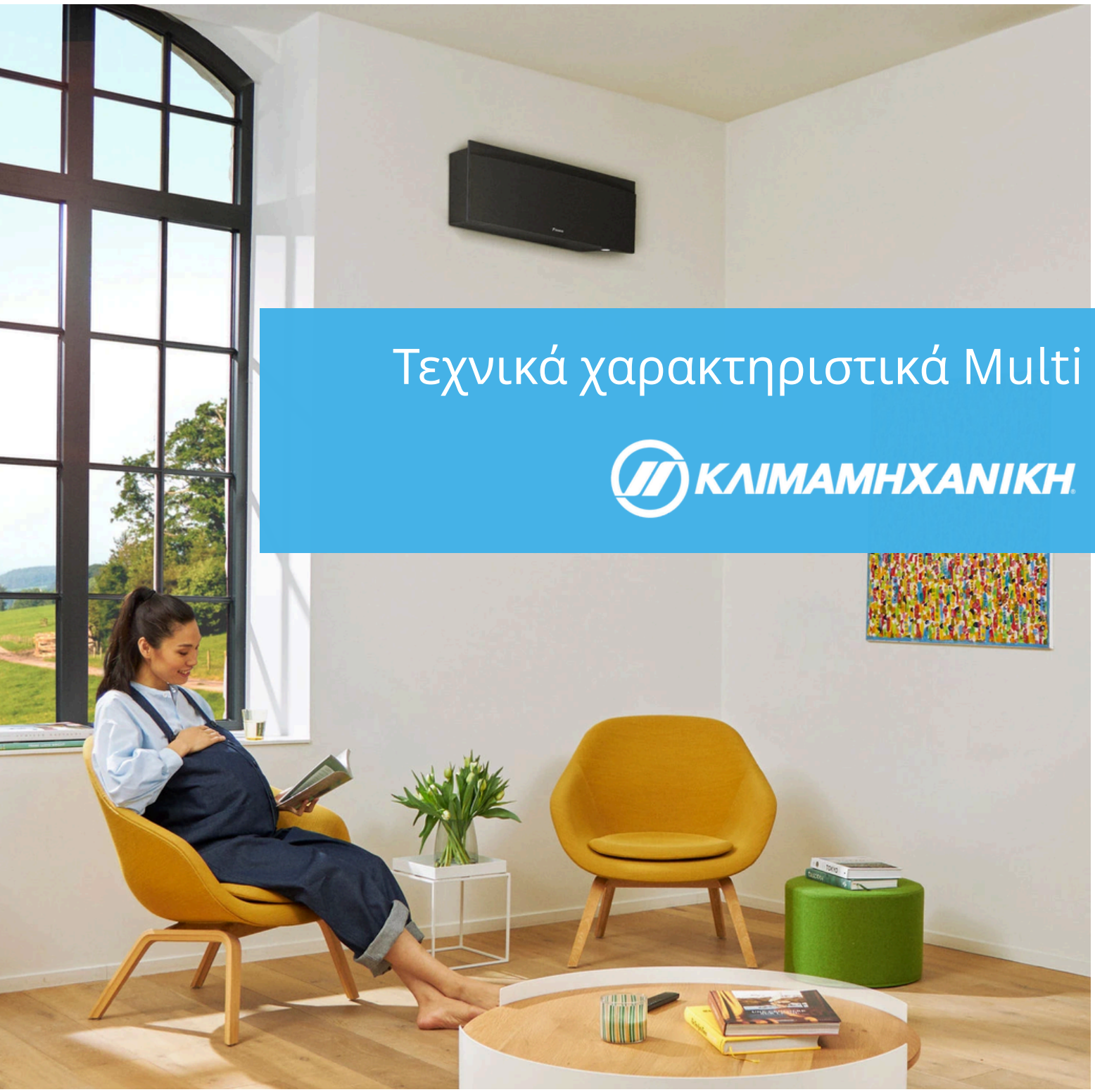
Παγκόσμιος Ηγέτης στο **Ιδανικό** Κλίμα.



# Τεχνικά χαρακτηριστικά Multi

ΚΛΙΜΑΜΗΧΑΝΙΚΗ

Κεντρικά γραφεία Βενιζέλου 5
Έκθεση Βενιζέλου 3 & Αριστείδου 40
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CE

# Multi model application

- New operation range: Heating possible down to -20 degrees and cooling possible up to +50 degrees
- Seasonal efficiency values up to A+++ in cooling and heating thanks to its up-to-date technology and built-in intelligence
- Up to 5 indoor units can be connected to 1 multi outdoor unit; all indoor units are individually controllable and do not need to be installed in the same room or at the same time. They operate simultaneously within the same heating or cooling mode.
- Different types of indoor units can be connected: e.g. wall mounted, ceiling mounted cassette corner, concealed ceiling unit
- Outdoor units are fitted with a swing compressor, renowned for its low noise and high energy efficiency

-20°
Guaranteed operation down to -20°C



2MXM40A9
2MXM50A8
3MXM40A8



2MXM68A8 3MXM52-68A8
4MXM80A8 5MXM90A8

Unique In the market *

| Connectable indoor units | Wall mounted | | | | | | | | | | | | | | | | | | | Concealed ceiling | | | | | | | Floor standing | | | | Round flow | | | Fully flat | | | | Ceiling suspended | | | Concealed floor standing | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FTXJ-A9 | | | | | C/FTXA-C/D | | | | | | C/FTXM-A | | | | | | | FTXP-N9 | | | | FDXM-F9 | | | | FBA-A(9) | | | | C/FVXM-B | | | | FCAG-B | | | | FFA-A9 | | | | FHA-A(9) | | | | FNA-A9 | | | |
| | 20 | 25 | 35 | 42 | 50 | 15 | 20 | 25 | 35 | 42 | 50 | 15 | 20 | 25 | 35 | 42 | 50 | 60 | 71 | 20 | 25 | 35 | 25 | 35 | 50 | 60 | 35 | 50 | 60 | 20 | 25 | 35 | 50 | 35 | 50 | 60 | 35 | 50 | 60 | 25 | 35 | 50 | 60 | 35 | 50 | 60 | 25 | 35 | 50 | 60 |
| 2MXM40A9 | • | • | • | | | • | • | • | • | | | • | • | • | • | | | | | • | • | • | • | • | | | | | | | • | • | • | | | | | | | | | | | | | | | | |
| 2MXM50A8 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | | | • | • | • | • | • | • | | | | | | • | • | • | • | | | | • | • | • | | | | | | | | |
| 2MXM68A8 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| 3MXM40A8 | • | • | • | | | • | • | • | • | | | • | • | • | • | | | | | • | • | • | • | • | | | • | | | | • | • | • | | | | | • | • | | | | | | | | | | |
| 3MXM52A8 | • | • | • | • | • | • | • | • | • | • | • | •* | •* | •* | •* | • | • | | | • | • | • | • | • | • | | • | • | | | • | • | • | • | • | • | | | | | | | | | | | | |
| 3MXM68A8 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| 4MXM68A8 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| 4MXM80A8 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| 5MXM90A8 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |

* A+++/A+++ combinations

2MXM-A9 2MXM-A8 3MXM-A8 4MXM-A8 5MXM-A8

| Outdoor unit | | | | | 2MXM40A9 | 2MXM50A8 | 2MXM68A8 | 3MXM40A8 | 3MXM52A8 | 3MXM68A8 | 4MXM68A8 | 4MXM80A8 | 5MXM90A8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | | mm | 552x852x350 | | | 734x974x408 | | | | | |
| Weight | Unit | | | kg | 36 | 41 | 60 | 57 | | 62 | 63 | 67 | 68 |
| Sound power level | Cooling | | | dBA | 60 | | 61 | 59 | | 61 | | | 64 |
| | Heating | | | dBA | 62 | | 61 | 59 | | 61 | | | 64 |
| Sound pressure level | Cooling | Nom. | | dBA | 46 | 48 | | 46 | | 48 | | | 52 |
| | Heating | Nom. | | dBA | 48 | 50 | 48 | 47 | | 48 | | | 52 |
| Operation range | Cooling | Ambient | Min.~Max. | °CDB | -10~46 | -10~50 | | | | | | | |
| | Heating | Ambient | Min.~Max. | °CWB | -15~18 | -20~24 | | | | | | | |
| Refrigerant | Type | | | | R-32 | | | | | | | | |
| | GWP | | | | 675 | | | | | | | | |
| | Charge | | | kg/TCO2Eq | 0.88/0.60 | 1.15/0.78 | 2.00/1.35 | 1.80/1.22 | | 2.00/1.35 | | 2.40/1.62 | |
| Piping connections | Liquid | OD | | mm | 6.35 | | | | | | | | |
| | Gas | OD | | mm | 9.5 | | | | | | | | |
| | Piping length | OU - IU | Max. | m | 20(1) | | | 25(1) | | | | | |
| | | System | Chargeless | m | 20 | | | 30 | | | | | |
| | Additional refrigerant charge | | | kg/m | 0.02 (for piping length exceeding 20m) | | | 0.02 (for piping length exceeding 30m) | | | | | |
| | Level difference | IU - OU | Max. | m | 15 | | | | | | | | |
| Power supply | Phase/Frequency/Voltage | | | Hz/V | 1~/50/220-230-240 | 1~/50/220-240 | | | | | | | |
| Current - 50Hz | Maximum fuse amps (MFA) | | | A | 16 | | 20 | 16 | 20 | | | 25 | |

(1) For one room | See separate drawing for operation range | See separate drawing for electrical data | Contains fluorinated greenhouse gases

# Multi+

## Only one system for domestic hot water + air conditioning

- New design outlook for outdoor unit
- Seasonal efficiency values up to A+++ in cooling and A++ for air conditioning
- Domestic hot water efficiencies up to A+
- Wall mounted domestic hot water tank, **available in 90l and 120l**
- Up to 4 indoor units can be connected to 1 multi outdoor unit; all indoor units are individually controllable and do not need to be installed in the same room or at the same time. They operate simultaneously within the same heating or cooling mode.
- Different types of indoor units can be connected: e.g. wall mounted, ceiling mounted cassette corner, concealed ceiling unit
- The outdoor unit is fitted with a swing compressor, renowned for its low noise and high energy efficiency



4MWXM-A9



EKHWET-BV3
90l and 120l

4MWXM-A9 EKHWET-BV3

NOTE: please always install a pressure relief valve when installing a domestic hot water tank

| Connectable indoor units | Wall mounted | | | | | | | | | | | | | | | | | | | Concealed ceiling | | | | | | | | | | Floor standing | | | | Round flow | | Fully flat | | | Ceiling mounted | | Concealed floor standing | | | | Domestic hot water tank | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FTXJ-A9 | | | | | C/FTXA-C/D | | | | | | C/FTXM-A | | | | | | FTXP-N9 | | | FDXM-F9 | | | FBA-A9 | | | | | | | CVXM-B | FVXM-B | | | FCAG-B | | FFA-A9 | | | FHA-A9 | | FNA-A9 | | | | EKHWET-BV3 | |
| | 20 | 25 | 35 | 42 | 50 | 15 | 20 | 25 | 35 | 42 | 50 | 15 | 20 | 25 | 35 | 42 | 50 | 20 | 25 | 30 | 25 | 35 | 50 | 35 | 50 | 60 | 71 | 100 | 125 | 20 | 25 | 35 | 50 | 35 | 50 | 25 | 35 | 50 | 35 | 50 | 25 | 35 | 50 | 90 | 120 |
| 4MWXM52A9 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ●* | ●* | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

It is not allowed to install 1 indoor unit connection. Exception is 1 indoor unit connection of FBA60-71
* No combination with additional indoor units possible

| Efficiency data | | | | | EKHWET90BV3 + 4MWXM52A9 | EKHWET120BV3 + 4MWXM52A9 |
|---|---|---|---|---|---|---|
| COPdhw | Average climate | | | | 2.19 | 2.30 |
| | Warm climate | | | | 2.68 | 2.70 |
| Heat-up time | Average climate | | | h:mm | 1:18 | 2:15 |
| | Warm climate | | | h:mm | 1:53 | 3:35 |
| Seasonal efficiency | Domestic hot water heating | General | Declared load profile | | M | L |
| | | Average climate | ηwh (water heating efficiency) | % | 90 | 94 |
| Water heating energy efficiency class* | | | | | A | |
| Set point | | | | °C | 44 | 47 |

*EN16147(2017)

| Accessory | | | | | EKHWET 90BV3 | 120BV3 |
|---|---|---|---|---|---|---|
| Casing | Colour | | | | White + Black | |
| | Material | | | | Sheet metal/Acrylonitrile Butadiene Styrene | |
| Dimensions | Unit | Height | Tank | mm | 1,032 | 1,283 |
| | | Width | | mm | 510 | |
| | | Depth | | mm | 570 | |
| Weight | Unit | Empty | | kg | 43 | 47 |
| Tank | Water volume | | | l | 89 | 118 |
| | Material | | | | Enamel coated steel acc. DIN4753TL2 | |
| | Maximum water temperature | | | °C | 75.0 | |
| | Insulation | Heat loss | | kWh/24h | 1.1 | 1.3 |
| | Energy efficiency class | | | | B | C |
| | Standing heat loss | S | | W | 46 | 54 |
| | Storage volume | V | | l | 89 | 118 |
| Heat exchanger | Quantity | | | | 1 | |
| | Domestic hot water | Quantity | | | 1 | |
| | | Tube material | | | Aluminium | |
| | | Operating pressure | | bar | 42 | |
| Booster heater | Capacity | | | kW | 1.2 | |

| Outdoor unit | | | | | 4MWXM 52A9 |
|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | | mm | 734x974x401 |
| Weight | Unit | | | kg | 60 |
| Sound power level | Cooling | Nom. | | dBA | 59 |
| | Heating | Nom. | | dBA | 60 |
| Sound pressure level | Cooling | Nom. | | dBA | 46 |
| | Heating | Nom. | | dBA | 47 |
| Operation range | Cooling | Ambient | Min.~Max. | °CDB | -10~46 |
| | Heating | Ambient | Min.~Max. | °CWB | -15~24 |
| Refrigerant | Type | | | | R-32 |
| | GWP | | | | 675 |
| | Charge | | | kg/TCO2Eq | 2.20/1.49 |
| Piping connections DX | Liquid | OD | | mm | 6.35 |
| | Gas | OD | | mm | 9.50/12.7 |
| Piping connections DHW | Liquid | OD | | mm | 6.35 |
| | Gas | OD | | mm | 9.50 |
| Piping length | OU - IU | | Max. | m | 25 |
| | System Chargeless | | | m | |
| | Additional refrigerant charge | | | kg/m | 0.02 (for piping length exceeding 30m) |
| Level difference | IU - OU | | Max. | m | 15 |
| Power supply | Phase/Frequency/Voltage | | | Hz/V | 1~/50/220-240 |
| Current - 50Hz | Maximum fuse amps (MFA) | | | A | 20 |

# Multi+

## Only one system for domestic hot water + air conditioning

- New design outlook for outdoor unit
- Seasonal efficiency values up to A+++ in cooling and A++ for air conditioning
- Domestic hot water efficiencies up to A+
- Floor standing domestic hot water tank, **available in 180l and 230l**
- Up to 4 indoor units can be connected to 1 multi outdoor unit; all indoor units are individually controllable and do not need to be installed in the same room or at the same time. They operate simultaneously within the same heating or cooling mode.
- Different types of indoor units can be connected: e.g. wall mounted, ceiling mounted cassette corner, concealed ceiling unit
- The outdoor unit is fitted with a swing compressor, renowned for its low noise and high energy efficiency

NOTE: please always install a pressure relief valve when installing a domestic hot water tank



5MWXM-A9



CKHWS-BV3
180l and 230l

5MWXM-A9 CKHWS-BV3

| Multi+ outdoor | Indoor units | | |