12S3	SB.RDV103EA12S7	SB.RDV105EA12S7	SB.RDV206EA12S7	SB.RDV207EA12S7
Refrigerant		R134a				R134a			
Power supply	V/Ph~/Hz	220-230/1N~/50				220-230/1N~/50			
HP compressor		1/3	3/8	1/2	3/4	1/3	3/8	1/2	3/4
Evaporator type		Wall mounting evaporator				Ceiling mounting evaporator			
PED category		1				1			
Working temperature	°C	+20 ÷ +10				+20 ÷ +10			
Range RH	%	60-80				60-80			
Cooling capacity [TC=10°C | TA=30°C]	Watt	593	912	1,336	1,935	593	912	1,336	1,935



Condensing units

Condensing unit for commercial refrigeration with reciprocating technology

Refrigeration solution for small food retailers

- Designed specifically for small capacity refrigeration applications in small food stores (eg. in bakeries and butchers), cold rooms, bottle coolers and display cabinets
- Compact and lightweight for even the smallest of city centre locations
- All components can be accessed, making maintenance quick and easy
- Ideal for urban applications: sound proofing and low operating sound levels mean the unit is quiet
- The optimised compressor range and increased condenser surface deliver high levels of energy efficiency and reliability is ensured by using high quality components and production processes
- Micro channel heat exchanger technology reduces the amount of refrigerant used in the system, lowering environmental impact



Reciprocating compressor

JEHCCU-CM1/CM3

JEHCCU-CM3 JEHCCU-CM1

Medium Temperature Refrigeration					JEHCCU-CM1/CM3	0040CM1	0050CM1	0051CM1	0063CM1	0067CM1	0077CM1	0095CM1	0100CM1	0113CM1	0140CM1	0170CM1	0140CM3	0170CM3
Refrigerating capacity	Medium temperature (1)	R-134a	Nom	kW		0.59	-	0.89	1.06	-	1.29	1.60		-		-	-	-
		R-407A	Nom	kW		-	0.80		-	1.07		-	1.33	1.66	1.92	-	1.92	-
		R-407F	Nom	kW		-	0.86		-	1.15		-	1.41	1.74	2.08	-	2.08	-
		R-448A	Nom	kW		-	0.87		-	1.12		-	1.35	1.64	2.15	2.57	2.15	2.57
		R-449A	Nom	kW		-	0.87		-	1.12		-	1.35	1.64	2.15	2.57	2.15	2.57
		R-452A	Nom	kW		-	0.95		-	1.23		-	1.48	1.79	2.20	2.69	2.20	2.69
Seasonal energy performance ratio SEPR	R-134a	Te -10°C				1.50	-	1.77	1.77	-	1.85	1.86		-			-	-
	R-407A	Te -10°C				-	1.59		-	1.62		-	1.66	1.78	1.74	-	1.66	-
	R-407F	Te -10°C				-	1.77		-	1.76		-	1.77	1.85	1.93	-	1.85	-
	R-448A	Te -10°C				-	1.66		-	1.64		-	1.64	1.71	2.09	1.73	2.00	1.76
	R-449A	Te -10°C				-	1.66		-	1.64		-	1.64	1.71	2.09	1.73	2.00	1.76
	R-452A	Te -10°C				-	1.67		-	1.67		-	1.68	1.73	1.92	1.65	1.83	1.73
Parameters at full load and ambient temp. 25°C	R-134a	Te -10°C	Declared COP (COP2)			1.84	-	2.01	2.05	-	2.22	2.30		-			-	
	R-407A	Te -10°C	Declared COP (COP2)			-	1.69		-	1.69		-	1.74	1.90	1.87	-	2.09	-
	R-407F	Te -10°C	Declared COP (COP2)			-	1.93		-	1.94		-	1.95	2.07	2.22	-	1.78	-
	R-448A	Te -10°C	Declared COP (COP2)			-	1.91		-	1.90		-	1.89	1.95	2.42	1.93	2.11	2.01
	R-449A	Te -10°C	Declared COP (COP2)			-	1.91		-	1.90		-	1.89	1.95	2.42	1.93	2.32	2.01
	R-452A	Te -10°C	Declared COP (COP2)			-	1.90		-	1.90		-	1.90	1.98	2.18	1.85	2.32	1.99
Parameters at full load and ambient temp. 32°C (Point A)	R-134a	Te -10°C	Rated COP (COPA)			1.5	-	1.77	1.77	-	1.85	1.86		-		-	-	-
	R-407A	Te -10°C	Rated COP (COPA)			-	1.59		-	1.62		-	1.66	1.78	1.74	-	1.66	-
	R-407F	Te -10°C	Rated COP (COPA)			-	1.77		-	1.76		-	1.77	1.85	1.93	-	1.85	-
	R-448A	Te -10°C	Rated COP (COPA)			-	1.66		-	1.64		-	1.64	1.71	2.09	1.73	2.00	1.76
	R-449A	Te -10°C	Rated COP (COPA)			-	1.66		-	1.64		-	1.64	1.71	2.09	1.73	2.00	1.76
	R-452A	Te -10°C	Rated COP (COPA)			-	1.67		-	1.67		-	1.68	1.73	1.92	1.65	1.83	1.73
	R-134a	Te -10°C	Rated cooling capacity (PA)	kW		0.59	-	0.89	1.06	-	1.29	1.60		-		-	-	-
	R-407A	Te -10°C	Rated cooling capacity (PA)	kW		-	0.80		-	1.07		-	1.33	1.66	1.92	-	1.92	-
	R-407F	Te -10°C	Rated cooling capacity (PA)	kW		-	0.86		-	1.15		-	1.41	1.74	2.08	-	2.08	-
	R-448A	Te -10°C	Rated cooling capacity (PA)	kW		-	0.87		-	1.12		-	1.35	1.64	2.15	2.57	2.15	2.57
	R-449A	Te -10°C	Rated cooling capacity (PA)	kW		-	0.87		-	1.12		-	1.35	1.64	2.15	2.57	2.15	2.57
	R-452A	Te -10°C	Rated cooling capacity (PA)	kW		-	0.95		-	1.23		-	1.48	1.79	2.20	2.69	2.20	2.69
	R-134a	Te -10°C	Rated power input (DA)	kW		0.39	-	0.50	0.60	-	0.70	0.86		-		-	-	-
	R-407A	Te -10°C	Rated power input (DA)	kW		-	0.50		-	0.66		-	0.80	0.94	1.11	-	1.16	-
	R-407F	Te -10°C	Rated power input (DA)	kW		-	0.49		-	0.65		-	0.79	0.94	1.07	-	1.12	-
	R-448A	Te -10°C	Rated power input (DA)	kW		-	0.53		-	0.68		-	0.82	0.96	1.03	1.49	1.08	1.46
	R-449A	Te -10°C	Rated power input (DA)	kW		-	0.53		-	0.68		-	0.82	0.96	1.03	1.49	1.08	1.46
	R-452A	Te -10°C	Rated power input (DA)	kW		-	0.57		-	0.74		-	0.88	1.03	1.15	1.63	1.20	1.55
Parameters at full load and ambient temp. 43°C	R-134a	Te -10°C	Declared COP (COP3)			1.42	-	1.40	1.40	-	1.49	1.50		-		-	-	-
	R-407A	Te -10°C	Declared COP (COP3)			-	1.42				-				1.56	-	1.47	-
	R-407F	Te -10°C	Declared COP (COP3)			-	1.46				-				1.58	-	1.49	-
	R-448A	Te -10°C	Declared COP (COP3)			-	1.27		-	1.26		-	1.25	1.33	1.62	1.42	1.53	1.43
	R-449A	Te -10°C	Declared COP (COP3)			-	1.27		-	1.26		-	1.25	1.33	1.62	1.42	1.53	1.43
	R-452A	Te -10°C	Declared COP (COP3)			-	1.31		-	1.32		-	1.34	1.37	1.52	1.35	1.44	1.39
	R-134a	Te -10°C	Cooling capacity (P3)	kW			-	0.75	0.86	-	1.06	1.34		-		-	-	
	R-407A	Te -10°C	Cooling capacity (P3)	kW			0.75				-				1.79	-	1.78	
	R-407F	Te -10°C	Cooling capacity (P3)	kW			0.79				-				1.85	-	1.84	
	R-448A	Te -10°C	Cooling capacity (P3)	kW		-	0.73		-	0.91		-	1.10	1.34	1.79	2.23	1.77	2.20
	R-449A	Te -10°C	Cooling capacity (P3)	kW		-	0.73		-	0.91		-	1.10	1.34	1.79	2.23	1.77	2.20
	R-452A	Te -10°C	Cooling capacity (P3)	kW		-	0.80		-	1.01		-	1.23	1.46	1.83	2.28	1.81	2.26
	R-134a	Te -10°C	Power input (D3)	kW		0.36	-	0.53	0.62	-	0.71	0.89		-		-	-	-
	R-407A	Te -10°C	Power input (D3)	kW		-	0.53				-				1.15	-	1.21	-
	R-407F	Te -10°C	Power input (D3)	kW		-	0.54				-				1.17	-	1.23	-
	R-448A	Te -10°C	Power input (D3)	kW		-	0.58		-	0.73		-	0.88	1.01	1.11	1.57	1.16	1.54
	R-449A	Te -10°C	Power input (D3)	kW		-	0.58		-	0.73		-	0.88	1.01	1.11	1.57	1.16	1.54
	R-452A	Te -10°C	Power input (D3)	kW		-	0.61		-	0.77		-	0.92	1.06	1.20	1.69	1.26	1.62
Dimensions	Unit	HeightxWidthxDepth		mm		607x876x420									662x1,101x444			
Weight	Unit			kg		49		57		56	58		57	58	67	68	67	68
Compressor	Type					Reciprocating compressor												
	Piston displacement			m^3/h		1.8		3.18	3.79	2.64	4.51	5.69	3.18	4.21	4.52	4.52	4.52	4.52
Fan	Type					Axial												
Sound pressure level	Nom.			dBA		28									32	33	32	33
Piping connections	Liquid line connection			inch		1/4"				3/8"								
	Suction line connection			inch		3/8"				1/2"					5/8		5/8	
Refrigerant	Type/GWP					R-134a/ 1,430	R-452A/ 2,141	R-134a/1,430		R-452A/ 2,141	R-134a/1,430		R-452A/2,141			R-452A/ 2,141	R-407A/ 2,107	R-452A/ 2,141
	Type 2 - GWP Type 2					-	R-407A/ 2,107	-		R-407A/ 2,107	-		R-407A/2,107			R-448A/ 1,387	R-407F/ 1,825	R-448A/ 1,387
	Type 3 - GWP Type 3					-	R-407F/ 1,825	-		R-407F/ 1,825	-		R-407F/1,825			R-449A/ 1,397	R-448A/ 1,387	R-449A/ 1,397
	Type 4 - GWP Type 4					-	R-448A/ 1,387	-		R-448A/ 1,387	-		R-448A/ 1,387	R-449A/ 1,397	R-448A/ 1,387	-	R-449A/ 1,397	-
	Type 5 - GWP Type 5					-	R-449A/ 1,397	-		R-449A/ 1,397	-		R-449A/ 1,397	-	R-449A/ 1,397	-	R-452A/ 1,397	-
	GWP Type 6					-											2,140.0	-
Power supply	Phase/Frequency/Voltage			Hz/V		1~/50/230											3~/50/400	

(1) Refer to condition: Outside ambient temperature = 32°C, Evaporation temperature = -10°C and Return Gas 20°C (medium temperature application) | (2) Average sound pressure level is measured at 10m in anechoic room

Condensing unit for commercial refrigeration with scroll technology

Refrigeration solution for small food retailers

- Designed specifically for small capacity refrigeration applications in small food stores (eg. in bakeries and butchers), cold rooms, bottle coolers and display cabinets
- Compact and lightweight for even the smallest of city centre locations
- All components can be accessed, making maintenance quick and easy
- Ideal for urban applications: sound proofing and low operating sound levels mean the unit is quiet
- The optimised compressor range and increased condenser surface deliver high levels of energy efficiency and reliability is ensured by using high quality components and production processes
- Micro channel heat exchanger technology reduces the amount of refrigerant used in the system, lowering environmental impact



JEHSCU-CM1/CM3

Scroll compressor

JEHSCU-CM1 JEHSCU-CM3

Medium Temperature Refrigeration					JEHSCU-CM1/CM3	0200CM1	0250CM1	0300CM1	0200CM3	0250CM3	0300CM3	0350CM3	0360CM3	0400CM3	0500CM3	0600CM3	0680CM3	0800CM3	1000CM3
Refrigerating capacity	Medium temperature (1)	R-134a	Nom	kW		2.13	-		2.24	-		3.48	3.80	4.37	-	-	-	8.21	10.75
		R-407A	Nom	kW		3.48	4.09	-	3.45	4.05	4.69	-	5.77	6.76	8.28	9.54	10.7	12.95	-
		R-407F	Nom	kW		3.33	3.82	4.63	3.33	3.94	4.58	-	5.73	6.75	8.18	9.59	-	12.9	-
		R-407H	Nom	kW			-		3.30	3.76	4.51	-	-	5.96	-	9.24	10.3	12.3	-
		R-448A	Nom	kW		3.33	3.82	4.73	3.33	3.82	4.73	5.46	5.76	6.37	7.88	9.45	10.5	12.8	15.85
		R-449A	Nom	kW		3.33	3.82	4.73	3.33	3.82	4.73	5.46	5.76	6.37	7.88	9.45	10.5	12.8	15.85
Seasonal energy performance ratio SEPR	R-134a	Te -10°C				1.92	-		2.19	-		2.08	2.36	2.36	-	-	-	3.10	3.37
	R-407A	Te -10°C				2.18	2.06	-	2.12	1.99	1.92	-	3.48	3.79	3.21	3.19	2.96	3.12	-
	R-407F	Te -10°C				1.92	1.83	1.74	1.88	1.83	1.69	-	3.22	3.49	3.07	3.12	-	2.95	-
	R-407H	Te -10°C					-		1.93	2.02	1.80	-	3.15	3.03	-	2.90	2.68	3.24	-
	R-448A	Te -10°C				2.02	1.93	1.85	2.02	1.93	1.85	2.72	3.02	3.13	2.97	3.22	2.96	2.88	2.83
	R-449A	Te -10°C				2.02	1.93	1.85	2.02	1.93	1.85	2.72	3.02	3.13	2.97	3.22	2.96	2.88	2.83
Annual electricity consumption Q	R-134a	Te -10°C										-						16,257	19,586
	R-407A	Te -10°C			kWh/a				-				10,187	10,973	15,848	18,408	22,240	25,491	-
	R-407F	Te -10°C			kWh/a				-				10,933	11,873	16,401	18,903	-	26,882	-
	R-407H	Te -10°C			kWh/a				-				10,664	12,082	-	19,576	23,664	-	
	R-448A	Te -10°C			kWh/a			-				12,363	11,736	12,512	16,305	18,395	22,298	27,302	34,432
	R-449A	Te -10°C			kWh/a			-				12,363	11,736	12,512	16,305	18,395	22,298	27,302	34,432
Parameters at full load and ambient temp. 25°C	R-134a	Te -10°C	Declared COP (COP2)			2.21	-		2.62	-		2.46	2.86	2.90			-		
	R-407A	Te -10°C	Declared COP (COP2)			2.61	2.44	-	2.55	2.36	2.26					-			
	R-407F	Te -10°C	Declared COP (COP2)			2.46	2.33	2.21	2.39	2.29	2.14					-			
	R-407H	Te -10°C	Declared COP (COP2)				-		2.37	2.48	2.21					-			
	R-448A	Te -10°C	Declared COP (COP2)			2.53	2.32	2.23	2.53	2.32	2.23					-			
	R-449A	Te -10°C	Declared COP (COP2)			2.53	2.32	2.23	2.53	2.32	2.23					-			
Parameters at part load and ambient temp. 25°C (Point B)	R-134a	Te -10°C	Declared COP (COPB)									-						2.49	2.7
	R-407A	Te -10°C	Declared COP (COPB)						-				2.77	2.90	2.60	2.51	2.37	2.55	-
	R-407F	Te -10°C	Declared COP (COPB)						-				2.53	2.66	2.36	2.39	-	2.5	-
	R-407H	Te -10°C	Declared COP (COPB)						-				2.47	2.37	-	2.32	2.17	2.68	-
	R-448A	Te -10°C	Declared COP (COPB)					-				2.18	2.56	2.51	2.41	2.39	2.18	2.33	2.26
	R-449A	Te -10°C	Declared COP (COPB)					-				2.18	2.56	2.51	2.41	2.39	2.18	2.33	2.26
Parameters at full load and ambient temp. 32°C (Point A)	R-134a	Te -10°C	Rated COP (COPA)			1.92	-		2.19	-		2.08	2.36	2.36	-	-	-	2.2	2.21
	R-407A	Te -10°C	Rated COP (COPA)			2.18	2.06	-	2.12	1.99	1.92	-	2.24	2.28	2.11	2.05	1.93	2.08	-
	R-407F	Te -10°C	Rated COP (COPA)			1.92	1.83	1.74	1.88	1.83	1.69	-	1.97	2.10	1.88	1.91	-	2.1	-
	R-407H	Te -10°C	Rated COP (COPA)				-		1.93	2.02	1.80	-		1.89	-	1.92	1.78	2.2	-
	R-448A	Te -10°C	Rated COP (COPA)			2.02	1.93	1.85	2.02	1.93	1.85	1.77	2.04	1.98	1.78	1.96	1.79	2.05	1.83
	R-449A	Te -10°C	Rated COP (COPA)			2.02	1.93	1.85	2.02	1.93	1.85	1.77	2.04	1.98	1.78	1.96	1.79	2.05	1.83
	R-134a	Te -10°C	Rated cooling capacity (PA)	kW		2.13	-		2.24	-		3.48	3.80	4.37	-	-	-	8.21	10.75
	R-407A	Te -10°C	Rated cooling capacity (PA)	kW		3.48	4.09	-	3.45	4.05	4.69	-	5.77	6.76	8.28	9.54	10.7	12.95	-
	R-407F	Te -10°C	Rated cooling capacity (PA)	kW		3.33	3.82	4.63	3.33	3.94	4.58	-	5.73	6.75	8.18	9.59	-	12.9	-
	R-407H	Te -10°C	Rated cooling capacity (PA)	kW		-	-	-	3.30	3.76	4.51	-	-	5.96	-	9.24	10.3	12.3	-
	R-448A	Te -10°C	Rated cooling capacity (PA)	kW		3.33	3.82	4.73	3.33	3.82	4.73	5.46	5.76	6.37	7.88	9.45	10.5	12.8	15.85
	R-449A	Te -10°C	Rated cooling capacity (PA)	kW		3.33	3.82	4.73	3.33	3.82	4.73	5.46	5.76	6.37	7.88	9.45	10.5	12.8	15.85
	R-134a	Te -10°C	Rated power input (DA)	kW		1.11	-		1.03	-		1.68	1.61	1.85	-	-	-	3.74	4.86
	R-407A	Te -10°C	Rated power input (DA)	kW		1.60	1.99	-	1.63	2.04	2.45	-	2.58	2.97	3.93	4.65	5.54	6.24	-
	R-407F	Te -10°C	Rated power input (DA)	kW		1.74	2.09	2.66	1.78	2.16	2.71	-	2.91	3.21	4.36	5.03	-	6.13	-
	R-407H	Te -10°C	Rated power input (DA)	kW			-		1.71	1.86	2.50	-		3.15	-	4.82	5.79	5.58	-
	R-448A	Te -10°C	Rated power input (DA)	kW		1.65	1.98	2.56	1.65	1.98	2.56	3.09	2.83	3.22	4.43	4.83	5.85	6.23	8.68
	R-449A	Te -10°C	Rated power input (DA)	kW		1.65	1.98	2.56	1.65	1.98	2.56	3.09	2.83	3.22	4.43	4.83	5.85	6.23	8.68
Parameters at full load and ambient temp. 43°C	R-134a	Te -10°C	Declared COP (COP3)			1.42			-			1.52			-			1.59	1.60
	R-448A	Te -10°C	Declared COP (COP3)			1.31	1.36	1.31	1.31	1.36	1.31	1.26	1.41	1.37	1.24	1.42	1.32	-	
	R-449A	Te -10°C	Declared COP (COP3)			1.31	1.36	1.31	1.31	1.36	1.31	1.26	1.41	1.37	1.24	1.42	1.32	-	
	R-134a	Te -10°C	Cooling capacity (P3)	kW		1.87			-			3.06			-			7.26	9.46
	R-448A	Te -10°C	Cooling capacity (P3)	kW		2.80	3.35	4.12	2.80	3.35	4.12	4.78	4.99	5.57	6.79	8.29	9.25	-	-
	R-449A	Te -10°C	Cooling capacity (P3)	kW		2.80	3.35	4.12	2.80	3.35	4.12	4.78	4.99	5.57	6.79	8.29	9.25	-	-
	R-134a	Te -10°C	Power input (D3)	kW		1.32			-			2.02			-			4.56	5.92
	R-448A	Te -10°C	Power input (D3)	kW		2.14	2.47	3.14	2.14	2.47	3.14	3.78	3.54	4.08	5.46	5.82	7.00	-	
	R-449A	Te -10°C	Power input (D3)	kW		2.14	2.47	3.14	2.14	2.47	3.14	3.78	3.54	4.08	5.46	5.82	7.00	-	
Parameters at part load and ambient temp. 15°C (Point C)	R-134a	Te -10°C	Declared COP (COPC)						-				3.71	4.02	3.43	-		3.26	3.58
	R-407A	Te -10°C	Declared COP (COPC)						-				3.46	3.69	3.24	3.35	3.13	3.34	-
	R-407F	Te -10°C	Declared COP (COPC)						-				3.34	3.22	-	3.3	-	3.14	-
	R-407H	Te -10°C	Declared COP (COPC)						-				3.18	3.34	3.20	3.06	2.84	3.47	-
	R-448A	Te -10°C	Declared COP (COPC)					-				2.88	3.18	3.34	3.20	3.15	2.85	3.02	3.01
	R-449A	Te -10°C	Declared COP (COPC)					-				2.88			-	3.15	2.85	3.26	3.01
Parameters at part load and ambient temp. 5°C (Point D)	R-134a	Te -10°C	Declared COP (COPD)						-				4.85	5.41	4.40	-		4.25	4.66
	R-407A	Te -10°C	Declared COP (COPD)						-				4.48	5.05	4.43	4.49	4.1	4.25	-
	R-407F	Te -10°C	Declared COP (COPD)						-				4.45	4.3	-	4.5	-	3.90	-
	R-407H	Te -10°C	Declared COP (COPD)						-				4.05	4.32	4.12	4.03	3.67	4.36	-
	R-448A	Te -10°C	Declared COP (COPD)					-				3.77		-		4.05	3.68	3.92	3.96
	R-449A	Te -10°C	Declared COP (COPD)					-				3.77	4.05	4.32	4.12	4.05	3.68	3.92	3.96
Dimensions	Unit	HeightxWidthxDepth		mm		662x1,101x444							872x1,353x575					1,727x1,348x641	
Weight	Unit			kg		70	72	74	70	72	74	74	112	119	123	125	126	222	226
Compressor	Type					Reciprocating compressor						Scroll compressor	Reciprocating compressor						
	Piston displacement			m^3/h		5.9	6.8	8.6	5.9	6.8	8.6	9.9	9.9	11.4	14.4	17.1	18.8	22.1	29.1
Fan	Type					Axial													
Sound pressure level	Nom.			dBA		33	34	36	33	34	36	39	37	37	38	40	40	43	43
Piping connections	Liquid line connection			inch		3/8"							1/2"					3/4"	
	Suction line connection			inch		3/4"							3/4"	7/8"		1 1/8"			1 3/8"
Refrigerant	Type/GWP					R-134a/1,430	R-407A/2,107	R-407A/2,107	R-134a/1,430	R-407A/2,107	R-407A/2,107	R-134a/1,430.0	R-134a/1,430	R-134a/1,430	R-407A/2,107	R-407A/2,107	R-407A/2,107	R-134a/1,430	R-134a/1,430
	Type 2 - GWP Type 2					R-407A/2,107	R-407F/1,825	R-448A/1,387	R-407A/2,107	R-407F/1,825	R-407F/1,825	-	R-407A/2,107	R-407A/2,107	R-407F/1,825	R-407F/1,825	R-407H/1,495.0	R-407A/2,107	R-448A/1,387
	Type 3 - GWP Type 3					R-407F/1,825	R-448A/1,387	R-449A/1,397	R-407F/1,825	R-407H/1,495.0	R-407H/1,495.0	-	R-407F/1,825	R-407F/1,825	R-448A/1,387	R-407H/1,495.0	R-448A/1,387	R-407F/1,825	R-449A/1,397
	Type 4 - GWP Type 4					R-448A/1,387	R-449A/1,397	-	R-407H/1,495.0	R-448A/1,387	R-448A/1,387	-	R-407H/1,495	R-407H/1,495.0	R-449A/1,397	R-448A/1,387	R-449A/1,397.0	R-407H/1,495	-
	Type 5 - GWP Type 5					R-449A/1,397	-		R-448A/1,387	R-449A/1,397.0	R-449A/1,397.0	-	R-448A/1,387	R-448A/1,387	-	R-449A/1,397.0	-	R-448A/1,387	-
	Type 6 - GWP Type 6						-		R-449A/1,397.0	-			R-449A/1,397.0	R-449A/1,397.0	-			R-449A/1,397	-
Power supply	Phase/Frequency/Voltage			Hz/V		1~/50/230			3~/50/400										

(1) Refer to condition: Outside ambient temperature = 32°C, Evaporation temperature = -10°C and Return Gas 20°C (medium temperature application) | (2) Average sound pressure level is measured at 10m in anechoic room

Condensing unit for commercial refrigeration with scroll / reciprocating technology



JEHCCU/SCU-CL1/CL3

Scroll compressor

Reciprocating compressor

JEHCCU-CL1 JEHSCU-CL3

Refrigeration solution for small food retailers

- Designed specifically for small capacity refrigeration applications in small food stores (eg. in bakeries and butchers), cold rooms, bottle coolers and display cabinets
- Compact and lightweight for even the smallest of city centre locations
- All components can be accessed, making maintenance quick and easy
- Ideal for urban applications: sound proofing and low operating sound levels mean the unit is quiet
- The optimised compressor range and increased condenser surface deliver high levels of energy efficiency and reliability is ensured by using high quality components and production processes
- Micro channel heat exchanger technology reduces the amount of refrigerant used in the system, lowering environmental impact

Low Temperature Refrigeration			JEHCCU-CL1/JEHSCU-CL3			0115CL1	0135CL1	0180CL3	0210CL3	0300CL3	0400CL3	0500CL3	0600CL3	0750CL3	0950CL3 EVI
Refrigerating capacity	Medium temperature (1)		R-407A	Nom	kW			-			2.29	2.77	3.31	4.29	4.96
			R-407F	Nom	kW			-			2.38	2.87	-		4.88
			R-448A	Nom	kW		-	0.98	1.36	1.62	2.53	-	3.49	4.81	4.86
			R-449A	Nom	kW		-	0.98	1.36	1.62	2.53		-		4.86
			R-452A	Nom	kW	0.64	0.81	1.13	1.53			-			
Seasonal energy performance ratio SEPR	R-407A	Te -35°C						-			1.67	1.67	1.64	-	1.76
	R-407F	Te -35°C						-			1.65	1.64	-		1.63
	R-448A	Te -35°C					-	1.00	1.00	0.97	1.67	-	1.64	1.64	1.76
	R-449A	Te -35°C					-	1.00	1.00	0.97	1.67	-	1.64	1.64	1.76
	R-452A	Te -35°C				1.05	0.98	1.07	1.05			-			
Annual electricity consumption Q	R-407A	Te -35°C			kWh/a			-			10,212	12,364	15,026	-	20,958
	R-407F	Te -35°C			kWh/a			-			10,730	13,018	-		22,348
	R-448A	Te -35°C			kWh/a			-			11,276	-	15,878	21,856	20,551
	R-449A	Te -35°C			kWh/a			-			11,276	-	15,878	21,856	20,551
Parameters at full load and ambient temp. 25°C	R-448A	Te -35°C	Declared COP (COP2)				-	1.15	1.09	1.16			-		
	R-449A	Te -35°C	Declared COP (COP2)				-	1.15	1.09	1.16			-		
	R-452A	Te -35°C	Declared COP (COP2)			1.20	1.15	1.26	1.25			-			
Parameters at part load and ambient temp. 25°C (Point B)	R-407A	Te -35°C	Declared COP (COPB)					-			1.24	1.25	1.35	-	1.51
	R-407F	Te -35°C	Declared COP (COPB)					-			1.23	1.23	-		1.35
	R-448A	Te -35°C	Declared COP (COPB)					-			1.30	-	1.29	1.43	1.42
	R-449A	Te -35°C	Declared COP (COPB)					-			1.30	-	1.29	1.43	1.42
Parameters at full load and ambient temp. 32°C (Point A)	R-407A	Te -35°C	Rated COP (COPA)					-			0.98	0.97	0.93	1.03	1.26
	R-407F	Te -35°C	Rated COP (COPA)					-			0.95	0.93	-		1.08
	R-448A	Te -35°C	Rated COP (COPA)				-	1.00	1.00	0.97	1.02	-	0.83	1.18	1.24
	R-449A	Te -35°C	Rated COP (COPA)				-	1.00	1.00	0.97	1.02	-	0.83	1.18	1.24
	R-452A	Te -35°C	Rated COP (COPA)			1.05	0.98	1.08	1.05			-			
	R-407A	Te -35°C	Rated cooling capacity (PA)		kW			-			2.29	2.77	3.31	4.29	4.96
	R-407F	Te -35°C	Rated cooling capacity (PA)		kW			-			2.38	2.87	-		4.88
	R-448A	Te -35°C	Rated cooling capacity (PA)		kW		-	0.98	1.36	1.62	2.53	-	3.49	4.81	4.86
	R-449A	Te -35°C	Rated cooling capacity (PA)		kW		-	0.98	1.36	1.62	2.53	-	3.49	4.81	4.86
	R-452A	Te -35°C	Rated cooling capacity (PA)		kW	0.64	0.81	1.13	1.53			-			
	R-407A	Te -35°C	Rated power input (DA)		kW			-			2.33	2.85	3.57	4.17	3.94
	R-407F	Te -35°C	Rated power input (DA)		kW			-			2.51	3.08	-		4.51
	R-448A	Te -35°C	Rated power input (DA)		kW		-	0.98	1.36	1.67	2.48	-	4.19	4.08	3.93
	R-449A	Te -35°C	Rated power input (DA)		kW		-	0.98	1.36	1.67	2.48	-	4.19	4.08	3.93
	R-452A	Te -35°C	Rated power input (DA)		kW	0.61	0.83	1.06	1.47			-			
Parameters at full load and ambient temp. 43°C	R-407A	Te -35°C	Declared COP (COP3)					-			0.67	0.66	0.64	0.73	-
	R-407F	Te -35°C	Declared COP (COP3)					-			0.62	-	-		-
	R-448A	Te -35°C	Declared COP (COP3)					-			0.68	-	0.46	0.81	-
	R-449A	Te -35°C	Declared COP (COP3)					-		0.68	0.68	-	0.46	0.81	-
	R-452A	Te -35°C	Declared COP (COP3)			0.82	0.71					-			
	R-407A	Te -35°C	Cooling capacity (P3)		kW			-			2.01	2.40	2.88	3.79	-
	R-407F	Te -35°C	Cooling capacity (P3)		kW			-			2.04		-		
	R-448A	Te -35°C	Cooling capacity (P3)		kW			-			2.23	-	2.82	4.26	-
	R-449A	Te -35°C	Cooling capacity (P3)		kW			-		1.43	2.23	-	2.82	4.26	-
	R-452A	Te -35°C	Cooling capacity (P3)		kW	0.49	0.57					-			
	R-407A	Te -35°C	Power input (D3)		kW			-			2.98	3.64	4.48	5.20	-
	R-407F	Te -35°C	Power input (D3)		kW			-			3.30		-		
	R-448A	Te -35°C	Power input (D3)		kW			-			3.29	-	6.15	5.28	-
	R-449A	Te -35°C	Power input (D3)		kW			-		2.11	3.29	-	6.15	5.28	-
	R-452A	Te -35°C	Power input (D3)		kW	0.60	0.81					-			
Parameters at part load and ambient temp. 15°C (Point C)	R-407A	Te -35°C	Declared COP (COPC)					-			1.69	1.69	1.68	-	1.74
	R-407F	Te -35°C	Declared COP (COPC)					-			1.68	1.69	-		1.67
	R-448A	Te -35°C	Declared COP (COPC)					-			1.75	-	1.78	1.71	1.75
	R-449A	Te -35°C	Declared COP (COPC)					-			1.75	-	1.78	1.71	1.75
Parameters at part load and ambient temp. 5°C (Point D)	R-407A	Te -35°C	Declared COP (COPD)					-			2.25	2.25	2.1	-	2.13
	R-407F	Te -35°C	Declared COP (COPD)					-			2.22	2.2	-		1.97
	R-448A	Te -35°C	Declared COP (COPD)					-			2.14	-	2.06	1.94	2.18
	R-449A	Te -35°C	Declared COP (COPD)					-			2.14	-	2.06	1.94	2.18
Dimensions	Unit	HeightxWidthxDepth			mm	607x876x420	606x876x430	662x1,101x444			872x1,353x575			1,727x1,348x605	
Weight	Unit				kg	55	61	83	81	78	132	132	133	203	200
Compressor	Type									Reciprocating compressor					
	Piston displacement				m^3/h	4.55	6	9.45	11.83	8	11.8	14.5	17.1	21.4	17.1
Fan	Type									Axial					
Sound pressure level	Nom.				dBA	31	27	38		33	37	39	41		37
Piping connections	Liquid line connection				inch			3/8"					1/2"		
	Suction line connection				inch		1/2"		5/8"	3/4"			7/8"		
Refrigerant	Type/GWP					R-404A/3,921.6	R-404A/3,922	R-448A/1,387	R-448A/1,387	R-404A/3,922	R-404A/3,922	R-404A/3,922	R-404A/3,922	R-404A/3,922	R-404A/3,922
	Type 2 - GWP Type 2					-	R-452A/2,141	R-449A/1,397	R-449A/1,397	R-449A/1,397	R-407A/2,107	R-407A/2,107	R-407A/2,107	R-448A/1,387	R-407A/2,107
	Type 3 - GWP Type 3						-	R-452A/2,141	R-452A/2,141	-	R-407F/1,825	R-407F/1,825	R-449A/1,397	R-449A/1,397	R-407F/1,825
	Type 4 - GWP Type 4							-			R-448A/1,387		-		R-448A/1,387
	Type 5 - GWP Type 5							-			R-449A/1,397		-		R-449A/1,397
Power supply	Phase/Frequency/Voltage				Hz/V	1~/50/230		3~/50/400							

1) Refer to condition: Outside ambient temperature = 32°C, Evaporation temperature = -35°C and Return Gas 20°C (low temperature application) | (2) Average sound pressure level is measured at 10m in anechoic room |
* Condition with high discharge temperature

Condensing units with inverter driven compressor

High reliability, low cost and easy installation

- Power supply 380-400/3N~/50
- Pressure controlled fan speed controller
- Crankcase heater
- Oil separator
- Power control box with magnetothermic switches + thermal protection + electronic controller
- Inverter
- Oil separator + condenser fans speed regulator with pressure probe
- Liquid receiver with safety valve + liquid line
- HP + LP pressure switches, Crankcase heater
- Antivibration eliminators on suction and discharge line
- Condenser with 6 poles axial fans
- Condensing unit under nitrogen pressure



CU2 CU3

- Muffler on discharge line
- Residential Soundproofing
- Electrical box: power control box with thermal protection and capacity regulation
- Soundproofing: double noise insulation (residential)

					GCI	GCI2010B3B1D4R	GCI2020B3B1D4R	GCI2022B3B1D4R	GCI2030B3B1D4R	GCI2040B3B1D4R	GCI3050B3B1D4R	GCI3060B3B1D4R	GCI4120B3B1D4R
Frame type								2				3	4
Power supply					V/ph~/Hz				380-400/3N~/50				
Max absorbed current (70Hz)					A	2.7	3.6	4.1	5.6	7.2	8.4	10.3	13.3
Max absorbed power (70Hz)					kW	1.3	1.8	2.1	3.0	4.0	4.7	5.8	7.8
Working temperature					°C				+5 ÷ -20				
Compressor	Type								Semihermetic				
	Brand								Bitzer				
	Model					2HES-1Y	2FES-2Y	2EES-2Y	2CES-3Y	4EES-4Y	4DES-5Y	4CES-6Y	4PES-12Y
	Refrigerant								R134a				
Condenser	Fin pitch				mm				2.1				
	Fans nr.							1				2	
	Fans ø				mm				450				
	Model				ph/p				1ph-6P				
	Air flow				m³/h		2,943			2,701		5,850	5,366
	Noise pressure level at 10 m (50Hz)				dB(A)	33	34	35	35	39	40	41	42
Connections	Suction				Ø mm	16	18	22	22	28	28	35	35
	Liquid				Ø mm			10				12	
	Standard liquid receiver				lt			5.7			10		21
	PED category							1				2	
	Unit net weight				kg	160	170	193	195	210	225	230	300
Cooling capacity	Min./Max.	Tev 5°C	Tamb 20°C		kW	2.63/6.01	3.81/8.43	4.65/10.19	6.6/14.04	8.66/17.46	10.65/22.27	12.72/25.72	18.23/34.95
			Tamb 25°C		kW	2.49/5.68	3.56/7.89	4.37/9.59	6.22/13.23	8.14/16.4	10/20.91	11.95/24.16	17.02/32.63
			Tamb 30°C		kW	2.34/5.36	3.32/7.35	4.1/8.99	5.84/12.42	7.62/15.35	9.35/19.56	11.18/22.61	15.83/30.35
			Tamb 35°C		kW	2.2/5.04	3.08/6.82	3.83/8.4	5.47/11.63	7.1/14.31	8.71/18.22	10.42/21.07	14.66/28.11
			Tamb 40°C		kW	2.07/4.72	2.84/6.28	3.56/7.82	5.09/10.84	6.59/13.28	8.07/16.89	9.66/19.54	13.52/25.91
			Tamb 45°C		kW	1.93/4.41	2.6/5.76	3.3/7.24	4.72/10.05	6.08/12.26	7.44/15.57	8.91/18.02	12.4/23.77
		Tev 0°C	Tamb 20°C		kW	2.18/4.99	3.18/7.04	3.9/8.55	5.59/11.89	7.44/15	9/18.84	10.86/21.97	15.72/30.14
			Tamb 25°C		kW	2.06/4.71	2.97/6.58	3.66/8.03	5.26/11.19	6.98/14.08	8.45/17.69	10.2/20.63	14.66/28.11
			Tamb 30°C		kW	1.94/4.44	2.76/6.12	3.43/7.52	4.94/10.51	6.53/13.17	7.9/16.54	9.55/19.31	13.62/26.11
			Tamb 35°C		kW	1.82/4.16	2.56/5.67	3.2/7.02	4.62/9.83	6.09/12.27	7.36/15.39	8.9/17.99	12.59/24.14
			Tamb 40°C		kW	1.7/3.89	2.36/5.22	2.97/6.52	4.3/9.16	5.65/11.38	6.81/14.25	8.25/16.68	11.58/22.21
			Tamb 45°C		kW	1.58/3.62	2.16/4.78	2.75/6.03	3.99/8.49	5.21/10.5	6.27/13.13	7.6/15.37	10.6/20.33
		Tev -5°C	Tamb 20°C		kW	1.79/4.09	2.61/5.79	3.22/7.06	4.66/9.92	6.3/12.69	7.5/15.69	9.14/18.47	13.32/25.55
			Tamb 25°C		kW	1.69/3.86	2.44/5.4	3.02/6.62	4.38/9.33	5.91/11.91	7.04/14.73	8.58/17.35	12.41/23.8
			Tamb 30°C		kW	1.59/3.62	2.27/5.02	2.82/6.19	4.11/8.75	5.52/11.14	6.58/13.76	8.03/16.23	11.51/22.06
			Tamb 35°C		kW	1.48/3.39	2.1/4.64	2.63/5.77	3.85/8.18	5.14/10.37	6.12/12.8	7.48/15.12	10.61/20.35
			Tamb 40°C		kW	1.38/3.16	1.93/4.27	2.44/5.35	3.58/7.62	4.77/9.61	5.66/11.85	6.93/14.02	9.74/18.67
			Tamb 45°C		kW	1.28/2.93	1.76/3.91	2.25/4.94	3.32/7.06	4.39/8.86	5.21/10.9	6.39/12.92	8.88/17.03
		Tev -10°C	Tamb 20°C		kW	1.45/3.31	2.11/4.68	2.62/5.74	3.82/8.13	5.25/10.57	6.14/12.84	7.55/15.26	11.07/21.22
			Tamb 25°C		kW	1.36/3.11	1.97/4.36	2.45/5.37	3.59/7.65	4.92/9.91	5.76/12.05	7.09/14.34	10.29/19.74
			Tamb 30°C		kW	1.27/2.91	1.83/4.05	2.29/5.01	3.37/7.17	4.6/9.26	5.38/11.26	6.64/13.42	9.52/18.25
			Tamb 35°C		kW	1.19/2.72	1.69/3.74	2.13/4.66	3.15/6.7	4.28/8.62	5/10.46	6.18/12.5	8.75/16.78
			Tamb 40°C		kW	1.1/2.52	1.55/3.43	1.97/4.32	2.93/6.23	3.96/7.98	4.62/9.67	5.73/11.58	8/15.33
			Tamb 45°C		kW	1.02/2.33	1.42/3.14	1.81/3.98	2.71/5.77	3.64/7.34	4.25/8.88	5.28/10.67	7.26/13.91
		Tev -20°C	Tamb 20°C		kW	1.15/2.63	1.68/3.71	2.08/4.57	3.08/6.55	4.29/8.66	4.93/10.32	6.12/12.38	8.99/17.24
			Tamb 25°C		kW	1.08/2.47	1.56/3.45	1.95/4.27	2.89/6.14	4.02/8.11	4.63/9.68	5.75/11.63	8.34/15.99
			Tamb 30°C		kW	1.01/2.3	1.44/3.2	1.81/3.98	2.7/5.75	3.75/7.57	4.32/9.03	5.38/10.88	7.68/14.73
			Tamb 35°C		kW	0.93/2.13	1.33/2.95	1.68/3.69	2.52/5.37	3.49/7.03	4.01/8.38	5.01/10.13	7.03/13.48
			Tamb 40°C		kW	0.86/1.97	1.22/2.7	1.55/3.41	2.34/4.99	3.22/6.49	3.7/7.74	4.64/9.38	6.38/12.23
			Tamb 45°C		kW	0.79/1.81	1.11/2.46	1.43/3.13	2.17/4.61	2.96/5.96	3.39/7.09	4.27/8.63	5.74/11
		Tev -15°C	Tamb 20°C		kW	0.9/2.06	1.3/2.89	1.63/3.57	2.43/5.16	3.45/6.96	3.89/8.13	4.87/9.85	7.12/13.66
			Tamb 25°C		kW	0.84/1.92	1.21/2.67	1.51/3.32	2.27/4.83	3.23/6.5	3.64/7.62	4.58/9.25	6.58/12.62
			Tamb 30°C		kW	0.78/1.78	1.11/2.47	1.4/3.08	2.12/4.51	3/6.05	3.39/7.1	4.28/8.65	6.02/11.55
			Tamb 35°C		kW	0.72/1.64	1.02/2.26	1.3/2.84	1.98/4.2	2.78/5.61	3.14/6.57	3.98/8.04	5.46/10.47
			Tamb 40°C		kW	0.66/1.5	0.93/2.07	1.19/2.61	1.83/3.9	2.56/5.16	2.89/6.04	3.67/7.42	4.9/9.39
			Tamb 45°C		kW	0.6/1.36	0.85/1.88	1.09/2.38	1.69/3.59	2.34/4.72	2.63/5.51	3.36/6.8	4.34/8.32

Condensing units with inverter driven compressor

High reliability, low cost and easy installation

- Power supply 380-400/3N~/50
- Pressure controlled fan speed controller
- Crankcase heater
- Oil separator
- Power control box with magnetothermic switches + thermal protection + electronic controller
- Inverter
- Oil separator + condenser fans speed regulator with pressure probe
- Liquid receiver with safety valve + liquid line
- HP + LP pressure switches, Crankcase heater
- Antivibration eliminators on suction and discharge line
- Condenser with 6 poles axial fans
- Condensing unit under nitrogen pressure



CU2 CU3

- Muffler on discharge line
- Residential Soundproofing
- Electrical box: power control box with thermal protection and capacity regulation
- Soundproofing: double noise insulation (residential)

					HCI	HCI2015B2B1D4R	HCI2018B2B1D4R	HCI2020B2B1D4R	HCI2030B2B1D4R	HCI2050B2B1D4R	HCI3060B2B1D4R	HCI4120B2B1D4R	HCI4140B2B1D4R
Frame type						2					3	4	
Power supply					V/ph~/Hz	380-400/3N~/50							
Max absorbed current (70Hz)					A	3.0	3.4	4.3	6.0	7.4	10.1	11.8	14.5
Max absorbed power (70Hz)					kW	1.4	1.7	2.2	3.1	4.2	5.6	6.8	8.5
Working temperature					°C	-15 ÷ -40							
Compressor	Type					Semihermetic							
	Brand					Bitzer							
	Model					2GES-2Y	2FES-2Y	2DES-2Y	4FES-3Y	4DES-5Y	4CES-6Y	4PES-12Y	4NES-14Y
	Refrigerant					R449A							
Condenser	Fin pitch				mm	2.1							
	Fans nr.					1					2		
	Fans ø				mm	450							
	Model				ph/p	1ph-6P							
	Air flow				m³/h	2,943			2,701		5,850	5,366	
	Noise pressure level at 10 m (50Hz)				dB(A)	34	35	36	37	40	42	45	48
Connections	Suction				Ø mm	16		22	28			35	42
	Liquid				Ø mm	10				12			
	Standard liquid receiver				lt	2.3		5.7			10	21	21
	PED category					1						2	
	Unit net weight				kg	170		193	208	215	242	330	335
Cooling capacity	Min./Max.	Tev 5°C	Tamb 20°C		kW	2.27/5.1	2.82/6.22	3.88/8.38	5.18/10.71	7.14/14.06	9.3/19.06	12.68/23.34	15.36/28.01
			Tamb 25°C		kW	2.1/4.73	2.61/5.77	3.6/7.77	4.8/9.92	6.6/13	8.63/17.68	11.65/21.44	14.12/25.76
			Tamb 30°C		kW	1.93/4.34	2.4/5.3	3.32/7.17	4.42/9.15	6.08/11.96	7.97/16.33	10.63/19.57	12.9/23.53
			Tamb 35°C		kW	1.76/3.95	2.18/4.82	3.05/6.58	4.06/8.4	5.57/10.96	7.33/15.02	9.63/17.73	11.7/21.33
			Tamb 40°C		kW	1.58/3.56	1.96/4.33	2.78/6	3.71/7.68	5.07/9.98	6.71/13.75	8.65/15.93	10.5/19.16
			Tamb 45°C		kW	1.41/3.16	1.74/3.84	2.51/5.43	3.38/6.98	4.59/9.04	6.11/12.52	7.7/14.17	9.33/17.01
		Tev 0°C	Tamb 20°C		kW	1.82/4.09	2.27/5.02	3.19/6.89	4.31/8.91	6/11.81	7.77/15.92	10.69/19.69	13.02/23.75
			Tamb 25°C		kW	1.68/3.79	2.1/4.64	2.94/6.36	3.98/8.22	5.53/10.88	7.19/14.73	9.79/18.02	11.95/21.79
			Tamb 30°C		kW	1.54/3.47	1.92/4.25	2.71/5.85	3.66/7.56	5.07/9.98	6.62/13.56	8.9/16.38	10.89/19.86
			Tamb 35°C		kW	1.4/3.15	1.74/3.85	2.47/5.34	3.34/6.91	4.63/9.11	6.07/12.43	8.03/14.78	9.84/17.95
			Tamb 40°C		kW	1.25/2.82	1.55/3.43	2.24/4.85	3.04/6.29	4.2/8.27	5.53/11.34	7.18/13.21	8.81/16.06
			Tamb 45°C		kW	1.1/2.48	1.36/3.01	2.02/4.36	2.75/5.69	3.79/7.46	5.02/10.29	6.34/11.68	7.79/14.21
		Tev -5°C	Tamb 20°C		kW	1.43/3.21	1.79/3.96	2.57/5.55	3.52/7.27	4.94/9.73	6.38/13.07	8.83/16.25	10.82/19.73
			Tamb 25°C		kW	1.32/2.97	1.65/3.65	2.37/5.11	3.24/6.69	4.54/8.93	5.88/12.05	8.04/14.81	9.9/18.06
			Tamb 30°C		kW	1.21/2.71	1.51/3.33	2.16/4.68	2.96/6.12	4.14/8.16	5.4/11.05	7.28/13.4	9/16.41
			Tamb 35°C		kW	1.09/2.45	1.36/3	1.97/4.25	2.69/5.57	3.77/7.41	4.93/10.09	6.53/12.02	8.1/14.77
			Tamb 40°C		kW	0.97/2.17	1.2/2.65	1.77/3.83	2.44/5.04	3.4/6.69	4.48/9.17	5.8/10.68	7.22/13.16
			Tamb 45°C		kW	0.84/1.89	1.04/2.29	1.58/3.42	2.19/4.53	3.05/6	4.04/8.28	5.09/9.37	6.35/11.58
		Tev -10°C	Tamb 20°C		kW	1.09/2.45	1.38/3.05	2.02/4.37	2.81/5.81	3.97/7.82	5.12/10.49	7.1/13.06	8.77/16
			Tamb 25°C		kW	1.01/2.27	1.27/2.8	1.85/4.01	2.57/5.32	3.63/7.15	4.7/9.63	6.43/11.84	8/14.59
			Tamb 30°C		kW	0.92/2.06	1.15/2.54	1.69/3.65	2.34/4.84	3.3/6.5	4.3/8.8	5.78/10.64	7.23/13.2
			Tamb 35°C		kW	0.82/1.84	1.03/2.27	1.52/3.29	2.12/4.38	2.98/5.86	3.9/8	5.14/9.47	6.48/11.82
			Tamb 40°C		kW	0.72/1.61	0.9/1.98	1.36/2.93	1.9/3.94	2.67/5.26	3.53/7.23	4.53/8.33	5.74/10.46
			Tamb 45°C		kW	0.61/1.37	0.76/1.67	1.2/2.59	1.7/3.51	2.38/4.68	3.16/6.48	3.92/7.22	5.01/9.13
		Tev -20°C	Tamb 20°C		kW	0.8/1.81	1.02/2.26	1.55/3.34	2.18/4.51	3.1/6.1	4/8.19	5.51/10.15	6.9/12.59
			Tamb 25°C		kW	0.74/1.66	0.94/2.07	1.41/3.04	1.98/4.1	2.81/5.54	3.65/7.48	4.95/9.12	6.25/11.41
			Tamb 30°C		kW	0.67/1.5	0.84/1.86	1.27/2.74	1.79/3.7	2.53/4.99	3.31/6.79	4.41/8.11	5.61/10.24
			Tamb 35°C		kW	0.59/1.32	0.74/1.64	1.13/2.45	1.61/3.32	2.27/4.46	2.99/6.13	3.87/7.13	4.98/9.09
			Tamb 40°C		kW	0.5/1.12	0.63/1.4	1/2.15	1.43/2.96	2.01/3.96	2.68/5.49	3.35/6.17	4.36/7.96
			Tamb 45°C		kW	0.41/0.92	0.51/1.13	0.86/1.86	1.26/2.61	1.77/3.48	2.38/4.88	2.85/5.25	3.75/6.85
		Tev -15°C	Tamb 20°C		kW	0.56/1.26	0.72/1.58	1.13/2.45	1.63/3.36	2.32/4.56	3/6.15	4.09/7.53	5.22/9.51
			Tamb 25°C		kW	0.51/1.14	0.65/1.44	1.02/2.2	1.46/3.03	2.08/4.09	2.72/5.57	3.62/6.67	4.68/8.53
			Tamb 30°C		kW	0.45/1.01	0.58/1.28	0.91/1.96	1.31/2.7	1.85/3.64	2.44/5.01	3.16/5.82	4.14/7.55
			Tamb 35°C		kW	0.38/0.86	0.5/1.1	0.79/1.71	1.16/2.39	1.63/3.2	2.18/4.46	2.72/5	3.61/6.59
			Tamb 40°C		kW	0.31/0.7	0.4/0.89	0.68/1.47	1.01/2.09	1.42/2.79	1.92/3.94	2.28/4.2	3.1/5.65
			Tamb 45°C		kW	0.23/0.52	0.3/0.66	0.57/1.23	0.87/1.8	1.22/2.39	1.68/3.45	1.86/3.43	2.59/4.73

Hubbard Condensing units with CO_2 refrigerant

- Transcritical CO_2 Commercial Condensing Units for food retailers
- Wide range of capacities: 2 to 10HP MT
- Designed for quiet and energy-saving operation
- Inverter technology reduces energy consumption by up to 30%
- EC fans work efficiently and quietly
- Easy and flexible installation
- Designed as plug & play solutions



F-Gas Free

Protective Case

Plug&Play

Switchboard

Proportional Modulation

Electronic Control

GCU-PXB1

Medium Temperature				GCU 2020 PXB1	GCU 2040 PXB1	GCU 4070PXB1
Capacity *			HP	2	4	10
	Min.		kW	1.80	3.25	6.25
	Max.			3.39	6.50	12.54
Power & Energy EcoDesign (2009/125/EC)			Ph./Hz./VAC	3PH/50Hz/400VAC		
	FLC		A	8.64	16.04	18.25
	COP/SEPR			1.87/3.57 SEPR	3.24 SEPR	2.92 SEPR
			kWh/a	5,840	12,307	26,393
Compressor	Compression			2 Stage (Intercooler)		
	Type			Panasonic Hermetic Rotary		
	Cap Ctrl.			ABB Frequency Inverter		
	RPM			2,200 ~ 4,200	2,200 ~ 4,800	1,800 ~ 3,600
	Qty.			1		
	Oil			DAPHNE PZ68S		
			l	0.7	1.15	1.80
Gas cooler fans	Type			Ebmpapst EC		
	Qty.			1		2
			m^3/s	1.05		2.10
	Ø (dia.)		mm	450		
Sound pressure	(10 m)		dB(A)	40.0	45.0	48.0
Refrigerant	Type/GWP			R744/1		
Reciever volume			l	12.50		20.00
Standard pipe run			m	25	35	40
Liquid connections		Inch/Type		3/8"/K65		1/2"/K65
Suction connections		Inch/Type		3/8"/K65	1/2"/K65	
Oil seperator	Standard			no	yes/Turboil	
Oil level control	Standard			N/A	Cappillary	
Dimensions	Unit	LxDxH	mm	1,452x574x799		1,684x773x1,438
Surface area			m^2	0.83		1.29
Weight			kg	151	155	285
Colour		RAL		Light Grey RAL 7035 (Powder Coated & Baked)		
Controller	Type			CAREL pRack pR300 Electronic Controller		
High side PRV			Bar	N/A	120	
Intermetdiate PRV			Bar	90		80
Compressor HP Switch		Standard		Yes x1		
PED 2014/68/EU	Category			Cat. III		

* Nominal Tevap. -10°C | Tamb +32°C | 10K Superheat

Hubbard Condensing units with CO_2 refrigerant

- Transcritical CO_2 Commercial Condensing Units for food retailers
- Wide range of capacities: 4 to 10HP LT
- Designed for quiet and energy-saving operation
- Inverter technology reduces energy consumption by up to 30%
- EC fans work efficiently and quietly
- Easy and flexible installation
- Designed as plug & play solutions



F-Gas Free

Protective Case

Plug&Play

Switchboard

Proportional Modulation

Electronic Control

HCU-PXB1

Low Temperature				HCU2040PXB1	HCU4070PXB1
Capacity *			HP	4HP	10HP
	Min.		kW	1.7	3.3
	Max.			3.03	6.56
Power & Energy EcoDesign (2009/125/EC)			Ph./Hz./VAC	3PH/50Hz/400VAC	
	FLC		A	16.04	18.25
	COP/SEPR			1.5	1.55
			kWh/a	15,046	31,478
Compressor	Compression			2 Stage (Intercooler)	
	Type			Panasonic Hermetic Rotary	
	Cap Ctrl.			ABB Frequency Inverter	
	RPM			2,700 to 4,800	1,800 to 3,600
	Qty.			1	
	Oil			Daphne PZ68S	
			l	1.15	2.3
Gas cooler fans	Type			Ebmpapst EC	
	Qty.			1	
			m^3/s	1.05	2.1
	Ø (dia.)		mm	450	
Sound pressure	(10 m)		dB(A)	45	48
Refrigerant	Type/GWP			R744/1	
Reciever volume			l	12.5	20
Standard pipe run			m	35	40
Liquid connections		Inch/Type		3/8" (K65)	1/2" (K65)
Suction connections		Inch/Type		1/2" (K65)	
Oil seperator	Standard			Yes/Turboil	
Oil level control	Standard			Capillary	
Dimensions	Unit	LxDxH	mm	1,452x574x799	1,684x773x1,438
Surface area			m^2	0.83	1.29
Weight			kg	161	300
Colour		RAL		Light Grey RAL7035 (Powder Coated & Baked)	
Controller	Type			CAREL pRack pR300 Electronic Controller & Ultracap	
High side PRV			Bar	120	
Intermetdiate PRV			Bar	90	80
Compressor HP Switch		Standard		Yes x1	
PED 2014/68/EU	Category			Cat. III	

* Nominal Tevap -35°C | Tamb +32°C | 10K Superheat

CO_2 ZEAS condensing units

the smart choice for medium and low temperature refrigeration featuring proven ZEAS technology

- Perfect solution for all cooling and freezing applications with variable load conditions and high energy efficiency requirements. Particularly for use in supermarkets, cold storage, blast coolers and freezers, process etc.
- BLDC inverter swing compressor with onboard 2 stage technology with intercooler
- Reduced CO_2 emissions thanks to the use of natural refrigerant (CO_2) and low energy consumption
- Factory tested and pre-programmed for quick and easy installation and commissioning
- Increased installation flexibility thanks to limited dimensions
- Low sound level including "night mode" operation

High energy savings potential

- ☑ Highly efficient operation
- ☑ Cuts energy consumption compared to traditional refrigeration equipment
- ☑ Advanced Daikin BLCD inverter swing compressor technology precisely adapts to the system's needs, protected by 4 patents
- ☑ Eco-design compliant

Intelligent control

- ☑ Can be connected to a third party monitoring system
- ☑ Refrigeration unit can be controlled remotely through a powerful interface
- ☑ Remote control of target evaporation temperature, reset errors and other functions

Comfort

- ☑ Quiet operation, unobtrusive for customers and neighbours
  - High grade sound insulation on compressors
  - Condenser fans designed to limit noise
  - Two low noise operation settings including night mode
- ☑ Wide temperature range (-40°C to +5°C) allows multiple cabinet, freezer and cold room combinations
- ☑ Unified model for freezing, cooling and/or refrigerating applications

Reliable operation

- ☑ CO_2 ZEAS condensing units are rigorously tested on the assembly line
- ☑ Proven inverter swing technology
- ☑ Anti-corrosion treatment on the housing ensures long life even in extreme conditions
- ☑ Daikin condensing units are at the heart of refrigeration applications such as food retail, food processing, logistic center, pharmaceutical and more

Smart refrigeration

with additional advantages

Small footprint

- Extremely compact design
- Best surface to capacity ratio on the market
- Easy to install in the smallest spaces
- Indoor installation possible
- Minimal space required between units in multi-unit installations

Fully packaged

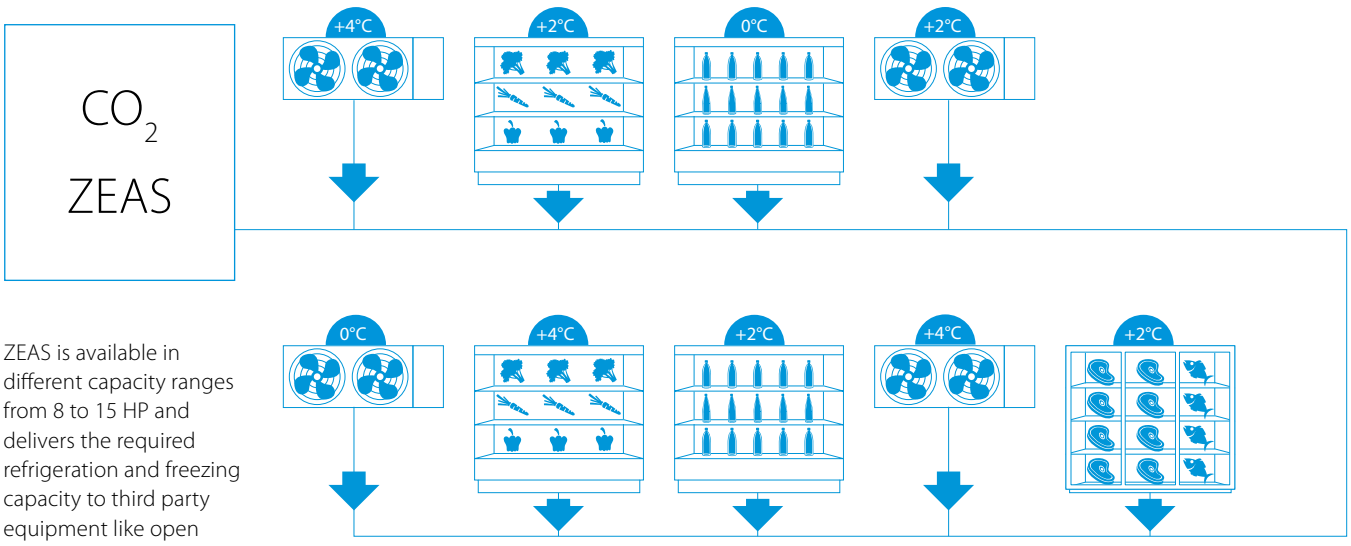
- Component selection risk reduced to zero
- Leak testing and run test in factory
- Built-in controls ensure optimum operation and unit safety

Wide temperature range

- Precise evaporating temperatures from -40°C to +5°C depending on the application

Comprehensive support

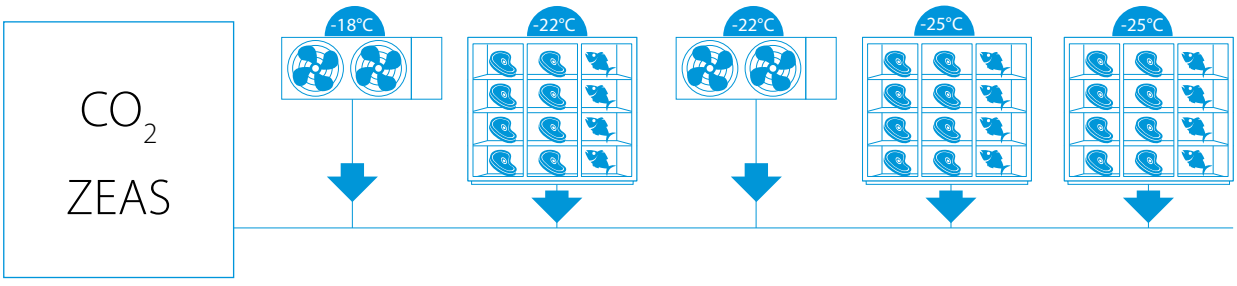
- Daikin provides comprehensive service and maintenance tools



ZEAS is available in different capacity ranges from 8 to 15 HP and delivers the required refrigeration and freezing capacity to third party equipment like open showcases, glass door freezers and evaporators.

Operating range
Ambient temperatures: -20°C to +43 °C
Evaporating temperatures: -40°C to +5°C

* Te= -35°C, Tc = -10°C, 10 K SH, Tamb = 32°C



INVERTER

CO_2 ZEAS refrigeration condensing unit

Refrigeration solution for various application featuring award winning swing technology with heat recovery to water possibility

- Condensing units ideal for commercial and industrial applications with variable cooling capacity
- Compressor controlled by inverter
- Daikin swing compressor
- Suitable for outdoor use in different climatic conditions
- Wide range of capacities



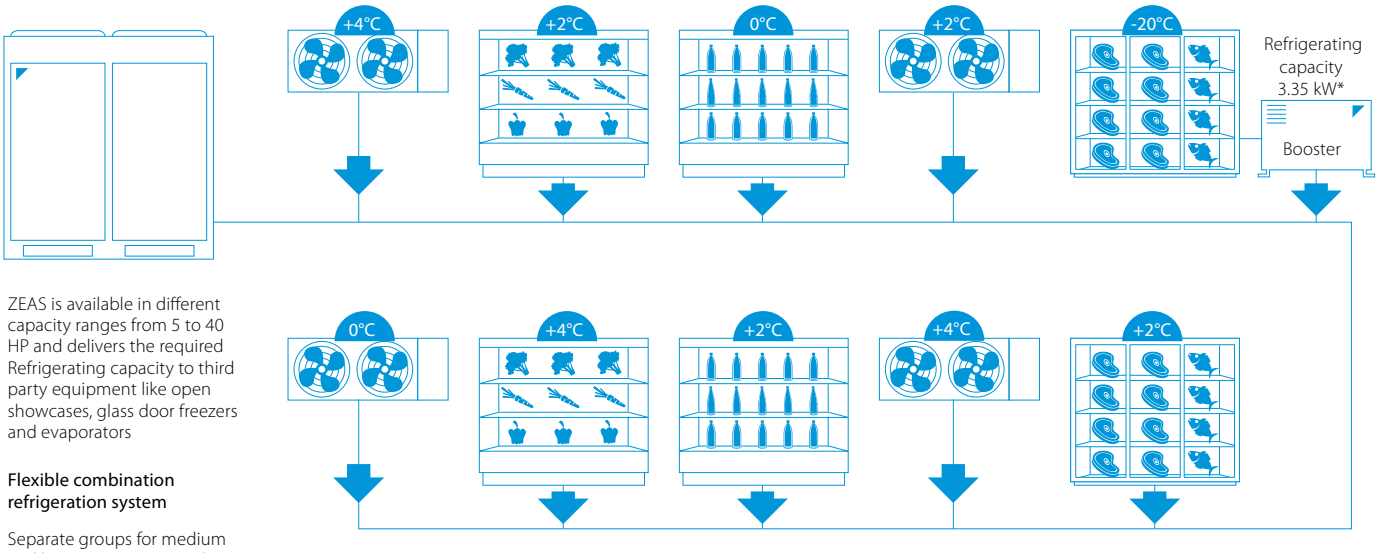
CO_2 ZEAS 8 -10-12 HP

LREN-A

Low Temperature Refrigeration, Medium Temperature Refrigeration, Heat Recovery				LREN	8AY1	10AY1	12AY1	12AY1+LRNUN5AY1
Refrigerating capacity	Low temperature	Nom.		kW	11.2 (1)	13.5 (1)	15.5 (1)	17.3 (1)
	Medium temperature	Nom.		kW	19.8 (2)	23.1 (2)	26.3 (2)	31.7(2)
Power input	Low temperature	Nom.		kW	11.6 (1)	14.1 (1)	16.9 (1)	18.6 (1)
	Medium temperature	Nom.		kW	10.7 (2)	13.2 (2)	15.5 (2)	20.1 (2)
COP	Medium temperature	Nom.			1.86 (2)	1.75 (2)	1.69 (2)	1.58 (2)
Dimensions	Unit	HeightxWidthxDepth		mm	1,680x1,930x765			-
Weight	Unit			kg	547			-
Heat exchanger	Type				Cross fin coil (waffle louver fins and Hi-X tubes)			-
Compressor	Type				Hermetically sealed swing compressor			-
	Output			W	4,600.0			-
	Piston displacement			m^3/h	6.16			-
	Starting method				Direct on line (inverter driven)			-
Fan	Type				Propeller fan			-
	Quantity				3			-
	Air flow rate	Cooling	Nom.	m^3/min	285 (3)		315 (3)	-
Fan motor	Output			W	750			-
	Drive				Direct drive			-
Sound pressure level	Nom.			dBA	61.0 (5)	62.0 (5)	64.0 (5)	65.0 (4)
	Low noise mode 1			dBA	59.0 (4)	59.0 (4)	61.0 (4)	
	Low noise mode 2			dBA	53.0 (4)	54.0 (4)	56.0 (4)	
Piping connections	Liquid	OD		mm	15.9			
	Gas	OD		mm	22.2			
Refrigerant	Type/GWP				R744 (CO_2)/1.0			
	Charge			kg	0.00 (4)			
	Control				Electronic expansion valve			
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415			

(1)Rated conditions: saturation temperature equivalent to suction pressure: -35°C (LT),outdoor temp. 32°C, Suction SH 10K | (2)Rated conditions: saturation temperature equivalent to suction pressure: -10°C (MT), outdoor temp. 32°C, Suction SH 10K | (3)Outdoor Unit Total Airflow | (4)The unit is not pre-charged. A minimal rest charge is present related to factory quality inspection | (5)Sound pressure data: measured at 1m in front of unit, at 1.5m height. Nominal operation condition – Medium evaporation temperature (MT) | Minimum load of each individual refrigeration indoor unit: 3 KW (for Medium Temperature Operation) | Minimum load of each individual refrigeration indoor unit: 2 KW (for Low Temperature Operation). | Every compressor equipped with 1 accumulator of 0.909 liters. | Compressor 1 | Compressor 2 | Compressor 3 | Factory charge of unit | For MT (Medium Temperature) Operation | For LT (Low Temperature) Operation | Compressor 1: 2Y190CPCY1P#C; Compressor 2: 2Y190CPCY1P#C; Compressor 3: 2Y190CPDY1P#C | Only K65 (or equivalent) with D.P. 90 bar is allowed to use for refrigeration piping. | For all the LRNUN5A7Y1 specifications, please refer to the related MDM drawing

ZEAS, the smart choice for medium and low temperature refrigeration



ZEAS is available in different capacity ranges from 5 to 40 HP and delivers the required Refrigerating capacity to third party equipment like open showcases, glass door freezers and evaporators

Flexible combination refrigeration system

Separate groups for medium and low temperature cooling, each with multiple cabinets and different temperatures. This flexibility and energy savings of up to 50% are only possible with ZEAS-systems.

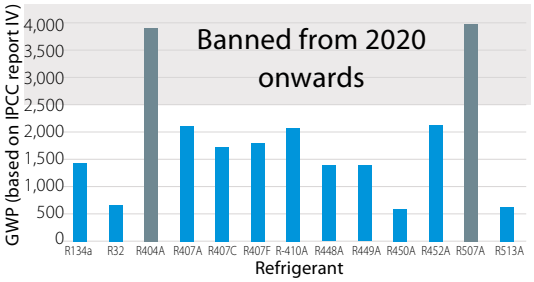
Operating range
Ambient temperatures: -20°C to +43 °C
Evaporating temperatures: -45°C to +10°C

* Te= -35°C, Tc = -10°C, 10 K SH, Tamb = 32°C
* Only Zeas. Not applicable for Mini-Zeas and Multi-Zeas

Why R-410A?

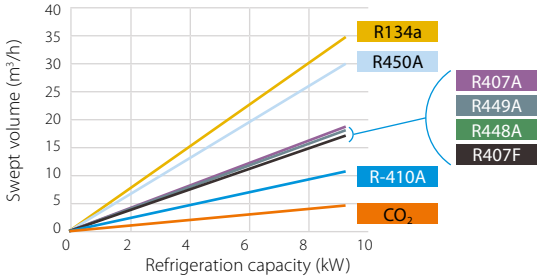
R-410A is a lower GWP refrigerant (less than 2,500) than R404A and is fully F-gas compliant. It's future proof: it can be used even after 2030!

Use of refrigerant in refrigeration system with a refrigeration lower than 40 kW



Contributes to reducing installation cost and refrigerant charge
R-410A is a high pressure refrigerant which for the same swept volume can deliver much more refrigeration capacity than standard mid pressure and low pressure refrigerants.

Delivered capacity per used refrigerant

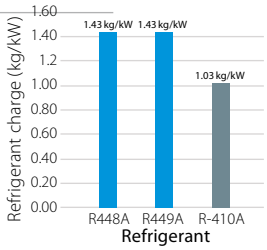


This means that for the same delivered refrigeration capacity we can use smaller components, thus reducing the installation cost and the amount of refrigerant charge in the system!

For a capacity of 8.4 kW (Te = -10°C / Tamb = 32°C)

Refrigerant	Suction piping diameter
R134a	1 1/8"
R407A	7/8"
R407F	7/8"
R448A	7/8"
R449A	7/8"
R450A	1 1/4"
R-410A	3/4"
CO_2	1/2"

Refrigerant charge per used refrigerant (Te = -10°C / Tamb = 32°C)



R-410A is also:
- an easy to handle, common used refrigerant in the air conditioning world, therefore it is easy to find an installer which can work with this refrigerant, compared to CO_2, Ammonia and Propane.
- an A1 refrigerant, therefore no special safety measurements are required.

ZEAS condensing unit for commercial refrigeration with scroll technology

Refrigeration solution for medium to large capacity applications featuring proven VRV technology

- One model for all applications from -45°C to 10°C evaporating temperature
- Perfect solution for all cooling and freezing applications with variable load conditions and high energy efficiency requirements. In particular used in supermarkets, cold storage, blast coolers and freezers etc.
- DC inverter scroll compressor with economiser function results in high energy efficiency and reliable performance
- Reduced CO_2 emissions thanks to the use of R-410A refrigerant and low energy consumption
- Factory tested and pre-programmed for quick and easy installation and commissioning
- VRV (Variable Refrigerant Volume) technology for flexible application range



LREQ-BY1(R)

- Increased installation flexibility thanks to limited dimensions
- Low sound level including „night mode" operation
- For small freezing capacity, single ZEAS units can be connected to a booster unit
- Dedicated unit to allow multi combination of 2 x 15 HP or 2 x 20 HP resulting in less pipework or installation time

LREQ-BY1

				LREQ-BY1	5	6	8	10	12	15	20
Refrigerating capacity	Low temperature	Nom.		kW	5.51 (1)	6.51 (1)	8.33 (1)	10.0 (1)	10.7 (1)	13.9 (1)	15.4 (1)
	Medium temperature	Nom.		kW	12.5 (2)	15.2 (2)	19.8 (2)	23.8 (2)	26.5 (2)	33.9 (2)	37.9 (2)
Power input	Low temperature	Nom.		kW	4.65 (1)	5.88 (1)	7.72 (1)	9.27 (1)	9.89 (1)	12.8 (1)	14.1 (1)
	Medium temperature	Nom.		kW	5.10 (2)	6.56 (2)	8.76 (2)	10.6 (2)	12.0 (2)	15.2 (2)	17.0 (2)
Seasonal energy performance ratio SEPR	R-410A	Te -10°C			3.86	3.79	3.64	3.42	3.51	3.38	3.23
		Te -35°C			1.80	1.77	1.84	1.88	1.80	1.70	1.70
Annual electricity consumption Q	R-410A	Te -10°C		kWh/a	19,907	24,681	33,483	42,794	46,377	61,683	72,030
		Te -35°C		kWh/a	22,805	27,453	33,817	39,747	44,363	61,090	67,325
Parameters at full load and ambient temp. 32°C (Point A)	R-410A	Te -10°C	Rated COP (COPA)		2.45	2.32	2.26	2.25	2.21	2.23	
		Te -35°C	Rated COP (COPA)		1.18	1.11		1.08		1.09	
Parameters at full load and ambient temp. 43°C	R-410A	Te -10°C	Declared COP (COP3)		1.54	1.57	1.40	1.46	1.47	1.46	1.51
		Te -35°C	Declared COP (COP3)		0.76	0.74	0.68	0.70	0.71		0.74
Dimensions	Unit	Height		mm	1,680						
		Width		mm	635		930			1,240	
		Depth		mm	765						
Weight	Unit			kg	166		242			331	337
Heat exchanger	Type				Cross fin coil						
Compressor	Type				Hermetically sealed scroll compressor						
	Output			W	2,600	3,200	2,100	3,000	3,400	2,600	3,400
	Piston displacement			m^3/h	11.18	13.85	19.68	23.36	25.27	32.24	35.8
	Speed			rpm	5,280	6,540	4,320	6,060	6,960	5,280	6,960
	Starting method				Direct on line (inverter driven)						
Compressor 2	Output			W	-		3,600				
	Speed			rpm	-		2,900				
Compressor 3	Output			W	-					3,600	
	Speed			rpm	-					2,900	
Fan	Type				Propeller fan						
	Quantity				1					2	
	Air flow rate	Cooling	Nom.	m^3/min	95	102	171	179	191	230	240
Fan motor	Output			W	350		750			350	750
	Drive				Direct drive						
Fan motor 2	Output			W	-					350	750
Sound pressure level	Nom.			dBA	55.0 (3)	56.0 (3)	57.0 (3)	59.0 (3)	61.0 (3)	62.0 (3)	63.0 (3)
Operation range	Evaporator	Cooling	Max.~Min.	°CDB	10~-45						
Refrigerant	Type / GWP				R-410A/2,087.5						
	Charge			kg	5.2		7.9			11.5	
				TCO_2eq	10.9		16.5			24.0	
	Control				Electronic expansion valve						
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/380-415						

				LREQ-BY1	30	40
System	Outdoor unit module 1				LREQ15BY1R	LREQ20BY1R
	Outdoor unit module 2				LREQ15BY1R	LREQ20BY1R
Refrigerating capacity	Medium temperature	Nom.		kW	67.8 (1)	75.8 (1)
	Low temperature	Nom.		kW	27.8	29.6
Power input	Medium temperature	Nom.		kW	30.4	34.0
	Low temperature	Nom.		kW	25.6	27.6
Sound pressure level	Nom.			dBA	65.0	66.0
Piping connections	Liquid				ø 19.05	
	Gas				ø 41.28	

(1) Cooling: evaporating temp. -10°C; outdoor temp. 32°C; suction SH10°C (2) Cooling: evaporating temp. -35°C; outdoor temp. 32°C; suction SH10°C (3) Sound pressure data: measured at 1m in front of unit, at 1.5m height | RLA is based on following conditions: outdoor temp. 32°CDB; suction SH 10°C; saturated temperature equivalent to suction pressure -10°C

INVERTER

Mini-ZEAS condensing unit

Refrigeration solution for small food retailers

- Inverter technology guarantees optimal food conservation by ensuring an accurate temperature and humidity control
- The economized scroll contributes to a longer lifetime expectation of the refrigeration equipment and less maintenance requirement
- The use of R-410A refrigerant allows the use of smaller piping diameters, thus reducing the refrigerant content in the system helping to lower our CO_2 footprint. R-410A is fully compliant with the latest F-Gas regulation and can be still used after 2020 and beyond
- The DC economized compressor improves drastically the efficiency of the unit, thus helps lowering the energy bill!
- Lowest sound level in the market down to 31 dBA. Sound level can be even further reduced thanks to the low noise modes
- The weight of the unit is very low, therefore the unit can even be mounted on the wall
- Up to 75% smaller than equivalent products in the market, ideal for those places where space is limited
- Advanced software solution for easy system configuration and commissioning



LRMEQ-BY1

Inverter technology

Scroll compressor

LRMEQ-BY1 LRLEQ-BY1

Medium Temperature Refrigeration				LRMEQ/LRLEQ	3BY1	4BY1	3BY1	4BY1
Connectable capacity	Minimum~Maximum			%	50~100			
Refrigerating capacity	Low	Nom.		kW	-		2.78 (1)	3.62 (1)
	Medium	Nom.		kW	5.90	8.40	-	
Power input	Low	Nom.		kW	-		2.60 (1)	3.41 (1)
	Medium	Nom.		kW	2.53	3.65	-	
COP	Medium	Nom.			2.33	2.30	-	
Seasonal energy performance ratio SEPR	R-410A	Te -10°C - Te -35°C			4.17	4.08	1.74	1.68
Annual electricity consumption Q	R-410A	Te -10°C - Te -35°C		kWh/a	8,698	12,651	11,920	16,048
Parameters at part load and ambient temp. 25°C (Point B)	R-410A	Te -10°C - Te -35°C	Declared COP (COPB)		2.93	2.87	1.26	1.23
Parameters at full load and ambient temp. 32°C (Point A)	R-410A	Te -10°C	Rated COP (COPA)		2.33	2.30	-	
		Te -35°C	Rated COP (COPA)		-		1.07	1.06
		Te -10°C - Te -35°C	Rated cooling capacity (PA)	kW	5.90	8.40	2.78	3.62
			Rated power input (DA)	kW	2.53	3.65	2.60	3.41
Parameters at full load and ambient temp. 43°C	R-410A	Te -10°C	Declared COP (COP3)		1.51	1.48	-	
		Te -35°C	Declared COP (COP3)		-		0.59	0.66
		Te -10°C - Te -35°C	Cooling capacity (P3)	kW	5.28	7.22	2.13	3.02
			Power input (D3)	kW	3.50	4.89	3.58	4.57
Parameters at part load and ambient temp. 15°C (Point C)	R-410A		Declared COP (COPC)		4.12	3.92	1.63	
Parameters at part load and ambient temp. 5°C (Point D)	R-410A		Declared COP (COPD)		5.15	5.20	2.13	1.98
Dimensions	Unit	HeightxWidthxDepth		mm	1,345x900x320			
Weight	Unit			kg	126		130	
Heat exchanger	Type				Cross fin coil			
Compressor	Type				Hermetically sealed scroll compressor			
	Starting method				Direct on line (inverter driven)			
Fan	Type				Propeller			
	Quantity				2			
	Air flow rate	Cooling	Nom.	m^3/min	106			
Fan motor	Output			W	70			
	Drive				Direct drive			
Sound pressure level	Nom.			dBA	51 (1)		51.0 (2)	
Piping connections	Liquid	OD		mm	9.52			
	Gas	OD		mm	19.1			
Refrigerant	Type/GWP				R-410A/2,087.5			
Refrigerant	Charge			kg/TCO2Eq	4.50/9.39		6.90/14.4	
	Control				Electronic expansion valve			
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415			

(1) Sound pressure data: measured at 1m in front of unit, at 1.5m height | (2)Cooling: evaporating temp. -35°C; outdoor temp. 32°C; suction SH10°C | Cooling: evaporating temp. -10°C; outdoor temp. 32°C; suction SH10°C

Compact CO_2 transcritical

Compact compressor racks fully equipped for cold generation with CO_2 in transcritical cycle

- Double V battery.
- Greater exchange surface, that allows a lower refrigerant flow and charge.
- Possibility of installing a heat recovery unit.
- Electrical panel with controller and disconnect switch with external control.
- Two independent modules to contain the compressors and the gas cooler.
- NV58 drivable EC fans.
- EPOXY resin treatment option for battery protection.
- Complete solution.
- Plug & Play.
- Indoor & outdoor.
- Gas Cooler included.
- 360° access.
- Compact equipment.
- Soundproofing.
- Selectable electronic brand.
- Condenser with 5 mm tubes (high performance) and with low refrigerant charge.
- Optional: proportional compressor.





Selectable electronic brand



NOVA66: 360° accessibility

RHX

RHX

PS 120 / 70 / 52 / 30 Bar

Plug & Play

Emergency unit

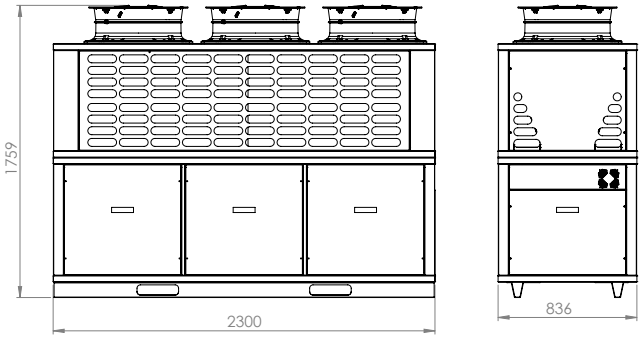
Compact design

Axial version NV66

Fans
- 3x Ø500 mm

Air flow
- 24,000 m³/h

Sound pressure at 10 m
- 46 up to 57 dB(A)



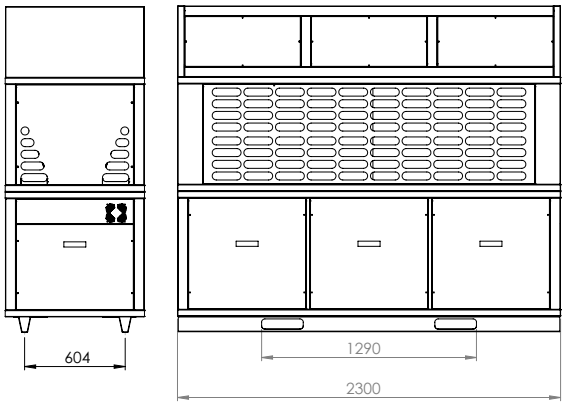
Radial version NV66

Fans
- 3x Ø500 mm

Air flow
- 22,500 m³/h

Available pressure
- 100 Pa

Sound pressure at 10 m
- 50 up to 56 dB(A)



NV66 CO_2					
Application		MT		MT + CP	
Cooling capacity	kW	44 kW	54 kW	63 kW	40 + 4 kW
Number of compressors	nº	2	3	2 + 1	2 + 1
Inverter compressors	nº	1	1	1 + 1	1 + 0 (opt.)
Extra equipment	Tipo	IHX/RHX	IHX/RHX	IHX/RHX	IHX/RHX
Recovery (max)	kW	30 kW	38 kW	40 kW	30 kW

* Calculation conditions: Tev MT -8ºC, Tev LT -32ºC, Tsgc +35ºC.

Compact transcritical CO_2 compressor racks

Compact compressor racks fully equipped for cold generation with CO_2 in transcritical cycle

- Double V battery with great exchange surface and lower flow rate required.
- Two independent modules to contain the compressors and the gas cooler.
- 360° accessible.
- Up to 5 compressors.
- 3 air outlet configurations.
- Electrical panel with controller.
- Multiple possibilities of loading and transportation.
- Complete solution.
- Plug & Play.
- Indoor & outdoor.
- Gas Cooler included.
- 360° access.
- Compact equipment.
- Soundproofing.
- Selectable electronic brand.
- Parallel compressor (option).
- Oil separator accumulator.
- 90 l liquid receiver with internal exchanger for connection to the emergency unit.
- Two electronic refrigerant level sensors (high and low level).
- Emergency unit on board.
- Parallel compressor (option).
- Copper pipes and connections.
- Frequency inverter for the first MT compressor and optional for the LT compressor.
- Selectable electronic brands: Tewis (EWCM9000pro), Danfoss (AK-PC 772) or Carel (pRack PR300T).
- Axial/radial fans option.
- RHX option.
- Design pressures:
  - MP (MT Suction): 52 bar.
  - LP (LT Suction): 30 bar.
  - IP (Receiver and liquid line): 70 bar.
  - HP (Discharge): 120 bar.



Selectable electronic brand



RHX

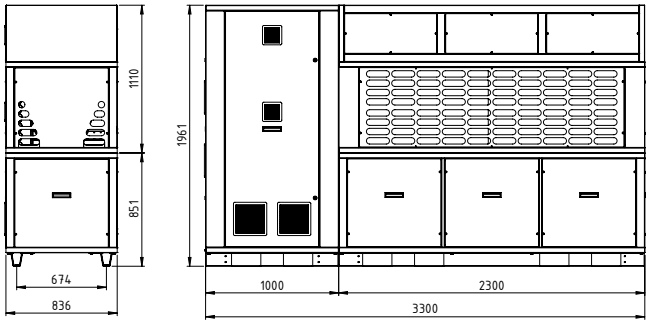
Emergency unit

PS 120 / 70 / 52 / 30 Bar

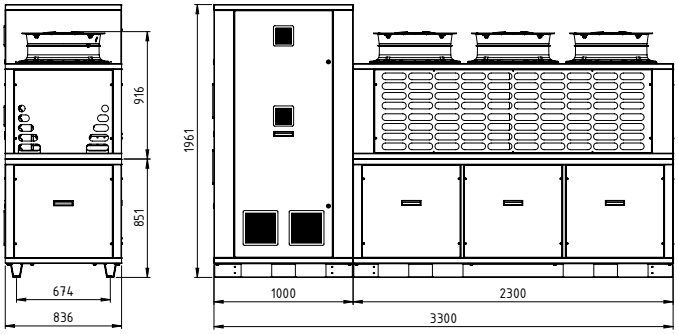
Compact design

Plug & Play

Radial version



Axial version



		GNV66**291XBX	GNV66**045XBX	TNV66**951YBX	TNV66**921YBX	TNV66**170XBX	TNV66**042XBX	TNV66**301XBX	TNV66**965YBX	TNV66**767XDX
Application		MT		MT + LT						
Compressor		Bitzer								Dorin
Capacity MT*	kW	47.37	70.05	43.44	49.33	66.12	46.52	63.31	28.42	37.27
Capacity LT*	kW	–	–	3.9	3.9	3.9	6.68	6.68	6.68	7.27
MT compressors		1x 4JTC-15K (V.F.) + 1x 4HTC-15K	1x 4JTC-15K (V.F.) + 2x 4HTC-15K	1x 4JTC-15K (V.F.) + 1x 4HTC-15K	1x 4MTC-10K (V.F.) + 2x 4KTC-10K	1x 4JTC-15K (V.F.) + 2x 4HTC-15K	1x 4MTC-10K (V.F.) + 2x 4KTC-10K	1x 4JTC-15K (V.F.) + 2x 4HTC-15K	1x 4MTC-10K (V.F.) + 1x 4KTC-10K	1x CD4120-9.2H (V.F.) + 1x CD490-9.2M
LT compressors		–	–	1x 2MSL-07K	1x 2MSL-07K	1x 2MSL-07K	2x 2MSL-07K	2x 2MSL-07K	2x 2MSL-07K	2x CDS101B

		TNV66**919YBX	TNV66**762XDX	TNV66**768XDX	TNV66**310XBX	TNV66**322XBX	TNV66**966YBX	TNV66**769XDX	TNV66**775XDX	TNV66**323XBX
Application		MT + LT								
Compressor		Bitzer	Dorin		Bitzer			Dorin		Bitzer
Capacity MT*	kW	44.96	26.44	34.8	42.09	58.88	23.99	30.85	41	55.82
Capacity LT*	kW	8.26	9.68	9.68	11.1	11.1	11.1	13.54	13.54	14.16
MT compressors		1x 4MTC-10K (V.F.) + 2x 4KTC-10K	1x CD490-6.4H (V.F.) + 1x CD490-9.2M	1x CD4120-9.2H (V.F.) + 1x CD490-9.2M	1x 4MTC-10K (V.F.) + 2x 4KTC-10K	1x 4JTC-15K (V.F.) + 2x 4HTC-15K	1x 4MTC-10K (V.F.) + 1x 4KTC-10K	1x CD4120-9.2H (V.F.) + 1x CD490-9.2M	1x CD490-6.4H (V.F.) + 2x CD490-9.2M	1x 4JTC-15K (V.F.) + 2x 4HTC-15K
LT compressors		1x 2JSL-2K	2x CDS151B	2x CDS151B	2x 2KSL-1K	2x 2KSL-1K	2x 2KSL-1K	2x CDS181B	2x CDS181B	2x 2JSL-2K

* Calculation conditions: Tev MT -8ºC, Tev LT -32ºC, Tsgc +35ºC.





Multi-compressor packs and racks

Compressor packs & racks

Multi compressor units

Standard configuration



Basic frame version:

- Basic frame made from folded and painted steel sheet, screwed with bolts to make a basic structure to fix the components on it

Basic refrigeration system:

- Each compressor is fitted with shut-off valves on suction line and discharge line
- The compressors are fixed to the frame through rubber anti vibration supports
- The oil system is through a oil separator, oil equalization is through a header fitted in the compressors oil sight glasses
- According to the number of compressors fitted, there are one or two oil level indicators, fitted into the equalization header
- The refrigerating system is equipped with liquid receiver, if the receiver is more than one, the installation is made in parallel with a safety valve; a dehydration cartridge filter, interchangeable, liquid level alarm, liquid sight glass and shut off valves
- On suction line there is a mechanical cartridge filter, interchangeable

Options and accessories:

- Mechanical oil equalization system
- Electronic oil distribution system
- Closed frame
- Closed frame with simple sound proofing material
- Closed frame with double layer sound proofing material
- Anti-vibration supports
- Oversized liquid receiver
- Different voltage and/or frequency
- EWCM 4180 Electronic card
- XC1000D-EWCM9100 Electronic card

Standard features

- Metal open frame with electrical switchboard
- Compressor parallel with discharge and suction header
- Liquid receiver
- Liquid line
- High and low pressure switch
- Electrical switchboard complete with electronic control

Single Screw compressor

The single screw compressor consists of a main single screw and two gate rotors. They are designed for high capacities and optimal performances through the step less capacity control.

Compact CO_2 mini compressor racks

Mini compact compressor racks with less than 1 m^2 footprint, highly competitive, with CO_2 in transcritical cycle for cold generation

- Highly accessible front opening door with hinges.
- Lateral practicable door.
- Vertical liquid receiver with exchanger prepared for connection to the emergency unit.
- Practicable electrical panel with controller and complete wiring.
- Compatible with Tewis remote management systems.
- Adapted design for proper loading and transportation.
- Up to 2 MT compressors and 1 LT compressor.
- 360º access for easy maintenance.
- Oil separator accumulator.
- Two refrigerant level electronic sensors (high and low level).
- Frequency inverter for the first MT compressor and optional for the LT compressor.
- Optional frame for outdoor use.
- 48l liquid receiver, with internal exchanger for connection to the emergency unit.
- Optional connection to an external RHX. RHX can be installed on MT models.
- Emergency unit not included (junctions included). Required power: 280 W @R134a Tev +5°C.
- Selectable electronic brands: Tewis (EWCM9000pro), Danfoss (AK-PC 772) or Carel (pRack PR300T Medium).
- Bitzer & Dorin compressors.
- Design pressures:
  - MP (MT suction): 52 bar.
  - LP (LT suction): 30 bar.
  - IP (Receiver and liquid line): 70 bar.
  - HP (Discharge): 120 bar.

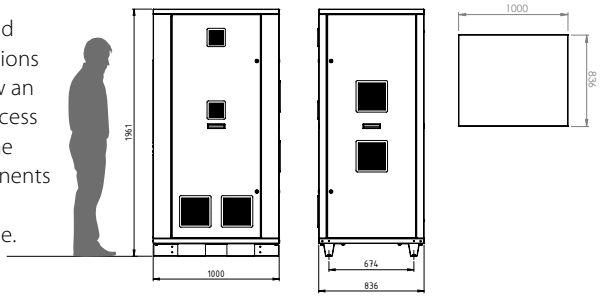


360º access, with lateral practicable door.



NS21

Reduced dimensions to allow an easy access to all the components of the machine.



RHX — RHX

Plug & Play — Plug & Play

Compact design — Compact design

PS 120 / 70 / 52 / 30 Bar — PS 120 / 70 / 52 / 30 Bar

Sound-proofing [Optional] — Sound-proofing [Optional]

Maintan. costs — Maintan. costs

BITZER		GNS21JC302XBX	GNS21JC872YBX	GNS21JC882YBX	TNS21JC304XBX	TNS21JC881YBX	TNS21JC880YBX
Application		MT			MT+LT		
Capacity MT*	kW	18.17	22.63	35.15	14.24	31.88	31.22
Capacity LT*	kW	-			3.90	3.23	3.90
GC needed	kW	32.08	39.96	62.08	32.08	62.08	62.08
MT Compressors	nº	1x 2MTE-5K + 1x 2KTE-7K	1x 4PTC-7K + 1x 4MTC-7K	1x 4MTC-10K + 1x 4KTC-10K	1x 2MTE-5K + 1x 2KTE-7K	1x 4MTC-10K + 1x 4KTC-10K	1x 4MTC-10K + 1x 4KTC-10K
LT Compressors	nº	-			1x 2MSL-07K	1x 2NSL-05K	1x 2MSL-07K
Lp**	dB(A)	38.7	46.7	47.3	39.4	47.4	47.4

DORIN		GNS21JC677XDX	GNS21JC684XDX	GNS21JC750XDX	TNS21JC670XDX	TNS21JC679XDX	TNS21JC678XDX	TNS21JC658XDX	TNS21JC753XDX	TNS21JC659XDX
Application		MT			MT+LT					
Capacity MT*	kW	25.58	36.35	44.71	21.07	27.93	30.33	31.83	34.05	40.19
Capacity LT*	kW	-			4.37	8.15	5.83	4.37	10.30	4.37
GC Capacity	kW	45.17	64.18	78.95	45.17	64.18			78.95	
MT Compressors	nº	1x CD475-4.7H + 1x CD475-6.4M	1x CD490-6.4H + 1x CD490-9.2M	1x CD4120-9.2H + 1x CD490-9.2M	1x CD475-4.7H + 1x CD475-6.4M	1x CD490-6.4H + 1x CD490-9.2M	1x CD490-6.4H + 1x CD490-9.2M	1x CD490-6.4H + 1x CD490-9.2M	1x CD4120-9.2H + 1x CD490-9.2M	1x CD4120-9.2H + 1x CD490-9.2M
LT Compressors	nº	-			1x CDS101B	1x CDS181B	1x CDS151B	1x CDS101B	1x CDS301B	1x CDS101B
Lp**	dB(A)	39.6	41.2	42.1	39.7	41.3			42.2	42.1

* Calculation conditions: Tev MT -8ºC, Tev LT -32ºC, Tsgc +35ºC. | **Sound pressure at 10m, considering a spherical surface, in open ground and with soundproofing. Tolerance ±2 dB.

AXIAL		GNV58PE	GNV58PE LPS	GNV66PE	GNV66PE LPS
Capacity	kW	58.84	52.15	88.4	79.27
Air flow	m³/h	16,400	12,800	24,000	19,200
Sound pressure 10m	dBA	52	46	53	45
Fans	nº	2x Ø500 EC		3x Ø500 EC	

RAD.		GNV58NE	GNV66NE
Capacity	kW	56.28	85.61
Air flow	m³/h	15,000	22,500
Sound pressure 10m	dBA	49	50
Fans	nº	2x Ø500 EC	3x Ø500 EC

* Calculation conditions: Air T. 35ºC, GC outlet 37ºC, Gas Inlet T. 115ºC, Gas Pressure 92 bar. Available pressure radial models. 100 Pa



GNV58 GNV66

CO_2 compact compressor rack

Compact compressor racks fully equipped for the generation of cold with CO_2 in transcritical cycle

- Horizontal liquid receiver: 92/120/160 lit.
- Tubular chassis.
- Electrical panel located above the compressors.
- Separator accumulator.
- Up to 6 compressors.
- Easy start-up and maintenance: all connections on the same side.
- Reduced width of 790 mm that allows it to pass through any standard door.
- Oil separator accumulator.
- 92/120/160 l liquid receiver, with internal exchanger for connection to emergency unit.
- Two electronic refrigerant level sensors (high and low levels).
- Frequency inverter for the first MT compressor and optional for the LT compressor.
- Selectable electronics brand: Tewis (EWCM9000pro), Danfoss (AK-PC 772 or 782) or Carel (pRack PR300T Medium or Large).
- All copper connections.
- Design pressures:
  - MP (MT suction): 52 bar.
  - LP (LT suction): 30 bar.
  - IP (Receiver and liquid line): 70 bar.
  - HP (Discharge): 120 bar.

RHX — RHX

Emergency unit — Emergency unit

Plug & Play — Plug & Play

PS 120 / 70 / 52 / 30 Bar — PS 120 / 70 / 52 / 30 Bar

Compact design — Compact design

40 to 140KW — 40 to 140KW

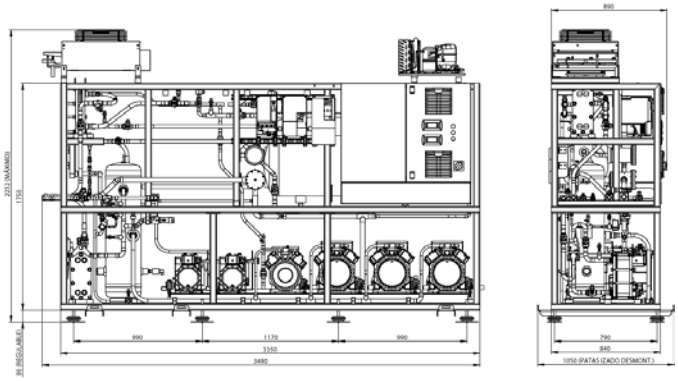
Receiver up to 160l — Receiver up to 160l



Smart Rack

Three different frame sizes available:

- 4 compressors: lenght 1,900 mm
- 5 compressors: lenght 2,650 mm
- 6 compressors: lenght 3,350 mm



			GSR2FJ_093YBX	GSR2FJ_041YBX	TSR2EJ_585XBX	TSR2FJ_092XBX	TSR2FJ_086YBX	TSR2FJ_089YBX
Application			MT		MT+LT			
Capacity MT*	70 Hz	kW	94.9	114.67	36.84	62.7	75.26	81.48
Capacity LT*	70 Hz	kW	-		5.79	6.48	6.48	6.48
MT Compressors		nº	1x 4JTE-15K (V.F.) + 2x 4JTE-15K	1x 4HTE-20K (V.F.) + 1x 4FTE-20K	1x 4JTE-15K (V.F.) + 1x 4JTE-15K	1x 4HTE-20K (V.F.) + 1x 4FTE-20K	1x 4HTE-20K (V.F.) + 2x 4HTE-20K	1x 4HTE-20K (V.F.) + 1x 4HTE-20K
Parallel Compressors		nº	1x 4MTE-10K	1x 4JTE-15K	-			1x 4MTE-10K
LT Compressors		nº	-		1x 2KSL-1K	1x 2KSL-1K	1x 2KSL-1K	1x 2KSL-1K

			TSR2FJ_439YBX	TSR2FJ_090YBX	TSR2FJ_490YBX	TSR2FJ_489YBX	TSR2EJ_112XBX	TSR2FJ_128XBX
Application			MT+LT					
Capacity MT*	70 Hz	kW	70.61	37.97	62.01	73.76	20.47	50.81
Capacity LT*	70 Hz	kW	11.1	12.7	14.16	14.16	18.5	18.33
MT Compressors		nº	1x 4HTE-20K (V.F.) + 2x 4HTE-20K	1x 4JTE-15K (V.F.) + 1x 4HTE-20K	1x 4JTE-15K (V.F.) + 1x 4JTE-15K	1x 4HTE-20K (V.F.) + 1x 4HTE-20K	1x 4JTE-15K (V.F.) + 1x 4JTE-15K	1x 4HTE-20K (V.F.) + 1x 4FTE-20K
Parallel Compressors		nº	—	1x 4MTE-10K	1x 4MTE-10K	1x 4MTE-10K	-	
LT Compressors		nº	1x 2KSL-1K + 1x 2KSL-1K	1x 2GSL-3K	1x 2JSL-2K + 1x 2JSL-2K	1x 2JSL-2K + 1x 2JSL-2K	1x 2HSL-3K + 1x 2HSL-3K	1x 2HSL-3K + 1x 2HSL-3K

			TSR2FJ_128XBX	TSR2EJ_893XBX	TSR2FJ_193YBX	TSR2EJ_895XBX	TSR2FJ_444YBX	TSR2FJ_088YBX
Application			MT+LT					
Capacity MT*	70 Hz	kW	80.75	22.5	82.91	22.81	46.8	76.79
Capacity LT*	70 Hz	kW	18.5	21.06	21.77	28.07	27.82	27.82
MT Compressors		nº	1x 4HTE-20K (V.F.) + 2x 4FTE-20K	1x 4JTE-15K (V.F.) + 1x 4HTE-20K	1x 4HTE-20K (V.F.) + 2x 4FTE-20K	1x 4HTE-20K (V.F.) + 1x 4HTE-20K	1x 4JTE-15K (V.F.) + 2x 4HTE-20K	1x 4HTE-20K (V.F.) + 2x 4FTE-20K
Parallel Compressors		nº	—	—	—	—	—	—
LT Compressors		nº	2x 2HSL-3K	1x 2GSL-3K + 1x 2GSL-3K	1x 2GSL-3K + 1x 2GSL-3K	1x 2FSL-4K + 1x 2FSL-4K	1x 2FSL-4K + 1x 2FSL-4K	1x 2FSL-4K + 1x 2FSL-4K

			TSR2GJ_001ZBX	TSR2GJ_002ZBX	TSR2GJ_003ZBX	TSR2GJ_004ZBX	TSR2GJ_995YBX	TSR2GJ_005ZBX
Application			MT+LT					
Capacity MT*	70 Hz	kW	66.43	72.4	106.38	118.19	70	134.08
Capacity LT*	70 Hz	kW	6.68	11.1	14.16	21.77	25	27.82
MT Compressors		nº	1x 4MTE-10K (V.F.) + 2x 4MTE-10K	1x 4MTE-10K (V.F.) + 2x 4KTE-10K	1x 4JTE-15K (V.F.) + 2x 4HTE-15K	1x 4HTE-20K (V.F.) + 2x 4HTE-15K	1x 4JTE-15K (V.F.) + 2x 4HTE-20K	1x 4HTE-20K (V.F.) + 2x 4FTE-20K
Parallel Compressors		nº	1x 4MTE-10K (V.F.)	1x 4MTE-10K (V.F.)	1x 4JTE-15K (V.F.)	1x 4HTE-20K (V.F.)	1x 4MTE-10K (V.F.)	1x 4HTE-20K (V.F.)
LT Compressors		nº	1x 2MSL-07K (V.F.) + 1x2MSL-07K	1x 2KSL-1K (V.F.) + 1x 2KSL-1K	1x 2JSL-2K (V.F.) + 1x 2JSL-2K	1x 2GSL-3K (V.F.) + 1x 2GSL-3K	1x 2FSL-4K (V.F.) + 1x 2FSL-4K	1x 2FSL-4K (V.F.) + 1x 2FSL-4K

* Calculation conditions: Tev MT -8ºC, Tev LT -32ºC, Tsgc +35ºC. | Design pressures: MP (MT suction): 52 bar, LP (LT suction): 30 bar, IP (Container and liquid line): 70 bar, HP (Discharge): 120 bar | Temperature, LT = Low Temperature, pc = Parallel compressor

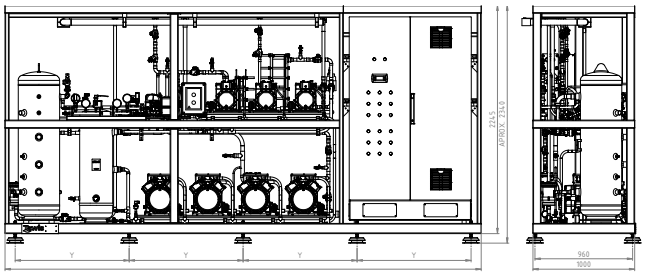
CO_2 compact compressor rack

Smart Duplex compressor racks offer the highest powers for the commercial refrigeration range with CO_2 at 2 temperatures

- Profitability and energy savings.
- 100% CO_2 = low enviromental impact.
- Compact and simple design (only 1 m depth).
- High capacity up to 9 compressors.
- Vertical liquid receiver with high capacity (up to 2x250 l).
- Extreme flexibility.
- Remote control (accessible anywhere).
- Easy commissioning and maintainance.
- Possibility of 2 RHX, one for DHW and one for air conditioning.
- Tubular chassis.
- Oil separator accumulator.
- High capacity liquid receiver (up to 2x250 l).
- Up to 9 compressors.
- Frequency inverter for MT & LT.
- Two electronic sensors for refrigerant levels.
- All copper connections.



Smart Duplex



from 4.7 up to 6 m (depending on model)

Depth: just 1 m

RHX — RHX

Plug & Play

M2 — 1,000 - 2,500 m²

PS 120 / 60 / 52 / 30 Bar

Emergency uni

Compact design

80 to 250KW

Liquid receiver up to 2x250

< Maintan. costs

			GSD3KJ_048ZBX	GSD3MJ_049ZBX	TSD3JJ_028ZBX	TSD3JJ_030ZBX	TSD3JJ_031ZBX	TSD3KJ_033ZBX
Application			MT		MT+LT			
Capacity MT*	70 Hz	kW	179.56	266.6	52	64.41	77.52	105.43
Capacity LT*	70 Hz	kW	-		20.37	31.32	26.38	34.14
MT Compressors		nº	1x 4HTE-20K (V.F. @70 Hz) + 4x 4FTE-30K	1x 4FTE-30K (V.F. @70 Hz) + 4x 4CTE-30K	1x 4JTE-15K (V.F. @70 Hz) + 2x 4HTE-20K	1x 4JTE-15K (V.F. @70 Hz) + 3x 4HTE-20K	1x 4HTE-20K (V.F. @70 Hz) + 2x 4FTE-30K	1x 4HTE-20K (V.F. @70 Hz) + 3x 4FTE-30K
Parallel Compressors		nº	-					
LT Compressors		nº	-		1x 2JSL-2K (V.F. @70 Hz) + 2x 2JSL-2K	1x 2GSL-3K (V.F. @70 Hz) + 2x 2GSL-3K	1x 2HSL-3K (V.F. @70 Hz) + 2x 2HSL-3K	1x 2HSL-3K (V.F. @70 Hz) + 3x 2HSL-3K

			TSD3JJ_035ZBX	TSD3JJ_034ZBX	TSD3JJ_050ZBX	TSD3JJ_051ZBX	TSD3MJ_052ZBX	TSD3MJ_053ZBX
Application			MT+LT					
Capacity MT*	70 Hz	kW	122.55	113.46	155.36	172.74	184.04	213.73
Capacity LT*	70 Hz	kW	18.62	26.81	36.44	36.44	75.88	48.21
MT Compressors		nº	1x 4HTE-20K (V.F. @70 Hz) + 3x 4FTE-30K	1x 4HTE-20K (V.F. @70 Hz) + 3x 4FTE-30K	1x 4HTE-20K (V.F. @70 Hz) + 3x 4CTE-30K	1x 4FTE-30K (V.F. @70 Hz) + 3x 4CTE-30K	1x 4FTE-30K (V.F. @70 Hz) + 4x 4CTE-30K	1x 4FTE-30K (V.F. @70 Hz) + 4x 4CTE-30K
Parallel Compressors		nº	-					
LT Compressors		nº	1x 2HSL-3K (V.F. @70 Hz) + 1x 2HSL-3K	1x 2JSL-2K (V.F. @70 Hz) + 2x 2GSL-3K	1x 2GSL-3K (V.F. @70 Hz) + 2x 2FSL-4K	1x 2GSL-3K (V.F. @70 Hz) + 2x 2FSL-4K	1x 2DSL-5K (V.F. @70 Hz) + 3x 2DSL-5K	1x 2GSL-3K (V.F. @70 Hz) + 3x 2FSL-4K

			TSD3JJ_037ZBX	TSD3JJ_039ZBX	TSD3JJ_042ZBX	TSD3JJ_040ZBX	TSD3JJ_044ZBX	TSD3KJ_041ZBX
Application			MT+LT					
Capacity MT*	70 Hz	kW	85.97	110.01	123.56	119.33	130.4	123.71
Capacity LT*	70 Hz	kW	31.32	26.81	14.38	35.02	24.67	36.44
MT Compressors		nº	1x 4JTE-15K (V.F. @70 Hz) + 2x 4HTE-20K	1x 4HTE-20K (V.F. @70 Hz) + 2x 4HTE-20K	1x 4HTE-20K (V.F. @70 Hz) + 2x 4HTE-20K	1x 4JTE-15K (V.F. @70 Hz) + 2x 4FTE-30K	1x 4JTE-15K (V.F. @70 Hz) + 2x 4FTE-30K	1x 4HTE-20K (V.F. @70 Hz) + 3x 4HTE-20K
Parallel Compressors		nº	1x 4JTE-15K (V.F.)	1x 4HTE-20K (V.F.)	1x 4HTE-20K (V.F.)	1x 4HTE-20K (V.F.)	1x 4HTE-20K (V.F.)	1x 4HTE-20K (V.F.)
LT Compressors		nº	1x 2GSL-3K (V.F. @70 Hz) + 2x 2GSL-3K	1x 2JSL-2K (V.F. @70 Hz) + 2x 2GSL-3K	1x 2JSL-2K (V.F. @70 Hz) + 1x 2JSL-2K	1x 2ESL-4K (V.F. @70 Hz) + 1x 2ESL-4K	1x 2GSL-3K (V.F. @70 Hz) + 1x 2FSL-4K	1x 2GSL-3K (V.F. @70 Hz) + 2x 2FSL-4K

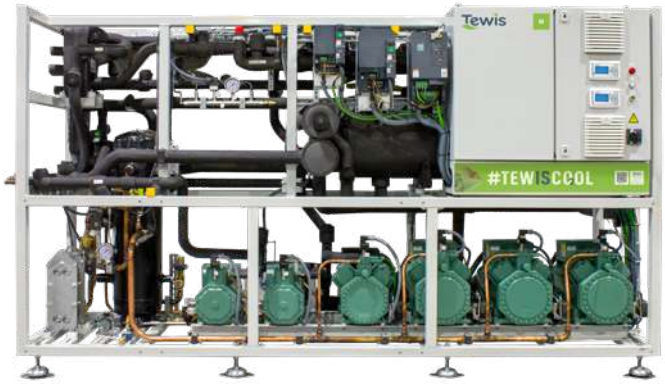
			TSD3KJ_041ZBX	TSD3JJ_045ZBX	TSD3KJ_046ZBX	TSD3KJ_047ZBX	TSD3KJ_096ZBX
Application			MT+LT				
Capacity MT*	70 Hz	kW	123.71	130.05	174.7	188.76	204.69
Capacity LT*	70 Hz	kW	36.44	31.32	49.61	36.44	26.38
MT Compressors		nº	1x 4HTE-20K (V.F. @70 Hz) + 3x 4HTE-20K	1x 4HTE-20K (V.F. @70 Hz) + 2x 4FTE-30K	1x 4HTE-20K (V.F. @70 Hz) + 3x 4FTE-30K	1x 4HTE-20K (V.F. @70 Hz) + 3x 4FTE-30K	1x 4GTE-30K (V.F. @70 Hz) + 2x 4DTE-25K
Parallel Compressors		nº	1x 4HTE-20K (V.F.)	1x 4HTE-20K (V.F.)	1x 4FTE-30K (V.F.)	1x 4FTE-30K (V.F.)	1x 4HTE-20K (V.F.) + 1x 4HTE-20K
LT Compressors		nº	1x 2GSL-3K (V.F. @70 Hz) + 2x 2FSL-4K	1x 2GSL-3K (V.F. @70 Hz) + 2x 2GSL-3K	1x 2ESL-4K (V.F. @70 Hz) + 2x 2ESL-4K	1x 2GSL-3K (V.F. @70 Hz) + 2x 2FSL-4K	1x 2HSL-3K (V.F. @70 Hz) + 1x 2HSL-3K

*Calculation conditions: Tev MT -8ºC, Tev LT -32ºC, Tsgc +35ºC.

Switchboard & electronic control

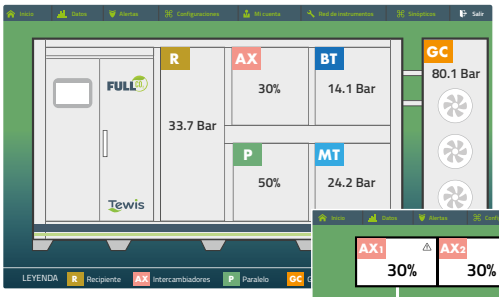
Switchboard

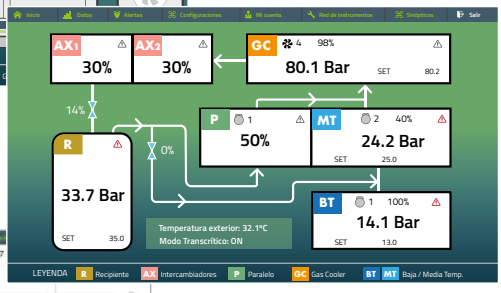
- Bench-mounted switchboard, including complete wiring.
- Power supply at 400V / 3F + N / 50Hz
- Frequency inverter in the first compressor in sections BT, MT and parallel
- Booster components and remote gas coolers electrically protected against overcurrents and short circuits.
- Option: electrical connections of power supply to the auxiliary unit



Electronic control

- It represents the best option for transcritical and subcritical CO_2 solutions with Booster circuit and allows to manage up to two circuits for the recovery of heat.
- Televis System compatible and open for the integration of Modbus RTU / TCP or BACnet MS / TP (optional) systems.
- Touch screen with synoptic and real-time data.
- Data logging and alarms.
- Historical charts and data tables.
- Parameter management.









DAIKIN



Fresh ideas
for reliable performance

Choose the better solution – with Tewis Full CO_2 refrigeration systems

Why do so many widely-known retail chains count on Tewis? Because Tewis offers a well-thought-out, complete range of efficient refrigeration systems. Especially when working with R-744 under high pressure, best quality solutions count double. Avoid problems – with Tewis features like full stainless steel piping or surprisingly intuitive control systems.



www.daikin.eu

Tewis
a member of DAIKIN group



Integrated solutions

Freezing (Low temperature) (-20°C / +35°C)

Chilling (Medium temperature) (0°C / +35°C)

Cooling/AC (High Temperature) (+20°C/+10°C)

Heating

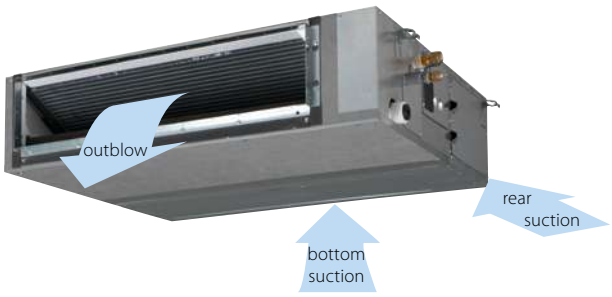
Model	Product name	Capacity (kW)	0 2 5 10 25 50 100 150 300 450
Integrated solution for chilling, freezing, comfort cooling and heating	Conveni-Pack LRYEQ-AY 		LT MT A/C HR + HP
	CO_2 Conveni-Pack LRNUN-AY1, LRYEN-AY1 		MT AC HR

Indoor units compatible with CO_2 Conveni-Pack

NEW



CO_2 Round Flow Cassette
FXFN-A



Concealed Ceiling Unit
FXSN-A2

Service station (Ranst, Belgium)
Conveni-Pack
Discover why a Belgian petrol station owner chose Daikin for its shop comfort and refrigeration needs.
www.youtube.com/DaikinEurope



Conveni-Pack,

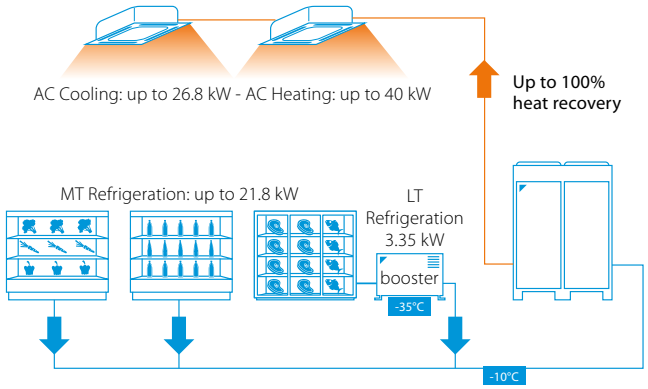
integrated solution for commercial refrigeration, heating and air conditioning

Why choose Conveni-Pack?

Competition in the retail food sector is fierce. This does not just affect the income you can earn from sales - operating costs are also a determing factor for success.

Energy efficient heat recovery system

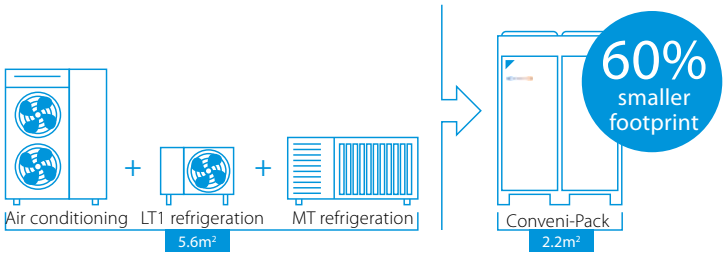
- Conveni-Pack recovers up to 100% of the heat extracted from supermarket refrigeration cases and re-uses it to heat the retail space and improve shop comfort at no additional cost (heat recovery system)
- Savings of up to 50% on energy costs
- Daikin inverter scroll compressor with economizer technology



Above-mentioned scheme is an example of what can be delivered depending on predefined conditions. For more detailed information, please consult the technical specifications in this catalogue.

Installing a compact solution

- Easy to install, even in small spaces
- Small footprint (up to 60% smaller footprint than conventional systems) and low weight
- Reduced piping requirements
- Minimal planning groundwork and lower assembly costs



Unique combination

- First mass-produced, whole-building system to combine medium and low refrigeration, heating, air conditioning in one circuit

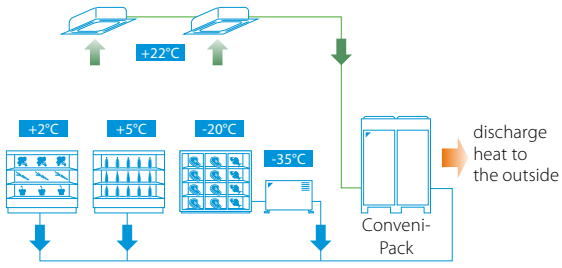
Reliable operation

- Error-proof component selection
- Factory leak-tested and pre-charged

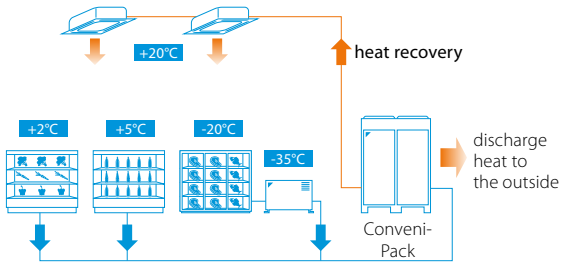
Year-round climate comfort

- Quiet operation: Improved acoustics thanks to night operation mode, inverter control and inverter driven fans with optimised blades and grills
- High grade sound insulation on both panels and compressors
- Specially designed fan blades to limit sound emissions
- 4 low sound operation settings including night mode
- The heat recovered from refrigerated and freezer display cabinets can be used to provide heating for the shop.

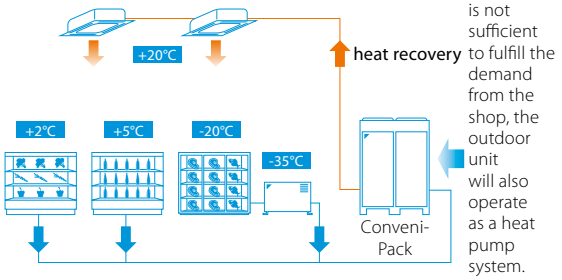
Summer



Spring/Autumn



Winter



If available heat from the cabinet is not sufficient to fulfill the demand from the shop, the outdoor unit will also operate as a heat pump system.

Internationally awarded

Winner of several awards* thanks to the innovating technology used and environmental friendly solution offered:

- Winner of UK Environmental Product of the Year, Cooling Industry Awards - 2006
- Winner of Incentive Prize, German Environment Ministry - 2007
- Winner of the Innovation Trophy, equipmag (exhibition in France) - 2008
- Winner of 2014 Institute of Refrigeration Ireland (IRI) Environmental award
- Environmental Friendliness category of the Top Retail Product Awards 2014 in Germany

Reference

Edeka Buschkühle supermarket (Germany)
2 Conveni-Pack systems supply 32 meters of service counters, 12.5 meters of convenience fridges, one cooling storage room for fruit, an air curtain and 5 indoor units; the ZEAS system supplies two deep-freeze cabinets with a total capacity of 5 kW.



Discover more references on
www.daikineurope.com/references

Benefits for installers/ consultants

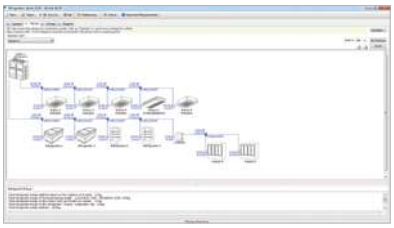
- Integrated electrical & control box
- Unit already pre-charged with refrigerant
- Established VRV technology ensuring optimised installation and maintenance
- Reduced delivery time thanks to European manufacturing plant
- Flexible system for multiple applications
- Connectable to all grocery refrigeration applications and supplied with a wide range of air conditioning indoor units to meet shop requirements
- Outdoor units can be positioned up to 35m above or 10m below the indoor units
- Piping length possible up to 130m
- Suitable for indoor installation through the use of high ESP fans

Benefits for shop owners

- Thought design for supermarkets and smaller retail outlets
- Maximised retail sales space available as Conveni-Pack has a footprint up to 60% smaller than conventional grocery refrigeration systems
- Reduced energy consumption by up to 50% through heat recovery
- Quiet operation, thus ideal for densely populated urban areas

Marketing tools

Refrigeration Xpress
User-friendly design software for Conveni-Pack, CCU, SCU and ZEAS condensing units. Its detailed report includes a list of materials, piping and wiring diagrams, and device options.



Short videos

- Watch a short animation on the unique refrigeration solution Conveni-Pack





CO_2 Conveni-Pack

Why choose CO_2 Conveni-pack?

- ☑ DX Refrigeration, Heating & Space cooling by CO_2, for those whom demand a totally natural solution
- ☑ Heat recovery, and for those colder days automatic heat pump operation
- ☑ Fully assembled & packaged unit, providing low noise levels
- ☑ Mass produced in Daikin Europe's award winning factory
- ☑ Each unit is fully factory & run tested
- ☑ All units in stock, fast delivery
- ☑ Reduces annual energy consumption by up to 50%, compared to other manufacturers solutions.
- ☑ Hermetic swing compressor, complete with two stage compression, for lower running temperatures
- ☑ Oversized DC Brushless motor technology for improved reliability & efficiency
- ☑ Automatically balances refrigeration & space heating / cooling loads
- ☑ "Plug and Play" technology, reduced "On site" commissioning
- ☑ Optimized control logic for reliability and efficiencies
- ☑ Adaptable evaporation temperature control


DAIKIN
ZEAS

Natural HVACR 4 life:

the birth of CO_2 CVP and CO_2 round-flow cassette!

Life Project subject: "A sustainability-focused research project exploring the use of CO_2 as a natural refrigerant led by Daikin Europe and co-funded by the EU" (https://www.naturalhvacr4life.eu/)

Actions

- **Demonstrate a Conveni-Pack prototype with R744 as refrigerant.**



- **Install, operate and monitor** the performance of multiple Conveni-Pack prototypes in supermarkets across Europe, ranging from average to warm climates (Germany and Spain) → extended to United Kingdom, Belgium, France and Italy.

- **Research and develop an economically viable cassette indoor** unit for comfort cooling and heating.



- Evaluate the potential of adding **cold storage / adiabatic** cooling to further reduce carbon emissions.

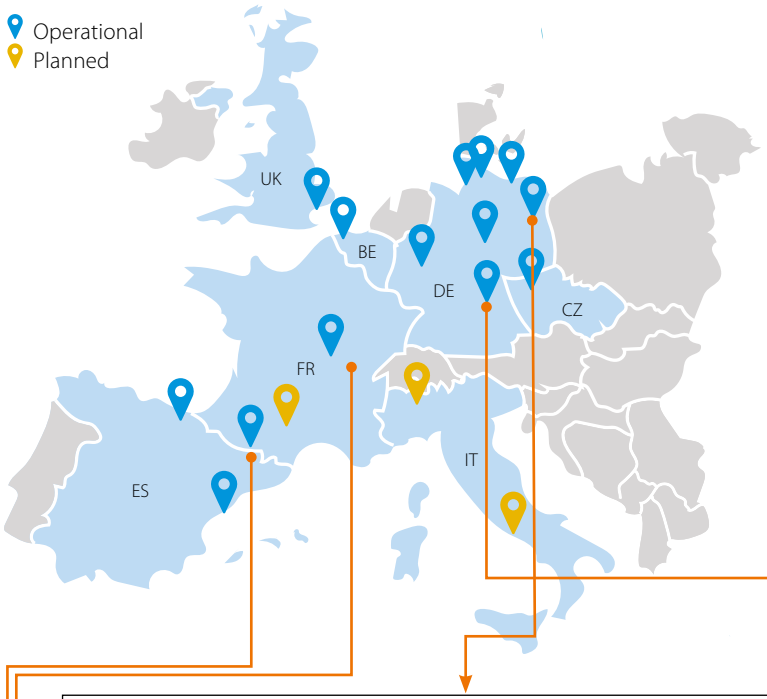
- Communicate about the Life project through exhibitions, conferences and online tools / Share project insights with policymakers and standardization bodies to facilitate the update of safety and energy related standards and labels.

- **Replicability - business plan and transfer of technology know how** to similar products → technology used on the CVP has been reused on the CO_2 ZEAS and further improved, this to fullfill new high ambient needs. (Tambient > 38°C)



CO_2 ZEAS range (8 till 15 HP)

12 food retail shops accross EU



Average climate zone

- Germany:
  - PENNY [4 shops]
  - BIO COMPANY [1 shop]
  - ebl Naturkost [2 shops]
- France: coccinelle [1 shop]
- UK: (co op [1 shop])
- CZECH: Factory shop [1 shop]
- Belgium:
  - Factory shop [1 shop]
  - (Q8 [1 shop])

Hot climate zone

- France: Carrefour [2 shops]
- Italy: naturasi [2 shops]
- Spain: Tewis fact. Test facility







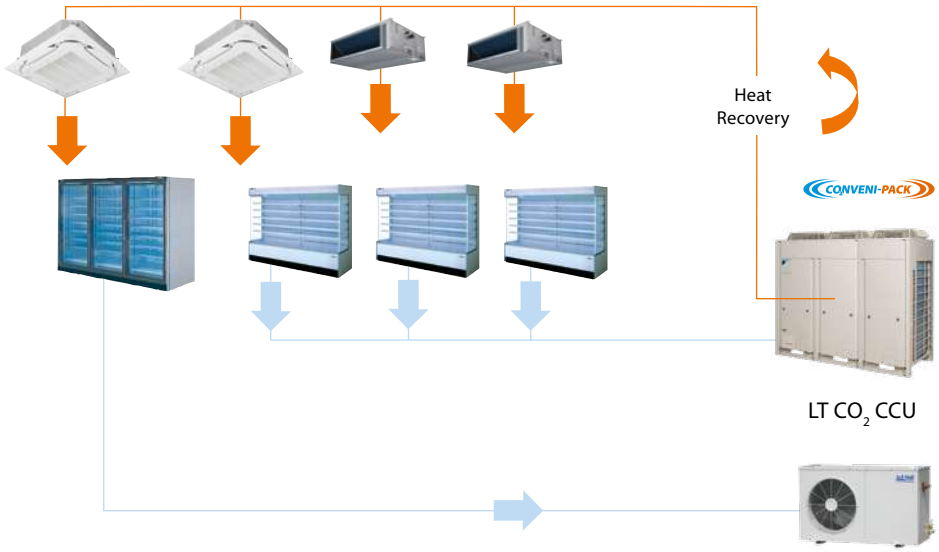


Low Temperature Showcases

Optional CO_2 CCU's are also available for Remote LT applications (not connected to Conveni-pack)



Plugin LT showcases with propane or LT condensing units with CO_2 are available to satisfy also freezer capacity needs.



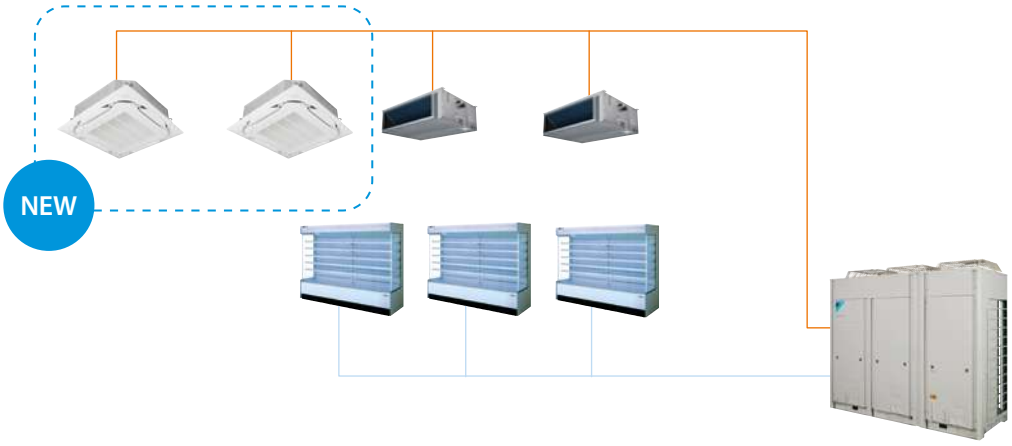
CO_2 Conveni-Pack refrigeration system with heat recovery

Refrigeration solution for food retailers featuring award winning technology for heat recovery

- Integrates high and low temperature refrigeration and air conditioning (including heating) into one system
- By using heat recovery, optimised controls and state of the art compressor technology, Conveni-pack can reduce annual energy consumption up to 50% or more, compared to conventional systems
- Lower associated CO_2 emissions thanks to the heat pump technology
- Conveni-pack's modular design allows it to be used for smaller as well as larger shops
- The modularity of the Conveni-pack system maximises installation flexibility. Outdoor units can be grouped into blocks or rows, or distributed around the building, to meet individual installation constraints
- The heat extracted from the refrigeration showcases or evaporators can be re-used for comfort heating of the shop at no extra cost
- Low sound level including „night mode" operation



LRYEN-AY1



LRYEN-AY1

Medium Temperature Refrigeration, Cooling Only, Heating Only			LRYEN	10AY1
Parameters at part load and ambient temp. 25°C (Point B)				-
Parameters at part load and ambient temp. 25°C (Point B)				-
Dimensions	Unit	HeightxWidthxDepth	mm	1,680x1,930x765
Weight	Unit		kg	563
Heat exchanger	Type			Cross fin coil
Compressor	Type			Hermetically sealed swing compressor
	Output		W	4,600.0
	Piston displacement		m^3/h	6.16
	Starting method			Direct on line (inverter driven)
Fan	Type			Propeller fan
	Quantity			3
	Air flow rate	Cooling Nom.	m^3/min	300
Fan motor	Output		W	750
Sound pressure level	Nom.		dBA	64.0
Refrigerant	GWP			1.0
	Type 2			R-744
	Charge		kg	6.30
	Control			Electronic expansion valve
Power supply	Phase/Frequency/Voltage		Hz/V	3N~/50/380-415

LRYEN10A7Y1+LRNUN5A7Y1 | Compressor 1 | Compressor 2 | Compressor 3 | Factory charge of unit | Only K65 with D.P. 120 bar is allowed to use for AC piping connections. | The safety valve pressure is indicated as gauge pressure. | Only K65 with D.P. 90 bar is allowed to use for refrigeration piping.

Capacity-up module for CO_2 Conveni-Pack

- Integrates high and low temperature refrigeration and air conditioning (including heating) into one system
- By using heat recovery, optimised controls and state of the art compressor technology, Conveni-pack can reduce annual energy consumption up to 50% or more, compared to conventional systems
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- Low sound level including „night mode" operation



LRNUN-AY1

Inverter technology

Swing compressor



8.5 kW of New Refrigeration added, Q-up installed to existing CO_2 CVP for additional capacity

LRNUN-AY1

Model	Refrigeration Capacity*	HR Capacity
DAIKIN CO_2 CVP AC10	3 - 14.5 kW	22 kW

Q-up can also easily be added later, as part of a system upgrade

Model	Refrigeration Capacity*	HR Capacity
DAIKIN CO_2 CVP AC10 + Q-up	3- 21 kW	22 kW

* Refrigeration capacity given under following conditions: Te = -10°C, 10 K SH and ambient = 32°C

Medium Temperature Refrigeration			LRNUN
			5AY1
Parameters at part load and ambient temp. 25°C (Point B)			-
Parameters at part load and ambient temp. 25°C (Point B)			-
Dimensions	Unit	HeightxWidthxDepth mm	1,680x635x765
Weight	Unit	kg	173
Heat exchanger	Type		Cross fin coil
Compressor	Type		Hermetically sealed swing compressor
	Output	W	4,600.0
	Piston displacement	m^3/h	6.16
	Starting method		Direct on line (inverter driven)
Fan	Type		Propeller fan
	Quantity		1
	Air flow rate	Cooling Nom. m^3/min	102
Fan motor	Output	W	350
Sound pressure level	Nom.	dBA	65.0 (1)
Refrigerant	GWP		1.0
	Type 2		R-744
	Charge	kg	3.20
	Control		Electronic expansion valve
Power supply	Phase/Frequency/Voltage	Hz/V	3N~/50/380-415

(1)LRYEN10A7Y1+LRNUN5A7Y1 | Compressor 1 | Compressor 2 | Compressor 3 | Factory charge of unit | Only K65 with D.P. 120 bar is allowed to use for AC piping connections. | The safety valve pressure is indicated as gauge pressure. | Only K65 with D.P. 90 bar is allowed to use for refrigeration piping.

CO_2 Cascade

Allows you to combine medium and low temperature into one application

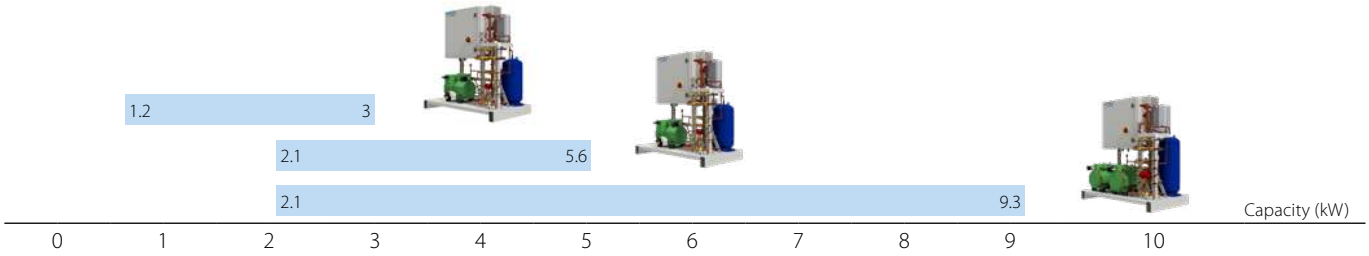
- Controls: you have the choice between Carel (C) and Wurm (W)
- Large liquid receiver of 15 liters to allow a correct operation of the unit
- The necessary safety requirements are standard foreseen in the equipment
  - HP side: Dual PRV 53 bar,
  - LP side: Single PRV 30 bar
- Standard accessories (included):
  - Filter drier and sight glass
  - Pressure dial gauges on High & Low pressure side

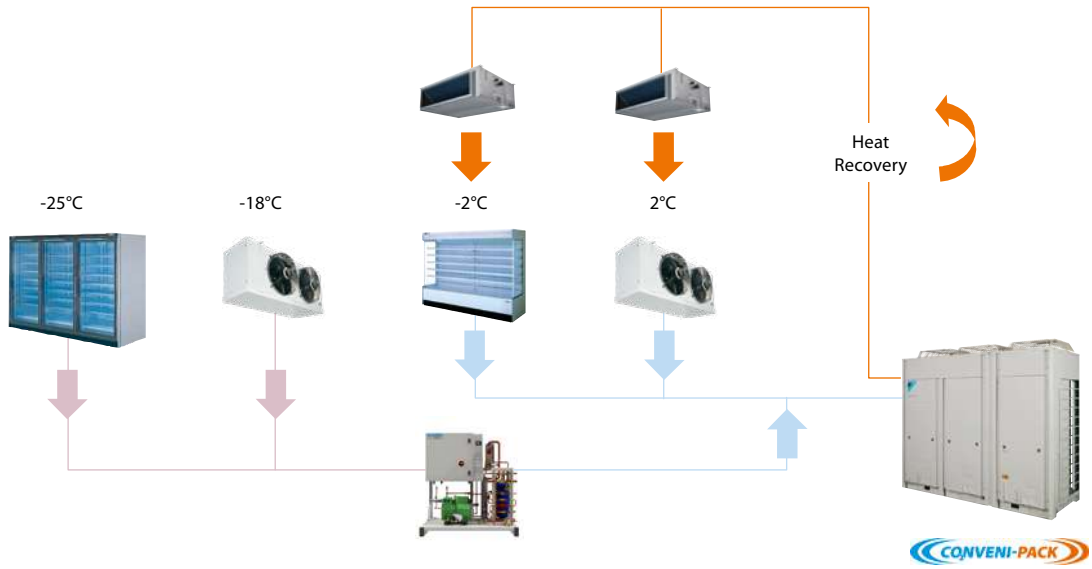


LBCLN030AY1C/W
LBCLN045AY1C/W

LBCLN085AY1C/W

CO_2 cascade capacity range NEW
(Te = -32°C, Tc = 0°C, 2K SC, 10 K SH)



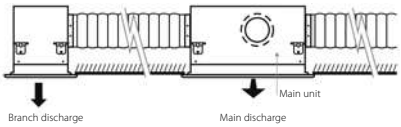


Technical Specifications				LCBLN030AY1C/W	LCBLN045AY1C/W	LCLLN085AY1C/W
Compressor	Quantity			1	1	2
	Type / Brand			Bitzer Semi-hermetic Reciprocating		
	Model			2NSL-05K-40S	2LSL-1K-40S	
	Starting method			Inverter		Inverter + ON/OFF
Dimensions	Unit	Height	mm	1,203		
		Width	mm	1,100		
		Depth	mm	616		
Weight	Unit		kg	217		260

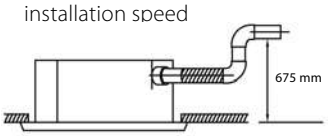
CO_2 Round Flow Cassette

360° air discharge for optimum efficiency and comfort

- Automatic filter cleaning results in higher efficiency & comfort and lower maintenance costs.
- Two optional intelligent sensors improve energy efficiency and comfort
- Widest choice ever in decoration panels: designer panels in white (RAL9010) and black (RAL9005) and standard panels in white (RAL9010) with grey louvers or full white
- Bigger flaps and unique swing pattern improve equal air distribution
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- Lowest installation height in the market: 214mm for class 20-63
- Optional fresh air intake
- Branch duct discharge allows to optimize air distribution in irregular shaped rooms or to supply air to small adjacent rooms



- Standard drain pump with 675mm lift increases flexibility and installation speed





FXFN-A



BRC1H52W,

Round flow cassette panel (7 types)
Daikin Round Flow Cassette with 360° airflow, wide flaps and optional intelligent sensors

1. Standard Panel (White & Black)



White standard



Full-White standard



Black standard

2. Auto-cleaning Panel (White & Black)



White auto cleaning



Black auto cleaning

3. Designer Panel (White & Black)



White design panel



Black design panel

FXFN-A

					FXFN-A	50	71	112
Capacity (H tap)	Cooling	Nom.		kW		5.6	8.0	12.5
	Heating	Nom.		kW		6.3	9.0	14.0
Dimensions	Unit	HeightxWidthxDepth		mm		246x840x840		288x840x840
Weight	Unit	gross		kg		29		32
		net		kg		26		29
Fan	Type					Turbo fan		
	Quantity					1		
Air flow rate	Cooling/heating		high/medium/low	m^3/h		15.5/12.8/10.7	23.2/19.4/13.8	32.7/27.6/20.6
Fan motor	Output			W				
Sound power level	Cooling			dBA		53	58	63
Sound pressure level	Cooling	high/medium/low		dBA		35/33/31 (4)	40/36/33 (4)	46/43/38 (4)
	Heating	high/medium/low		dBA		36/34/31 (1)(4)	41/37/33 (1)(4)	47/44/39 (1)(4)
Piping connection	Brazing type		Liquid	mm		9.52		
			Gas	mm		12.7		
Operation range	Indoor	Cooling		°C(WB)		14~24 (2)		
		Heating		°C(WB)		15~27		
Refrigerant	Type					R744		
Power supply	Phase/Frequency/Voltage			Hz/V		1~50/60Hz 220~240/220V		

(1) Update of sound pressure level in heating on 2.3.2020 bases on test results (for 71 and 112 class) | (2) update of Cooling max (25 -> 24°C) operation range on 2.3.2020 based on test result | (3) The panel lineup is the same as the existing machine lineup | (4) Sound of designer panel: +3dB

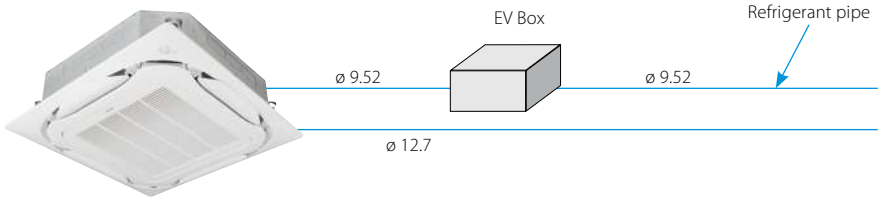
Expansion valve box

EV Box

- EV Box is the unit which include EV & Control
- 1 unit of EV box must be used toghether with 1 unit of CO_2 Cassette.



EV Box



CO_2 Cassette

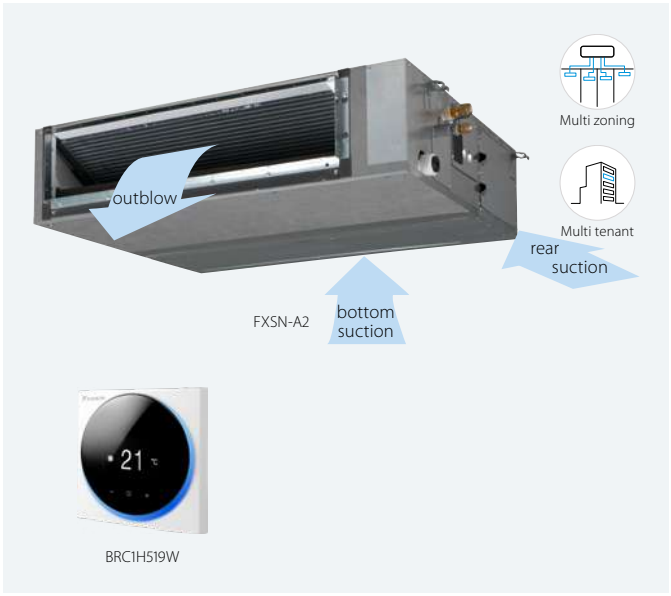
Combination with Cassette Indoor unit

Cassette indoor unit / EV Box	FXFN50A2VEB	FXFN71A2VEB	FXFN112A2VEB
BEV2N112A7V1B	✓	✓	✓

Specifications			BEV2N-A	BEV2N112A7V1B
Power supply				1~, 50/60Hz, 220~240/220V
Dimension	Height	mm		207
	Wide	mm		388
	Depth	mm		326
Mass	Unit	kg		12 (Tentative)
Refrigerant Type				R744 (CO_2)
Piping connections Liquid	Type			Brazing
	OD	mm		ø 9.52

Concealed ceiling unit with medium ESP for CO_2 Conveni-pack

To respond to all shop requirements for comfort cooling and heating, a wide range of air conditioning indoor units are available



- Slimmest unit in class, only 245mm (300mm built-in height) and therefore narrow ceiling voids are no longer a challenge



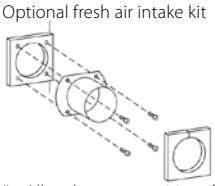
- Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- Discretely concealed in the wall: only the suction and discharge grilles are visible
- Multi zoning kit allows multiple individually-controlled climate zones to be served by one indoor unit
- Reduced energy consumption thanks to specially developed DC fan motor and drain pump
- Optional fresh air intake

Fresh air intake opening in casing



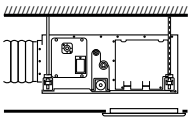
* Brings in up to 10% of fresh air into the room

Optional fresh air intake kit

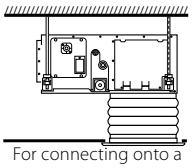


* Allow larger quantities of fresh air to be brought in

- Flexible installation: air suction direction can be altered from rear to bottom suction and choice between free use or connection to optional suction grilles

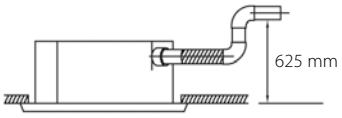


For free use into a false ceiling



For connecting onto a suction canvas (not supplied by Daikin)

- Standard built-in drain pump with 625mm lift increases flexibility and installation speed

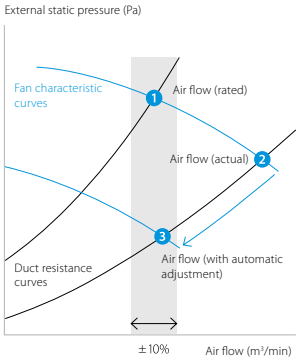


Automatic Airflow Adjustment function

Automatically selects the most appropriate fan curve to achieve the units' nominal air flow within ±10%

Why?

After installation the real ducting will frequently differ from the initially calculated air flow resistance ✳ the real air flow may be much lower or higher than nominal, leading to a lack of capacity or uncomfortable air temperature Automatic Airflow Adjustment function will adapt the unit's fan speed to any ducting automatically (10 or more fan curves are available on every model), making installation much faster



FXSN-A2

Indoor unit				FXSN	50A2	71A2	112A2
Cooling capacity	Total capacity	Nom.		kW	5.60	8.00	12.50
Heating capacity	Total capacity	Nom.		kW	6.30	9.00	14.0
Power input - 50Hz	Cooling	Nom.		kW	0.186	0.258	0.388
	Heating	Nom.		kW	0.181	0.253	0.383
Dimensions	Unit	HeightxWidthxDepth		mm	245x700x800	245x1,000x800	245x1,400x800
Weight	Unit			kg	31.0	40.0	50.0
Casing	Material				Galvanised steel plate		
Fan	Air flow rate - 50Hz	Cooling	High / Medium / Low	m^3/min	15.2/13.0/11.0	23.0/19.5/16.0	36.0/31.5/26.0
		Heating	High / Medium / Low	m^3/min	15.2/13.0/11.0	23.0/19.5/16.0	36.0/31.5/26.0
	External static pressure - 50Hz	Factory set / High		Pa	30/150	40/150	50/150
Air filter	Type				Resinnet		
Sound power level	Cooling	At high fan speed		dBA	61	63	66
Sound pressure level	Cooling	High / Medium / Low		dBA	36.0/33.0/31.0	37.0/34.0/32.0	40.0/38.0/34.0
	Heating	High / Medium / Low		dBA	38.0/35.0/32.0	39.0/36.0/33.0	42.0/40.0/38.0
Refrigerant	Type/GWP				R-744/1.0		
Piping connections	Liquid	OD		mm	9.52		
	Gas	OD		mm	12.7		
	Drain				VP20 (I.D. 20/O.D. 26), drain height 625 mm		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220		
Current - 50Hz	Maximum fuse amps (MFA)			A	16		
Control systems	Infrared remote control				BRC4C65 / BRC4C66		
	Wired remote control				BRC1H52W/S/K		

Contains fluorinated greenhouse gases

Acoustic solution for Conveni-pack

- Complete & professional housing solution, series KVD specially designed for Daikin CVP units
- Stable and storm proof construction, tested and verified by TÜV Austria
- Extremely low static pressure drop, measured by TÜV Austria
- Highest soundproofing values thanks to multi-layered sound insulation
- Already assembled ex works -> ensures very quick installation of the outdoor unit
- Base frame made of steel-profiles, insulated bottom and drain pan are standard
- Housing can be modified for an even higher dampening with additional deflection plates and hoods



KVD330-PV-UL

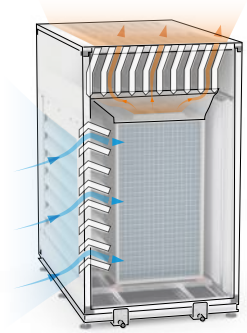


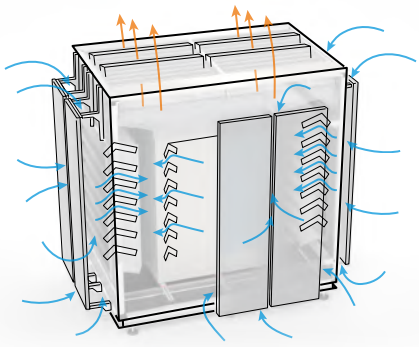
Housing with redirection hood



Housing with deflector plates







Please contact:
Kellner Engineering GmbH
kellner.r@kellner-engineering.com
www.kellner-engineering.com
Office: +43-2236-660048

suitable for 1x Daikin LRYEN10AY1 (10 HP)

acoustic housing type	external dimensions	sound dampening[1]		pressure	weight
	(HxWxD)	on average Ø	vertically	drop[2]	
Kellner KVD300-PV Standard	2,350x3,071x1,461 mm	-18 dB(A)	-13 dB(A)	< 20 Pa	850 kg
+ deflection plates (8 pc.)	2,350x3,671x1,761 mm	-21 dB(A)	-13 dB(A)	< 25 Pa	320 kg
+ redircetion hood (exhaust front)	3,100x3,671x1,761 mm	-24 dB(A)	-24 dB(A)	< 32 Pa	300 kg
Kellner KVD300-PV-UL Ultra	2,550x3,071x1,461 mm	-20 dB(A)	-18 dB(A)	< 25 Pa	875 kg
+ deflection plates (8 pc.)	2,550x3,671x1,761 mm	-23 dB(A)	-18 dB(A)	< 30 Pa	320 kg
+ redircetion hood (exhaust front)	3,300x3,671x1,761 mm	-25 dB(A)	-26 dB(A)	< 37 Pa	300 kg

suitable for 1x Daikin LRYEN10AY1 (10 HP) + 1x Daikin LRNUN5AY1 (5 HP)

acoustic housing type	external dimensions	sound dampening[1]		pressure	weight
	(HxWxD)	on average Ø	vertically	drop[2]	
Kellner KVD310-PV Standard	2,350x3,871x1,461 mm	-18 dB(A)	-13 dB(A)	< 20 Pa	975 kg
+ deflection plates (10 pc.)	2,350x4,471x1,761 mm	-21 dB(A)	-13 dB(A)	< 25 Pa	400 kg
+ redircetion hood (exhaust front)	3,100x4,471x1,761 mm	-24 dB(A)	-24 dB(A)	< 32 Pa	350 kg
Kellner KVD310-PV-UL Ultra	2,550x3,871x1,461 mm	-20 dB(A)	-18 dB(A)	< 25 Pa	1,000 kg
+ deflection plates (10 pc.)	2,550x4,471x1,761 mm	-23 dB(A)	-18 dB(A)	< 30 Pa	400 kg
+ redircetion hood (exhaust front)	3,300x4,471x1,761 mm	-25 dB(A)	-26 dB(A)	< 37 Pa	350 kg

(1) NORM EN ISO 9614-2:1997 - Determination of the sound power level of noise sources from sound intensity measurements
EN ISO 11546-1:2010 - Determination of the sound insulation of soundproofing capsules
EN ISO 717-1:2013 - Assessment of sound insulation in buildings and building components

(2) total pressure drop at maximum air-flow

Accoustic solution for Conveni-Pack

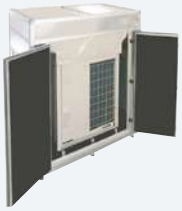
- Solflex acoustic solutions have been developed to reduce the sound emissions of outdoor units without limiting functionality.
- Nominal sound reduction measured according to DIN EN ISO 3744 by a renomated and independent laboratory.
- Exterior surfaces are standard available in RAL7016 anthracite grey, RAL9006 white aluminium, RAL9010 pure white or in galvanised steel.
- Online technical data and configuration including sound evaluation to norm accepted by many authorities to obtain building permission.
- On demand custom made acoustic solutions with site assistance including installation for large scale projects.
- Very large variety of standard acoustic solutions available for all type of HVACR units.



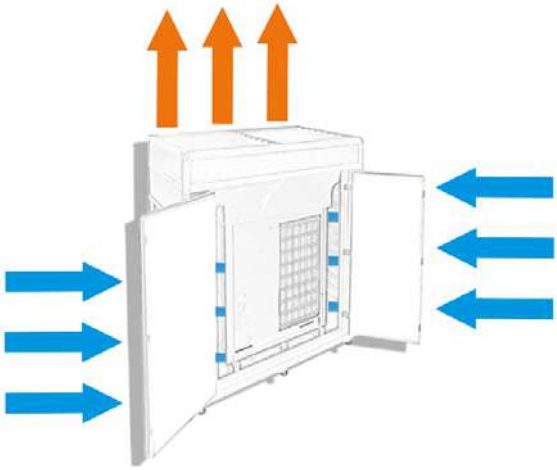
V200NA

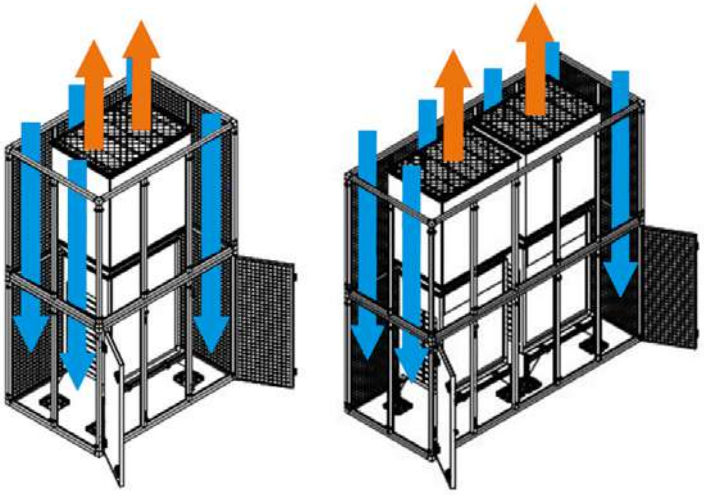


SQV200NP



XV200NA





For more info, please contact:
Solflex GmbH
office@solflex.eu
www.solflex.eu

suitable for 1x Daikin LRYEN10AY1 (10 HP)

acoustic housing type	external dimensions (HxWxD)	Nominal Sound Insulation[1]	pressure drop[2]	weight
SDW 211763-1 A	2,450x3,150x1,600 mm	Rw(Ctr, 50-5,000): 20 dB	< 5 Pa	550 kg
V 211763-2 A	2,600x3,100x1,650 mm	D(e): 19 dB(A)	<15 Pa	1,250 kg
XV 211763-3 A	2,600x3,500x1,900 mm	D(e): 23 dB(A)	<25 Pa	1,450 kg
SQVY 211763-4 A	3,800x3,150x1,600 mm	D(e): 25 dB(A)	<25 Pa	950 kg

suitable for 1x Daikin LRYEN10AY1 (10 HP) + 1x Daikin LRNUN5AY1 (5 HP)

acoustic housing type	external dimensions (HxWxD)	Nominal Sound Insulation[1]	pressure drop[2]	weight
SDW 211763-1 B	2,450x3,925x1,600 mm	Rw(Ctr, 50-5,000): 20 dB	< 5 Pa	630 kg
V 211763-2 B	2,600x3,800x1,650 mm	D(e): 19 dB(A)	<15 Pa	1,350 kg
XV 211763-3 B	2,600x4,200x1,900 mm	D(e): 23 dB(A)	<25 Pa	1,600 kg
SQVY 211763-4 B	3,800x3,925x1,600 mm	D(e): 25 dB(A)	<25 Pa	1,140 kg

(1) NORM DIN EN ISO 10140-2 - Specifies a laboratory method for measuring the airborne sound insulation of building products
DIN EN ISO 3744 - Specifies methods for determining the sound power level or sound energy level of a noise source

(2) total pressure drop at maximum air-flow

CONVENI-PACK

R-410A Conveni-Pack refrigeration system with heat recovery

Refrigeration solution for food retailers featuring award winning technology for heat recovery

- Integrates high and low temperature refrigeration and air conditioning (including heating) into one system
- By using heat recovery, optimised controls and state of the art compressor technology, Conveni-pack can reduce annual energy consumption up to 50% or more, compared to conventional systems
- Lower associated CO_2 emissions thanks to the heat pump technology
- Conveni-pack's modular design allows it to be used for smaller as well as larger shops
- The modularity of the Conveni-pack system maximises installation flexibility. Outdoor units can be grouped into blocks or rows, or distributed around the building, to meet individual installation constraints
- The heat extracted from the refrigeration showcases or evaporators can be re-used for comfort heating of the shop at no extra cost
- Low sound level including „night mode" operation



Inverter technology

Scroll compressor

LRYEQ16AY



Conveni pack, in combination with a ZEAS unit.
This store was nominated by spar as its 'local supermarket of the year', thanks in part to its owner's strategic investment in a key department: Refrigeration.
By installing a Conveni pack in combination with Zeas, it was possible to **save around €10,000 on energy costs each year**, from money that would otherwise have spent on heating. **SPAR, Supermarket.**

LRYEQ-AY

Medium Temperature Refrigeration				LRYEQ-AY	16
Cooling capacity	Air conditioning	Nom.		kW	14.0 (1)
	Refrigeration	Nom.		kW	21.8 (2)
Heating capacity	Air conditioning	Nom.		kW	27.0 (3)
	Refrigeration	Nom.		kW	21.8 (4)
Dimensions	Unit	Height		mm	1,680
		Width		mm	1,240
		Depth		mm	765
Weight	Unit			kg	370
Heat exchanger	Type				Cross fin coil
Compressor	Type				Hermetically sealed scroll compressor
	Piston displacement			m^3/h	13.34
	Speed			rpm	6,300
	Output			W	2,500
	Starting method				Direct on line (inverter driven)
	Frequency ON/OFF				Less than 6 times/hour
Compressor 2	Speed			rpm	2,900
	Output			W	3,600
Compressor 3	Speed			rpm	2,900
	Output			W	4,500
Fan	Type				Propeller fan
	Quantity				2
	Air flow rate	Cooling	Nom.	m^3/min	230
Fan motor	Output			W	750
	Drive				Direct drive
Sound pressure level	Nom.			dBA	62.0
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	-20~10
	Cooling	Ambient	Min.~Max.	°CDB	-5~43
	Heating	Ambient	Min.~Max.	°CDB	-15~21
Refrigerant	Type				R-410A
	GWP				2,087.5
	Charge			kg	11.5
				TCO_2eq	24.0
	Control				Electronic expansion valve
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/380-415

(1) Cooling priority mode: indoor temp. 27°CDB, 19°CWB; outdoor temp. 32°CDB; piping length: 7.5m; level difference: 0m (2) Cooling priority mode: evaporating temp. -10°C; outdoor temp. 32°CDB; Suction SH: 10°C (3) Heat recovery 100% mode: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; refrigeration load 18kW; piping length: 7.5m; level difference: 0m (4) Saturated temperature equivalent to suction pressure (refrigeration side): -10°C (under chilled condition); connection capacity for indoor air conditioner: 10HP, when heat recovery is 100%

Indoor units and Biddle air curtains for connection to **R-410A** Conveni-Pack

To respond to all shop requirements for comfort cooling and heating, a wide range of air conditioning indoor units and Biddle air curtains are available.

Capacity class (kW)

Model	Product name		50	63	71	80	100	125	140	200	250
Cooling capacity (kW)[1]			5.6	7.1	8.0	9.0	11.2	14.0	16.0	22.4	28.0
Heating capacity (kW)[2]			6.3	8.0	9.0	10.0	12.5	16.0	18.0	25.0	31.5
Round flow cassette	FXFQ-A		•	•		•	•	•			
2-way blow ceiling mounted cassette	FXCQ-A		•	•		•		•			
Ceiling mounted corner cassette	FXKQ-MA			•							
Concealed ceiling unit with inverter driven fan	FXSQ-A		•	•		•	•	•			
Concealed ceiling unit with inverter driven fan	FXMQ-P7		•	•		•	•	•			
Large concealed ceiling unit	FXMQ-MB									•	•
Ceiling suspended unit	FXHQ-A			•			•				
4-way blow ceiling suspended unit	FXUQ-A				•		•				
Floor standing unit	FXLQ-P		•	•							
Concealed floor standing unit	FXNQ-A		•	•							

Capacity class (kW)

Model	Product Name		80	100	125	140	200	250
Heating capacity (kW)2			7.4 - 9.2	11.6 - 13.4	15.6	16.2 - 19.9	29.4	29.4 - 31.1
Biddle air curtain free hanging	CYVS-DK		•	•	•	•	•	•
Biddle air curtain cassette	CYVM-DK		•	•	•	•	•	•
Biddle air curtain recessed	CYVL-DK		•	•	•	•	•	•

[1] Nominal cooling capacities are based on: indoor temperature: 27°CDB / 19°CWB, outdoor temperature: 35°CDB, piping length: 7.5m, level difference: 0m
[2] Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB / 6°CWB, piping length: 7.5m, level difference: 0m

Booster unit for **R-410A**

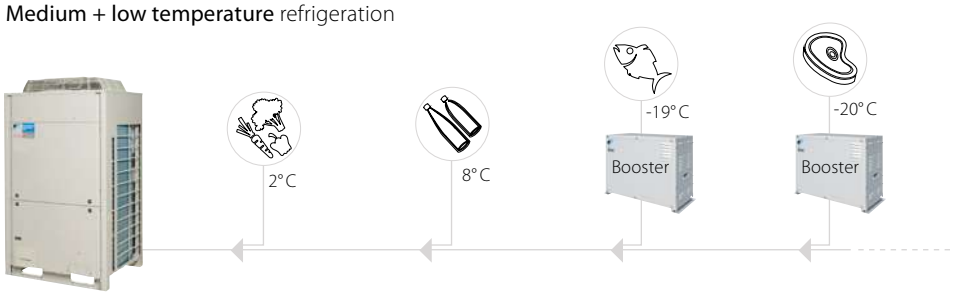
- A booster unit allows to connect freezer showcases / rooms to ZEAS and Conveni-Pack outdoor units
- Reduced piping requirements, from 4 to 2 pipes, compared to a conventional system
- Low sound mode available reducing sound emissions significantly without giving in on Refrigerating capacity



LCBKQ3AV1

Booster with ZEAS:

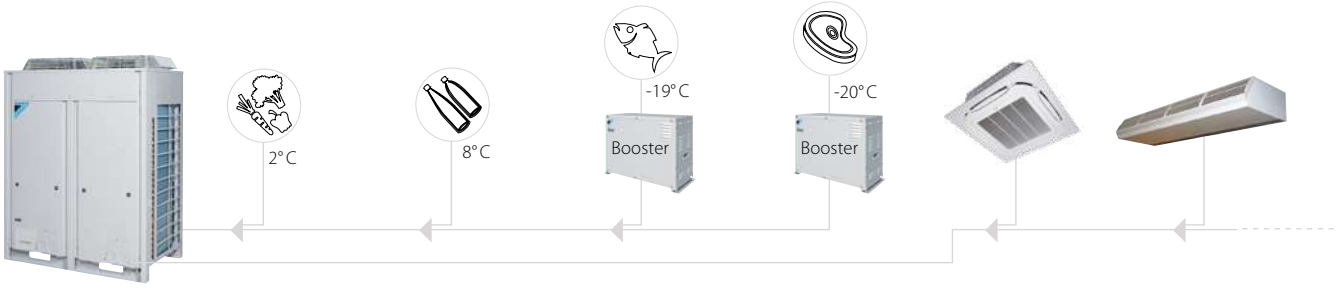
Medium + low temperature refrigeration



LCBKQ-AV1

Booster with R-410A Conveni-Pack:

Medium + low temperature refrigeration + space air conditioning + Biddle air curtain



Low Temperature Refrigeration				**LCBKQ-AV1**	**3**
Refrigerating capacity	Low temperature		Nom.	kW	3.35 (1)
Dimensions	Unit	Height		mm	480
		Width		mm	680
		Depth		mm	310
Weight	Unit			kg	47
Compressor	Type				Hermetically sealed swing compressor
	Piston displacement			m^3/h	10.16
	Number of revolutions			rpm	6,540
	Output			W	1,300
	Starting method				Direct on line (inverter driven)
	Frequency ON/OFF				Less than 6 times/hour
Fan	Type				Propeller fan
	Air flow rate	Cooling	Nom.	m^3/min	1.6
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	-45~-20
	Ambient temperature	Min.~Max.		°C	-15~43
Refrigerant	Type				R-410A
	GWP				2,087.5
	Control				Electronic expansion valve
Piping connections	For outdoor unit	Liquid	OD	mm	6.35
	To indoor unit	Liquid	OD	mm	6.35
	For indoor unit	Gas	OD	mm	15.9
	To outdoor unit	Gas	OD	mm	9.5
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240

(1) Evaporating temp. -35°C; outdoor temp. 32°C; suction SH 10K; saturated temp. to discharge pressure of booster unit -10°C



Drying and ageing units

Bi-block unit for drying and ageing of meat and cheese

For small and medium size coldrooms

- Quick and easy installation
- Low noise and vibration
- Electronic control
- Constant and detailed control of temperature and humidity level during operation
- Compact and functional, with removable panels to allow easy access to internal components
- More units available suitable for large coldrooms



Bi-block

SAS: Drying and ageing units for small and medium cold rooms
- Coldroom temperature: **+10°C to +25°C**
- Humidity: **till 60%**

SAR: Units for post-salting resting of hams for small and medium cold rooms
- Coldroom temperature: **+2°C to +4°C**
- Humidity: **till 40%**

Cooling capacity:
- from 2,900 to 15,900 Watt

		Bi-block units		
SAR		**SB.SAR212DB13SS**	**SB.SAR320DB13SS**	**SB.SAR430DB13SS**
Refrigerant		R452A		
Power supply	V/Ph~/Hz	380-400/3N~/50		
HP compressor		1.5	2	4
Defrost		Hot gas		
PED category		1		2
Working temperature	°C	+10 ÷ -5		
Range RH	%	40-60		
Cooling capacity [TC=10°C | TA=30°C]	Watt	2,900	4,500	7,250

		Bi-block units				
SAS		**SB.SAS212EB10SS**	**SB.SAS320EB10SS**	**SB.SAS430EB10SS**	**SB.SAS545EB10SS**	**SB.SAS660EB10SS**
Refrigerant		R134a				
Power supply	V/Ph~/Hz	380-400/3N~/50				
HP compressor		1	1.5	3	5	7.5
Drying	m^3	5	11	23	36	45
Drying	kg	200	400	600	950	1,200
Ageing	m^3	20	40	70	125	160
Ageing	kg	600	1,000	2,000	3,000	4,000
PED category		1		2		
Working temperature	°C	+25 ÷ +10				
Range RH	%	60-80				
Cooling capacity [TC=10°C | TA=30°C]	Watt	3,400	4,900	8,200	12,800	15,900

Air Handling Units for industrial drying

Main Characteristics

- Frascold semihermetic compressor + Thermal overload protection
- Power supply 380-400/3N~/50
- Air + Axial fan (remote)
- Embedded main electrical switchboard and remote control panel with Vision Touch controller + switch to select static/ventilated evaporator
- Hot gas defrost
- Magnetothermal switches
- Liquid line predisposition for connection to static evaporators
- Cataphoresis to the evaporator and heat recovery coil
- Remote air cooled condenser
- Soft start on centirfugal fan (starting from 15HP unit)
- Liquid Receiver + Liquid receiver shut off valves
- Safety valve
- Filter dryer
- Sight glass
- Four-pole condenser fan
- Thermostatic valve expansion
- Evaporator centrifugal fan
- Air suction duct
- Condensing unit with refrigerant charge
- Switchboard with automatic switches
- Adjustable calibration Hp switch with manual reset
- Adjustable calibration Lp switch with automatic reset
- Pressure controlled condenser fan speed regulator
- Humidity control during dehumidification with heat recovery
- Temperature control in hot with electric heaters
- Humidity control in humidification with automatic water supply
- Crankcase heater
- Fresh air intake
- Evaporator/heat recovery coil Copper/Aluminium with cataphoresis treatment
- Heat recovery coil + heating with electrical heaters
- Embedded main switchboard and remote control panel with Vision Touch Controller

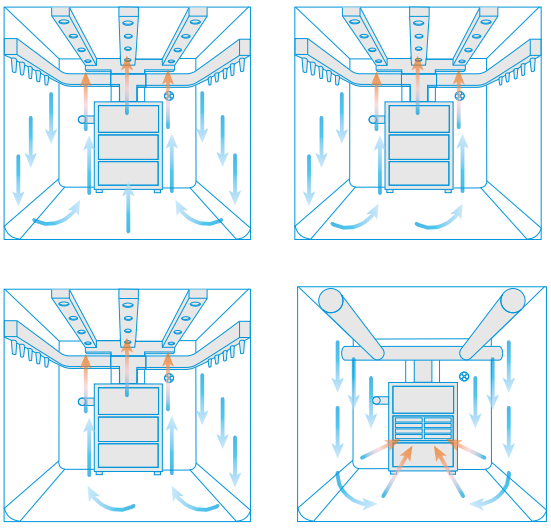


AV

Ceiling evaporator

Air distribution systems with textile channels

The UAV industrial drying units are equipped with large and efficient evaporators with centrifugal fan, capable of generating air flow from 1,500 to 14,600m^3/h.
This allows, thanks to the special galvanized sheet T-shaped ducts designed according to the room dimensions, an optimized distribution of the treated air in the room suitable for the required process.
The T-shaped ducts are complete with motorized damper.



For customized options,
please contact your sales representative.

		SB.UAV102 RBB12EAX	SB.UAV203 RBB12EAX	SB.UAV204 RBB12EAX	SB.UAV305 RBB12EAX	SB.UAV307 RBB12EAX	SB.UAV410 RBB12EAX	SB.UAV515 RBB12EAX	SB.UAV520 RBB12EAX	SB.UAV625 RBB12EAX	SB.UAV630 RBB12EAX	SB.UAV735 RBB12EAX
Refrigerant		R449A										
Power supply	V/Ph~/Hz	380-400/3N~/50										
HP compressor		2	3	4	5	7.5	10	15	20	25	30	35
Cold room volume	m^3	20	30	40	60	75	90	130	160	180	200	250
Product quantity	kg	400	800	1,200	1,600	2,000	2,400	3,200	4,800	6,400	8,000	10,000
PED category		2										
Working temperature	°C	+25 ÷ +10										
Range RH	%	60-80										
Cooling capacity [TC=10°C | TA=30°C]	Watt	7,200	10,600	13,000	14,400	27,000	33,000	38,000	45,500	59,000	68,000	87,000

Air handling units for industrial ageing

Main Characteristics

- Frascold semihermetic compressor + Thermal overload protection
- Power supply 380-400/3N~/50
- Air + Axial fan (remote)
- Embedded main electrical switchboard and remote control panel with Vision Touch controller + switch to select static/ventilated evaporator
- Hot gas defrost
- Magnetothermal switches
- Liquid line predisposition for connection to static evaporators
- Cataphoresis to the evaporator and heat recovery coil
- Remote air cooled condenser
- Soft start on centirfugal fan (starting from 15HP unit)
- Liquid Receiver + Liquid receiver shut off valves
- Safety valve
- Filter dryer
- Sight glass
- Four-pole condenser fan
- Thermostatic valve expansion
- Evaporator centrifugal fan
- Air suction duct
- Condensing unit with refrigerant charge
- Switchboard with automatic switches
- Adjustable calibration Hp switch with manual reset
- Adjustable calibration Lp switch with automatic reset
- Pressure controlled condenser fan speed regulator
- Humidity control during dehumidification with heat recovery
- Temperature control in hot with electric heaters
- Humidity control in humidification with automatic water supply
- Crankcase heater
- Fresh air intake
- Evaporator/heat recovery coil Copper/Aluminium with cataphoresis treatment
- Heat recovery coil + heating with electrical heaters
- Embedded main switchboard and remote control panel with Vision Touch Controller

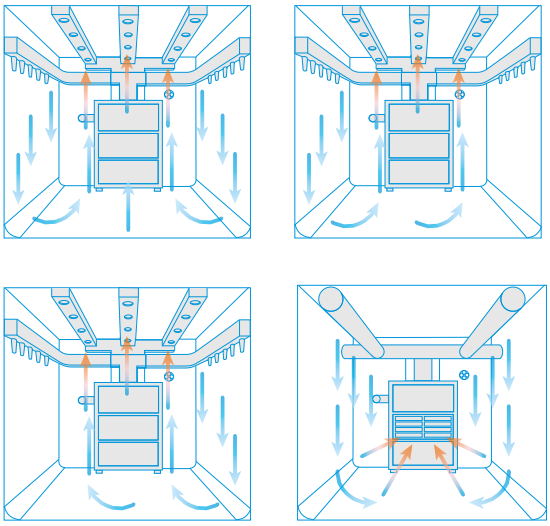


SV

Ceiling evaporator

Air distribution systems with textile channels

The USV industrial drying units are equipped with large and efficient evaporators with centrifugal fan, capable of generating air flow from 1,500 to 14,600m^3/h.
This allows, thanks to the special galvanized sheet T-shaped ducts designed according to the room dimensions, an optimized distribution of the treated air in the room suitable for the required process.
The T-shaped ducts are complete with motorized damper.



For customized options, please contact your sales representative.

		SB.USV102 RBB12EAX	SB.USV203 RBB12EAX	SB.USV204 RBB12EAX	SB.USV305 RBB12EAX	SB.USV307 RBB12EAX	SB.USV410 RBB12EAX	SB.USV515 RBB12EAX	SB.USV520 RBB12EAX	SB.USV625 RBB12EAX	SB.USV630 RBB12EAX	SB.USV735 RBB12EAX
Refrigerant		R449A										
Power supply	V/Ph~/Hz	380-400/3N~/50										
HP compressor		2	3	4	5	7.5	10	15	20	25	30	35
Cold room volume	m^3	75	90	120	180	225	240	390	490	550	680	800
Product quantity	kg	1,200	2,400	3,600	5,400	7,200	9,000	10,800	14,400	19,200	24,000	30,000
PED category		2										
Working temperature	°C	+25 ÷ +10										
Range RH	%	60-80										
Cooling capacity [TC=10°C | TA=30°C]	Watt	7,200	10,600	13,000	14,400	27,000	33,000	38,000	45,500	59,000	68,000	87,000



Accessories

for ZEAS and Conveni-Pack

		CO_2 Conveni-Pack		Conveni-Pack	ZEAS						Multi-ZEAS	
		LRYEN10AY1	LRNUN5AY1	LRYEQ16AY	LREQ5BY1	LREQ6BY1	LREQ8BY1	LREQ10BY1	LREQ12BY1	LREQ15BY1	LREQ20BY1	LREQ15BY1Rx2	LREQ20BY1Rx2
SEE NEXT PAGE Digital pressure gauge kit		-		BHGP26A1									
Pressure gauge kit		-		KHGP26B140									
Pressure Reduction Kit		EKPRV1		-									
Snowbreak hood*	(a+b+c+d) kit	KPS26C504	KPS26C160	KPS26C504	KPS26C160		KPS26C280			KPS26C504			
	a. Air outlet	KPS26C504T (left side)	KPS26C160T	KPS26C504T	KPS26C160T		KPS26C280T			KPS26C504T			
	b. Air inlet (left)	KPS26C504B	-	KPS26C504L	KPS26C504L								
	c. Air inlet (right)	KPS26C504L	KPS26C160L	KPS26C504R	KPS26C504R								
	d. Air inlet (rear)	KPS26C504R	KPS26C160R	KPS26C504B	KPS26C160B		KPS26C280B			KPS26C504B			
	Air outlet	KPS26C160T (right side)	-										
	Air inlet (rear)	KPS26C160B (right side)	-										
Central drain pan kit		-		KWC26C450**	KWC26C160		KPS26C280			KPS26C450		KPS26C450*** x2	
SEE NEXT PAGE Modbus communication kit		BRR9B1V1		BRR9A1V1								BRR9A1V1****	
Booster unit		-		LCBKQ3AV19								-	
Suction branch pipe for multi		-										EKHRQZM*****	
Refnet header		-		KHRQM22M29H8									
		-		KHRQ22M64H8									
		-		KHRQM22M75H8									
Refnet joint		-		KHRQ22M20TA8									
		-		KHRQ22M29T9									
		-		KHRQ22M64T8									
		-		KHRQ22M75T8									
intelligent Touch Controller		DSC601C51		-									
intelligent Touch Manager		DCM601A51		-									

* Snowbreak hoods are field-supplied. For technical drawings and more information, contact your dealer. It is recommended to install a snowbreak hood when regular snowfall occurs.
** In cold areas, provide a drain pan heater (field supply) to prevent drained water from freezing up in the drain pan *** required for each module
**** software update required (to be executed during commissioning) ***** mandatory

BHGP26A1

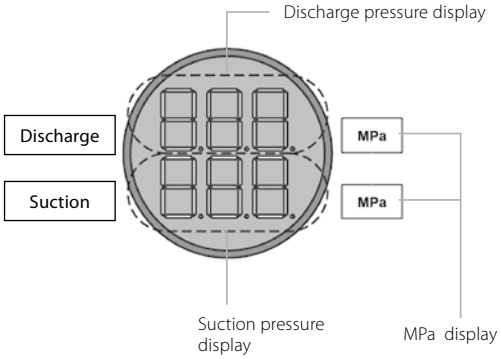
Digital pressure gauge kit

The digital measurement display allows you to diagnose a unit at a glance and it can be used with all ZEAS and R-410A Conveni-Pack systems.

- Digital measurement display for fixed installation or service applications.
- Displays high and low pressure.
- Displays error codes in the event of a fault.
- Displays up to 32 operating parameters.
- Displays error code history (last three).
- Scrolls and stores output values.
- Automatically returns to normal operating display mode.



BHGP26A1



BRR9A1V1

Modbus communication kit

The Daikin Modbus Communication Interface lets you fully integrate Daikin ZEAS and Daikin
R-410A Conveni-Pack systems with building control automation networks and other monitoring systems.

The interface allows you to read all the operational parameters and control important values using the Modbus protocol. This unifying component transforms ZEAS and Conveni-Pack into a transparent, customisable refrigeration unit and means that you can create object-specific and energy-optimised shop concepts, including remote monitoring application.

Pro interfaces can be used to connect up to 32 ZEAS units, and are also suitable for use with R-410A Conveni-Pack systems and the Booster.



BRR9AV1

Control values

- Target evaporation temperature
- Low pressure level for on and off points
- Forced stop
- Error messages can be cancelled remotely

Display values

- Model information and operating status
- Refrigerant operating pressure and temperatures
- Electrical operating data and temperatures for components
- Target values
- Fan stage and compressor frequency, operating hours
- Warning and error messages as well as system safety functions

Modbus communication kit

The Daikin Modbus Communication Interface lets you fully integrate Daikin ZEAS and Daikin CO_2 Conveni-Pack systems with building control automation networks and other monitoring systems.

The interface allows you to read all the operational parameters and control important values using the Modbus protocol on refrigeration and comfort side. This unifying component transforms CO_2 Conveni-Pack into a transparent, customisable refrigeration unit and means that you can create object-specific and energy-optimised shop concepts, including remote monitoring application.

Pro interfaces can be used to connect up to 7 CO_2 Conveni-Pack units.

BRR9B1V1



BRR9B1V1



DAIKIN

Transport Refrigeration

Transport Refrigeration

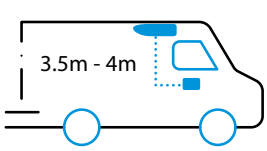
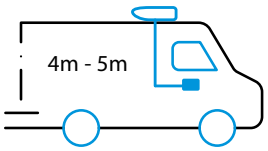
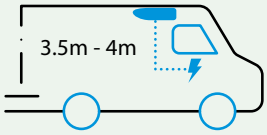
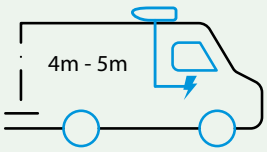


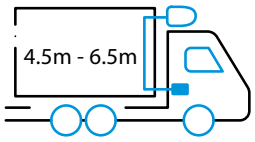
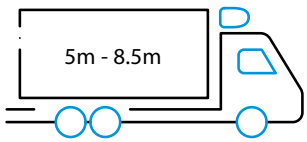
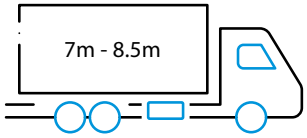
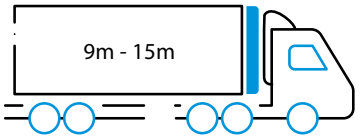

DAIKIN
E1500
EXIGO



Product Portfolio

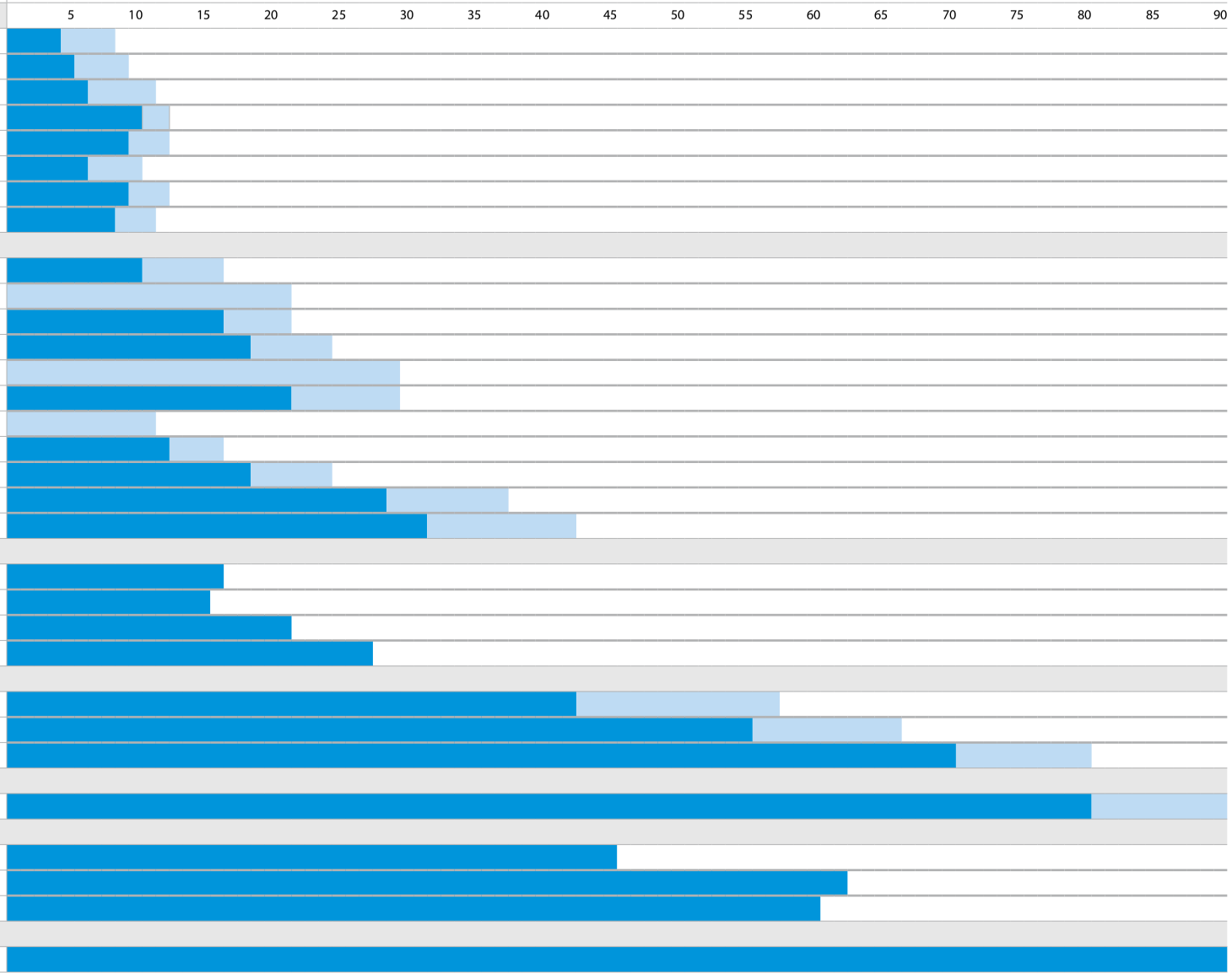
Our transport refrigeration unit range offers reliable and efficient solutions for a wide range of applications and vehicle types. Each unit is designed to minimize your total cost of ownership, configured to your exact needs, manufactured to Daikin's rigorous quality standards, and supported with a service network available 24/7.

VAN			
Direct-Drive		Electric	
Invisible Direct-Drive	**Zero Direct-Drive**	**Invisible Electric**	**Zero Electric**
			
			
SFZ007 SFZ008 SFZ009	Z200 Z250 Z350 Z380	SFZ008e SFZ009e	Z120b Z200e Z250e Z350e
			
SFZ009 Multi	Z380 Multi	SFZ009e Multi	Z350e Multi

LIGHT TRUCK	TRUCK		TRAILER
SFZ	**Uno**	**Uno Undermount**	**Exigo**
			
			
SFZ238 SFZ248	U600 U800 U1000	UN120	E1500
			
SFZ238 Multi SFZ248 Multi	U800 Multi U1000 Multi	UN120 Multi	

Selection tool for box size

Daikin Product Line	Model name	Refrigerant	Recommended Box size for 0°C [m³]	Recommended Van size for -20°C [m³]
Van Electric range				
Zero Electric	Z120b	R452A	8	4
	Z200e	R452A	9	6
	Z250e	R452A	11	7
	Z350e	R452A	12	10
	Z350e MT	R452A	12	9
Invisible Electric	SFZ008e	R452A	10	6
	SFZ009e	R452A	12	9
	SFZ009e MT	R452A	11	8
Van & Light Truck Direct Drive range				
Zero	Z200	R452A	16	10
	Z250	R134A	21	N/A
	Z250	R452A	21	16
	Z350	R452A	24	18
	Z380	R134A	28	N/A
	Z380	R452A	28	21
Invisible	SFZ007	R134A	11	N/A
	SFZ008	R452A	16	10
	SFZ009	R452A	24	18
SFZ	SFZ238	R452A	36	28
	SFZ248	R452A	42	31
Van & L. Truck Direct Drive Multi Temperature				
Zero	Z380 MT	R452A	N/A	16
Invisible	SFZ009 MT	R452A	N/A	15
SFZ	SFZ238 MT	R452A	N/A	21
	SFZ248 MT	R452A	N/A	27
Truck range				
Uno	U600	R452A	57	42
	U800	R452A	66	55
	U1000	R452A	80	70
Undermount truck range				
Uno Under	Un120	R452A	90	80
Truck Multi Temperature				
Uno	U800 MT	R452A	N/A	45
	U1000 MT	R452A	N/A	62
Uno Under	Un120 MT	R452A	N/A	60
Trailer				
Exigo	E1500	R452A	N/A	95



Note:This selection table is intended as a guide. It has been compiled using experience acquired in normal utilization of our equipment in transport and distribution.
Conformity to these recommendations should guarantee your total satisfaction.

Frozen applications

Chilled applications

Van
Direct-Drive





Invisible Direct-Drive

SFZ007 | SFZ008 | SFZ009 | SFZ009 Multi

Our Invisible range is designed for discreet and efficient transportation of refrigerated products in vans. These units are installed underneath the vehicle chassis, completely invisible from the outside, preserving the aesthetics, original height and aerodynamics of the vehicle, while reducing bodywork. SFZ007, SFZ008 and SFZ009 offer varying refrigeration capacities and volume ratings tuned for different applications. SFZ009 Multi features dual evaporators to enable products with different temperature requirements to be transported in two separate zones.

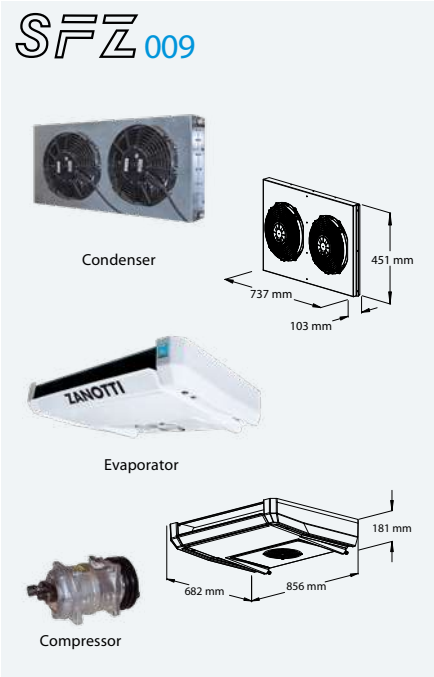
The Invisible range, with its ultra-thin dimensions make it the ideal choice for customers who need a space-saving solution. A driver-friendly interface in the cabin allows real-time monitoring and control of the unit performance to ensure the cargo is maintained at precisely the right temperature throughout the trip.

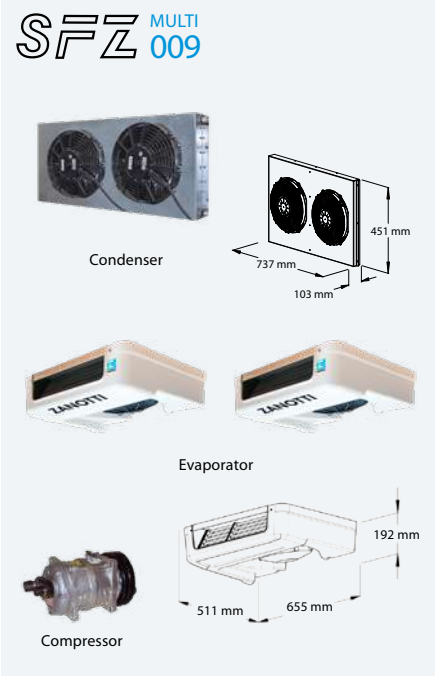
Key Features:

- ☑ Multiple temperature zones in the same vehicle (Multi model only)
- ☑ Powered by direct-drive on engine, electric stand-by
- ☑ Vehicle access to tight underground areas
- ☑ Under-chassis mounting preserves vehicle aesthetics and aerodynamics
- ☑ Invisible from the outside
- ☑ Low noise
- ☑ User-friendly cabin driver interface
- ☑ Telematics-compatible
- ☑ 2-year standard warranty









		SFZ007		SFZ008		SFZ009		SFZ009 Multi	
General									
Refrigerant	[-]	R134a		R452A					
System net cooling capacity under ATP conditions (30°C ambient temperature)									
	[°C]	0°C	-20°C	0°C	-20°C	0°C	-20°C	0°C	-20°C
Road mode	[W]	1,790	N/A	2,000	1,000	3,160	1,828	2,990	1,580
Stand-by mode	[W]	1,130	N/A	1,200	700	2,030	1,124	1,760	970
Heating capacity									
Road mode	[W]	N/A		1,890		2,790		2,640	
Stand-by mode	[W]	N/A		1,380		1,630		1,580	
Airflow rate									
Airflow rate at 100kPa static pressure	[m^3/h]	786		786		1,062		2x 620	
Weight									
Condenser without electric stand-by	[kg]	25		38		45		45	
Condenser with electric stand-by	[kg]	50		65		75		75	
Evaporator	[kg]	10		14		20.5		2x 10.2	
Road compressor									
Displacement	[cc]	146		146		163		163	

These products contain fluorinated greenhouse gases (R134a GWP=1,430 / R452A GWP=2,140.5).
Stand-by voltages available: 230/1/50 or 400/3/50
Vehicle voltages available: 12VDC or 24VDC



Zero Direct-Drive

Z200 | Z250 | Z350 | Z380

The Zero range meets the needs of the distribution industry by offering the utmost flexibility in the temperature management of refrigerated products. The extensive direct-drive Zero line-up including Z200, Z250, Z350, and Z380 is designed to meet a wide range of applications in light commercial vehicles.

All Zero models provide easy installation and serviceability. The condensing unit can be mounted on the roof or the front wall of the box, and the ultra-thin evaporator installed in the cargo compartment maximizes cargo volume. A driver-friendly interface in the cabin allows real-time monitoring and control of unit performance to ensure goods are maintained at precisely the right temperature throughout the trip. Our Zero units are setting new standards with their attractive design.

Key Features:

- ☑ Proven reliability and performance
- ☑ Powered by direct-drive on engine, electric stand-by
- ☑ Easy to install and service with removable side panels
- ☑ Configurable for a wide range of refrigerated applications in light commercial vehicles
- ☑ Low noise
- ☑ User-friendly cabin driver interface
- ☑ Reduced refrigerant charge and maintenance costs
- ☑ Telematics-compatible
- ☑ 2-year standard warranty



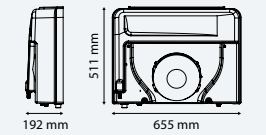
Z 200

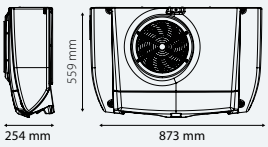


Condenser



Evaporator





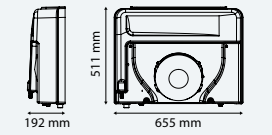
Z 250

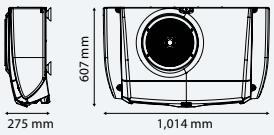


Condenser



Evaporator





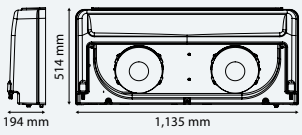
Z 350

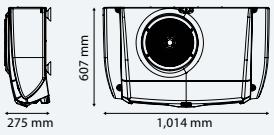


Condenser



Evaporator





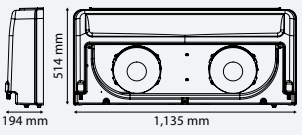
Z 380

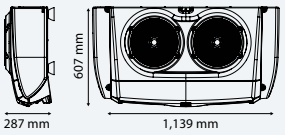


Condenser



Evaporator





		Z250	Z380	Z200	Z250	Z350	Z380
General							
Refrigerant	[-]	R134a		R452A			
System net cooling capacity under ATP conditions (30°C ambient temperature)							
	[°C]	0°C	-20°C	0°C	-20°C	0°C	-20°C	0°C	-20°C	0°C	-20°C	0°C	-20°C
Road mode	[W]	2,140	N/A	2,920	N/A	2,220	1,170	2,680	1,470	3,350	1,840	3,800	2,020
Stand-by mode	[W]	1,130	N/A	1,900	N/A	1,500	700	2,120	820	2,240	890	2,450	970
Heating capacity							
Road mode	[W]	1,930		2,620		2,100		2,500		3,100		3,300	
Stand-by mode	[W]	1,020		1,710		1,300		1,900		2,000		2,200	
Airflow rate							
Airflow rate at 100kPa static pressure	[m^3/h]	650		1,300		622		650		1,300		1,300	
Weight							
Condenser without electric stand-by	[kg]	34		40		30		36		36		42	
Condenser with electric stand-by	[kg]	70		78		56		72		72		80	
Evaporator	[kg]	9		18		10.2		10.5		19.6		19.6	
Road compressor							
Displacement	[cc]	146		163		131		131		146		146	

These products contain fluorinated greenhouse gases (R134a GWP=1,430 / R452A GWP=2,140.5).
Stand-by voltages available: 230/1/50 or 400/3/50
Vehicle voltages available: 12VDC

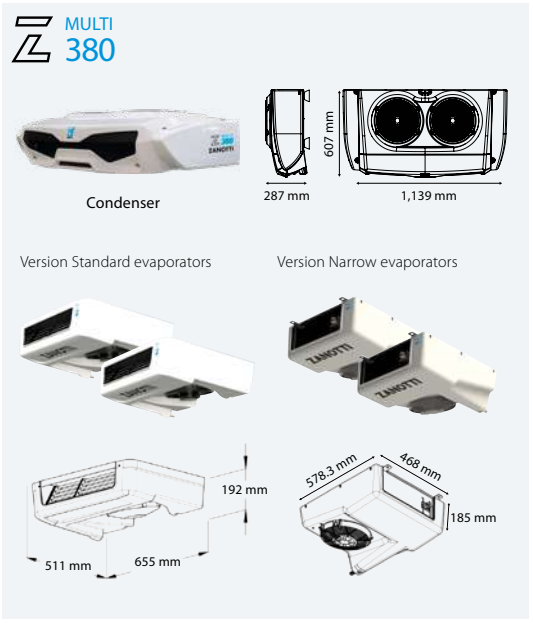
Zero Direct-Drive Multi-Temp

Z380 Multi



Z380 Multi and Z380 Multi (Narrow Evap) models are designed to meet the modern needs of low environmental impact refrigeration for light commercial vehicles. These units feature additional evaporators to enable transport of products with different temperature requirements in separate zones, available in multiple configurations to adapt to a wide range of applications.

All Zero models provide easy installation and serviceability. The condensing unit can be mounted on the roof or the front wall of the box, and the ultra-thin evaporator installed in the cargo compartment maximizes cargo volume. A driver-friendly interface in the cabin allows real-time monitoring and control of unit performance to ensure goods are maintained at precisely the right temperature throughout the trip. Our Zero units are setting new standards with their attractive design.



Key Features:

- ☑ Multiple temperature zones in the same vehicle
- ☑ Proven reliability and performance
- ☑ Powered by direct-drive on engine, electric stand-by
- ☑ Easy to install and service with removable side panels
- ☑ Configurable for a wide range of refrigerated applications in light commercial vehicles
- ☑ Low noise
- ☑ User-friendly cabin driver interface
- ☑ Reduced refrigerant charge and maintenance costs
- ☑ Telematics-compatible
- ☑ 2-year standard warranty

		Z380 Multi		Z380 Multi (Narrow Evap)	
General					
Refrigerant	[-]	R452A			
System net cooling capacity under ATP conditions (30°C ambient temperature)					
	[°C]	0°C	-20°C	0°C	-20°C
Road mode	[W]	3,265	1,655	3,250	1,310
Stand-by mode	[W]	2,030	640	2,420	1,030
Heating capacity					
Road mode	[W]	3,010		2,630	
Stand-by mode	[W]	1,770		1,520	
Airflow rate					
Airflow rate at 100kPa static pressure	[m^3/h]	2x 620		2x 830	
Weight					
Condenser without electric stand-by	[kg]	42		42	
Condenser with electric stand-by	[kg]	80		80	
Evaporator	[kg]	2x 10.2		2x 16	
Road compressor					
Displacement	[cc]	146		146	

These products contain fluorinated greenhouse gases (R452A GWP=2,140.5).
Stand-by voltages available: 230/1/50 or 400/3/50
Vehicle voltages available: 12VDC

Van
Electric





Invisible Electric

SFZ008e | SFZ009e | SFZ009e Multi

The Invisible Electric range is designed for discreet and efficient transportation of refrigerated products in vans on electric power, both on road and during stand-by. A highly reliable battery-inverter package supplies the power, making the Invisible Electric an ideal choice for full-electric, hybrid, or conventional vehicles.

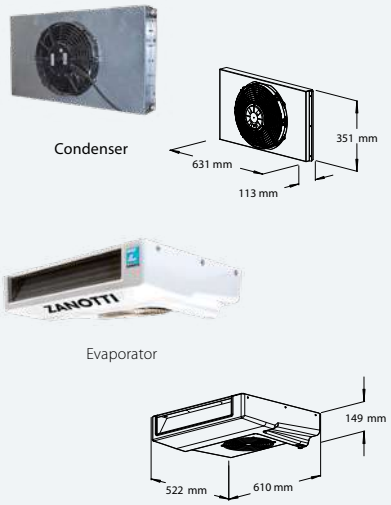
These units are installed underneath the vehicle chassis, completely invisible from the outside, preserving the aesthetics, original height and aerodynamics of the vehicle, while reducing bodywork. SFZ009e offers varying refrigeration capacities and volume ratings tuned for different applications. SFZ009e Multi features dual evaporators to enable products with different temperature requirements to be transported in two separate zones.

The Invisible range, with its ultra-thin dimensions make it the ideal choice for customers who need a space-saving solution. A driver-friendly interface in the cabin allows real-time monitoring and control of the unit performance to ensure the cargo is maintained at precisely the right temperature throughout the trip.

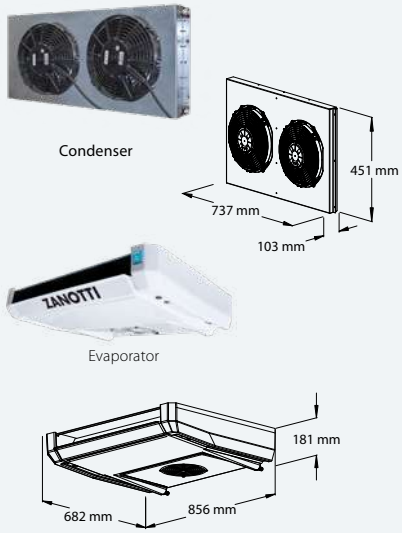
Key Features:

- ☑ Zero emissions
- ☑ Powered by reliable battery-inverter pack on road, chargeable on electric grid
- ☑ Compatible with full-electric, hybrid or conventional vehicles
- ☑ Multiple temperature zones in the same vehicle (Multi model only)
- ☑ Vehicle access to tight underground areas
- ☑ Under-chassis mounting preserves vehicle aesthetics and aerodynamics
- ☑ Invisible from the outside
- ☑ Low noise
- ☑ User-friendly cabin driver interface
- ☑ Telematics-compatible
- ☑ 2-year standard warranty

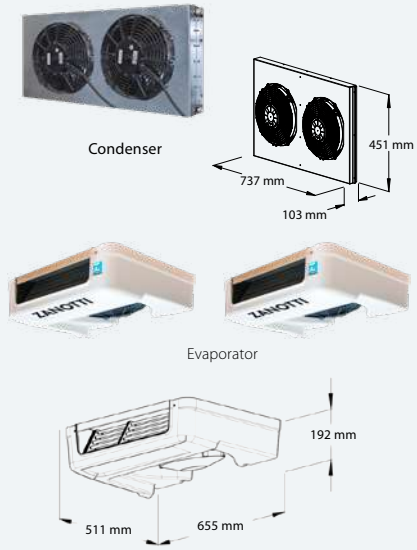
SFZ 008e



SFZ 009e



SFZ MULTI 009e



		SFZ008e		SFZ009e		SFZ009e Multi	
General							
Refrigerant	[-]	R452A					
System net cooling capacity under ATP conditions (30°C ambient temperature)							
	[°C]	0°C	-20°C	0°C	-20°C	0°C	-20°C
Battery mode	[W]	1,300	700	2,200	1,124	1,760	970
Heating capacity							
Battery mode	[W]	1,380		1,650		1,580	
Airflow rate							
Airflow rate at 100kPa static pressure	[m^3/h]	786		1,062		2x 620	
Weight							
Condenser with electric stand-by	[kg]	65		75		75	
Evaporator	[kg]	14		20.5		2x 10.2	
Max current							
	[A]	119		165		170	

These products contain fluorinated greenhouse gases (R452A GWP=2,140.5).
Stand-by voltages available: 230/1/50 or 400/3/50
Vehicle voltages available: 12VDC or 24VDC

Provisional engineering data

Zero Electric

Z120b

Z120b is powered by the vehicle battery, with minimal environmental impact and maximum cooling effectiveness ideal for refrigerated transport in vans. The unit can be installed quickly without any mechanical couplings with the vehicle engine, which also minimises power draw and thus emissions.

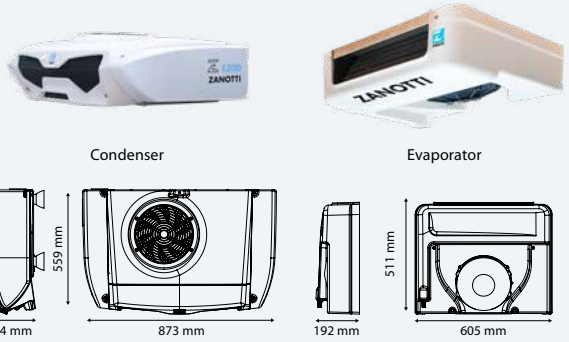
All Zero models provide easy installation and serviceability. The condensing unit can be mounted on the roof or the front wall of the box, and the ultra-thin evaporator installed in the cargo compartment maximizes cargo volume. A driver-friendly interface in the cabin allows real-time monitoring and control of unit performance to ensure goods are maintained at precisely the right temperature throughout the trip.



Key Features:

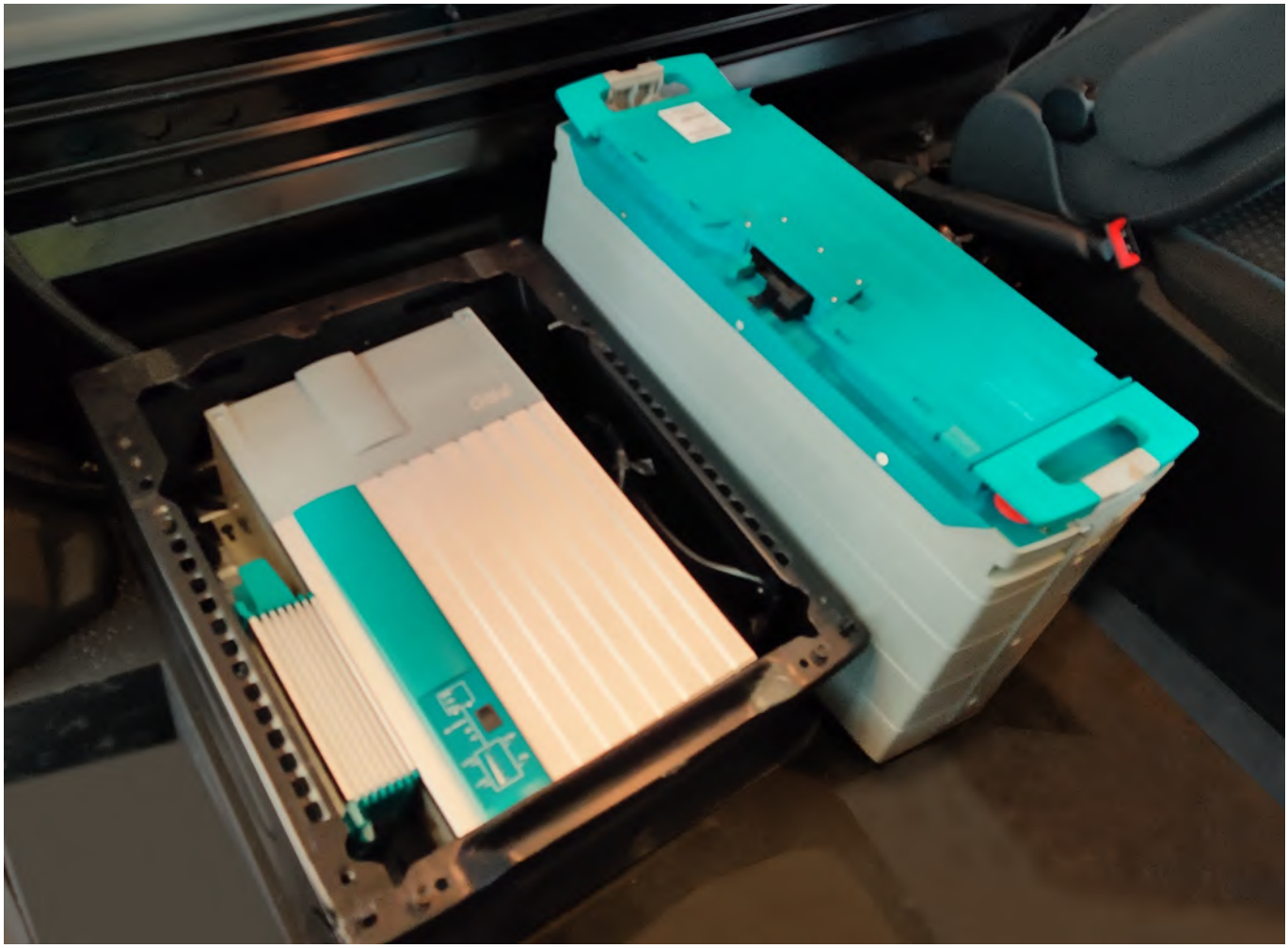
- ☑ Low emissions
- ☑ Proven reliability and performance
- ☑ Powered by vehicle battery on engine, electric stand-by
- ☑ Compatible with full-electric, hybrid or conventional vehicles
- ☑ Easy to install and service with removable side panels
- ☑ Low noise
- ☑ User-friendly cabin driver interface
- ☑ Reduced refrigerant charge and maintenance costs
- ☑ Telematics-compatible
- ☑ 2-year standard warranty, extendable up to 5 years

Z 120b



		Z120b			
General					
Refrigerant	[-]	R452A		R134A	
System net cooling capacity under ATP conditions (30°C ambient temperature)					
	[°C]	0°C	-20°C	0°C	-20°C
Battery mode	[W]	1,200	560	780	N/A
Standby mode	[W]	1,300	570	750	N/A
Heating capacity					
Battery mode	[W]	1,100		N/A	
Airflow rate					
Airflow rate at 100kPa static pressure	[m^3/h]	560		560	
Weight					
Condenser with electric stand-by	[kg]	47		47	
Evaporator	[kg]	10.2		10.2	
Max current					
	[A]	75		55	

This product contains fluorinated greenhouse gases (R452A GWP=2,140.5).
Stand-by voltages available: 230/1/50 or 400/3/50
Vehicle voltages available: 12VDC



Electric Power Supply

Our power supply packages are designed to match our Invisible Electric and Zero Electric ranges, providing a high level of reliability and customization for the specific vehicle and application needs.

The power supply can be configured as one or two DC lithium-ion batteries, each providing 1.25 to 6kW up to 12kW total; and comes with a robust inverter battery charger.



Key Features:

- ☑ Zero emissions
- ☑ Zero maintenance
- ☑ Automotive-grade design with high reliability
- ☑ Long life with 3,500 cycles
- ☑ Fast charging
- ☑ 230VAC power for charging and stand-by operation
- ☑ Bluetooth connection with smartphone app
- ☑ Compatible with telematics, for remote battery monitoring
- ☑ Optional connection to vehicle DC battery for supplementary power supply
- ☑ Optional auxiliary input for external power supply



Battery Charger
Z120b only



Inverter Battery Charger
SFZ009e / Z200e / Z250e / Z350e / Z350e Multi



Zero Electric

Z200e | Z250e | Z350e | Z350e Multi

The Zero range meets the needs of the distribution industry by offering the utmost flexibility in the temperature management of refrigerated products. Zero Electric is designed to meet a wide range of applications in light commercial vehicles on electric power, both on road and during stand-by. A highly reliable battery-inverter package supplies the power, making Zero Electric an ideal choice for full-electric, hybrid, or conventional vehicles.

Z200e, Z250e and Z350e offer varying refrigeration capacities and volume ratings tuned for different applications. Z350e Multi features additional evaporators to enable transport of products with different temperature requirements in separate zones.

All Zero models provide easy installation and serviceability. The condensing unit can be installed as top-mount on the roof of the box or nose-mount on the front wall of the box, and the ultra-thin evaporator installed in the cargo compartment maximizes cargo volume. A driver-friendly interface in the cabin allows real-time monitoring and control of unit performance to ensure goods are maintained at precisely the right temperature throughout the trip. Our Zero units are setting new standards with their attractive design.

Key Features:

- ☑ Zero emissions
- ☑ Powered by reliable battery-inverter pack on road, chargeable on electric grid
- ☑ Compatible with full-electric, hybrid or conventional vehicles
- ☑ Multiple temperature zones in the same vehicle (Multi model only)
- ☑ Proven reliability and performance
- ☑ Easy to install and service with removable side panels
- ☑ Low noise
- ☑ Configurable for a wide range of refrigerated applications in light commercial vehicles
- ☑ User-friendly cabin driver interface
- ☑ Reduced refrigerant charge and maintenance costs
- ☑ Telematics-compatible
- ☑ 2-year standard warranty



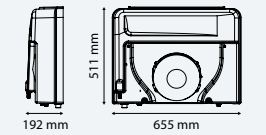
Z 200e

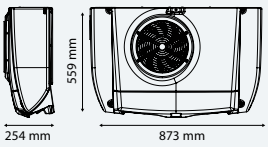


Condenser



Evaporator





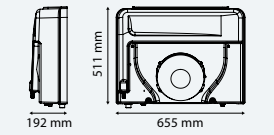
Z 250e

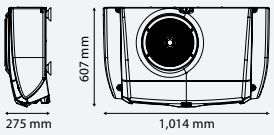


Condenser



Evaporator





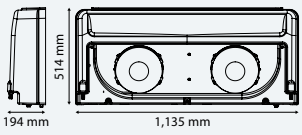
Z 350e

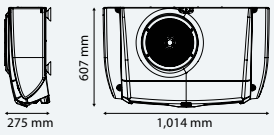


Condenser



Evaporator





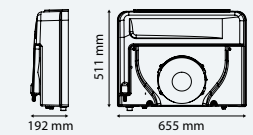
MULTI Z 380e

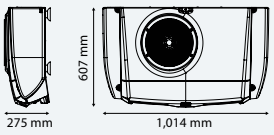


Condenser



Evaporator





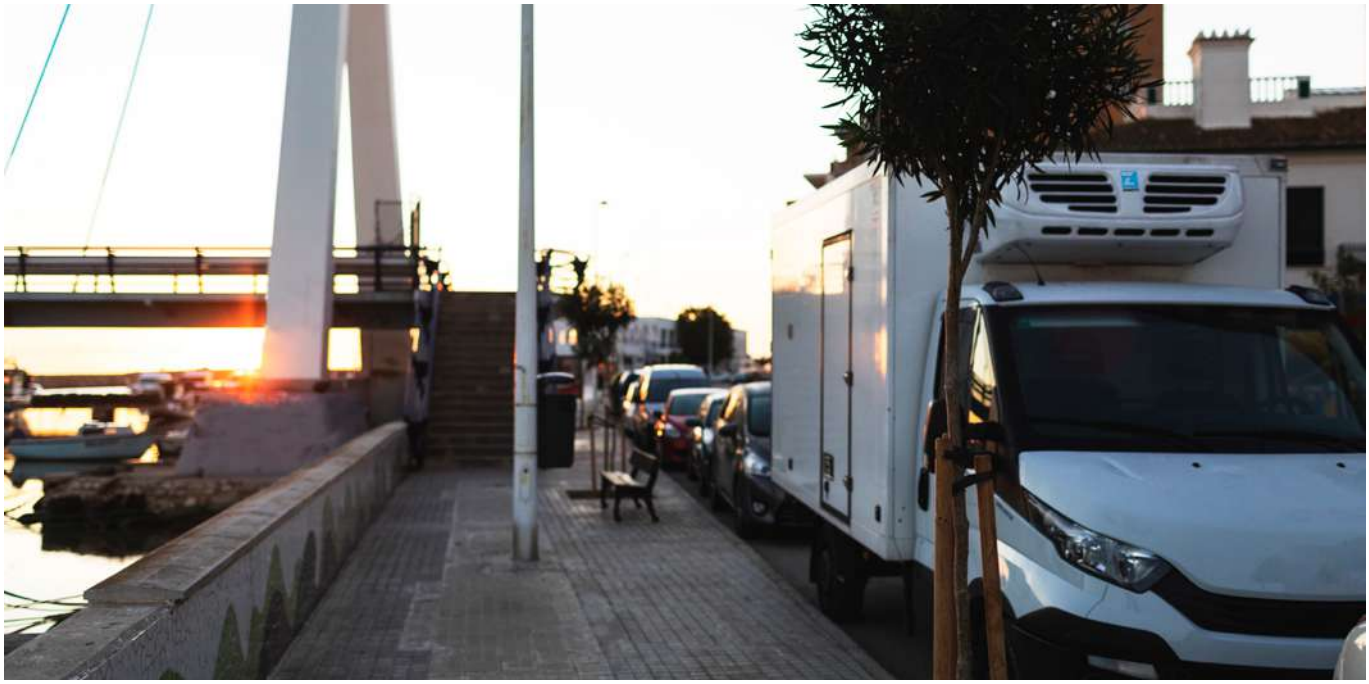
		Z200e		Z250e		Z350e		Z350e Multi	
General									
Refrigerant	[-]	R452A							
System net cooling capacity under ATP conditions (30°C ambient temperature)									
	[°C]	0°C	-20°C	0°C	-20°C	0°C	-20°C	0°C	-20°C
Battery mode	[W]	1,495	695	1,735	955	1,880	1,045	1,940	830
Heating capacity									
Battery mode	[W]	1,200		1,500		1,650		1,600	
Airflow rate									
Airflow rate at 100kPa static pressure	[m^3/h]	620		650		1,300		2x 620	
Weight									
Condenser with electric stand-by	[kg]	54		70		70		70	
Evaporator	[kg]	10.2		10.5		19.6		2x 10.2	
Max current									
	[A]	100		159		166		171	

These products contain fluorinated greenhouse gases (R452A GWP=2,140.5).
Stand-by voltages available: 230/1/50 or 400/3/50
Vehicle voltages available: 12VDC or 24VDC



Light Truck





SFZ

SFZ238 | SFZ248

SFZ is a robust direct-drive solution for refrigerated transport on light to medium trucks. It is a proven design optimized for energy-efficiency, low noise, and easy-to-service transport of temperature-controlled goods in medium sized boxes.

SFZ238 and SFZ248 are designed as nose-mount, installed on the front wall of the box, with multiple configurations of evaporators and fans to meet the requirements of a wide range of vehicle types and applications. A driver-friendly interface in the cabin allows real-time monitoring and control of unit performance to ensure goods are maintained at precisely the right temperature throughout the trip.

Key Features:

- ☑ Proven reliability and performance
- ☑ Powered by direct-drive on engine, electric stand-by
- ☑ Easy to install and service, light weight
- ☑ Low noise
- ☑ Configurable for a wide range of refrigerated applications in light to medium trucks
- ☑ User-friendly cabin driver interface
- ☑ Telematics-compatible
- ☑ 2-year standard warranty



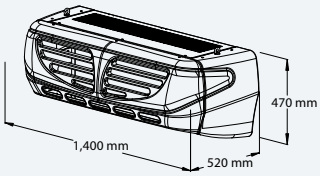
SFZ 238

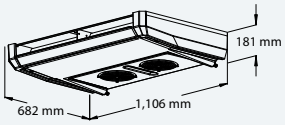


Condenser



Evaporator





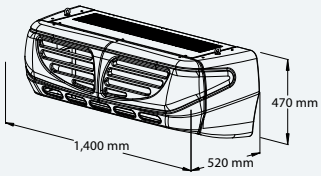
SFZ 248

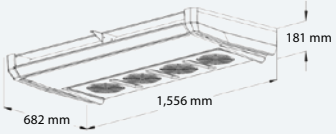


Condenser



Evaporator





		SFZ238		SFZ248	
General					
Refrigerant	[-]	R452A			
System net cooling capacity under ATP conditions (30°C ambient temperature)					
	[°C]	0°C	-20°C	0°C	-20°C
Road mode	[W]	4,700	2,470	5,100	2,570
Stand-by mode	[W]	3,830	2,010	4,405	2,005
Heating capacity					
Road mode	[W]	3,990		4,540	
Stand-by mode	[W]	3,310		2,800	
Airflow rate					
Airflow rate at 100kPa static pressure	[m^3/h]	1,670		3,340	
Weight					
Condenser without electric stand-by	[kg]	70		77	
Condenser with electric stand-by	[kg]	128		143	
Evaporator	[kg]	26.5		42.5	
Road compressor					
Displacement	[cc]	163		215	

These products contain fluorinated greenhouse gases (R452A GWP=2,140.5).
Stand-by voltages available: 230/1/50 or 400/3/50
Vehicle voltages available: 12VDC or 24VDC

SFZ Multi-Temp

SFZ238 Multi | SFZ248 Multi

Our SFZ Multi-Temp range is designed to meet the modern needs of refrigeration for light to medium trucks. These units feature additional evaporators to enable transport of products with different temperature requirements in separate zones, available in multiple configurations to adapt to a wide range of applications. It is a proven design optimized for energy-efficiency, low noise, and easy-to-service transport of temperature-controlled goods in medium-sized boxes.

SFZ238 Multi and SFZ248 Multi are designed as nose-mount, installed on the front wall of the box. A driver-friendly interface in the cabin allows real-time monitoring and control of unit performance to ensure goods are maintained at precisely the right temperature throughout the trip.

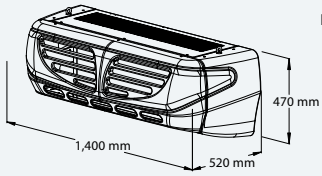
SFZ MULTI 238 SFZ MULTI 248



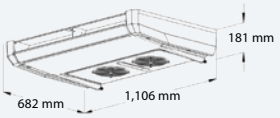
Condenser



Evaporator







Key Features:

- ☑ Multiple temperature zones in the same vehicle
- ☑ Proven reliability and performance
- ☑ Powered by direct-drive on engine, electric stand-by
- ☑ Easy to install and service, lightweight
- ☑ Low noise
- ☑ Configurable for a wide range of refrigerated applications in light to medium trucks
- ☑ User-friendly cabin driver interface
- ☑ Telematics-compatible
- ☑ 2-year standard warranty

		SFZ238 Multi		SFZ248 Multi	
General					
Refrigerant	[-]	R452A			
System net cooling capacity under ATP conditions (30°C ambient temperature)					
	[°C]	0°C	-20°C	0°C	-20°C
Road mode	[W]	4,240	2,135	5,080	2,560
Stand-by mode	[W]	3,570	1,635	4,130	2,020
Heating capacity					
Road mode	[W]	3,850		4,430	
Stand-by mode	[W]	3,230		3,610	
Airflow rate					
Airflow rate at 100kPa static pressure	[m^3/h]	2x 835		2x 1,670	
Weight					
Condenser without electric stand-by	[kg]	70		77	
Condenser with electric stand-by	[kg]	128		143	
Evaporator	[kg]	2x		2x	
Road compressor					
Displacement	[cc]	163		215	

These products contain fluorinated greenhouse gases (R452A GWP=2,140.5).
Stand-by voltages available: 230/1/50 or 400/3/50
Vehicle voltages available: 12VDC or 24VDC

Truck





Uno

U600 | U800 | U1000

The redesigned Uno range of units are independently powered with a diesel engine, and available in various capacities to efficiently transport temperature-controlled products in medium to heavy trucks. The Uno features Zanotti's innovative direct coupling design between the engine and the compressor, and utilize Daikin's expertise in design for reliability and performance. Their high cooling performance, energy efficiency and extended maintenance intervals minimise the total cost of ownership, while meeting the most stringent emission, material waste, and noise pollution regulations.

U600, U800, and U1000 are designed as nose-mount, installed on the front wall of the box. The electronics enabled advanced diagnostics. A robust interface in the cabin can be installed in the vehicle DIN slot or mounted on the dash, allowing real-time monitoring and control of unit performance to ensure goods are maintained at precisely the right temperature throughout the trip.

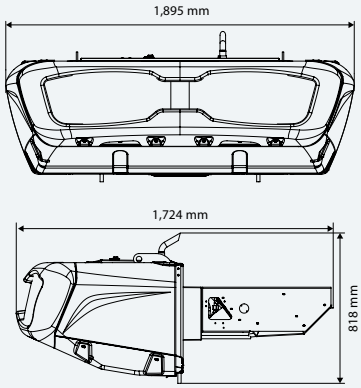
Key Features:

- ☑ Designed for high reliability with a custom Yanmar engine
- ☑ Innovative powertrain design enabling high performance and energy efficiency
- ☑ Reduced fuel consumption and noise
- ☑ Extended maintenance intervals
- ☑ 2-year standard warranty



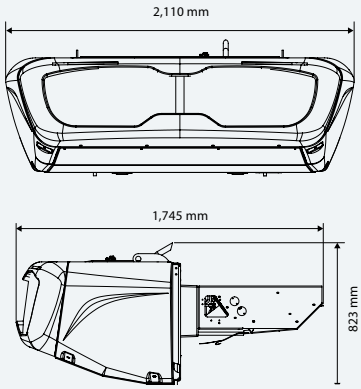
U600





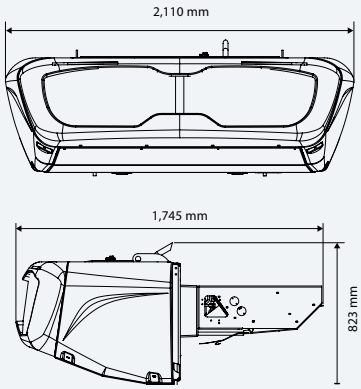
U800





U1000





		U600		U800		U1000	
General							
Refrigerant	[-]	R452A					
Defrost	[-]	Hot gas defrost					
System net cooling capacity under ATP conditions (30°C ambient temperature)							
	[°C]	0°C	-20°C	0°C	-20°C	0°C	-20°C
Road mode	[W]	6,200	3,200	8,600	4,700	10,000	5,700
Stand-by mode	[W]	3,700	1,700	6,500	3,500	8,300	4,500
Heating capacity							
Road mode	[W]	5,400		7,500		8,700	
Stand-by mode	[W]	3,200		5,700		7,200	
Airflow rate							
Airflow rate at 100kPa static pressure	[m^3/h]	1,500		2,200		2,500	
Air Throw	[m]	6.5		7.5		8.5	
Weight							
Monoblock road and stand-by	[kg]	485		500		549	
Monoblock road-only	[kg]	435		455		504	
Diesel engine							
Displacement	[cc]	854		1,116		1,116	
Rated power output	[kW]	11.5		15.1		15.1	
Maintenance interval	[hrs]	2,000		2,000		2,000	
Road compressor							
Displacement	[cc]	235		325		390	
Stand-by compressor							
Displacement	[m^3/h]	11.3		14.4		21.4	

These products contain fluorinated greenhouse gases (R452A GWP=2,140.5).
Stand-by voltages available: 400/3/50



Uno

U800 Multi | U1000 Multi

The redesigned Uno range of units are independently powered with a diesel engine, and available in various capacities to efficiently transport temperature-controlled products in medium to heavy trucks. The Uno features Zanotti's innovative direct coupling design between the engine and the compressor, and utilise Daikin's expertise in design for reliability and performance. Their high cooling performance, energy efficiency and extended maintenance intervals minimise the total cost of ownership, while meeting the most stringent emission, material waste, and noise pollution regulations.

U800 Multi and U1000 Multi are designed as nose-mount, installed on the front wall of the box, with multiple configurations of evaporators and fans to meet the requirements of a wide range of vehicle types and applications. The electronics enabled advanced diagnostics. A robust interface in the cabin can be installed in the vehicle DIN slot or mounted on the dash, allowing real-time monitoring and control of unit performance to ensure goods are maintained at precisely the right temperature throughout the trip.

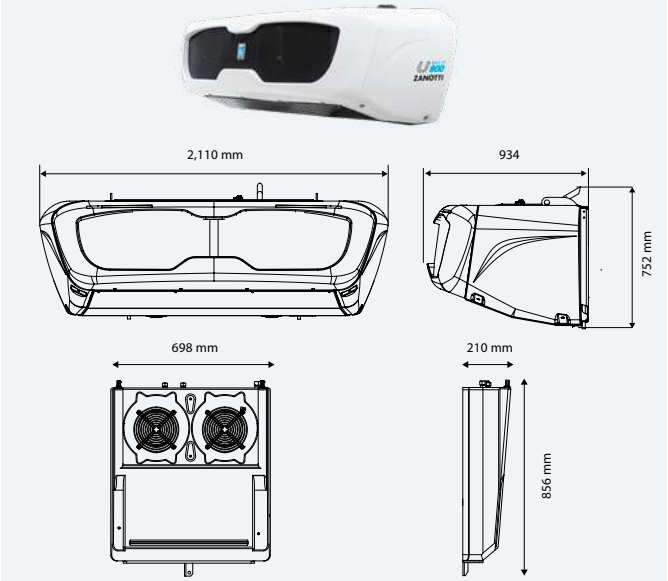
Key Features:

- ☑ Multiple temperature zones in the same vehicle
- ☑ Designed for high reliability with a custom Yanmar engine
- ☑ Innovative powertrain design enabling high performance and energy efficiency
- ☑ Reduced fuel consumption and noise
- ☑ Extended maintenance intervals
- ☑ 2-year standard warranty, extendable up to 5 years

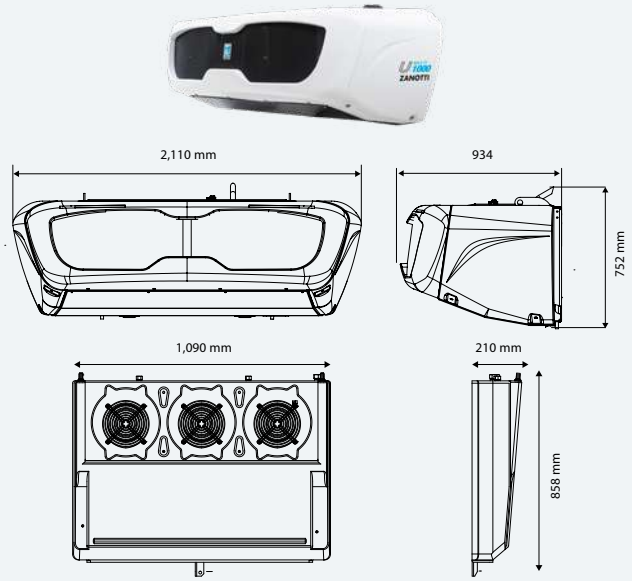


The all-new Uno cabin controller is modern technology in a robust build.

U MULTI 800



U MULTI 1000



		U800 Multi		U1000 Multi	
General					
Refrigerant	[-]	R452A			
Defrost	[-]	Hot gas defrost			
System net cooling capacity under ATP conditions (30°C ambient temperature)					
	[°C]	0°C	-20°C	0°C	-20°C
Road mode	[W]	7,970	4,140	9,800	5,400
Stand-by mode	[W]	6,050	3,075	8,700	4,500
Heating capacity					
Road mode	[W]	7,300		8,500	
Stand-by mode	[W]	4,900		7,600	
Airflow rate					
Airflow rate at 100kPa static pressure	[m^3/h]	2x 1,680		2x 2,520	
Air Throw	[m]	7.5		8.5	
Weight					
Split road and stand-by	[kg]	500		505	
Monoblock road-only	[kg]	460		465	
Evaporator	[kg]	35x2		40x2	
Diesel engine					
Displacement	[cc]	1,116		1,116	
Rated power output	[kW]	13.2		13.2	
Maintenance interval	[hrs]	2,000		2,000	
Road compressor					
Displacement	[cc]	325		390	
Stand-by compressor					
Displacement	[m^3/h]	14.4		21.4	

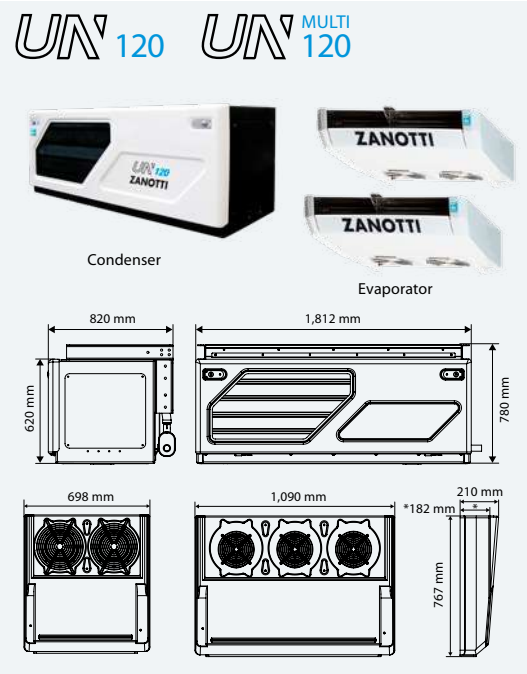
These products contain fluorinated greenhouse gases (R452A GWP=2,140.5).
Stand-by voltages available: 400/3/50

Uno Undermount

UN120 | UN120 Multi

Uno Undermount models are independently powered with a diesel engine, and available in various capacities to efficiently transport temperature-controlled products in heavy trucks. The units feature Zanotti's innovative direct coupling design between the engine and the compressor.

UN120 and UN120 Multi are undermount units designed to be installed under the box. UN120 Multi features additional evaporators to enable transport of products with different temperature requirements in separate zones. A driver-friendly interface in the cabin enables them to monitor and modify performance to ensure it is kept at precisely the right temperature throughout the trip.



Key Features:

- ☑ Multiple temperature zones in the same vehicle (Multi model only)
- ☑ Designed for high reliability with a custom Yanmar engine
- ☑ Innovative powertrain design enabling high performance and energy efficiency
- ☑ Reduced fuel consumption and noise
- ☑ 2-year standard warranty

		UN120		UN120 Multi	
General					
Refrigerant	[-]	R452A			
Defrost	[-]	Hot gas defrost			
System net cooling capacity under ATP conditions (30°C ambient temperature)					
	[°C]	0°C	-20°C	0°C	-20°C
Road mode	[W]	11,500	6,200	10,600	5,700
Stand-by mode	[W]	8,200	4,200	7,500	3,900
Heating capacity					
Road mode	[W]	10,000		9,500	
Stand-by mode	[W]	7,100		6,700	
Airflow rate					
Airflow rate at 100kPa static pressure	[m^3/h]	4,500		2x 2,520	
Air Throw	[m]	> 8.5		> 8.5	
Weight					
Condensing unit road and stand-by	[kg]	510		510	
Condensing unit road-only	[kg]	475		475	
Evaporators	[kg]	40		40x2	
Diesel engine					
Displacement	[cc]	1,116		1,116	
Rated power output	[kW]	13.2		13.2	
Maintenance interval	[hrs]	2,000		2,000	
Road compressor					
Displacement	[cc]	390		390	
Stand-by compressor					
Displacement	[m^3/h]	21.4		21.4	

These products contain fluorinated greenhouse gases (R452A GWP=2,140.5).
Stand-By voltages available: 400/3/50

Provisional engineering data

Trailer





Exigo

E1500

Daikin Exigo is the new benchmark in trailer refrigeration – built for the needs of today, and the challenges of tomorrow.
Every aspect of Exigo has been designed to provide high performance, energy-efficient and reliable transport of refrigerated cargo. It is the next generation in trailer refrigeration, being engine-powered, and compatible with battery technologies.

Key Features:

- ☑ Unique electric architecture with Daikin inverter technology providing 15kW true capacity both on engine and electric power
- ☑ Variable-speed compressor and fans for maximum pull-down performance and energy efficiency
- ☑ Reduced maintenance downtime with industry leading service intervals (3,000 hours as standard)
- ☑ Low noise as standard
- ☑ Ease of unit operation with high resolution graphical user interface
- ☑ Daikin components with proven reliability and a lightweight design
- ☑ GDP-compliant, supporting cold chain integrity of pharmaceuticals and medicinal products
- ☑ Telematics with 2-year subscription included as standard
- ☑ EMEA sales and service network backed by Daikin



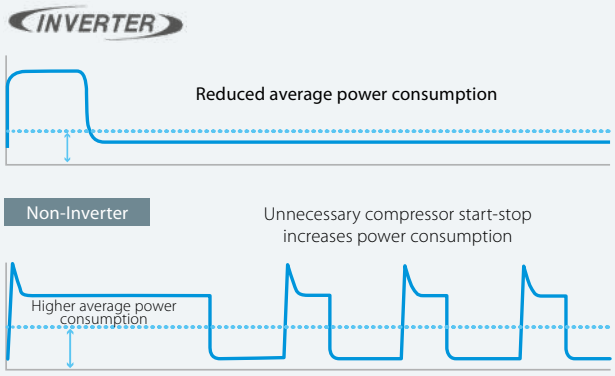
High resolution graphical user interface



Advanced telematics included as standard

EXIGO





GDP Compliant

Specifications		E1500
Cooling capacity 30/0°C - Engine & Electric	[W]	14,900
Cooling capacity 30/-20°C - Engine & Electric	[W]	9,200
Heating capacity -20/+2°C - Engine & Electric	[W]	10,500
Air Flow rate evaporator at max pulldown	[m^3/h]	5,500
Air throw	[m]	15
Engine		Kubota Custom Diesel Engine 1,500 cc / 4 Cylinders NRMM Stage V Compliant
Generator		15kW / 400V 3P 50Hz / Direct Drive
Compressor		Custom scroll compressor | economizer | inverter
		Variable speed
Variable speed components		Compressor | Evaporator fans | Condenser Fans
Controller		Daikin PCB
User interface		7" High Resolution LCD
Temperature zones		Single
Refrigerant		R-452A
Total net weight	[kg]	730
Unit Dimensions WxHxD	[mm]	2,072x2,227x440
Connectivity		Telematics as Standard with 2-Year Subscription Included
Pharma		Certicold GDP certification

Power supply		
Voltage	[V]	400
Phase		3P+N
Frequency	[Hz]	50

Exigo Accessories

Solar Panel

Key Features:

- ☑ Extends Exigo 12V battery life and efficiency
- ☑ Improves fuel efficiency by charging the 12V battery
- ☑ Keeps telematics active during long standby



Specifications		Solar Panel
Power	[W]	138
Weight	[Kg]	1.8
Length	[mm]	1,363
Width	[mm]	546
Thickness	[mm]	2

Datalogger

Key Features:

- ☑ Enables independent cold chain monitoring
- ☑ Includes 2 temperature sensors extendable to 6
- ☑ Includes integrated printer



Exigo Service Offerings

Telematics

Real time management of your fleet is part of Exigo's standard offering, as the unit comes with 2-year telematics included as standard. Our platform provides a comprehensive set of features developed together with fleet managers, and ensures continuous improvement of your Exigo units with the over the air updates.

Features
- Real-time GPS tracking
- Intuitive geolocator interface based on Google Maps
- Real-time monitoring of setpoint, cargo area and outside temperature
- Temperature setpoint management with two-way communication
- Unit status monitoring including engine information
- Operational and location alarms, with push notifications
- Reports of events, alarms, and usage statistics
- Virtual HMI with full control
- Over-the-air software update
- Accessible via computer, tablet or smartphone
- 4G LTE connectivity, all Europe roaming
- Integration with your existing fleet management software
- Usage data provided to Daikin for product improvement purposes



24/7 Breakdown Support

Daikin provides peace of mind across Europe by a 24/7 support line, in order to resolve emergency breakdowns with minimum hassle. Our support specialists will arrange everything from locating the nearest service location to handling payments on behalf of the customer.

Features
- One phone number across Europe: 24/7 +3259552477
- Available in 9 languages, for the convenience of fleet managers and drivers: English (default), Dutch, French, German, Italian, Polish, Romanian, Spanish and Turkish
- Support specialists will arrange locating the nearest available service workshop
- Unit service history available to support specialists
- Support specialists will arrange communication of the technical issue with the service workshop, breaking the language barrier
- No payment or paperwork for issues covered under warranty or extended warranty

Exigo Service Contracts	0- 2 Years	3+ Years
Warranty	Included	Optional Extended Warranty (Requires Telematics and Maintenance Plan)
Telematics	Included	Optional
Planned Maintenance	Optional	Optional
24/7 Breakdown Support	Optional	Optional

Planned Maintenance

Daikin planned maintenance contract makes sure your unit is always in top operational condition through our authorized service network, maximizin g the value of your investment.

Features
- Execution of planned maintenance per Exigo user manual
- No additional charge, including parts and labor
- No payments or paperwork needed for the intervention
- Unit service history digitally available to all authorized service partners across Europe
- By appointment, can be performed by any authorized service partner across Europe

Extended Warranty

Protect your asset beyond the standard 2-year warranty, with Daikin's extended warranty contract.

Features
- Every Exigo is already covered under 2-year warranty including parts and labor
- Extended warranty extend the parts and labor coverage to 3 years and beyond
- No payments or paperwork needed for the intervention
- Unit service history digitally available to all authorized service partners across Europe
- Can be performed by any authorized service partner across Europe

Service Network



Our continuously growing European service network, extending to over 300 authorized service partners, enabled by Daikin to provide repair and maintenance services for our van, truck, and trailer units. Our service partners always apply our genuine spare parts, engineered to ensure maximum performance and reliability. Utilising the authorized service partners and genuine parts is the only way to protect your investment under Daikin warranty and minimise total cost of ownership.



Our Partner Locator





Connect with Daikin

If you are a user or installer it is important you can **interact with our systems** in the easiest way, from **anywhere you are**. For any user our interfaces create **peace of mind** that their system is running in the best possible way.

Depending on the type of user and application Daikin develops controls and cloud services to ensure the best experience.

- For home owners it means **app and voice control** of their home comfort.
- For hotel owners it means easy and stylish **personal control for guests**, with an integration in hotel booking software for central control
- For technical managers it means **cloud access** to all sites, with the possibility to benchmark, optimize performance
- For installers it means **easy transfer of settings during commissioning**, remote retrieval of errors and preventive alerts to save time on maintenance or interventions

Our controls enable you to **connect with your customer**, save time, improve your comfort intelligently and reduce energy bills.



White Silver Black



DAIKIN CLOUD PLUS

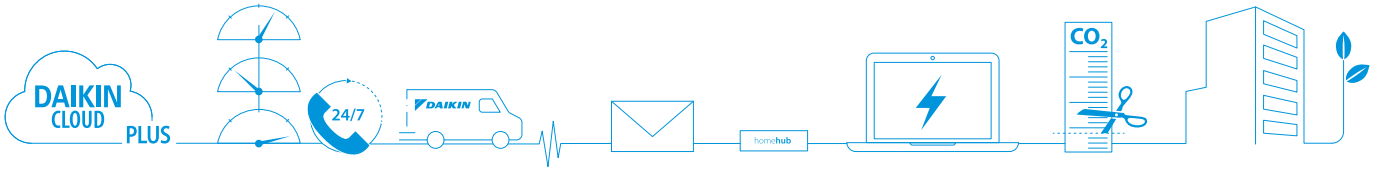






homehub

Remote monitoring



Control Systems

Application overview 954

Individual control systems 958

- Onecta App 958
- Daikin HomeHub - Home Energy Management NEW 962
- Daikin Cloud Service Residential 965
- Madoka wired remote controller 970
- Individual wireless room controllers 974
- Multi zone controller 978
- Daikin mAP 980

Centralised control systems 982

- Centralised remote controller / Unified ON/OFF controller 982
- intelligent Touch Controller 983
- intelligent Tablet Controller 984
- intelligent Touch Manager 986
- Daikin Cloud Plus NEW 988
- intelligent Chiller Manager 994

Standard protocol interfaces 998

- Individual Modbus Interface 998
- KNX Interface 1002
- PMS Interface for hotels 1003
- BACnet Interface 1004
- LonWorks Interface 1005

Daikin on Site (DoS) 1006

Indoor Environmental Sensor 1010

Daikin Configurator Software 1012

- EKPCCAB4 1012

Other devices 1013

- Wireless room temperature sensor 1013
- Wired room temperature sensor 1013
- Other integration devices 1014

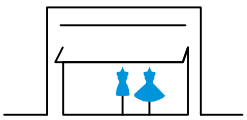
Options & Accessories 1015

Control solutions summary

Daikin offers various control solutions adapted to the requirements of even the most demanding commercial application.

- Basic control solutions for those customers with few requirements and limited budget
- Integrating control solutions for those customers who would like to integrate Daikin units into their existing BMS system
- Advanced control solutions for those customers who expect Daikin to deliver a mini BMS solution, including advanced energy management

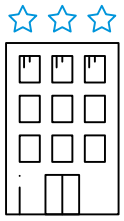
Shop



	Unit control		Integrating control				Advanced control			
										
	BRP069*	BRC1H52 W7/S7/K7	RTD-20	EKMBPP1A	KLIC DI V2	EKMBDXB	DCC601A51	DCM601B51	DGE601A51	DGE602A51
	Smartphone control for up to 50 indoor units	1 remote controller for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)	Two additional probes can be connected	1 gateway for max. 64 indoor unit(s) (groups) & 10 outdoors	1 unit for 32 indoor unit(s)	1 iTM for 64 indoor unit(s) (groups) (1)	Up to 512 units with extension modules via Daikin Cloud Plus	Max 64 units via Daikin Cloud Plus
Automatic control of A/C	•	•	•	•	•	•	•	•	•	•
Limit control possibilities for shop staff	•	•	•	•	•	•	•	•	•	•
Create zones within the shop			•				•	•	•	•
Interlock with eg. Alarm, PIR sensor			•				• (limited)	•	•	•
Integration into smart home systems	• (5)									
Integrate Daikin units into existing BMS via Modbus			•	•		•				
Integrate Daikin units into existing BMS via KNX					•					
Integrate Daikin units into existing BMS via HTTP								•		
Monitor energy consumption	• (3)							•	•	•
Advanced energy management								•	•	•
Allows free cooling								•		
Voice control	• (4)									
Integrate Daikin products cross pillars into Daikin mini- BMS								•	•	
Integrate third party products into Daikin mini-BMS								•	•	•
Online control	•							• (2)	•	•
Manage multiple sites									•	•

(1) 7 iTM plus adapters (DGE601A52 and DGE601A53) can be added to have 512 indoor groups and 80 outdoor (systems) | (2) Through own IT set-up (not Daikin cloud server) | (3) Not available on all indoors | (4) Only for BRP069C51, connection to Google Assistant and Amazon Alexa | (5) Only for BRP069C51, contact your local sales representative for an overview of available services.

Hotel

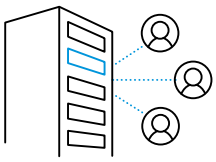


	Unit control	Integrating control		Advanced control			
							
	BRC1H52 W7/S7/K7	RTD-20	KLIC DI V2	DCM010A51	DCM601B51	DGE601A51	DGE602A51
	1 remote controller for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)	Two additional probes can be connected	1 interface for up to 2,500 indoor units	1 iTM for 64 indoor unit(s) (groups) (1)	Up to 512 units with extension modules via Daikin Cloud Plus	Max 64 units via Daikin Cloud Plus
Hotel guest can control & monitor basic functionalities from his room	•						
Limit control possibilities for hotel guests	•	•	•	•	•	•	•
Interlock with window contact		•			•	•	•
Interlock with key-card		•			•	•	•
Integrate Daikin units into existing BMS via Modbus		•					
Integrate Daikin units into existing BMS via KNX			•				
Integrate Daikin units into existing BMS via HTTP				•			
Integrate Daikin unit control in hotel booking software				•			
Oracle Opera PMS				•			
Monitor energy consumption					•	•	•
Advanced energy management					•	•	•
Integrate Daikin products cross pillars into Daikin mini- BMS					•	•	
Integrate third party products into Daikin mini-BMS					•	•	•
Online control					•	•	•

(1) 7 iTM plus adapters (DGE601A52 and DGE601A53) can be added to have 512 indoor groups and 80 outdoor (systems)

For more information how to apply our controllers in different applications, consult our controls application catalogue via our consulting sales corner.

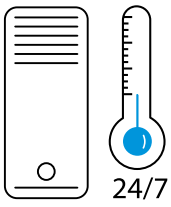
Office



	Unit control	Integrating control			Advanced control			
			 LonWorks Interface	 BACnet Interface				
	BRC1H52 W7/S7/K7	EKMBDXB	DMS504B51	DMS502A51	DCC601A51	DCM601B51	DGE601A51	DGE602A51
	1 remote controller for 1 indoor unit (group)	1 gateway for max. 64 indoor unit(s) (groups) & 10 outdoors	1 gateway for 64 indoor unit(s) (groups)	1 gateway for 128 indoor unit(s) (groups), 20 outdoors (2)	1 unit for 32 indoor unit(s) (groups)	1 iTM for 64 indoor unit(s) (groups) (1)	Up to 512 units with extension modules via Daikin Cloud Plus	Max 64 units via Daikin Cloud Plus
Automatic control of A/C	•	•	•	•	•	•	•	•
Centralised control for management		•	•	•	•	•	•	•
Local control for office staff	•				•	• Through web	•	•
Limit control possibilities for office staff	•	•	•	•	•	•	•	•
Integrate Daikin units into existing BMS via Modbus		•						
Integrate Daikin units into existing BMS via HTTP						•		
Integrate Daikin units into existing BMS via LonTalk			•					
Integrate Daikin units into existing BMS via BACnet				•				
Energy consumption read out	• (3)					•	•	•
Monitor energy consumption						•	•	•
Advanced energy management						• (5)	•	•
PPD software to distribute used kWh/indoor unit				• (4)		•	•	•
Integrate Daikin products cross pillars into Daikin mini- BMS						•	•	
Integrate third party products into Daikin mini-BMS						•	•	•
Online control							•	•
Manage multiple sites							•	•

(1) 7 iTM plus adapters (DGE601A52 and DGE601A53) can be added to have 512 indoor groups and 80 outdoor (systems) | (2) Extension (DAM411B51) needed to have up to 256 indoor unit(s) (groups), 40 outdoors | (3) Not available on all indoor units | (4) via DAM412B51 option | (5) via DCM002A51 option

Infrastructure cooling



	Unit	Integrating	Advanced
			
	BRC1H52W7/S7/K7	RTD-10	DCM601B51
	1 remote controller for 1 indoor unit (group) (2)	1 gateway for 1 indoor unit (group) Up to 8 gateways can be linked together	1 iTM for 64 indoor unit(s) (groups) (1)
Automatic control of A/C	•	•	•
Back-up operation	•	•	•
Duty rotation	•	•	•
Limit control possibilities in the technical cooling room	•	•	•
If room temperature above max., then show alarm & start standby unit.		•	•
If an error occurs, an alarm will be shown.	•	•	•
If an error occurs, activate an alarm output	Via KRP2/4A option (3)	•	Via WAGO I/O

(1) 7 iTM plus adapters (DGE601A52 and DGE601A53) can be added to have 512 indoor groups and 80 outdoor (systems) | (2) Infrastructure cooling functions only compatible with indoor units connected to RZQG*/RZAG* outdoor units. | (3) See option list of indoor unit

Home



	Onecta BRP069	Homehub EKRHH	HomeControls	Madoka BRC1HHDAK7/S7/W7	DCS Residential
					
	Free mobile application to control residential units	Centralized controller for residential applications	System for residential multi zoning	Unit controller for heating/cooling	Remote unit access for Installers including field settings and monitoring
End user access and settings	•	•	•	•	
Installer access and settings				•	•
Voice control	•				
Control of Comfort settings	•	•	•	•	•
Monitor energy consumption	•			•	•
Monitor IAQ (If connected to Air Purifier)	•				
Integrate Daikin Units using Local Interface		•			
Integrate Daikin Units using Cloud API	•				
Allow control through third party	•	•			
Settings of Schedules	•		•	•	•
Temperature range restrictions				•	•
Optimize PV self consumption		•			


17:46
97%
Living room
23 °C
15 °C
HEATING
23 °C .0
Next scheduled action
Monday · 18:30 · · 16°C
Heating
Mode
Schedule
chedule
ettings



Onecta App

Now available with voice control

The Onecta App is for those who live their life on the go and who want to manage their Daikin system from their smartphone.



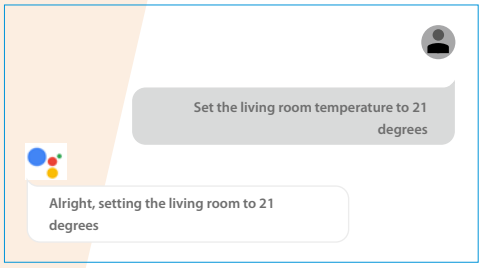
onecta

Voice control

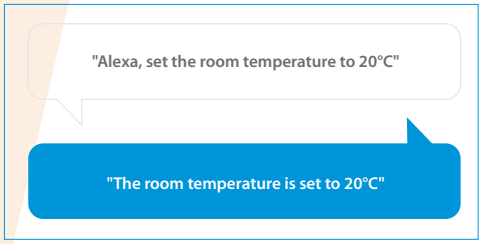
To provide users with even more comfort and ease, the Onecta App now offers voice control. This hands-free feature cuts down on clicks to manage units faster than ever before.
Cross-functional and multilingual, voice control pairs well with any smart device, including Google Assistant and Amazon Alexa.

works with the Google Assistant

amazon alexa



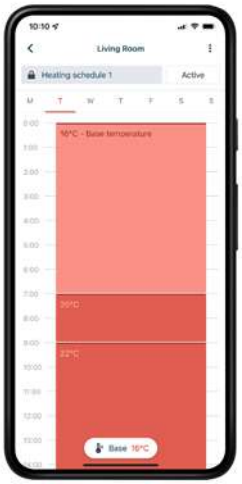
Example of using the voice control via Google Assistant



Scan the QR code to download the app now



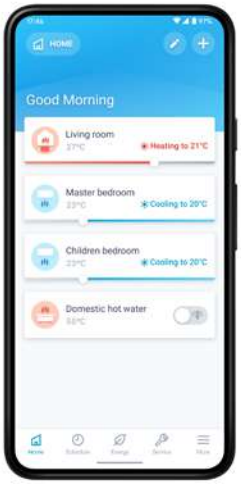




Schedule

Set up a programme outlining when the system should operate, and create up to six actions per day.

- ☑ Schedule room temperature and operation mode
- ☑ Enable holiday mode to save costs



Control

Customise the system to fit your lifestyle and year-round comfort levels.

- ☑ Change room and domestic hot water temperature
- ☑ Turn on powerful mode to boost hot water production

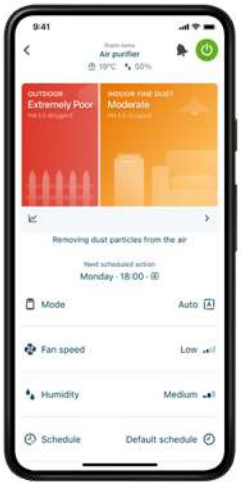


Monitor

Receive a thorough overview of how the system is performing and how much energy it consumes.

- ☑ Check the status of the heating system
- ☑ Access energy consumption graphs (day, week, month)

Function availability depends on the system type, configuration and operation mode. The app functionality is only available if both the Daikin system and the app have a reliable internet connection.



Now with Indoor & Outdoor Air Quality Information on fingertips

The new Daikin Air Purifiers MCK70Z & MC80Z are now integrated with Daikin Onecta App. In our mission to inform consumers everything related to their indoor and outdoor air quality, the app now also lets consumers monitor the outdoor air quality. This means that control of good indoor air quality is available easily on the fingertips through the smartphones.

For more information on our new Onecta App Integrated Daikin Air Purifiers, please refer to the Residential Air Quality Chapter



Possible Onecta Connections

For Daikin Altherma

	Outdoor		Indoor		connection to Onecta	
					WLAN	LAN
ASHP	Daikin Altherma 4 H	EPSK06/08/10/12/14	F	EPVX/Z	standard	
			ECH_2O	EPSX(B)		
			W	EPBX		
	Daikin Altherma 3 H HT	EPRA14/16/18D*	F	ETVH/X/Z16-E7	standard	optional: BRP069A62
			ECH_2O	ETSH(B)/X(B)16-E7		
			W	ETBH/X16-E7		
	Daikin Altherma 3 H MT	EPRA08/10/12E*	F	ETVH/X/Z12-E	standard	optional: BRP069A62
			ECH_2O	ETSH(B)/X(B)12-P-E		
			W	ETBH/X12-E		
	Daikin Altherma 3 R MT	ERRA-EV*	F	ELVH/X/Z-E	standard	optional: BRP069A62
			ECH_2O	ELSH/X(B)-E		
			W	ELBH/X-E		
	Daikin Altherma 3 R	ERGA-E*	F	EHVH/X/Z-E	standard	optional: BRP069A62
			ECH_2O	EHSH(B)/X(B)-P-E		
			W	EHBH/X-E		
	Daikin Altherma 3 R	ERLA11/14/16D*	F	EBVH/X/Z-D	optional: BRP069A78 or BRP069A71	optional: BRP069A62
			ECH_2O	EBSH(B)/X(B)-D		
			W	EBBH/EBBX-D		
	Daikin Altherma 3 R	ERLA03DV	F	EHFH/Z03-S18D3V	×	optional: BRP069A62 or BRP069A61
	Daikin Altherma 3 H	EPGA-DV7	F	EAVH/X/Z-D7	×	optional: BRP069A62 or BRP069A61
			W	EABH/X-D7		
	Daikin Altherma 3 M	EBLA09/11/14/16D(7)			optional: BRP069A78	optional: BRP069A62
		EDLA09/11/14/16D				
	Daikin Altherma 3 M	EBLA04/06/08E			standard	optional: BRP069A62
		EDLA04/06/08E				
HYBRID	Daikin Altherma R Hybrid	EVLQ-CV3		EHYHBH-AV32	×	optional: BRP069A62 or BRP069A61
	Daikin Altherma H Hybrid	EJHA-AV3	Boiler	EHYKOMB33AA2/3		
			Boiler	EHY2KOMB28/32A A	×	optional: BRP069A62 or BRP069A61
GS/WS	Daikin Altherma 3 GEO			EGSAH/X-(U)D9W	×	standard
	Daikin Altherma 3 WS			EWSA-D	×	standard
COMB.	Daikin Altherma 3 C Gas W			D2CND-A1/A4		optional: DRGATEWAYAA
				D2TND-A4		

* In case both WLAN and LAN options are possible, we advice to choose WLAN if possible as the WLAN adaptors offer more possibilities (e.g. remote MMI update, more remote installer settings)

For Air to Air Heat Pumps

Model #	WLAN	Availability of WLAN	Onecta	Daikin Cloud Service
Ururu Sarara	FTXZ-N	Optional	User settings	N/A
Daikin Emura	FTXJ-M*	Standard - Included in the box	User settings	N/A
	FTXJ-A*	Integrated	User settings	Basic field settings
	FTXJ-A*9	Integrated	User settings	Full field settings
Stylish	FTXA-A/B*	Integrated	User settings	N/A
	FTXTA-C*	Integrated	User settings	Full field settings
	FTXA-C*	Integrated	User settings	Full field settings
Perfera	FTXM-R	Integrated	User settings	N/A
	FTXTM-S	Integrated	User settings	N/A
	FTXM-A	Inegrated	User settings	Full field settings
	FTXTM-A	Integrated	User settings	Full field settings
	FTXTM-S	Integrated	User settings	Full field settings
Comfora	FTXP-M*	Optional	User settings	N/A
	FTXP-N - smal classes (20,25,35,50)	Optional	User settings	N/A
	FTXP-N9 - smal classes (20,25,35,50)	Integrated	User settings	Full field settings
	FTXP-N - big classes (60/71)	Standard - Included in the box	User settings	Full field settings
Sensira	FTXF-D	Optional - BRP069B45	User settings	N/A
	FTXF-E	Optional - BRP069C47	User settings	N/A
	FTXF-F	Standard	User settings	N/A

For Daikin Air Purifiers

Model #	WLAN
MCK80Z/ZB	integrated
MCK70W/BFW & MCKZOH/BFH	integrated

For VRV

	Model #	WLAN
VRV 5 indoor units	FXFA-A	Optional BRP069C51 (1)
	FXZA-A	
	FXKA-A	
	FXDA-A	
	FXSA-A	
	FXMA-A	
	FXHA-A	
	FXUA-A	
	FXAA-A	
	FXNA-A	

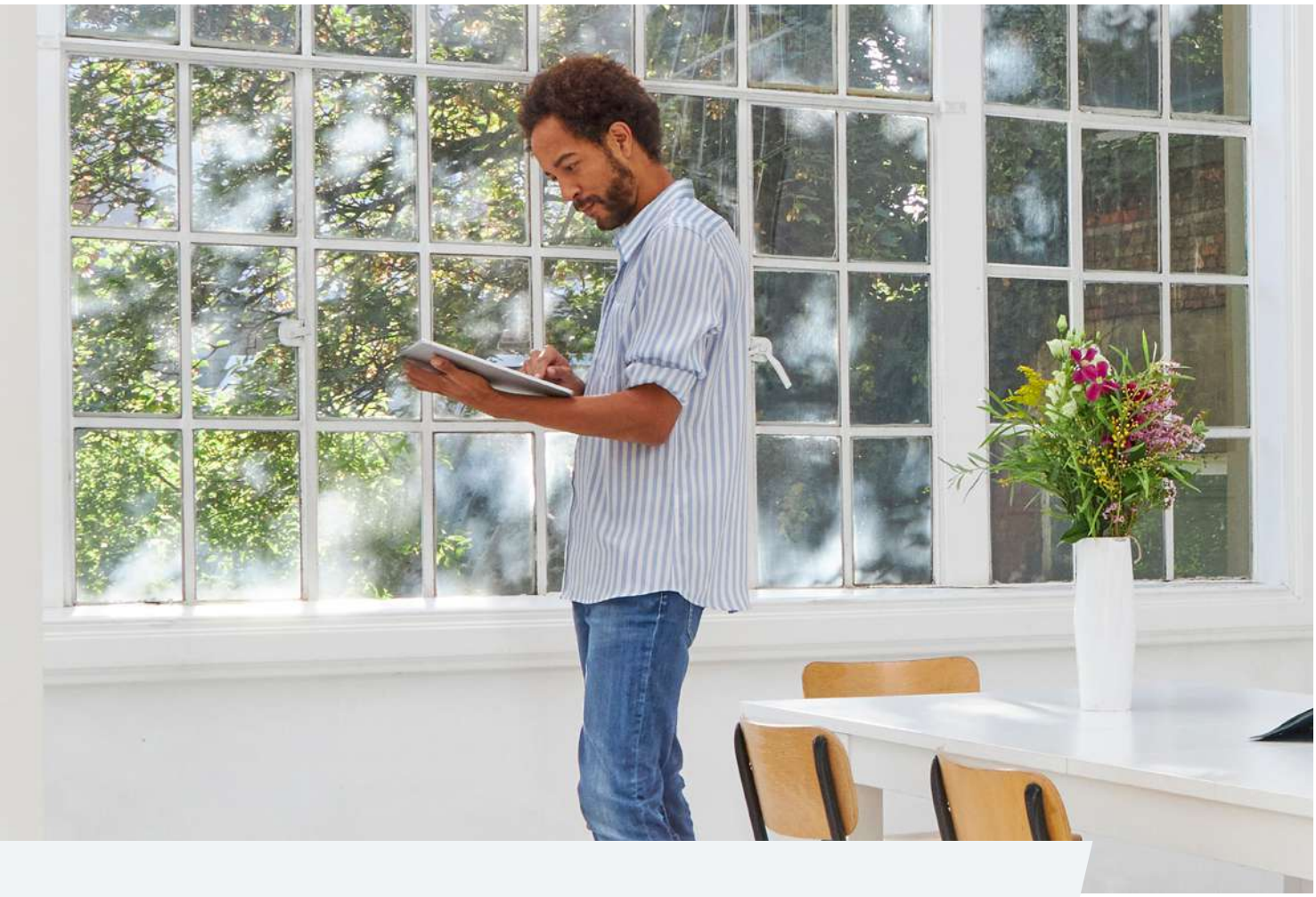
(1) MMust be combined with BRC1H52W/S/K

For Sky Air

	Model #	WLAN
Sky Air	FDXM-F9	Optional BRP069C81 (1)
	FFA-A9	
	FBA-A(9)	
	FDA125A	
	ADEA-A	
	FAA-B	
	FHA-A(9)	
	FUA-A	
	FVA-A	
	FNA-A9	
	FCAG-B	Optional BRP069C82 (2)
	FCAHG-H	
	FDA200-250A	Optional BRP069C82 (3)

(1) Only possible in combination with wired or wireless remote control | (2) EWHAR1 is required if autocleaning panel & Onecta is connected; Cannot be combined with KRP4A53; Only possible in combination with wired or wireless remote control | (3) Cannot be combined with KRP4A51 and KRP2A51





HomeHub

Daikin Home Energy Management System

Daikin HomeHub can, depending on the user's needs, support two different modes:

As a controller:
HomeHub is the main controller intended to optimise the energy consumption of a Daikin Altherma heat pump or air-to-air Multi+ heat pump in combination with a PV system.

As an interface:
HomeHub is used to control our Daikin Altherma heat pump or our range of air-to-air heat pumps from a home automation or energy management system through a local interface.

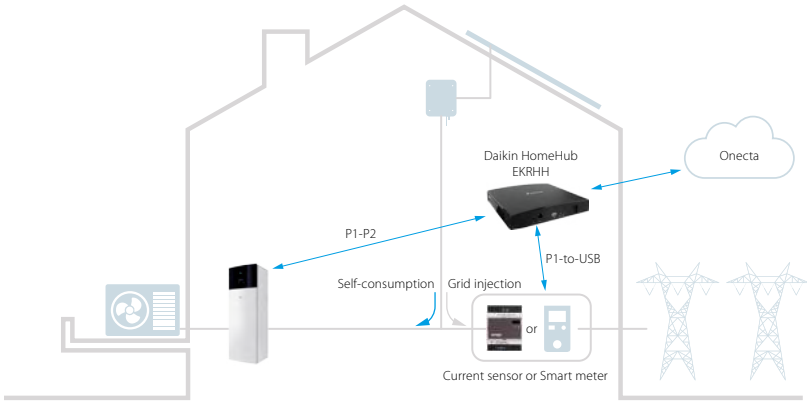
Basic specifications:

- Daikin P1-P2 connectivity
- LAN connectivity for features upgrades and Modbus IP
- Modbus RTU connectivity
- Configuration, control and feedback through the MMI of the Daikin Altherma or Multi+ (DHW) tank



NEW

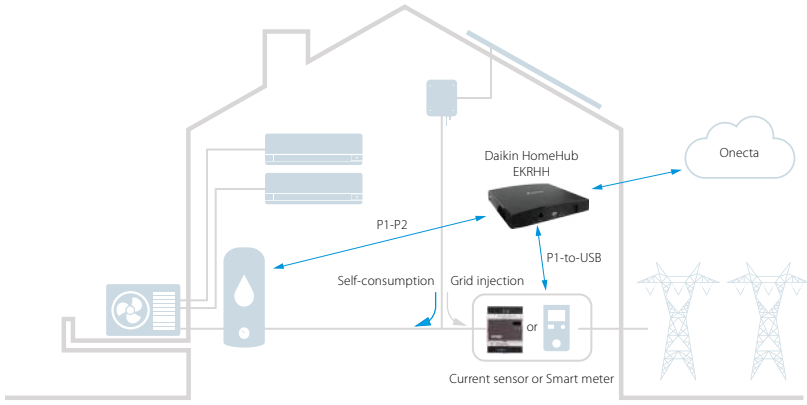
Discover the four use cases:



Logic: DHW generation using the excess of PV energy

Use Case 1:
PV self-consumption for Daikin Altherma

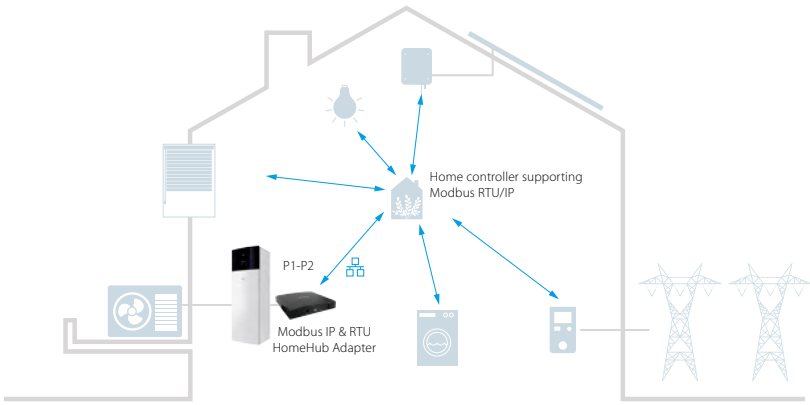
PV self-consumption for Daikin Altherma is optimising the energy consumption of the heat pump by using the energy generated by the PV panels. This is achieved by using the solar energy, which would normally be injected into the grid, **to heat up the domestic hot water or to buffer energy in space pre-heating or pre-cooling.**



Logic: In summer season, DHW is generated by running the immersed 1,200W heater on the excess of PV while the multi continues to run for cooling

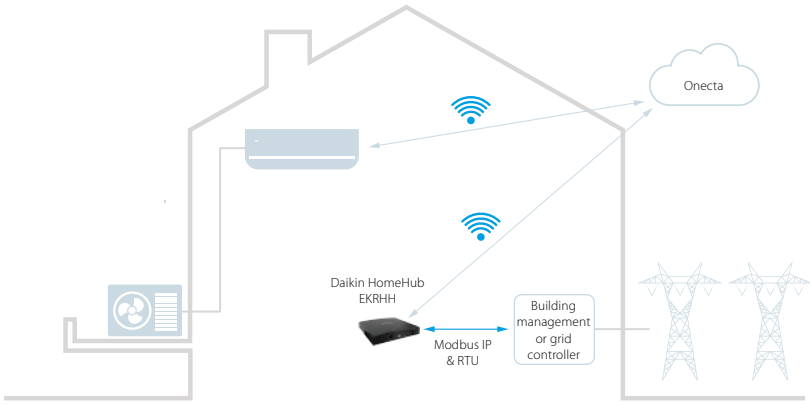
Use Case 2:
PV self-consumption for Multi+

This use case shows similarity with use case 1 for Daikin Altherma. However, once the injection is higher than 1.2 kW, the excess of energy is in this case directly supplied to the booster heater of the domestic hot water tank. This will accelerate **the generation of domestic hot water at a low cost.**



Use Case 3:
Modbus RTU/IP for Daikin Altherma

This use case integrates Daikin Altherma units in a home automation or energy management system through Modbus IP/RTU. The interface provides comfort and energy features.



Use Case 4:
Modbus RTU/IP for Daikin air-to-air heat pumps

This use case provides Smart Grid readiness to our air-to-air heat pump range, through Modbus RTU/IP.


KOPENHAGEN
GENT



Daikin Cloud Service Residential

Daikin Cloud Service Residential is an online remote monitoring platform that allows HVAC professionals to monitor, finetune and control Daikin Residential products throughout their lifetime.

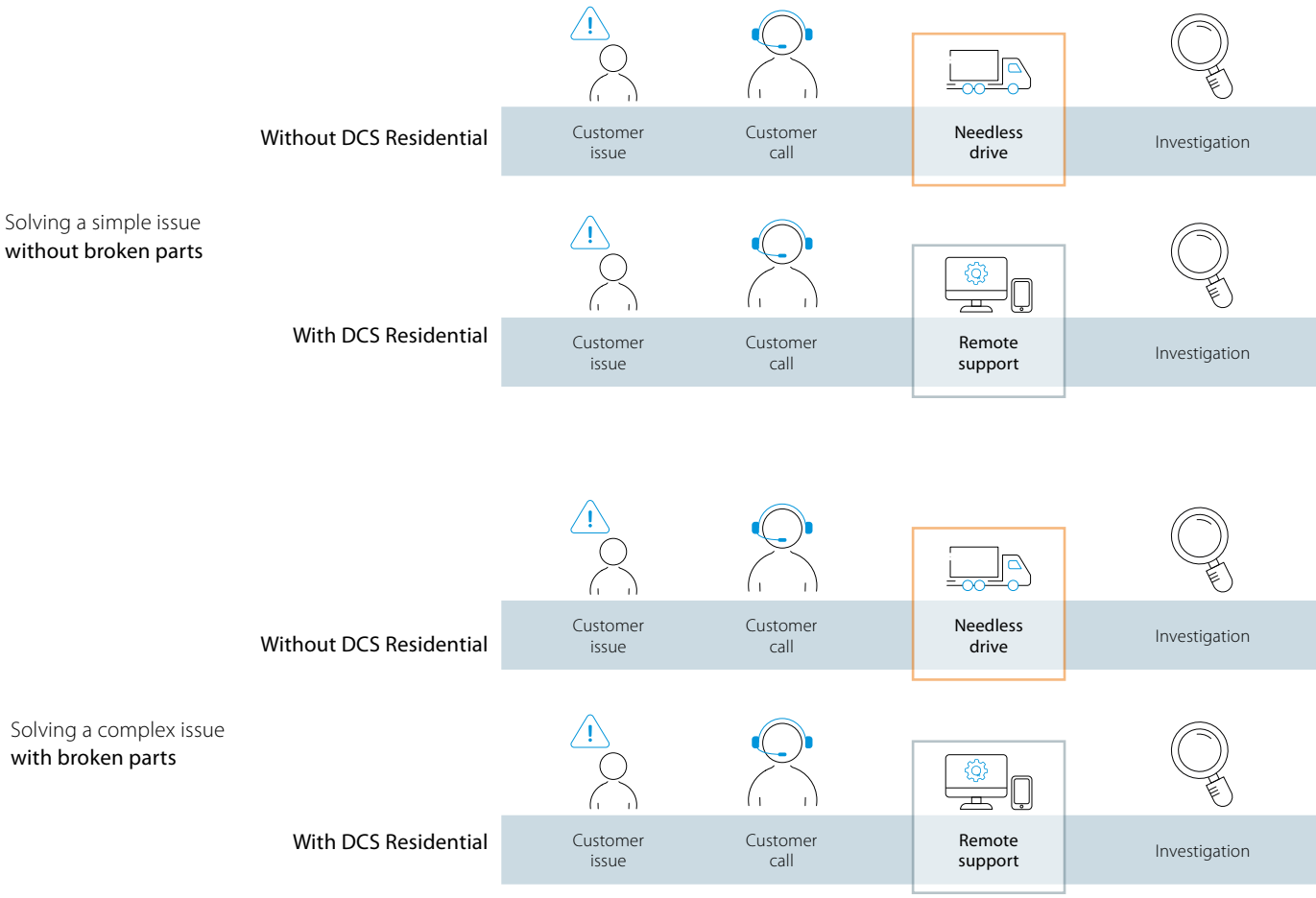
Residential installers will now be able to remotely monitor and manage customer unit settings across a range of parameters and datapoints, while swiftly diagnosing and resolving service issues.

Benefits for the installer

More installation capacity: Remote diagnosis and troubleshooting streamline the process, leading to quicker and more efficient resolutions, thereby minimizing onsite visits and boosting installation capacity. Currently, a significant amount of time is consumed by visits to units with incorrect settings. Additionally, DCS Residential can be employed for addressing faulty units as well.

Cost Savings: Remote monitoring reduces the necessity for on-site visits and improves the rate of first-time fixes, and saves time and travel costs. Therefore, it enhances the cost-effectiveness of installer operations.

Enhanced Customer Service: Installers can offer faster and better customer support by remotely monitoring their systems.
They can respond promptly to customer inquiries, provide quick solutions, and offer a higher level of service.



User settings: The ability to access user controls will enable installers to monitor and adjust settings remotely where issues arise due to setting errors, eliminating the need to make home visits.

Field settings: Installers can control over a comprehensive range of field settings that also allows installers to finetune more advanced settings such as the operation of Daikin's '2-area motion detection sensor' technology and target room temperature correction to maximise home comfort levels.

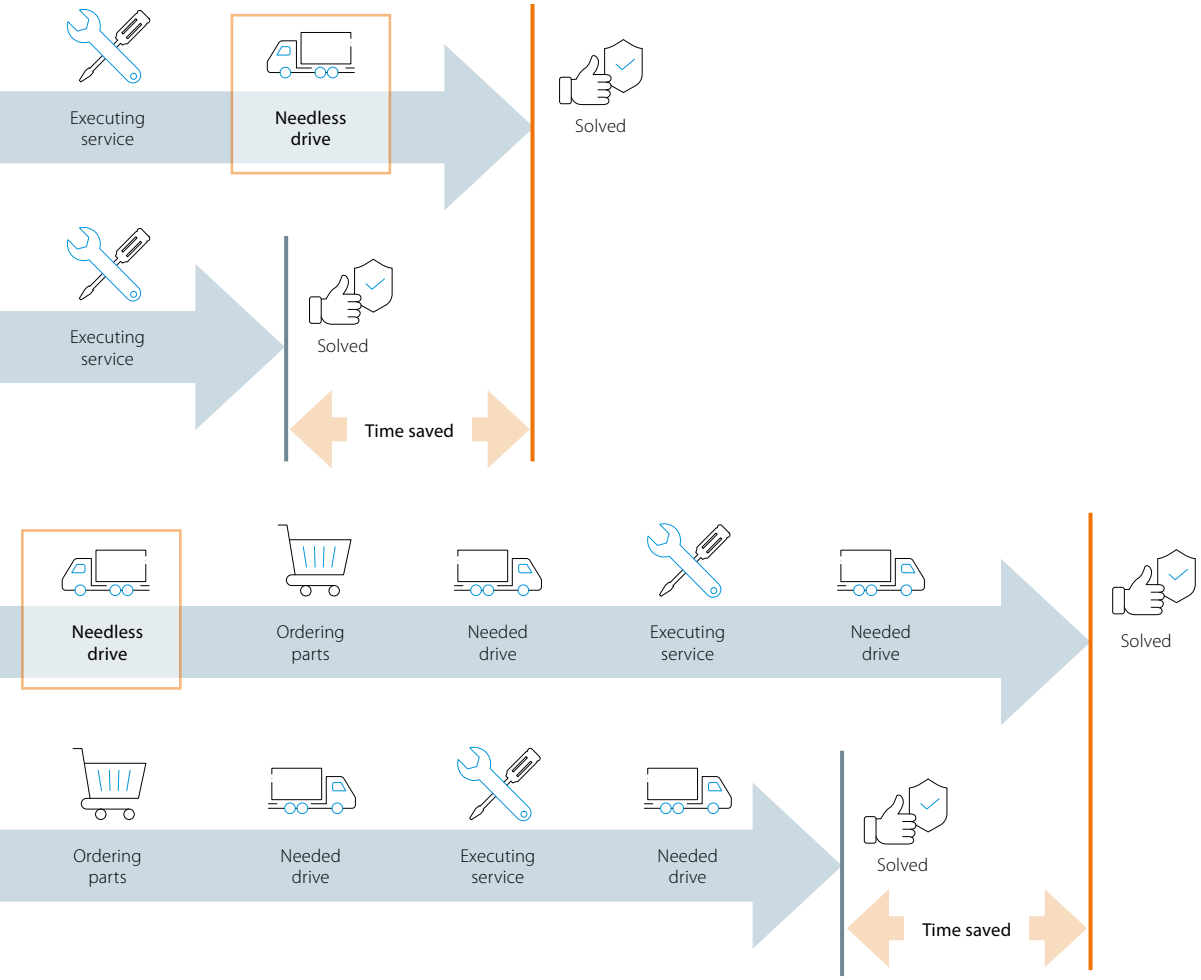
Data capture and analysis: With 36 D-checker data points, plus the ability to view to two months data history, installers can monitor critical information for the residential units remotely. A new visualisation feature with new graphic display has been included to simplify trend analysis and enable faster problem identification. Often resulting in remote resolution. Where a site visit is required, being able to order the right parts in advance will increase the 'first time fix' ratio.

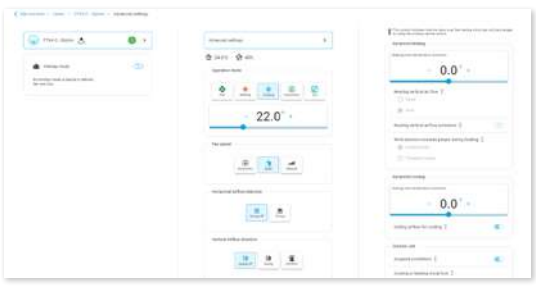
Benefits for the end-user

Reduced Downtime: Quickly identifying and fixing issues minimizes system downtime.

Cost Savings: Remote monitoring helps in identifying and addressing issues without the need for on-site visits.
This reduces travel and service costs charged.

Peace of Mind: Customers feel assured knowing their systems are remotely monitored, trusting that any issues will be promptly addressed, enhancing their overall experience.





User settings



Data points

Visit the website

STAND BY ME

How to access the tool?

Daikin Cloud Service Residential is available on the **Stand By Me portal** and **e-Care app** which allow the **real time monitoring** and **control** of Daikin Residential HVAC systems from anywhere with internet access.

Explore
Daikin Metroline

What is Stand By Me?

It is an **after-sales platform** that acts as a digital logbook to **track the status of the installed base** and gives opportunities for after-sales business.

By using SBM you can:

- Manage the warranty data
- Perform remote monitoring
- Manage the maintenance
- Log the Repair activity
- Have an overview of the orders

Visit & register yourself
on Stand By Me

Available Models

Please reach out to your local Daikin representative for all current available models with DCS residential.

For further details on Stand By Me and other digital tools, please reach out to your local Daikin representative, who will provide you with available training sessions.



DAIKIN

Madoka wired remote controller

The beauty of simplicity.

Madoka



Silver
RAL 9006 (metallic)
BRC1H52S7



Black
RAL 9005 (matte)
BRC1H52K7



White
RAL9003 (glossy)
BRC1H52W7

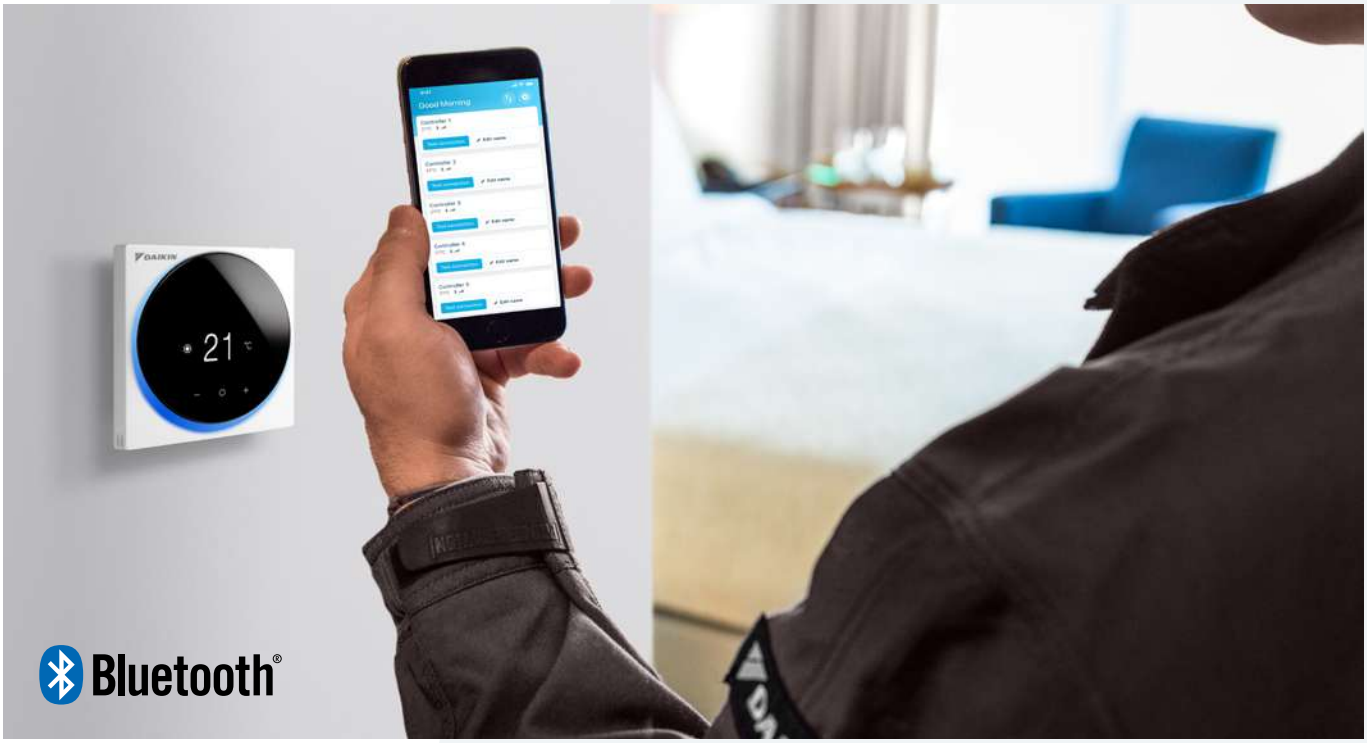
User-friendly wired remote controller with premium design

Madoka combines refinement and simplicity

- Sleek and elegant design
- Intuitive touch-button control
- Three display options: standard, detailed and **new symbolic view**
- Three colours to match any interior
- Compact, measures only 85 x 85 mm
- Advanced settings **copy function** and commissioning via smartphone
- CO_2 concentration visualisation

reddot award 2018
winner

DESIGN AWARD 2018



Madoka Assistant

Simplifies the advanced settings such as schedule or set point limitation

- Visual interface simplifies advanced settings such as schedule setting,energy saving activation, setting restrictions, etc.
- Save field settings and schedules on your phone and upload to multiple controllers, saving time and cost
- Easy and quick commissioning
- Featuring Bluetooth® low energy technology

Available on the App Store

GET IT ON Google Play

Control your devices



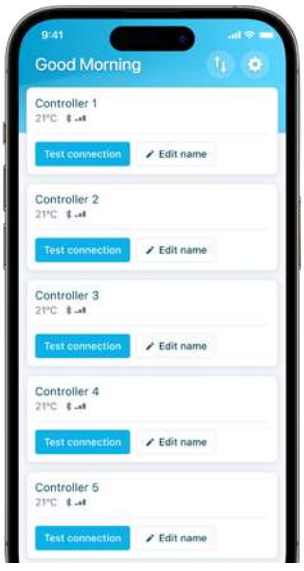
Set schedules



Gain insights



Installer mode



BRC1H52W7 / BRC1H52S7 / BRC1H52K7

Madoka wired remote controller for Sky Air and VRV



BRC1H52W7
Symbollic view



BRC1H52S7
Standard view



BRC1H52K7
CO_2 visualisation

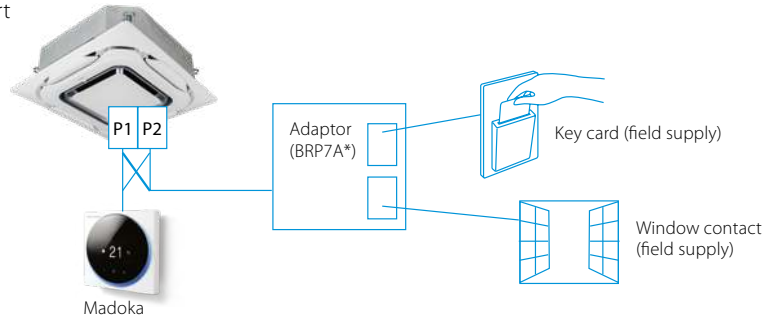
A complete redesigned controller focussed to enhance user experience

- Sleek and elegant design
- Intuitive touch-button control
- Three display options: standard, detailed and **symbolic view**
- Direct access to basic functions
  (on/off, set point, mode, target values, fan speed, louvres, filter icon & reset, error & code)
- Three colours to match any interior
- Compact, measures only 85 x 85 mm
- Real time clock with auto update to daylight saving time

Hotel application features

- Energy saving through key card, window contact integration and set point limitation (BRP7A*)
- Flexible setback function ensures room temperature remains within comfortable limits to ensure guest comfort

Key card and window contact integration



Madoka Assistant: Advanced settings can be easily done via your smartphone

Control your devices



A range of energy-saving functions that can be selected individually

- Temperature range restriction:
  Save on energy by setting the low temperature limit in cooling mode and the high temperature limit in heating mode (1)
- Setback function
- Adjustable presence detector and floor sensor (available on the Round Flow and Fully Flat Cassettes)
- Automatic temperature reset
- Auto off timer

Kilowatt-hour consumption tracking (2)

The kWh indicator displays indicative power consumption for the last day/month/year.

Other functions

- Three user access levels: Basic user, Advanced and Installer to match user requirements and prevent improper use.
- Save field settings and schedules on your phone and upload to multiple controllers, saving time and cost
- Mark frequently used menu's as favourites for direct access
- Up to three independent schedules can be programmed, allowing you to switch easily between them throughout the year (e.g. summer/winter/mid-season)
- Menu settings can be individually locked or restricted
- The outdoor unit can be set to quiet mode and power consumption limit control by schedule (3)
- Real-time clock that updates automatically for daylight saving

Cost-effective solution for infrastructure cooling applications

- Only in combination with RZAG* / RZQG*
- Duty rotation
  After a certain period of time, the operating unit will go into standby and the standby unit will take over, extending the system lifetime.Rotation interval can be set for 6, 12, 24, 72 or 96 hours, as well as weekly.
- Back-up operation: if one unit fails, the other unit will start automatically

(1) Also available in auto cooling/heating changeover mode
(2) For Sky Air FBA, FCAG and FCAHG pair combinations only
(3) Only available on RZAG*, RZASG*, RZQG*, RZQSG*

BRC1HHDW / BRC1HHDS / BRC1HHDK

Madoka wired remote controller for Daikin Altherma 3 heat pumps



BRC1HHDAW7



BRC1HHDAS7



BRC1HHDAK7

Madoka combines refinement and simplicity, while ensuring more stable room temperature



Intuitive control with a premium design:

The smooth curves of the Madoka controller offer a sleek, refined shape which is distinguished by its striking blue circular display. Presenting a clear visual reference with large easy to read numbers, the controller features are accessed through three touch buttons, which combine intuitive control with easy adjustability for an enhanced user experience.

Three colours to match any interior design:

No matter your interior design, Madoka will match it. Silver gives an additional touch to stand out in any interior or application, while Black is an ideal match for darker, stylish interiors. White offers a sleek, modern look.

Easily set operation parameters:

Setting and finetuning your controller is simple and helps you attain higher energy savings and more comfort. The system enables you to select the space operation mode (heating, cooling or automatic), set the desired room temperature and control the domestic hot water temperature.

Easy Update via Bluetooth:

It is strongly recommended that the user interface has the latest software version. To update the software or check if updates are available, you need a mobile device and the Madoka Assistant app. This app is available from Google Play and the Apple Store.

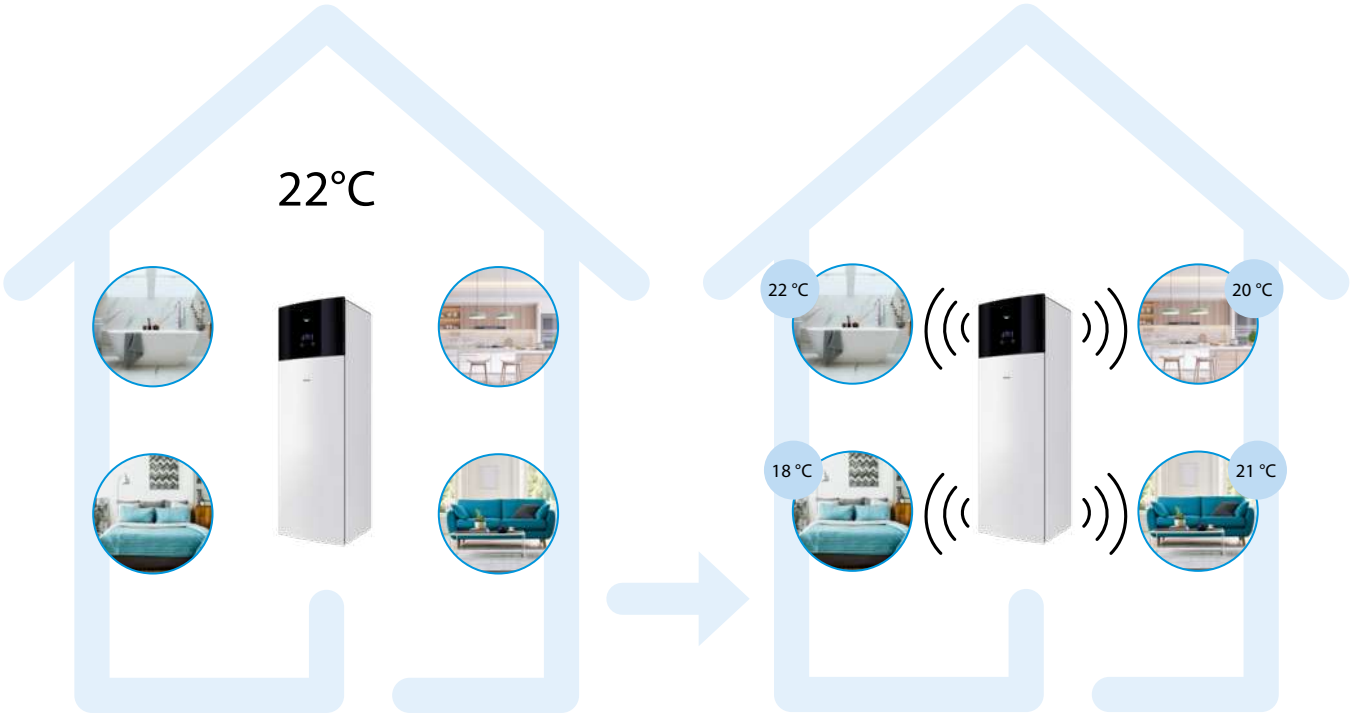
Available on the App Store

GET IT ON Google Play

www.daikin.eu/madoka

Individual wireless room controllers

Our individual wireless room controllers allow for a total flexibility in heating your home.



☑ Personalize your heating schedule

A traditional heating system allows you to control the temperature in only one room. With Daikin Home Controls you can choose the perfect temperature for each area separately.

☑ Wireless control for a better flexibility

Get rid of cables and have control from anywhere you are, thanks to the Onecta app.

Our wireless range of controllers makes your life easier. As soon as they are installed, you can program or control each room temperature from the intuitive app.



Always in control

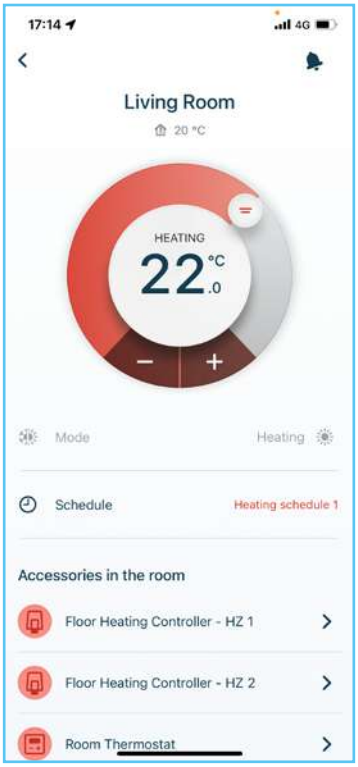
onecta

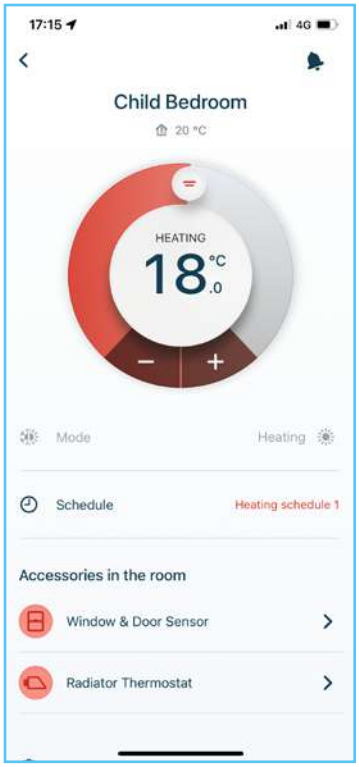
Jump into a fully connected system!

With Onecta app, you have an overview of all rooms temperatures. You can manage them individually, at home or remotely.



Room overview





Individual room overview

Portfolio overview

The access point connects all Daikin Home Controls accessories with the cloud

Access point
EKRACPUR1PA (EU)
EKRACPUR1PU (UK)

TRV

- The radiator thermostats open or close the radiator valves of each room to control its heating demand
- Easy to mount without having to drain any water (suitable for radiators with a thread size of M30 x 1.5)

TRV

EKRRVATR2BA (EU)
EKRRVATU1BA (UK)

The multi (for reversable systems) or basic (for heating only systems) IO box connects your Daikin Home Controls eco system to the Daikin Altherma.





IO Box
EKRSIBDI1V3(H/O)
EKRMIBEV1V3

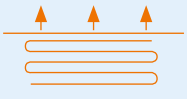
Floor heating controller
EKRUFHT61V3

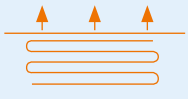
Actuators per zone
EKWCVATR1V3

Measure and control the room temperature in combination with radiator thermostats or the floor heating controller

Room thermostat or sensor
EKRCTRDI2BA
EKRCTRDI3BA
EKRSENDI1BA

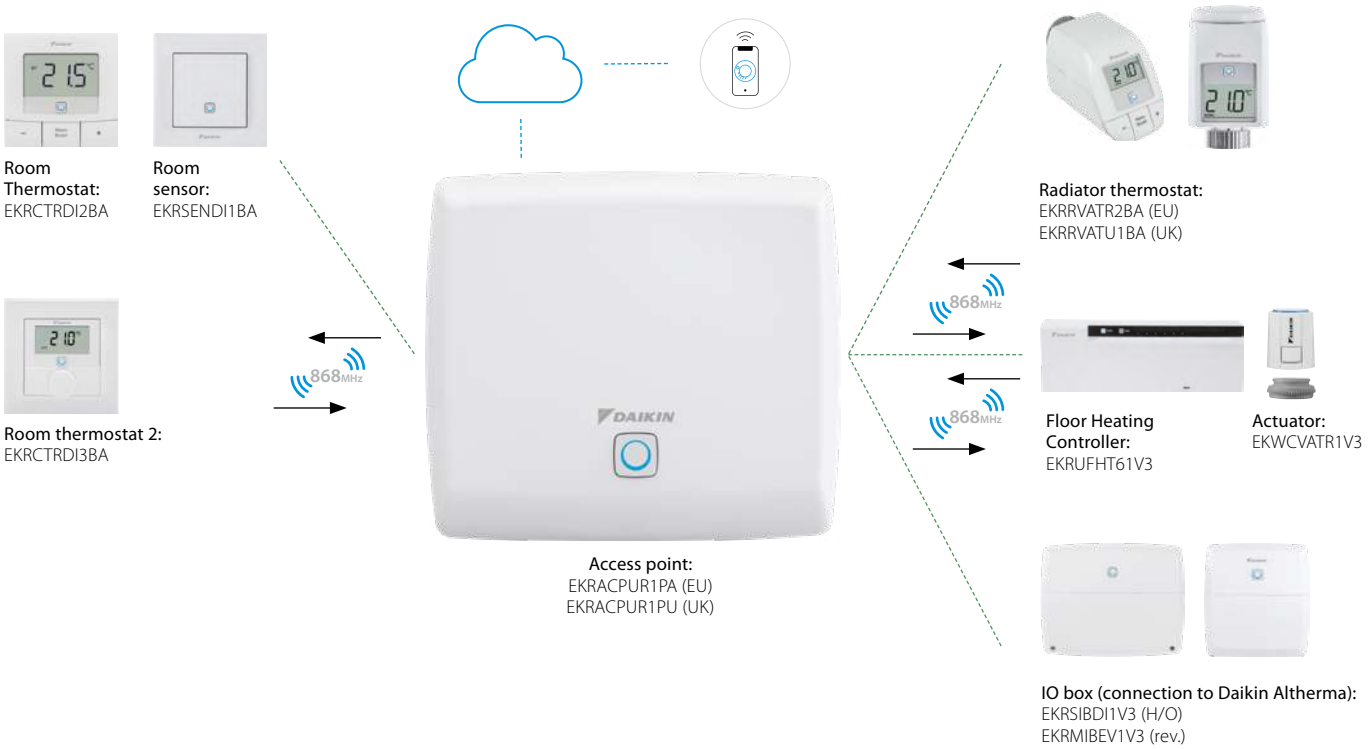






The floor heating controllers in combination with the actuators enables room by room control for rooms heated and/or cooled by underfloor heating.

Portfolio overview



Combination table

	Outdoor unit		Indoor unit	
Air-to-water heat pump	Daikin Altherma 4 H 06-08-10-12-14 kW	EPSK-A	Floor standing	EPVX/Z
			ECH_2O	EPSX(B)
			Wall mounted	EPBX
	Daikin Altherma 3 H MT 08-10-12 kW	EPRA-EV3/W1	Floor standing	ETVH/X/Z16-E7
			ECH_2O	ETSH(B)/X(B)16-E7
			Wall mounted	ETBH/X16-E7
	Daikin Altherma 3 H HT 14-16-18 kW	EPRA-DV3/W1(7)	Floor standing	ETVH/X/Z12-E
			ECH_2O	ETSH(B)/X(B)12-P-E
			Wall mounted	ETBH/X12-E
	Daikin Altherma 3 R 04-06-08 kW	ERGA-EV(7)(H)(A)	Floor standing	EHVH/X/Z-E
			ECH_2O	EHSH/X(B)-E
			Wall mounted	EHBH/X-E
	Daikin Altherma 3 R 11-14-16 kW	ERLA-DV3/W1	Floor standing	EBVH/X/Z-D
			ECH_2O	EBSH(B)/X(B)-D
			Wall mounted	EBBH/EBBX-D
	Daikin Altherma 3 R MT 08-10-12 kW	ERRA-EV3/W1	Floor standing	ELVH/X/Z-E
			ECH_2O	ELSH(B)/X(B)-E
			Wall mounted	ELBH/X-E
	Daikin Altherma 3 M	EBLA-D		
	09-11-14-16 kW	EDLA-D		
	Daikin Altherma 3 M	EBLA-E		
	04-06-08 kW	EDLA-E		
	Daikin Altherma 3 R	ERLA03DV	Floor standing	EHFH/Z03-S18D3V
Hybrid heat pump	Daikin Altherma R Hybrid	EVLQ-CV3	Wall mounted	EHYHBH-AV32
				EHYKOMB33AA2/3
	Daikin Altherma H Hybrid	EJHA-AV3	Boiler	EHY2KOMB28/32A A
Ground and water source heat pump	Daikin Altherma 3 GEO			EGSAH/X-(U)E9W
				EGSAH/X-(U)D9W
	Daikin Altherma 3 WS			EWSAH/X-(U)E3V
				EWSAH/X-(U)D9W

BRC1E53A

User friendly remote control for Sky Air and VRV



Graphical display of indicative electricity consumption (Function available in combination with FBA-A, FCAG and FCAHG)

A series of energy saving functions that can be individually selected

- Demand control (1)
- Temperature range limit
- Setback function
- Presence & floor sensor connection (available on round flow and fully flat cassette)
- kWh indication (2)
- Set temperature auto reset
- Off timer

Other functions

- Up to 3 independent schedules
- Possibility to individually restrict menu functions
- Choice of display between symbol or text
- Real time clock with auto update to daylight saving time
- Built-in backup power for clock (up to 48 hours). Settings are always kept in case of power loss.
- Supports multiple languages: BRC1E53A: English, German, French, Dutch, Spanish, Italian, Portuguese

Cost-effective solution for infrastructure cooling applications
- Only in combination with RZAG* / RZQG*

DUTY ROTATION

(1) Only available on RZAG*, RZASG*, RZQG*, RZQSG*
(2) For Sky Air FBA, FCAG and FCAHG pair combinations only

BRC1D52

Wired remote control for Sky Air and VRV



BRC1D52

- Schedule timer: Five day actions can be set
- Home leave (frost protection): during absence, the indoor temperature can be maintained at a certain level. This function can also switch the unit ON/OFF
- User friendly HRV function, thanks to the introduction of a button for ventilation mode and fan speed
- Immediate display of fault location and condition
- Reduction of maintenance time and costs

BRC4*/BRC7*

Infrared remote control



BRC4*/BRC7*

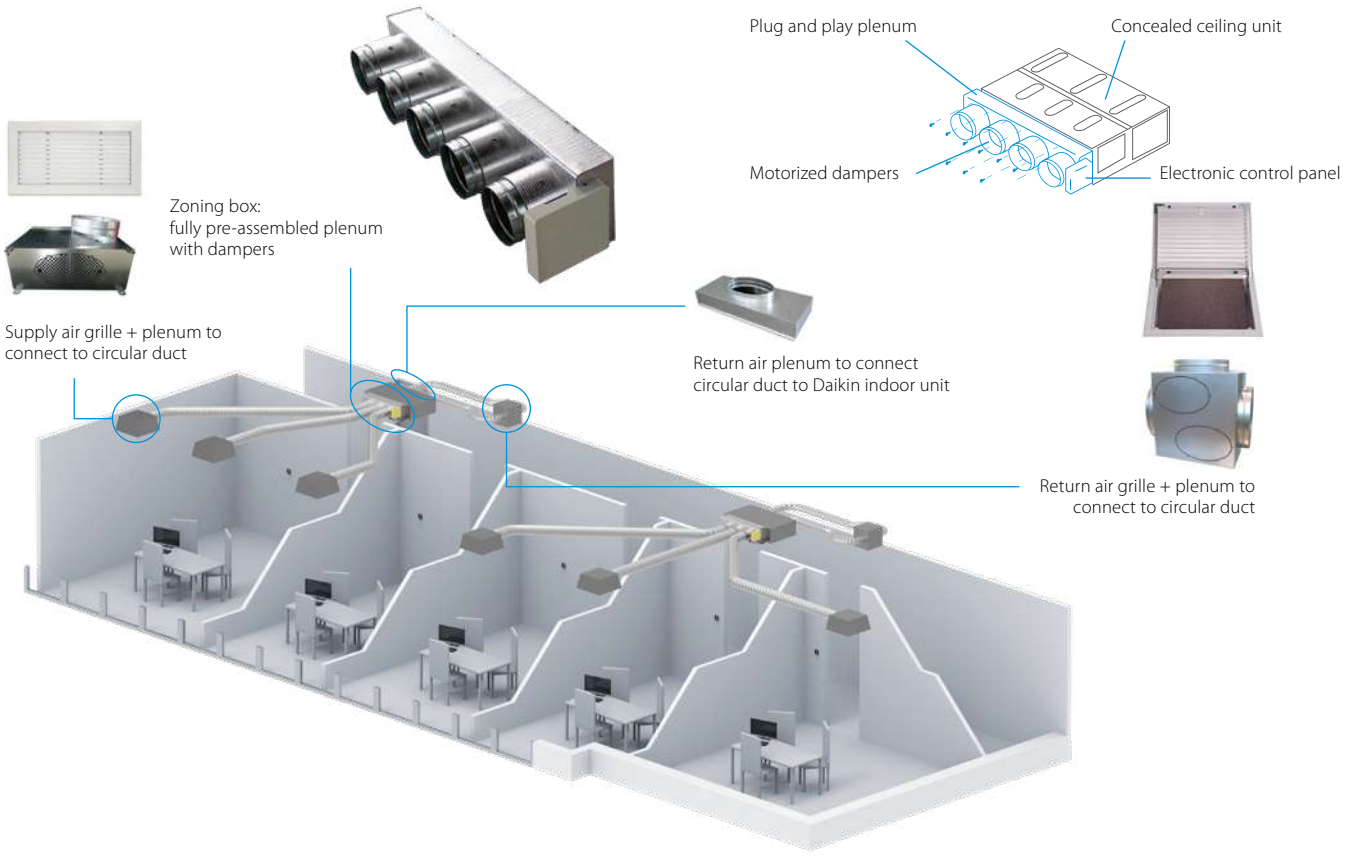
Operation buttons: ON / OFF, timer mode start / stop, timer mode on / off, programme time, temperature setting, air flow direction (1), operating mode, fan speed control, filter sign reset (2), inspection (2)/ test indication (2)
Display: Operating mode, battery change, set temperature, air flow direction (1), programmed time, fan speed, inspection / test operation (2)

1. Not applicable for FXDQ, FXSQ, FXNQ, FBDQ, FDXM, FBA
2. For FX** units only
3. For all features of the remote control, refer to the operation manual

Multi-zone controller

The multi-zoning system is a room-by-room controller. It is fitted with motorised dampers, which immediately adapt using Daikin ducted solutions. This system supports control of up to 8 zones connected to one indoor unit via a centralised thermostat located in the main room and individual thermostats for each of the zones.

Easy selection via our NEW software!



Compatibility

Number of motorised dampers		Reference	Dimensions H x W x D (mm)	Ø (mm)	FDXM-F9				FBA-A(9)							ADEA-A			FXDQ-A3							FXSQ-A										
					25	35	50	60	35	50	60	71	100	125	140	71	100	125	15	20	25	32	40	50	63	15	20	25	32	40	50	63	80	100	125	140
Standard plenum	2	AZEZ6DAIST07XS2	300 x 930 x 454	200																						•	•	•	•						
		AZEZ6DAIST07S2							•	•																				•	•					
	3	AZEZ6DAIST07XS3																								•	•	•	•						
		AZEZ6DAIST07S3							•	•																				•	•					
	4	AZEZ6DAIST07S4	300 x 1,140 x 454						•	•																				•	•					
		AZEZ6DAIST07M4									•	•				•																•	•			
	5	AZEZ6DAIST07M5	300 x 1,425 x 454								•	•				•																•	•			
		AZEZ6DAIST07L5											•	•	•		•	•																•	•	
	6	AZEZ6DAIST07M6	300 x 1,638 x 454								•	•				•																•	•			
		AZEZ6DAIST07L6											•	•	•		•	•																•	•	
	7	AZEZ6DAIST07L7	515 x 1,425 x 454										•	•	•		•	•																•	•	
		AZEZ6DAIST07XL7																																		•
	8	AZEZ6DAIST07L8											•	•	•		•	•																•	•	
		AZEZ6DAIST07XL8																																		•
Medium plenum	2	AZEZ6DAIBS07XS2	250 x 930 x 454	200																						•	•	•	•						
		AZEZ6DAIBS07S2							•	•																				•	•					
	3	AZEZ6DAIBS07XS3																								•	•	•	•						
		AZEZ6DAIBS07S3							•	•																				•	•					
		AZEZ6DAIBS07M3									•	•				•																•	•			
	4	AZEZ6DAIBS07S4	250 x 1,140 x 454						•	•																				•	•					
		AZEZ6DAIBS07M4									•	•				•																•	•			
		AZEZ6DAIBS07L4											•	•	•		•	•																•	•	
	5	AZEZ6DAIBS07S5	250 x 1,425 x 454						•	•																				•	•					
		AZEZ6DAIBS07M5									•	•				•																•	•			
		AZEZ6DAIBS07L5											•	•	•		•	•																•	•	
		AZEZ6DAIBS07XL5																																		•
	6	AZEZ6DAIBS07M6	250 x 1,638 x 454								•	•				•																•	•			
		AZEZ6DAIBS07L6											•	•	•		•	•																•	•	
		AZEZ6DAIBS07XL6																																		•
Slim plenum	2	AZEZ6DAISL01S2	210 x 720 x 444	200	•	•													•	•	•	•														
	3	AZEZ6DAISL01S3			•	•													•	•	•	•														
	4	AZEZ6DAISL01M4	210 x 930 x 444																					•	•											
	5	AZEZ6DAISL01L5	210 x 1,140 x 444				•	•																	•											

(1) reversible units can be blocked to heating only via AZX6MCS module

Controls

3 controller versions are available to choose from: Colour, touch or simplified



AZCE6BLUEZEROCB (Wired)

Bluezero - main thermostat
- Intuitive graphical, colour touch screen for controlling multiple zones



AZCE6THINKRB (Wireless)

Think - zone thermostat
- Graphic touch button with low-energy e-ink screen for controlling single zones



AZCE6LITECB (Wired)
AZCE6LITERB (Wireless)

Lite - zone thermostat
- Simplified thermostat with touch buttons for temperature control

- Optional bus cable (2 x 0.5 mm^2 | 2 x 0.22 mm^2), 15 m length: AZX6CABLEBUS15, 100m length: AZX6CABLEBUS100



AZX6WSPHUB



AZX6WSC5GER

Webserver for remote control
- Cloud based remote control of multizoning kit(s)
- Configuration and control of zones (temperature, operation mode, ...)
- Access via webportal, or Android/IOS application
- Supports Ethernet and WIFI
- AZX6WSPHUB:
- For installation on DIN rail
- 32 zoning boxes can be controlled
- AZX6WSC5GER:
- For installation in the unit
- Controls one zoning box



AZX6WSPBAC



AZX6KNXGTWAY

BACnet or KNX gateway
- Allows ON/OFF control of each zone
- Control of temperature for each zone
- Status indication of operation mode
- One gateway needed per system

Grilles and plenums

Supply air grilles and plenums



RDHV040015BKX

Wall type supply grille
- With horizontal and vertical adjustable flaps



RLQV040015BKX

Ceiling type supply grille
- With horizontal flaps angled at 15°
- Vertical flaps can be adjusted manually



PREJ0400150T

Plenum for supply grille
- To connect circular ducts to discharge grille
- Insulated, galvanised steel
- Diameter 250mm

Return air grilles and plenums



RRFR050050BTX

Return air grille with integrated filter
- Filters particles from the air



BR500

Plenum for return grille
- To connect 1 up to 4 circular ducts to the return air grille
- Diameter 250mm



AZCEZDAPR07*

Plenum for return air
- To connect 1 up to 4 circular ducts to the Daikin concealed ceiling units
- Diameter 250mm
- Different sizes (XS, S, M, L, XL) to fit the indoor unit



Daikin mAP

Digital interface for your HVAC equipment

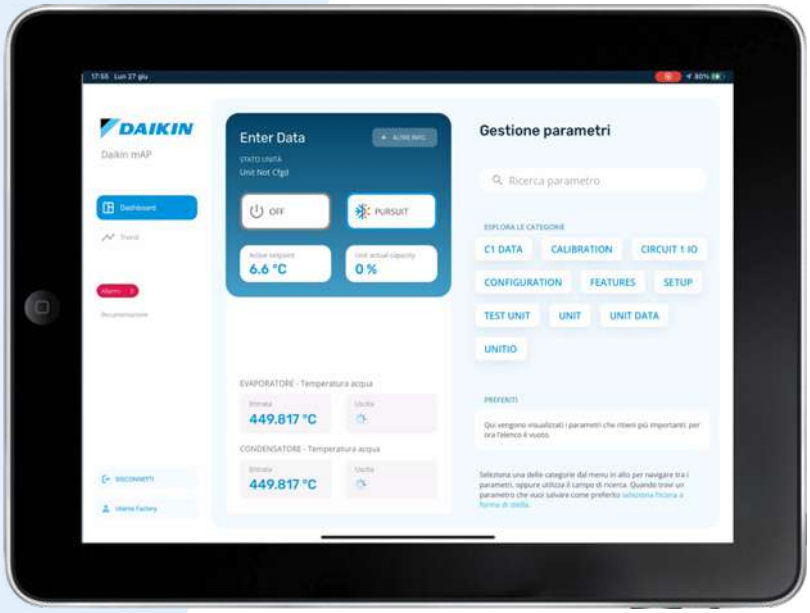
The Daikin mAP is the brand-new Digital HMI solution for all Daikin Applied products, designed to let end-users and technician operate easily and effectively from their smartphone or tablet while performing field activities.



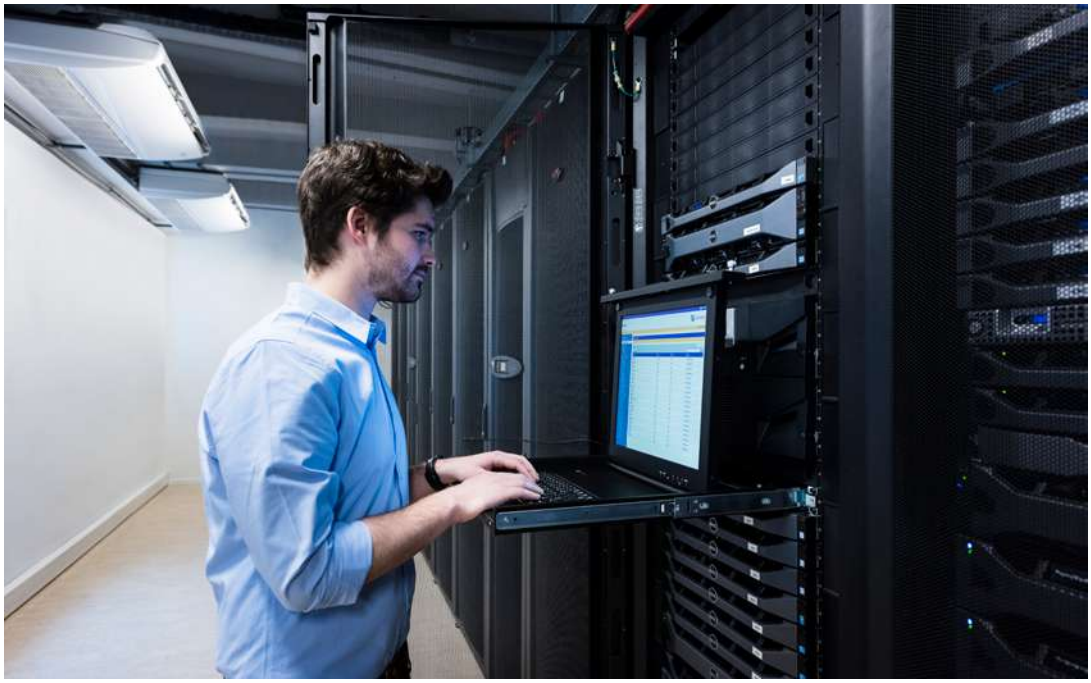
NEW

Digital Interface

The Daikin mAP is the brand-new Digital HMI solution for all Daikin Applied products, designed to let end-users and technician operate easily and effectively from their smartphone or tablet while performing field activities.









Control

Change settings and control parameters with more flexibility.

- ☑ Up to 4 user levels with different privileges
- ☑ Improved unit access security



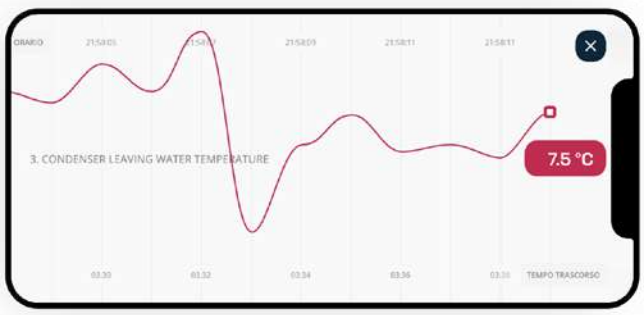
Select

Explore and search for a specific unit parameter.

- ☑ Search bar to easily find the desired parameter
- ☑ Select & change and pin in the dashboard your preferred parameters

Monitor

Start a live monitoring and trending of your preferred parameters



- ☑ Background monitoring for a non-stop operations
- ☑ Export and share monitoring data in .CSV file
- ☑ Up to 20 live trends and monitoring

Centralised remote controller

Centralised control of the Sky Air and VRV system can be achieved via 2 user friendly compact remote controllers. These controls may be used independently or in combination with:
- 1 group = several (up to 16) indoor units in combination
- 1 zone = several groups in combination.

A centralised remote control is ideal for use in tenanted commercial buildings subject to random occupation, enabling indoor units to be classified in groups per tenant (zoning).

DCS302C51

Centralised remote control



Providing individual control of 64 groups (zones) of indoor units.
- a maximum of 64 groups (128 indoor units, max. 10 outdoor units) can be controlled
- a maximum of 128 groups (128 indoor units, max. 10 outdoor units) can be controlled via 2 centralised remote controls in separate locations
- zone control
- group control
- malfunction code display
- maximum wiring length of 1,000m (total: 2,000m)
- air flow direction and air flow rate of HRV can be controlled
- expanded timer function

DCS301B51

Unified ON/OFF control

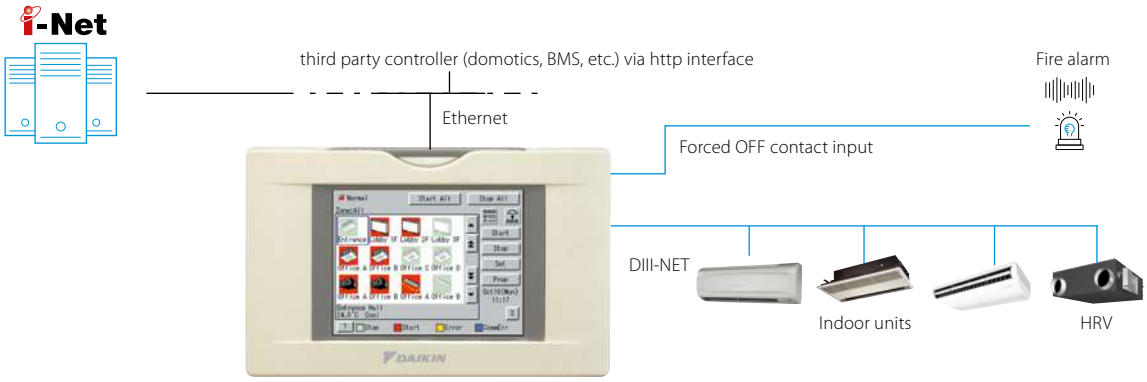


Providing simultaneous and individual control of 16 groups of indoor units.
- a maximum of 16 groups (128 indoor units) can be controlled
- 2 remote controls in separate locations can be used
- operating status indication (normal operation, alarm)
- centralised control indication
- maximum wiring length of 1,000m (total: 2,000m)

DCS601C51

intelligent Touch Controller

Detailed & easy monitoring and operation of VRV systems (max. 64 indoor units groups).



DCS601C51

Languages
- English
- French
- German
- Italian
- Spanish
- Dutch
- Portuguese

System layout
- Up to 64 indoor units can be controlled
- Touch panel (full colour LCD via icon display)

Control
- Individual control (set point, start/stop, fan speed) (max. 64 groups/indoor units)
- Set back shedule
- Enhanced scheduling function (8 schedules, 17 patterns)
- Flexible grouping in zones
- Yearly schedule
- Fire emergency stop control
- Interlocking control
- Increased HRV monitoring and control function
- Automatic cooling / heating change-over
- Heating optimization
- Temperature limit
- Password security: 3 levels (general, administration & service)
- Quick selection and full control
- Simple navigation

Monitoring
- Visualisation via Graphical User Interface (GUI)
- Icon colour display change function
- Indoor units operation mode
- Indication filter replacement

Cost performance
- Free cooling function
- Labour saving
- Easy installation
- Compact design: limited installation space
- Overall energy saving

Open interface
- Communication to any third party controller (domotics, BMS, etc.) is possible via open interface (http option DCS007A51)

Connectable to
- VRV
- HRV
- Sky Air
- Split (via interface adapter)

DCC601A51

intelligent Tablet Controller

Advanced centralised controller

- Intuitive and user-friendly interface
- Flexible concept for stand alone applications
- Total solution thanks to integration of 3rd party equipment

Local solution

- Offline centralised control
- Stylish optional screen fits any interior



System layout

Local solution





AL-CCD07-VESA-1

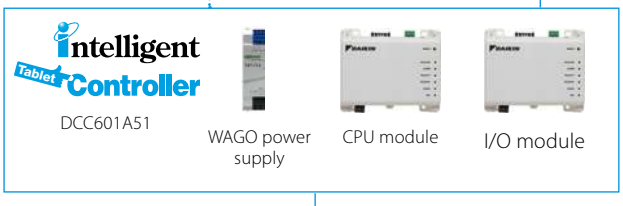


Alarm



Window contact

Pulse input or Digital input





Split, SkyAir, VRV, ventilation, air curtains

Total solution

- Total solution thanks to a large integration of Daikin products and 3rd party equipment
- Connect a wide range of units (Split, Sky Air, VRV, Ventilation, Biddle air curtains)
- Simply control your entire building centrally
- Increased customer shopping experience by better management of your shop comfort level

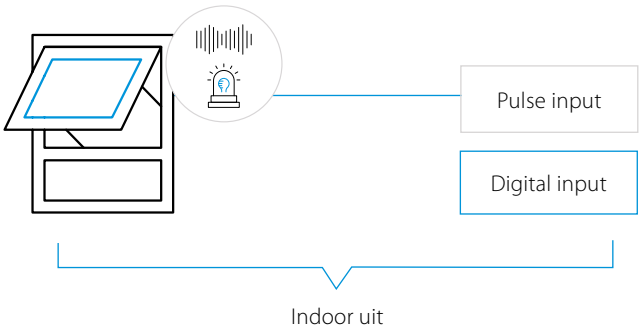
User friendly touch control

- Stylish Daikin supplied optional screen for local control fits any interior
- Intuitive and user-friendly interface
- Full solution with simple control
- Easy commissioning

Flexible

- Pulse/digital inputs for 3rd party equipment such as kWh meters, emergency input, window contact, …
- Control up to 32 indoor units per controller and 320 units per site

(1) only available in combination with certain indoor units



Functions overview

		Local solution
Languages		Depends on local device
System layout	N° of connectable indoor units	32
	Multiple sites control	
Monitoring & control	Basic control functions (ON/OFF, mode, filter sign, setpoint, fan speed, ventilation mode, room temperature, …)	•
	Remote control prohibition	•
	All devices ON/OFF	•
	Zone control	
	Group control	•
	Weekly schedule	•
	Yearly schedule	
	Interlock control	•
	Set point limitation	
	Visualisation of energy use per operation mode	
Connectable to	DX split, Sky Air, VRV	•
	Modular L Smart, VAM, VKM ventilation	•
	Air curtains	•

For available Daikin Cloud Service options refer to the option list

DCM601B51

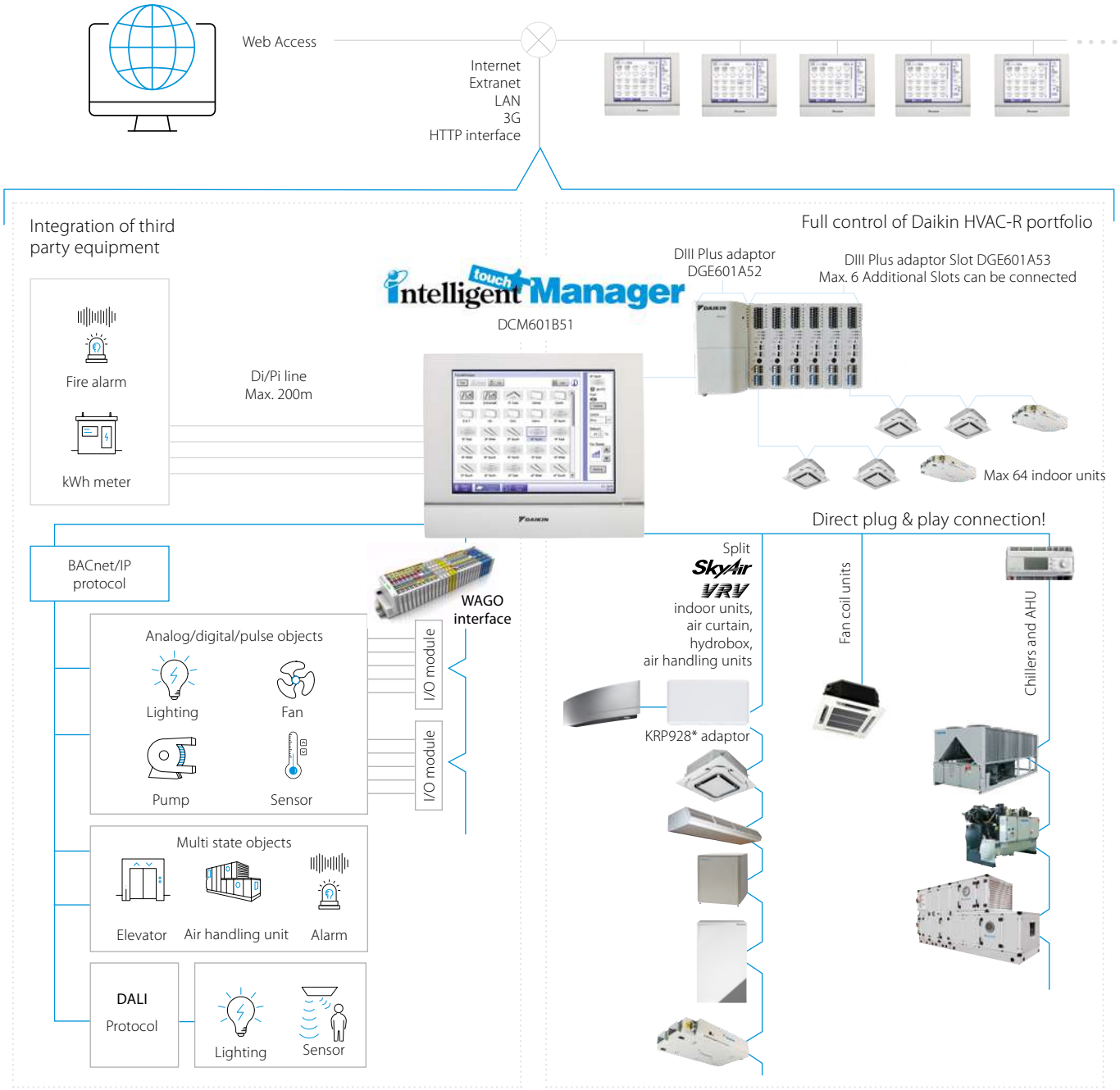
Mini BMS with full integration across all product pillars



touch Intelligent Manager

- Price competitive mini BMS
- Cross-pillar integration of Daikin products
- Integration of third party equipment

System overview

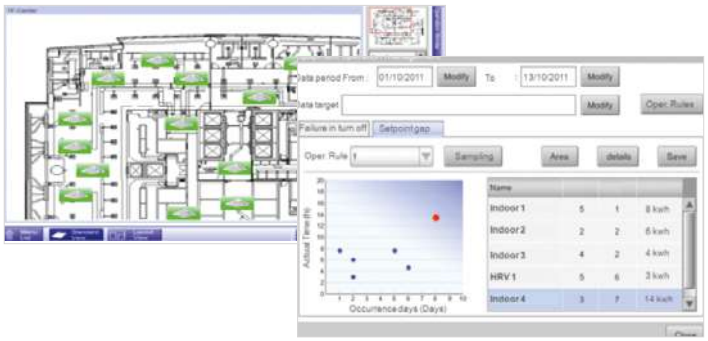


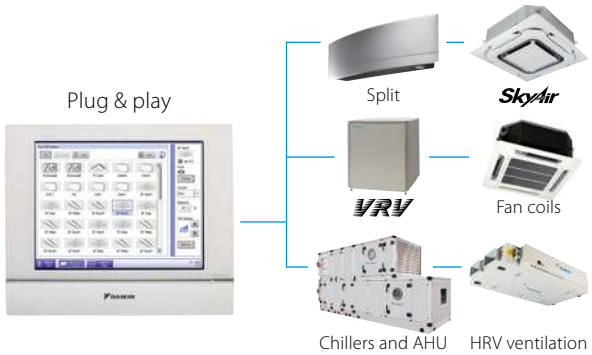
User friendliness
- Intuitive user interface
- Visual lay out view and direct access to indoor unit main functions
- All functions direct accessible via touch screen or via web interface
- Simplified electrical wiring, only one power supply & one connection wiring required

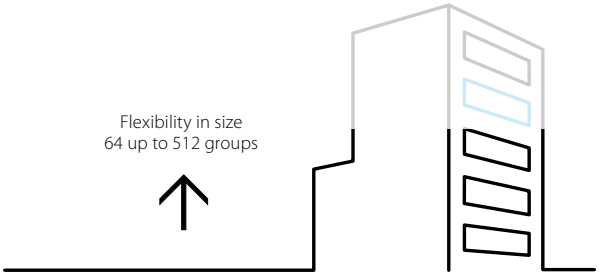
Smart energy management
- Monitoring if energy use is according to plan
- Helps to detect origins of energy waste
- Powerful schedules guarantee correct operation throughout the year
- Save energy by interlocking A/C operation with other equipment such as heating
- Peak Power Cut off Control: Activating this feature in schedule function allows users to operate the outdoor unit in 4 settings i.e. 100%,70%, 40% and 0%

Flexibility
- Cross-pillar integration (heating, air conditioning, applied systems, refrigeration, air handling units)
- BACnet protocol for 3rd party products integration
- I/O for integration of equipment such as lights, pumps… on WAGO modules
- Modular concept for small to large applications
- Manage multiple sites

Easy servicing and commissioning
- Remote refrigerant containment check reducing on site visit
- Simplified troubleshooting
- Save time on commissioning thanks to the pre-commissioning tool
- Auto registration of indoor units







Functions overview

Languages
- English
- French
- German
- Italian
- Spanish
- Dutch
- Portuguese

Control
- Group monitoring and control
- Schedule setting (Weekly schedule, yearly calender, seasonal schedule)
- Interlock control
- Setpoint limitation
- Temperature limit
- Schedule function to activate quiet operation mode on outdoor unit
- Air purification control & Air quality level display (CO_2 level display possible with BRYMA sensor)
- Duty rotation and backup operation
- Remote control prohibition
- Demand control

Management
- Multi site management
- Web access via html 5
- Power Proportional Distribution (option)
- Operational history (malfunctions, …)
- Smart energy management
- monitor if energy use is according to plan
- detect origins of energy waste
- Setback function
- Sliding temperature
- E-mail notification
- Icon and Floor map view

System layout
- Up to 512 indoor unit groups can be controlled (ITM + 7 iTM Plus adapters)
- Up to 56 connectable outdoor units
- Up to 650 connectable management points (with I/O module)

WAGO Interface
- Modular integration of 3rd party equipment
- Large variety of input and outputs available. For more details refer to the options list

DALI integration
- Control and monitor the lights
- Easier facility management: receive error signal when light or light controller has a malfunction
- Flexible approach and less wiring needed, compared to classic light scheme
- Easier to make groups and control scenes
- Connection between intelligent Touch Manager and DALI through WAGO BACnet / IP interface

Open http interface
- Communication to any third party controller (domotics, BMS, etc.) is possible via http open interface (http option DCM007A51)

Connectable to
- DX Split, Sky Air, VRV
- HRV
- Chillers (via MT3-EKCMBACIP controller)
- Daikin AHU (via MT3-EKCMBACIP controller)
- Fan coils
- LT and HT hydroboxes
- Biddle Air curtains
- WAGO I/O
- BACnet/IP protocol
- Daikin PMS interface (option DCM010A51)



Daikin Cloud Plus

Daikin Cloud Plus is a cloud-based remote control and monitoring solution for Daikin commercial HVAC installations. Using enhanced control, monitoring and predictive logic, Daikin Cloud Plus provides real-time data and support from Daikin experts to help you identify cost-saving opportunities, increase the lifetime of your equipment and reduce the risk of unexpected issues.

Benefits

Easy control of multiple sites
- Remote control and manage sites remotely
- Floor plan control per site
- Multi-site access
- Permission based access

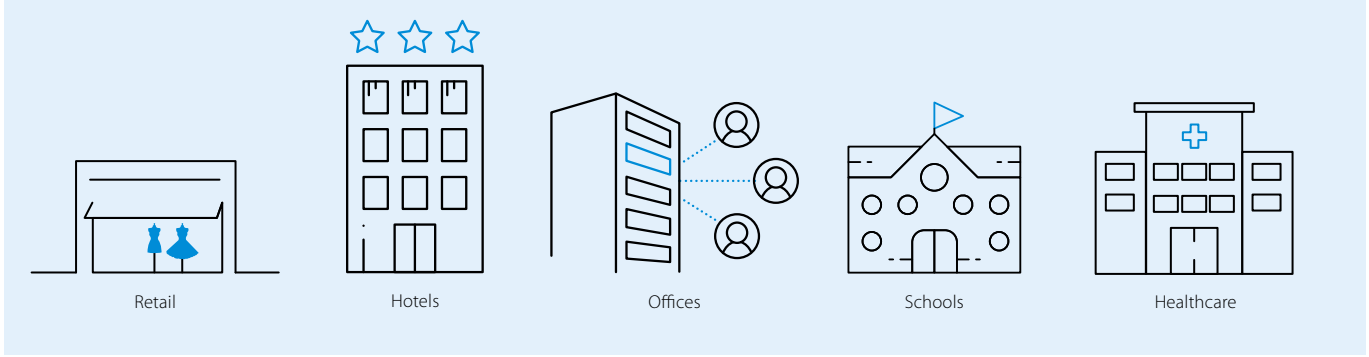
Connectivity and integration possibilities
- Simple to advanced edge controllers
- Various interfaces
- Advanced security

Save energy & meet sustainability goals
- Monitor energy consumption trends
- Smart control of systems to save energy
- Insights to improve HVAC system performance
- Reduced costs
- Contribute to carbon neutrality

Manage, monitor and control indoor climate from anywhere
- Limits the necessity for on-site control
- Minimises downtime and engineer call outs
- Optimised maintenance
- Monitoring of indoor air quality

Main applications

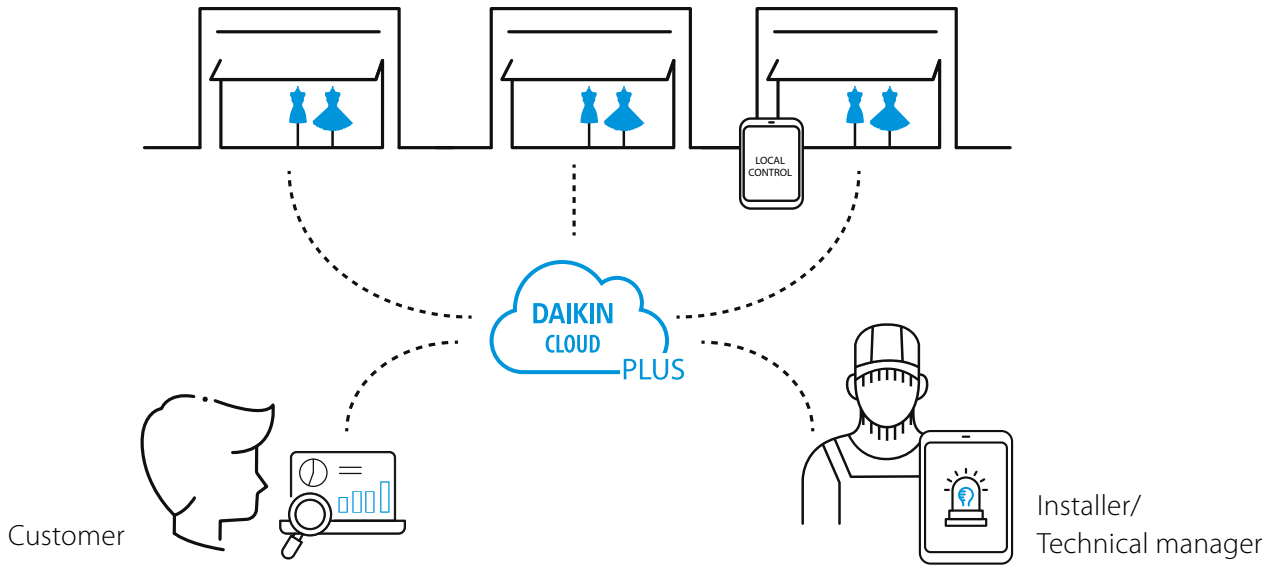
Light commercial and commercial systems



The ultimate control over your indoor climate and air quality
- Save energy & reduce costs
- Enhance comfort & satisfaction
- Smart control from anywhere
- Ensure healthy indoor environment
- Maximise uptime (remote prediction, monitor & diagnose)
- Integrates easily with building systems

Supporting your business and helping you succeed
- Maximise comfort and satisfaction of your staff, customers, tenants, …
- Save energy & reduce costs
- Facilitate your sustainability goals
- Cost effective control and energy monitoring of HVAC and other facility systems such as lighting
- Limits the necessity for on-site interventions
- Minimises downtime and engineer call outs

From one to ∞ sites



Interfaces

- Daikin Cloud Plus connects with Daikin units for commercial applications: Daikin VRV and Skyair range, Ventilation, Air curtains
- Connection over BACnet with Air handling units, Chillers and 3rd party systems possible
- Daikin AIQ sensor integration
- Connection with other facilities in the building f.ex. lights through I/O and Wago interfaces possible
- Connection with energy meters possible
- Compatible to co-exist with other gateways and interfaces in the system
- Integration via other gateways, Daikin Cloud Plus as part of the system



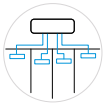


What needs do we solve?



Were you aware that HVAC systems account for as much as 40% of the total energy consumption in buildings?

- Daikin Cloud Plus logs historical data and allows you to monitor, compare HVAC consumption
- Daikin Cloud Plus allows you to integrate with energy meters so you can monitor not only HVAC but also other energy consumers (facility, gas, water, …)
- Daikin Cloud Plus allows you to configure and control the system smarter to save energy with restrictions, "if this than that" rules, schedules, etc.



How to manage and remote control one or multi-site building estate and apply uniformisation in climate control?

- Daikin Cloud Plus allows you to monitor, manage and control multiple sites from anywhere
- Daikin Cloud Plus allows to compare multiple sites



Are you interested in tracking the progress of sustainability goals or the sustainability policies you put into action?

- Daikin Cloud Plus allows you to monitor, analyse and compare HVAC energy consumption
- Daikin Cloud Plus allows you to remote control and manage new cooling or heating related policies (e.g. heating setpoint of 1° lower)



How give peace of mind about indoor air quality?

- Daikin Cloud Plus integrates with IAQ sensors and can take automated actions or provide warnings where needed
- Daikin Cloud Plus allows to monitor and analyse the indoor air quality in order to take necessary actions



How do you ensure maximum comfort and minimal interruptions of cooling and heating?

- Daikin Cloud Plus can predict failures to anticipate and prevent unplanned downtime of the heating or cooling
- Daikin Cloud Plus real-time system error notifications to ensure a direct response in case something goes wrong
- Daikin Cloud Plus logs all events in the system and visualised the temperature evolutions
- Daikin Cloud Plus remote system access to indoor and outdoor unit operational data reduces engineering visits on site



How to control my other systems at the facility?

- Daikin Cloud Plus provides possibilities to integrate with other facility systems as a stand-alone system, such as integration with lighting system
- Daikin Cloud Plus provides possibilities to integrate with other facility management systems like BMS or BEMS

Main features

Remote Control, Demand Control and Scheduling

Control and monitor the climate of your buildings at any time, from anywhere. From a web browser, it is possible to adjust your units' parameters, including temperature setpoints, fan speeds, heating or cooling operation modes and much more. All these parameters can be scheduled for maximum convenience during weekdays, weekends, holidays, office hours, opening hours, etc. Schedules are stored on the controller so the units are functioned as scheduled despite the internet connection. Additionally, units can be positioned in a visual floor plan to make it easier to locate an unit and change the setpoints remotely. Demand control reduces the peak consumption with minimal impact on comfort by predicting future needs and adjusting the operational capacity of the units accordingly.

Energy Monitoring

Get detailed visualisation and export energy data of your buildings. Powerful graphs, comparisons and visualisations are available to help you assess the performance and potential improvements to reduce excessive energy and lower your energy costs. Next to detailed energy data of HVAC systems, it is possible to add external meters to measure consumption of lighting and water systems.

Interlocking

Smart rules can be integrated to optimise the operation of your units by setting specific triggers and scheduling necessary actions when these conditions happen. Through "if this, then that" principle, both the comfort of users and the efficiency of units can be optimised. For example, a rule can be: "If a window is open, then after 5 minutes, turn off the air-conditioner". Furthermore, the system enables setting restrictions remotely. For example, a user can only change the temperature between certain limits, which gives users control over their comfort while restricting extreme settings.

Multi-site Management

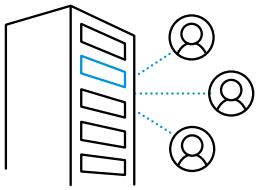
Get a map view of all your sites with status alerts, benchmark and compare sites to one another. From the map view, you can get direct access to each site to monitor and control the site remotely. This helps to reduce site visits and get insights that lead to opportunities for reducing operational costs while maintaining great comfort levels.

Building Integration

Not only HVAC but other facilities in the buildings can be controlled from the central platform. For example, the lighting system can be included in schedules and integrated with interlocking to have one single point of control and optimise energy efficiency for your buildings.

Use cases





For offices

- Setting temperature ranges for office areas to avoid extreme settings by staff
- Detailed energy monitoring and export of data per tenant of different office areas
- Estimation of energy consumption and setting the right pricing for each tenant
- Scheduling and restrict controls to avoid energy waste and save energy costs

Alarm Email Notification

Receive alarm notifications for your sites and stay updated on alarm statuses. View active alarms in the platform and receive email notification containing information about the alarms on the Daikin Cloud Plus platform.

Power Consumption Distribution

Proportional distribution of power consumption allows you to calculate the consumption for specific areas in your buildings. For example, you can calculate how much power is used by a tenant on a certain floor. For this function, energy meters are required.

Remote Field Settings

Field settings of outdoor units can be adjusted remotely. This allows technicians and building operators to adjust, configure and monitor outdoor units from a distance, reducing the need to be at the location, save time and costs associated with travel, labour and maintenance, increase efficiency and overall performance.

Site and Alarm History

Trace schedule trigger units or manual actions that were done on the units and sites. Past events, changes, and adjustments, enabling you to identify trends, gauge performance improvements, and strategise for the future. By drawing from historical data, you'll make informed decisions, adapt strategies, and drive continuous enhancements, revolutionising your HVAC management approach. Get detailed overview of alarms relating to your sites and real-time status of the alarms.

Prediction & Email Notification

Early fault predictive algorithms help to prevent major failures. Based on the alarm and operational data, unit-specific prediction logic allows you to preventively, see whether a unit could run into issues. Prediction logic alarms will be generated in this case, allowing early warnings and ensuring smooth operation.

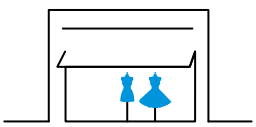
Operational Data Access

Effortlessly monitor, analyse, and fine-tune HVAC parameters remotely, enabling you to make informed decisions on the go. Real-time access to operational data, performance metrics, and energy usage empowers you to adjust settings, troubleshoot anomalies, and maintain peak efficiency, all while minimising the need for physical intervention. Operational data can be downloaded for further analysis and periodical reporting.

Indoor & Outdoor Unit Analysis

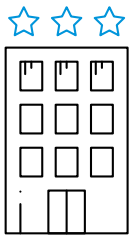
Dive into comprehensive insights into each unit's performance, energy consumption, and environmental impact. Seamlessly compare data across units, pinpointing inefficiencies and optimising your system's overall effectiveness. With a holistic view of indoor and outdoor units, you'll achieve unprecedented levels of operational harmony and energy savings.

* Features depend on unit compatibility and region.
Images are indicative and might change if the product evolves.



For retailers

- Remote control and monitoring of all units in different shops from a centralised platform
- Testing and validating parameters and standardising settings for shops
- Energy visualisations and exports
- Remote control over lightings



For hotels

- Setting temperature ranges for rooms to avoid extreme settings by guests
- Energy monitoring
- Scalability made easier thanks to standardised system settings

Chiller Intelligent Manager

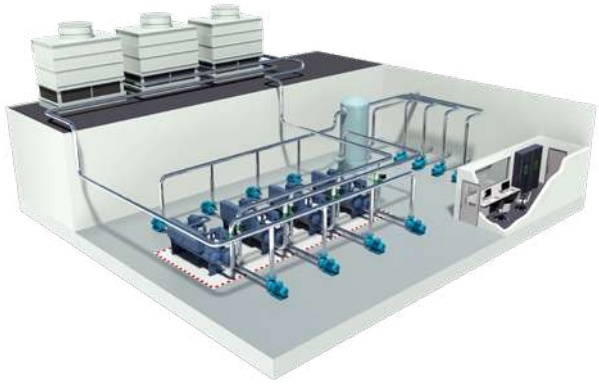
Factory-engineered system control to manage a chiller plant room

Thus optimising its performance and increasing its reliability by:
- Optimal start-up, sequencing & staging of chillers
- Matching chiller capacity to load demand

iCM's main functionalities:

Availability
Determines whether chillers are available or not, based on:
- Inputs from the chiller unit controllers
- Modbus communication status
- Pump status

Sequencing
Optimises the order in which available chillers are turned on and off depending on operating hours, energy efficiency, etc.



Staging
Calculates **energy-optimal stage-up/stage-down** of the chiller by determining the increased capacity demand by capacity control, compensation of temperature and rotation. This function aims at providing the most energy-efficient combination of chillers on a continuous basis.

Stopping Last Chiller/Recycling
Captures a rise in demand when the **last chiller is staged down,** by operating the pump dedicated to the next ON chiller at a minimum VFD frequency.

Min/Max Operating Chiller Setting
Ensures that the number of operating chillers always **stays within a certain range,** regardless of changes in demand.

Primary Pump control
Primary evaporator and condenser pump control for dedicated and manifolded pumps thanks to iPM panel

Secondary Pump Control
Control of up to 12 secondary circuits thanks to iSM panel extension

Cooling Tower Optimization
Control and Optimization of Cooling Tower systems thanks to iCT extension modules.

Remote Connection through Daikin on Site
24/7 monitoring and control of iCM plants through Daikin on Site cloud service.

Why choose iCM?

- Optimise performance
- Increase reliability
- Reduce energy costs
- Reduce maintenance costs
- Factory-engineered and tested
- Remote control and monitoring. From one-time commissioning to real-time commissioning

Daikin is the best qualified partner to optimise the operation of a Daikin chiller plant room.

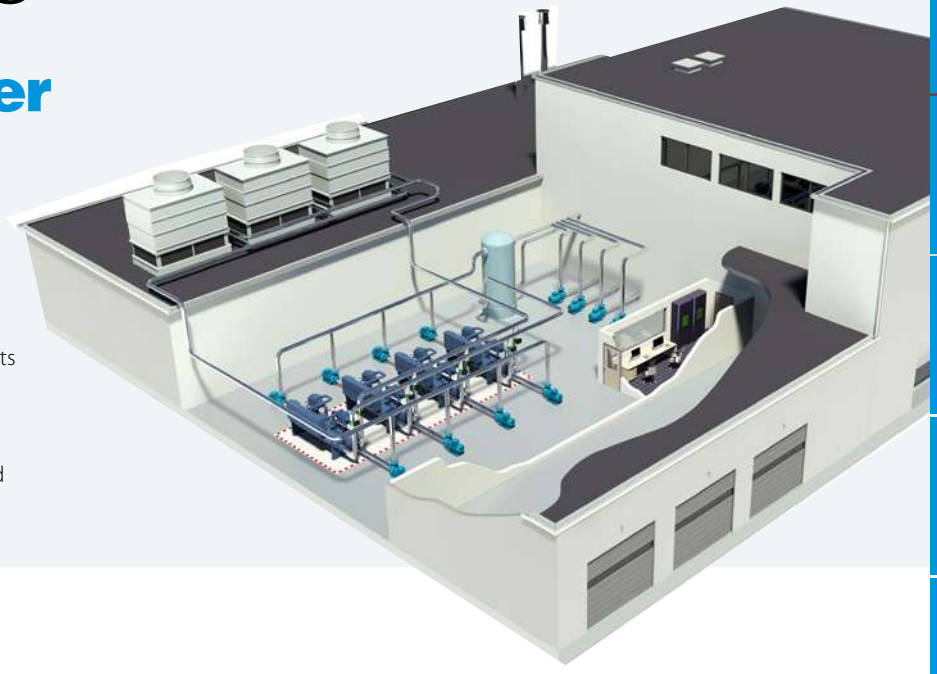
Remote control and monitoring possibilities

(valid for both Standard and Customised versions)

- **Connectivity to Daikin's remote monitoring and control system** (www.daikinonsite.com) for remote monitoring and service providing Internet connection to the main controller
- **Integration with general BAS/BMS** offered through BACnet or Modbus Modules based on BACnet/IP or Modbus RTU/RS-485 protocols
- **Built-in HMI, Remote HMI, Web HMI and daikinonsite.com** are available for control and configuration

Integrated logics for Plant Management

Chiller intelligent Manager



Key Benefits

- High performance
- Lower energy & Maintenance Costs
- Increase reliability & lifetime
- Remote control and monitoring through Daikin on Site
- No additional installation required

Control strategies

Advanced control strategies can be chosen to optimise units life time and the energy efficiency of a chillers plant:

- by sequencing it is decided which unit must start or stop
- by staging the unit shares the load based on a threshold specified by the user

Control options

iCM can manage:

- Up to 16 units Heating/Cooling mode, with iCM expanded kit
- Up to 8 units Heating/Cooling mode
- Special control options such as: VPF, Demand Limit, Rapid Restart are managed by iCM in a multiple unit system
- Heat recovery option management
- Free cooling option management
- Manifolded pumps management (evaporator/condenser) – iPM control panel is required
- Cooling tower system management – iCT control panel is required
- Secondary circuits management - iSM control panel is required

What are the main differences between Master/Slave and iCM?

For Daikin unit equipped with MT4, iCM are set of functions embedded directly in the unit controller. In addition for those applications not covered by the embedded functions, iCM customized are also available.

While Master/Slave can manage systems composed by units model of the same type, iCM can manage cooling, heating and plants made of different kind of units

Feature	Master/Slave	New iCM
Number of chillers	UP TO 2	UP TO 16
Plants with All Chillers	same models	YES
Plants with all Heat Pumps	same models	YES
Plants with Multipurpose	YES	YES
Mix of Chillers (max 2 circuits) + Multipurpose	NO	**YES**
Mix of Chillers + Heat Pumps	NO	**YES**
Chillers with Heat Recovery	NO	**YES**
Chillers with free cooling	NO	**YES**
Units with modulable capacity control	YES	YES
Units with step capacity control	YES	YES

Product line-up

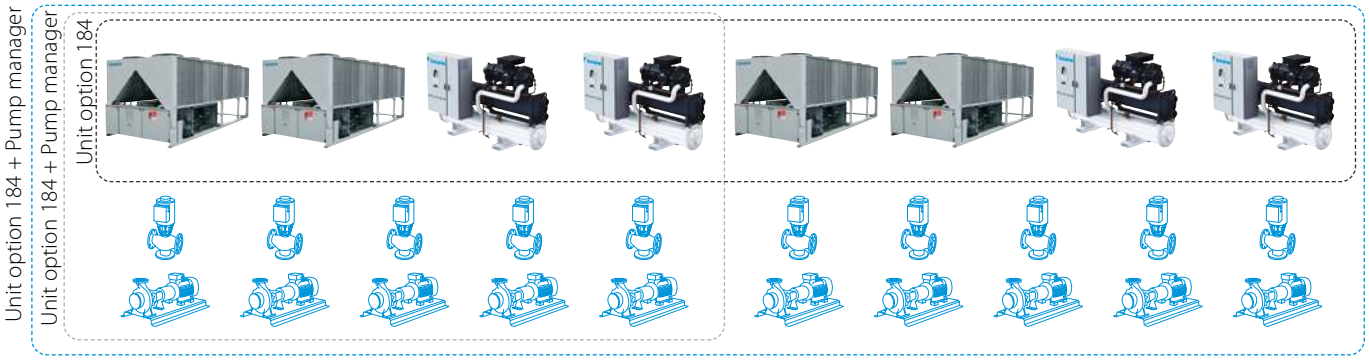
Chiller intelligent Manager

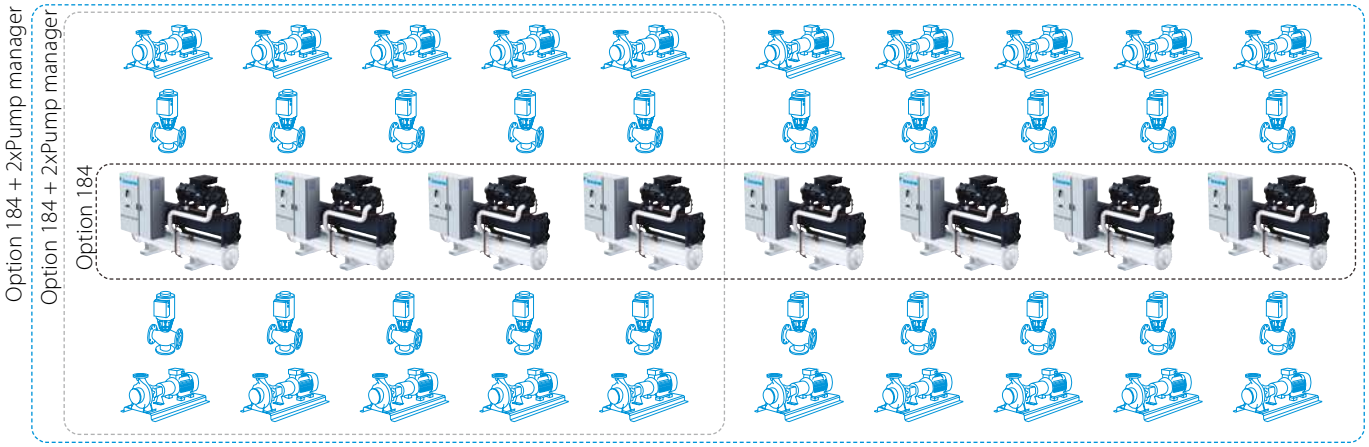
iCM as unit option 184 (up to 16 with iCM expanded kit):
- Up to 8 daikin chillers
- Mixed systems (Chiller + heat pumps or chillers + multipurpose)
- Heating/cooling operating modes
- Heat recovery and Free cooling management
- Units with modulable and step capacity control

Intelligent Pump Manager:
- Up to 5 dedicated or manifolded pumps (evaporator or condenser)
- Up to 10 dedicated or manifolded pumps (evaporator or condenser)

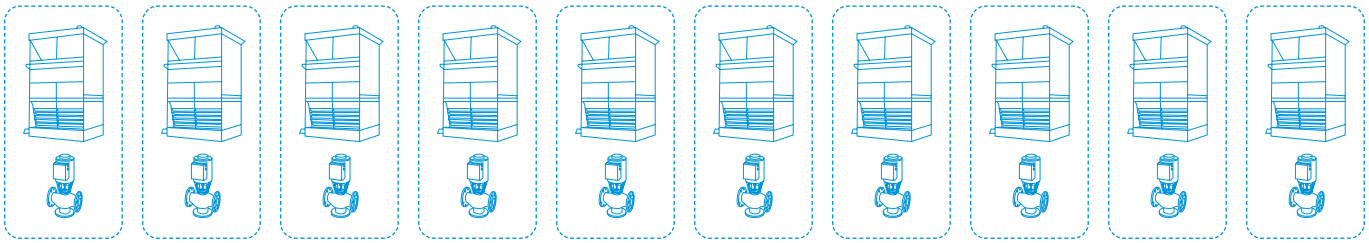
Intelligent Cooling Tower Manager:
- Up to 10 manifolded cooling towers (available with Pump Manager at the condenser side)

intelligent Secondary Circuits Manager:
- Up to 8 pumps divided in up to 4 pump groups (up to 3 ism can be connected for a total of 12 pump groups and 24 secondary pumps)





Up to 10 **Cooling tower manager** (only available with **Pump manager** at the condensor side)



Up to 3 **Intelligent secondary manager** (each iSM can control up to 4 pump groups and up to 8 pumps)



DAIKIN

Individual Modbus interfaces

RTD-RA
- Modbus interface for monitoring and control of residential indoor units

DAIKIN MODBUS ADAPTOR SIMPLE (EKMBPP1A) NEW
- Modbus interface for monitoring & control of Sky air, VRV & ventilation units.
- Smart grid control for Sky air indoor units.

RTD-10
- Advanced integration into BMS of Sky Air, VRV, VAM and VKM through either:
  - Modbus
  - Voltage (0-10V)
  - Resistance
- Duty/standby function for server rooms

RTD-20
- Advanced control of Sky Air, VRV, VAM/VKM and air curtains
- Clone or independent zone control
- Increased comfort with integration of CO_2 sensor for fresh air volume control
- Save on running costs via
  - pre/post and trade mode
  - set point limitation
  - overall shut down
  - PIR sensor for adaptive deadband

RTD-HO
- Modbus interface for monitoring and control of Sky Air, VRV, VAM and VKM
- Intelligent hotel room controller

RTD-W
- Modbus interface for monitoring and control of Daikin Altherma Flex Type, VRV HT hydrobox and small inverter chiller

Daikin HomeHub EKRHH NEW
- Modbus RTU connectivity
- Configuration, control and feedback through the MMI of the Daikin Altherma or Multi+ (DHW) tank

DCOM-LT/MB
- Modbus interface of Daikin Altherma air-to-water heat pumps, hybrid heat pumps and ground source heat pumps

DCOM/LT-IO
- Voltage & resistance control in addition to Modbus



Overview functions







Main functions			RTD-RA	EKMBPP1A	RTD-10	RTD-20	RTD-HO
Dimensions	HxWxD	mm	80x80x37.5	100x100x20		100x100x22	
Key card + window contact							✓
Set back function			✓				✓
Prohibit or restrict remote control functions (setpoint limitation, ...)			✓	✓	✓	✓**	✓
Modbus (RS485)			✓	✓	✓	✓	✓
Group control			✓(1)	✓	✓	✓	✓
0 - 10 V control					✓	✓	
Resistance control					✓	✓	
IT application			✓		✓		
Heating interlock					✓	✓	
Output signal (on/defrost, error)					✓	✓****	✓
Retail application						✓	
Partitioned room control						✓	
Air curtain				✓***	✓***	✓	

(1): By combining RTD-RA devices

Control functions	RTD-RA	EKMBPP1A	RTD-10	RTD-20	RTD-HO
On/Off	M,C	M	M,V,R	M	M*
Set point	M	M	M,V,R	M	M*
Mode	M	M	M,V,R	M	M*
Fan	M	M	M,V,R	M	M*
Louver	M	M	M,V,R	M	M*
HRV Damper control		M	M,V,R	M	
Prohibit/Restrict functions	M	M	M,V,R	M	M*
Forced thermo off	M				
Smart Grid Control		M			

Monitoring functions	RTD-RA	EKMBPP1A	RTD-10	RTD-20	RTD-HO
On/Off	M	M	M	M	M
Set point	M	M	M	M	M
Mode	M	M	M	M	M
Fan	M	M	M	M	M
Louver	M	M	M	M	M
RC temperature		M	M	M	M
RC mode		M	M	M	M
N° of units		M	M	M	M
Fault	M	M	M	M	M
Fault code	M	M	M	M	M
Return air temperature (Average/Min/Max)	M	M	M	M	M
Filter alarm		M	M	M	M
Termo on	M	M	M	M	M
Defrost		M	M	M	M
Coil In/Out temperature	M	M	M	M	M




Main functions			RTD-W
Dimensions	HxWxD	mm	100x100x22
On/off prohibition			✓
Modbus RS485			✓
Dry contact control			✓
Output signal (operation error)			✓
Space heating / cooling operation			✓
Domestic hot water control			✓
Smart Grid control			
Control functions			
On/Off Space heating/cooling			M,C
Set point leaving water temperature (heating / cooling)			M,V
Room temperature setpoint			M
Operation mode			M
Domestic Hot water ON			
Domestic Hot Water reheat			M,C
Domestic Hot Water reheat setpoint			
Domestic Hot Water storage			M
Domestic Hot Water Booster setpoint			
Quiet mode			M,C
Weather dependent setpoint enable			M
Weather dependent curve shift			M
Fault/pump info relay choice			
Control source prohibition			M
Smart grid mode control			
Prohibit Space heating/cooling			
Prohibit DHW			
Prohibit Electric heaters			
Prohibit All operation			
PV available for storage			
Powerful boost			
Monitoring functions			
▪ On/Off Space heating/cooling			M,C
▪ Set point leaving water temperature (H/C)			M
▪ Room temperature setpoint			M
▪ Operation mode			M
▪ Domestic Hot Water reheat			M
▪ Domestic Hot Water storage			M
▪ Number of units in the group			M
▪ Average leaving water temperature			M
▪ Remocon room temperature			M
▪ Fault			M,C
▪ Fault code			M
▪ Circulation pump operation			M
▪ Flow rate			
▪ Solar pump operation			
▪ Compressor status			M
▪ Desinfection operation			M
▪ Setback operation			M
▪ Defrost/ start up			M
▪ Hot start			
▪ Booster Heater operation			
▪ 3-Way valve status			
▪ Pump running hours accumulated			M
▪ Compressor running hours accumulated			
▪ Actual leaving water temperature			M
▪ Actual return water temperature			M
▪ Actual DHW tank temperature (*)			M
▪ Actual refrigerant temperature			
▪ Actual outdoor temperature			M

Control functions	EKRHH
Leaving water main heating or cooling setpoint	✓
Operation mode	✓
Space heating/cooling ON/OFF	✓
Room thermostat control heating or cooling setpoint	✓
Room thermostat ON/OFF	✓
Quiet mode ON/OFF	✓
DHW reheat set point	✓
DHW reheat ON/OFF	✓
DHW powerful mode ON/OFF	✓
Weather dependent mode and offset	✓
SG operation mode	✓
Power limit during recommended on / buffering	✓
General power limit	✓
Monitoring functions	
Error code	✓
Circulation pump running	✓
Compressor running	✓
Backup heater running	✓
Disinfection operation	✓
Defrost/startup/hot start	✓
Operation mode	✓
Leaving water temperature PHE/BUH	✓
Return water temperature	✓
Domestic hot water temperature	✓
Ambient temperature	✓
Liquid refrigerant temperature	✓
Flowrate	✓
Room temperature	✓
Heat pump power consumption	✓
DHW operation / space heating operation	✓
Leaving water temperature lower and upper limit	✓

M: Modbus / R: Resistance / V: Voltage / C: control | *: only when room is occupied / **: setpoint limitation / (*) if available | ***: no fan speed control on the CYV air curtain / ****: run & fault

EKMBDXB

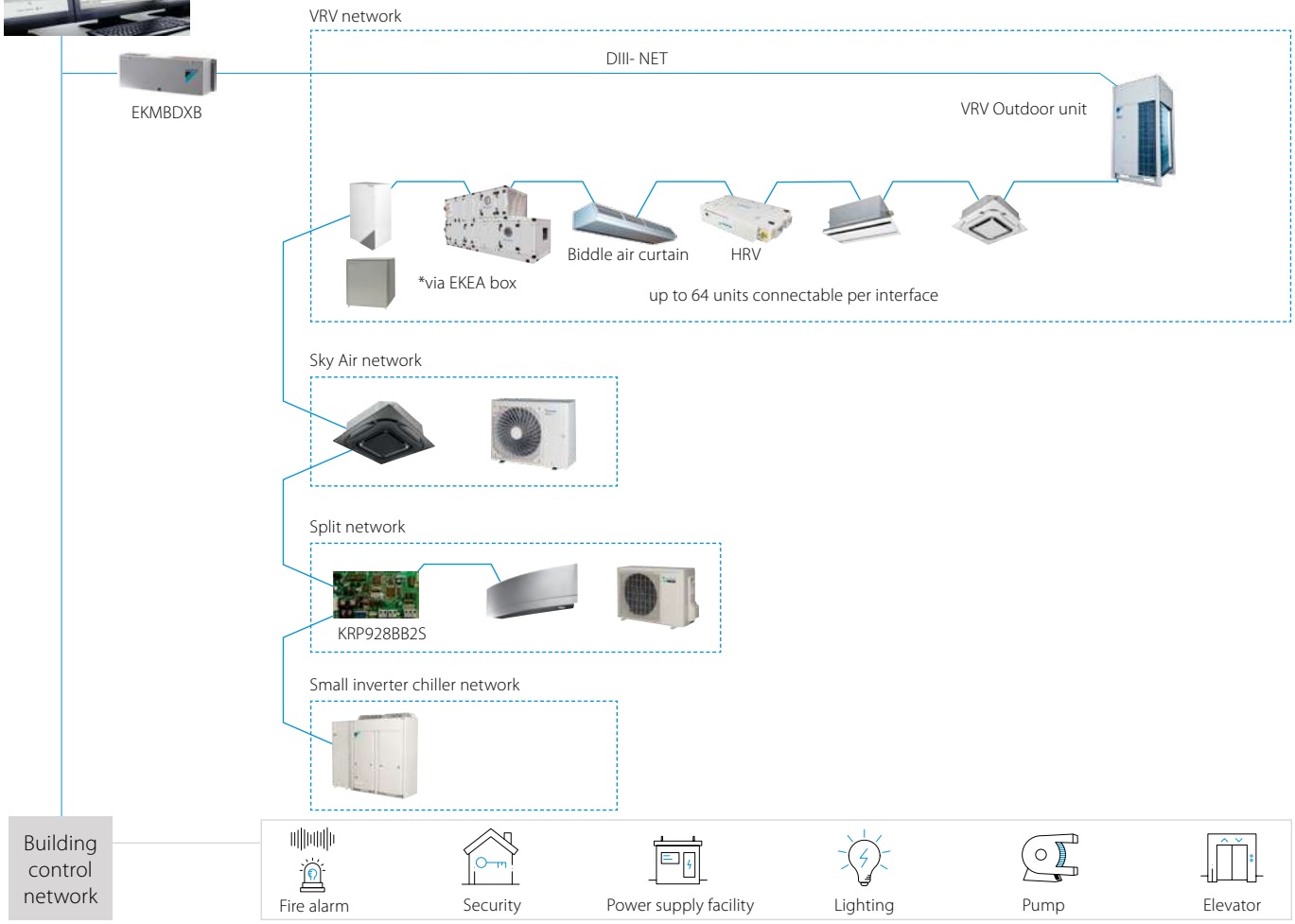
DIII-net Modbus interface

Integrated control system for seamless connection between Split, Sky Air, VRV and small inverter chillers and BMS systems

- Communication via Modbus RS485 protocol
- Detailed monitoring and control of the VRV total solution
- Easy and fast installation via DIII-net protocol
- As the Daikin DIII-net protocol is being used, only one modbus interface is needed for a group of Daikin systems (up to 10 outdoor units systems).



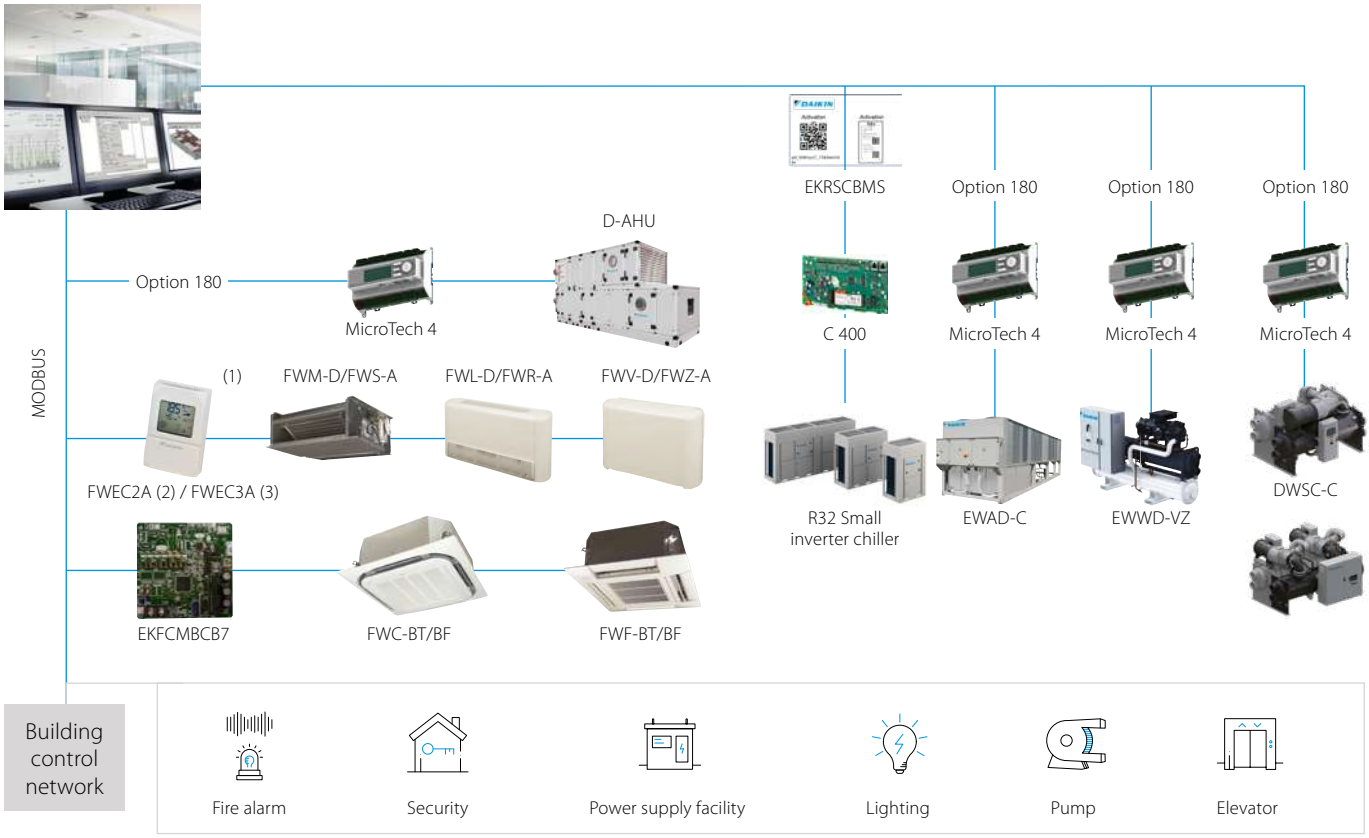




			EKMBDXB7V1
Maximum number of connectable indoor units			64
Maximum number of connectable outdoor units			10
Communication	DIII-NET - Remark		DIII-NET (F1F2)
	Protocol - Remark		2 wire; communication speed: 9,600 bps or 19,200 bps
	Protocol - Type		RS485 (modbus)
	Protocol - Max. Wiring length	m	500
Dimensions	HeightxWidthxDepth	mm	124x379x87
Weight		kg	2.1
Ambient temperature - operation	Max.	°C	60
	Min.	°C	0
Installation			Indoor installation
Power supply	Frequency	Hz	50
	Voltage	V	220-240

Modbus interface

Integrate chillers, fan coil units and air handling units in BMS systems via modbus protocol



(1) The communication module is integrated in the controller (2) Connection to FWV-D, FWL-D & FWM-D (3) Connection to FWV-D, FWL-D, FWM-D and to FWZ-A, FWR-A, FWS-A

Integrate Refrigeration units in BMS systems via modbus protocol

BRR9A1V1



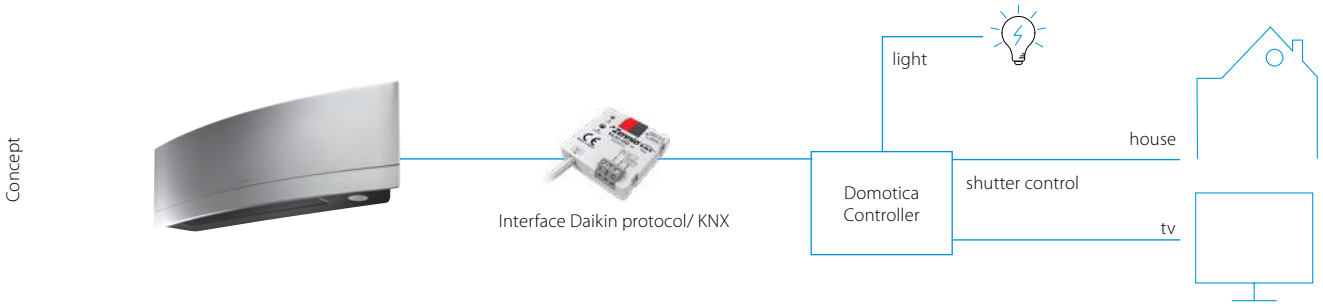
* For all connectable indoor units and Biddle air curtains please refer to the Conveni-pack pages in this catalogue

KLIC-DDV3
KLIC-DI_V2

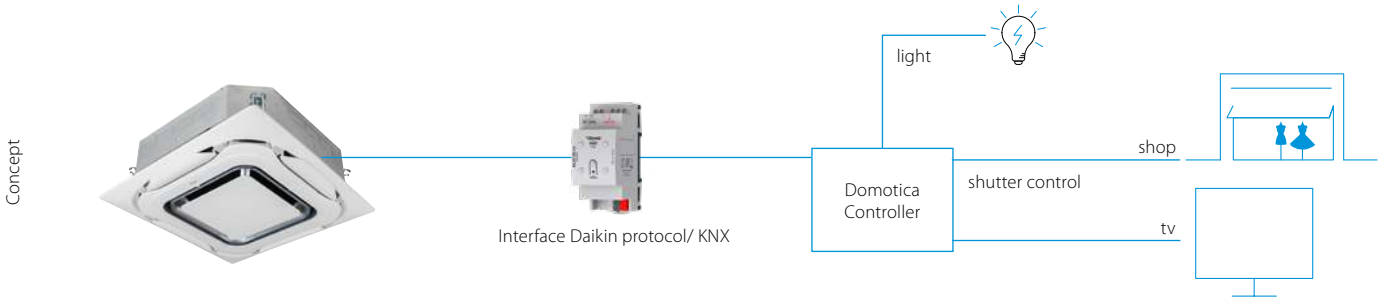
KNX interface

Integration of Split, Sky Air and VRV in HA/BMS systems

Connect split indoor units to KNX interface for Home Automation system



Connect Sky Air / VRV indoor units to KNX interface for BMS integration



KNX interface line-up

The integration of Daikin indoor units through the KNX interface allows monitoring and control of several devices, such as lights and shutters, from one central controller. One particularly important feature is the ability to programme a 'scene' - such as "Home leave" - in which the end-user selects a range of commands to be executed simultaneously once the scenario is selected. For instance in "Home leave", the air conditioner is off, the lights are turned off, the shutters are closed and the alarm is on.

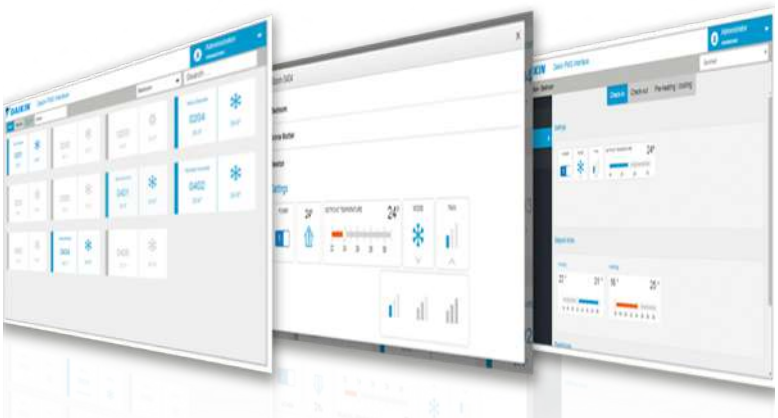
KNX interface for

	 KLIC-DDV3 size 45x45x15mm	 KLIC-DI_V2 size 90x60x35mm	
	Split	**Sky Air**	**VRV**
Basic control			
On/Off	•	•	•
Mode	Auto, heat, dry, fan, cool	Auto, heat, dry, fan, cool	Auto, heat, dry, fan, cool
Temperature	•	•	•
Fan speed levels	3 or 5 + auto	2 or 3	2 or 3
Swing	Stop or movement	Stop or movement	Swing or fixed positions (5)
Advanced functionalities			
Error management	Communication errors, Daikin unit errors		
Scenes	•	•	•
Auto switch off	•	•	•
Temperature limitation	•	•	•
Initial configuration	•	•	•
Master and slave configuration		•	•

DCM010A51

PMS Interface

Hotel interface connecting Daikin HVAC Property Management Systems



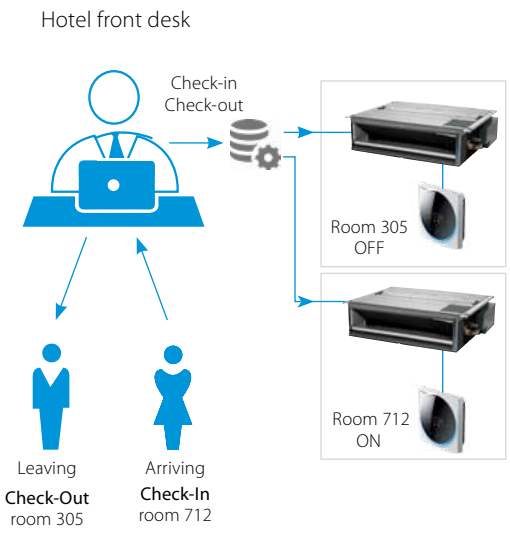
Room view showing room status: check-in, check-out, pre-heating / cooling status, room temperature and A/C status

HVAC settings can be easily observed and changed by the reception desk

Multiple room types (bed-room, meeting room, …) can be defined with customized A/C settings for each type

Hotel case example:

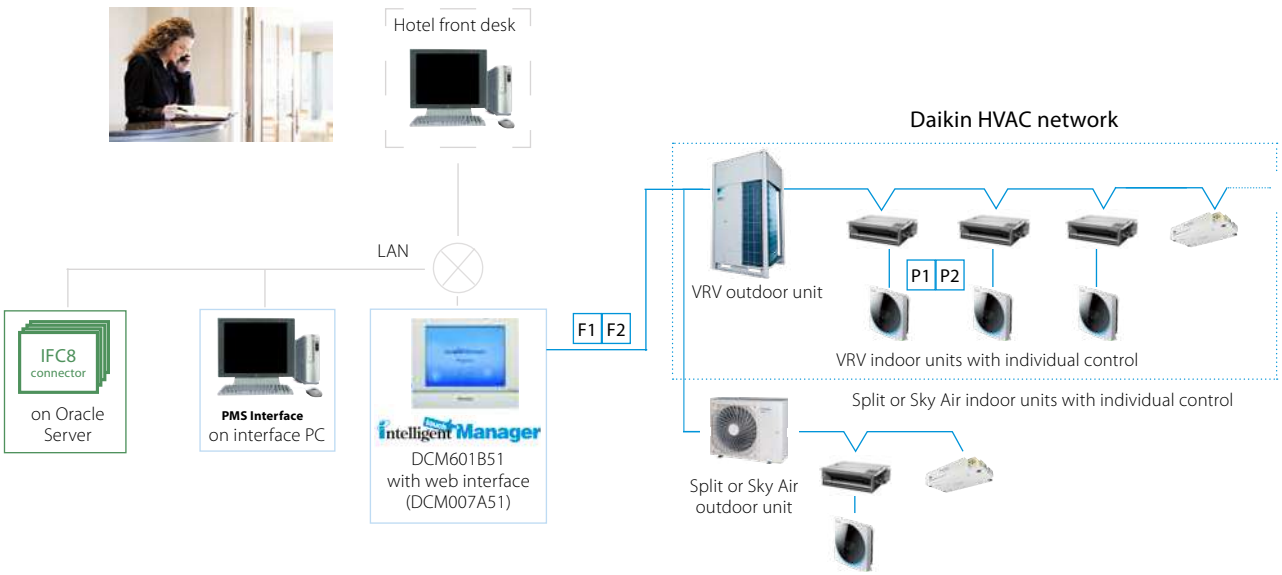
- On check-in the HVAC for the room is automatically switched on
- On check-out the HVAC for the room is automatically switched off.
- Increased hotel customer experience by pre-heating / cooling of booked rooms



Features

- User-friendly interface for easy front desk support in hotels, conference centers, …
- Compatible with Oracle Opera PMS (formerly known as Micros Fidelio)
- Automated push of indoor unit settings based on the Opera PMS Check-In and Check-Out commands
- Energy saving thanks to the possibility to limit temperature setpoint
- Up to 5 customized operation profiles based on weather conditions
- Available in 23 languages
- Up to 2,500 units / rooms can be managed
- The Daikin PMS is using the FIAS protocol, designed by Oracle, to interface with the Property Management System.

Simplified configuration of Daikin PMS interface

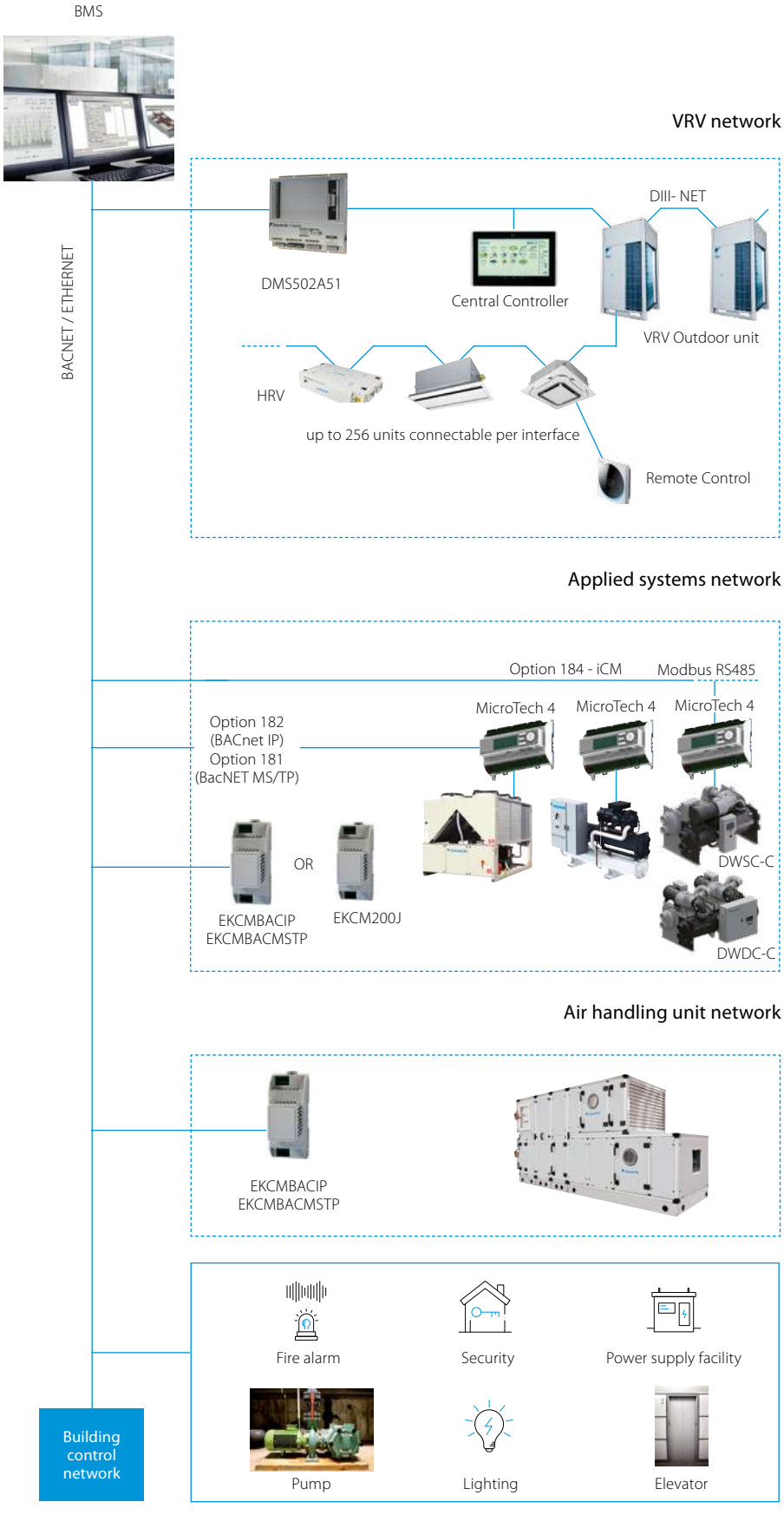


DMS502A51 / EKACBACMSTP / EKCMBACIP / EKCMBACMSTP

BACnet Interface

Integrated control system for seamless connection between VRV, applied systems, air handling units and BMS systems

- Interface for BMS system
- Communication via BACnet protocol (connection via Ethernet)
- Unlimited site size
- Easy and fast installation
- PPD data is available on BMS system (only for VRV)

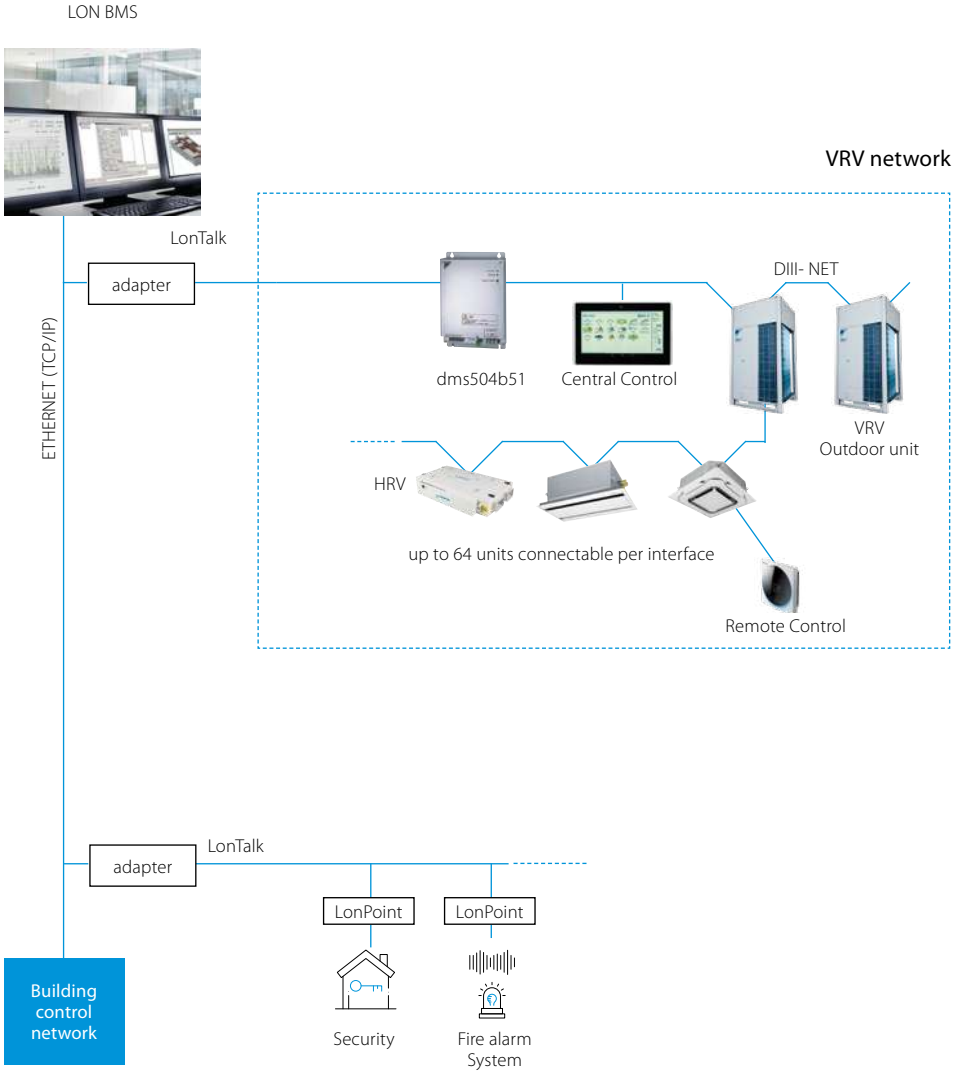


DMS504B51

LonWorks Interface

Open network integration of VRV monitoring and control functions into LonWorks networks

- Interface for Lon connection to LonWorks networks
- Communication via Lon protocol (twisted pair wire)
- Unlimited sitesize
- Quick and easy installation



Welcome to Daikin on Site (DoS),

the future of HVAC management and a revolution in digital services. Our unique platform integrates state-of-the-art technology to deliver the best digital solutions. With DoS, you will experience remote monitoring and control for chiller plants and air handling units via our cloud-based system. Our focus is on maximizing uptime, enhancing efficiency, and extending equipment life. Real-time data access and expert support allow us to spot cost-saving opportunities and prevent unexpected issues, ensuring a smooth user experience. Embrace intelligent HVAC management with Daikin on Site.

Benefits and Value

Remote Monitoring
Keep an eye on your chiller plants and air handling units from anywhere with internet access, ensuring peace of mind and quick response to any issues, thus minimizing downtime and maximizing productivity.

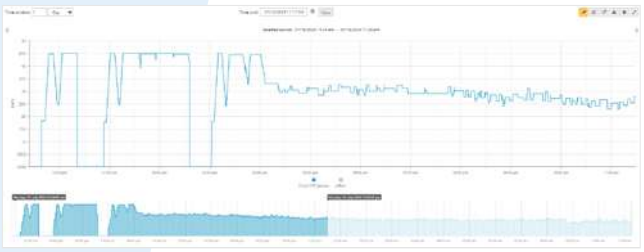
Real-Time Data Access
Gain instant access to real-time performance data, allowing you to make informed decisions swiftly, optimize system efficiency, and identify cost-saving opportunities in real-time.

Remote Control
Adjust settings and parameters remotely, enabling you to fine-tune your HVAC systems without the need for on-site intervention, saving time and resources while ensuring optimal performance.

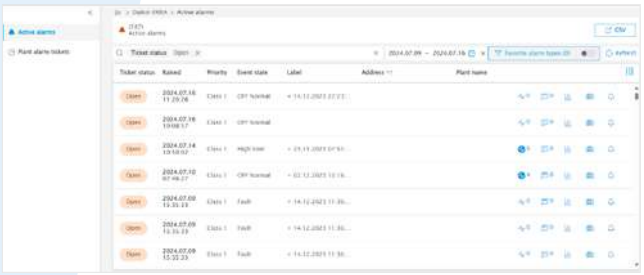
Data Analytics
Utilize advanced data analytics to analyze historical performance trends, identify patterns, and predict potential issues before they occur, enabling proactive maintenance and minimizing the risk of unexpected downtime.

Alarm Notifications
Receive instant alerts for any abnormalities or issues detected within your HVAC systems, allowing you to take immediate action and prevent costly disruptions, ensuring continuous operation and customer satisfaction.

Customizable Dashboard
Tailor your dashboard to display the metrics and information most relevant to your operations, providing you with a personalized and intuitive interface for efficient monitoring and control of your HVAC systems.



Datapoint trend analysis



Advanced Alarm Dashboard

With Daikin on Site, you're not just monitoring your systems — you're optimizing, predicting, and staying one step ahead at all times.

Subscription

Now available

	DoS PREMIUM	DoS PARTNER	DoS CONNECT
Number of parameters	Up to 500	Up to 200	Up to 100
Web graphics	INCLUDED	INCLUDED	INCLUDED
Core features	INCLUDED	INCLUDED	INCLUDED
Advanced features	INCLUDED	NOT INCLUDED	NOT INCLUDED
Target Products	Large/Medium Chillers (ICM)	Large/Medium Chillers, 3rd Part Chillers, M&M Kit	Small Chillers and AHU

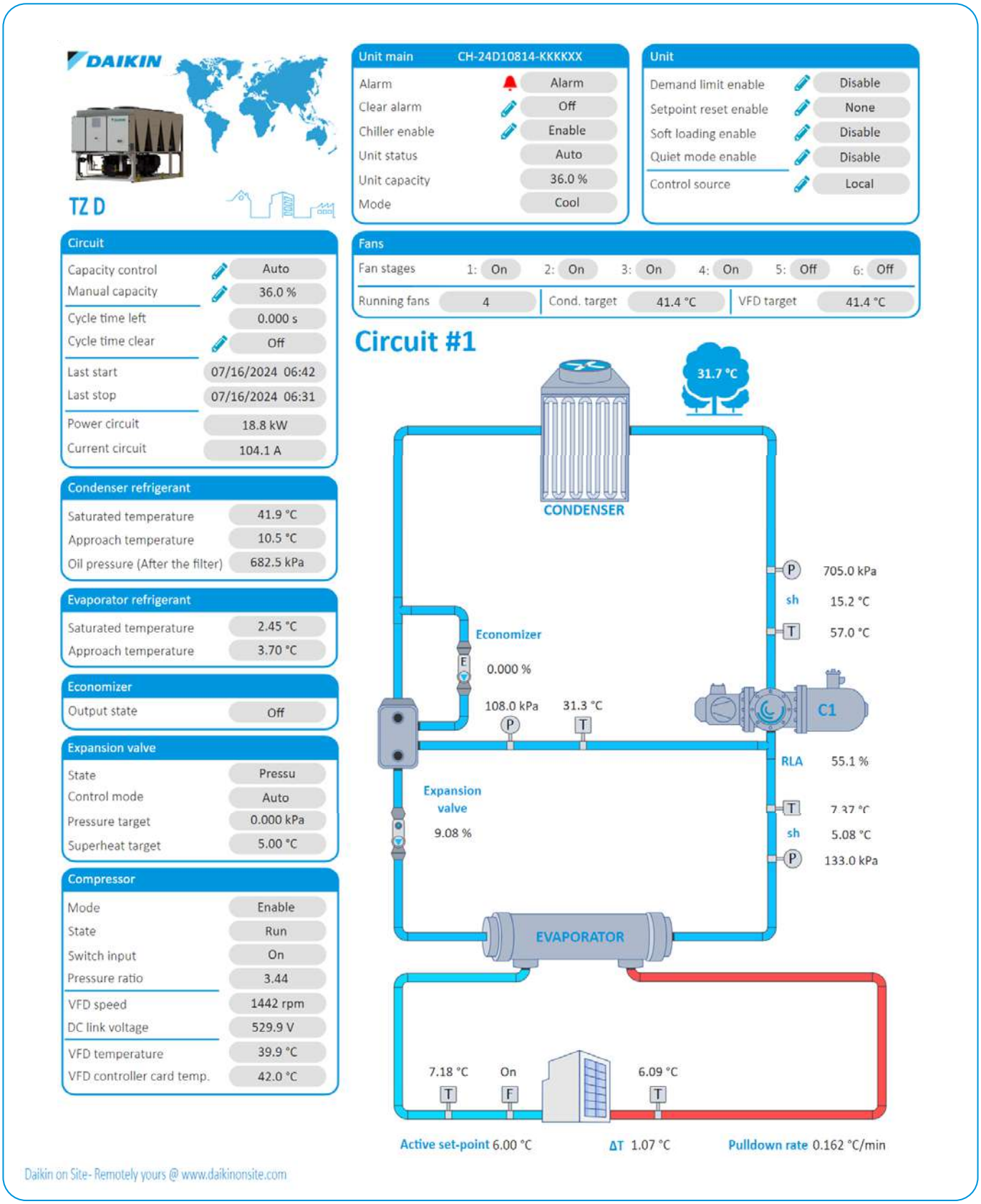
Main features

Now available

	Description	DoS PREMIUM	DoS PARTNER	DoS CONNECT
Datapoints	The maximum number of available datapoints from the unit for monitoring	up to 500	up to 200	up to 100
Data Storage	The duration of storage for historical datapoint values	10-years	1-year	1-year
Reporting	Reports for comprehensive data analysis and visualization	•	•	•
Core Features				
Map & KPI	Map overview with quick KPI indicators for a snapshot of performance metrics	•	•	•
Remote Alarm Notification	Email notifications when alarms occur, keeping users promptly informed of any issues	•	•	•
Alarm Dashboard	Overview of alarm troubleshooting and ticket management	•	•	•
Datapoint List	Provides datapoint details for each chiller and Air Handling Units (AHUs) in the plant	•	•	•
Web Graphics	Interactive visualization of data. Web graphic section in read/write mode	•	•	•
Dashboard	Graphical overview of the unit operations	•	•	•
Trend Viewer	Visually track selected KPI trends	•	•	•
Scheduler	Enables schedule start and stop times for the unit operations	•	•	•
Web Access	Virtual duplication of physical unit display, authorized user can make changes to control setting of unit	•	•	•
Advanced features				
Leak Detection	Designed to identify and locate refrigerant leaks or insufficient level of refrigerant	•		
Predictive maintenance	Advance algorithm to predict failure by processing historical data	•		

If you need more information about Daikin on Site, make sure to visit the link* and reach out to your local Daikin office.

** Only accessible if you have a Daikin ID*



Visualisation of web graphic


DAIKIN

IEQ Sensor

Our New Indoor Environmental Quality Sensor



Daikin's newest device measures and analyzes your indoor environment to improve your well-being

Features

The Daikin IEQ Sensor measures your well-being by tracking indoor air quality values, environmental comfort, and electromagnetic pollution. It is available with 12 sensors and 15 parameter measures, and connects through your Wi-Fi network or via NB-IoT technology.

☑ Complete Standalone Installation

The Daikin IEQ Sensor does not have to be paired with another product, for an extremely easy and completely standalone installation that takes about a minute. The device can be powered up with microUSB power supply (included). The material code is AIRSENSEPROPLUS.

☑ Caelum Monitoring Platform

The device connects to Caelum, Daikin's monitoring platform, at www.daikiniaq.com. This enables you to easily monitor Indoor Air Quality levels and create regular reports based on the data detected by the sensor. You can even use the platform to show your indoor air quality levels to your visitors.

☑ Mobile App

The configuration app is available as Daikin AirSense on both the App Store and Play Store. Once installed on your mobile device and logged in, scan the QR code on the IEQ sensor and the app will guide you through the entire configuration process. Once your sensor is configured, you will have access to the entire set of functions from your mobile.

☑ Connectivity

The IEQ sensor ensures perfect integration with Daikin on Site and Daikin Cloud Service, Daikin's remote monitoring and smart maintenance platform. It gives you perfect control over the entire heating, ventilation and air conditioning system installed in your building. You can use interlock function between IAQ sensor and AHUs.

☑ Available ReFilter tools

Product Hierarchy
Material – Product hierarchy: Accessory Material name: AIRSENSEPROPLUS Business Pillar: SERVICES

☑ Green Building Certification

Installing the Daikin IEQ sensor can help you achieve better sustainability ratings and green building projects certified with LEED and WELL certification thanks to Indoor Environmental Quality credits.

☑ Video wall

The video wall is a great tool to have a general overview of the measurements conducted by the device. This screen can be shared with the occupants of the buildings to show in each moment the Indoor Air Quality status.

☑ Communication capability

NB-IoT: This technology can reach devices in areas where reception is poor or difficult to reach. Complete standalone installation. This is a perfect solution for service purposes where access to local Wi-Fi is not allowed or not available.

Wi-Fi: Easy and complete standalone installation.

Daikin IEQ Sensor kit

The IEQ sensor kit comes in a carton box containing the following items:

Power Supply plug
USB - Micro USB Cables
Wall fixing kit
Quick installation guides



NB-IoT or WiFi?

Communication is either Wifi or NB-IoT network (mobile network). The NB-IoT services is available in the following 18 countries: Austria, Belgium, Czech Republic, Denmark, Estonia, Germany, Greece, Hungary, Ireland, Italy, the Netherlands, Norway, Portugal, Romania, Spain, Switzerland, United Kingdom. NB-IoT services carry a fee (invoiced after the first year of usage).



EKPCCAB4

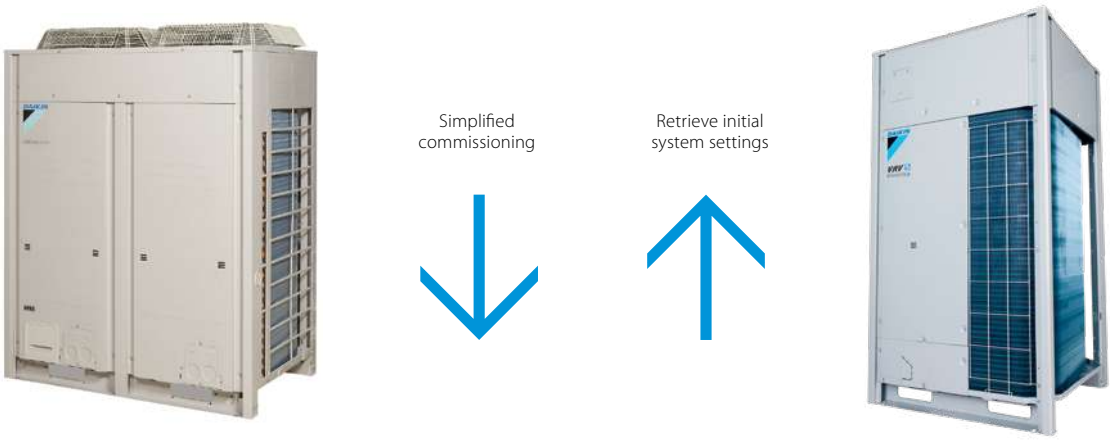
Daikin Configurator Tool + Software

Simplified commissioning: graphical interface to configure, commission and upload system settings

Simplified commissioning

The Daikin configurator for VRV is an advanced software solution that allows for easy system configuration and commissioning:

- Less time is required on the roof configuring the outdoor unit
- Multiple systems at different sites can be managed in exactly the same way, thus offering simplified commissioning for key accounts
- Initial settings on the outdoor unit can be easily retrieved





K.RSS

Wireless room temperature sensor for Sky Air and VRV

Flexible and easy installation

- Accurate temperature measurement thanks to flexible placement of the sensor
- No need for wiring
- No need to drill holes
- Ideal for refurbishment

Connection diagram Daikin indoor unit PCB (FXSQ example)



RF receiver

RF sensor (transmitter)

Specifications

			Wireless room temperature sensor kit (K.RSS)	
			Wireless room temperature receiver	Wireless room temperature sensor
Dimensions		mm	50x50	ø 75
Weight		g	40	60
Power supply			16VDC, max. 20 mA	N/A
Battery life			N/A	+/- 3 years
Battery type			N/A	3 Volt Lithium battery
Maximum range		m	10	
Operation range		°C	0~50	
Communication	Type		RF	
	Frequency	MHz	868.3	

- Room temperature is sent to the indoor unit every 90 seconds or if the temperature difference is 0.2°C or larger.

KRCS*

Wired room temperature sensor for Sky Air and VRV



- Accurate temperature measurement, thanks to flexible placement of the sensor
- Specific model code for each indoor unit can be found in the option tables

Specifications

Dimensions (HxW)	mm	60x50
Weight	g	300
Length of branch wiring	m	12

Adapter PCBs

Simple solutions for unique requirements
Concept and benefits

- Low cost option to satisfy simple control requirements
- Deployed on single or multiple units

			Connectable to:		
			Split	Sky Air	VRV
	**(E)KRP1B*** adapter for wiring	▪ Facilitates integration of auxiliary heating apparatus, humidifiers, fans, damper ▪ Powered by and installed at the indoor unit		•	•
	**KRP2A*/KRP4A*** Wiring adapter for electrical appendices	▪ Remotely start and stop up to 16 indoor units (1 group) (KRP4A* via F1 F2) ▪ Remotely start and stop up to 128 indoor units (64 groups) (KRP2A* via P1 P2) ▪ Alarm indication/ fire shut down ▪ Remote temperature setpoint adjustment ▪ Cannot be used in combination with a central controller		•	•
	**SB.KRP58M2**	▪ Low noise and demand control option for RZAG-N* and RZASG-M* series. ▪ Obligatory mounted plate EKMKSA2 needs to be ordered separately		•	
	**KRP58M51**	▪ Low noise and demand control option for RZA-D series. ▪ Includes obligatory mounted plate EKMKSA3 ▪ Obligatory mounting plate EKMKSA3 needs to be ordered separately		•	
	**DTA104A*** Outdoor Unit External Control Adapter	▪ Individual or simultaneous control of VRV system operating mode ▪ Demand control of individual or multiple systems ▪ Low noise option for individual or multiple systems			•
	**DCS302A52-9** Unification adapter for computerized control	▪ Enables unified display (operation/malfunction) and unified control (ON/OFF) from BMS system ▪ Must be used together with Intelligent Touch Controller or intelligent Touch Manager ▪ Cannot be combined with KRP2/4* ▪ Can be used for all VRV indoor models			•
	**KRP928*** Interface adapter for DIII-net	▪ Allows integration of split units to Daikin central controls	•		
	**KRP980*** Adapter for split units without an S21 port	▪ Connect a wired remote control ▪ Connect to Daikin central controls ▪ Allow external contact	•		
	**KRP413*** Wiring adapter normal open contact / normal open pulse contact	▪ Switch off auto restart after power failure ▪ Indication of operation mode / error ▪ Remotely start / stop ▪ Remotely change operation mode ▪ Remotely change fan speed	•		

Some adapters require an installation box, refer to the option lists for more information

Accessories

EKRORO		▪ External ON/OFF or forced off ▪ Example: door or window contact
EKRORO 3		▪ External ON/OFF or forced off ▪ F1/F2 contact ▪ Example: door or window contact
KRC19-26A		▪ Mechanical cool/heat selector ▪ Allows switching over an entire system between cooling/heating/fan only ▪ Connects to the A/B/C terminals of the unit
BRP2A81		▪ Cool/heat selector PCB ▪ Required to connect KRC19-26A to a VRV IV outdoor unit

Individual and centralised controls

	BRC1D*	BRC1E*	BRC1H*	DCS301B51	DST301B51	DCS302C51	DCS601C51
Madoka Assistant app for advanced settings			•				
Electrical box KJB111A	•	•	•				
Electrical box KJB212A(A) (1)	•	•		•	•		
Electrical box KJB311A(A)						•	
Electrical box KJB411AA							•

(1) recommended as wider (more stable mounting)

Intelligent Tablet Controller - DCC601A51

		Intelligent Tablet Controller
		Options for local control
Wired screen for local control	AL-CCD07-VESA-1	•
Commissioning tool		•
Software update tool		•

Standard protocol interfaces - DMS502A51

		BACnet Interface
DIII-net expansion board (2 ports), connects up to 128 additional indoor units	DAM411B51	•
Digital pulse inputs (12) for PPD functionality	DAM412B51	•

Intelligent Chiller Manager

		Intelligent Chiller Manager
Differential Pressure Sensor 4-20 mA 0-160 kPa	EKQDP2M016	•
Differential Pressure Sensor 4-20 mA 0-250 kPa	EKQDP2M020	•
Differential Pressure Sensor 4-20 mA 0-400 kPa	EKQDP2M040	•
Differential Pressure Sensor 4-20 mA 0-600 kPa	EKQDP2M060	•
ModBus RTU communication module	EKCM200J	•
BACnet IP communication module	EKCMBACIP	•

Intelligent Touch Manager - DCM601B51

		intelligent Manager
DIII Plus Adaptor - Allows connection of additional 64 indoor units/groups. Only one adaptor can be connected (for more units, use DIII Plus Adaptor Slots)	DGE601A52	•
DIII Plus Adaptor - Allows connection of additional 64 indoor units/groups. Up to 6 Adaptor Slots can be added to a DIII Plus Adaptor	DGE601A53	
iTM plus adapter – Allows connection of an additional 64 indoor units/groups. Up to 7 adapters can be connected	DCM601A52	•
iTM PPD software – Allows distribution of used kWh by indoor units connected to the iTM	DCM002A51	•
iTM HTTP interface - Allows communication to any third party controller via http interface	DCM007A51	•
iTM Energy navigator – Energy management option	DCM008A51	•
iTM BACnet Client option – Enables integration of third party devices to the iTM via the BACnet/IP protocol. (This is not a gateway and cannot replace DMS502A51)	DCM009A51	•
Property Management System (PMS) interface option - Enables to connect to third party PMS systems	DCM010A51	• Oracle Opera PMS

WAGO interface options for intelligent Touch Manager

Required or optional WAGO base modules

Module type	Model code	Specifications	
24 V DC power supply	787-712	100 to 240 V AC —> 24 V DC, 2.5 A	Required
Communications unit (Bus coupler)	WGDCMCPLR2	RS-485, Max:115.2kbps, not programmable	Required
Connector (1)	750-960		Required
Terminator module	750-600		Required
Power supply module	750-613	IN: 24 V DC, OUT: 5 V DC	Optional

Supported WAGO I/0 modules

I/0 module type	Model code	Specifications	N° of contacts
Di	750-400	No-voltage contact input Contact rating: 24 V DC / 4.5 mA"	2
	750-432		4
	750-430	No-voltage contact input Contact rating: 24 V DC / 2.8 mA	8
Do	750-513/000-001	No-voltage contact output Contact rating: 230 V AC / 30 V DC, 2 A	2
	750-504	No-voltage contact output Contact rating: 24 V DC / 0.5 A	4
Ai	750-454	Rated at 4 to 20 mA: 12-bit resolution	2
	750-455		4
	750-479	Rated at –10 to 10 V: 13-bit resolution	2
	750-459	Rated at 0 to 10 V: 12-bit resolution	4
Ao	750-554	Rated at 4 to 20 mA: 12-bit resolution	2
	750-555		4
	750-560	Rated at –10 to 10 V: 10-bit resolution	2
	750-559	Rated at 0 to 10 V: 12-bit resolution	4
Thermistor	750-461/020-000	NTC20K thermistor	2
	750-461	Pt 100/RTD	2
	750-460		4
	750-461/000-003	Pt 1000/RTD	2
	750-460/000-003		4
	50-461/000-004	Ni 100/RTD	2
	750-461/000-005	Ni1000 TK6180/RTD	2
	750-460/000-005		4
Pi	750-638	Minimum pulse width: 1 ms	2

(1) This connector must be attached to a communications unit that is connected to the RS485 port (2-pin) of the iTM unit.

(2) To connect intelligent Touch Manager to the Daikin Cloud Service, the IoT gateway (EU.SB.5000072) and AC/DC converter (999175A) is needed.

Power supply

T1 = 3~, 220V, 50Hz
V1 = 1~, 220-240V, 50Hz
VE = 1~, 220-240V/220V, 50Hz/60Hz*
V3 = 1~, 230V, 50Hz
VM = 1~, 220~240V/220~230V, 50Hz/60Hz
W1 = 3N~, 400V, 50Hz
Y1 = 3~, 400V, 50Hz

* For VE power supply only 1~, 220-240V, 50Hz data is displayed in this catalogue.

Conversion table refrigerant piping

inch	mm
1/4″	6.4 mm
3/8″	9.5 mm
1/2″	12.7 mm
5/8″	15.9 mm
3/4″	19.1 mm
7/8″	22.2 mm
1 1/8″	28.5 mm
1 3/8″	34.9 mm
1 5/8″	41.3 mm
1 3/4″	44.5 mm
2″	50.8 mm
2 1/8″	54 mm

F-gas regulation

Any refrigeration system that contains fluorinated greenhouse gases is in scope of the F-gas regulations.
For fully/partially pre-charged equipment: contains fluorinated greenhouse gases. Actual refrigerant charge depends on the final unit construction, details can be found on the unit labels and in the notes underneath the specification tables in this catalogue.
For non pre-charged equipment (including, but not limited to racks): its functioning relies on fluorinated greenhouse gases.
The F-gas regulations do not apply to systems that contain only natural refrigerants such as propane or carbon dioxide.

Measuring conditions

Air conditioning

1) Nominal cooling capacities are based on:	
Indoor temperature	27°CDB/19°CWB
Outdoor temperature	35°CDB
Refrigerant piping length	7.5m - 8/5m VRV
Level difference	0m
2) Nominal heating capacities are based on:	
Indoor temperature	20°CDB
Outdoor temperature	7°CDB/6°CWB
Refrigerant piping length	7.5m - 8/5m VRV
Level difference	0m

Refrigeration

ZEAS	Chilling		Evaporating temp. -10°C; outdoor temp. 32°C; Suction SH10°C
	Freezing		Evaporating temp. -35°C; outdoor temp. 32°C; Suction SH10°C
Conveni-Pack	Mix Air conditioning and refrigeration operating mode		Indoor temp. 27°CDB/19°CWB; outdoor temp. 32°CDB; piping length:7.5m; level difference: 0m; refrigeration side: Evaporating temp. -10°C; outdoor temp. 32°CDB; Suction SH: 10°C
	Mix heating and refrigeration operating mode (Heating recovery 100% mode)		Indoor temp. 20°C; outdoor temp. 7°CDB,6°CWB; advertised refrigerant load (Evaporating temp. -10°C; Suction SH: 10°C); piping length:7.5m; level difference: 0m
Booster unit			Evaporating temp. -35°C; outdoor temp. 32°C; suction SH 10K; saturated temp. to discharge pressure of booster unit -10°C
CCU/SCU	Medium temperature application		Medium temperature application: Outside ambient temp. 32°C; Evaporating temp. = -10°C and 10K superheat;
	Low temperature application		Low temperature application: Outside ambient temp. 32°C; Evaporating temp. = -35°C and 20°C suction gas temperature
Zanotti	Uni-Block, Bi-Block, Wineblock	High temperature	When normally running: +10°C / +30°C
		Medium temperature	When normally running: 0°C / 30°C
		Low temperature	When normally running: -20°C / +30°C
	CU (one, twin, and more compressor(s))	Medium temperature	Outside ambient temp. 32°C; Evaporating temp. = -10°C and 20°C suction gas temperature
		Low temperature	Outside ambient temp. 32°C; Evaporating temp. = -35°C and 20°C suction gas temperature

Applied systems

Air cooled	Cooling only		Evaporator: 12°C/7°C	Ambient: 35°CDB
	Heat pump		Evaporator: 12°C/7°C	Ambient: 35°C
			Condenser: 40°C/45°C	Ambient: 7°CDB/6°CWB
Water cooled	Cooling only		Evaporator: 12°C/7°C	
			Condenser: 30°C/35°C	
	Heating only		Evaporator: 12°C/7°C	
			Condenser: 40°C/45°C	
Condenserless chiller			Evaporator: 12°C/7°C	
			Condensing temperature: 45°C / liquid temperature: 40°C	
Fan coil units	Cooling		Indoor temperature 27°CDB, 19°CWB; entering water temperature 7°C, water temperature rise 5K	
	Heating	2-pipe	Indoor temperature 20°CDB, 15°CWB; entering water temperature 45°C, water temperature drop 5K	
		4-pipe	Indoor temperature 20°CDB, 15°CWB; entering water temperature 65°C, water temperature drop 10K	
Air Handling Units			Temperature and humidity conditions: Extract air 22°C / 50%; Fresh air -10°C / 90%	

The sound pressure level is measured via a microphone at a certain distance from the unit. It is a relative value, depending on the distance and acoustic environment (for measuring conditions: please refer to the technical databooks). The sound power level is an absolute value indicating the "power" which a sound source generates. For more detailed information please consult our technical databooks.

Benefits

We care icons

Auto-cleaning filter
The filter automatically cleans itself. Simplicity of upkeep means optimum energy efficiency and maximum comfort without the need for expensive or time-consuming maintenance.

Inverter technology
Inverter compressors continuously adjust compressor speed to actual demand. Fewer power-consuming starts and stops result in decreased energy consumption (up to 30%) and more stable temperatures.

2 area motion detection sensor
Air flow is sent to a zone other than where the person is located at that moment. Detection is done in 2 directions: left and right. If no people are detected, the unit will automatically switch over to the energy-efficient setting.

3 area motion detection sensor
Air flow is sent to a zone other than where the person is located at that moment. Detection is done in 3 directions: left, front and right. If no people are detected, the unit will automatically switch over to the energy-efficient setting and eventually switch off.

Energy saving during operation standby
Current consumption is reduced by about 80 % when operating on standby.

Night set mode
Saves energy, by preventing overcooling or overheating during night time.

Econo mode
This function decreases the power consumption so that other applicances that need large power consumption can be used. This function is also energy saving.

Movement sensor
Saves power consumption in unoccupied rooms: when the room is empty, the unit switches to economy mode after 20 minutes and restarts when a person enters the room.

Home leave operation
Maintains the indoor temperature at your specified comfort level during absence, thus saving energy.

Fan only
The unit can be used as fan, blowing air without heating or cooling.

Free cooling
By exploiting the low external air temperatures to cool the water, free cooling reduces the load on the compressors and decreases considerably the annual operating costs during the cold season.

Presence and floor sensor
The presence sensor directs the air away from any person detected in the room, when the air flow control is on. The floor sensor detects the average floor temperature and ensures an even temperature distribution between ceiling and floor.

Solar panel
Take advantage of solar power. Easily connect your hot water storage to solar collectors on your roof.

Comfort

Comfort mode
The unit automatically changes the angle of the air discharge louvre depending on the mode. In cooling operation the air will be directed rather upwards to avoid cold draught, while in heating operation the air will be directed rather downwards to avoid cold feet.

Powerful mode
If the temperature in the room is too high/low, it can be cooled down/heated quickly by selecting the 'powerful mode'. After the powerful mode is turned off, the unit returns to the preset mode.

Practically inaudible
Practically inaudible: the unit runs so quietly, you will almost forget it is there.

Whisper quiet
Daikin indoor units are whisper quiet. Also the outdoor units are guaranteed not to disturb the quiet of the neighbourhood. (with sound levels as low as 19dB(A)

Outdoor unit silent operation
To ensure a quiet environment for the neighbourhood the user can lower the operation sound of the outdoor unit by 3 dB(A) via remote control.

Comfortable sleeping mode
Increased comfort function that follows a specific temperature fluctuation rhythm.

Draught prevention
When starting to warm up or when the thermostat is off, the air discharge direction is set horizontally and the fan to low speed, to prevent draught. After warming up, air discharge and fan speed are set as desired.

Auto cooling-heating changeover
Automatically selects cooling or heating mode to achieve the set temperature.

Indoor unit silent operation
To ensure a quiet environment for studying or sleeping the user can lower the operation sound of the indoor unit by 3 dB(A) via remote control.

Night quiet mode (multi outdoor units in cooling mode only)
Lowers the operation sound of the outdoor unit automatically at night. Installer has to make special setting on outdoor unit or wired remote controller, depending on model.

Fresh hot water
The structure of thermal store ensures optimal water hygiene and eliminates the risk of bacteria and legionella. Rest assured that your hot water is fresh and safe.

Heat boost
Quickly heats up your home when starting up your air conditioner. Set temperature is reached 20% faster than a regular air conditioner (pair only).

Heat plus
The heat plus function provides cosy heating by stimulating radiant heat for 30 minutes. Afterwards, the previous settings are again activated.

Floor warming
Optimises convection by distributing hot air from the bottom of the unit.

Weather compensation function
The weather compensation function automatically compensates the heat loss of your home in heating mode when outdoor temperature suddenly drops.

Air flow

Ceiling soiling prevention
A special function prevents air blowing out too long in horizontal position, to prevent ceiling stains.

Vertical auto swing
Possibility to select automatic vertical moving of the air discharge louvre, for uniform air flow and temperature distribution.

Auto fan speed
Automatically selects the necessary fan speed to reach or maintain the set temperature.

Individual flap control
Individual flap control via the wired remote controller enables you to easily fix the position of each flap individually, to suit any new room configuration. Optional closure kits are available as well.

Coanda effect - cooling
The Coanda effect optimises the airflow in cooling mode. By using specially designed flaps, a more focused airflow allows a better temperature distribution throughout the whole room.

Coanda effect - heating
The Coanda effect optimises the airflow in heating mode. By using specially designed flaps, a more focused airflow allows a better temperature distribution throughout the whole room.

3-D Air flow
This function combines Vertical and Horizontal auto-swing to circulate a stream of cool/warm air right to the corners of even large spaces.

Horizontal auto swing
Possibility to select automatic horizontal moving of the air discharge louvre, for uniform air flow and temperature distribution.

Fan speed steps
Allows to select up to the given number of fan speed.

Fireplace logic
When installed close to a heating device (e.g. fireplace or oven) and the set temperature is reached, the fan keeps on running to have an even temperature throughout the whole house.

Intelligent thermal sensor
The intelligent thermal sensor determines the current room temperature and distributes air evenly throughout the room before switching to an airflow pattern that directs warm or cool air to areas that need it.

Benefits

Humidity control



Ururu - humidification
Moisture is absorbed from the outdoor air and evenly distributed throughout the indoor areas.



Dry programme
Allows humidity levels to be reduced without variations in room temperature.



Sarara - dehumidification
Reduces indoor humidity, without affecting the room temperature, by mixing cool, dry air with warm air.

Air treatment



Flash Streamer*
Using electrons to trigger chemical reactions with air borne particles, the Flash Streamer breaks down allergens such as pollen and fungal allergens and removes bothersome odours providing a better, cleaner air.



Silver allergen removal and air purifying filter
Captures allergens such as pollen to ensure a steady supply of clean air.



Titanium apatite deodorizing filter
Decomposes bothersome odours of for example tobacco and pets.



Air filter
Removes airborne dust particles to ensure a steady supply of clean air.

Remote control & timer



Weekly timer
Can be set to start heating or cooling anytime on a daily or weekly basis.



Timer
Allows to preset the air conditioner to start/stop at a specified time.



Wired remote control
Wired remote control to start, stop and regulate the air conditioner from a distance.



Multi zoning
Allows up to 6 individual climate zones with one indoor unit.



24 Hour timer
Timer can be set to start cooling/heating anytime during a 24-hour period.



Infrared remote control
Infrared remote control with LCD to start, stop and regulate your indoor unit from a distance.



Centralised control
Centralised control to start, stop and regulate several indoor units from one central point.



onecta **app**
Control your indoor climate from any location via smartphone or tablet.



Voice control
Control your unit with your voice.

Other functions



Auto-restart
The unit restarts automatically at the original settings after power failure.



Twin/triple/double twin application
2, 3 or 4 indoor units can be connected to only a single outdoor unit even if they have different capacities. All indoor units operate within the same heating or cooling mode from one remote control.



VRV for residential application
Up to 9 indoor units (even different capacities and up to 71 class) can be connected to a single outdoor unit. All indoor units can individually be operated within the same mode.



Self-diagnosis
Simplifies maintenance by indicating system faults or operating anomalies.



Multi tenant
The indoor unit's main power supply can be turned off when leaving the hotel or office building.



Scroll compressor
Scroll compressors consist of two scrolls, one is fixed while the other orbits eccentrically without rotating. Designed for small and medium capacities, they provide constant reliability and high efficiency throughout its service life.



Centrifugal compressor
Centrifugal compressors use an impeller and volute section to convert the velocity energy into pressure energy. Centrifugal compressors are designed with either optional variable speed drives (VFD) for superior part-load performance for single or dual compressor units, or with magnetic bearings and totally oil-free operation.



Infrastructure cooling
Remove in a reliable, efficient and flexible way the heat constantly generated by the IT and server equipment to ensure maximum uptime while offering the best return on investment.



Multi model application
Up to 3 indoor units can be connected to a single outdoor unit, even if they have different capacities. All indoor units can individually be operated within the same heating or cooling mode.



Multi model application
Up to 5 indoor units (even different capacities) can be connected to a single outdoor unit. All indoor units can individually be operated within the same mode.



Drain pump kit
Facilitates condensation draining from the indoor unit.



Swing compressor
Swing type compressors have a unified vane and roller with fewer moving parts producing low vibration and friction, achieve higher reliability and efficiency compared to conventionally rotary compressors.



Screw compressor
Single screw compressors consist of a main single screw and two gate rotors. Optimal performance through step less capacity control, they are designed for high capacities and optimal performances.



Reciprocating compressor
The reciprocating type compressor consists of a cylinder, pistons and valves. The compression is accomplished by reciprocating movements of the piston in the cylinder.



Guaranteed operation down to -20°C
Daikin heat pumps are suitable for all climates, even withstanding severe winter conditions with an operation range down to -20°C.



Guaranteed operation down to -25°C
Daikin heat pumps are suitable for all climates, even withstanding severe winter conditions with an operation range down to -25°C.



Guaranteed operation down to -28°C
Daikin units are suitable for all climates, even withstanding severe winter conditions with an operation range down to -28°C.



Guaranteed operation down to -30°C
Daikin units are suitable for all climates, even withstanding severe winter conditions with an operation range down to -30°C

* The Flash Streamer technology is not meant to be used for medical purposes

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