DAIKIN

Παγκόσμιος Ηγέτης στο **Ιδανικό** Κλίμα.

Ψύκτες

ΚΛΙΜΑΜΗΧΑΝΙΚΗ
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CE

EUROVENT CERTIFIED PERFORMANCE

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.

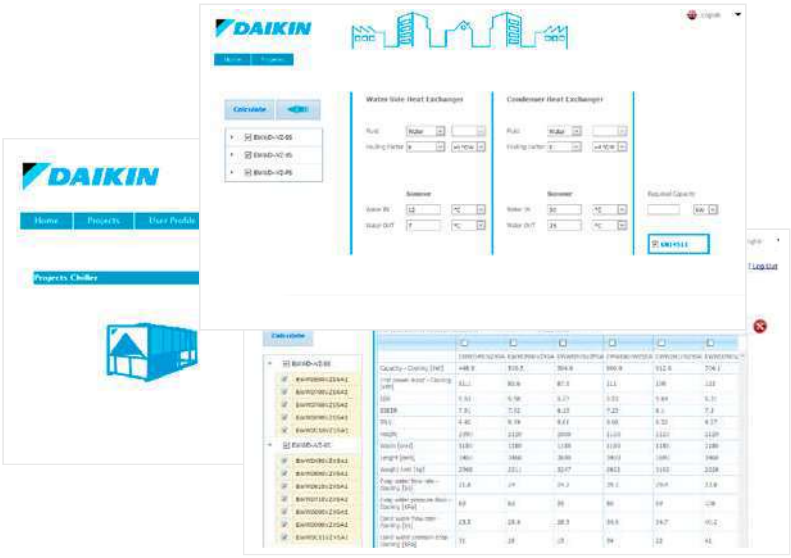
Web-based chiller selection software

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/



401 Chiller and air side equipment
Product portfoliio

416 Modular L
Product profile

445 EWYD-4Z Multipurpose
Product profile

404 EWAD-TZ B
Product profile

418 Chiller series
Product profile

Supporting tools

Business portal

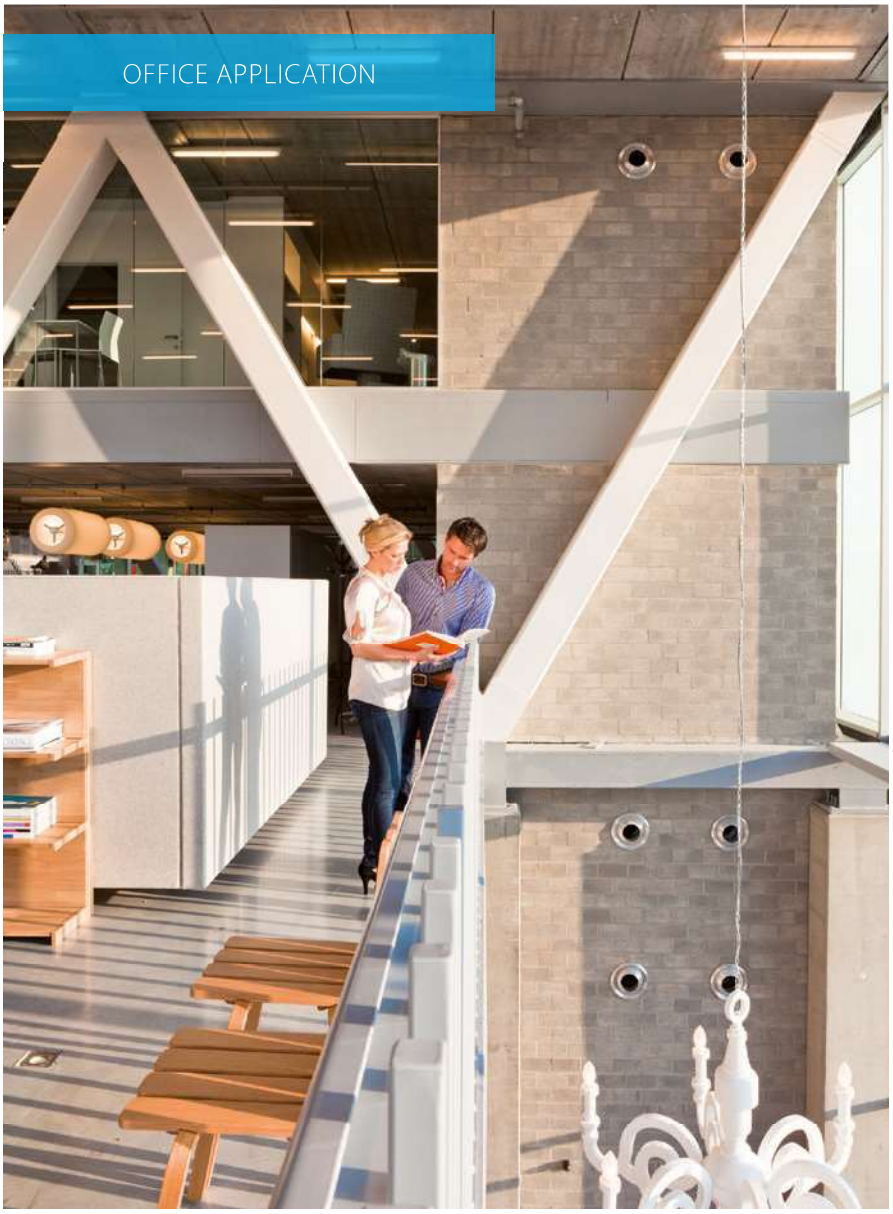
› Experience our extranet that thinks with you at my.daikin.eu
› Find information in seconds via a powerful search
› Customise the options so you see only info relevant for you
› Access via mobile device or desktop

Website

› www.daikin.eu/en_us/product-group/chillers.html
› 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


OFFICE APPLICATION

AIR COOLED CHILLER INSTALLATION

AIR COOLED CHILLER INSTALLATION


INDUSTRIAL APPLICATION


HOTEL
APPLICATION


DATA CENTER
APPLICATION

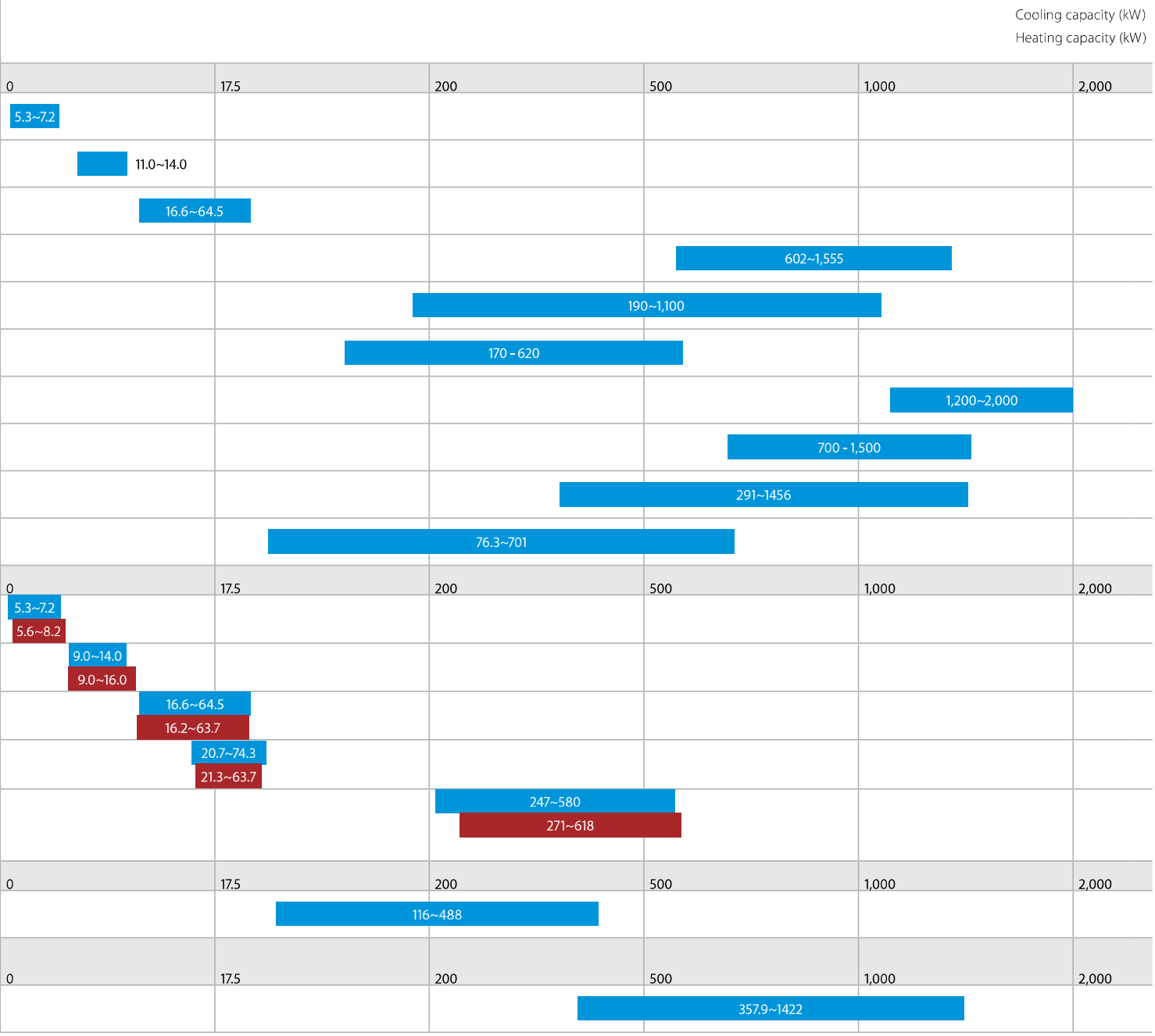

DAIKIN


PROCESS COOLING
APPLICATION

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	Standard	High	Premium	Standard	Low	Reduced
Cooling only																
EWAQ~BVP		R-410A	1	●		●			● BPHE		●			●		
EWAA-DV3P-H/ DW1P-H	NEW 	R-32	1	●			●		● BPHE		●			●		
EWAQ~CWN/P/H		R-410A	1-2	●			●		● BPHE		●			●		
EWAD~CF		R-134a	2		●			●		●		●		●	●	●
EWAD-TZ B		R-134a	1-2	●				●	●	●	●	●	●	●	●	●
EWAH-TZ B		R-1234ze(E)	1-2	●				●	●	●	●	●	●	●	●	●
EWAD-TZ C		R-134a	1-2	●				●	●	●	●	●	●	●	●	●
EWAH-TZ C		R-1234ze(E)	1-2	●				●	●	●	●	●	●	●	●	●
EWAD-T-		R-134a	2					●		●	●	●	●	●	●	●
EWAT-B		R-32	1-2				●		●		●	●	●	●	●	●
Heat pump																
EWYQ~BVP		R-410A	1	●		●			● BPHE		●			●		
EWYA-DV3P-H/ DW1P-H	NEW 	R-32	1	●			●		● BPHE		●			●		
EWYQ~CWN/P/H		R-410A	1-2	●			●		● BPHE		●			●		
SEHVX-BW SERHQ-BW1		R-410A	1	●			●		● BPHE		●			●		
EWYD~BZ		R-134a	2-3	●				●		●	●			●	●	
Condensing unit																
ERAD~E-		R-134a	1					●			●			●	●	
Multipurpose unit																
EWYD-4Z		R-134a	2	●				●		●		●		●	●	●

* (GWP) : R-410A (2087.5), R-134a (1430) - ** BPHE: Brazed plate heat exchanger

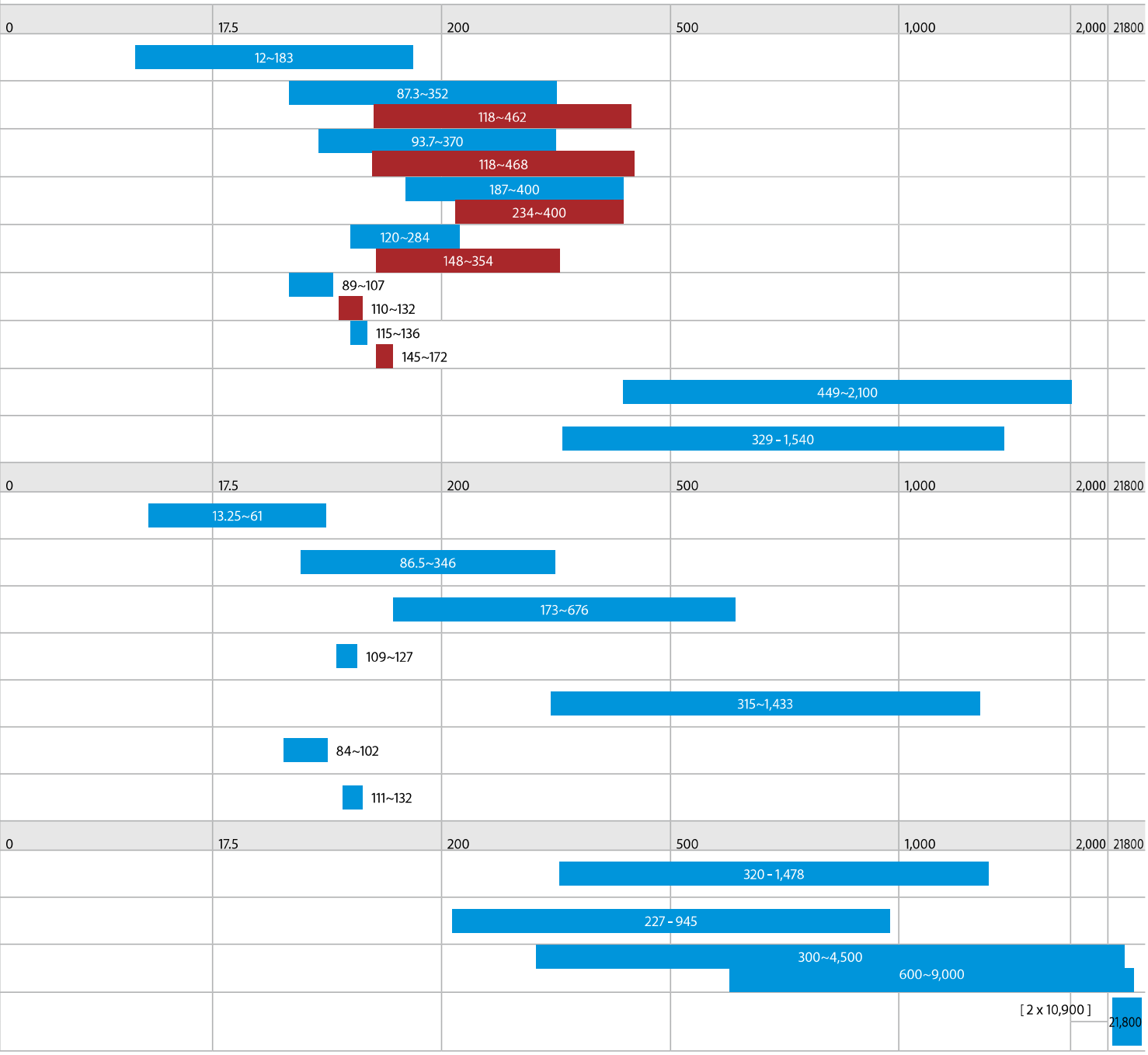

Cooling capacity (kW)
Heating capacity (kW)
0
17.5
200
500
1,000
2,000
5.3~7.2
11.0~14.0
16.6~64.5
602~1,555
190~1,100
170 - 620
1,200~2,000
700 - 1,500
291~1456
76.3~701
0
17.5
200
500
1,000
2,000
5.3~7.2
5.6~8.2
9.0~14.0
9.0~16.0
16.6~64.5
16.2~63.7
20.7~74.3
21.3~63.7
247~580
271~618
0
17.5
200
500
1,000
2,000
116~488
0
17.5
200
500
1,000
2,000
357.9~1422

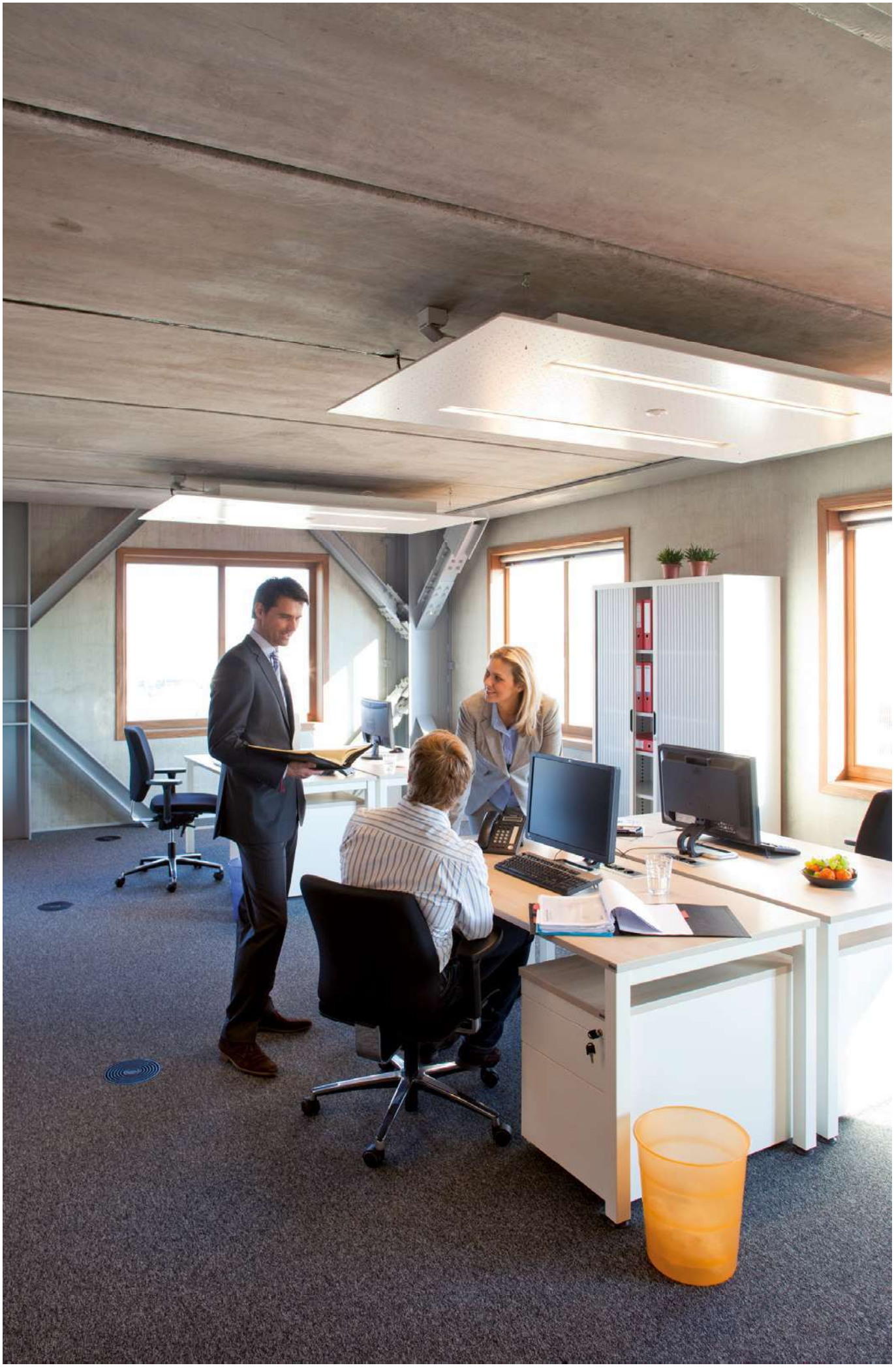
Products overview

		Refrigerant Type *	Refrigerant circuits	Compressor			Water heat exchanger			Efficiency version			Sound version
				Inverter	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-KBW1N		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- NEW		R1234ze	1			●		●			●			●
EWWS-J- NEW		R-513A	1			●		●			●			●
EWWD-VZ		R-134a	1	●		●				● Flooded	●	●	●	●
EWWH-VZ		R-1234ze(E)	1	●		●				● Flooded	●	●	●	●
Condenserless chillers														
EWLQ-KBW1N		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- NEW		R1234ze	1			●		●			●			●
EWLS-J- NEW		R-513A	1			●		●			●			●
Water cooled centrifugal chillers														
EWWD-DZ		R-134a	1				●			●		●		●
EWWH-DZ		R-1234ze(E)	1				●			●		●		●
DWSC/DWDC B-Vintage		R-134a and R513A	1	optional			●		● Flooded			●		●
6,000 RT CENTRIFUGAL		R-134a	2 per chiller				●		● Flooded			●		●

* (GWP) : R-410A (2087.5), R-134a (1430), R-407C (1773.9) - ** BPHE: Brazed plate heat exchanger

Cooling capacity (kW)
Heating capacity (kW)





Air cooled mini inverter chiller

- Top product in terms of energy efficiency and operation range
- All capacities available in 2 versions: standard version and version with OP10 option (no freeze up of water when not in operation thanks to the water piping heater tape)
- Easy‚plug and play' installation
- Amongst the most quiet units in the market (63dBA - sound power)
- Single phase power supply and low starting currents make the unit ideal for residential applications
- Weight reduced with 20% compared with the previous models.
- Built-in Hydraulic kit: no buffer tank required, standard inverter driven pump, main flow sensor and switch included.
- Standard wired remote control enables setting of different set points (cooling, heating, water leaving temperature) or based on outdoor conditions (weather dependent control). It has an alarm history, night time noise reduction function and is language based.

Cooling Only				EWAQ-BVP	004	005	006	008
Space cooling	A Condition 35°C	Pdc		kW	4.00	4.93	5.88	7.95
	ηs,c			%	172	173	174	178
SEER					4.38	4.39	4.42	4.53
Cooling capacity	Nom.			kW	4.00 (1) / 4.01 (2)	4.93 (1) / 5.07 (2)	5.88 (1) / 6.07 (2)	7.95 (1) / 8.23 (2)
Power input	Cooling	Nom.		kW	1.27 (1) / 0.840 (2)	1.61 (1) / 1.12 (2)	1.87 (1) / 1.13 (2)	2.57 (1) / 1.65 (2)
Capacity control	Method				Variable (inverter)			
EER					3.14 (1) / 4.80 (2)	3.06 (1) / 4.51 (2)	3.15 (1) / 5.35 (2)	3.10 (1) / 4.99 (2)
ESEER					4.45	4.49	5.25	5.24
Dimensions	Unit	Height		mm	735		997	
		Width		mm	1,090		1,160	
		Depth		mm	350		380	
Weight	Unit			kg	83		106	
Water heat exchanger	Type				Brazed plate			
	Water volume			l	1		2	
Air heat exchanger	Type				Cross fin coil/Hi-X tubes and chromate coated waffle louvre fins		Cross fin coil/Hi-X tubes and PE coated waffle louvre fins	
Compressor	Type				Hermetically sealed swing compressor			
	Quantity				1			
Fan	Type				Propeller fan			
	Quantity				1			
	Air flow rate	Cooling	Nom.	m^3/min	53		72 (1)	
Sound power level	Cooling	Nom.		dBA	63.0 (1)	64.0 (1)	69.0 (1)	
Sound pressure level	Cooling	Nom.		dBA	48.0	49.0	52.0	53.0
Operation range	Air side	Cooling	Min.~Max.	°CDB	10~43		10~46	
	Water side	Cooling	Min.~Max.	°CDB	5~22			
Refrigerant	Type/GWP				R-410A/2,088		R-410A/2,087.5	
	Control				Electronic expansion valve			
	Circuits	Quantity			1			
Refrigerant charge	Per circuit			kg	2.10		2.70	
	Per circuit			TCO2Eq	4.4		5.6	
Water circuit	Piping connections diameter			inch	1" MBSP			
Unit	Starting current	Max		A	15.7		19.9	
	Running current	Max		A	15.7		19.9	
Power supply	Phase/Frequency/Voltage			Hz/V	1N~/50/230			

(1)Cooling: entering evaporator water temp. 12°C; leaving evaporator water temp. 7°C; ambient air temp. 35°C | (2)Cooling: entering evaporator water temp. 23°C; leaving evaporator water temp. 18°C

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
- Daikin scroll compressor
- New casing for the outdoor units
- Separate MMI-2 controller for indoor installation

EWAA

Cooling Only					EWAA	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	5.71	5.59
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		
	Per circuit				TCO2Eq	2.6		
Unit	Running current	Max			A	30.8		
Power supply	Phase/Frequency/Voltage				Hz/V	1~/50/230		

(1)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (2)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB

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
- Daikin scroll compressor
- New casing for the outdoor units
- Separate MMI-2 controller for indoor installation

EWAA

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	5.71	5.59
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		
	Per circuit				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

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
- Daikin scroll compressor
- New casing for the outdoor units
- Separate MMI-2 controller for indoor installation

EWAA

Cooling Only					EWAA	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	5.71	5.59
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		
	Per circuit				TCO2Eq	2.6		
Unit	Running current	Max			A	30.8		
Power supply	Phase/Frequency/Voltage				Hz/V	1~/50/230		

(1)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (2)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB

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
- Daikin scroll compressor
- New casing for the outdoor units
- Separate MMI-2 controller for indoor installation

EWAA

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	5.71	5.59
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		
	Per circuit				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

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

EWAQ-CWN BRC21A52

Cooling Only					EWAQ-CWN	016	021	025	040	050
Space cooling	A Condition 35°C	Pdc			kW	16.8	21.0	25.3	42.1	50.5
	ηs,c				%	168	163	165	164	165
Cooling capacity	Nom.				kW	16.8	21.0	25.3	42.1	50.5
Power input	Cooling	Nom.			kW	5.93	7.61	9.60	15.1	19.2
Capacity control	Method					Inverter controlled				
	Minimum capacity				%	25				
EER						2.84	2.77	2.63	2.79	2.63
ESEER						4.37	4.26	4.17	4.28	4.18
Dimensions	Unit	Height			mm	1,684				
		Width			mm	1,370			2,360	
		Depth			mm	774			780	
Weight	Unit				kg	268	321		579	
Water heat exchanger	Type					Brazed plate				
	Water volume				l	3			6	
	Water pressure drop	Cooling	Total		kPa	8	10	14	10	14
Air heat exchanger	Type					Air cooled coil				
Compressor	Type					Hermetically sealed scroll compressor				
	Quantity					1	2		4	
Fan	Type					Axial				
	Quantity					1			2	
	Air flow rate	Cooling	Nom.		m^3/min	171	185		370	
Sound power level	Cooling	Nom.			dBA	78.0			81.0	
Operation range	Air side	Cooling	Min.~Max.		°CDB	-5~43				
	Water side	Cooling	Min.~Max.		°CDB	-10~20				
Refrigerant	Type/GWP					R-410A/2,087.5				
	Control					Electronic expansion valve				
	Circuits	Quantity				1			2	
Refrigerant charge	Per circuit				kg	7.60			7.60	
	Per circuit				TCO2Eq	15.9			15.9	
Water circuit	Piping connections diameter				inch	1-1/4" (female)			2" (female)	
	Piping				inch	1-1/4"			1-1/2"	
Unit	Starting current	Max			A	0.0	77.7	78.7	99.8	101.9
	Running current	Max			A	22.2	25.3	26.4	47.4	49.6
Power supply	Phase/Frequency/Voltage				Hz/V	3N~/50/400				

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
- EWAQ-CWP: Version with standard pump
- EWAQ-CWH: Version with optional high static pump

EWAQ-CWP/CWH

BRC21A52

Cooling Only					EWAQ	016CWP	021CWP	025CWP	032CWP	040CWP	050CWP	064CWP	016CWH	021CWH	025CWH	032CWH	040CWH	050CWH
Space cooling	A Condition 35°C	Pdc		kW		17.0	21.2	25.5	31.8	42.3	50.7	63.4	17.1	21.3	25.5	31.8	42.4	50.8
	ηs,c			%		184	178	180	163	168	172	161	178	173	176	161	163	168
Cooling capacity	Nom.			kW		17.0	21.2	25.5	31.8	42.3	50.7	63.3	17.0	21.2	25.5	31.8	42.3	50.7
Power input	Cooling	Nom.		kW		5.81	7.47	9.45	12.7	15.1	19.0	25.5	5.81	7.47	9.45	12.7	15.1	19.0
Capacity control	Method					Inverter controlled												
	Minimum capacity			%		25												
EER						2.93	2.84	2.70	2.50	2.80	2.67	2.48	2.93	2.84	2.70	2.50	2.80	2.67
ESEER						4.85	4.70	4.57	4.10	4.40	4.36	4.05	4.69	4.58	4.47	4.06	4.27	4.26
Dimensions	Unit	Height		mm		1,684												
		Width		mm		1,370			1,680	2,360		2,980	1,370			1,680	2,360	
		Depth		mm		774				780			774				780	
Weight	Unit			kg		280	332		414	604		765	283	336		417	612	
Water heat exchanger	Type					Brazed plate												
	Water volume			l		3			5	6		9	3			5	6	
	Water pressure drop	Cooling	Total	kPa		8	10	14	8	10	14	8	10	14		8	10	14
Air heat exchanger	Type					Air cooled coil												
Compressor	Type					Hermetically sealed scroll compressor												
	Quantity					1	2		3	4		6	1	2		3	4	
Fan	Type					Axial												
	Quantity					1			2			4	1			2		
	Air flow rate	Cooling	Nom.	m^3/min		171	185		233	370		466	171	185		233	370	
Sound power level	Cooling	Nom.		dBA		78.0			80.0	81.0		83.0	78.0			80.0	81.0	
Operation range	Air side	Cooling	Min.~Max.	°CDB		-5~43												
	Water side	Cooling	Min.~Max.	°CDB		-10~20												
Refrigerant	Type/GWP					R-410A/2,087.5												
	Control					Electronic expansion valve												
	Circuits	Quantity				1				2			1				2	
Refrigerant charge	Per circuit			kg		7.60			9.60	7.60		9.60	7.60			9.60	7.60	
	Per circuit			TCO2Eq		15.9			20.0	15.9		20.0	15.9			20.0	15.9	
Water circuit	Piping connections diameter			inch		1-1/4" (female)				2" (female)			1-1/4" (female)				2" (female)	
	Piping			inch		1-1/4"				1-1/2"			1-1/4"				1-1/2"	
Unit	Starting current	Max		A		0.0	77.7	78.7	88.7	99.8	101.9	120.7	0.0	79.9	81.7	91.7	103.7	106.3
	Running current	Max		A		22.2	25.3	26.4	35.2	47.4	49.6	67.2	24.4	27.5	29.4	38.2	51.3	54.0
Power supply	Phase/Frequency/Voltage			Hz/V		3N~/50/400												

Air cooled screw chiller with free cooling, high efficiency, standard/low sound

› Free cooling chiller for space cooling and industrial processes
› Stepless single-screw compressor
› Greater energy savings and reduced CO2 emissions during cold season
› Wide operating range
› MicroTech 4 controller with superior control logic and easy interface

Cooling only				EWAD-CFXS/XL	640	770	850	900	C10	C11	C12	C13	C14	C15	C16
Cooling capacity	Nom.			kW	640 (1) / 415 (2)	772 (1) / 510 (2)	852 (1) / 583 (2)	902 (1) / 612 (2)	1,027 (1) / 701 (2)	1,089 (1) / 734 (2)	1,269 (1) / 902 (2)	1,349 (1) / 957 (2)	1,435 (1) / 963 (2)	1,493 (1) / 1,013 (2)	1,555 (1) / 1,039 (2)
Power input	Cooling	Nom.		kW	257 (1) / 53.7 (2)	272 (1) / 62.0 (2)	293 (1) / 64.7 (2)	324 (1) / 69.8 (2)	360 (1) / 75.7 (2)	399 (1) / 83.4 (2)	397 (1) / 86.4 (2)	439 (1) / 92.8 (2)	454 (1) / 101 (2)	492 (1) / 109 (2)	530 (1) / 115 (2)
Capacity control	Method				Stepless										
	Minimum capacity			%	12.5										
EER					2.49 (1) / 11.91 (2)	2.84 (1) / 12.44 (2)	2.90 (1) / 13.17 (2)	2.78 (1) / 12.93 (2)	2.85 (1) / 13.56 (2)	2.73 (1) / 13.05 (2)	3.19 (1) / 14.68 (2)	3.08 (1) / 14.55 (2)	3.16 (1) / 14.21 (2)	3.04 (1) / 13.72 (2)	2.93 (1) / 13.50 (2)
ESEER					3.44	3.52	3.78	3.50	3.74	3.54	3.88	3.78	4.01	3.96	3.85
IPLV					3.86	4.03	4.10	4.05	4.00	3.95	4.36	4.25	4.36	4.35	4.26
Dimensions	Unit	HeightxWidthxDepth		mm	2,565 x2,480 x6,300	2,565 x2,480 x7,200	2,565x2,480x8,100		2,565 x2,480 x9,000		2,565x2,480x10,800				
Weight (XS)	Unit			kg	7,760	8,340	8,900		10,160	10,420	11,900		12,540	12,620	12,670
	Operation weight			kg	8,515	9,100	9,705		11,169	11,429	13,276		14,516	14,596	14,646
Weight (XL)	Unit			kg	8,050	8,620	9,190		10,450	10,710	12,190		12,830	12,910	12,960
	Operation weight			kg	8,795	9,390	9,995		11,459	11,719	13,566		14,806	14,886	14,936
Water heat exchanger	Type				Single pass shell & tube										
	Water flow rate	Cooling	Nom.	l/s	27.8 (1) / 27.8 (2)	33.5 (1) / 33.5 (2)	37.0 (1) / 37.0 (2)	39.2 (1) / 39.2 (2)	44.6 (1) / 44.6 (2)	47.3 (1) / 47.3 (2)	55.1 (1) / 55.1 (2)	58.6 (1) / 58.6 (2)	62.4 (1) / 62.4 (2)	64.9 (1) / 64.9 (2)	67.6 (1) / 67.6 (2)
	Water pressure drop	Cooling	Nom.	kPa	85 (1) / 128 (2)	105 (1) / 172 (2)	90 (1) / 178 (2)	101 (1) / 198 (2)	111 (1) / 245 (2)	124 (1) / 272 (2)	98 (1) / 232 (2)	110 (1) / 259 (2)	139 (1) / 305 (2)	150 (1) / 328 (2)	162 (1) / 354 (2)
	Water volume			l	741	771	808		1,012		1,372		1,965		
Air heat exchanger	Type				High efficiency fin and tube type										
Compressor	Type				Asymmetric single screw compressor										
	Quantity				2										
Fan	Type				Direct propeller										
	Air flow rate	Nom.		l/s	50,368	60,441	70,515		80,588		95,253				
Sound power level (XS)	Cooling	Nom.		dBA	100.0		101.0			102.0		103.0			
Sound power level (XL)	Cooling	Nom.		dBA	96.0	97.0			98.0		99.0				
Sound pressure level (XS)	Cooling	Nom.		dBA	79.0	80.0				81.0	80.0				
Sound pressure level (XL)	Cooling	Nom.		dBA	76.0	77.0									
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20~45										
	Water side	Cooling	Min.~Max.	°CDB	-8~15										
Refrigerant	Type/GWP				R-134a/1,430										
	Circuits	Quantity			2										
Refrigerant charge				kg/TCO2Eq	64.0/91.5	73.0/104.4	81.0/115.8		91.0/130.1		107.0/153.0		112.5/160.9	124.0/177.3	
Piping connections	Evaporator water inlet/outlet (OD)				DN150PN16(168.3mm)				DN200PN16(219.1mm)				DN250PN16(273mm)		
Unit	Starting current	Max		A	605	619	658		924	971	1,030			1,073	1,086
	Running current	Cooling	Nom.	A	404	430	467	515	568	628	636	701	720	773	825
		Max		A	476	510	561	605	672	731	811	875		929	982
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400										

(1) Cooling: entering evaporator water temp. 16°C; leaving evaporator water temp. 10°C; ambient air temp. 35°C; full load operation.
(2) Data is calculated at ambient air temperature 5°C, inlet water temperature 16°C.

Air cooled screw chiller with free cooling, high efficiency, reduced sound

EWAD-CFXS/XL/XR

Microtech 4

Cooling Only				EWAD-CFXR	600	740	820	870	980	C10	C11	C12	C13	C14	C15
Cooling capacity	Nom.			kW	602 (1) / 374 (2)	739 (1) / 468 (2)	821 (1) / 539 (2)	866 (1) / 562 (2)	981 (1) / 644 (2)	1,034 (1) / 670 (2)	1,229 (1) / 825 (2)	1,302 (1) / 866 (2)	1,374 (1) / 889 (2)	1,424 (1) / 909 (2)	1,476 (1) / 929 (2)
Power input	Cooling	Nom.		kW	263 (1) / 46.6 (2)	278 (1) / 56.2 (2)	299 (1) / 58.5 (2)	334 (1) / 63.1 (2)	368 (1) / 68.5 (2)	412 (1) / 74.4 (2)	403 (1) / 80.0 (2)	450 (1) / 87.5 (2)	466 (1) / 93.4 (2)	511 (1) / 103 (2)	556 (1) / 109 (2)
Capacity control	Method				Stepless										
	Minimum capacity			%	12.5										
EER					2.29 (1) / 12.91 (2)	2.66 (1) / 13.17 (2)	2.75 (1) / 14.04 (2)	2.59 (1) / 13.71 (2)	2.67 (1) / 14.33 (2)	2.51 (1) / 13.89 (2)	3.05 (1) / 15.36 (2)	2.90 (1) / 14.87 (2)	2.95 (1) / 14.7 (2)	2.79 (1) / 13.85 (2)	2.66 (1) / 13.56 (2)
ESEER					3.59	3.66	3.89	3.62	3.83	3.63	4.13	3.89	4.09	4.02	3.92
IPLV					4.09	4.15	4.16	4.20	4.10	4.08	4.42	4.37	4.42		4.28
Dimensions	Unit	HeightxWidthxDepth		mm	2,565x2,480 x6,300	2,565x2,480 x7,200	2,565x2,480x8,100		2,565x2,480 x9,000		2,565x2,480 x10,800				
Weight	Unit			kg	8,050	8,620	9,190		10,450	10,710	12,190		12,830	12,910	12,960
	Operation weight			kg	8,795	9,390	9,995		11,459	11,719	13,566		14,806	14,886	14,936
Water heat exchanger	Type				Single pass shell & tube										
	Water flow rate	Cooling	Nom.	l/s	26.2 (1) / 26.2 (2)	32.1 (1) / 32.1 (2)	35.7 (1) / 35.7 (2)	37.6 (1) / 37.6 (2)	42.6 (1) / 42.6 (2)	44.9 (1) / 44.9 (2)	53.4 (1) / 53.4 (2)	56.6 (1) / 56.6 (2)	59.7 (1) / 59.7 (2)	61.9 (1) / 61.9 (2)	64.1 (1) / 64.1 (2)
	Water pressure drop	Cooling	Nom.	kPa	76 (1) / 115 (2)	97 (1) / 159 (2)	84 (1) / 167 (2)	93 (1) / 184 (2)	102 (1) / 225 (2)	113 (1) / 248 (2)	92 (1) / 219 (2)	103 (1) / 243 (2)	128 (1) / 282 (2)	137 (1) / 301 (2)	146 (1) / 321 (2)
	Water volume			l	741	771	808		1,012		1,372		1,965		
Air heat exchanger	Type				High efficiency fin and tube type										
Compressor	Type				Asymm single screw										
	Quantity				2										
Fan	Type				Direct propeller										
	Quantity				10	12	14		16		20				
	Air flow rate	Nom.		l/s	38,935	46,722	54,508		62,295		73,011				
	Speed			rpm	715										
Sound power level	Cooling	Nom.		dBA	92.0				94.0		95.0				
Sound pressure level	Cooling	Nom.		dBA	71.0	72.0				73.0	72.0			73.0	
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20~45										
	Water side	Cooling	Min.~Max.	°CDB	-8~15										
Refrigerant	Type/GWP				R-134a/1,430										
	Circuits	Quantity			2										
Refrigerant charge	Per circuit			kg	64.0	73.0	81.0		91.0		107.0		112.5	124.0	
	Per circuit			TCO2Eq	91.5	104.4	115.8		130.1		153.0		160.9	177.3	
Piping connections	Evaporator water inlet/outlet (OD)				DN150PN16(168.3mm)				DN200PN16(219.1mm)				DN250PN16(273mm)		
Unit	Starting current	Max		A	598	611	648		912	960	1,016			1,059	1,072
	Running current	Cooling	Nom.	A	411	439	473	526	580	647	645	717	738	800	862
		Max		A	462	493	542	585	649	708	783	847		901	954
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400										

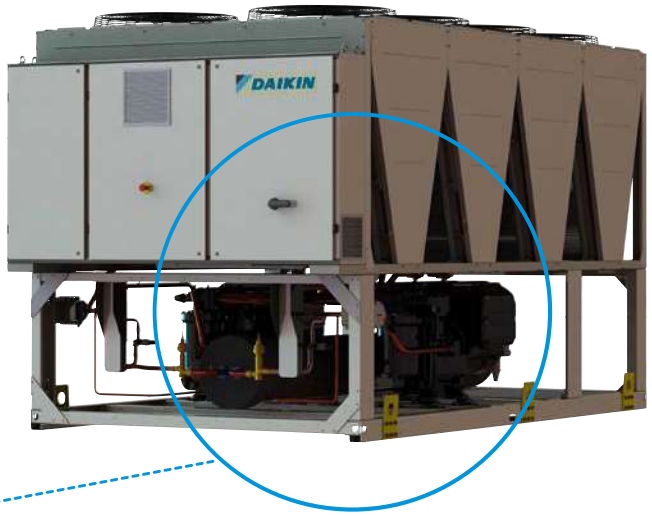
(1)Cooling: entering evaporator water temp. 16°C; leaving evaporator water temp. 10°C; ambient air temp. 35°C; full load operation.
(2)Data is calculated at ambient air temperature 5°C, inlet water temperature 16°C.

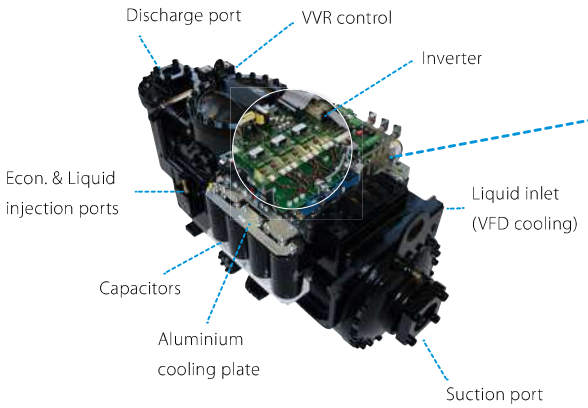
EWA(H)(D)-TZB/C screw inverter chiller High efficiency in comfort and process cooling

Over 1,000 sites around the world with screw chillers installed is demonstrating that we will never stop developing the most advanced technology with highest quality level to offer the best chiller experience to our customers.

EWA(H)(D)-TZB/C at a glance

› Full inverter air cooled chiller
› Capacity range from 190kW to 2000kW for series with R134a
› Capacity range from 170kW to 1500kW for series with R1234ze
› Daikin single screw compressor with integrated inverter
› Best efficiency at full load and part load conditions





Check on YouTube
www.youtube.com/DaikinEurope

› Daikin EWAD-TZB Screw Inverter Chiller

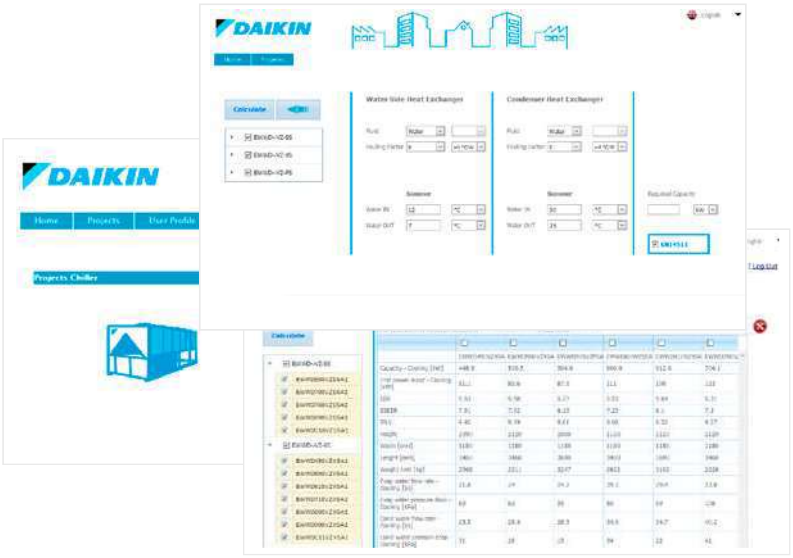
Web-based chiller selection software

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/



Why choose EWA(H)(D)-TZB/C?

High efficiencies both at full load and part load:

› Daikin compressor with in-built inverter for optimized efficiency
› In-house developed software with dynamic condensing pressure management and innovative economizer control logic

Rapid return on investment

› Payback of three years, compared to a non-inverter unit for comfort cooling applications
› Less than one year a for process cooling applications

Perfect comfort level

› Infinitely variable load regulation
› Precise leaving water temperature control thanks to stepless regulation

Compact design

› More compact heat exchanger with superior efficiencies
› Reduced electrical panel dimensions thanks to the inverter compressor mounted

Lowest sound levels

› Down to 87 dB(A) sound power at full load and even lower at part load thanks to fans and compressors variable speed
› Quiet compressor thanks to special acoustic executions
› Unique Daikin fans design with reduced noise impact and vibrations

Unrivaled and proven reliability

› Extensive testing of chillers and components in laboratories, Daikin factories and selected job sites - even at extreme working conditions
› Reduced energy demand without compromising on reliability and performance

Extensive option list

More than 60 different options are available to fit the EWA(H)(D)-TZB/C chiller to fit to your requirements:
› Rapid restart after power failure
› Variable speed water pumps to optimise the working efficiency
› Total heat recovery: 80 to 85% of the total heat rejection of the chiller can be recovered
› Partial heat recovery: 15 to 20% of the total heat rejection of the chiller can be recovered
› Refrigerant leak detection

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.

INVERTER

Air cooled screw inverter chiller, standard efficiency, standard/low sound

- Optimized energy efficiency both at full and part load conditions
- Inverter stepless single-screw compressor
- Advanced compressor technology featuring integrated inverter and variable volume ratio (VVR)
- Compact design for small footprint and minimized installation space
- Low operating sound levels are achieved by the latest compressor and fan design
- One or two truly independent refrigerant circuits for outstanding reliability

EWAD-TZB Microtech 4

Cooling Only					EWAD-TZSSB/SLB	160	190	240	270	300	360	380	455	500	570	610	660	700	820	900	990	C10	C11
Space cooling	A Condition 35°C	Pdc		kW		169.1	200.88	235.29	268.82	305.99	351.41	394.74	455.64	499.81	569.52	612.22	660.72	700.94	815.92	889.95	987.19	1,045.39	1,103.99
	ηs,c			%		168.2	172.6	169.4	175.4	177	183	172.6	171.4	175	180.2	189.8	182.6	185.4	197.4	194.2	200.6	200.2	200.6
SEER						4.28	4.39	4.31	4.46	4.5	4.65	4.39	4.63	4.65	4.58	4.82	4.64	4.71	5.01	4.93	5.09	5.08	5.09
Cooling capacity	Nom.			kW		169.1	200.9	235.3	268.8	306	351.4	394.7	455.6	499.8	569.5	612.2	660.7	700.9	816	890	987	1,045	1,104
Power input	Cooling	Nom.		kW		56.48	69.9	82.99	89.94	108.6	118	139.4	163.8	174.6	198.1	217.6	239	249.1	257.9	296.1	321.3	346.4	366.2
Capacity control	Minimum capacity			%		37	31	34	29	25	24	16	17	16	14	13	12		10				
EER						2.995	2.874	2.835	2.989	2.817	2.954	2.832	2.783	2.862	2.876	2.813	2.764	2.813	3.164	3.005	3.072	3.017	3.015
ESEER						4.37	4.46	4.3	4.4	4.42	4.5	4.46	4.44	4.49	4.54	4.59	4.63	4.7	4.43		4.44		4.51
IPLV						5.3	5.27	5.04	5.19	5.37	5.53	5.34	5.3	5.46	5.64	5.62		5.7	5.29	5.26	5.25	5.26	5.27
Dimensions	Unit	Height		mm		2,483													2,482				
		Width		mm		2,258																	
		Depth		mm		2,283			3,183			4,083		4,983		5,883			6,783		7,783	8,820	9,591
Weight (SSB)	Unit			kg		2,066	2,091	2,149	2,375	2,422	2,771	4,044	4,060	4,317	4,603	4,780	4,804	5,074	6,282	6,382	6,777	7,132	7,410
	Operation weight			kg		2,086	2,117	2,187	2,401	2,460	2,821	4,202	4,224	4,475	4,761	5,050	5,059	5,329	6,532	6,632	7,027	7,382	7,660
Weight (SLB)	Unit			kg		2,081	2,106	2,164	2,390	2,437	2,786	4,074	4,090	4,347	4,633	4,810	4,834	5,104	6,282	6,382	6,777	7,132	7,410
	Operation weight			kg		2,101	2,132	2,202	2,416	2,475	2,836	4,232	4,254	4,505	4,791	5,080	5,089	5,359	6,532	6,632	7,027	7,382	7,660
Water heat exchanger	Type					Plate heat exchanger						Shell and tube											
	Water volume			l		20.25	26.1	37.35	26.1	37.35	49.5	158	164	158		270	255		283	485			453
	Water flow rate	Cooling	Nom.	l/s		8.1	9.6	11.2	12.9	14.6	16.8	18.9	21.8	23.9	27.3	29.3	31.6	33.5	39.1	42.6	47.2	50	52.8
	Water pressure drop	Cooling	Nom.	kPa		25	19.3	15.4	32.6	25.2	25.9		32.4	44	55.7	38.8	32.3	36	52.6	36.9	42.2	46.6	37.3
Air heat exchanger	Type					Microchannel																	
Compressor	Type					Driven vapour compression																	
	Quantity					1						2											
Fan	Type					Direct propeller																	
	Quantity					4			6		8			10	12			14			16	18	20
	Air flow rate	Nom.		l/s		15,109			22,664		30,219			37,774	45,328			52,883	69,177		79,060	88,942	98,825
	Speed			rpm		700													900				
Sound power level (SSB)	Cooling	Nom.		dBA		96			97	98	99				100	101	102	105	102			103	
Sound power level (SLB)	Cooling	Nom.		dBA	90	91		92	93	94				95	96	97		99				100	
Sound pressure level (SSB)	Cooling	Nom.		dBA		77			78	79				80		82	84	81					
Sound pressure level (SLB)	Cooling	Nom.		dBA	71	72		73	74					75	76	77	78						
Operation range	Air side	Cooling	Min.~Max.	°CDB	-18~47														-18~45				
	Water side	Cooling	Min.~Max.	°CDB	-8~18														-15~20				
Refrigerant	Type/GWP				R-134a/1,430																		
	Charge			kg	27	29	33	38	41	52	58	59	68	75	77	83	90	91		104	117	130	
	Circuits	Quantity			1						2												
Refrigerant charge	Per circuit			TCO2Eq	38.6	41.5	47.2	54.3	58.6	74.4	41.5	42.2	48.6	53.6	55.1	59.3	64.4	65.1		74.4	83.7	93.0	
Piping connections	Evaporator water inlet/outlet (OD)				3"			4"			5"					6"			168.3 mm	219.1mm				
Unit	Running current	Cooling	Nom.	A	102	123	188	177	188	200	246	372	366	361	377	396	414	429	501	528	563	597	
		Max		A	130	149	160	187	220	246	298	320	350	374	439	466	486	537	599	652	708	768	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400																		

performances according to CSS software 10.27

INVERTER

Air cooled screw inverter chiller, standard efficiency, reduced sound

- Optimized energy efficiency both at full and part load conditions
- Inverter stepless single-screw compressor
- Advanced compressor technology featuring integrated inverter and variable volume ratio (VVR)
- Compact design for small footprint and minimized installation space
- Low operating sound levels are achieved by the latest compressor and fan design
- One or two truly independent refrigerant circuits for outstanding reliability

EWAD-TZB

Microtech 4

Cooling Only				EWAD-TZSRB	160	190	240	270	300	360	380	455	500	570	610	660	700	820	900	990	C10	C11
Space cooling	A Condition 35°C	Pdc		kW	169.1	200.88	235.29	268.82	305.99	351.41	394.01	454.57	499.14	568.6	610.43	658.99	699.87	799.95	894.94	956.14	1,013.27	1,067.02
	ηs,c			%	168.2	172.6	169.4	175.4	177	183	172.2	170.6	174.2	179.4	188.6	181.8	184.6	215	213.4	213.8	216.2	217.8
SEER					4.28	4.39	4.31	4.46	4.5	4.65	4.38	4.63	4.64	4.56	4.79	4.62	4.69	5.45	5.41	5.42	5.48	5.52
Cooling capacity	Nom.			kW	169.1	200.9	235.3	268.8	306	351.4	394	454.6	499.1	568.6	610.4	659	699.9	800	895	956	1,013	1,067
Power input	Cooling	Nom.		kW	56.48	69.9	82.99	89.94	108.6	118	140.2	164.8	175.4	199.1	218.4	240.3	250.3	247.8	294.1	316	335.6	358.9
Capacity control	Minimum capacity			%	37	31	34	29	25	24	16	17	16	14	13	12		10				
EER					2.995	2.874	2.835	2.989	2.817	2.954	2.81	2.759	2.846	2.856	2.795	2.742	2.796	3.229	3.043	3.016	3.018	2.973
ESEER					4.37	4.46	4.3	4.4	4.42	4.5	4.44	4.43	4.47	4.53	4.61	4.6	4.68	4.8		4.85	4.83	4.98
IPLV					5.3	5.27	5.04	5.19	5.37	5.53	5.3	5.26	5.43	5.6	5.61	5.6	5.67	5.92	5.74	5.77	5.75	5.86
Dimensions	Unit	Height		mm	2,483													2,482				
		Width		mm	2,258																	
		Depth		mm	2,283			3,183			4,083		4,983	5,883			6,783	7,783		8,820	9,591	10,461
Weight	Unit			kg	2,166	2,191	2,249	2,475	2,522	2,871	4,244	4,260	4,517	4,803	4,980	5,004	5,274	6,997	7,097	7,452	7,730	8,023
	Operation weight			kg	2,186	2,217	2,287	2,501	2,560	2,921	4,402	4,424	4,675	4,961	5,250	5,259	5,529	7,247	7,347	7,702	7,980	8,273
Water heat exchanger	Type				Plate heat exchanger						Shell and tube											
	Water volume			l	20.25	26.1	37.35	26.1	37.35	49.5	158	164	158		270	255		283	485			453
	Water flow rate	Cooling	Nom.	l/s	8.1	9.6	11.2	12.9	14.6	16.8	18.8	21.7	23.9	27.2	29.2	31.5	33.5	38.3	42.8	45.7	48.5	51
	Water pressure drop	Cooling	Nom.	kPa	25	19.3	15.4	32.6	25.2	25.9	25.8	32.2	43.9	55.5	38.6	32.2	35.9	52.1	36.3	41	45.6	36.3
Air heat exchanger	Type				Microchannel																	
Compressor	Type				Driven vapour compression																	
	Quantity				1						2											
Fan	Type				Direct propeller																	
	Quantity				4			6		8			10	12			14	16		18	20	22
	Air flow rate	Nom.		l/s	15,109			22,664		30,219	29,650		36,920	44,475			51,745	59,299		66,570	74,124	81,394
	Speed			rpm	700																	
Sound power level	Cooling	Nom.		dBA	86	87		88			90			91	92		94			95		
Sound pressure level	Cooling	Nom.		dBA	67	68			69		70				71		73					
Operation range	Air side	Cooling	Min.~Max.	°CDB	-18~47													-18~45				
	Water side	Cooling	Min.~Max.	°CDB	-8~18													-15~20				
Refrigerant	Type/GWP				R-134a/1,430																	
	Charge			kg	27	29	33	38	41	52	58	59	68	75	77	83	90	104		117	130	143
	Circuits	Quantity			1						2											
Refrigerant charge	Per circuit			TCO2Eq	38.6	41.5	47.2	54.3	58.6	74.4	41.5	42.2	48.6	53.6	55.1	59.3	64.4	74.4		83.7	93.0	102.2
Piping connections	Evaporator water inlet/outlet (OD)				3"			4"			5"				6"			168.3 mm	219.1mm			
Unit	Running current	Cooling	Nom.	A	102	123	188	177	188	200	247	374	368	363	378	398	416	422	496	530	561	599
		Max		A	130	149	160	187	220	246	298	320	350	374	439	466	486	523	585	635	688	745
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400																	

performances according to CSS software 10.27

INVERTER

Air cooled screw inverter chiller, high efficiency, standard/low sound

- High energy efficiency both at full and part load conditions
- Inverter stepless single-screw compressor with DC electrical motor
- Advanced compressor technology featuring integrated inverter and variable volume ratio (VVR)
- Continuous fans speed modulation thanks to inverter driven fans to improve part load efficiency
- Compact design for small footprint and minimized installation space
- Low operating sound levels are achieved by the latest compressor and fan design
- One or two truly independent refrigerant circuits for outstanding reliability

Cooling Only					EWAD-TZXSB/XLB	190	220	240	290	320	360	420	450	540	570	610	660	680	770	850	910	C10	C11
Space cooling (XSB)	A Condition 35°C	Pdc		kW		180.41	211.34	239.54	203	202.6	195.4	198.2	199.8	201	563.39	599.41	639.37	678.22	763.88	850.16	911.93	1,001.2	1,045.43
	ηs,c			%		195	198.6	195.4	5.15	5.14	4.96	5.03	5.07	5.1	198.6	203.8	206.2	205.4	228.6	226.6	233.4	243	237
Space cooling (XLB)	A Condition 35°C	Pdc		kW		180.41	211.34	239.54	276.79	313.2	360.56	417.27	472.59	528.99	563.39	599.41	639.37	678.22	763.88	850.16	911.93	1,001.2	1,045.43
	ηs,c			%		195	198.6	195.4	203	202.6	195.4	198.2	199.8	201	198.6	203.8	206.2	205.4	228.6	226.6	233.4	243	237
SEER						4.95	5.04	4.96	5.15	5.14	4.96	5.03	5.07	5.1	5.04	5.17	5.23	5.21	5.79	5.74	5.91	6.15	6
Cooling capacity	Nom.			kW		180.4	211.3	239.5	276.8	313.2	360.6	417.3	472.6	529	563.4	599.4	639.4	678.2	764	850	912	1,001	1,045
Power input	Cooling	Nom.		kW		52.13	63.22	72.5	83.87	100.2	109.1	132.2	144.9	163.5	181.1	191.7	202.1	219.8	226.5	266.1	275.8	303.4	320.1
Capacity control	Minimum capacity			%		34	29	34	29	25	17	16	17	16	15	14	13		10				
EER						3.46	3.343	3.304	3.3	3.127	3.304	3.156	3.261	3.236	3.111	3.127	3.164	3.085	3.374	3.195	3.306	3.3	3.265
ESEER						5.11	5.06	4.99	5.09	5.13	5.14	5.09	5	5.07		5.11	5.15		5.09		5.13	5.15	5.22
IPLV						6.26	6.15	6.19	6.17		6.4	6.3	6.22		6.29	6.31	6.25	6.21	6.26	6.08	6.19	6.29	6.24
Dimensions	Unit	Height		mm		2,483													2,482				
		Width		mm		2,258																	
		Depth		mm		3,183			4,083		4,983			5,883		6,783	7,683		7,783		8,820	9,591	10,461
Weight (XSB)	Unit			kg		2,362	2,409	2,421	2,770		4,292		4,602	4,800		5,072	5,425		6,677	6,777	7,132	7,410	7,703
	Operation weight			kg		2,388	2,447	2,459	2,820		4,450		4,760	5,055		5,327	5,680		6,927	7,027	7,382	7,660	7,953
Weight (XLB)	Unit			kg		2,377	2,424	2,436	2,785		4,322		4,632	4,830		5,102	5,455		6,677	6,777	7,132	7,410	7,703
	Operation weight			kg		2,403	2,462	2,474	2,835		4,480		4,790	5,085		5,357	5,710		6,927	7,027	7,382	7,660	7,953
Water heat exchanger	Type					Plate heat exchanger					Shell and tube												
	Water volume			l		26.1	37.35		49.5		158			255					301	485			453
	Water flow rate	Cooling	Nom.	l/s		8.6	10.1	11.5	13.2	15	17.3	20	22.6	25.3	27	28.7	30.6	32.4	36.6	40.7	43.6	47.9	50
	Water pressure drop	Cooling	Nom.	kPa		16.4	13.2	16.2	17.1	21	34.3	31.2	39.7	36.7	41.1	27.1	30.5	33.3	40.5	33.5	37.5	42.4	34.3
Air heat exchanger	Type					Microchannel																	
Compressor	Type					Driven vapour compression																	
	Quantity					1					2												
Fan	Type					Direct propeller																	
	Quantity					6			8		10		12			14	16				18	20	22
	Air flow rate	Nom.		l/s		22,664			30,219		37,774		45,328			52,883	60,438				67,993	75,547	83,102
	Speed			rpm		700																	
Sound power level (XSB)	Cooling	Nom.		dBA		96	97	96	-						100		101						102
Sound power level (XLB)	Cooling	Nom.		dBA		91	92	91	92	93	94				95		96		97				
Sound pressure level (XSB)	Cooling	Nom.		dBA		77			78		79						80				79		
Sound pressure level (XLB)	Cooling	Nom.		dBA		72			73		74		73		74				75				
Operation range	Air side	Cooling	Min.~Max.	°CDB		-18~50																	
	Water side	Cooling	Min.~Max.	°CDB		-8~18													-15~20				
Refrigerant	Type/GWP (XSB)					R-134a/1,430			R-134a/-						R-134a/1,430								
	Type/GWP (XLB)					R-134a/1,430																	
	Charge			kg		36	39	40	51		64		74	80		89	96		104		117	130	143
	Circuits	Quantity				1					2												
Refrigerant charge	Per circuit			TCO2Eq		51.5	55.8	57.2	72.9		45.8		52.9	57.2		63.6	68.6		74.4		83.7	93.0	102.2
Piping connections	Evaporator water inlet/outlet (OD)					3"			4"		5"			6"					168.3 mm	219.1mm			
Unit	Running current	Cooling	Nom.	A		110	113		186	192	225	231	371.0	383	392	390	387	395	394	451	469	500	537
		Max		A		130	149	166	198	225	256	292	333	358	385	417	450	478	508	562	590	640	694
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400																	

performances according to CSS software 10.27

INVERTER

Air cooled screw inverter chiller, high efficiency, reduced sound

- High energy efficiency both at full and part load conditions
- Inverter stepless single-screw compressor with DC electrical motor
- Advanced compressor technology featuring integrated inverter and variable volume ratio (VVR)
- Continuous fans speed modulation thanks to inverter driven fans to improve part load efficiency
- Compact design for small footprint and minimized installation space
- Low operating sound levels are achieved by the latest compressor and fan design
- One or two truly independent refrigerant circuits for outstanding reliability

EWAD-TZB Microtech 4

Cooling Only					EWAD-TZXRB	190	220	240	290	320	360	420	450	540	570	610	660	680	770	850	910	C10	C11
Space cooling	A Condition 35°C	Pdc		kW		180.41	211.34	239.54	276.79	313.2	360.28	416.8	472.11	528.32	562.28	598.77	638.64	677.38	763.85	850.14	911.93	1,001.2	1,045.41
	ηs,c			%		195	198.6	195.4	203	202.6	194.6	198.2	199	200.2	198.2	202.6	205	204.6	229.8	229.4	233.4	244.2	237.8
SEER						4.95	5.04	4.96	5.15	5.14	4.94	5.03	5.05	5.08	5.03	5.14	5.2	5.19	5.82	5.81	5.91	6.18	6.02
Cooling capacity	Nom.			kW		180.4	211.3	239.5	276.8	313.2	360.3	416.8	472.1	528.3	562.3	598.8	638.6	677.4	764	850	912	1,001	1,045
Power input	Cooling	Nom.		kW		52.13	63.22	72.5	83.87	100.2	109.5	132.1	145.6	164.3	181.9	192.5	202	220.9	226.5	266.8	275.4	303.1	320.6
Capacity control	Minimum capacity			%		34	29	34	29	25	17	16	17	16	15	14	13		10				
EER						3.46	3.343	3.304	3.3	3.127	3.29	3.156	3.243	3.215	3.092	3.111	3.146	3.067	3.373	3.186	3.311	3.302	3.26
ESEER						5.11	5.06	4.99	5.09	5.13	5.12	5.09	4.99	5.04	5.05	5.13		5.07	5.09		5.13	5.15	5.22
IPLV						6.26	6.15	6.19	6.17		6.37	6.3	6.2		6.26	6.27	6.24	6.18	6.26	6.08	6.19	6.29	6.24
Dimensions	Unit	Height		mm		2,483													2,482				
		Width		mm		2,258																	
		Depth		mm		3,183			4,083		4,983		5,883			6,783	7,683		7,783		8,820	9,591	10,461
Weight	Unit			kg		2,462	2,509	2,521	2,870		4,492		4,802	5,000		5,272	5,625		6,997	7,097	7,452	7,730	8,023
	Operation weight			kg		2,488	2,547	2,559	2,920		4,650		4,960	5,255		5,527	5,880		7,247	7,347	7,702	7,980	8,273
Water heat exchanger	Type					Plate heat exchanger					Shell and tube												
	Water volume			l		26.1	37.35		49.5		158			255					301	485			453
	Water flow rate	Cooling	Nom.	l/s		8.6	10.1	11.5	13.2	15	17.2	19.9	22.6	25.3	26.9	28.6	30.5	32.4	36.6	40.7	43.6	47.9	50
	Water pressure drop	Cooling	Nom.	kPa		16.4	13.2	16.2	17.1	21	34.2	31.1	39.7	36.6	41	27.1	30.4	33.2	40.3	33.3	37.3	42.3	34.2
Air heat exchanger	Type					Microchannel																	
Compressor	Type					Driven vapour compression																	
	Quantity					1					2												
Fan	Type					Direct propeller																	
	Quantity					6			8		10		12			14	16				18	20	22
	Air flow rate	Nom.		l/s		22,664			30,219		36,920		44,475			51,745	59,299				66,570	74,124	81,394
	Speed			rpm		700																	
Sound power level	Cooling	Nom.		dBA		88			89		90		91				92		94		95		
Sound pressure level	Cooling	Nom.		dBA		68			69		70						71		73				
Operation range	Air side	Cooling	Min.~Max.	°CDB		-18~50																	
	Water side	Cooling	Min.~Max.	°CDB		-8~18													-15~20				
Refrigerant	Type/GWP					R-134a/1,430																	
	Charge			kg		36	39	40	51		64		74	80		89	96		104		117	130	143
	Circuits	Quantity				1					2												
Refrigerant charge	Per circuit			TCO2Eq		51.5	55.8	57.2	72.9		45.8		52.9	57.2		63.6	68.6		74.4		83.7	93.0	102.2
Piping connections	Evaporator water inlet/outlet (OD)					3"			4"		5"			6"					168.3 mm	219.1mm			
Unit	Running current	Cooling	Nom.	A		110	113		186	192	226	231	373.0	385	393	391	389	396	395	453	471	502	539
		Max		A		130	149	166	198	225	256	292	333	358	385	417	450	478	508	562	590	640	694
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400																	

performances according to CSS software 10.27

INVERTER

Air cooled screw inverter chiller, premium efficiency, standard/low sound

- Premium energy efficiency both at full and part load conditions
- Inverter stepless single-screw compressor with DC electrical motor
- Advanced compressor technology featuring integrated inverter and variable volume ratio (VVR)
- Continuous fans speed modulation with EC fans for even higher part load efficiency
- Compact design for small footprint and minimized installation space
- Low operating sound levels are achieved by the latest compressor and fan design
- One or two truly independent refrigerant circuits for outstanding reliability

Cooling Only				EWAD-TZPSB/PLB	190	220	240	290	300	350	420	495	550	620	720	820	950
Space cooling	A Condition 35°C	Pdc		kW	183.62	216.12	244.42	281.93	323.37	378.96	437.31	501.15	543.03	620	717	832.86	949.85
	ηs,c			%	204.6	210.2	208.6	209	217	207	211.4	221.8	219	241.4	245.8	249	249.4
SEER					5.19	5.33	5.29	5.3	5.5	5.25	5.36	5.62	5.55	6.11	6.22	6.3	6.31
Cooling capacity	Nom.			kW	183.6	216.1	244.4	281.9	323.4	379	437.3	501.2	543	620	717	833	950
Power input	Cooling	Nom.		kW	50.48	60.72	68.74	83.43	95.89	104.6	124.9	139.1	151.4	178.8	182.3	220.4	252.5
Capacity control	Minimum capacity			%	34	29	34	29	27	19	20	17	10				
EER					3.637	3.559	3.555	3.379	3.372	3.623	3.502	3.603	3.586	3.468	3.933	3.78	3.763
ESEER					5.54	5.51	5.42	5.4	5.35	5.48		5.45	5.5	5.42	5.59	5.54	5.55
IPLV					6.49	6.35	6.41	6.35	6.21	6.52	6.58	6.55	6.51	6.47	6.73	6.6	6.64
Dimensions	Unit	Height		mm	2,483								2,482				
		Width		mm	2,258												
		Depth		mm	4,083				4,983	5,883	6,783		8,820	9,591		10,461	11,233
Weight (PSB)	Unit			kg	2,758		2,769	2,770	3,020	4,735	5,069	5,077	6,527	6,555	7,650	7,943	8,240
	Operation weight			kg	2,808		2,819	2,820	3,070	4,990	5,324	5,332	6,777	6,805	7,900	8,193	8,490
Weight (PLB)	Unit			kg	2,773		2,784	2,785	3,035	4,765	5,099	5,107	6,527	6,555	7,650	7,943	8,240
	Operation weight			kg	2,823		2,834	2,835	3,085	5,020	5,354	5,362	6,777	6,805	7,900	8,193	8,490
Water heat exchanger	Type				Plate heat exchanger					Shell and tube							
	Water volume			l	49.5					255			307		485		453
	Water flow rate	Cooling	Nom.	l/s	8.8	10.3	11.7	13.5	15.5	18.1	20.9	24	26	29.6	34.3	39.8	45.4
	Water pressure drop	Cooling	Nom.	kPa	10.6	11	13.4	17.1	21.5	20.4	26.5	33.3	19.8	25	24.2	31.7	29
Air heat exchanger	Type				Microchannel												
Compressor	Type				Driven vapour compression												
	Quantity				1					2							
Fan	Type				Direct propeller												
	Quantity				8				10	12	14	16	18	20		22	24
	Air flow rate	Nom.		l/s	29,610				37,013	44,415	51,818	59,220	66,623	74,025		81,428	88,830
	Speed			rpm	700												
Sound power level (PSB)	Cooling	Nom.		dBA	97				98	99		100	101				
Sound power level (PLB)	Cooling	Nom.		dBA	91	92	91	92		94			97				
Sound pressure level (PSB)	Cooling	Nom.		dBA	77					78	77	78	79				
Sound pressure level (PLB)	Cooling	Nom.		dBA	71	72	71	72		73	72	73	75				
Operation range	Air side	Cooling	Min.~Max.	°CDB	-18~52										-18~55		
	Water side	Cooling	Min.~Max.	°CDB	-8~18										-15~20		
Refrigerant	Type/GWP				R-134a/1,430												
	Charge			kg	49		50	51	58	77	86	94	105	114	130	143	156
	Circuits	Quantity			1					2							
Refrigerant charge	Per circuit			TCO2Eq	70.1		71.5	72.9	82.9	55.1	61.5	67.2	75.1	81.5	93.0	102.2	111.5
Piping connections	Evaporator water inlet/outlet (OD)				3"		4"			6"			168.3 mm		219.1mm		
Unit	Running current	Cooling	Nom.	A	101	104	172	177		208	211	346	258	298	316	375	424
		Max		A	126	144	162	188	218	246	285	324	352	436	437	512	577
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400												

performances according to CSS software 10.27

INVERTER

Air cooled screw inverter chiller, premium efficiency, reduced sound

- Premium energy efficiency both at full and part load conditions
- Inverter stepless single-screw compressor with DC electrical motor
- Advanced compressor technology featuring integrated inverter and variable volume ratio (VVR)
- Continuous fans speed modulation with EC fans for even higher part load efficiency
- Compact design for small footprint and minimized installation space
- Low operating sound levels are achieved by the latest compressor and fan design
- One or two truly independent refrigerant circuits for outstanding reliability

EWAD-TZB Microtech 4

Cooling Only				EWAD-TZPRB	190	220	240	290	300	350	420	495	550	620	720	820	950
Space cooling	A Condition 35°C	Pdc		kW	187.3	218.24	246.75	279.23	317.21	382.29	436.87	505.48	543.03	620.04	717	832.86	949.86
	ηs,c			%	208.6	212.2	210.6	207	212.2	208.2	210.2	221	218.2	219.8	248.6	249.4	251
SEER					5.29	5.38	5.34	5.25	5.38	5.28	5.33	5.6	5.53	5.57	6.29	6.31	6.35
Cooling capacity	Nom.			kW	187.3	218.2	246.8	279.2	317.2	382.3	436.9	505.5	543	620	717	833	950
Power input	Cooling	Nom.		kW	50.48	60.72	68.74	83.42	95.88	105.1	125.3	139.7	151.3	178.5	182.2	220.2	252.4
Capacity control	Minimum capacity			%	34	29	34	29	27	19	20	17	10				
EER					3.71	3.594	3.59	3.347	3.308	3.637	3.486	3.618	3.59	3.473	3.935	3.783	3.764
ESEER					5.55	5.52	5.27	5.16	5.2	5.32	5.21	5.38	5.5	5.42	5.59	5.54	5.55
IPLV					6.49	6.35	6.23	6.07	6.04	6.3	6.27	6.47	6.53	6.47	6.73	6.6	6.64
Dimensions	Unit	Height		mm	2,483								2,482				
		Width		mm	2,258												
		Depth		mm	4,083				4,983	5,883	6,783		8,820	9,591		10,461	11,233
Weight	Unit			kg	2,858		2,869	2,870	3,120	4,935	5,269	5,277	6,677	6,705	7,970	8,263	8,560
	Operation weight			kg	2,908		2,919	2,920	3,170	5,190	5,524	5,532	6,927	6,955	8,220	8,513	8,810
Water heat exchanger	Type				Plate heat exchanger					Shell and tube							
	Water volume			l	49.5					255			307		485		453
	Water flow rate	Cooling	Nom.	l/s	9	10.4	11.8	13.3	15.2	18.3	20.9	24.2	26	29.6	34.3	39.8	45.4
	Water pressure drop	Cooling	Nom.	kPa	10.6	11	13.4	17.1	21.5	20.4	26.4	33.2	19.8	24.9	24.2	31.7	28.9
Air heat exchanger	Type				Microchannel												
Compressor	Type				Driven vapour compression												
	Quantity				1					2							
Fan	Type				Direct propeller												
	Quantity				8				10	12	14	16	18	20		22	24
	Air flow rate	Nom.		l/s	29,610				37,013	43,369	50,423	57,826	64,879	72,282		79,336	86,738
	Speed			rpm	700												
Sound power level	Cooling	Nom.		dBA	87	88	87	88		89	90		94	95			
Sound pressure level	Cooling	Nom.		dBA	67	68	67	68			69		73				
Operation range	Air side	Cooling	Min.~Max.	°CDB	-18~52										-18~55		
	Water side	Cooling	Min.~Max.	°CDB	-8~18										-15~20		
Refrigerant	Type/GWP				R-134a/1,430												
	Charge			kg	49		50	51	58	77	86	94	105	114	130	143	156
	Circuits	Quantity			1					2							
Refrigerant charge	Per circuit			TCO2Eq	70.1		71.5	72.9	82.9	55.1	61.5	67.2	75.1	81.5	93.0	102.2	111.5
Piping connections	Evaporator water inlet/outlet (OD)				3"		4"			6"			168.3 mm		219.1mm		
Unit	Running current	Cooling	Nom.	A	101	104	172	177		209	212	347	259	300	317	377	426
		Max		A	126	144	162	188	218	246	285	324	352	436	437	512	577
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400												

performances according to CSS software 10.27

INVERTER

Air cooled screw inverter chiller, standard efficiency, standard/low sound

- Optimized energy efficiency both at full and part load conditions
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1600 kW
- Includes new generation Daikin MicroTech 4 controller with higher memory capacity and faster microprocessor
- Microchannel coils

EWAD-TZSSC2/SLC2 Microtech 4

Cooling Only				EWAD-TZSSC2/SLC2	H11	H12	H13	C15	C16	H17	H18	H19
Space cooling	A Condition 35°C	Pdc	kW		1,189	1,259	1,355	1,508	1,644	1,766	1,875	1,965
	ηs,c		%		184.5	182.4	182.9	190.1	191.8	191.4	190.1	184.2
SEER					4.69	4.64	4.65	4.83	4.87	4.86	4.83	4.68
Cooling capacity	Nom.		kW		1,189	1,259	1,355	1,508	1,644	1,766	1,875	1,965
Power input	Cooling	Nom.	kW		380.9	413.4	438.6	485	532.8	581.8	636.4	709.3
Capacity control	Method				Variable							
	Minimum capacity		%		12.5							
EER					3.12	3.05	3.09	3.11	3.09	3.04	2.95	2.77
IPLV					4.85	4.8	4.78	5.14	5.11	5.07	5.04	4.99
Dimensions	Unit	Height	mm		2,540							
		Width	mm		2,282							
		Depth	mm		10,510		11,404		12,302	13,202	14,102	
Weight	Unit		kg		9,322		10,112	10,716	11,134	11,564	12,037	
	Operation weight		kg		9,879		11,123	11,727	12,145	12,575	13,048	
Water heat exchanger	Type				Shell and tube							
	Water volume		l		557		1,011					
	Water pressure drop	Cooling Nom.	kPa		57.1	63.3	40.5	49.1	57.4	65.2	72.7	79
Air heat exchanger	Type				Microchannel							
Compressor	Type				Inverter driven single screw compressor							
	Quantity				2							
Fan	Type				Direct propeller							
	Quantity				22		24		26	28	30	
	Air flow rate	Nom.	l/s		112,259		122,464		132,670	142,876	153,081	
	Speed		rpm		900							
Sound power level (SSC2)	Cooling	Nom.	dBA		100		101			102	103	
Sound power level (SLC2)	Cooling	Nom.	dBA		102	103	104		105		106	107
Sound pressure level (SSC2)	Cooling	Nom.	dBA		77		78		79			80
Sound pressure level (SLC2)	Cooling	Nom.	dBA		80	81	82	81	82		83	84
Refrigerant	Type/GWP				R-134a/1,430							
	Charge		kg		175		200		220	250	270	
	Circuits	Quantity			2							
Piping connections	Evaporator water inlet/outlet (OD)				219.1mm		273mm					
Unit	Running current	Cooling Nom.	A		646.5	691.1	733.0	813.9	884.0	962.8	1,044	1,149
		Max	A		913	969	1,027	1,165	1,205	1,301	1,398	1,487
Power supply	Phase/Frequency/Voltage		Hz/V		3~/50 /400							

performances according to CSS software 10.27

INVERTER

Air cooled screw inverter chiller, standard efficiency, reduced sound

- High energy efficiency both at full and part load conditions
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1600 kW
- Includes new generation Daikin MicroTech 4 controller with higher memory capacity and faster microprocessor
- Microchannel coils

EWAD-TZSRC2 Microtech 4

Cooling Only				EWAD-TZSRC2	11	12	13	15	16	17	18	19
Space cooling	A Condition 35°C	Pdc	kW		1,164	1,229	1,323	1,463	1,595	1,712	1,812	1,876
	ηs,c		%		206.8	201.6	203.1	204.1	205.3	205.0		201.4
SEER					5.24	5.12	5.15	5.18	5.21	5.20		5.11
Cooling capacity	Nom.		kW		1,164	1,229	1,323	1,463	1,595	1,712	1,812	1,876
Power input	Cooling	Nom.	kW		384.6	423.1	446	513.9	564.5	611.2	663.5	741.2
Capacity control	Method				Variable							
	Minimum capacity		%		12.5							
EER					3.03	2.91	2.97	2.85	2.83	2.80	2.73	2.53
IPLV					5.43	5.29	5.34	5.53		5.5	5.51	5.36
Dimensions	Unit	Height	mm		2,540							
		Width	mm		2,282							
		Depth	mm		10,510		11,404		12,302	13,202	14,102	
Weight	Unit		kg		9,322		10,112	10,716	11,134	11,564	12,037	
	Operation weight		kg		9,879		11,123	11,727	12,145	12,575	13,048	
Water heat exchanger	Type				Shell and tube							
	Water volume		l		557		1,011					
	Water pressure drop	Cooling Nom.	kPa		54	60.6	38.8	46.5	54.3	61.6	68.3	72.7
Air heat exchanger	Type				Microchannel							
Compressor	Type				Inverter driven single screw compressor							
	Quantity				2							
Fan	Type				Direct propeller							
	Quantity				22		24		26	28	30	
	Air flow rate	Nom.	l/s		81,518		89,145		96,375	104,002	111,232	
	Speed		rpm		700							
Sound power level	Cooling	Nom.	dBA		93		94			95	96	
Sound pressure level	Cooling	Nom.	dBA		70		71			72		73
Refrigerant	Type/GWP				R-134a/1,430							
	Charge		kg		175		200		220	250	270	
	Circuits	Quantity			2							
Piping connections	Evaporator water inlet/outlet (OD)				219.1mm		273mm					
Unit	Running current	Cooling Nom.	A		659.2	708.5	748.1	853.7	922.8	1,000	1,080	1,194
		Max	A		913	969	1,027	1,165	1,205	1,301	1,398	1,487
Power supply	Phase/Frequency/Voltage		Hz/V		3~/50 /400							

performances according to CSS software 10.27

INVERTER

Air cooled screw inverter chiller, high efficiency, standard sound

- High energy efficiency both at full and part load conditions
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1600 kW
- Includes new generation Daikin MicroTech 4 controller with higher memory capacity and faster microprocessor
- Microchannel coils

EWAD-TZXSC2 Microtech 4

Cooling Only					EWAD-TZXSC2	11	12	12	14	15	16	17
Space cooling	A Condition 35°C	Pdc		kW		1,124.00	1,280	1,206	1,399	1,539	1,667	1,780
	ηs,c			%		211.5	210.8	211.1	211.9	212.6	214.2	212.6
SEER						5.36	5.35		5.37	5.39	5.43	5.39
Cooling capacity	Nom.			kW		1,124	1,280	1,206	1,399	1,539	1,667	1,780
Power input	Cooling	Nom.		kW		354	401.6	375.9	431.7	478.8	524.7	575.4
Capacity control	Method					Variable						
	Minimum capacity			%		12.5						
EER						3.17	3.19	3.21	3.24	3.22	3.18	3.09
IPLV						5.54		5.58	5.79	5.7	5.66	5.65
Dimensions	Unit	Height		mm		2,540						
		Width		mm		2,282						
		Depth		mm		10,510	12,302	11,402		12,302	13,202	14,104
Weight	Unit			kg		9,322	10,515	10,112	10,716	11,134	11,564	12,037
	Operation weight			kg		9,879	11,526	11,123	11,727	12,145	12,575	13,048
Water heat exchanger	Type					Shell and tube						
	Water volume			l		557	1,011					
	Water pressure drop	Cooling	Nom.	kPa		51.6	36.6	32.8	42.9	50.9	58.8	66.1
Air heat exchanger	Type					Microchannel						
Compressor	Type					Inverter driven single screw compressor						
	Quantity					2						
Fan	Type					Direct propeller						
	Quantity					22	26	24		26	28	30
	Air flow rate	Nom.		l/s		83,897	99,151	91,524	122,464	132,670	142,876	153,081
	Speed			rpm		700			900			
Sound power level	Cooling	Nom.		dBA		95	97	96	101		102	
Sound pressure level	Cooling	Nom.		dBA		73	74	73	78		79	
Refrigerant	Type/GWP					R-134a/1,430						
	Charge			kg		175	220	200		220	250	270
	Circuits	Quantity				2						
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm		273mm				
Unit	Starting current	Max		A		0.0						
	Running current	Cooling	Nom.	A		608.8	686.1	647.1	735.8	806.6	874.7	957.5
		Max		A		918	994	939	1,085	1,124	1,218	1,313
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400						

performances according to CSS software 10.27

INVERTER

Air cooled screw inverter chiller, high efficiency, reduced sound

- High energy efficiency both at full and part load conditions
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1600 kW
- Includes new generation Daikin MicroTech 4 controller with higher memory capacity and faster microprocessor
- Microchannel coils

EWAD-TZXRC2 Microtech 4

Cooling Only				EWAD-TZXRC2	11	12	12	14	15	16	17
Space cooling	A Condition 35°C	Pdc	kW		1,122	1,204	1,279	1,362	1,499	1,625	1,735
	ηs,c		%		208.8	210.2	209.8	207.8	209.4	209.3	209.7
SEER					5.30	5.33	5.32	5.27	5.31		5.32
Cooling capacity	Nom.		kW		1,122	1,204	1,279	1,362	1,499	1,625	1,735
Power input	Cooling	Nom.	kW		356.3	377.3	403	450.1	501.4	547.6	598.6
Capacity control	Method				Variable						
	Minimum capacity		%		12.5						
EER					3.15	3.19	3.17	3.03	2.99	2.97	2.90
IPLV					5.51	5.55	5.49	5.64	5.65	5.64	5.6
Dimensions	Unit	Height	mm		2,540						
		Width	mm		2,282						
		Depth	mm		10,510	11,402	12,302	11,402	12,302	13,202	14,104
Weight	Unit		kg		9,322	10,112	10,515	10,716	11,134	11,564	12,037
	Operation weight		kg		9,879	11,123	11,526	11,727	12,145	12,575	13,048
Water heat exchanger	Type				Shell and tube						
	Water volume		l		557	1,011					
	Water pressure drop	Cooling Nom.	kPa		51.4	32.7	36.5	40.8	48.5	56.1	63.2
Air heat exchanger	Type				Microchannel						
Compressor	Type				Inverter driven single screw compressor						
	Quantity				2						
Fan	Type				Direct propeller						
	Quantity				22	24	26	24	26	28	30
	Air flow rate	Nom.	l/s		81,518	89,145	96,375	89,145	96,375	104,002	111,232
	Speed		rpm		700						
Sound power level	Cooling	Nom.	dBA		92	93	94	93	94	95	
Sound pressure level	Cooling	Nom.	dBA		70		71				72
Refrigerant	Type/GWP				R-134a/1,430						
	Charge		kg		175	200	220	200	220	250	270
	Circuits	Quantity			2						
Piping connections	Evaporator water inlet/outlet (OD)				219.1mm	273mm	219.1mm	273mm			
Unit	Starting current	Max	A		0.0						
	Running current	Cooling Nom.	A		612.3	651.0	689.6	762.5	834.0	901.3	982.6
		Max	A		918	939	994	1,085	1,124	1,218	1,313
Power supply	Phase/Frequency/Voltage		Hz/V		3~/50 /400						

performances according to CSS software 10.27

INVERTER

Air cooled screw inverter chiller, standard efficiency, standard/low sound

- Optimized energy efficiency both at full and part load conditions
- New single screw compressor geometry allowing performance optimization
- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- Refrigerant cooled inverter mounted on compressor all across the range
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1600 kW
- Includes new generation Daikin MicroTech 4 controller with higher memory capacity and faster microprocessor
- Microchannel coils

EWAH-TZSSC2/SLC2 Microtech 4

Cooling Only				EWAH-TZSSC2/SLC2	710	770	880	940	990	H10	C11	C12	C13	C14	C15	C16
Space cooling	A Condition 35°C	Pdc	kW		712.28	765.6	879.39	942.78	990.5	1,055.51	1,117.22	1,230.93	1,301.55	1,431.96	1,518.61	1,603.34
	ηs,c		%		181.52	183.08	182.16	181.72	182.84	181.4	182.24	179.28	193.88	192.32	190.76	188.92
SEER					4.613	4.652	4.629	4.618	4.646	4.61	4.631	4.557	4.922	4.883	4.844	4.798
Cooling capacity	Nom.		kW		712.3	765.6	879.4	942.8	990.5	1,056	1,117	1,231	1,302	1,432	1,519	1,603
Power input	Cooling	Nom.	kW		230.7	246.6	284.9	303.9	318.9	339.4	357.4	396	418.4	465.3	510.4	567.4
Capacity control	Method				Inverter controlled											
	Minimum capacity		%		12.5											
EER					3.088	3.104	3.087	3.102	3.107	3.11	3.126	3.109	3.111	3.077	2.975	2.826
IPLV					4.79	4.85	4.8	4.74	4.78	4.71	4.73	4.63	5.17	5.08	5.07	4.98
Dimensions	Unit	Height	mm		2,540											
		Width	mm		2,280											
		Depth	mm		6,909		7,809	8,709	9,602	10,510	11,402	12,302	11,402	12,302	13,202	14,102
Weight	Unit		kg		7,033		7,660	8,093	8,900	9,288	10,073	10,475	10,716	11,134	11,564	12,037
	Operation weight		kg		7,313		8,152	8,585	9,483	9,871	11,116	11,518	11,727	12,145	12,575	13,048
Water heat exchanger	Type				Shell and tube											
	Water volume		l		280		492		583		1,043		1,011			
	Water flow rate	Cooling	Nom.	l/s	33.97	36.51	41.94	44.96	47.24	50.34	53.27	58.70	62.06	68.28	72.41	76.45
	Water pressure drop	Cooling	Nom.	kPa	44.6	50.8	59.7	67.7	59.9	67.2	44.3	52.7	38.7	45.9	51	56.3
Air heat exchanger	Type				Microchannel											
Compressor	Type				Inverter driven single screw compressor											
	Quantity				2											
Fan	Type				Direct propeller, on/off fans											
	Quantity				14		16	18	20	22	24	26	24	26	28	30
	Air flow rate	Nom.	l/s		71,438		81,644	91,849	102,054	112,259	122,464	132,670	122,464	132,670	142,876	153,081
	Speed		rpm		900											
Sound power level (SSC2)	Cooling	Nom.	dBA		98		99	100	101		102	103	102		103	104
Sound power level (SLC2)	Cooling	Nom.	dBA		101		102	103	104	105	106	107	105	106	107	108
Sound pressure level (SSC2)	Cooling	Nom.	dBA		77		78		79		80	79			80	
Sound pressure level (SLC2)	Cooling	Nom.	dBA		80		81	82		83	84	83		84	85	
Refrigerant	Type/GWP				R-1234(ze)/7											
	Charge		kg		120		130	141	150	175	200	220	200	220	250	270
	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	408.6	433.3	493.5	521.5	549.9	579.6	612.7	668.8	718.8	780.9	848.9	934.8
		Max		A	609.0	640.0	717.0	763.0	811.0	869.0	924.0	1,032.0	1,029.0	1,119.0	1,198.0	1,226.0
Power supply	Phase/Frequency/Voltage		Hz/V		3~/50/400											

performances according to CSS software 10.27

INVERTER

Air cooled screw inverter chiller, standard efficiency, reduced sound

- Optimized energy efficiency both at full and part load conditions
- New single screw compressor geometry allowing performance optimization
- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- Refrigerant cooled inverter mounted on compressor all across the range
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1600 kW
- Includes new generation Daikin MicroTech 4 controller with higher memory capacity and faster microprocessor
- Microchannel coils

EWAH-TZSRC2 Microtech 4

Cooling Only				EWAH-TZSRC2	710	770	880	940	990	H10	C11	C12	C13	C14	C15	C16
Space cooling	A Condition 35°C	Pdc		kW	696.3	749.16	859.56	922.06	970.53	1,034.22	1,095.25	1,204.39	1,273.47	1,399.7	1,484.25	1,551.82
	ηs,c			%	204.76	202.64	202.68	204.16	209.88	207.24	210.36	207.08	216.56	213.72	213.96	213.16
SEER					5.194	5.141	5.142	5.179	5.322	5.256	5.334	5.252	5.489	5.418	5.424	5.404
Cooling capacity	Nom.			kW	696.3	749.2	859.6	922.1	970.5	1,034	1,095	1,204	1,273	1,400	1,484	1,552
Power input	Cooling	Nom.		kW	232.1	253	290.9	309.1	318.8	340.5	354	396.4	424.2	479.7	524.7	581
Capacity control	Method				Inverter controlled											
	Minimum capacity			%	12.5											
EER					3.001	2.962	2.955	2.983	3.044	3.038	3.094	3.038	3.002	2.918	2.829	2.671
IPLV					5.43	5.4	5.36	5.37	5.52	5.46	5.49	5.35	5.79	5.73	5.71	
Dimensions	Unit	Height		mm	2,540											
		Width		mm	2,280											
		Depth		mm	6,909		7,809	8,709	9,602	10,510	11,402	12,302	11,402	12,302	13,202	14,102
Weight	Unit			kg	7,033		7,660	8,093	8,900	9,288	10,073	10,475	10,716	11,134	11,564	12,037
	Operation weight			kg	7,313		8,152	8,585	9,483	9,871	11,116	11,518	11,727	12,145	12,575	13,048
Water heat exchanger	Type				Shell and tube											
	Water volume			l	280		492		583		1,043		1,011			
	Water flow rate	Cooling	Nom.	l/s	33.21	35.73	41.00	43.98	46.29	49.32	52.23	57.43	60.72	66.74	70.77	73.99
	Water pressure drop	Cooling	Nom.	kPa	42.8	48.9	57.3	64	57.8	64.8	42.7	50.7	37.2	44.1	48	53.1
Air heat exchanger	Type				Microchannel											
Compressor	Type				Inverter driven single screw compressor											
	Quantity				2											
Fan	Type				Direct propeller, on/off fans											
	Quantity				14		16	18	20	22	24	26	24	26	28	30
	Air flow rate	Nom.		l/s	51,803		59,430	66,660	74,287	81,518	89,145	96,375	89,145	96,375	104,002	111,232
	Speed			rpm	700											
Sound power level	Cooling	Nom.		dBA	91		92	93	94		95	96	95		96	97
Sound pressure level	Cooling	Nom.		dBA	70			71	72			73	72	73		74
Refrigerant	Type/GWP				R-1234(ze)/7											
	Charge			kg	120		130	141	150	175	200	220	200	220	250	270
	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	414.9	446.8	505.2	529.7	554.4	581.0	611.1	667.2	736.4	796.5	863.9	952.0
		Max		A	609.0	640.0	717.0	763.0	811.0	869.0	924.0	1,032.0	1,029.0	1,119.0	1,198.0	1,226.0
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400											

performances according to CSS software 10.27

INVERTER

Air cooled screw inverter chiller, high efficiency, standard/low sound

- High energy efficiency both at full and part load conditions
- New single screw compressor geometry allowing performance optimization
- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- Refrigerant cooled inverter mounted on compressor all across the range
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1600 kW
- Includes new generation Daikin MicroTech 4 controller with higher memory capacity and faster microprocessor
- Microchannel coils

EWAH-TZXSC2/XLC2 Microtech 4

Cooling Only				EWAH-TZXSC2/XLC2	670	780	840	950	C10	C11	C12	C13	C14	C15
Space cooling	A Condition 35°C	Pdc		kW	669.32	783.42	840.22	947.7	1,014.01	1,119.73	1,236.7	1,347.06	1,442.56	1,526.76
	ηs,c			%	209.96	211.56	212.8	215.88	216.72	213.16	219.2	218.36	217.48	216.32
SEER					5.324	5.364	5.395	5.472	5.493	5.404	5.555	5.534	5.512	5.483
Cooling capacity	Nom.			kW	669.3	783.4	840.2	947.7	1,014	1,120	1,237	1,347	1,443	1,527
Power input	Cooling	Nom.		kW	206	242	260.2	292.4	310.6	351.7	380.1	420.4	460.7	507.5
Capacity control	Method				Inverter controlled									
	Minimum capacity			%	12.5									
EER					3.249	3.237	3.229	3.241	3.264	3.184	3.253	3.204	3.131	3.009
IPLV					5.59		5.6	5.64	5.66	5.53	5.86	5.8	5.76	5.7
Dimensions	Unit	Height		mm	2,540									
		Width		mm	2,280									
		Depth		mm	6,909	7,809	8,709	10,510	11,402	12,302	11,402	12,302	13,202	14,102
Weight	Unit			kg	7,033	7,660	8,093	9,288	10,073	10,475	10,716	11,134	11,564	12,037
	Operation weight			kg	7,313	8,152	8,585	9,871	11,116	11,518	11,727	12,145	12,575	13,048
Water heat exchanger	Type				Shell and tube									
	Water volume			l	280	492		583	1,043		1,011			
	Water flow rate	Cooling	Nom.	l/s	31.92	37.36	40.07	45.20	48.35	53.39	58.97	64.23	68.78	72.80
	Water pressure drop	Cooling	Nom.	kPa	39.9	48.5	54	55.3	37.2	44.5	35.3	41.1	46.5	51.5
Air heat exchanger	Type				Microchannel									
Compressor	Type				Inverter driven single screw compressor									
	Quantity				2									
Fan	Type				Direct propeller, on/off fans									
	Quantity				14	16	18	22	24	26	24	26	28	30
	Air flow rate	Nom.		l/s	53,389	61,016	68,643	83,897	91,524	99,151	122,464	132,670	142,876	153,081
	Speed			rpm	700						900			
Sound power level (XSC2)	Cooling	Nom.		dBA	98	99	100	101	103	105	104	105	106	107
Sound power level (XLC2)	Cooling	Nom.		dBA	93	95		96	98	99	101	102		103
Sound pressure level (XSC2)	Cooling	Nom.		dBA	76	78		79	80		82		83	84
Sound pressure level (XLC2)	Cooling	Nom.		dBA	72	73		74	75	76	79			80
Refrigerant	Type/GWP				R-1234(ze)/7									
	Charge			kg	120	130	141	175	200	220	200	220	250	270
	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	373.9	431.3	459.1	513.1	544.2	604.8	660.3	717.4	778.2	848.9
		Max		A	588.0	625.0	693.0	754.0	836.0	936.0	967.0	1,042.0	1,132.0	1,157.0
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400									

performances according to CSS software 10.27

INVERTER

Air cooled screw inverter chiller, high efficiency, reduced sound

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- Microchannel coils

EWAH-TZXRC2 Microtech 4

Cooling Only				EWAH-TZXRC2	670	780	840	950	C10	C11	C12	C13	C14	C15
Space cooling	A Condition 35°C	Pdc		kW	669.17	783.17	840	947.47	1,013.69	1,119.41	1,212.9	1,321.24	1,415.52	1,497.21
	ηs,c			%	208.32	211.4	212.68	215.84	216.12	212.64	219.4	220.16	218.84	217.44
SEER					5.283	5.36	5.392	5.471	5.478	5.391	5.56	5.579	5.546	5.511
Cooling capacity	Nom.			kW	669.2	783.2	840	947.5	1,014	1,119	1,213	1,321	1,416	1,497
Power input	Cooling	Nom.		kW	206.2	243.3	261.9	292.6	310.8	351.9	382.2	426	467.4	514.6
Capacity control	Method				Inverter controlled									
	Minimum capacity			%	12.5									
EER					3.246	3.219	3.207	3.238	3.261	3.181	3.174	3.101	3.029	2.91
IPLV					5.58		5.59	5.63	5.65	5.52	5.94	5.86	5.81	5.79
Dimensions	Unit	Height		mm	2,540									
		Width		mm	2,280									
		Depth		mm	6,909	7,809	8,709	10,510	11,402	12,302	11,402	12,302	13,202	14,102
Weight	Unit			kg	7,033	7,660	8,093	9,288	10,073	10,475	10,716	11,134	11,564	12,037
	Operation weight			kg	7,313	8,152	8,585	9,871	11,116	11,518	11,727	12,145	12,575	13,048
Water heat exchanger	Type				Shell and tube									
	Water volume			l	280	492		583	1,043		1,011			
	Water flow rate	Cooling	Nom.	l/s	31.91	37.35	40.06	45.19	48.34	53.38	57.83	63.00	67.49	71.39
	Water pressure drop	Cooling	Nom.	kPa	39.9	48.4	54	55.3	37.2	44.4	34.1	39.7	44	49.7
Air heat exchanger	Type				Microchannel									
Compressor	Type				Inverter driven single screw compressor									
	Quantity				2									
Fan	Type				Direct propeller, on/off fans									
	Quantity				14	16	18	22	24	26	24	26	28	30
	Air flow rate	Nom.		l/s	51,803	59,430	66,660	81,518	89,145	96,375	89,145	96,375	104,002	111,232
	Speed			rpm	700									
Sound power level	Cooling	Nom.		dBA	90	91	92	93	94	95	94	95	96	
Sound pressure level	Cooling	Nom.		dBA	69	70		71		72				73
Refrigerant	Type/GWP				R-1234(ze)/7									
	Charge			kg	120	130	141	175	200	220	200	220	250	270
	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	374.9	432.6	460.2	514.2	545.4	606.0	670.1	725.0	783.7	853.8
		Max		A	588.0	625.0	693.0	754.0	836.0	936.0	967.0	1,042.0	1,132.0	1,157.0
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400									

performances according to CSS software 10.27

Air Cooled Screw Chiller - fix speed

- Optimised for use with R-134a
- Large operation range (ambient temperature down to -18°C)
- 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
- 2 or 3 independent refrigerant circuits for outstanding reliability and maximum safety for maintenance
- Extremely wide range from 290kW to over 2 MW
- Units with stepless regulation offer the benefit of following the system energy demand at any time with high efficiency if compared to the units with step regulation. Each unit has infinitely variable capacity control from 100% down to 12,5%
- Advanced compressor and fans design that operate at very low sound levels
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

EWAD-T-SSC/SLC

Microtech 4

Cooling Only				EWAD-T-SSC/SLC	290	330	370	510	520	580	700	800	940	C10	C11	C17	C19	C20	C21	H10	H12	H13	H14	H15	H16	H18
Cooling capacity	Nom.			kW	293	335	374	501	525	567	704	810	933	993	1,135	1,760	1,930	2,026	2,103	1,047	1,243	1,346	1,442	1,555	1,684	1,856
Power input	Cooling	Nom.		kW	92.9	113	120	165	170	187	233	269	307	349	395	611	680	706	731	373	443	471	501	533	565	662
Capacity control	Method				Stepless																					
	Minimum capacity			%	12.5																					
SEPR					5.14	5.1	5.16	5.5			5.51	5.56	5.51	5.52	5.51	5.42	5.38	5.51	5.5	5.52	5.5	5.54	5.56	5.5
EER					3.15	2.94	3.1	3.02	3.07	3.03	3.01		3.03	2.85	2.87	2.88	2.84	2.87		2.8		2.85	2.88	2.92	2.98	2.8
IPLV					4.31	4.22	4.35	4.9	4.78	5.04	4.63	4.56	4.63	4.65	4.67	4.6		4.5	4.46	4.57	4.64	4.62	4.63	4.64	4.6	4.63
Dimensions	Unit	Height		mm	2,540																					
		Width		mm	2,282																					
		Depth		mm	3,239		4,139		5,039		6,009		6,909	7,809	11,409	12,309	13,209	14,109		6,909	7,809	8,709	9,609	10,510	11,409	
Weight	Unit			kg	3,062		4,104	4,724	4,860		5,316	5,663	5,950	6,468	11,277	11,808	11,999			6,490	7,062	7,362	7,654	10,157	11,277	11,385
	Operation weight			kg	3,162		4,274	4,894	5,030		5,402	5,903	6,240	6,768	12,148	12,761	13,034			7,002	7,554	7,842	8,134	10,657	12,148	12,338
Water heat exchanger	Type				Shell and tube																					
	Water volume			l	89		181	164	170	164	315	240	289	502	871	953	103			518	492	470	461	522	871	953
	Water flow rate	Cooling	Nom.	l/s	14	16	17.9	23.9	25	27.1	33.6	38.7	44.5	47.4	54.2	84	92	96.6	100	49.9	59.3	64.2	68.8	74.1	80.3	88.5
	Water pressure drop	Cooling	Nom.	kPa	24.5	31.2	45.3	34	51.8	67.2	46.9	34.4	42.9	48	57.1	40.2	43.4	43.9	46.9	44.6	35.3	46.2	56	65.9	37.1	40.4
Air heat exchanger	Type				Microchannel																					
Compressor	Type				Asymm single screw																					
	Quantity				2											3				2				3		
Fan	Type				Direct propeller, on/off fans																					
	Quantity				6		8		10		12		14	16	24	26	28	30		14	16	18	20	22	24	
	Air flow rate	Nom.		l/s	30,245		40,326		50,408		60,490		70,571	80,653	120,981	131,062	141,143	151,224		70,572	80,654	90,735	100,816	110,899	120,981	
	Speed			rpm	900																					
Sound power level (SSC)	Cooling	Nom.		dBA	98						99		100		103					100		101		103		
Sound pressure level (SSC)	Cooling	Nom.		dBA	78								79	78	80					79	78	79		80		
Sound power level (SLC)	Cooling	Nom.		dBA	94		95				96		97	98	100					97		98		99	100	
Sound pressure level (SLC)	Cooling	Nom.		dBA	74		75						76		77					76				77		
Refrigerant	Type				R-134a																					
	Charge			kg	50		55	58	66	67	93.6		109.2	124.8	187	203	218	234		109.2	124.8	140.4	156	172	187	
	Circuits	Quantity			2										3					2				3		
Piping connections	Evaporator water inlet/outlet (OD)				114.3		139.7				168.3			219.1	273mm					219.1mm					273mm	
Unit	Starting current	Max		A	260	320	354	576	583	606	642	694	909	922	1,025	1,515	1,604	1,668	1,732	1,005	1,141	1,160	1,225	1,440	1,446	1,584
	Running current	Cooling	Nom.	A	161	189	204	272	278	303	377	418	476	526	602	920	1,019	1,059	1,093	558	660	704	742	812	860	984
		Max		A	226	256	290	364	394	417	519	571	654	712	815	1,260	1,394	1,458	1,522	750	886	950	1,015	1,116	1,191	1,329
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400																					

performances according to CSS software 10.27

Air Cooled Screw Chiller - fix speed

- Optimised for use with R-134a
- Large operation range (ambient temperature down to -18°C)
- 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
- 2 or 3 independent refrigerant circuits for outstanding reliability and maximum safety for maintenance
- Extremely wide range from 290kW to over 2 MW
- Units with stepless regulation offer the benefit of following the system energy demand at any time with high efficiency if compared to the units with step regulation. Each unit has infinitely variable capacity control from 100% down to 12,5%
- Advanced compressor and fans design that operate at very low sound levels
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

EWAD-T-XSC/XLC

Microtech 4

Cooling Only				EWAD-T-XSC/XLC	350	380	400	420	440	490	540	570	730	820	950	C10	C13	C14	C17	C19	C20	H10	H11	H13	H15	H16	H18
Cooling capacity	Nom.			kW	351	379	400	418	438	492	541	560	728	822	943	1,008	1,278	1,447	1,836	2,019	2,076	1,081	1,169	1,371	1,606	1,705	1,947
Power input	Cooling	Nom.		kW	105	115	121	128	138	159	165	175	241	271	299	333	412	482	587	660	700	348	375	439	519	551	621
Capacity control	Method				Stepless																						
	Minimum capacity			%	12.5																						
SEPR					5.18	5.52	5.54	5.51	5.51	5.5	5.55	5.52	5.61	5.52	5.56	5.55	5.59	5.57	5.52	5.56	5.58	5.57	5.57	5.58	5.58		
EER					3.32	3.29	3.24	3.16	3.09	3.26	3.19	3.01	3.02	3.15	3.02	3.1	3	3.13	3.05	2.96	3.1	3.11	3.12	3.09	3.14		
IPLV					4.15	4.34	4.6	4.77	4.46	4.82	4.88	4.97	4.68	4.54	4.76	4.69	4.56	4.62	4.67	4.6	4.65	4.69	4.7	4.6	4.62		
Dimensions	Unit	Height		mm	2,540																						
		Width		mm	2,282																						
		Depth		mm	4,139		5,039				6,009				7,809	9,609	10,510	13,209	14,109		8,709	9,609	10,510	11,409	12,309	14,109	
Weight	Unit			kg	4,064		4,360		4,860		5,398		5,316	5,663	6,376	7,654	8,020	11,581	11,999		7,362	7,392	8,020	11,277	11,684	11,672	
	Operation weight			kg	4,234		4,530		5,030		5,568		5,402	5,903	6,676	8,134	8,470	12,511	13,034		7,842	7,872	8,470	12,148	12,555	12,602	
Water heat exchanger	Type				Shell and tube																						
	Water volume			l	134	129		170			164	170	315	232	289	492	470	522	101		502		481	871		522	
	Water flow rate	Cooling	Nom.	l/s	16.7	18.1	19.1	19.9	20.9	23.5	25.8	26.7	34.7	39.2	45	48.1	60.9	69	87.6	96.3	99	51.6	55.8	65.4	76.6	81.3	92.9
	Water pressure drop	Cooling	Nom.	kPa	22.3	28.7	19.9	21.6	23.5	46	38.9	36.6	32	38.5	43.7	49.3	37.1	52.6	43	46	48.4	52.3	60.1	45	34.1	37.9	47.7
Air heat exchanger	Type				Microchannel																						
Compressor	Type				Asymm single screw																						
	Quantity				2														3			2			3		
Fan	Type				Direct propeller, on/off fans																						
	Quantity				8		10				12				16	20	22	28	30		18	20	22	24	26	30	
	Air flow rate	Nom.		l/s	40,326		50,408				60,490				80,653	100,816	110,898	141,143	151,224		90,735	100,817	110,898	120,981	131,062	151,224	
	Speed			rpm	900																						
Sound power level (XSC)	Cooling	Nom.		dBA	98							99		100	101			103			100	101		103			
Sound pressure level (XSC)	Cooling	Nom.		dBA	78											79		80		78	79		80		79		
Sound power level (XLC)	Cooling	Nom.		dBA	95				96		97		98		99	100			98		99	100					
Sound pressure level (XLC)	Cooling	Nom.		dBA	75				76						77			76			77						
Refrigerant	Type				R-134a																						
	Charge			kg	52	54	65	66			72		93.6		124.8	156	171.6	218	234		140.4	156	171.6	187	203	234	
	Circuits	Quantity			2													3			2			3			
Piping connections	Evaporator water inlet/outlet (OD)				139.7								168.3			219.1mm		273mm			219.1mm			273mm			
Unit	Starting current	Max		A	296	340	361	454	478	583	589	612	642	694	916	929	1,154	1,231	1,528	1,616	1,674	1,018	1,038	1,173	1,446	1,453	1,603
	Running current	Cooling	Nom.	A	181	195	204	216	230	261	271	286	378	419	463	514	634	727	898	997	1,050	537	575	674	799	844	943
		Max		A	262	276	297	321	345	371	400	423	519	571	661	719	899	1,021	1,273	1,406	1,464	763	828	963	1,122	1,198	1,348
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400																						

performances according to CSS software 10.27

Air Cooled Screw Chiller - fix speed

- Optimised for use with R-134a
- Large operation range (ambient temperature down to -18°C)
- 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
- 2 or 3 independent refrigerant circuits for outstanding reliability and maximum safety for maintenance
- Extremely wide range from 290kW to over 2 MW
- Units with stepless regulation offer the benefit of following the system energy demand at any time with high efficiency if compared to the units with step regulation. Each unit has infinitely variable capacity control from 100% down to 12,5%
- Advanced compressor and fans design that operate at very low sound levels
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

EWAD-T-XSC/XLC/XRC

Microtech 4

Cooling Only				EWAD-T-XRC	350	380	400	420	440	490	540	570	730	820	950	C10	C13	C17	C19	C20	H10	H11	H13	H15	H16	H18
Cooling capacity	Nom.			kW	342	369	390	407	427	480	527	546	708	784	912	971	1,233	1,781	1,941	1,987	1,064	1,144	1,319	1,555	1,648	1,881
Power input	Cooling	Nom.		kW	107	116	122	130	140	161	167	177	251	281	309	350	427	607	688	739	364	390	455	541	568	638
Capacity control	Method				Stepless																					
	Minimum capacity			%	12.5																					
SEPR					5,16	5,14	5,51	5,52	5,5	5,5	5,5	5,5	5,5	5,52	5,52	5,5	5,52	5,55	5,56	5,5	5,55	5,56	5,53	5,53	5,54	5,55
EER					3.19	3.17	3.12	3.04	2.96	3.14	3.07	2.81	2.79	2.95	2.77	2.89	2.93	2.82	2.69	2.92	2.93	2.89	2.87	2.9	2.95	
IPLV					4.25	4.3	4.93	4.73	4.75	4.97	5.06	4.98	4.53	4.64	4.65	4.63	4.54	4.72	4.66	4.68	4.56	4.65	4.52	4.64	4.61	4.7
Dimensions	Unit	Height		mm	2,540																					
		Width		mm	2,282																					
		Depth		mm	4,139			5,039			6,009				7,809		9,609	13,209	14,109		8,709	9,609	10,510	11,409	12,309	14,109
Weight	Unit			kg	4,344			4,640		5,140	5,678		5,596	5,943	6,616		7,894	12,238	12,432		7,602	7,632	8,260	11,652	12,059	12,047
	Operation weight			kg	4,514			4,810		5,310	5,848		5,682	6,183	6,916		8,374	13,168	13,467		8,082	8,112	8,710	12,523	12,930	12,977
Water heat exchanger	Type				Shell and tube																					
	Water volume			l	134	129		170			164	170	315	232	289		492	522	101		502		481	871		522
	Water flow rate	Cooling	Nom.	l/s	16.3	17.6	18.6	19.4	20.4	22.9	25.1	26.1	33.8	37.4	43.5	46.3	58.8	84.9	92.6	94.7	50.7	54.5	62.9	74.1	78.6	89.7
	Water pressure drop	Cooling	Nom.	kPa	21.3	27.4	19.1	20.6	22.4	44.1	37.2	35	30.4	35.4	41.1	46	34.8	40.6	42.8	44.7	50.8	57.8	42	32.1	35.7	44.9
Air heat exchanger	Type				Microchannel																					
Compressor	Type				Asymm single screw																					
	Quantity				2													3			2			3		
Fan	Type				Direct propeller, on/off fans																					
	Quantity				8			10			12				16		20	28	30		18	20	22	24	26	30
	Air flow rate	Nom.		l/s	29,963			37,275			44,943				59,568	59,213	74,906	105,581	113,250		67,237	74,550	82,219	90,600	98,269	113,250
	Speed			rpm	700																					
Sound power level	Cooling	Nom.		dBA	89			90			91				92		93	95			92	93		94		95
Sound pressure level	Cooling	Nom.		dBA	69					70							71	72			70	71		72		71
Refrigerant	Type				R-134a																					
	Charge			kg	52	54	65	66			72		93.6		124.8		156	218	234		140.4	156	171.6	187	203	234
	Circuits	Quantity			2													3			2			3		
Piping connections	Evaporator water inlet/outlet (OD)				139.7								168.3				219.1	273mm			219.1mm			273mm		
Unit	Starting current	Max		A	296	340	361	454	478	583	589	612	642	694	916	929	1,154	1,528	1,616	1,674	1,018	1,038	1,173	1,446	1,453	1,603
	Running current	Cooling	Nom.	A	182	197	203	216	231	267	274	291	395	439	480	537	657	928	1,037	1,100	555	593	700	828	873	974
		Max		A	262	276	297	321	345	371	400	423	519	571	661	719	899	1,273	1,406	1,464	763	828	963	1,122	1,198	1,348
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400																					

performances according to CSS software 10.27

Daikin, world's first company introducing a new generation of air cooled scroll chiller series with refrigerant R-32.

EWAT-B

Multi scroll chiller with R-32 refrigerant

BLUEVOLUTION

R-32

- Top class efficiency, SEER up to 4,84. Overcoming 2021 Eco-design requirements!
- Environmental friendly refrigerant → First in the market
- New R-32 optimized scroll compressors and heat exchangers
- 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 favour
- Wide capacity range: 80 – 700 kW
- Microchannel condensing coil, for reduced refrigerant charge
- Silver and Gold efficiency versions
- 3 sound configurations
- Full compatibility with Daikin on Site
- New Hydronic Kit configurations (single and twin pump, inertial tank, VFD)
- Single and dual circuit version overlapping between 150 kW and 350 kW
  - Single circuit units fits 2 or 3 compressors
  - Dual circuit units fits 4 or 5 or 6 compressors
- Extensive option lists
- Fan speed modulation option (VFD)

Extensive options list

Including new options:

- Partial heat recovery
- Buffer tank
- VFD pumps and variable flow control
- Master/Slave supplied standard
- Fan Silent Mode

Single-V Layout

› Slim layout
› Higher flexibility: new intermediate sound configuration for both Silver and Gold versions

Modular-V Layout:

› Brand new layout
› Better part load efficiency (SEER) vs. previous generation:
  › +4% with standard arrangement
  › +7% with VFD fan option

Free-cooling options

It's the capability of a system/equipment to cool air or water by taking advantage of the favorable outdoor conditions when ambient temperature is reducing, for example during winter or intermediate season or even during night time operation. Free cooling operation allows to reduce the power consumption generated by traditional mechanical cooling (e.g. Compressors).

The use of the outdoor ambient as a source for cooling is the perfect way to answer to the new "EPBD Directive" (Energy Performance of Buildings Directive):

Free-cooling - Light
Refrigerant migration system allowing to recover up to 25% of normal unit capacity.

Free-cooling - Full
Refrigerant migration system allowing to recover up to 25% of normal unit capacity.

Benefits
› Glycol free solution
› No refrigerant pump required
› No extra footprint vs standard unit
› No extra pressure drops on water side

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 GSM modem

DAIKIN ON SITE

Connection to Intelligent Chiller Manager
In case of more complex installations 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:

› High number of units
› Peripheral controls

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

EWAT-B_MultiV_Blue_R

Single V

MicroTech 4

Cooling Only			EWAT-B-SSB/SLB	085	115	135	155	175	195	205	215	240	260	290	310	330	340	350	420	460	510	570	610	670
Space cooling	A Condition 35°C	Pdc	kW	80.92	108.97	131.42	158.15	174.93	191.39	210.53	217.08	241.41	260.58	282.93	306.42	329.59	343.51	350.1	416.28	467.54	513.41	566.53	611.64	667.91
	ηs,c		%	161	173	161		176.2	170.6	173	161	-												
	ηs,c + VFDFAN		%					-				175.4	165.4	177.8	182.6	173.4	183.4	169.4	179.8	182.2	181.8	179.4	180.2	183.8
SEER				4.1	4.4	4.1		4.48	4.34	4.4	4.1	4.37	4.14	4.42	4.52	4.33	4.44	4.24	4.56				4.55	
SEER + VFDFAN								-				4.46	4.21	4.52	4.64	4.41	4.66	4.31	4.57	4.63	4.62	4.56	4.58	4.67
Cooling capacity	Nom.		kW	81	109	131	158	175	191	211	217	241	261	283	306	330	344	350	416	468	513	567	612	668
Power input	Cooling	Nom.	kW	31.8	38.5	49.8	61.9	67.8	69.5	80	85.8	85.2	95.6	108	113	122	117	132	147	171	186	216	230	238
Capacity control	Method											Step												
	Minimum capacity		%	50	38	50	25	38	21	19	50	17	25	24	14	13	33	19	17	15	14	12	11	17
EER				2.55	2.83	2.64	2.55	2.58	2.75	2.63	2.53	2.83	2.73	2.62	2.72	2.71	2.94	2.65	2.84	2.73	2.76	2.63	2.66	2.8
IPLV				4.65	4.92	4.46	4.68	4.78	4.84	4.86	4.7	4.67	4.44	4.74	4.86	4.63	4.8	4.56	4.87	4.84	4.81	4.89	4.9	4.86
EER + VFDFAN								-				2.83	2.73	2.62	2.72	2.7	2.93	2.65	2.83	2.73	2.76	2.62	2.66	2.8
IPLV + VFDFAN								-				4.81	4.27	4.55	5.02	4.75	5	4.7	4.91	4.89	4.9	4.93	4.89	5
Dimensions	Unit	Height	mm		1,801		1,822	1,801		1,822		2,540												
		Width	mm				1,204					2,236												
		Depth	mm	2,120		2,660	3,570	3,180		4,170	3,780		2,326			3,226				4,126			5,025	5,874
Weight (SSB)	Unit		kg	681	767	811	1,007	984	1,166	1,158	1,184	1,712	1,739	1,912	2,186	2,214	2,343	2,242	2,721	2,881	3,037	3,278	3,712	4,073
	Operation weight		kg	686	773	820	1,014	996	1,177	1,169	1,200	1,723	1,750	1,928	2,205	2,233	2,363	2,261	2,749	2,909	3,065	3,320	3,754	4,115
Weight (SLB)	Unit		kg	691	777	821	1,028	994	1,187	1,179	1,194	1,815	1,842	2,004	2,289	2,317	2,434	2,345	2,824	3,066	3,223	3,484	3,918	4,279
	Operation weight		kg	696	783	830	1,035	1,006	1,198	1,190	1,210	1,826	1,853	2,020	2,308	2,336	2,454	2,364	2,852	3,094	3,251	3,526	3,960	4,321
Water heat exchanger	Type											Brazed plate												
	Water volume		l	5	6	9	7	12	11		16	11		16	19		20	19	28			42		
	Water flow rate	Cooling Nom.	l/s	3.9	5.2	6.3	7.6	8.4	9.1	10.1	10.4	11.5	12.4	13.5	14.6	15.7	16.4	16.7	19.9	22.3	24.5	27	29.2	31.9
	Water pressure drop	Cooling Nom.	kPa	27.3	34.4	26.5	64.2	41.7	45.9	54.4	41.4	69.7	80	66.7	46.4	52.9	77.2	59	54.5	67.2	79.6	65.4	75.1	88
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			4	6		8		10			4			5		6	5	7		8		9	11
	Air flow rate	Nom.	l/s	6,022	9,036		13,354	12,023	16,710		15,057	20,306			25,382		30,459	25,382	35,535		40,612		45,688	55,841
	Speed		rpm				1,360					900												
Sound power level (SSB)	Cooling	Nom.	dBA	84.8	88.2	89.7	87.8	91.8	89.9	90.9	93.2	93.3	93.8	94.8	94.9	95.3	96.1	95.6	96.7	97	97.6	97.8	98.3	99
Sound power level (SLB)	Cooling	Nom.	dBA	83.7	86.2	87	86.7	88.8	88.1	88.7	90	90.8		91	91.8	91.9	92.7	91.9	93.3	93.4	93.9	94	94.5	95.3
Sound pressure level (SSB)	Cooling	Nom.	dBA	67.4	70.5	72	69.5	73.8	71.3	72.3	74.8	74.3	74.8	75.8	75.4	75.8	76.6	76.1	76.7	77	77.6	77.9		78.2
Sound pressure level (SLB)	Cooling	Nom.	dBA	66.3	68.5	69.3	68.4	70.7	69.5	70.1	71.6	71.8		72	72.3	72.4	73.2	72.4	73.3	73.4	74		74.1	74.6
Refrigerant	Type/GWP											R-32/675												
	Charge		kg	7.5	8.5		13	11	14.5		13	19			25.5	25	26	24	34.5	36	41	42	46.5	52.5
	Circuits	Quantity			1		2	1	2		1	2		1	2		1	2			2			
Piping connections	Evaporator water inlet/outlet (OD)				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	213	313	324	284	462	384	395	498	410	420	546	573	583	588	594	636	681	719	763	801	843
	Running current	Cooling Nom.	A	59	69	83	108	113	117	131	142	147	160	179	194	206	196	219	238	285	310	358	381	398
		Max	A	73	86	96	143	132	156	167	168	182	193	216	243	254	258	265	307	351	389	433	471	513
Power supply	Phase/Frequency		Hz									3~/50												

BLUEVOLUTION

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

EWAT-B-SS/SL/SR Modular V

Single V

MicroTech 4

Cooling Only				EWAT-B-SRB	085	115	135	155	175	195	205	215	240	260	290	310	330	340	350	420	460	510	570	610	670
Space cooling	A Condition 35°C	Pdc	kW		76.49	105	123.88	150.13	164.87	181.31	200.51	203.5	231.19	248.68	266.45	290.26	311.62	329.53	330.8	398.49	443.51	488.06	534.23	578.74	637.95
	ηs,c		%		161	173	161		166.2	162.2	167.8	161	179.8	164.2	174.2	172.2	173.8	179	165	179	179.8	179.4	179		
SEER					4.1	4.4	4.1		4.23	4.13	4.27	4.1	4.57	4.18	4.43	4.38	4.42	4.55	4.2	4.55	5.57	4.56	4.55		
Cooling capacity	Nom.		kW		76	105	124	150	165	181	201	204	231	249	266	290	312	330	331	398	444	488	534	579	638
Power input	Cooling	Nom.	kW		33.7	40.3	53	65.9	73	73.2	84.6	91.9	89	99.9	115	119	129	122	140	147	181	197	230	244	251
Capacity control	Method				Step																				
	Minimum capacity		%		50	38	50	25	38	21	19	50	17	25	24	14	13	33	19	17	15	14	12	11	17
EER					2.27	2.61	2.34	2.28	2.26	2.48	2.37	2.21	2.6	2.49	2.31	2.44	2.41	2.7	2.35	2.71	2.45	2.48	2.32	2.37	2.55
IPLV					4.67	4.97	4.5	4.63	4.74	4.64	4.91	4.66	4.93	4.27	4.51	4.82	4.7	5	4.72	4.81	4.92	4.93	5.04	5.03	5.01
Dimensions	Unit	Height	mm		1,801			1,822	1,801		1,822		2,540												
		Width	mm		1,204								2,236												
		Depth	mm		2,120	2,660		3,570	3,180	4,170		3,780	2,326			3,226				4,126			5,025	5,874	
Weight	Unit		kg		691	777	821	1,028	994	1,187	1,179	1,194	1,815	1,842	2,004	2,289	2,317	2,434	2,345	2,824	3,066	3,223	3,484	3,918	4,279
	Operation weight		kg		696	783	830	1,035	1,006	1,198	1,190	1,210	1,826	1,853	2,020	2,308	2,336	2,454	2,364	2,852	3,094	3,251	3,526	3,960	4,321
Water heat exchanger	Type				Brazed plate																				
	Water volume		l		5	6	9	7	12	11		16	11		16	19		20	19	28			42		
	Water flow rate	Cooling	Nom.	l/s	3.7	5	5.9	7.2	7.9	8.7	9.6	9.7	11	11.9	12.7	13.9	14.9	15.7	15.8	19	21.2	23.3	25.5	27.6	30.4
	Water pressure drop	Cooling	Nom.	kPa	24.6	32.2	23.8	58.5	37.5	41.6	49.9	36.8	64.5	73.5	59.9	42.1	47.8	71.7	53.2	50.4	61.1	72.7	58.9	68	81
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				4	6		8		10			4			5		6	5	7		8		9	11
	Air flow rate	Nom.		l/s	4,929	7,396		11,352	9,838	14,202		12,325	17,064			21,330		25,596	21,330	29,862		34,128		38,394	46,926
	Speed			rpm	1,200								780												
Sound power level	Cooling	Nom.		dBA	78.6	82.5	84.1	81.6	86.3	83.9	85.2	87.8	87	87.2	87.5	88.2	88.3	89.1	88.4	89.8		90.4	90.5	91	91.8
Sound pressure level	Cooling	Nom.		dBA	61.2	64.7	66.4	63.3	68.3	65.3	66.6	69.4	68.1	68.2	68.5	68.7	68.8	69.6	68.9	69.8	69.9	70.5		70.6	71.1
Refrigerant	Type/GWP				R-32/675																				
	Charge			kg	7.5	8.5		13	11	14.5		13	19			25.5	25	26	24	34.5	36	41	42	46.5	52.5
	Circuits	Quantity			1			2	1	2		1	2		1	2		1		2					
Piping connections	Evaporator water inlet/outlet (OD)				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		213	313	324	284	462	384	395	498	410	420	546	573	583	588	594	636	681	719	763	801	843
	Running current	Cooling	Nom.	A	62	71	87	115	119	123	139	151		165	189	202	216	202	231	245	298	324	378	402	414
		Max		A	73	86	96	143	132	156	167	168	182	193	216	243	254	258	265	307	351	389	433	471	513
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

EWAT-B-XS/XL/XR Modular V

Single V

MicroTech 4

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	-															
	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	4.38	4.47	4.4	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					-			4.62	-	4.48	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					4.83	5	4.82	4.65	4.74	4.67	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 + VFDFAN					-			5.11	-	4.87	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			2,236	1,204	2,236															
		Depth	mm		2,660	3,180	3,780	2,326	3,780	2,326		3,226						4,126			5,025		5,874	6,774	
Weight (XSB)	Unit		kg		737	830	949	1,633	1,066	1,663	1,699	2,082	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	2,098	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			R-32/-	R-32/675	R-32/-															
	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)				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

- 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

EWAT-B-XS/XL/XR Modular V

Single V

MicroTech 4

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		%		213.28	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	5.1	4.76	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			2,236	1,204	2,236															
		Depth	mm		2,660	3,180	3,780	2,326	3,780	2,326		3,226						4,126			5,025		5,874	6,774	
Weight	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	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				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	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)				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 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
- Inverter chiller
- Daikin scroll compressor
- New casing for the outdoor units
- Separate MMI-2 controller for indoor installation

EWYA

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	5.79	5.71	5.59
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 ~60			
Refrigerant	Type/GWP				R-32/675.0			
	Control				Electronic expansion valve			
	Circuits	Quantity			1			
Refrigerant charge	Per circuit			kg	3.80			
	Per circuit			TCO2Eq	2.6			
Unit	Running current	Max		A	30.8			
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/230			

(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)

INVERTER

BLUEVOLUTION

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
- Inverter chiller
- Daikin scroll compressor
- New casing for the outdoor units
- Separate MMI-2 controller for indoor installation

EWYA

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	5.79	5.71	5.59
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 ~60			
Refrigerant	Type/GWP				R-32/675.0			
	Control				Electronic expansion valve			
	Circuits	Quantity			1			
Refrigerant charge	Per circuit			kg	3.80			
	Per circuit			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)

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
- Inverter chiller
- Daikin scroll compressor
- New casing for the outdoor units
- Separate MMI-2 controller for indoor installation

EWYA

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	5.79	5.71	5.59
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 ~60			
Refrigerant	Type/GWP				R-32/675.0			
	Control				Electronic expansion valve			
	Circuits	Quantity			1			
Refrigerant charge	Per circuit			kg	3.80			
	Per circuit			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)

INVERTER

BLUEVOLUTION

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
- Inverter chiller
- Daikin scroll compressor
- New casing for the outdoor units
- Separate MMI-2 controller for indoor installation

EWYA

Heating & Cooling				EWYA-D	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	5.79	5.71	5.59
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 ~60			
Refrigerant	Type/GWP				R-32/675.0			
	Control				Electronic expansion valve			
	Circuits	Quantity			1			
Refrigerant charge	Per circuit			kg	3.80			
	Per circuit			TCO2Eq	2.6			
Unit	Running current	Max		A	30.8			
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/230			

(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)

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 favour
- Wide 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

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

Chiller intelligent Manager

Layouts & Range overview

Parallel coils

Silver Efficiency	75-193 kW 82-213 kW	1 circuits
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:

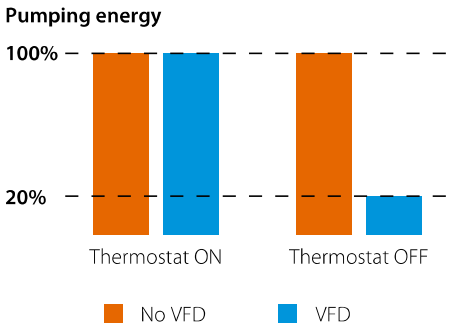
Partial heat recovery
Introduction of condensation control allowing to mantain heat recovery capacity at lower ambient temperatures with unit operating at full capacity

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.



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

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	-							
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	72.1	78.7	86.4	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	2.67	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					2.921	2.911	2.922	2.881	2.892	2.89	2.877	2.945	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								2,514															
		Width		mm	1,195								2,282															
		Depth		mm	2,225	2,825	3,425		4,350	4,025	4,950		3,225		4,125				5,025		3,225		4,125				5,025	
Weight (SS)	Unit			kg	955	1,065	1,165	1,320	1,500		1,800	1,825	2,100	2,250	3,180	3,190	3,180	3,370	4,267		2,100	2,250	3,180	3,190	3,180	3,370	4,267	
	Operation weight			kg	962	1,072	1,172	1,327	1,511		1,811	1,839	2,114	2,270	3,200	3,210	3,207	3,397	4,302	4,308	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	985	1,095	1,195	1,350	1,530		1,830	1,855	2,260	2,410	3,340	3,350	3,340	3,530	4,427		2,260	2,410	3,340	3,190	3,180	3,370	4,267	
	Operation weight			kg	992	1,102	1,202	1,357	1,541		1,841	1,869	2,274	2,430	3,360	3,370	3,367	3,557	4,462	4,468	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	11	19	27		35		43		27.5	42	71				85.5	100	27.5	42	71				85.5	100
	Circuits	Quantity			1				2	1	2																	
Piping connections	Evaporator water inlet/outlet (OD)				88.9																							
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
Unit	Running current	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

- 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-SR MicroTech 4

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	80.91	105.24	131.02	167.11	207.27	209.99	233.05	251.28	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	27.99	36.24	44.84	58.45	71.9	73.28	81.39	86.29	102.09	113.54	132.02	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	2.898	2.953	2.913	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	1,800								2,514							
		Width		mm	1,195								2,282							
		Depth		mm	2,225	2,825	3,425		4,350	4,025	4,950		3,225		4,125				5,025	
Weight	Unit			kg	985	1,095	1,195	1,350	1,530		1,830	1,855	2,260	2,410	3,340	3,350	3,340	3,530	4,427	
	Operation weight			kg	992	1,102	1,202	1,357	1,541		1,841	1,869	2,274	2,430	3,360	3,370	3,367	3,557	4,462	4,468
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	11	19	27		35		43		27.5	42	71				85.5	100
	Circuits	Quantity			1				2	1	2									
Piping connections	Evaporator water inlet/outlet (OD)				88.9															
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
Unit	Running current	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															

Air cooled multi-scroll heat pump, high 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-XS/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					-				
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	1,800								2,514																	
		Width		mm	1,195								2,282																	
		Depth		mm	2,825	3,425		4,025	5,550	4,625	6,150		4,125	5,025		5,925		6,825				4,125		5,025		5,925		6,825		
Weight (XS)	Unit			kg	1,080	1,140	1,220	1,400	2,000	1,600	2,300	2,350	2,830	3,080	3,650	3,750	4,206	4,296	4,760	4,860		2,830	3,080	3,650	3,750	4,206	4,296	4,760	4,860	
	Operation weight			kg	1,091	1,151	1,231	1,416	2,035	1,616	2,335	2,385	2,865	3,115	3,685	3,812	4,268	4,366	4,830	4,930		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	1,110	1,170	1,250	1,430	2,030	1,610	2,330	2,380	3,140	3,240	3,810	3,910	4,366	4,456	4,920	5,020		3,140	3,240	3,650	3,750	4,206	4,296	4,760	4,860	
	Operation weight			kg	1,121	1,181	1,261	1,446	2,065	1,626	2,365	2,415	3,175	3,275	3,845	3,972	4,428	4,526	4,990	5,090		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	29.4	29.8	34.5	50	44	50	55	70		85	100	114.5	129	143.5	158		70		85	100	114.5	129	143.5	158	
	Circuits	Quantity			1				2	1	2																			
Piping connections	Evaporator water inlet/outlet (OD)				88.9																									
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
Unit	Running current	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

Heating & Cooling				EWYT-B-XR	085 -XRA2	115 -XRA2	135 -XRA2	175 -XRA2	215 -XRA2	215 -XRA1	235 -XRA1	265 -XRA1	310 -XRA1	350 -XRA1	400 -XRA1	440 -XRA1	500 -XRA1	560 -XRA1	600 -XRA1	630 -XRA1	650 -XRA1
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	109	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	86.32	99.1	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	3.487	3.479	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	1,800								2,514								
		Width		mm	1,195								2,282								
		Depth		mm	2,825	3,425		4,025	4,625	5,550	6,150		4,125		5,025		5,925		6,825		
Weight	Unit			kg	1,110	1,170	1,250	1,430	1,610	2,030	2,330	2,380	3,140	3,240	3,810	3,910	4,366	4,456	4,920	5,020	
	Operation weight			kg	1,121	1,181	1,261	1,446	1,626	2,065	2,365	2,415	3,175	3,275	3,845	3,972	4,428	4,526	4,990	5,090	
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	29.4	29.8	34.5	44	50		55	70		85	100	114.5	129	143.5	158	
	Circuits	Quantity			1					2											
Piping connections	Evaporator water inlet/outlet (OD)				88.9																
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
Unit	Running current	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 mini inverter heat pump

- Top product in terms of energy efficiency and operation range
- All capacities available in 2 versions: standard version and version with OP10 option (no freeze up of water when not in operation thanks to the water piping heater tape)
- Easy‚plug and play' installation
- Amongst the most quiet units in the market (63dBA - sound power)
- Single phase power supply and low starting currents make the unit ideal for residential applications
- Weight reduced with 20% compared with the previous models.
- Built-in Hydraulic kit: no buffer tank required, standard inverter driven pump, main flow sensor and switch included.
- Standard wired remote control enables setting of different set points (cooling, heating, water leaving temperature) or based on outdoor conditions (weather dependent control). It has an alarm history, night time noise reduction function and is language based.

EWYQ-BVP EKRUMCL1

Heating & Cooling					EWYQ-BVP	004	005	006	008
Cooling capacity	Nom.				kW	4.00 / 4.01	4.93 / 5.07	5.88 / 6.07	7.95 / 8.23
Heating capacity	Nom.				kW	4.11 / 3.96	4.99 / 4.99	6.14 / 6.12	8.08 / 8.44
	Max.				kW	5.1	6.0	-	
Power input	Cooling	Nom.			kW	1.27 / 0.840	1.61 / 1.12	1.87 / 1.13	2.57 / 1.65
	Heating	Nom.			kW	1.19 / 0.860	1.46 / 1.09	1.75 / 1.28	2.31 / 1.84
Capacity control	Method					Variable (inverter)			
EER						3.14 / 4.80	3.06 / 4.51	3.15 / 5.35	3.10 / 4.99
COP						3.44 / 4.61	3.41 / 4.58	3.51 / 4.77	3.49 / 4.59
ESEER						4.45	4.49	5.25	5.24
Space heating	Average climate water outlet 35°C	General	ηs (Seasonal space heating efficiency)		%	155	159	158	165
			SCOP			3.90	4.03		4.21
			Seasonal space heating eff. class			A++			
Dimensions	Unit	HeightxWidthxDepth			mm	735x1,090x350		997x1,160x380	
Weight	Unit				kg	83		106	
Water heat exchanger	Type					Brazed plate			
	Water flow rate	Cooling	Nom.		l/min	11.5 / 11.5	14.1 / 14.5	16.9 / 17.4	22.8 / 23.6
		Heating	Nom.		l/min	11.8 / 11.4	14.3 / 14.3	17.6 / 17.5	23.2 / 24.2
	Water volume				l	1		2	
Air heat exchanger	Type					Cross fin coil/Hi-X tubes and chromate coated waffle louvre fins		Cross fin coil/Hi-X tubes and PE coated waffle louvre fins	
Compressor	Type					Hermetically sealed swing compressor			
	Quantity					1			
Fan	Type					Propeller fan			
	Quantity					1			
	Air flow rate	Cooling	Nom.		m^3/min	53		72	
		Heating	Nom.		m^3/min	47.0		46.6	49.3
Sound power level	Cooling	Nom.			dBA	63.0	64.0	69.0	
	Heating	Nom.			dBA	65.0			
Sound pressure level	Cooling	Nom.			dBA	48.0	49.0	52.0	53.0
	Heating	Nom.			dBA	49.0		47.0	
Operation range	Air side	Cooling	Min.~Max.		°CDB	10~43		10~46	
		Heating	Min.~Max.		°CDB	-20~25		-15~25	
	Water side	Cooling	Min.~Max.		°CDB	5~22			
		Heating	Min.~Max.		°CDB	15 ~55			
Refrigerant	Type/GWP					R-410A/2,088		R-410A/2,087.5	
	Control					Electronic expansion valve			
	Circuits	Quantity				1			
Refrigerant charge	Per circuit				kg	2.10		2.70	
	Per circuit				TCO2Eq	4.4		5.6	
Water circuit	Piping connections diameter				inch	1" MBSP			
Unit	Starting current	Max			A	15.7		19.9	
	Running current	Max			A	15.7		19.9	
Power supply	Phase/Frequency/Voltage				Hz/V	1N~/50/230			

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

EWYQ-CWN BRC21A52

Heating & Cooling				EWYQ-CWN	016	021	025	032	040	050	064
Space heating	Average climate water outlet 35°C	General	ηs (Seasonal space heating efficiency)	%	147	148	138	135	149	139	135
			SCOP		3.75	3.78	3.53	3.45	3.80	3.55	3.45
			Seasonal space heating eff. class		A+	A++			A+		
Cooling capacity	Nom.			kW	16.8	21.0	25.3	31.6	42.1	50.5	63.2
Heating capacity	Nom.			kW	16.8	21.0	25.1	31.4	41.9	50.3	62.9
Power input	Cooling	Nom.		kW	5.93	7.61	9.60	12.9	15.1	19.2	25.7
	Heating	Nom.		kW	5.60	6.89	8.74	10.8	13.7	17.5	21.6
Capacity control	Method				Inverter controlled						
	Minimum capacity			%	25						
EER					2.84	2.77	2.63	2.45	2.79	2.63	2.46
ESEER					4.37	4.26	4.17	3.87	4.28	4.18	3.87
COP					3.00	3.05	2.87	2.91	3.06	2.87	2.91
Dimensions	Unit	Height		mm	1,684						
		Width		mm	1,370			1,680	2,360		2,980
		Depth		mm	774				780		
Weight	Unit			kg	268	321		403	579		741
Water heat exchanger	Type				Brazed plate						
	Water volume			l	3			5	6		9
	Water pressure drop	Cooling	Total	kPa	8	10	14	8	10	14	8
Air heat exchanger	Type				Air cooled coil						
Compressor	Type				Hermetically sealed scroll compressor						
	Quantity				1	2		3	4		6
Fan	Type				Axial						
	Quantity				1			2			4
	Air flow rate	Cooling	Nom.	m^3/min	171	185		233	370		466
		Heating	Nom.	m^3/min	171	185		233	370		466
Sound power level	Cooling	Nom.		dBA	78.0			80.0	81.0		83.0
Operation range	Air side	Cooling	Min.~Max.	°CDB	-5~43						
		Heating	Min.~Max.	°CDB	-15~35						
	Water side	Cooling	Min.~Max.	°CDB	-10~20						
		Heating	Min.~Max.	°CDB	25~50						
Refrigerant	Type/GWP				R-410A/2,087.5						
	Control				Electronic expansion valve						
	Circuits	Quantity			1				2		
Refrigerant charge	Per circuit			kg	7.60			9.60	7.60		9.60
	Per circuit			TCO2Eq	15.9			20.0	15.9		20.0
Water circuit	Piping connections diameter			inch	1-1/4" (female)				2" (female)		
	Piping			inch	1-1/4"				1-1/2"		
Unit	Starting current	Max		A	0.0	77.7	78.7	88.7	99.8	101.9	120.7
	Running current	Max		A	22.2	25.3	26.4	35.2	47.4	49.6	67.2
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/400						

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
- EWYQ-CWP: Version with standard pump
- EWYQ-CWH: Version with optional high static pump

EWYQ-CWP/CWH

BRC21A52

Heating & Cooling				EWYQ	016CWP	021CWP	025CWP	032CWP	040CWP	050CWP	064CWP	016CWH	021CWH	025CWH	032CWH	040CWH	050CWH	064CWH
Space heating	Average climate water outlet 35°C	General	ηs (Seasonal space heating efficiency)	%	144	154	139	138	149	139	138		150	135	136	144	133	135
			SCOP		3.68	3.93	3.55	3.53	3.80	3.55	3.53		3.83	3.45	3.48	3.68	3.40	3.45
			Seasonal space heating eff. class		A+	A++	A+						A++	A+				
Cooling capacity	Nom.			kW	17.0	21.2	25.5	31.8	42.3	50.7	63.3	17.0	21.2	25.5	31.8	42.3	50.7	63.3
Heating capacity	Nom.			kW	16.6	20.8	24.9	31.2	41.7	50.1	62.7	16.6	20.8	24.9	31.2	41.7	50.1	62.7
Power input	Cooling	Nom.		kW	5.81	7.47	9.45	12.7	15.1	19.0	25.5	5.81	7.47	9.45	12.7	15.1	19.0	25.5
	Heating	Nom.		kW	5.49	6.76	8.58	10.6	13.7	17.4	21.4	5.49	6.76	8.58	10.6	13.7	17.4	21.4
Capacity control	Method				Inverter controlled													
	Minimum capacity			%	25													
EER					2.93	2.84	2.70	2.50	2.80	2.67	2.48	2.93	2.84	2.70	2.50	2.80	2.67	2.48
ESEER					4.85	4.70	4.57	4.10	4.40	4.36	4.05	4.69	4.58	4.47	4.06	4.27	4.26	3.98
COP					3.02	3.07	2.91	2.93	3.03	2.88	2.93	3.02	3.07	2.91	2.93	3.03	2.88	2.93
Dimensions	Unit	Height		mm	1,684													
		Width		mm	1,370			1,680	2,360		2,980	1,370			1,680	2,360		2,980
		Depth		mm	774				780			774				780		
Weight	Unit			kg	280	332		414	604		765	283	336		417	612		774
Water heat exchanger	Type				Brazed plate													
	Water volume			l	3			5	6		9	3			5	6		9
	Water pressure drop	Cooling	Total	kPa	8	10	14	8	10	14	8		10	14	8	10	14	8
Air heat exchanger	Type				Air cooled coil													
Compressor	Type				Hermetically sealed scroll compressor													
	Quantity				1	2		3	4		6	1	2		3	4		6
Fan	Type				Axial													
	Quantity				1			2			4	1			2			4
	Air flow rate	Cooling	Nom.	m^3/min	171	185		233	370		466	171	185		233	370		466
		Heating	Nom.	m^3/min	171	185		233	370		466	171	185		233	370		466
Sound power level	Cooling	Nom.		dBA	78.0			80.0	81.0		83.0	78.0			80.0	81.0		83.0
Operation range	Air side	Cooling	Min.~Max.	°CDB	-5~43													
		Heating	Min.~Max.	°CDB	-15~35													
	Water side	Cooling	Min.~Max.	°CDB	-10~20													
		Heating	Min.~Max.	°CDB	25~50													
Refrigerant	Type/GWP				R-410A/2,087.5													
	Control				Electronic expansion valve													
	Circuits	Quantity			1				2			1				2		
Refrigerant charge	Per circuit			kg	7.60			9.60	7.60		9.60	7.60			9.60	7.60		9.60
	Per circuit			TCO2Eq	15.9			20.0	15.9		20.0	15.9			20.0	15.9		20.0
Water circuit	Piping connections diameter			inch	1-1/4" (female)				2" (female)			1-1/4" (female)				2" (female)		
	Piping			inch	1-1/4"				1-1/2"			1-1/4"				1-1/2"		
Unit	Starting current	Max		A	0.0	77.7	78.7	88.7	99.8	101.9	120.7	0.0	79.9	81.7	91.7	103.7	106.3	125.1
	Running current	Max		A	22.2	25.3	26.4	35.2	47.4	49.6	67.2	24.4	27.5	29.4	38.2	51.3	54.0	71.6
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/400													

Air cooled scroll inverter heat pump, split version

- Hydronic module for indoor installation eliminating the need for glycol
- Ideal for colder climates as the lack of glycol will allow for high efficiencies
- Compact dimensions and limited pipework allow for installation in very restricted spaces
- Easy transportation as separate units will fit in an elevator

SEHVX-BW SERHQ-BW1 BRC21A53/54 (Optional)

Heating & Cooling					SEHVX20BAW/ SERHQ020BAW1	SEHVX32BAW/ SERHQ032BAW1	SEHVX40BAW/ SERHQ020BAW1+SERHQ020BAW1	SEHVX64BAW/ SERHQ032BAW1+SERHQ032BAW1
Cooling capacity	Nom.			kW	21.2 (1)	31.8 (1)	42.3 (1)	63.3 (1)
Heating capacity	Nom.			kW	20.8 (2)	31.2 (2)	41.7 (2)	62.7 (2)
Power input	Cooling	Nom.		kW	7.47 (1)	12.7 (1)	15.1 (1)	25.5 (1)
	Heating	Nom.		kW	6.76 (2)	10.6 (2)	13.7 (2)	21.4 (2)
EER					2.84	2.5	2.8	2.48
COP					3.07	2.93	3.03	2.93
Space heating	Average climate water outlet 35°C	General	SCOP		3.93	3.53	3.80	3.53
			ηs (Seasonal space heating efficiency)	%	154	138	149	138
			Seasonal space heating eff. class		A++	A+		

Unit for indoor installation					SEHVX20BAW	SEHVX32BAW	SEHVX40BAW	SEHVX64BAW
Dimensions	Unit	Height		mm	1,573			
		Width		mm	766			
		Depth		mm	396			
Weight	Unit			kg	97.0	105	137	153
	Packed unit			kg	109	117	149	165
Water side Heat exchanger	Type				Brazed plate			
	Water volume			l	3	5	6	9
	Water flow rate	Cooling	Nom.	l/min	60 (3)	90 (3)	120 (3)	181 (3)
		Heating	Nom.	l/min	60 (2)	90 (2)	120 (2)	181 (2)
Sound power level	Nom.			dBA	63.0		66.0	
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-5~43			
		Water side	Min.~Max.	°CDB	5 (4)~20			
	Heating	Ambient	Min.~Max.	°CDB	-15~35			
		Water side	Min.~Max.	°CDB	25~50			
Refrigerant	Type / GWP				R-410A / 2,087.5			
	Circuits	Quantity			1		2	
	Control				Electronic expansion valve			
Water circuit	Piping connections diameter			inch	1-1/4" (female)		2" (female)	
	Piping			inch	1-1/4"		1-1/2"	
	Water pressure drop	Cooling	Nom.	kPa	17 (7)	24 (7)	19 (7)	29 (7)
	Total water volume			l	4.2 (8)	5.8 (8)	7.9 (8)	11.0 (8)
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/400			

Outdoor Unit					SERHQ020BAW1	SERHQ032BAW1
Dimensions	Unit	Height		mm	1,680	
		Width		mm	765	
		Depth		mm	930	1,240
Weight	Unit			kg	240	316
	Packed unit			kg	273	356
Compressor	Quantity				2	3
	Type				Hermetically sealed scroll compressor	
Fan	Type				Axial	
	Quantity				1	2
	Air flow rate	Cooling	Nom.	m^3/min	185	233
		Heating	Nom.	m^3/min	185	233

(1) Cooling: entering evaporator water temp. 12°C; leaving evaporator water temp. 7°C; ambient air temp. 35°C (2) Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) (3) Condition: Ta 35°C - LWE 7°C (DT = 5°C) (4) Water can be used above 5°C. Between 0°C and 5°C a 30% glycol solution (propylene or ethylene) has to be used. Between 0°C and -10°C a 40% glycol solution (propylene or ethylene) has to be used (see installation manual and information related to OPZL option) (5) Excluding water volume in the unit. In most applications this minimum water volume will have a satisfying result. In critical processes or in rooms with a high heat load though, extra water volume might be required. Refer to operation range for more info. (6) Excluding the water volume in the unit. This volume will guarantee suficient defrost energy for all applications, however, this volume can be multiplied by 0,66 if the heating sepoint is ≥ 45° C (eg. Fan coils) (7) This is PD between inlet & outlet connections of unit. It includes the water side heat exchanger pressure drop. (8) Including piping + PHE; excluding expansion vessel

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 MicroTech 4

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		-						
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		
		Depth		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		

INVERTER

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- 2-3 truly independent refrigerant circuits
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- 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-BZSL MicroTech 4

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					-			
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		
		Depth			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		

EWYD-4Z
Air to water
Multipurpose unit

4-pipe system solution with full inverter technology
For independent and simultaneous cooling and heating all year round

1

Top class efficiency

Total Energy Ratio up to 8.8

Full inverter technology: the best choice for every application

Daikin single screw compressor with integrated inverter and Variable Volume Ratio Technology

The inverter integrated in the compressor is refrigerant cooled:

› Safe and robust cooling system, totally independent from outdoor ambient conditions and air quality.
› Suitable even for aggressive installation such as industrial or desert application.

The volume ratio will change by moving the sliding valves. **VVR** changes the point at which the gas leaves the compressor, and therefore changes the pressures at discharge which will be optimal at any condition.

2

Easy part load calculation via the tool CSS WEB

Upon defining the design condition in the unit selection page it is possible to calculate the unit performances in every in-between condition with a different load

3

Best solution for simultaneous cooling and heating

Big multipurpose buildings, hotels, hospital are just a few examples of application for multipurpose units

Check on YouTube
www.youtube.com/DaikinEurope

› Daikin EWYD-4Z Multipurpose Unit

› Daikin EWYD-4Z Multipurpose Unit – Behind the scenes

Air to Water Multipurpose unit

- Best solution for independent and simultaneous cooling and heating all year round
- Daikin single screw compressor with integrated inverter and Variable Volume Ratio Technology
- High Efficiency Inverter fans with optimized geometry ensures the best ratio between airflow and power input.
- Wide operating envelope for cooling and heating with extra capacity in Boosted operation and Rapid Restart functionality

EWYD-4ZXSB2

MicroTech 4

Multipurpose		EWYD-4ZXSB2		400	450	500	550	600	650	700	800
Air to water – cooling only (1)		Nominal Rated Capacity – Net	kW	402.4	438.4	502.8	523.4	602.4	653.7	702.9	785.7
		EER – Net		3.17	3.15	3.25	3.08	3.25	3.19	3.37	3.29
Air to water – heating only (2)		Nom. Rated Capacity – Net	kW	402.7	439.7	503.5	545.2	600.9	654.7	702.4	803.0
		COP – Net		3.33	3.41	3.45	3.44	3.45	3.38	3.55	3.54
Water to water – Cooling + heating (3)		Nom. Rated Capacity COOLNG – Net	kW	313.2	355.7	393.9	430.4	474.8	511.4	549	629.8
		Nom. Rated Capacity HEATING – Net	kW	402.4	454.6	503.4	549.4	603.4	652.9	703.7	803.4
		TER – Net		8.03	8.19	8.2	8.24	8.38	8.23	8.10	8.26
Dimensions		Height	mm	2465							
		Width	mm	2285							
		Length	mm	5825		6725		7625	8525		
Weight		Unit Weight	kg	6075	6095	6870	6870	7850	8435	9405	9430
		Operating Weight	kg	6540	6560	7560	7560	8935	9540	10785	10820
		Cold/Hot side water connections	mm	219.1							
Sound level		Sound Power – Cooling (4)	dB(A)	99	98	99		100		102	
		Sound Pressure – Cooling at 1 m (5)	dB(A)	78	77		78		79	80	
Water heat exchangers	Cold Side	Water Volume	l	126	126	214	214	369	361	468	468
		Water flow rate (1)	l/s	19.3	21.0	24.1	25.1	28.8	31.3	33.6	37.6
		Water pressure drop (1)	kPa	42.0	50.8	40.1	47.8	48.0	34.2	40.7	37.1
	Hot Side	Water Volume	l	126	126	214	214	369	361	468	468
		Water flow rate (2)	l/s	9.1	9.1	13.4	13.4	14.6	19.5	20.8	26.1
		Water pressure drop (2)	kPa	19.4	21.146	24.3	26.334	29	31.6	33.9	38.7
Fan		Quantity	n	10		12		14	16		
		Nominal air flow (1)	l/s	56550		67860		79170	90480		
Compressor		Type		Single screw							
		Oil charge	l	28						38	
		Quantity	n.	2							
Refrigerant circuit		Refrigerant type		R134a							
		Refrigerant charge	kg	170	190	200		235	260	270	290
		Circuits	n.	2							
Power Supply		Phase/Frequency/Voltage	Hz/V	3~/50/400							

Fluid: Water; Fouling factor = 0
(1) Operation in Air to water "Cooling only" mode rated at 35°C ambient temperature, 50% R.H.; Entering water temperature 12°C, Outlet water temperature 7°C.
(2) Operation in Air to water "Heating only" mode rated at 7°C ambient temperature, 85% R.H; Entering water temperature 40°C, Outlet water temperature 45°C.
(3) Operation in Water to water "Cooling + Heating" mode rated with water flowing on cold and hot heat exchangers determined respectively at conditions (1) and (2) - Chilled water outlet temperature 7°C, Hot water outlet temperature 45°C.
(4) Sound power level are referred to condition (1) for Cooling and (2) for Heating. The data are measured in accordance with ISO 9614 and Eurovent 8/1 for Eurovent certified units. The certification refers only to the overall sound power level.
(5) Sound pressure is calculated from the sound power level and it is for information only and not considered binding.
All the above data are referred to standard units without options and are subject to change without notice.

Air to Water Multipurpose unit

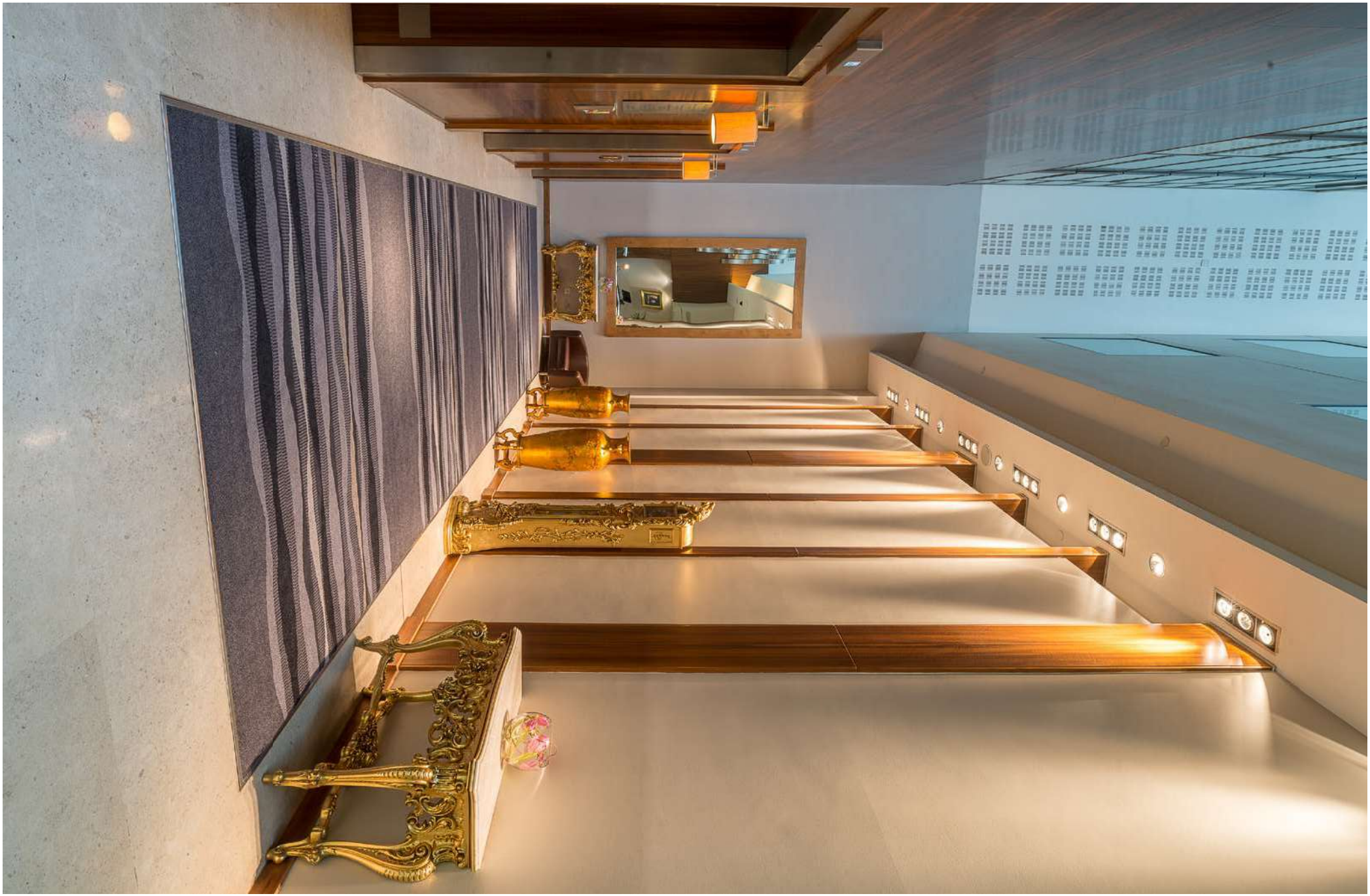
- Best solution for independent and simultaneous cooling and heating all year round
- Daikin single screw compressor with integrated inverter and Variable Volume Ratio Technology
- High Efficiency Inverter fans with optimized geometry ensures the best ratio between airflow and power input.
- Wide operating envelope for cooling and heating with extra capacity in Boosted operation and Rapid Restart functionality

EWYD-4ZXL/XRB2

MicroTech 4

Multipurpose		EWYD-4ZXRB2		400	450	500	550	600	650	700	800
Air to water – cooling only (1)		Nominal Rated Capacity – Net	kW	357.9	400.4	451.9	496.2	548.0	596.5	619.1	690.0
		EER – Net		3.05	3.06	3.12	3.06	3.11	3.07	3.19	3.08
Air to water – heating only (2)		Nom. Rated Capacity – Net	kW	358.3	398.7	452.2	493.4	550.7	601	620.9	690.8
		COP – Net		3.48	3.65	3.65	3.63	3.59	3.55	3.67	3.71
Water to water – Cooling + heating (3)		Nom. Rated Capacity COOLNG – Net	kW	279.6	312.7	354.7	387.6	435.2	473.1	486.1	543.8
		Nom. Rated Capacity HEATING – Net	kW	359.2	399.5	452.8	493.5	550.5	602.1	623.4	693.3
		TER – Net		8.03	8.20	8.23	8.32	8.55	8.33	8.08	8.27
Dimensions		Height	mm	2465							
		Width	mm	2285							
		Length	mm	5825		6725		7625	8525		
Weight		Unit Weight	kg	6240	6260	7035	7035	8015	8600	9690	9715
		Operating Weight	kg	6705	6725	7725	7725	9100	9705	11075	11110
		Cold/Hot side water connections	mm	219.1							
Sound level		Sound Power – Cooling (4)	dB(A)	87	86	87		88		90	
		Sound Pressure – Cooling at 1 m (5)	dB(A)	66						68	69
Water heat exchangers	Cold Side	Water Volume	l	126		214		369	361	468	
		Water flow rate (1)	l/s	17.1	19.2	21.6	23.7	26.2	28.5	29.6	33.0
		Water pressure drop (1)	kPa	31.8	37.1	31.7	38.7	39	27	33.7	28.1
	Hot Side	Water Volume	l	126	126	214	214	369	361	468	468
		Water flow rate (2)	l/s	17.3	19.2	21.8	23.8	26.6	29.0	30.0	33.3
		Water pressure drop (2)	kPa	31.8	38.5	27.7	33.6	32	23.8	28.5	24.4
Fan		Quantity	n	10		12		14		16	
		Nominal air flow (1)	l/s	36110		43332		50554		57776	
Compressor		Type		Single screw							
		Oil charge	l	28						38	
		Quantity	n.	2							
Refrigerant circuit		Refrigerant type		R134a							
		Refrigerant charge	kg	170	190	200		235	260	270	290
		Circuits	n.	2							
Power Supply		Phase/Frequency/Voltage	Hz/V	3~/50/400							

Fluid: Water; Fouling factor = 0
(1) Operation in Air to water "Cooling only" mode rated at 35°C ambient temperature, 50% R.H.; Entering water temperature 12°C, Outlet water temperature 7°C.
(2) Operation in Air to water "Heating only" mode rated at 7°C ambient temperature, 85% R.H; Entering water temperature 40°C, Outlet water temperature 45°C.
(3) Operation in Water to water "Cooling + Heating" mode rated with water flowing on cold and hot heat exchangers determined respectively at conditions (1) and (2) - Chilled water outlet temperature 7°C, Hot water outlet temperature 45°C.
(4) Sound power level are referred to condition (1) for Cooling and (2) for Heating. The data are measured in accordance with ISO 9614 and Eurovent 8/1 for Eurovent certified units. The certification refers only to the overall sound power level.
(5) Sound pressure is calculated from the sound power level and it is for information only and not considered binding.
All the above data are referred to standard units without options and are subject to change without notice.



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

MicroTech 4

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			
		Depth		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-SS/SL

MicroTech 4

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			
		Depth		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 cooled scroll heat pump

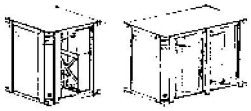
- One of the most compact units on the market: 600mm x 600mm x 600mm
- Low energy consumption
- Low operating sound level
- Low refrigerant volume
- Stainless steel plate heat exchanger
- Extension possible to 183kW
- Easy installation and maintenance
- Remote cooling or heating selection
- Water/water heat pump, with water reversibility
- Standard integrated: water filter, flow switch, air purge, pressure ports
- Advanced µC²SE controller for direct connection to a Modbus based BMS or to a remote user interface

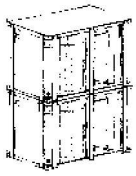
EWWQ-KBW1N µC2SE

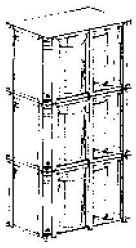
Cooling only/Heating only				EWWQ-KBW1N	014	025	033	049	064	098	113	128	147	162	177	192
Space heating	Average climate water outlet 35°C	General	ηs (Seasonal space heating efficiency)	%	171	177	186	180	189				-			
			Seasonal space heating eff. class				A+++						-			
Cooling capacity	Nom.			kW	13.25	23.9	30.4	47.15	60.98	94	108	122	142	155	169	183
Power input	Cooling	Nom.		kW	3.15	5.72	7.3	11.42	14.58	22.7	25.8	28.9	33.9	37	40.1	43.2
Capacity control	Method						Fixed						-			
	Minimum capacity			%		100		50			25			16		
EER					4.209	4.177	4.164	4.127	4.182	4.17	4.19	4.22	4.18	4.2	4.22	4.24
ESEER					4.52	4.58	4.72	4.56	4.71	4.65	4.64	4.66	4.7	4.69	4.70	4.71
IPLV					5.13	5.27	5.41	5.36	5.47	5.36	5.42	5.47	5.36	5.4	5.44	5.47
Dimensions	Unit	Height		mm			600				1,200			1,800		
		Width		mm							600					
		Depth		mm		600						1,200				
Weight	Unit			kg	120	170	175	310	340	620	650	680	930	960	990	1,020
	Operation weight			kg	123	175	182	320	353	640	673	707	960	993	1,026	1,060
Water heat exchanger - evaporator	Type										Brazed plate					
	Water volume			l	1.23	1.93	2.68	4.5	5.93	9	10	12	14	15	16	18
	Water flow rate	Nom.		l/s	0.64	1.15	1.46	2.26	2.92	4.5	5.2	5.8	6.8	7.4	8.1	8.8
	Water pressure drop	Cooling	Nom.	kPa	19.6	28.5	25.7	24.3	25.3	24.3	25.2		24.3	25.2		
Water heat exchanger - condenser	Type										Brazed plate					
	Water volume			l	1.83	2.93	4.03	5.45	7.35	10.9	12.8	14.69	16.35	18.25	20.15	22.04
	Water flow rate	Nom.		l/s	0.78	1.41	1.83	2.78	3.61	5.57	6.39	7.21	8.35	9.17	10	10.8
	Water pressure drop	Cooling	Nom.	kPa	13.2	18.3	18.5	26.9	28.5	26.9	28.5		26.9	28.5		
Compressor	Type										Scroll compressor					
	Quantity					1		2			4			6		
Sound power level	Cooling	Nom.		dBA		64.0	71.0	67.0	74.0	71.0	75.0	77.0	73.0	77.0	78.0	79.0
Sound pressure level	Cooling	Nom.		dBA		50.0	57.0	53.0	60.0	55.70	59.70	61.70	56.9	60.9	61.9	62.9
Operation range	Evaporator	Cooling	Min.~Max.	°CDB							-10~20					
	Condenser	Cooling	Min.~Max.	°CDB							20~55					
Refrigerant	Type										R-410A					
	Charge			kg	1.2	2	3.1	4.6	5.6	9.4	10.2	11.2	13.8	14.8	15.8	16.8
	Circuits	Quantity				1		2			4			6		
Piping connections	Evaporator water inlet/outlet (OD)					G1"		G1" 1/2			2 x 2x G1" 1/2			3 x 3x G1" 1/2		
	Condenser water inlet/outlet (OD)					G1"		G1" 1/2			2 x 2x G1" 1/2			3 x 3x G1" 1/2		
Unit	Starting current	Max		A	61.8	101.9	137.9	117.55	158.63	148.86	189.93	200.09	180.16	221.24	231.39	241.54
	Running current	Cooling	Nom.	A	5.99	9.29	12.98	18.69	26.08	37.37	44.75	52.12	56.06	63.44	70.81	78.18
		Max		A	9.47	15.65	20.73	31.31	41.46	62.61	72.76	82.91	93.92	104.07	114.22	124.37
Power supply	Phase/Frequency/Voltage			Hz/V							3~/50/400					

Water cooled scroll chiller

Combination table







		Single Module					2 x Modules			3 x Modules			
Unit Index		**014**	**025**	**033**	**049**	**064**	**098**	**113**	**128**	**147**	**162**	**177**	**192**
Capacity (kW)		**13**	**24**	**31**	**49**	**64**	**98**	**113**	**128**	**147**	**162**	**177**	**192**
Unit + control factory mounted	EWWQ014KBW1N	1	-	-	-	-	-	-	-	-	-	-	-
	EWWQ025KBW1N	-	1	-	-	-	-	-	-	-	-	-	-
	EWWQ033KBW1N	-	-	1	-	-	-	-	-	-	-	-	-
	EWWQ049KBW1N	-	-	-	1	-	-	-	-	-	-	-	-
	EWWQ064kBW1N	-	-	-	-	1	-	-	-	-	-	-	-
Modular unit (controller available as accessory)	EWWQ049KAW1M	-	-	-	-	-	2	1	-	3	2	1	-
	EWWQ064KAW1M	-	-	-	-	-	-	1	2	-	1	2	3
Controller for modular unit	ECB2MUAW	-	-	-	-	-	1	1	1	-	-	-	-
	ECB3MUAW	-	-	-	-	-	-	-	-	1	1	1	1

Note 1: the above combination table is also valid for standard models with OPZL or OPZH.

Note 2: condenserless versions are only available as single modules only.

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

EWHQ-G-SS

MicroTech 4

Heating & Cooling					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	HeightxWidthxDepth		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

EWWQ-G-SS

MicroTech 4

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										
		Depth			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

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						
		Depth		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 cooled 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

EWWD-J-SS

Microtech 4

Cooling & Heating				EWWD-J-SS	120	140	150	180	210	250	280	310	330	360	380	400	450	500	530	560
Space heating	Average climate water outlet 35°C	General	SCOP		4.40	4.34	4.14	4.15	4.24	4.46	4.21	4.04	-							
Cooling capacity	Nom.			kW	120	146	154	177	207	255	284	309	333	356	385	415	463	512	540	568
Heating capacity	Nom.			kW	148	180	194	223	258	315	354	388	417	446	486	515	573	631	669	709
Power input	Cooling	Nom.		kW	28.0	34.0	39.5	45.3	50.4	59.9	70.0	78.8	84.6	90.3	101		110	120	130	140
	Heating	Nom.		kW	28.0	34.0	39.5	45.3	50.4	59.9	70.0	78.8	84.6	90.3	101		110	120	130	140
Capacity control	Method				Stepless															
	Minimum capacity			%	25.0							12.5								
EER					4.28	4.29	3.90	3.91	4.11	4.26	4.06	3.92	3.94		3.82	4.12	4.20	4.28	4.16	4.05
ESEER					4.51	4.20		4.28	4.68	4.01	4.32	4.35	4.50	4.31	4.65	4.74	4.83	4.73	4.33	
COP					5.28	5.29	4.90	4.91	5.11	5.26	5.06	4.92	4.94		4.82	5.12	5.20	5.28	5.16	5.05
IPLV					5.18	5.06		5.05	5.16	5.70	4.88	5.06	5.13	5.29	5.03	5.48	5.59	5.71	5.55	5.09
Dimensions	Unit	Height		mm	1,020							2,000								
		Width		mm	913															
		Depth		mm	2,684															
Weight	Unit			kg	1,177	1,233	1,334	1,366	1,416	1,600	1,607	2,668	2,700	2,732	2,782	2,832	3,016	3,200	3,207	3,215
	Operation weight			kg	1,211	1,276	1,378	1,415	1,473	1,663	1,675	2,755	2,792	2,830	2,888	2,946	3,136	3,327	3,338	3,350
Water heat exchanger - evaporator	Type				Plate heat exchanger															
	Water volume			l	14	18	14	17	20	26		29	31	33	37	41	46	52		
	Water flow rate	Nom.		l/s	5.7	7.0	7.4	8.5	9.9	12.2	13.6	14.8	15.9	17.0	18.4	19.8	22.1	24.5	25.8	27.2
	Water pressure drop	Cooling	Nom.	kPa	15	14	43	40	35	28	34	43	40		37	35	31	28	31	34
		Heating	Nom.	kPa	15	14	43	40	35	28	34	43	40		37	35	31	28	31	34
Water heat exchanger - condenser	Type				Single pass shell and tube															
	Water volume			l	20		23	25	29		32	45	48	51	54	57		61	64	
	Water flow rate	Nom.		l/s	7.1	8.6	9.3	10.7	12.4	15.2	17.0	9.3		10.7	11.0	12.4		15.2	15.3	17.0
	Water pressure drop	Cooling	Nom.	kPa	19	12		11	16	26	12				11		16		26	
		Heating	Nom.	kPa	19	12		11	16	26	12				11	16		26		
Compressor	Type				Single screw compressor															
	Quantity				1							2								
Sound power level	Cooling	Nom.		dBA	89							94								
Sound pressure level	Cooling	Nom.		dBA	79							82								
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							2								
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		33.0/47.2	33.5/47.9	34.0/48.6	35.0/50.1	36.0/51.5	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	151		195			288		281	293		310		403	422	440	
	Running current	Cooling	Nom.	A	48	57	67	74	83	97	109	134	141	149	157	165	180	195	206	218
		Max		A	76	97	107	122	143	167	189	215	230	245	265	286	311	335	357	378
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400															

Water cooled screw chillers condenserless

- 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

Microtech 4

					EWWH	090J-SS000	110J-SS000	120J-SS000	130J-SS000	150J-SS000	180J-SS000	200J-SS000
Space heating	Average climate water outlet 35°C	General	SCOP			3.94	3.89	3.75		3.77	3.89	3.8
Cooling capacity	Nom.			kW		89	107	115	133	150	182	201
Heating capacity	Nom.			kW		105.6	128.9	138.5	160	180.7	218.2	243.3
Power input	Cooling	Nom.		kW		20.9	25.3	28.5	33.2	37.3	44.3	50.2
	Heating	Nom.		kW		21	25.5	28.8	33.5	37.6	44.8	50.7
Capacity control	Method					Stepless						
	Minimum capacity			%		25						
EER						4.24	4.23	4.04	4.03		4.1	4
COP						5.03	5.07	4.81	4.78	4.81	4.88	4.8
IPLV						4.42	4.48	4.3	4.32	4.3	4.98	4.88
Dimensions	Unit	Height		mm		1,020						
		Width		mm		913						
		Depth		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	16,635	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		4.2	5.1	5.5	6.4	7.2	8.7	9.6
		Heating	Nom.	l/s		6.86	8.29	8.89	10.3	11.6	14	15.5
	Water pressure drop	Cooling	Nom.	kPa		10.6	10.8	19.2	19.3	17.8	16.7	20
		Heating	Nom.	kPa		25.5	26	45.9	46.2	42.4	40	48
Water heat exchanger - condenser	Type					Shell and tube						
	Water volume			l		20	20.1	22.7	25.3	28.65		32
	Water flow rate	Cooling	Nom.	l/s		5.17	6.32	6.79	7.84	8.86	10.6	11.9
		Heating	Nom.	l/s		5.06	6.17	6.63	7.66	8.65	10.5	11.6
	Water pressure drop	Cooling	Nom.	kPa		9.1	9.78	8.68	9.06	8.86	12.3	12.1
		Heating	Nom.	kPa		8.72	9.36	8.34	8.66	8.48	11.9	11.7
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)						
	Charge			kg		18	35	34	37		38	
	Circuits	Quantity				1						
Piping connections				mm		76.2						
	Condenser water inlet/outlet			inch		2.0	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						

Water cooled screw chillers condenserless

- 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

EWWH-J_EWWS-J

Microtech 4

					EWWS	120J-SS000	140J-SS000	150J-SS000	180J-SS000	210J-SS000	240J-SS000	270J-SS000
SEER						3.41	3.42	3.37	3.46	3.47	3.91	3.88
Space heating	Average climate water outlet 35°C	General	SCOP			3.61	3.51	3.49	3.54	3.58	3.5	3.49
Cooling capacity	Nom.			kW		115	136	154	181	207	241	272
Heating capacity	Nom.			kW		140.4	171.3	192.1	220.6	247.6	303.2	338
Power input	Cooling	Nom.		kW		29.9	36.3	41.6	47.8	54.2	65.7	74.4
	Heating	Nom.		kW		30.2	36.6	42.2	48.4	54.9	66.4	75.4
Capacity control	Method								Stepless			
	Minimum capacity			%					25			
EER						3.84	3.75	3.71	3.78	3.82	3.67	3.66
COP						4.64	4.68	4.55	4.56	4.51	4.56	4.48
IPLV						4.14	4.17	4.13	4.14	4.16	4.66	4.61
Dimensions	Unit	Height		mm					1,020			
		Width		mm					913			
		Depth		mm					2,684			
Weight	Unit			kg		1,176.84	1,232.68	1,334.04	1,365.84	1,415.8	1,599.76	1,607.26
	Operation weight			kg		1,211.12	1,275.74	1,377.54	1,414.84	1,472.8	1,663.26	1,674.76
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	7.4	8.6	9.9	11.5	13
		Heating	Nom.	l/s		8.92	10.6	12	14	16.1	18.7	21.1
	Water pressure drop	Cooling	Nom.	kPa		17	16.8	32.7	33.3	31.8	27.9	34.7
		Heating	Nom.	kPa		40.8	40.2	78.8	80	76.2	66.9	83.4
Water heat exchanger - condenser	Type								Shell and tube			
	Water volume			l		20	20.1	22.7	25.3	28.65		32
	Water flow rate	Cooling	Nom.	l/s		6.87	8.38	9.37	10.7	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	15.3	15.8	15.3	22	21.5
		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					88.9			
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		2.0			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			

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)-VZ at a glance

Single compressor

450kW – 1,053kW with R134a
330kW – 790kW with R1234ze

Dual compressor & dual circuit unit

450kW – 1,053kW with R134a
330kW – 790kW with R1234ze

of everything:
2 compressors,
2 expansion valves,
2 condensers,...

VZ CHILLER SERIES

Full inverter water cooled chiller

INVERTER

New condenser design with integral oil separator

High efficient flooded heat exchangers

Highest efficiency in the market in its category

TOP CLASS EFFICIENCY

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.

Why choose EWW(H)(D)-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

VZ CHILLER SERIES

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!

Supporting tools

Product video

Check on

YouTube
www.youtube.com/DaikinEurope

Marketing material

All marketing material can be downloaded from the business portal.
Asset finder > Campaign > VZ chiller series

Product profile

Want to know more about this product?
Have a look at our website and download the product profile:

www.daikineurope.com/vzchillerseries

Water cooled screw inverter chiller, standard efficiency, standard sound

EWWD-VZSS

Microtech 4

- 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

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
ESEER					7.62	7.5	7.63	7.54	7.52	7.86	7.81	7.9	7.46	7.99	7.49	7.95
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
		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	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	Cooling	Min.~Max.	°CDB	-3~20											
	Condenser	Cooling	Min.~Max.	°CDB	16~63											
Refrigerant	Type/GWP				R-134a/1,430											
	Charge			kg	100	110		170	180	250	260	290		320		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	Starting current	Max		A	179	214	245	295	344	-						
	Running current	Cooling	Nom.	A	171	202	220	249	300	349	379	414	470	508	566	604
Unit	Running current	Max		A	256	306	350	421	491	553	555	612	727	810	926	1,009
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400											

performances according to CSS software 10.27

Water cooled screw inverter chiller, high efficiency, standard sound

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EWWD-VZXS

Microtech 4

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
ESEER						7.51	7.92	8.1	8.2	8.22	7.92	8.17	8.36	8.25	8.47	8.24	8.45	8.2	8.33
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
		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		21.5	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	Cooling	Min.~Max.	°CDB		-3~20													
	Condenser	Cooling	Min.~Max.	°CDB		16~65													
Refrigerant	Type/GWP					R-134a/1,430													
	Charge			kg		95		100	110	170		180	250	260	290		320		350
	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	Starting current	Max		A		155	173	179	214	256	295	344	-						
	Running current	Cooling	Nom.	A		126	140	171	201	229	249	299	340	372	400	450	498	554	596
Unit	Running current	Max		A		222	247	256	306	366	421	491	553	555	612	727	810	926	1,009
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400													

performances according to CSS software 10.27

Water cooled screw inverter chiller, premium efficiency, standard sound

EWWD-VZ

Microtech 4

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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
ESEER					8.15	8.48	8.25	8.66	8.53	8.71
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
		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	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	Cooling	Min.~Max.	°CDB	-3~20					
	Condenser	Cooling	Min.~Max.	°CDB	16~65					
Refrigerant	Type/GWP				R-134a/1,430					
	Charge			kg	100	150	180	290	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	Starting current	Max		A	173	214	295	-		
	Running current	Cooling	Nom.	A	138	200	247	338	447	497
Unit	Running current	Max		A	247	306	421	553	727	810
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					

performances according to CSS software 10.27

Water cooled screw inverter chiller, standard efficiency, standard sound

EWWH-VZSS

Microtech 4

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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
ESEER					7.98	7.83	7.9	8.03	7.99	7.93	7.95	8.12	8	8.46	8	8.48
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
		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	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	GWP				7											
	Charge			kg	100	110		170	180	250	260	290		320		350
	Circuits	Quantity			1					2						
Refrigerant circuit	Charge			kg	100	110		170	180	250	260	290		320		350
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	213.0	246.0	265.0	277.0	404.0	445.0	458.0	491.0	523.0	649.0	744.0	807.0
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400											

performances according to CSS software 10.27

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EWWH-VZXS

Microtech 4

Cooling only/Heating only				EWWH-VZXS	335	365	450	525	580	670	800	875	950	C11	C12	C13	C14	C15
Space cooling	A Condition Pdc (35°C - 27/19)			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	
ESEER					7.14	7.56	8.32		8.34	8.46	8.55	8.26		8.5	8.54	8.81	8.61	8.72
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
		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	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	95		100	110	170		180	250	260	290		320		350
	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	178.0	199.0	213.0	246.0	275.0	277.0	404.0	445.0	458.0	491.0	523.0	649.0	744.0	807.0
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400													

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EWWH-VZPS

Microtech 4

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
ESEER					7.9	8.64	8.83	8.54	8.85	9
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
		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	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	GWP				7					
	Charge			kg	100	150	180	290	320	350
	Circuits	Quantity			1			2		
Refrigerant circuit	Charge			kg	100	150	180	290	320	350
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	199.0	246.0	277.0	445.0	523.0	649.0
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					

performances according to CSS software 10.27

Condenserless scroll chiller

- 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-KBW1N µC²SE

Cooling Only					EWLQ-KBW1N	014	025	033	049	064
Cooling capacity	Nom.			kW		12.05	21.87	27.96	43.4	56.71
Power input	Cooling	Nom.		kW		3.54	6.42	8.26	12.74	16.2
EER						3.402	3.406	3.386	3.406	3.501
Dimensions	Unit	Height		mm		600				
		Width		mm		600				
		Depth		mm		600			1,200	
Weight	Unit			kg		104	138	149	252	274
Water heat exchanger -	Type					Brazed plate				
evaporator	Water pressure drop	Cooling	Nom.	kPa		16.5	24.2	22.1	20	22.2
Compressor	Type					Scroll compressor				
	Quantity					1			2	
Sound power level	Cooling	Nom.		dBA		64.0		71.0	67.0	74.0
		Nom.		dBA		64.0		71.0	67.0	74.0
Operation range	Evaporator	Cooling	Min.~Max.	°CDB		-10~20				
	Condenser	Cooling	Min.~Max.	°CDB		25~60				
Refrigerant	Type					R-410A				
	Circuits	Quantity				1			2	
Piping connections	Evaporator water inlet/outlet (OD)					G1"			G1" 1/2	
Power supply	Phase/Frequency/Voltage			Hz/V		3~/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

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										
		Depth		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

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												
		Depth		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

EWLD-J-SS

Microtech 4

Cooling only					EWLD-J-SS	110	130	145	165	235	195	265
Cooling capacity	Nom.			kW		110	128	142	163	236	191	264
Power input	Cooling	Nom.		kW		31.2	38.4	43.8	50.4	66.0	56.0	75.3
Capacity control	Method					Stepless						
	Minimum capacity			%		25.0						
EER						3.51	3.33	3.25	3.24	3.58	3.42	3.51
Dimensions	Unit	Height		mm		1,020						
		Width		mm		913						
		Depth		mm		2,684						
Weight	Unit			kg		1,124	1,141	1,237	1,263	1,489	1,305	1,489
	Operation weight			kg		1,138	1,159	1,253	1,281	1,518	1,327	1,518
Water heat exchanger - evaporator	Type					Plate heat exchanger						
	Water volume			l		14	18	14	17	26	20	26
	Water flow rate	Nom.		l/s		5.2	6.1	6.8	7.8	11.3	9.2	12.6
	Water pressure drop	Cooling	Nom.	kPa		14	13	39	37	26	33	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		151		195		288	195	288
	Nominal running current (RLA)	Cooling		A		52	62	72	81	107	91	120
	Maximum running current			A		76	97	107	122	167	143	189
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

Water to water screw heat pump

- 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

EWLH-J_EWLS-J

Microtech 4

					EWLH	080J-SS000	100J-SS000	110J-SS000	130J-SS000	140J-SS000	170J-SS000	190J-SS000
Cooling capacity	Nom.			kW		84	102	109	127	142	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				
		Depth		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		9.69	9.92	17.4	17.5	16.1	15.5	18.6
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	71	84	92
		Max		A		75	90	100	114	143	158	178
Power supply	Phase/Frequency/Voltage			Hz/V				3~/50 /400				

Water to water screw heat pump

- 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

EWLH-J_EWLS-J

Microtech 4

					EWLS	110J-SS000	130J-SS000	150J-SS000	170J-SS000	200J-SS000	240J-SS000	270J-SS000
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	3.41	3.35	3.41	3.44	3.41	3.4
Dimensions	Unit	Height		mm				1,020				
		Width		mm				913				
		Depth		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	8.3	9.6	11.3	12.8
	Water pressure drop	Cooling	Nom.	kPa		15.9	15.7	31	31.4	29.9	26.9	33.7
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-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				

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

Microtech 4

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							
		Depth		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

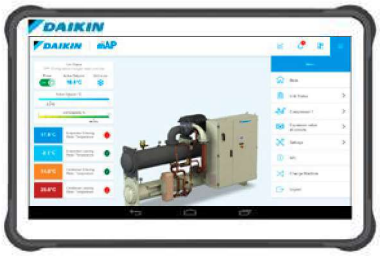
Water cooled centrifugal chiller, high efficiency, standard sound

- 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

EWWD-DZ

Microtech 4

DAIKIN mAP



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						8.56	8.05	8.29	8.81	8.92	8.75	8.95	9.27	8.82	9.26	9.09	9.21
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						9.68	9.67	10	9.66	9.78	10.1	9.86	10.2	9.56	10.5	9.91	9.93
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	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

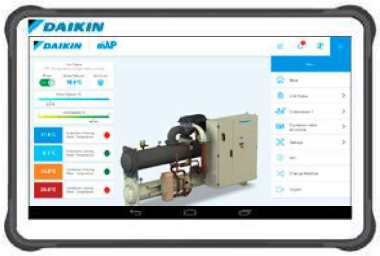
Water cooled centrifugal chiller, high efficiency, standard sound

- 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

EWWD-DZ

Microtech 4

DAIKIN mAP



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					8.57	8.09	8.34	8.82	8.93	8.86	9	8.57	9.32	8.84	9.35	9.05	9.33
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					9.57	9.62	10	9.61	9.63	10.2	9.79	9.58	10.1	9.55	10.4	9.86	10.00
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	207.3	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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- Compact footprint through stacked heat exchanger lay-out
- HFO R1234zeE Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
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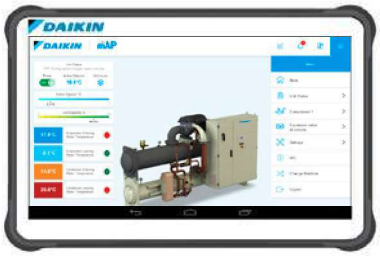
- A wide portfolio of options is available to meet different requirements.
- The compressor vibration levels are extremely low as a result of the high-speed design

EWWH-DZ

Microtech 4



Cooling Only				EWWH-DZXS	230	320	380	430	455	460	640	755	920	950	C11	C13
Space cooling	A Condition Pdc (35°C - 27/19)			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					8.46	8.84		8.74		8.58	8.99	9.04	9.03	9.08	9.06	9.18
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					9.61	9.79	9.83	9.71	9.68	9.73	9.99	10.05	9.99	9.83	9.91	9.98
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		
		Depth		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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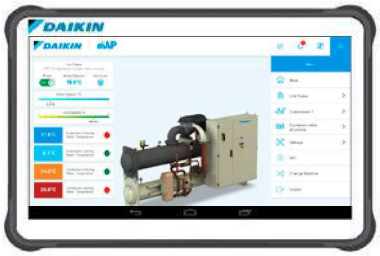
EWWH-DZ

Microtech 4



Cooling Only				EWWH-DZXE	245	345	405	470	480	490	685	740	810	955	C10	C12	C14
Space cooling	A Condition Pdc (35°C - 27/19)			kW	241.98	339.33	401.93	460.88	483.83	486.57	678.69	741	802.77	944.73	1,033	1,226	2,172.91
	ηs,c			%	331	350		335	345	344	356	344.6	358	356	364.2		371.8
SEER					8.48	8.95	8.94	8.81	8.67	8.83	9.11	8.69	9.16	9.1	9.18		9.37
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					9.64	9.88	9.94	9.62	9.87	9.74	10.07	9.66	10.14	10.13	9.92	9.98	9.94
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		
		Depth		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												

performances according to CSS software 10.27

Water cooled centrifugal chiller, high efficiency, standard sound

- Optional Variable Frequency Drive (VFD) to improve the part load efficiency
- High efficiency flooded type shell and tube evaporator/ condensers
- 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)
- Unloading to 5% of full load provides improved stability of the chilled water temperature and less harmful cycling of compressors
- Single stage centrifugal compressor (DWSC)

DWSC-B_DWDC-B

Cooling Only		DWSC B vintage/DWDC B vintage	DWSC B vintage.	DWDC B vintage.
Cooling capacity	Min./Max.	kW	1,050 (1)/4,500 (2)	2,100 (3)/9,000 (4)
Compressor	Type		Single stage centrifugal compressor	
Refrigerant	Type		R-134a / R-513A	
Power supply	Frequency	Hz	50/60	

(1)300 RT | (2)1250 RT | (3)600 RT | (4)2500 RT