

ecodan[®]

Residential Product Catalogue 2025



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Heating



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Ecodan Heat Pumps Renewable Heating Systems

There is now no doubt that the world is in a climate crisis and that we need to act immediately to avoid catastrophic climate change. The UK Government have reacted by being the first major economy to pass net zero (Greenhouse Gas) emission laws. Renewable technologies, such as heat pumps, have become an integral part of the solution to the problem of reducing carbon emissions generated through heating.

As a market leader in both commercial and domestic heat pumps, Mitsubishi Electric is a pioneer in the development of this renewable technology. Around the world, heat pumps have been utilised for decades and Mitsubishi Electric has refined this technology to produce **Ecodan - one of the most advanced, efficient heating systems available on the market today.**



TV presenter, architect, lecturer and writer, George Clarke is a passionate advocate of design excellence and high levels of quality in the construction industry.

“ The way we design, build, heat, power and recycle our homes needs to change, and change quickly, and renewable heating is an important part of our future.

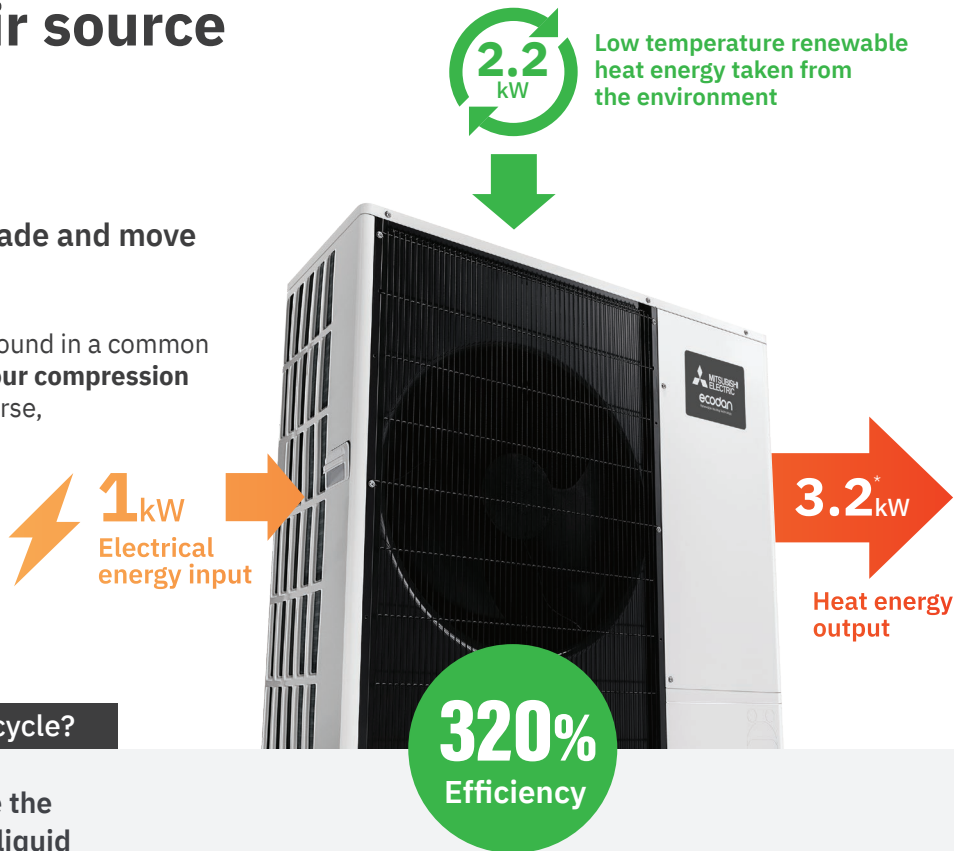
I'm therefore delighted to associate myself with Ecodan, the market-leading brand of heat pumps built here in the UK and which can help reduce energy bills and lower emissions for almost any home. ”



How do Ecodan air source heat pumps work

Ecodan heat pumps harvest, upgrade and move heat from one location to another.

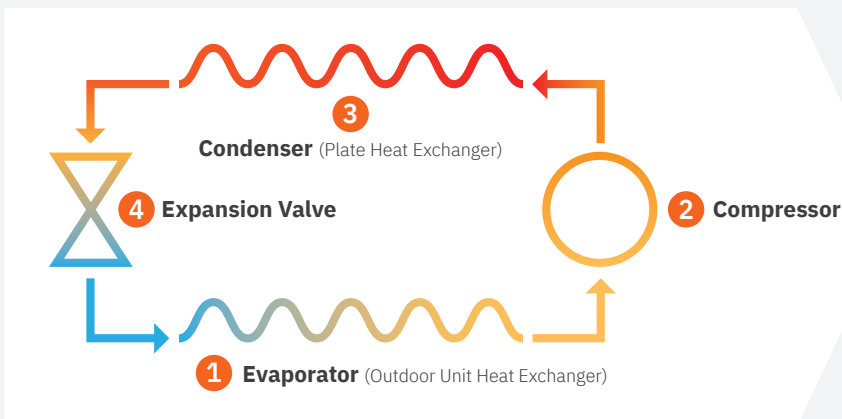
Using technology similar to that which is found in a common domestic fridge, heat pumps use the **vapour compression cycle** to generate heat. When used in reverse, this cycle provides the ability to take low temperature renewable heat from the environment and raise it to usable temperatures capable of handling the space and water heating loads required in buildings.



What is the vapour compression cycle?

At the beginning of the first phase the refrigerant is a cold low pressure liquid

- 1 Refrigerant passes through the **evaporator** and is exposed to the heat energy of the outside air. As the air flows over the evaporator coil, this heat energy is transferred to the refrigerant, causing it to pressurise into a warm vapour.
- 2 This warm vapour then enters the **compressor** where its temperature increases as a result of the compression process and turns into a hot gas.
- 3 Hot refrigerant gas passes through the **condenser** (plate heat exchanger) and transfers its heat energy into the (cooler) water side that is connected to the primary water circuit. The heated water in this circuit is then used to heat up a hot water cylinder inside the property. Due to this energy transfer, the passing hot refrigerant gas cools and transforms back into a cool vapour.
- 4 Although the refrigerant vapour has cooled, in order to return the refrigerant back to its initial state, it is passed through an **expansion valve**. This lowers the pressure of the cool refrigerant vapour and transforms it back into a low pressure liquid - allowing for the vapour compression cycle to start once again.

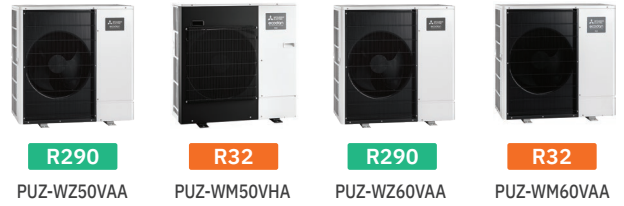


This process is repeated

As the refrigerant boils at -46°C , there is still plenty of energy in the air on a cold day to make the process work.

*As independently tested by BSRIA based upon BSEN14511 Part 3 standard rating conditions. Due to the method of operation, the performance of heat pumps will vary based upon the temperature of the heat source and the requirements of the heat delivered. The BSEN14511 testing relates to the heat pump performance only and not the entire heating system.

Range Overview



| System Type | | Litres | 5kW | 5kW | 6kW | 6kW |
|---|--|--|-----|-----|-----|-----|
| FTC7 Standalone | | PAC-IF082B-E | ● | ● | ● | ● |
| | | | | | | |
| FTC7 Packaged Cylinder | | EHPT20X-MEHEW 200 | ● | ● | ● | ● |
| FTC7 Pre-Plumbed Slimline Cylinder | | EHPT15X-UKHLEWS 150 | ● | ● | ● | ● |
| | | EHPT17X-UKHLEWS 170 | ● | ● | ● | ● |
| FTC7 Pre-Plumbed Standard Cylinder | | EHPT15X-UKHEWS 150 | ● | ● | ● | ● |
| | | EHPT17X-UKHEWS 170 | ● | ● | ● | ● |
| | | EHPT21X-UKHEWS 210 | ● | ● | ● | ● |
| | | EHPT21X-UKHEWL 210 | | | ● | ● |
| | | EHPT25X-UKHEWL 250 | | | ● | ● |
| | | EHPT30X-UKHEWL 300 | | | | |
| Ecodan Hydrodan (Water Loop Technology) | | EHWT17D-MHEDW 170 | | | | |
| Approvals | | Manufactured in the United Kingdom | ● | ● | ● | ● |
| | | Red Dot Award | ● | | ● | ● |
| | | Quiet Mark Certification | | | | |
| | | Microgeneration Certification Scheme | ● | ● | ● | ● |
| | | Keymark | ● | ● | ● | ● |
| | | Boiler Upgrade Scheme Product Eligibility List | ● | ● | ● | ● |

Note: Product Eligibility List from <https://www.ofgem.gov.uk/publications/boiler-upgrade-scheme-product-eligibility>.

Heating



R290

PUZ-WZ85VAA
PUZ-WZ85YAA



R32

PUZ-WM85VAA
PUZ-WM85YAA



R290

PUZ-WZ100VAA
PUZ-WZ100YAA



R32

PUZ-WM112VAA
PUZ-WM112YAA



R290

PUZ-WZ120VAA
PUZ-WZ120YAA



R32

PUZ-HWM140VHA
PUZ-HWM140YHA



R290

CAHV-Z450YA-HPB



R454C

CAHV-R450YA-HPB



R744

QAHV-N560YA-HPB

| 8.5kW | 8.5kW | 10kW | 11.2kW | 12kW | 14kW | 40kW | 40kW | 40kW |
|-------|-------|------|--------|------|------|------|------|------|
| ● | ● | ● | ● | ● | ● | | | |
| ● | ● | ● | ● | ● | ● | | | |
| ● | ● | | | | | | | |
| ● | ● | | | | | | | |
| ● | ● | | | | | | | |
| ● | ● | | | | | | | |
| ● | ● | | | | | | | |
| ● | ● | ● | ● | ● | ● | | | |
| ● | ● | ● | ● | ● | ● | | | |
| ● | ● | ● | ● | ● | ● | | | |
| | | | | | | | ● | |
| ● | ● | ● | ● | ● | | | | |
| ● | ● | ● | ● | ● | | | | |
| ● | ● | ● | ● | ● | | | | |
| ● | ● | ● | ● | ● | ● | | ● | |
| ● | ● | ● | ● | ● | ● | | ● | ● |
| ● | ● | ● | ● | ● | ● | | | |



Ecodan Outdoor Unit Range

The Ecodan range of heat pumps are self-contained units that only require water and electrical connections. Our innovative range of products are easy to install, simple to maintain and offer market leading low noise levels.

Ecodan heat pumps are available from 5kW up to 640kW, making them suitable for virtually any property, from small flats to large detached houses, from an office block to a school.

They are the renewable, low carbon alternative to traditional high carbon heating systems.



Ecodan R290

Monobloc Air Source Heat Pump

(5 & 6kW)

R290



Key Features:

- A+++ heating efficiency (Range A+++ to D)
- Ultra quiet noise levels
- High water temperature of up to 75°C
- Fully electric source of heating and hot water

Key Benefits:

- Minimised energy consumption
- Flexible product placement
- Remote control, monitoring, maintenance and technical support
- Ideal for energy storage
- Zero carbon ready



| Outdoor Unit | | PUZ-WZ50VAA | PUZ-WZ60VAA |
|---|--|----------------|----------------|
| HEAT PUMP SPACE HEATER - 55°C | ErP Rating | A++ | A++ |
| | η_s | 138% | 139% |
| | SCOP (MCS) | 3.38 | 3.43 |
| HEAT PUMP SPACE HEATER - 35°C | ErP Rating | A+++ | A+++ |
| | η_s | 182% | 179% |
| | SCOP (MCS) | 4.42 | 4.39 |
| HEAT PUMP COMBINATION HEATER - Large Profile ¹ | ErP Rating | A+ | A+ |
| | η_{wh} | 143% | 143% |
| HEATING ² (A-7/W35) | Capacity (kW) | 5.2 | 6.2 |
| | Power Input (kW) | 1.94 | 2.51 |
| | COP | 2.68 | 2.47 |
| OPERATING AMBIENT TEMPERATURE (°C DB) | | -25 ~ +46 | -25 ~ +46 |
| MAXIMUM WATER OUTLET TEMPERATURE (°C) | | 75 | 75 |
| SOUND DATA ³ | Pressure Level at 1m (dBA) | 40 | 40 |
| | Power Level (dBA) ⁴ | 56 | 56 |
| WATER DATA | Pipework Size (mm) | 22 | 22 |
| | Flow Rate (l/min) | 14 | 17 |
| | Water Pressure Drop (kPa) | 18.16 | 26 |
| DIMENSIONS (mm) | Width | 1050 | 1050 |
| | Depth | 480 | 480 |
| | Height | 1020 | 1020 |
| WEIGHT (kg) | | 89 | 89 |
| ELECTRICAL DATA | Electrical Supply | 220-240v, 50Hz | 220-240v, 50Hz |
| | Phase | Single | Single |
| | Nominal Running Current [MAX] (A) ⁵ | 13 | 13 |
| | Fuse Rating - MCB Sizes (A) ⁶ | 16 | 16 |
| REFRIGERANT CHARGE (kg) / CO ₂ EQUIVALENT (t) | R290 (GWP 3) | 0.6 / 0.0018 | 0.6 / 0.0018 |

NOTES:

¹ Combination with EHPT20X-MEHEW Cylinder

² Under normal heating conditions at outdoor temp: -7°CDB / -8°CWB, outlet water temp 35°C, inlet water temp 30°C.

³ Under normal heating conditions at outdoor temp: 7°CDB / 6°CWB, outlet water temp 55°C, inlet water temp 47°C as tested to BS EN14511.

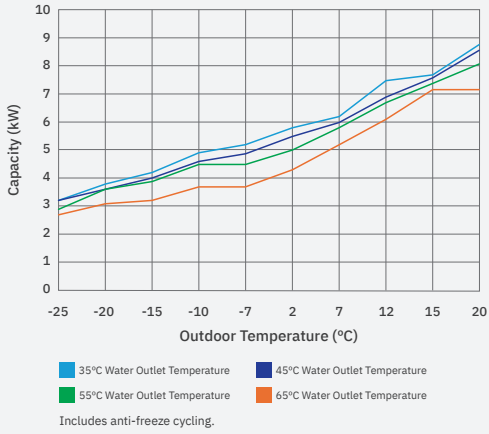
⁴ Sound power level tested to BS EN12102.

⁵ Under nominal heating conditions at outdoor temp: 7°C, outlet water temp: 35°C.

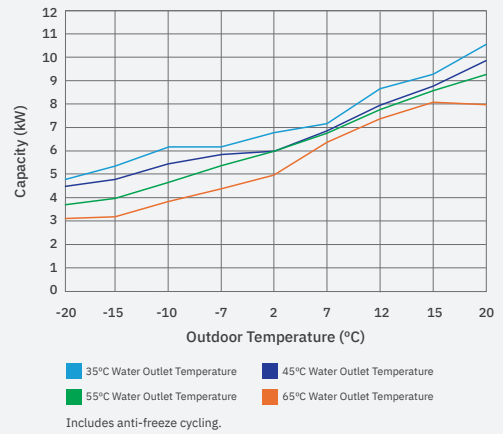
⁶ MCB Sizes BS EN60898-2 & BS EN60947-2.

η_s is the seasonal space heating energy efficiency (SSHEE) η_{wh} is the water heating energy efficiency

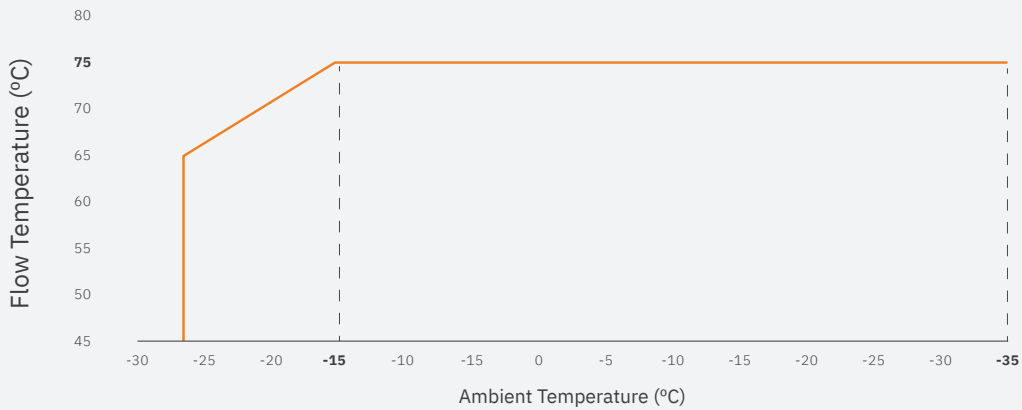
PUZ-WZ50VAA Capacities



PUZ-WZ60VAA Capacities



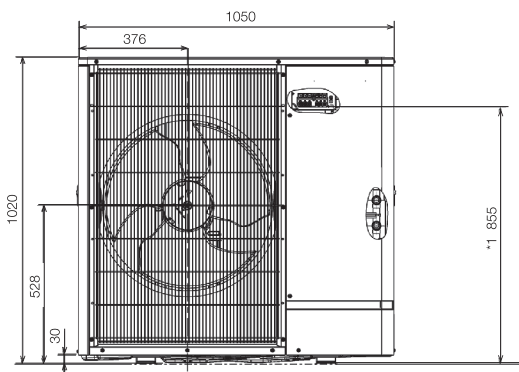
PUZ-WZ50-60VAA Flow Temperature



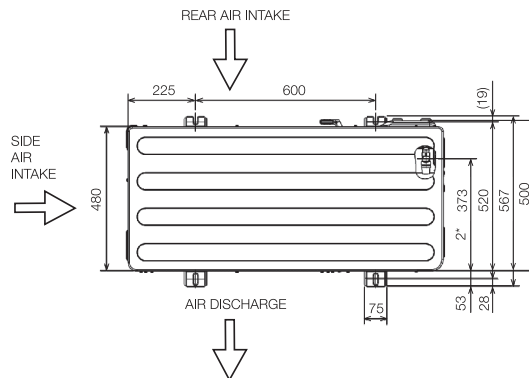
PUZ-WZ50-60VAA Dimensions

All dimensions (mm)

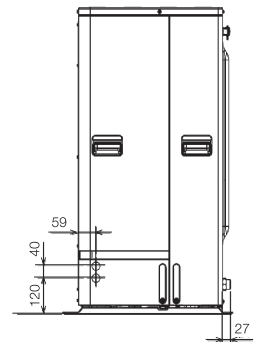
FRONT VIEW



UPPER VIEW



SIDE VIEW



Ecodan R290

Monobloc Air Source Heat Pump

(8.5, 10 & 12kW)

R290



Key Features:

- A+++ heating efficiency (Range A+++ to D)
- Ultra quiet noise levels
- High water temperature of up to 75°C
- Fully electric source of heating and hot water

Key Benefits:

- Minimised energy consumption
- Flexible product placement
- Remote control, monitoring, maintenance and technical support
- Ideal for energy storage
- Zero carbon ready



Manufactured in the UK



037-0033-20-01



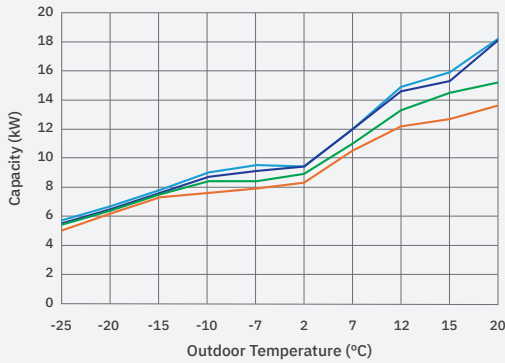
reddot design award

| Outdoor Unit | | PUZ-WZ85V/YAA | PUZ-WZ100V/YAA | PUZ-WZ120V/YAA |
|---|---------------------------------------|-----------------------|-----------------------|-----------------------|
| HEAT PUMP SPACE HEATER - 55°C | ErP Rating | A++ | A++ | A++ |
| | η_s | 143% | 141% | 142% |
| | SCOP (MCS) | 3.51 | 3.48 | 3.51 |
| HEAT PUMP SPACE HEATER - 35°C | ErP Rating | A+++ | A+++ | A+++ |
| | η_s | 183% | 189% | 192% |
| | SCOP (MCS) | 4.47 | 4.62 | 4.71 |
| HEAT PUMP COMBINATION HEATER - Large Profile ¹ | ErP Rating | A+ | A+ | A+ |
| | η_{wh} | 137% | 129% | 129% |
| HEATING ² (A-7/W35) | Capacity (kW) | 8.5 | 10.0 | 11.5 |
| | COP | 2.60 | 2.70 | 2.45 |
| | OPERATING AMBIENT TEMPERATURE (°C DB) | -25 ~ +46 | -25 ~ +46 | -25 ~ +46 |
| MAXIMUM WATER OUTLET TEMPERATURE (°C) | | 75 | 75 | 75 |
| SOUND DATA ³ | Pressure Level at 1m (dBA) | 40 | 40 | 40 |
| | Power Level (dBA)*4 | 54 | 55 | 55 |
| WATER DATA | Pipework Size (mm) | 28 | 28 | 28 |
| | Flow Rate (l/min) | 27 | 34 | 34 |
| DIMENSIONS (mm) | Width | 1050 | 1050 | 1050 |
| | Depth | 480 | 480 | 480 |
| | Height | 1040 | 1040 | 1040 |
| WEIGHT (kg) | | 103/117 | 120/131 | 120/131 |
| ELECTRICAL DATA | Electrical Supply | 220-240v, 50Hz / 400v | 220-240v, 50Hz / 400v | 220-240v, 50Hz / 400v |
| | Phase | Single / Three | Single / Three | Single / Three |
| | Nominal Running Current [MAX] (A)*5 | 21/12 | 28/12 | 35/12 |
| | Fuse Rating - MCB Sizes (A)*6 | 25/16 | 32/16 | 40/16 |
| REFRIGERANT CHARGE (kg) / CO ₂ EQUIVALENT (t) | R290 (GWP 0.02) | 0.60 / 0.000012 | 0.82 / 0.0000164 | 0.82 / 0.0000164 |

NOTES:

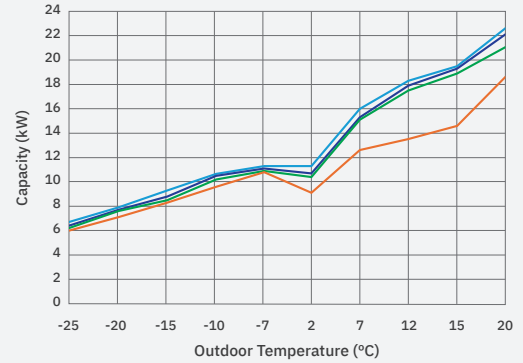
- *1 Combination with EHPT20X-MEHEW Cylinder
 *2 Under normal heating conditions at outdoor temp: -7°CDB / -8°CWB, outlet water temp 35°C, inlet water temp 30°C.
 *3 Under normal heating conditions at outdoor temp: 7°CDB / 6°CWB, outlet water temp 55°C, inlet water temp 47°C as tested to BS EN14511.
 *4 Sound power level tested to BS EN12102.
 *5 Under nominal heating conditions at outdoor temp: 7°C, outlet water temp: 35°C.
 *6 MCB Sizes BS EN60898-2 & BS EN60947-2.
 η_s is the seasonal space heating energy efficiency (SSHEE) η_{wh} is the water heating energy efficiency

PUZ-WZ85V/YAA Capacities



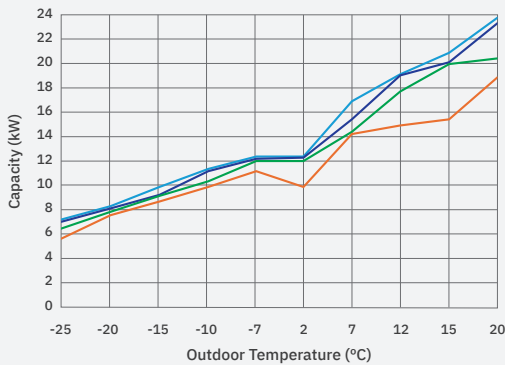
■ 35°C Water Outlet Temperature ■ 45°C Water Outlet Temperature
■ 55°C Water Outlet Temperature ■ 65°C Water Outlet Temperature
 Includes anti-freeze cycling.

PUZ-WZ100V/YAA Capacities



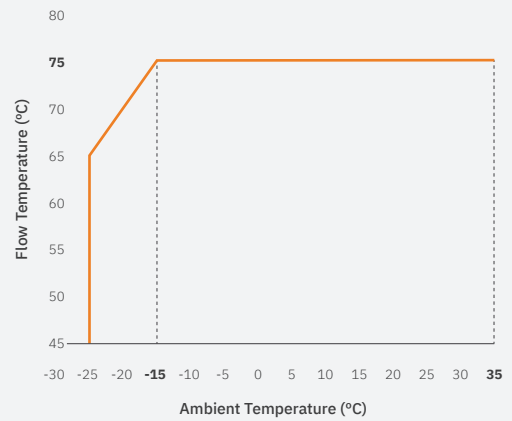
■ 35°C Water Outlet Temperature ■ 45°C Water Outlet Temperature
■ 55°C Water Outlet Temperature ■ 65°C Water Outlet Temperature
 Includes anti-freeze cycling.

PUZ-WZ120V/YAA Capacities



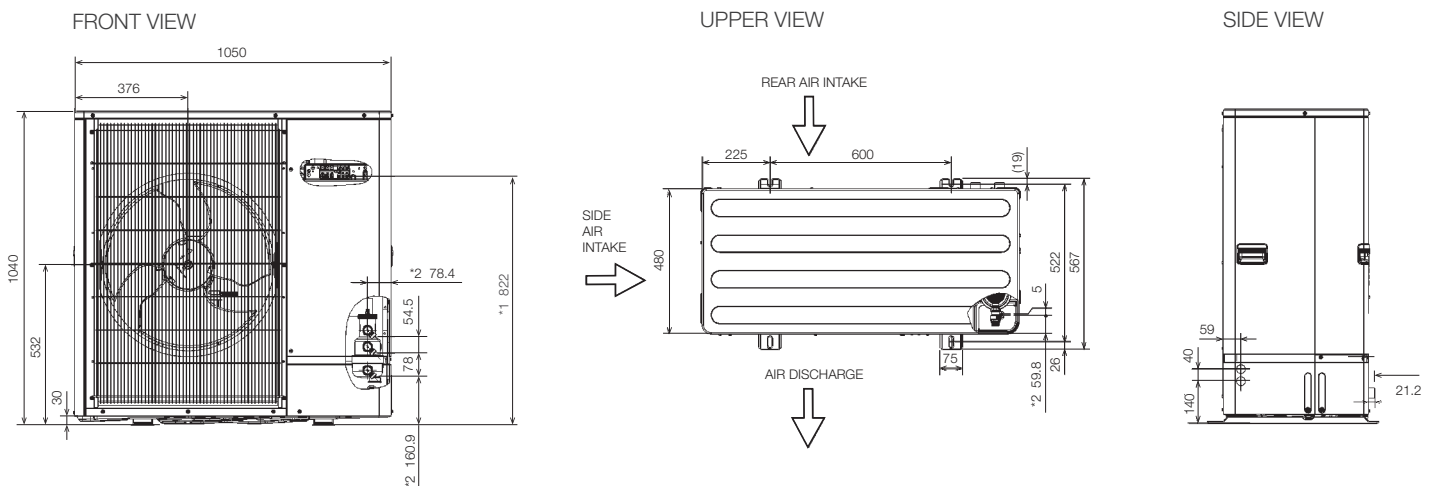
■ 35°C Water Outlet Temperature ■ 45°C Water Outlet Temperature
■ 55°C Water Outlet Temperature ■ 65°C Water Outlet Temperature
 Includes anti-freeze cycling.

PUZ-WZ85-100-120V/YAA Flow Temperature



PUZ-WZ85/100/120 V/YAA Dimensions

All dimensions (mm)



Ecodan R32

Monobloc Air Source Heat Pump

(5kW)



Key Features:

- A+++ heating efficiency (Range A+++ to D)
- Ultra quiet noise levels
- Maintains full heating capacity at low temperatures
- Zero carbon solution

Key Benefits:

- Ultra low running cost
- Flexible product placement
- Confident and quick product selection
- Help to tackle the climate crisis
- Remote control, monitoring, maintenance and technical support



Manufactured in the UK



037-0032-20

| Outdoor Unit | | PUZ-WM50VHA(-BS) |
|---|--|------------------------|
| HEAT PUMP SPACE HEATER - 55°C | ErP Rating | A++ (Range A+++ to D) |
| | η_s | 129% |
| | SCOP (MCS) | 3.2 |
| HEAT PUMP SPACE HEATER - 35°C | ErP Rating | A+++ (Range A+++ to D) |
| | η_s | 183% |
| | SCOP (MCS) | 4. |
| HEAT PUMP COMBINATION HEATER - Large Profile ¹ | ErP Rating | A+ (Range A+ to F) |
| | η_{wh} | 135% |
| HEATING ² | Capacity (kW) | 5.0 |
| (A-7/W35) | Power Input (kW) | 1.67 |
| | COP | 3.00 |
| OPERATING AMBIENT TEMPERATURE (°C DB) | | -20 ~ +35 |
| SOUND DATA ³ | Pressure Level at 1m (dBA) | 52 |
| | Power Level (dBA) ⁴ | 61 |
| WATER DATA | Pipework Size (mm) | 22 |
| | Flow Rate (l/min) | 14 |
| | Water Pressure Drop (kPa) | 12.0 |
| DIMENSIONS (mm) | Width | 950 |
| | Depth | 330+30*7 |
| | Height | 943 |
| WEIGHT (kg) | | 71 |
| ELECTRICAL DATA | Electrical Supply | 220-240v, 50Hz |
| | Phase | Single |
| | Nominal Running Current [MAX] (A) ⁵ | 4.64 [13] |
| | Fuse Rating - MCB Sizes (A) ⁶ | 16 |
| REFRIGERANT CHARGE (kg) / CO ₂ EQUIVALENT (t) | R290 (GWP 3) | 2.0 / 1.35 |

NOTES:

*1 Combination with E*PT20X Cylinder

*2 Under normal heating conditions at outdoor temp: -7°CDB / -8°CWB, outlet water temp 35°C, inlet water temp 30°C.

*3 Under normal heating conditions at outdoor temp: 7°CDB / 6°CWB, outlet water temp 55°C, inlet water temp 47°C as tested to BS EN14511.

*4 Sound power level tested to BS EN12102.

*5 Under nominal heating conditions at outdoor temp: 7°C, outlet water temp: 35°C.

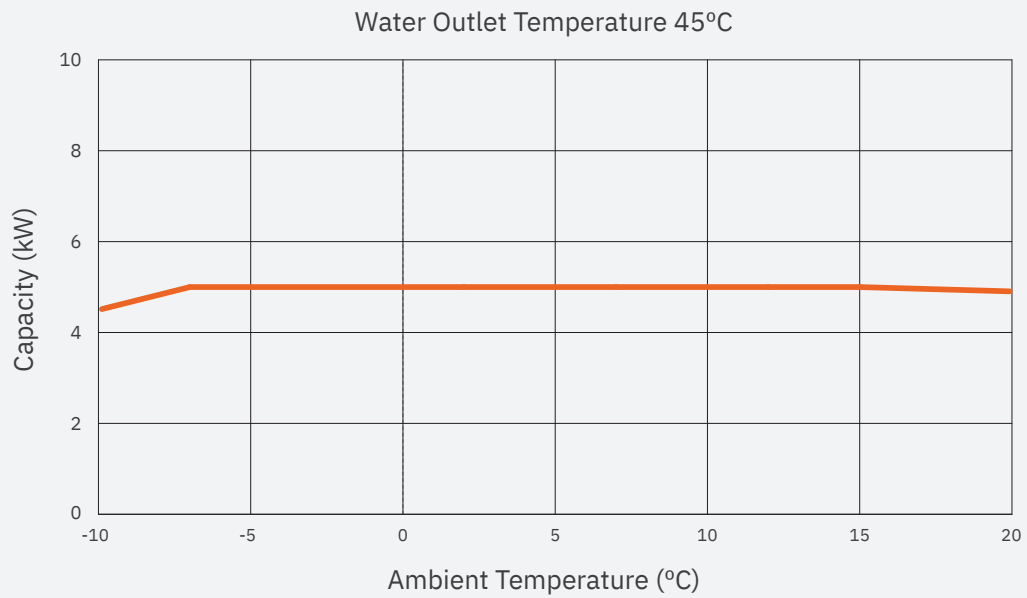
*6 MCB Sizes BS EN60898-2 & BS EN60947-2.

*7 Grille.

η_s is the seasonal space heating energy efficiency (SSH/E) η_{wh} is the water heating energy efficiency



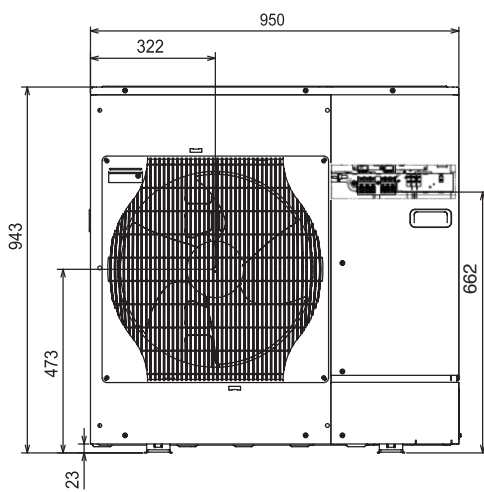
PUZ-WM50VHA(-BS) Nominal Heating Capacity



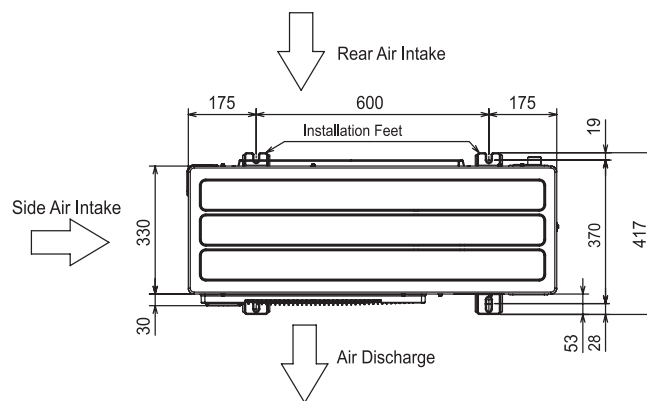
PUZ-WM50VHA(-BS) Dimensions

All dimensions (mm)

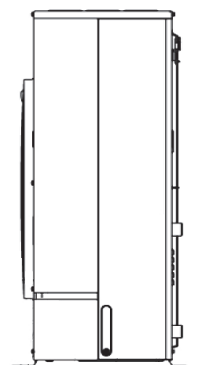
FRONT VIEW



UPPER VIEW



SIDE VIEW



Ecodan R32

Monobloc Air Source Heat Pump

(6, 8.5 & 11.2kW)



Key Features:

- A+++ heating efficiency (Range A+++ to D)
- Ultra quiet noise levels
- Maintains full heating capacity at low temperatures
- Zero carbon solution

Key Benefits:

- Ultra low running cost
- Flexible product placement
- Confident and quick product selection
- Help to tackle the climate crisis
- Remote control, monitoring, maintenance and technical support



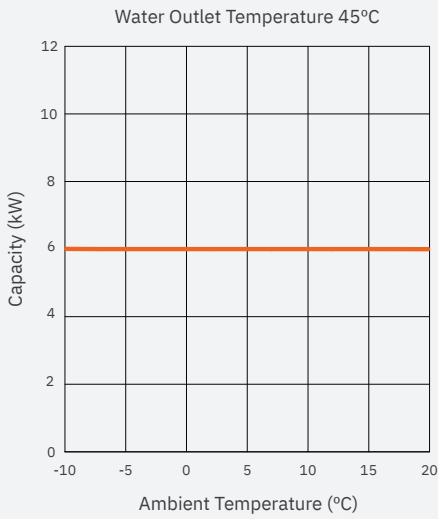
| Outdoor Unit | | PUZ-WM60VAA(-BS) | PUZ-WM85VAA(-BS) | PUZ-WM85YAA(-BS) | PUZ-WM112VAA(-BS) | PUZ-WM112YAA(-BS) |
|---|--|------------------|------------------|------------------|-------------------|-------------------|
| HEAT PUMP SPACE HEATER - 55°C | ErP Rating | A++ | A++ | A++ | A++ | A++ |
| | η_s | 142% | 139% | 139% | 134% | 134% |
| | SCOP (MCS) | 3.57 | 3.48 | 3.46 | 3.34 | 3.31 |
| HEAT PUMP SPACE HEATER - 35°C | ErP Rating | A+++ | A+++ | A+++ | A+++ | A+++ |
| | η_s | 190% | 193% | 193% | 191% | 191% |
| | SCOP (MCS) | 4.81 | 4.84 | 4.81 | 4.74 | 4.70 |
| HEAT PUMP COMBINATION HEATER - Large Profile ¹ | ErP Rating | A+ | A+ | A+ | A+ | A+ |
| | η_{wh} | 145% | 145% | 145% | 148% | 148% |
| HEATING ² (A-7/W35) | Capacity (kW) | 6.0 | 8.5 | 8.5 | 11.2 | 11.2 |
| | Power Input (kW) | 1.88 | 3.27 | 3.27 | 3.73 | 3.73 |
| | COP | 3.20 | 2.60 | 2.60 | 3.00 | 3.00 |
| | OPERATING AMBIENT TEMPERATURE (°C DB) | -20 ~ +35 | -20 ~ +35 | -25 ~ +35 | -25 ~ +35 | -25 ~ +35 |
| SOUND DATA ³ | Pressure Level at 1m (dBA) | 45 | 45 | 45 | 45 | 45 |
| | Power Level (dBA) ⁴ | 58 | 58 | 58 | 60 | 60 |
| WATER DATA | Pipework Size (mm) | 22 | 28 | 28 | 28 | 28 |
| | Flow Rate (l/min) | 17 | 24 | 24 | 32 | 32 |
| | Water Pressure Drop (kPa) | 8.0 | 15.0 | 15.0 | 24.0 | 24.0 |
| DIMENSIONS (mm) | Width | 1050 | 1050 | 1050 | 1050 | 1050 |
| | Depth | 480 | 480 | 480 | 480 | 480 |
| | Height | 1020 | 1020 | 1020 | 1020 | 1020 |
| WEIGHT (kg) | | 98 | 98 | 111 | 119 | 119 |
| ELECTRICAL DATA | Electrical Supply | 220-240v, 50Hz | 220-240v, 50Hz | 400v, 50Hz | 220-240v, 50Hz | 400v, 50Hz |
| | Phase | Single | Single | Three | Single | Three |
| | Nominal Running Current [MAX] (A) ⁵ | 5.68 [13] | 9.1 [22] | 2.9 [11.5] | 10.9 [28] | 3.6 [13] |
| | Fuse Rating - MCB Sizes (A) ⁶ | 16 | 25 | 16 | 32 | 16 |
| REFRIGERANT CHARGE (kg) / CO ₂ EQUIVALENT (t) | R290 (GWP 3) | 2.2 / 1.49 | 2.2 / 1.49 | 2.2 / 1.49 | 3.0 / 2.03 | 3.0 / 2.03 |

NOTES:

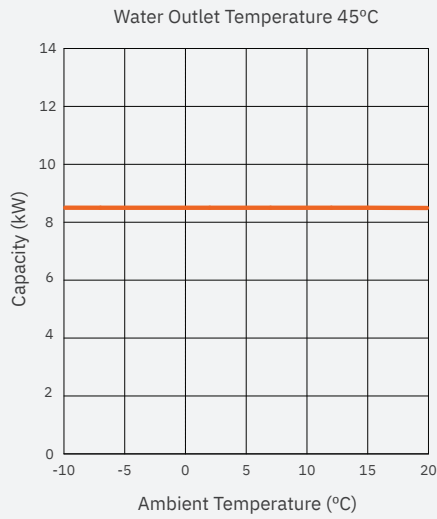
- *1 Combination with E*PT20X Cylinder
 - *2 Under normal heating conditions at outdoor temp: -7°CDB / -8°CWB, outlet water temp 35°C, inlet water temp 30°C.
 - *3 Under normal heating conditions at outdoor temp: 7°CDB / 6°CWB, outlet water temp 55°C, inlet water temp 47°C as tested to BS EN14511.
 - *4 Sound power level tested to BS EN12102.
 - *5 Under nominal heating conditions at outdoor temp: 7°C, outlet water temp: 35°C.
 - *6 MCB Sizes BS EN60898-2 & BS EN60947-2.
- η_s is the seasonal space heating energy efficiency (SSHEE) η_{wh} is the water heating energy efficiency

PUZ-WM60-112VAA/YAA Nominal Heating Capacities

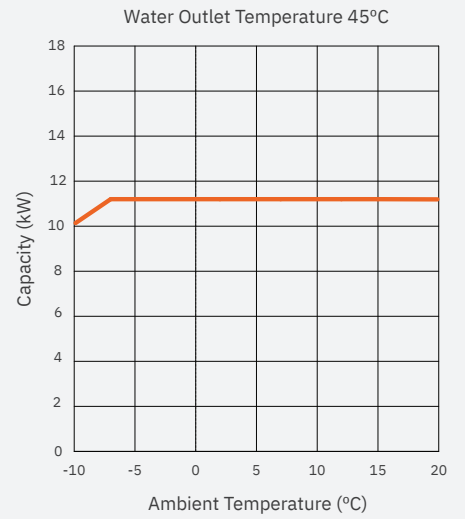
PUZ-WM60VAA(-BS)



PUZ-WM85VAA(-BS)



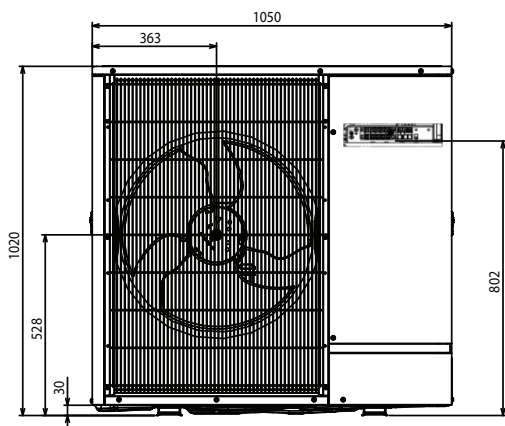
PUZ-WM112VAA(-BS)



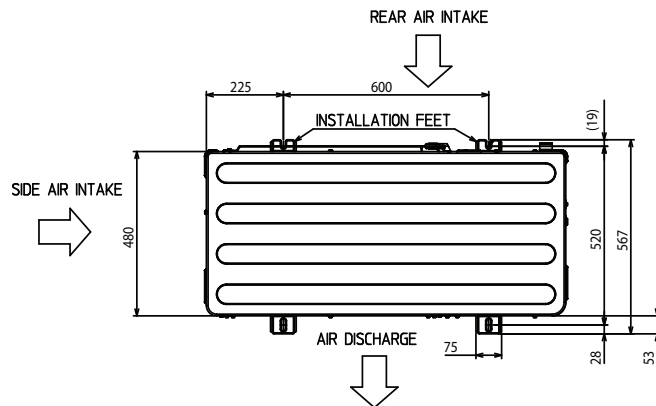
PUZ-WM60-112VAA/YAA Dimensions

All dimensions (mm)

FRONT VIEW



UPPER VIEW



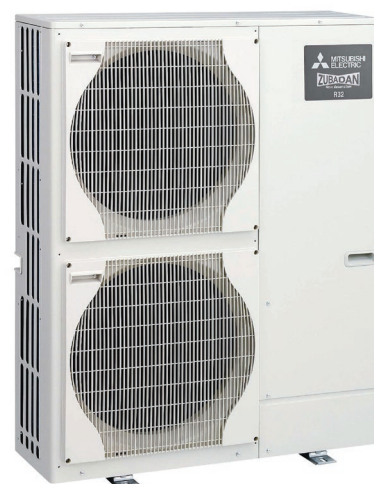
SIDE VIEW



Ecodan R32

Monobloc Air Source Heat Pump

(14kW)



Key Features:

- A+++ heating efficiency (Range A+++ to D)
- Compact design
- Maintains full heating capacity at low temperatures
- Zero carbon solution

Key Benefits:

- Ultra low running cost
- Minimal installation space required
- Confident and quick product selection
- Help to tackle the climate crisis
- Remote control, monitoring, maintenance and technical support



Manufactured in the UK



037-0035-20

| Outdoor Unit | | PUZ-HWM140VHA(-BS) | PUZ-HWM140YHA(-BS) |
|---|--|------------------------|------------------------|
| HEAT PUMP SPACE HEATER - 55°C | ErP Rating | A++ (Range A+++ to D) | A++ (Range A+++ to D) |
| | η_s | 131% | 131% |
| | SCOP (MCS) | 3.26 | 3.24 |
| HEAT PUMP SPACE HEATER - 35°C | ErP Rating | A+++ (Range A+++ to D) | A+++ (Range A+++ to D) |
| | η_s | 176% | 176% |
| | SCOP (MCS) | 4.33 | 4.3 |
| HEAT PUMP COMBINATION HEATER - Large Profile ¹ | ErP Rating | A+ (Range A+ to F) | A+ (Range A+ to F) |
| | η_{wh} | 130% | 130% |
| HEATING ² | Capacity (kW) | 14 | 14 |
| (A-7/W35) | Power Input (kW) | 5.71 | 5.71 |
| | COP | 2.45 | 2.45 |
| OPERATING AMBIENT TEMPERATURE (°C DB) | | -28 ~ +35 | -28 ~ +35 |
| SOUND DATA ³ | Pressure Level at 1m (dBA) | 53 | 53 |
| | Power Level (dBA) ⁴ | 67 | 67 |
| | Pipework Size (mm) | 28 | 28 |
| WATER DATA | Flow Rate (l/min) | 40.1 | 40.1 |
| | Water Pressure Drop (kPa) | 20 | 20 |
| | DIMENSIONS (mm) | Width | 1020 |
| Depth | | 330 + 30 ⁷ | 330 + 30 ⁷ |
| Height | | 1350 | 1350 |
| WEIGHT (kg) | | 132 | 143 |
| ELECTRICAL DATA | Electrical Supply | 220-240v, 50Hz | 380-415v, 50Hz |
| | Phase | Single | Three |
| | Nominal Running Current [MAX] (A) ⁵ | 13.8 [35] | 4.5 [13] |
| | Fuse Rating - MCB Sizes (A) ⁶ | 40 | 16 |
| REFRIGERANT CHARGE (kg) / CO ₂ EQUIVALENT (t) | R290 (GWP 3) | 3.3 | 3.3 |

NOTES:

*1 Combination with E*PT20X Cylinder

*2 Under normal heating conditions at outdoor temp: -7°CDB / -8°CWB, outlet water temp 35°C, inlet water temp 30°C.

*3 Under normal heating conditions at outdoor temp: 7°CDB / 6°CWB, outlet water temp 55°C, inlet water temp 47°C as tested to BS EN14511.

*4 Sound power level tested to BS EN12102.

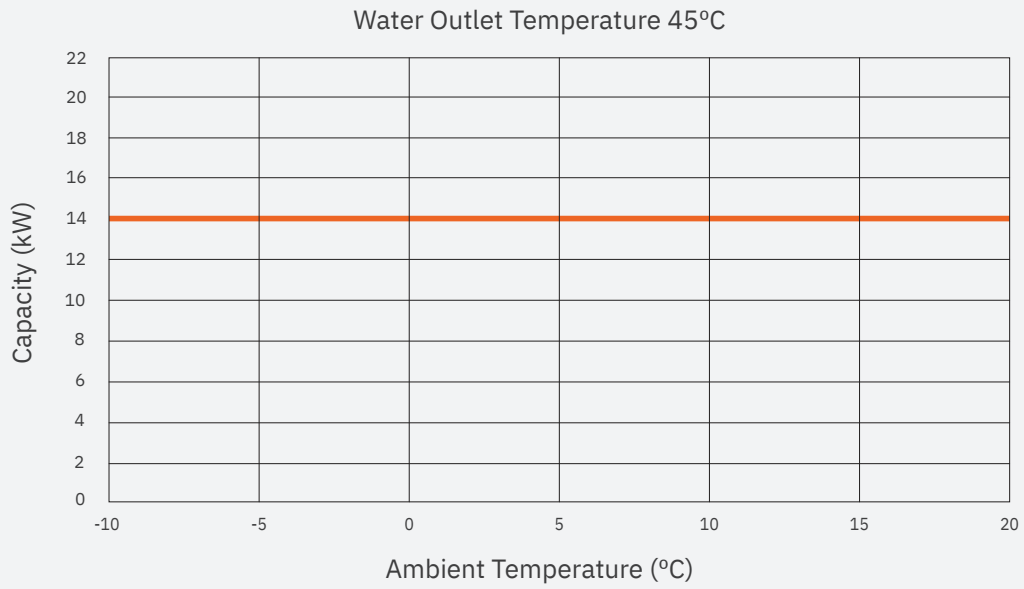
*5 Under nominal heating conditions at outdoor temp: 7°C, outlet water temp: 35°C.

*6 MCB Sizes BS EN60898-2 & BS EN60947-2.

*7 Grille.

η_s is the seasonal space heating energy efficiency (SSHEE) η_{wh} is the water heating energy efficiency

PUZ-HWM140VHA/YHA Nominal Heating Capacity



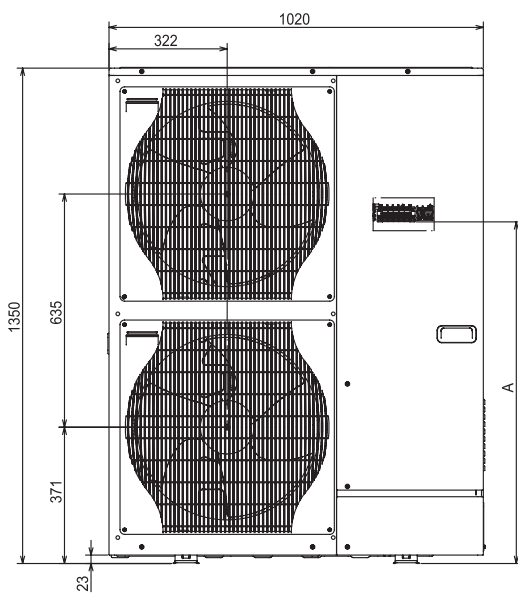
PUZ-HWM140VHA/YHA Dimensions

All dimensions (mm)

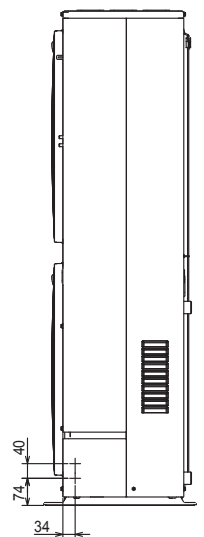
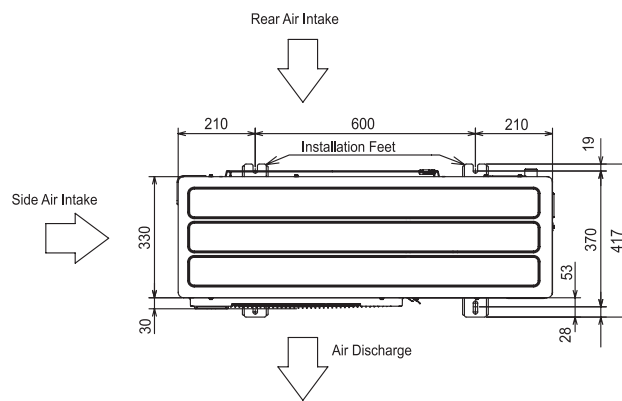
FRONT VIEW

UPPER VIEW

SIDE VIEW



| | A |
|-----|------|
| VHA | 1079 |
| YHA | 931 |



Coastal Protection Models (-BS)

The Ecodan coastal models are designed to protect against the corrosive effects of environments that are in close proximity to the sea

By enhancing the corrosion protection of key components, we can ensure that even in aggressive coastal areas, Ecodan will continue to provide low cost renewable heating for years to come.

Key Features:

- Available for all models
- No change in performance characteristics

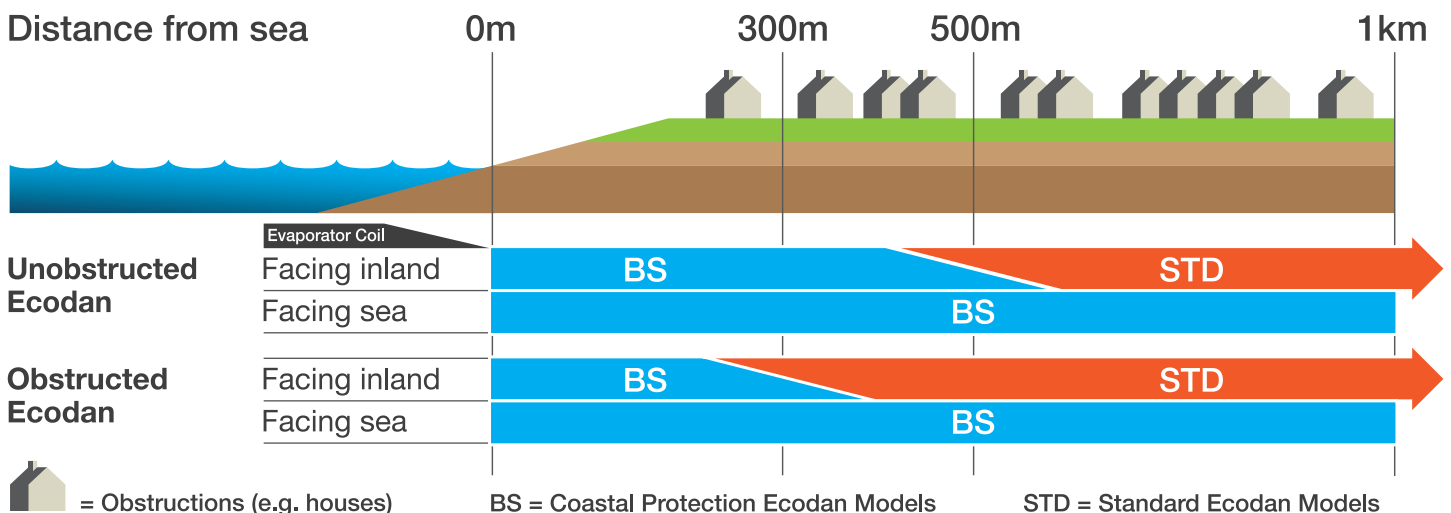
It is well known that salt spray from breaking waves and onshore winds significantly accelerates the corrosion of metal components. The spray from the ocean salts, which are primarily sodium chloride (table salt), can accumulate on metal surfaces and accelerate the electrochemical reactions that cause corrosion. This salt build up combined with the high humidity common to all coastal areas adds to the corrosion rate of steel and other common metals.

The longer a surface remains damp during normal daily fluctuations in humidity, the higher the corrosion rate. Onshore winds carry both salt and moisture inland, providing the perfect environment for corrosion to set in. The standard Ecodan models come with excellent corrosion resistance. However, the Coastal Protection Ecodan models go a step further by treating external panels with acrylic resin and also ensuring other key elements of the unit are further protected from these aggressive environments.

Application Guide

Tips for coastal installations

- If possible avoid siting the Ecodan in direct exposure to sea spray
- Ensure rain water is able to fall onto the Ecodan and avoid placement directly under building eaves
- Ensure horizontal installation for good drainage
- Regular inspections and washing of unit with fresh water is recommended, Any scratches should be repaired as soon as possible



Ecodan Cylinders

The Ecodan range of Packaged and Pre-Plumbed Cylinders offer a highly adaptable heating solution for a variety of homes. Designed specifically to operate with Ecodan heat pumps, the cylinders are offered in a number of models.

A Packaged option with a white goods finish and a Pre-plumbed option for ease of installation, available in slimline and standard variants with the flexibility to meet most installation requirements.



FTC7 Packaged Cylinder for Ecodan Monobloc Units

R290 R32



Key Features:

- A+ hot water efficiency (Range A+ to F)
- Stylish and modern aesthetics
- Packaged hot water, heating and controls
- Colour touch screen control

Key Benefits:

- Minimised energy consumption
- Flexible product placement
- Plug and play simple installation
- Intuitive user friendly operation
- Remote control, monitoring, maintenance and technical support



Manufactured in the UK

| Indoor Unit | | EHPT20X-MEHEW | |
|--|--|--|----------------|
| NOMINAL HOT WATER VOLUME (LITRES) | | 200 | |
| HEAT PUMP COMBINATION HEATER - Large Profile (Average Climate) | | ErP Rating (Range A+ to F) | |
| OPERATING AMBIENT TEMPERATURE (°C DB) | | 0 ~ +35°C (RH<80%) | |
| SOUND PRESSURE LEVEL AT 1M (dBA) | | 28 | |
| WATER DATA | Flow Rate (l/min) - with R32 Heat Pump 5 / 6 / 8.5 / 11.2 / 14kW | 14 / 17 / 24 / 32 / 40 | |
| | - with R290 Heat Pump 5 / 6 / 8.5 / 10 / 12kW | 14 / 17 / 27 / 34 / 34 | |
| | Primary Circuit Pump | Grundfos UPM3 15-75 130 | |
| | Sanitary Hot Water Pump | Grundfos UPSO 15-60 130 | |
| Connection Size (mm) Heating / DHW | | G1 / G3/4 | |
| WATER SAFETY DEVICES | Heating Water Circuit | Control Thermistor (°C) | 80 |
| | | Flow Sensor (minimum flow 5L/min) | Supplied |
| | DHW Cylinder | Control Thermistor (°C) | 75 |
| Temp and Pressure Relief Valve (°C)/ (MPa) (Bar) | | 90 / 0.7 (7) | |
| DIMENSIONS (mm) | Width | 595 | |
| | Depth | 680 | |
| | Height | 1600 | |
| WEIGHT EMPTY / FULL (kg) | | 81 / 287 | |
| ELECTRICAL DATA | Control Board - <i>optionally powered by outdoor unit</i> | Electrical Supply | 220-240v, 50Hz |
| | | Phase | Single |
| | | Fuse Rating - MCB Sizes (A) ¹ | 10 |
| | Immersion Heater | Electrical Supply | 220-240v, 50Hz |
| Phase | | Single | |
| Capacity (kW) | | 3 | |
| Max Running Current (A) | | 13 | |
| Fuse Rating - MCB Sizes (A) ¹ | | 16 | |
| MECHANICAL ZONES | | DHW and 1 Heating Zone ² | |
| OPTIONAL SIMPLIFIED WIRELESS ROOM THERMOSTAT AND WIRELESS RECEIVER | | PAR-WT60R-E and PAR-WR61R-E Receiver | |

NOTES:

¹ MCB Sizes BS EN60898-2 & BS EN60947-2.

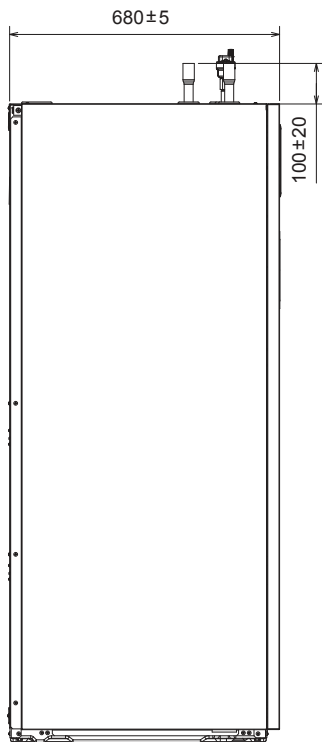
² Optional 2 zone accessory pack available.

Cylinder includes: Flow Temperature Controller (FTC7) with Main Controller and Temperature Sensors, Pumps & Valves for Zone 1 and DHW use, Flow Sensor, Plate Heat Exchanger, Scale Trap and 3kW Immersion Heater.

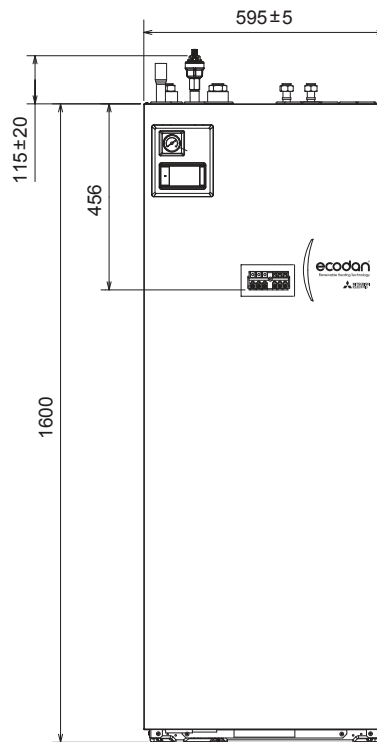
EHPT20X-MEHEW Dimensions

All dimensions (mm)

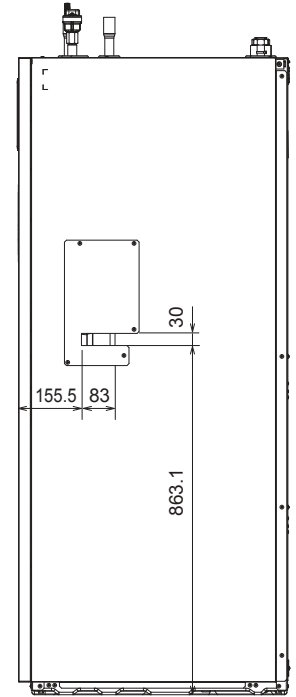
LEFT VIEW



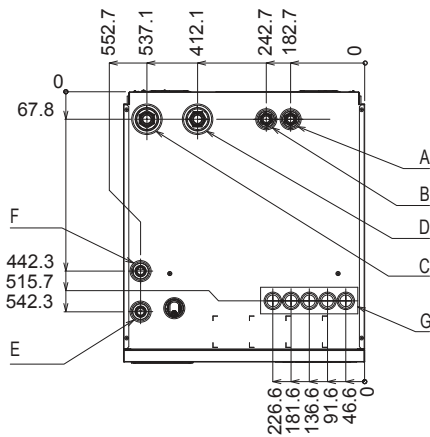
FRONT VIEW



RIGHT VIEW



UPPER VIEW



| Letter | Pipe Description | Connection Size/Type |
|--------|---------------------------------|----------------------|
| A | HW outlet connection | G3/4"/Compression |
| B | Cold water inlet connection | G3/4"/Compression |
| C | Space heating return connection | G1"/Compression |
| D | Space heating flow connection | G1"/Compression |
| E | Flow from heat pump connection | G1"/Compression |
| F | Return to heat pump connection | G1"/Compression |
| G | Electrical cable inlets | |

FTC7 Pre-Plumbed Cylinders for Ecodan Monobloc Units

Slimline

R290 **R32**



Key Features:

- Pre-Plumbed and Pre-Wired
- DHW Plate Heat Exchanger combined with scale trap
- Low Loss Header
- Colour touch screen control

Key Benefits:

- Plug and play simple installation
- Excellent hot water recovery times
- Automatic heat pump flow rate regulation
- Intuitive user friendly operation
- Remote control, monitoring, maintenance and technical support



Manufactured in the UK

| Indoor Unit | | EHPT15X-UKHLEWS | | EHPT17X-UKHLEWS | |
|---|--|---|-------------------------------|-------------------|----|
| NOMINAL HOT WATER VOLUME (LITRES) | | 150 | | 170 | |
| ErP RATING (Range A+ to F) | | C (Range A+ to F) | | C (Range A+ to F) | |
| HEAT LOSS (kWh/24hrs) | | 1.40 | | 1.59 | |
| HEAT LOSS (W) | | 58 | | 66 | |
| WATER | Flow rate (l/min) - with R32 Heat Pump 5 / 6 / 8.5kW | 14 / 17 / 24 | | 14 / 17 / 24 | |
| | | - with R290 Heat Pump 5 / 6 / 8.5kW | | 14 / 17 / 23 | |
| | Primary Circuit Pump | Grundfos UPM4L 25-75 130AZA | | | |
| | Heating Circuit Pump | Grundfos UPM3 AUTO 25-70 130 | | | |
| | Sanitary Hot Water Pump | Grundfos UPSO 15-60 CIL2 | | | |
| | Connection Size (mm) Heating / DHW | 22 / 22 | | 22 / 22 | |
| Charge Pressure (MPa (Bar)) | 0.35 (3.5) | | 0.35 (3.5) | | |
| WATER SAFETY | Water Circuit | Control Thermistor (°C) | | 80 | |
| | | DHW Cylinder | DHW Expansion Vessel (Litres) | | 12 |
| | Control Thermistor (°C) | | 75 | | |
| | Over Temperature Cut-Out (°C) | | 80 +/- 5 | | |
| | Temp and Pressure Relief Valve (°C) / (MPa (Bar)) | | 90 / 1.0 (10.0) | | |
| | Expansion Relief Valve (Cold) (MPa (Bar)) | | 0.8 (8) | | |
| DIMENSIONS (mm) | Width | | 676 | | |
| | Depth | | 654 | | |
| | Height | | 1516 | | |
| WEIGHT EMPTY / FULL (kg) | | 59/209 | | 63/233 | |
| CYLINDER MATERIAL | Cylinder | Cylinder Material Duplex stainless steel | | | |
| | Insulation | Insulation Type CFC / HCFC-free flame-retardant expanded Polyurethane | | | |
| | | Insulation Thickness (mm) | | 50 | |
| | | GWP of Insulation | | 3.1 | |
| | | ODP of Insulation | | 0 | |
| ELECTRICAL DATA | Control Board - <i>optionally powered by outdoor unit</i> | Electrical Supply | | 220-240v ~, 50Hz | |
| | | Phase | | Single | |
| | | Fuse Rating - MCB Sizes (A) ¹ | | 16 | |
| | | Electrical Supply | | 220-240v ~, 50Hz | |
| | Immersion Heater | Phase | | Single | |
| | | Capacity (kW) | | 3 | |
| | | Max Running Current (A) | | 13 | |
| | | Fuse Rating - MCB Sizes (A) | | 16 | |
| MECHANICAL ZONES | | DHW and 1 Heating Zone ² | | | |
| OPTIONAL WIRELESS ROOM THERMOSTAT AND WIRELESS RECEIVER | | PAR-WT60R-E Controller and PAR-WR61R-E Receiver | | | |

NOTES:

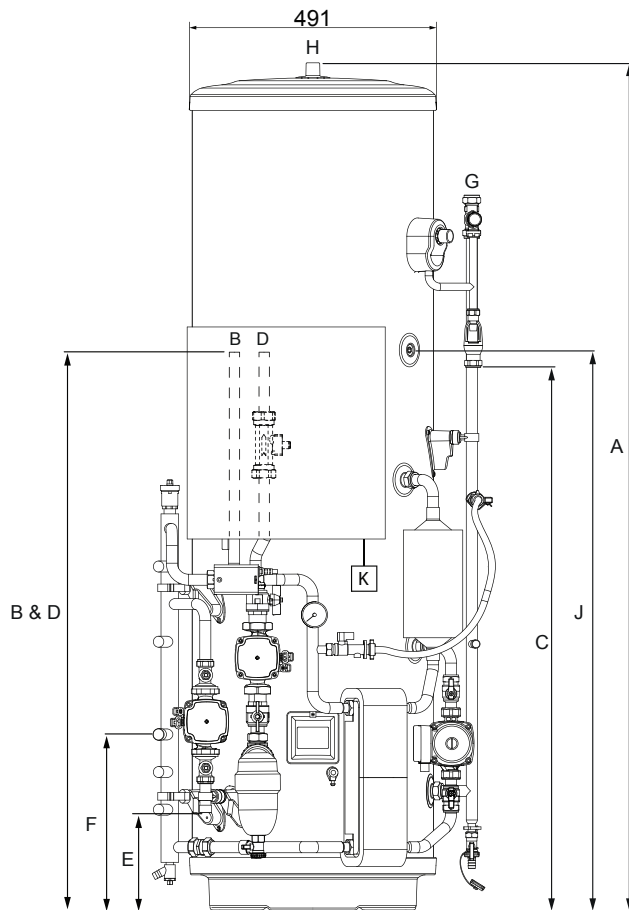
¹ MCB Sizes BS EN60898-2 & BS EN60947-2. ² Optional 2 zone accessory pack available.

Cylinder includes: Flow Temperature Controller (FTC7) with Main Controller and Temperature Sensors, Pumps & Valves for Zone 1 and DHW use, Flow Sensor, Plate Heat Exchanger, Scale Trap and 3kW Immersion Heater.

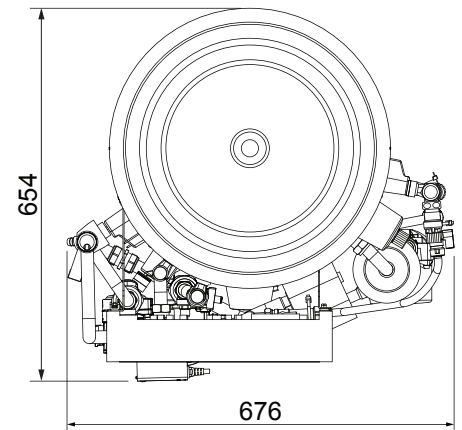
EHPT15-17X-UKHLEWS Dimensions

All dimensions (mm)

FRONT VIEW



UPPER VIEW



| Letter | Pipe Description | Connection Size/Type |
|--------|---|-------------------------------|
| A | Overall height | |
| B | Heat pump flow connection | 22mm O/D Copper |
| C | Tundish outlet connection | 22mm Compression |
| D | Heat pump return connection | 22mm O/D Copper |
| E | Heating zone 1 circuit flow connection | 22mm O/D Copper |
| F | Heating zone 1 circuit return connection | 22mm O/D Copper |
| G | Cold water inlet connection | 22mm Compression |
| H | Hot water outlet connection | 22mm Compression / 3/4" BSP M |
| J | THW5A sensor pocket | |
| K | Wi-Fi adaptor (included, installer to locate and mount) | |

| Capacity | 150 | 170 |
|----------|-------------------------------|------|
| A | 516 | 690 |
| B | 1127 | 1127 |
| C | 909 | 1083 |
| D | 1127 | 1127 |
| E | 194 | 194 |
| F | 350 | 350 |
| J | 943 | 1117 |
| K | Installer to locate and mount | |

FTC7 Pre-Plumbed Cylinders for Ecodan Monobloc Units

Standard

R290 **R32**



Key Features:

- Pre-Plumbed and Pre-Wired
- DHW Plate Heat Exchanger combined with scale trap
- Low Loss Header
- Colour touch screen control

Key Benefits:

- Plug and play simple installation
- Excellent hot water recovery times
- Automatic heat pump flow rate regulation
- Intuitive user friendly operation
- Remote control, monitoring, maintenance and technical support



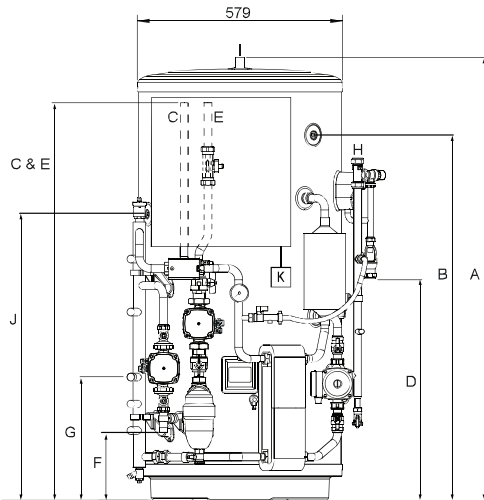
Manufactured in the UK

| Indoor Unit | | EHPT15X-UKHEWS | EHPT17X-UKHEWS | EHPT21X-UKHEWS | EHPT21X-UKHEWL | EHPT25X-UKHEWL | EHPT30X-UKHEWL | |
|---|--|---|---|----------------------|-----------------------|-----------------------|----------------------|--|
| NOMINAL HOT WATER VOLUME (LITRES) | | 150 | 170 | 210 | 210 | 250 | 300 | |
| ErP RATING (Range A+ to F) | | B | B | C | C | C | C | |
| HEAT LOSS (kWh/24hrs) | | 1.15 | 1.23 | 1.53 | 1.53 | 1.80 | 2.09 | |
| HEAT LOSS (W) | | 48 | 51 | 64 | 65 | 75 | 86 | |
| WATER | | Flow rate (l/min) - with R32 Heat Pump 5 / 6 / 8.5 / 11.2 / 14kW - with R290 Heat Pump 5 / 6 / 8.5 / 10 / 12kW | | | | | | |
| | | 14 / 17 / 24 / - / - | 14 / 17 / 24 / - / - | 14 / 17 / 24 / - / - | - / 17 / 24 / 32 / 40 | - / 17 / 24 / 32 / 40 | - / - / 24 / 32 / 40 | |
| | | 14 / 17 / 27 / - / - | 14 / 17 / 27 / - / - | 14 / 17 / 27 / - / - | - / 17 / 27 / 34 / 34 | - / 17 / 27 / 34 / 34 | - / - / 27 / 34 / 34 | |
| Primary Circuit Pump | | Grundfos UPM4L 25-75 130AZA | | | | | | |
| Heating Circuit Pump | | Grundfos UPM3 AUTO 25-70 130 | | | | | | |
| Sanitary Hot Water Pump | | Grundfos UPSO 15-60 CIL2 | | | | | | |
| Connection Size (mm) Heating / DHW | | 22 / 22 | | 22 / 22 | | 28 / 22 | | |
| Charge Pressure (MPa (Bar)) | | 0.35 (3.5) | | 0.35 (3.5) | | 0.35 (3.5) | | |
| WATER SAFETY | Water Circuit DHW Cylinder | Control Thermistor (°C) | 80 | 80 | 80 | 80 | 80 | |
| | | DHW Expansion Vessel (Litres) | 12 | 18 | 18 | 18 | 24 | |
| | | Control Thermistor (°C) | 75 | 75 | 75 | 75 | 75 | |
| | | Over Temperature Cut-Out (°C) | 80 +/- 5 | 80 +/- 5 | 80 +/- 5 | 80 +/- 5 | 80 +/- 5 | |
| | | Temp and Pressure Relief Valve (°C) / (MPa (Bar)) | 90 / 1.0 (10) | 90 / 1.0 (10) | 90 / 1.0 (10) | 90 / 1.0 (10) | 90 / 1.0 (10) | |
| | | Expansion Relief Valve (Cold) (MPa (Bar)) | 0.8 (8) | 0.8 (8) | 0.8 (8) | 0.8 (8) | 0.8 (8) | |
| DIMENSIONS (mm) | | Width | 730 | 730 | 730 | 748 | 748 | |
| | | Depth | 756 | 756 | 756 | 755 | 755 | |
| | | Height | 1131 | 1257 | 1509 | 1509 | 1761 | |
| WEIGHT EMPTY / FULL (kg) | | 55 / 205 | 58 / 228 | 64 / 274 | 68 / 278 | 74 / 324 | 82 / 382 | |
| CYLINDER MATERIAL | Cylinder | Duplex stainless steel | | | | | | |
| | | CFC / HCFC-free flame-retardant expanded Polyurethane | | | | | | |
| | Insulation | Insulation Type | CFC / HCFC-free flame-retardant expanded Polyurethane | | | | | |
| | | Insulation Thickness (mm) | 60 | 60 | 60 | 60 | 60 | |
| | | GWP of Insulation | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | |
| ODP of Insulation | 0 | 0 | 0 | 0 | 0 | | | |
| ELECTRICAL DATA | Control Board - <i>optionally powered by outdoor unit</i> | Electrical Supply | 220-240v, 50Hz | 220-240v, 50Hz | 220-240v, 50Hz | 220-240v, 50Hz | 220-240v, 50Hz | |
| | | Phase | Single | Single | Single | Single | Single | |
| | | Fuse Rating - MCB Sizes (A) ^{*1} | 16 | 16 | 16 | 16 | 16 | |
| | | Electrical Supply | 220-240v, 50Hz | 220-240v, 50Hz | 220-240v, 50Hz | 220-240v, 50Hz | 220-240v, 50Hz | |
| | Immersion Heater | Phase | Single | Single | Single | Single | Single | |
| | | Capacity (kW) | 3 | 3 | 3 | 3 | 3 | |
| | | Max Running Current (A) | 13 | 13 | 13 | 13 | 13 | |
| | | Fuse Rating - MCB Sizes (A) | 16 | 16 | 16 | 16 | 16 | |
| MECHANICAL ZONES | | DHW and 1 Heating Zone*2 | | | | | | |
| OPTIONAL WIRELESS ROOM THERMOSTAT AND WIRELESS RECEIVER | | PAR-WT60R-E Controller and PAR-WR61R-E Receiver | | | | | | |
| NOTES: | | | | | | | | |
| *1 MCB Sizes BS EN60898-2 & BS EN60947-2. *2 Optional 2 zone accessory pack available. | | | | | | | | |
| Cylinder includes: Flow Temperature Controller (FTC7) with Main Controller and Temperature Sensors, Heat Pump Filter, Pumps & Valves for Primary Circuit and Zone 1 and DHW use, Flow Sensor, Plate Heat Exchanger, Scale Trap, 3kW Immersion Heater, Expansion Vessel, Diverter Valve and Low Loss Header. | | | | | | | | |

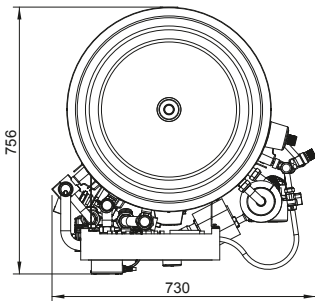
EHPT15-30X-UKHEWS/L Dimensions

All dimensions (mm)

FRONT VIEW



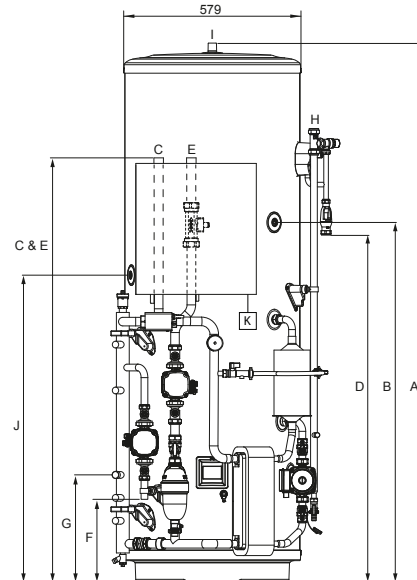
UPPER VIEW



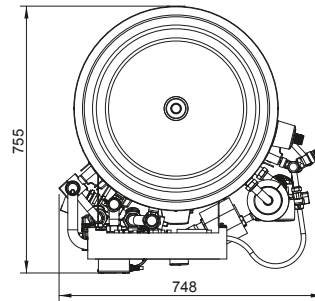
EHPT21-30X-UKHEWL Dimensions

All dimensions (mm)

FRONT VIEW



UPPER VIEW



| Letter | Pipe Description | Connection Size/Type |
|--------|--|------------------------------------|
| A | Overall height | |
| B | Secondary return tapping (Not fitted to 150L and 170L) | |
| C | Heat pump flow connection - 150/170/210(S) Heat pump flow connection - 210(L)/250/300 | 22mm O/D Copper 28mm O/D Copper |
| D | Tundish outlet connection | 22mm Compression |
| E | Heat pump return connection - 150/170/210(S) Heat pump return connection - 210(L)/250/300 | 22mm O/D Copper 28mm O/D Copper |
| F | Heating zone 1 circuit flow connection | 22mm O/D Copper |
| G | Heating zone 1 circuit return connection | 22mm O/D Copper |
| H | Cold water inlet connection | 22mm Compression |
| I | Hot water outlet connection | 22mm Compression / 3/4" BSP M |
| J | THW5A sensor pocket | |
| K | Wi-Fi adaptor (included, installer to locate and mount) | |

| Capacity | 150 | 170 | 210 (S) | 210 (L) | 250 | 300 |
|----------|-------------------------------|------------|---------|---------|------|------|
| A | 1131 | 1257 | 1509 | 1509 | 1761 | 2075 |
| B | Not Fitted | Not Fitted | 1050 | 1050 | 1175 | 1385 |
| C | 1122 | 1122 | 1122 | 1370 | 1370 | 1370 |
| D | 505 | 630 | 880 | 880 | 1136 | 1450 |
| E | 1122 | 1122 | 1122 | 1370 | 1370 | 1370 |
| F | 194 | 194 | 194 | 270 | 270 | 270 |
| G | 350 | 350 | 350 | 350 | 350 | 350 |
| J | 675 | 815 | 925 | 925 | 1005 | 1193 |
| K | Installer to locate and mount | | | | | |

Ecodan Hydrodan

R32 Water to Water Heat Pump

The Ecodan Hydrodan is a water to water heat pump, designed to produce heating and hot water in residential apartments, and connect to a 5th generation ambient temperature heat network deployed throughout the building.



Certificate Number: 037-0101-22
Product (Type): Heat Pumps (Water/Water)
Product Reference: EHWT17D-MHEDW

Key Features & Benefits:

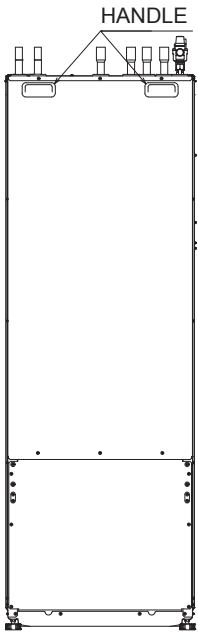
- Removable heat pump module - simple for repairs
- Highly efficient heating and hot water production - low running costs for owners
- Low quantity R32 refrigerant - low environmental impact
- PIC valve network control - simple pressure balancing and flow control
- Ultra-low noise output - no disturbance for owners

| Indoor Unit | | | EHWT17D-MHEDW | |
|--------------------------|--|----------------------------|---------------|-------------------|
| CAPACITY INFORMATION | 20 / W35 | Heating Capacity (min-max) | kW | 1.2 - 8.0 |
| | | Power Input (min-max) | kW | 0.3 - 1.0 |
| | | COP (Nom.) | - | 9.2 |
| | L20 / W45 | Heating Capacity (min-max) | kW | 1.1 - 7.5 |
| | | Power Input (min-max) | kW | 0.5 - 1.3 |
| | | COP (Nom.) | - | 6.3 |
| | L20 / W55 (DHW) | Heating Capacity (DHW) | kW | 6.3 |
| | | Power Input (DHW) | kW | 1.3 |
| | | COP (DHW) | - | 5.0 |
| L25 / W35 | Heating Capacity (min-max) | kW | 1.5 - 9.3 | |
| | Power Input (min-max) | kW | 0.2 - 1.0 | |
| | COP (Nom.) | - | 11.3 | |
| L25 / W45 | Heating Capacity (min-max) | kW | 1.3 - 8.5 | |
| | Power Input (min-max) | kW | 0.4 - 1.3 | |
| | COP (Nom.) | - | 7.8 | |
| L25 / W55 (DHW) | Heating Capacity (DHW) | kW | 6.8 | |
| | Power Input (DHW) | kW | 1.5 | |
| | COP (DHW) | - | 5.4 | |
| | Heating Circuit Flow Rate (min - max) | | l/min | 7.1 - 27.7 |
| LOOP INFORMATION | Control Type | | - | PICV + Actuator |
| | Inlet Temperature Range (min - max) | | °C | 10 - 30 |
| | Flow Rate (min - max) | | l/min | 7.2 - 24 |
| | Maximum Loop Pressure Rating | | bar | 10 |
| | Pipe Connection Size | | mm | 28 |
| ELECTRICAL INFORMATION | Voltage/Phase/Frequency | | v/ph/Hz | 230v/1ph/50Hz |
| | Fuse Rating - Heat Pump/Immersion Heater | | A | 16/20 |
| | Number of Connections | | - | 2 |
| | Immersion Rating (Tank) | | kW | 3 |
| | Start up Current | | A | 3.1 |
| GENERAL INFORMATION | Unit Dimensions (WxDxH) | | mm | 595 x 680 x 1750 |
| | Compressor Type | | - | Rotary compressor |
| | Domestic Hot Water Tank Volume (net) | | l | 170 |
| | Weight (empty) | | kg | 166 |
| | Weight (full) | | kg | 345 |
| | Refrigerant | | - | R32 |
| | Volume of Refrigerant | | kg | 0.9 |
| | Heating Temperature Range | | °C | 20 - 60 |
| | Hot Water Temperature Range | | °C | 40 - 60 |
| | Internal Water Volume Loop Side / Heating Side | | l | 3.16 / 5.47 |
| | Sound Power Level | | dBA | 38 |
| Sound Pressure Level @1m | | dBA | 27 | |

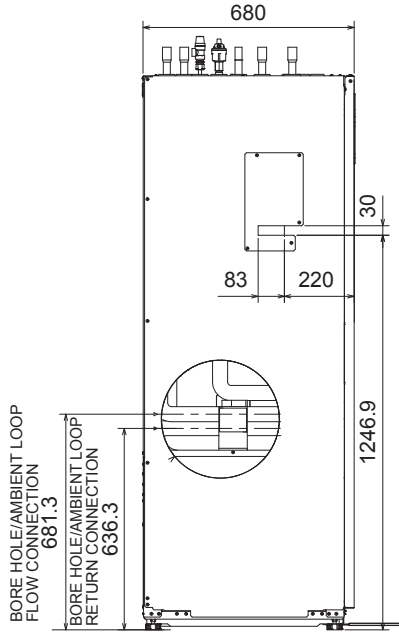
EHWT17D-MHEDW Dimensions

All dimensions (mm)

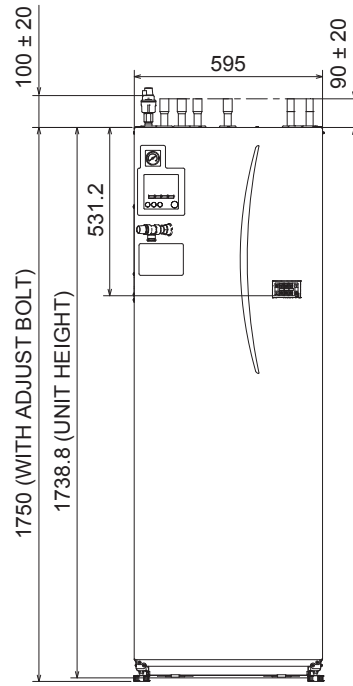
REAR VIEW



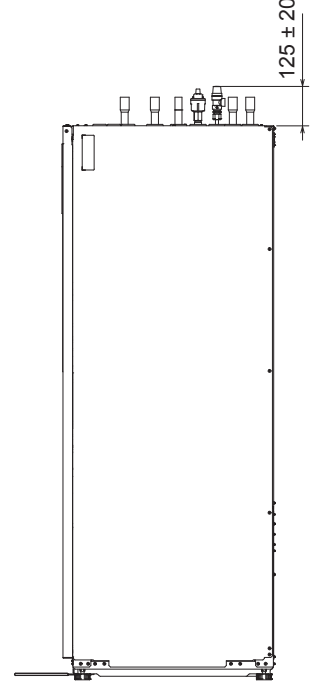
LEFT SIDE VIEW



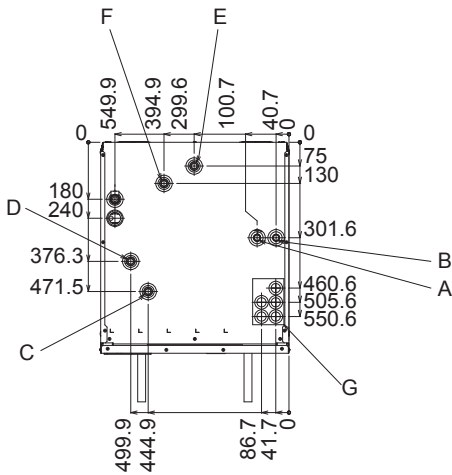
FRONT VIEW



RIGHT SIDE VIEW



UPPER VIEW



| Letter | Pipe Description | Connection Size/Type |
|--------|---------------------------------|---|
| A | DHW outlet connection | 22mm/Compression |
| B | Cold water inlet connection | 22mm/Compression |
| C | Space heating return connection | 28mm/Compression |
| D | Space heating flow connection | 28mm/Compression |
| E | Ambient loop return connection | 28mm/Compression |
| F | Ambient flow return connection | 28mm/Compression |
| G | Electrical cable inlets | For inlets 1 and 2, run low-voltage wires including external input wires and thermistor wires. For inlets 3, 4 and 5, run high-voltage wires including power cable, and external output wires. *For a wireless receiver (option) cable and ecodan Wi-Fi interface (option) cable, use inlet 1. |

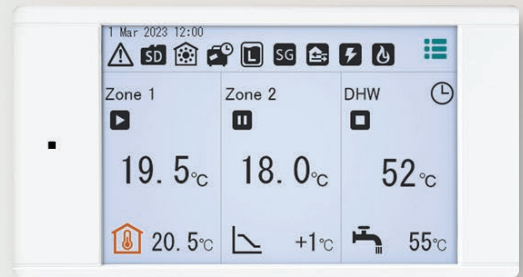


FTC7 and FTC2BR Flow Temperature Controllers

For use with Ecodan Monobloc Units and Third Party BEMS

The FTC7 Flow Temperature Controller is designed specifically by Mitsubishi Electric to integrate with the Ecodan R290 and R32 monobloc air source heat pump range and a third party cylinder.

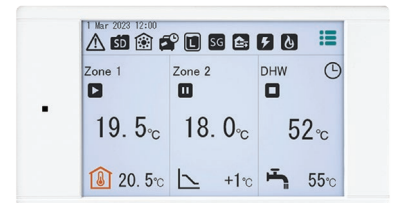
The FTC2BR has been developed to allow the Ecodan PUZ-(H)WM range to interface with third party or BEMS (Building Energy Management System) controls. A combination of volt free and voltage inputs allow the Ecodan PUZ-(H)WM monobloc range to be used in applications where only simple on/off and temperature control is required.



Functions that can be controlled and monitored by third party controls:

| Controlled | Monitored |
|---|--|
| <ul style="list-style-type: none"> ■ On/Off heating mode ■ On/Off heating ECO mode ■ On/Off hot water mode | <ul style="list-style-type: none"> ■ On/Off holiday mode ■ On/Off legionella mode ■ Change water flow temperature |
| | <ul style="list-style-type: none"> ■ Unit running ■ Error ■ Defrost |

The ability to interface with third party controls opens up a huge number of application opportunities. Many processes simply require a heat source that provides hot water, without polished end user controls. The FTC2BR controller allows the Ecodan PUZ to be used in these applications. FTC2BR inputs and outputs can be used in conjunction with local BEMS.



R290 R32

| Flow Temperature Controllers | | FTC2BR (PAC-IF033B-E) | FTC7 (PAC-IF082B-E) |
|---|---|--|--|
| COMPATIBILITY | <ul style="list-style-type: none"> PUZ-WZ50VAA(-BS) PUZ-WZ60VAA(-BS) PUZ-WZ85VAA/YAA(-BS) PUZ-WZ100VAA/YAA(-BS) PUZ-WZ120VAA/YAA(-BS) PUZ-WM50VHA(-BS) PUZ-WM60VAA(-BS) PUZ-WM85VAA/YAA(-BS) PUZ-WM112VAA/YAA(-BS) PUZ-HWM140VHA/YHA(-BS) | <ul style="list-style-type: none"> ● ● ● ● ● ● ● ● ● ● | <ul style="list-style-type: none"> ● ● ● ● ● ● ● ● ● ● |
| BUILT-IN FEATURES | <ul style="list-style-type: none"> Initial Setting Wizard Commissioning Aide Smart Grid Ready PV Connection Energy Monitoring Dual Set-Point DHW Flow Rate Control Logic Quiet Mode Cascade^{*1} Hybrid | <ul style="list-style-type: none"> ● ● ● ● ● ● ● ● ● ● | <ul style="list-style-type: none"> ● |
| MELCloud ENABLED ^{*2} | | ● | |
| BEMS INTERFACE | | | ● |
| DIMENSIONS (MM) | <ul style="list-style-type: none"> Width Depth Height | <ul style="list-style-type: none"> 393 86.7 422 | <ul style="list-style-type: none"> 336 69 278 |
| WEIGHT (kg) | | 4.2 | 3.2 |
| OPERATING AMBIENT TEMPERATURE (°C) / HUMIDITY | | 0~ +35°C (RH<80%) | 0~ +35°C (RH<80%) |
| ELECTRICAL DATA | <ul style="list-style-type: none"> Electrical Supply Phase | <ul style="list-style-type: none"> Via Outdoor Unit or Independent Source (230v) Single | <ul style="list-style-type: none"> Via Outdoor Unit or Independent Source (230v) Single |

NOTES:

*1 Requires additional optional part PAC-IF082B-E. Please contact your regional sales office technical team. *2 Requires Wi-Fi interface MAC-587IF-EH.

Fan Assisted Radiators

Our i-LIFE2 Slim fan assisted radiators are an ideal compliment to either an air source heat pump or your existing heating or gas boiler system. Offering fast response times and intelligent control for the ultimate heating experience.



i-LIFE2 Slim

i-LIFE2 Slim Fan Assisted Radiator



Key Features:

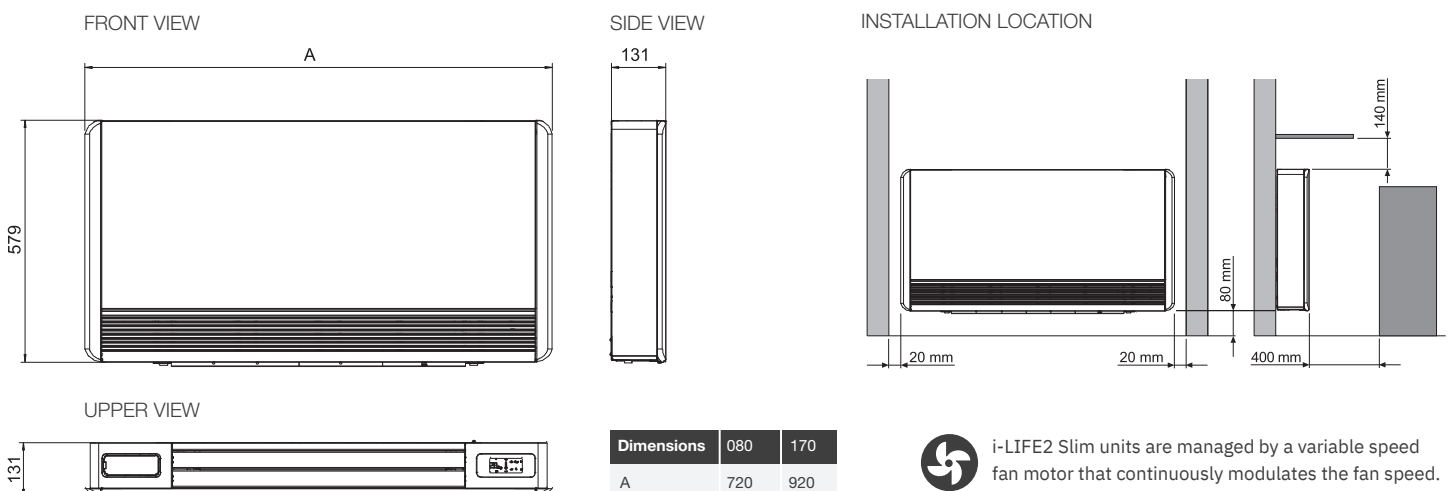
- **Stylish** - At only 13cm deep, the sleek and elegant satin-white, wall mounted cabinet is designed to blend seamlessly into any setting
- **Flexible** - Packed with advanced controls and functions, the i-Life2 Slim will work with traditional heating or renewable systems such as heat pumps
- **Easy to Use** - Airflow is managed by deflectors at the top of the unit, which open and close automatically, ensuring fast and even heat distribution

| Fan Assisted Radiator | | i-LIFE2 SLIM DLMV 080 ATS2 | i-LIFE2 SLIM DLMV 170 ATS2 |
|------------------------------------|---|----------------------------|----------------------------|
| CAPACITY (W) ^{2, 6, 7, 8} | | 500 / 780 / 880 | 1060 / 1660 / 2130 |
| ELECTRICAL DATA | Electrical Supply | 230v, 50Hz | 230v, 50Hz |
| | Phase | Single | Single |
| WATER DATA | Fan Power Input (W) - (Lo-Mi-Hi) ^{11, 18} | 0.7 / 4.6 / 10.7 | 1.62 / 10.1 / 19.0 |
| | Water Flow Rate (l/min) - (Lo-Mi-Hi) ² | 1.2 / 2.4 / 2.4 | 3 / 4.8 / 6 |
| | Water Pressure Drop (kPa) - (Lo-Mi-Hi) ^{2, 7, 8} | 3 / 6 / 8 | 2 / 5 / 8 |
| AIR DATA | Air Flow Rate (m ³ /h) - (Lo-Mi-Hi) ¹ | 51 / 93 / 125 | 122 / 221 / 277 |
| SOUND DATA | Sound Pressure (dB(A)) - (Lo-Mi-Hi) ³ | 24 / 35 / 41 | 26 / 36 / 42 |
| | Sound Power (dB(A)) - (Lo-Mi-Hi) ^{4, 7, 8} | 33 / 44 / 50 | 35 / 45 / 51 |
| DIMENSIONS (mm) ⁵ | Width | 737 | 937 |
| | Depth | 131 | 131 |
| | Height | 579 | 579 |
| WEIGHT (kg) ⁵ | | 17 | 20 |

NOTES: 1. Room temperature 27°C d.b./19°C w.b.; Chilled water (in/out) 7/12°C. 2. Room temperature 20°C d.b.; Hot water (in/out) 45/40 °C. 3. Sound pressure level in free field on a reflective surface, 1m from fan front and 1m from the ground. Non-binding value obtained from sound power level. 4. Sound power on the basis of measurements made in compliance with ISO 374 and Eurovent 8/2. 5. Unit in standard configuration/execution, without optional accessories. 6. Values in compliance with EN14511-3:2013. 7. Values in compliance with [REGULATION (UE) N.2016/2281]. 8. Certified data in EUROVENT.

i-LIFE2 SLIM DLMV 080 ATS2 & i-LIFE2 SLIM DLMV 170 ATS2 Dimensions












All dimensions (mm)



i-LIFE2 Slim units are managed by a variable speed fan motor that continuously modulates the fan speed.

Heating Accessories

| Product name | MEUK Product Code | |
|--|------------------------|---|
| FTC High Temperature Sensor 5m Cable | PAC-TH012HT-E |  |
| FTC High Temperature Sensor 30m Cable | PAC-TH012HTL-E |  |
| FTC Flow and Return Temperature Sensors 5m Cable | PAC-TH011-E |  |
| FTC Third Party Cylinder DHW Temp Sensor 5m Cable | PAC-TH011-E |  |
| FTC Third Party Cylinder DHW Temp Sensor 30m Cable | PAC-TH011TKL2-E |  |
| FTC Third Party Indoor Unit Flow Sensor | PAC-FS01-E |  |
| FTC7 Master Controller for 3rd Party Indoor Units | PAC-IF082B-E |  |
| FTC2BR Input/Output Kit for BEMS Interface | PAC-IF033B-E |  |
| Ecodan Anti-Vibration Fix-It-Foot 600mm Kit | ACC-AVM-001 |  |
| Compatible Drain Socket Kit | PAC-SH71DS-E |  |

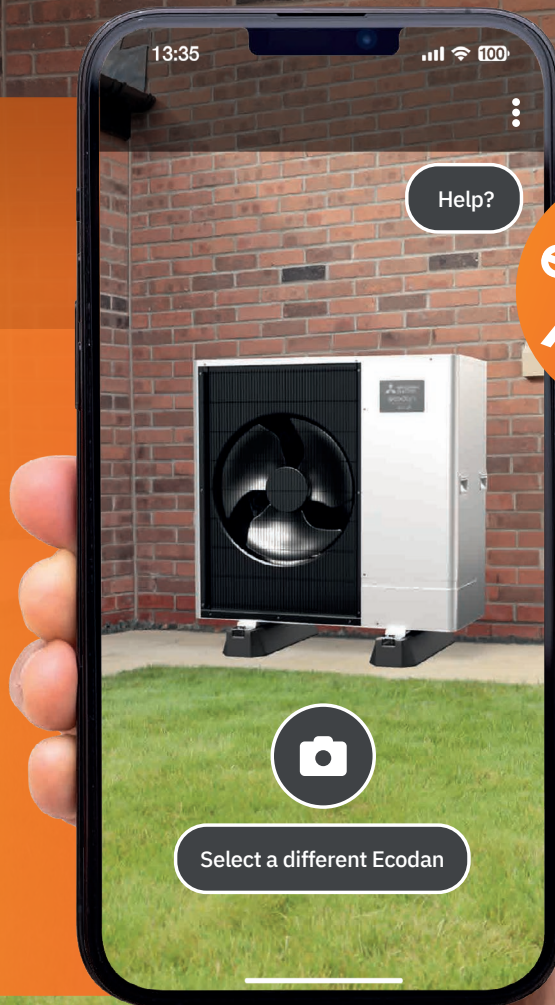
| Product name | MEUK Product Code | |
|--|---------------------|---|
| Anti Freeze 10L | ACC-AFZ-010A |  |
| Anti Freeze 20L | ACC-AFZ-020A |  |
| Insulated Through Wall Sleeve Kit (85mm) | ACC-FCP-TW1 |  |
| Pack for 2 Zone Systems with Equal Temperatures | ACC-2ZP-K01 |  |
| Pack for 2 Zone Systems with Different Temperatures | ACC-2ZP-K02 |  |
| Insulated Flexible Connection Pipes (22mm x 500mm) Standard Pair | ACC-FCP-S22 |  |
| Insulated Flexible Connection Pipes (28mm x 500mm) Standard Pair | ACC-FCP-S28 |  |
| Insulated Flexible Connection Pipes (28mm x 300mm) Elbow Pair | ACC-FCP-E28 |  |
| FTC Particle Filter 22mm < 8.0kW | ACC-FI-HP22 |  |
| Mitsubishi Electric FTC Particle Filter 28mm ≥ 8.0kW | ACC-FI-HP28 |  |
| MELCloud Wi-Fi Interface 2m Cable | MAC-587IF-EH |  |

Bring your customers' heat pump vision to life with our **ecodan** Augmented Reality (AR) visualiser!

This AR app makes it easier to switch and plan installations with confidence.

Using the app is simple:

1. Select the Ecodan unit you want to see.
2. Stand facing an exterior wall and point your phone's camera at the floor.
3. Tap "Place Ecodan", take a picture, and save or share it.



SEE MY
ecodan
APP

Scan or click
to download



Download on the
App Store

GET IT ON
Google Play



Ecodan Selection Tool

The Ecodan Heat Pump Selection Tool is an MCS compliant software that enables installers to size the correct Ecodan system for their customers' home.

It is a hassle free heat loss calculation tool, developed with two selection options to choose from, whole house or room by room. The tool will guide the installer towards the solution most suited to the needs of the property. Upon completion of the selection process, the tool will generate a bespoke and professional equipment selection report based upon the criteria entered; providing the relevant information and resources required to progress to the next stage of design.

The Ecodan Selection Tool is capable of delivering an informed choice.

Visit: ecodanselectiontool.mitsubishielectric.co.uk or scan the QR code



Installer Toolkit

Helping Installers find the right information quickly and easily.

Support your installs by having easy access to all the essential tools and resources in one place. From technical documents and guides, to finding training courses effortlessly and accessing technical support easily, you can have everything you need at your fingertips.

Don't forget that as a partner, you get exclusive access to additional support documents, images and marketing materials via the Mitsubishi Electric Partner Programme.

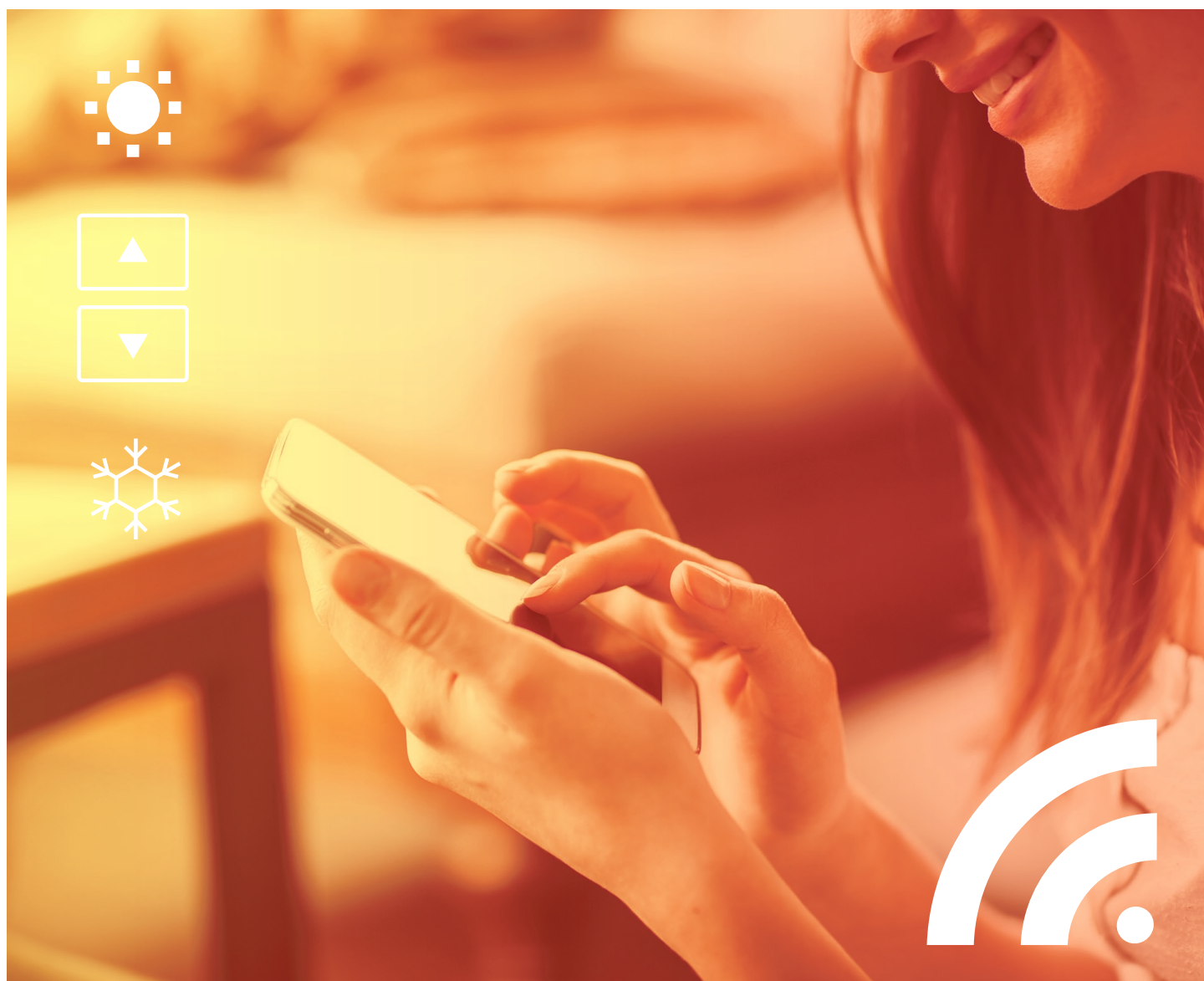
Visit: les.mitsubishielectric.co.uk/ecodan-installer or scan the QR code



MELCloud and MELConsole Wi-Fi Connectivity

MELCloud is a cloud based solution for controlling your Mitsubishi Electric Ecodan heating system either locally or remotely by PC, Mac, Tablet or Smartphone via the internet.

MELConsole provides remote maintenance and technical support to the owners of an Ecodan heating system, often resolving any technical issues they may have over phone. This service is provided completely free of charge with the majority of calls being solved online without a visit from an engineer, saving time, money and fuel.





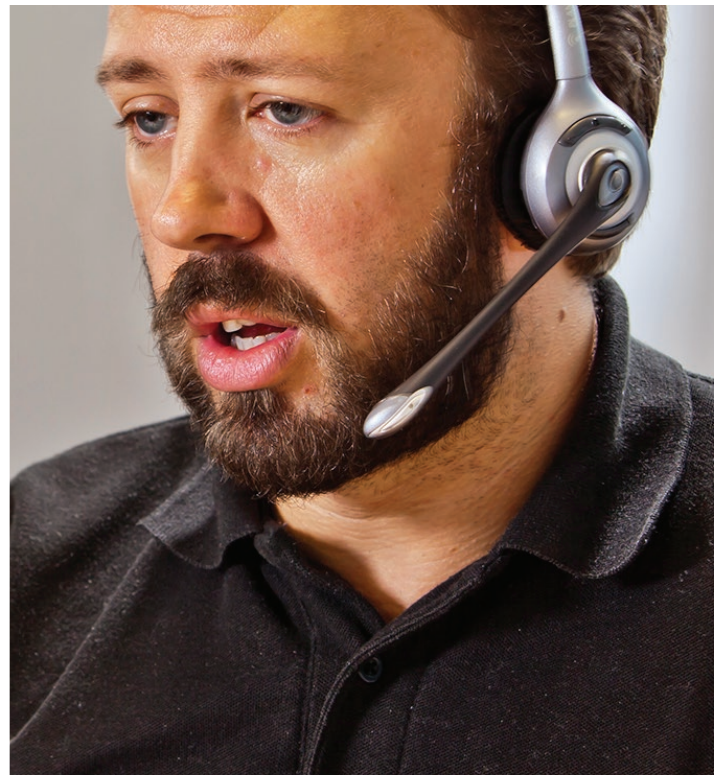
Remote Maintenance and Technical Support

Key Features:

- Solve your heating and hot water issues faster
- One phone call can often remove the need for a site visit
- Cut down on wasted travel time and cost
- Remote monitoring and fault diagnostics by phone
- Ideal solution for private homeowners, landlords and social housing providers



To find out more, scan the QR Code or call the Ecodan Helpdesk:
0161 866 6064



Air Conditioning



Mseries

Mitsubishi Electric's residential series provides the perfect solution to heat and cool your home or garden office.

With compact wall mount design and multi colour options Mitsubishi Electric's residential series provides the aesthetic appeal that homeowners desire.



The Adaptable M Series Range

Quick to install, the range includes some of the quietest units on the market. Available in a variety of options, the M Series range fits in wherever it's needed, with a choice of wall or floor mounted indoor units.








Wall Mounted Systems

- Premium Plus Inverter series, utilising low GWP R290 refrigerant
- Premium Inverter series, available in red, black or white
- Stylish Zen Inverter series, available in black, silver or white
- Mid-range Elegance Inverter series designed to suit popular demand
- Cost effective Classic Inverter series

Floor Mounted Systems

- Extremely versatile
- Designed for wall installation at floor level
- Compact design makes installation easy
- 3 models available from 2.5 - 5.0kW



| Indoor Model Range | | kW | 1.5*1 | 1.8*1 | 2.0 | 2.2*1 | 2.5 | 3.5 | 4.2 | 5.0 | 6.1 | 7.1 |
|-------------------------|---|----|-------|-------|-----|-------|-----|-----|-----|-----|-----|-----|
| Wall Mounted | | | | | | | | | | | | |
| R290 MSZ-RZ |  | | | | | | ● | ● | | | | |
| R32 MSZ-LN*2 |  | | | ● | | | ● | ● | | ● | ● | |
| R32 MSZ-EF*3 |  | | | ● | | ● | ● | ● | | ● | | |
| R32 MSZ-AY/AP |  | | ● | | ● | | ● | ● | ● | ● | ● | ● |
| R32 MSZ-HR |  | | | | | | ● | ● | | ● | ● | ● |
| Floor Mounted | | | | | | | | | | | | |
| R32 MFZ-KT |  | | | | | | ● | ● | | ● | | |

*1 Multi-split only *2 Also available in pearl white, onyx black and natural white *3 Also available in silver and white

MSZ-RZ

Premium Plus Wall Mounted System

Inverter Heat Pump

The **MSZ-RZ** range blends low GWP refrigerant, with a high heating performance efficiency in low outdoor temperatures. Excellent air purifying functions and many other smart features makes it an excellent choice.



R290

Key Features & Benefits:

- Built-in Plasma Quad Technology neutralises viruses, bacteria, allergens, PM2.5, mould and dust, inhibiting 99.8% of SARS-CoV-2*
- 3D i-see sensor provides energy efficient, customised comfort by automatically monitoring room occupancy, position and body temperatures
- Built in Wi-Fi interface enables system control & monitoring via the Mitsubishi Electric MELCloud app
- Excellent heating performance delivers warmth to your room at low ambient outdoor temperatures
- 'Circulator' mode to automatically circulate the air and eliminate cold spots
- User-friendly backlit controller for remote operation, including scheduling options

* Derived from and subject to test results, for and on behalf of Mitsubishi Electric conducted at the Microbial Testing Laboratory, Textile Quality and Technology Center, Kobe, Japan.

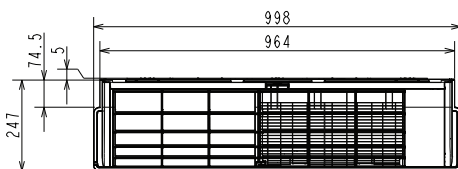
| MSZ-RZ - INDOOR UNITS | | MSZ-RZ25VU | MSZ-RZ35VU |
|---------------------------------|----------------------------|---------------------|---------------------|
| CAPACITY (kW) | Heating (nominal) | 3.2 (0.8-5.4) | 4.0 (1.1-6.3) |
| | Cooling (nominal) | 2.5 (0.9-3.5) | 3.5 (1.0-4.0) |
| | Heating (UK) | 2.62 (0.66-4.43) | 3.28 (0.9-5.17) |
| | Cooling (UK) | 2.5 (0.9-3.5) | 3.5 (1.0-4.0) |
| SHF (nominal) | | 1.00 | 0.92 |
| COP / EER (nominal) | | 5.50 / 5.60 | 4.90 / 4.50 |
| SCOP / SEER (BS EN14825) | | 5.3 / 11.7 | 5.2 / 9.6 |
| ErP ENERGY EFFICIENCY CLASS | Heating/Cooling | A+++ / A+++ | A+++ / A+++ |
| AIRFLOW (l/s) | Heating (SLo-Lo-Mi-Hi-SHi) | 85-130-158-195-235 | 85-130-158-195-255 |
| | Cooling (SLo-Lo-Mi-Hi-SHi) | 85-108-150-175-195 | 85-115-150-192-235 |
| PIPE SIZE mm (in) | Gas | 9.52 (3/8") | 9.52 (3/8") |
| | Liquid | 6.35 (1/4") | 6.35 (1/4") |
| SOUND PRESSURE LEVEL (dBA) | Heating (SLo-Lo-Mi-Hi-SHi) | 19-25-30-36-41 | 19-25-30-36-42 |
| | Cooling (SLo-Lo-Mi-Hi-SHi) | 19-23-29-36-42 | 19-24-29-36-43 |
| SOUND POWER LEVEL (dBA) | | 58 | 59 |
| DIMENSIONS (mm) | Width x Depth x Height | 998 x 247 x 305 | 998 x 247 x 305 |
| WEIGHT (kg) | | 14.4 | 14.4 |
| ELECTRICAL SUPPLY | | Fed by Outdoor Unit | Fed by Outdoor Unit |
| FUSE RATING (BS88) - HRC (A) | | 6 | 6 |
| INTERCONNECTING CABLE No. CORES | | 4 | 4 |

| MUZ-RZ- OUTDOOR UNITS | | MUZ-RZ25VU | MUZ-RZ35VU |
|--|---------------------------|-----------------|-----------------|
| SOUND PRESSURE LEVEL (dBA) | Heating/Cooling | 49 / 46 | 50 / 49 |
| SOUND POWER LEVEL (dBA) | Cooling | 60 | 61 |
| WEIGHT (kg) | | 37.5 | 39.5 |
| DIMENSIONS (mm) | Width x Depth x Height | 800 x 285 x 714 | 800 x 285 x 714 |
| ELECTRICAL SUPPLY | | 220-240v, 50Hz | 220-240v, 50Hz |
| PHASE | | Single | Single |
| SYSTEM POWER INPUT (kW) | Heating/Cooling (nominal) | 0.58 / 0.45 | 0.81 / 0.77 |
| | Heating/Cooling (UK) | 0.53 / 0.38 | 0.74 / 0.65 |
| STARTING CURRENT (A) | | 2.9 | 3.8 |
| SYSTEM RUNNING CURRENT (A) | Heating/Cooling [MAX] | 2.5 / 2.0 [9.8] | 3.5 / 3.3 [9.9] |
| FUSE RATING (BS88) - HRC (A) | | 10 | 10 |
| MAINS CABLE No. CORES | | 3 | 3 |
| MAX PIPE LENGTH (m) | | 20 | 20 |
| MAX HEIGHT DIFFERENCE (m) | | 12 | 12 |
| CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) - R290 (GWP 0.02) - 10m | | 0.39 / 0.001 | 0.39 / 0.001 |
| MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) - R290 (GWP 0.02) | | 0.10 / 0.000002 | 0.10 / 0.000002 |

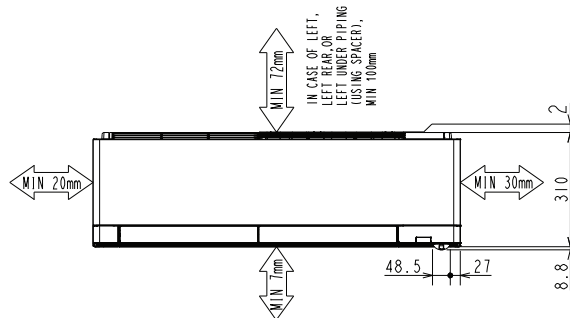
MSZ-RZ Dimensions

All dimensions (mm)

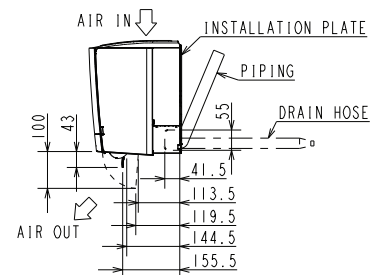
UPPER VIEW



FRONT VIEW



SIDE VIEW



MSZ-LN

Premium Wall Mounted System

Inverter Heat Pump

The **MSZ-LN** range is our flagship wall mounted system, that blends energy efficiency with a sophisticated streamlined design. Finished with a choice of four rich colours and a premium quality feel, this range features the latest product innovations, all designed to enhance the user experience, and is an excellent choice for residential or small commercial applications.



Ruby Red (R)



Onyx Black (B)



Pearl White (V)



Natural White (W)



Key Features & Benefits:

- Built-in Plasma Quad Technology neutralises viruses, bacteria, allergens, PM2.5, mould and dust, inhibiting 99.8% of SARS-CoV-2*
- 3D i-see sensor provides energy efficient, customised comfort by automatically monitoring room occupancy, position and body temperatures
- Built in Wi-Fi interface enables system control & monitoring via the Mitsubishi Electric MELCloud app; plus voice control - compatible with Amazon Alexa or Google Assistant-enabled devices
- Dual-Barrier Coating to the heat exchanger, fan and air duct prevents dust and grease accumulation
- Energy efficient, ultra-quiet operation with a choice of fan speeds
- User-friendly backlit controller for remote operation, including scheduling options

* Derived from and subject to test results, for and on behalf of Mitsubishi Electric conducted at the Microbial Testing Laboratory, Textile Quality and Technology Center, Kobe, Japan.

| MSZ-LN - INDOOR UNITS | | MSZ-LN18VG2 R/B/V/W | MSZ-LN25VG2 R/B/V/W | MSZ-LN35VG2 R/B/V/W | MSZ-LN50VG2 R/B/V/W | MSZ-LN60VG2 R/B/V/W |
|---------------------------------|----------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| CAPACITY (kW) | Heating (nominal) | 2.0 (0.9-4.0) | 3.2 (0.8-5.4) | 4.0 (1.0-6.3) | 6.0 (1.0-8.2) | 6.8 (1.8-9.3) |
| | Cooling (nominal) | 1.8 (0.9-3.0) | 2.5 (1.0-3.5) | 3.5 (0.8-4.0) | 5.0 (1.0-6.0) | 6.1 (1.4-6.9) |
| | Heating (UK) | - | 2.64 (0.66-4.45) | 3.3 (0.83-5.2) | 4.94 (0.82-6.75) | 5.6 (1.48-7.66) |
| | Cooling (UK) | - | 2.48 (0.99-3.47) | 3.47 (0.79-3.96) | 4.95 (0.99-5.94) | 6.05 (1.38-6.84) |
| SHF (nominal) | | - | 0.97 | 0.90 | 0.77 | 0.75 |
| COP / EER (nominal) | | - | 5.52 / 5.15 | 5.00 / 4.27 | 4.05 / 3.62 | 3.76 / 3.41 |
| SCOP / SEER (BS EN14825) | | - | 5.2 / 10.5 | 5.1 / 9.5 | 4.6 / 8.5 | 4.6 / 7.5 |
| ErP ENERGY EFFICIENCY CLASS | Heating/Cooling | - | A+++ / A+++ | A+++ / A+++ | A++ / A+++ | A++ / A++ |
| AIRFLOW (l/s) | Heating (SLo-Lo-Mi-Hi-SHi) | 67-95-118-142-240 | 67-95-118-142-240 | 71-97-118-142-228 | 90-107-142-178-262 | 110-158-192-227-262 |
| | Cooling (SLo-Lo-Mi-Hi-SHi) | 71-97-118-147-198 | 71-97-118-147-198 | 71-97-118-147-213 | 95-127-148-177-232 | 118-147-177-212-262 |
| PIPE SIZE mm (in) | Gas | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") | 12.7 (1/2") |
| | Liquid | 6.35 (1/4") | 6.35 (1/4") | 6.35 (1/4") | 6.35 (1/4") | 6.35 (1/4") |
| SOUND PRESSURE LEVEL (dBA) | Heating (SLo-Lo-Mi-Hi-SHi) | 19-24-29-36-45 | 19-24-29-36-45 | 19-24-29-36-45 | 25-29-34-39-47 | 29-37-41-45-49 |
| | Cooling (SLo-Lo-Mi-Hi-SHi) | 19-23-29-36-42 | 19-23-29-36-42 | 19-24-29-36-43 | 27-31-35-39-46 | 29-37-41-45-49 |
| SOUND POWER LEVEL (dBA) | | 58 | 58 | 58 | 60 | 65 |
| DIMENSIONS (mm) | Width x Depth x Height | 890 x 233 x 307 | 890 x 233 x 307 | 890 x 233 x 307 | 890 x 233 x 307 | 890 x 233 x 307 |
| WEIGHT (kg) | | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 |
| ELECTRICAL SUPPLY | | Fed by Outdoor Unit | Fed by Outdoor Unit | Fed by Outdoor Unit | Fed by Outdoor Unit | Fed by Outdoor Unit |
| FUSE RATING (BS88) - HRC (A) | | 6 | 6 | 6 | 6 | 6 |
| INTERCONNECTING CABLE No. CORES | | 4 | 4 | 4 | 4 | 4 |

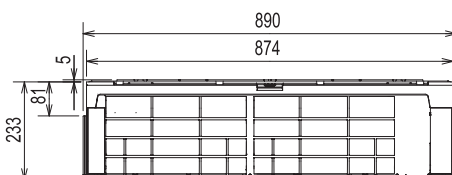
NOTES: MSZ-LN18VG2 only available with R32 MXZ Multi-Split outdoor units. Ruby Red (R), Onyx Black (B), Pearl White (V), Natural White (W)

| MUZ-LN - OUTDOOR UNITS | | MULTI-SPLIT ONLY | MUZ-LN25VG2 | MUZ-LN35VG2 | MUZ-LN50VG2 | MUZ-LN60VG2 |
|--|---------------------------|------------------|-----------------|-----------------|------------------|------------------|
| SOUND PRESSURE LEVEL (dBA) | Heating/Cooling | - | 49 / 46 | 50 / 49 | 54 / 51 | 55 / 55 |
| SOUND POWER LEVEL (dBA) | Cooling | - | 60 | 61 | 64 | 65 |
| WEIGHT (kg) | | - | 35 | 35 | 40 | 53 |
| DIMENSIONS (mm) | Width x Depth x Height | - | 800 x 285 x 550 | 800 x 285 x 550 | 800 x 285 x 714 | 840 x 330 x 880 |
| ELECTRICAL SUPPLY | | - | 220-240v, 50Hz | 220-240v, 50Hz | 220-240v, 50Hz | 220-240v, 50Hz |
| PHASE | | - | Single | Single | Single | Single |
| SYSTEM POWER INPUT (kW) | Heating/Cooling (nominal) | - | 0.580 / 0.485 | 0.800 / 0.820 | 1.480 / 1.380 | 1.810 / 1.790 |
| | Heating/Cooling (UK) | - | 0.523 / 0.406 | 0.722 / 0.686 | 1.335 / 1.151 | 1.632 / 1.494 |
| STARTING CURRENT (A) | | - | 3.0 | 4.0 | 6.8 | 7.9 |
| SYSTEM RUNNING CURRENT (A) | Heating/Cooling [MAX] | - | 3.0 / 2.5 [7.1] | 4.0 / 3.9 [9.9] | 6.8 / 6.3 [13.9] | 7.9 / 7.9 [15.2] |
| FUSE RATING (BS88) - HRC (A) | | - | 10 | 10 | 16 | 16 |
| MAINS CABLE No. CORES | | - | 3 | 3 | 3 | 3 |
| MAX PIPE LENGTH (m) | | - | 20 | 20 | 30 | 30 |
| MAX HEIGHT DIFFERENCE (m) | | - | 12 | 12 | 12 | 15 |
| CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) - R32 (GWP 675) - 7m | | - | 1.0 / 0.68 | 1.0 / 0.68 | 1.25 / 0.85 | 1.45 / 0.98 |
| MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) - R32 (GWP 675) | | - | 0.26 / 0.18 | 0.26 / 0.18 | 0.26 / 0.18 | 0.46 / 0.32 |

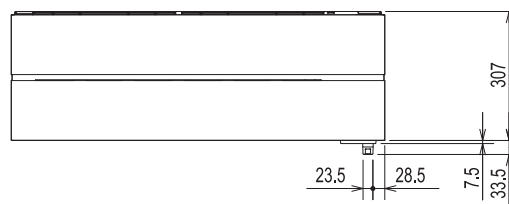
MSZ-LN Dimensions

All dimensions (mm)

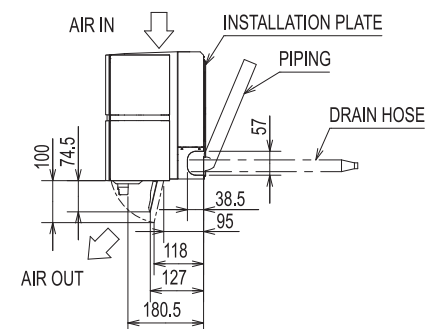
UPPER VIEW



FRONT VIEW



SIDE VIEW



MSZ-EF

Zen Wall Mounted System

Inverter Heat Pump

The **MSZ-EF** is a modern, small-scale wall mounted air conditioning system that effortlessly blends energy efficiency, low noise, Wi-Fi control and air filtration with a sophisticated, streamlined design. Available in capacities from 1.8kW to 5kW and connectable as a single or multi-split system, Zen is the perfect solution for residential and small office applications.



Key Features & Benefits:

- Stylish design in a range of three distinct colours - black, silver and white
- Built in Wi-Fi interface enables system control & monitoring via the Mitsubishi Electric MELCloud app; plus voice control - compatible with Amazon Alexa or Google Assistant-enabled devices
- In-room air purification through our advanced V-Blocking filter, neutralising viruses, allergens, dust and mould
- Easy operation via a backlit controller with 7 day time clock
- Compatible with Plasma Quad Connect - an innovative, bolt-on air purifying device which neutralises viruses, bacteria, allergens, PM2.5, mould and dust

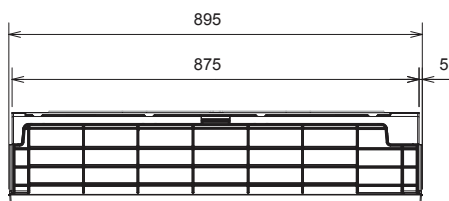
| MSZ-EF - INDOOR UNITS | | MSZ-EF18VGK B/S/W | MSZ-EF22VGK B/S/W | MSZ-EF25VGK B/S/W | MSZ-EF35VGK B/S/W | MSZ-EF50VGK B/S/W |
|---------------------------------|----------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| CAPACITY (kW) | Heating (nominal) | 2.0 (0.9 - 4.0) | 2.6 (1.0-4.5) | 3.2 (1.0-4.2) | 4.0 (1.3-5.1) | 5.8 (1.4-7.5) |
| | Cooling (nominal) | 1.8 (0.9 - 3.0) | 2.2 (1.0-3.2) | 2.5 (0.9-3.4) | 3.5 (1.1-4.0) | 5.0 (1.4-5.4) |
| | Heating (UK) | - | - | 2.65 (0.91-3.49) | 3.32 (1.08-4.23) | 4.82 (1.16-6.23) |
| | Cooling (UK) | - | - | 2.48 (0.89-3.37) | 3.47 (1.09-3.96) | 4.96 (1.39-5.36) |
| SHF (nominal) | | - | - | 0.97 | 0.80 | 0.70 |
| COP / EER (nominal) | | - | - | 4.57 / 4.63 | 4.21 / 3.85 | 3.72 / 3.25 |
| SCOP / SEER (BS EN14825) | | - | - | 4.7 / 9.1 | 4.6 / 8.8 | 4.5 / 7.5 |
| ErP ENERGY EFFICIENCY CLASS | Heating/Cooling | - | - | A++ / A+++ | A++ / A+++ | A+ / A++ |
| AIRFLOW (l/s) | Heating (SLo-Lo-Mi-Hi-SHi) | 67-77-103-148-198 | 67-77-103-148-198 | 67-77-103-148-198 | 67-77-103-148-212 | 107-120-150-185-243 |
| | Cooling (SLo-Lo-Mi-Hi-SHi) | 67-77-105-138-175 | 67-77-105-138-175 | 67-77-105-138-175 | 67-77-105-138-175 | 97-113-132-153-188 |
| PIPE SIZE mm (in) | Gas | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") |
| | Liquid | 6.35 (1/4") | 6.35 (1/4") | 6.35 (1/4") | 6.35 (1/4") | 6.35 (1/4") |
| SOUND PRESSURE LEVEL (dBA) | Heating (SLo-Lo-Mi-Hi-SHi) | 21-24-29-37-45 | 21-24-29-37-45 | 21-24-29-37-45 | 21-24-30-38-46 | 30-33-37-43-49 |
| | Cooling (SLo-Lo-Mi-Hi-SHi) | 19-23-29-36-42 | 19-23-29-36-42 | 19-23-29-36-42 | 21-24-30-36-42 | 30-33-36-40-43 |
| SOUND POWER LEVEL (dBA) | | 60 | 60 | 60 | 60 | 60 |
| DIMENSIONS (mm) | Width x Depth x Height | 885 x 195 x 299 | 885 x 195 x 299 | 885 x 195 x 299 | 885 x 195 x 299 | 885 x 195 x 299 |
| WEIGHT (kg) | | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 |
| ELECTRICAL SUPPLY | | Fed by Outdoor Unit | Fed by Outdoor Unit | Fed by Outdoor Unit | Fed by Outdoor Unit | Fed by Outdoor Unit |
| FUSE RATING (BS88) - HRC (A) | | 6 | 6 | 6 | 6 | 6 |
| INTERCONNECTING CABLE No. CORES | | 4 | 4 | 4 | 4 | 4 |

| MUZ-EF - OUTDOOR UNITS | | MULTI-SPLIT ONLY | MULTI-SPLIT ONLY | MUZ-EF25VG | MUZ-EF35VG | MUZ-EF50VG |
|--|---------------------------|------------------|------------------|-----------------|-----------------|------------------|
| SOUND PRESSURE LEVEL (dBA) | Heating/Cooling | - | - | 48 / 47 | 50 / 49 | 52 / 52 |
| SOUND POWER LEVEL (dBA) | Cooling | - | - | 58 | 62 | 65 |
| WEIGHT (kg) | | - | - | 31 | 34 | 40 |
| DIMENSIONS (mm) | Width x Depth x Height | - | - | 800 x 285 x 550 | 800 x 285 x 550 | 800 x 285 x 714 |
| ELECTRICAL SUPPLY | | - | - | 220-240v, 50Hz | 220-240v, 50Hz | 220-240v, 50Hz |
| PHASE | | - | - | Single | Single | Single |
| SYSTEM POWER INPUT (kW) | Heating/Cooling (nominal) | - | - | 0.70 / 0.54 | 0.95 / 0.91 | 1.56 / 1.54 |
| | Heating/Cooling (UK) | - | - | 0.64 / 0.44 | 0.87 / 0.73 | 1.42 / 1.24 |
| STARTING CURRENT (A) | | - | - | 3.6 | 4.4 | 7.1 |
| SYSTEM RUNNING CURRENT (A) | Heating/Cooling [MAX] | - | - | 3.6 / 3.0 [6.8] | 4.4 / 4.2 [6.8] | 7.1 / 6.9 [13.6] |
| FUSE RATING (BS88) - HRC (A) | | - | - | 10 | 10 | 16 |
| MAINS CABLE No. CORES | | - | - | 3 | 3 | 3 |
| MAX PIPE LENGTH (m) | | - | - | 20 | 20 | 30 |
| MAX HEIGHT DIFFERENCE (m) | | - | - | 12 | 12 | 15 |
| CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) - R32 (GWP 675) - 7m | | - | - | 0.62 / 0.42 | 0.74 / 0.50 | 1.05 / 0.71 |
| MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) - R32 (GWP 675) | | - | - | 0.26 / 0.18 | 0.26 / 0.18 | 0.46 / 0.31 |

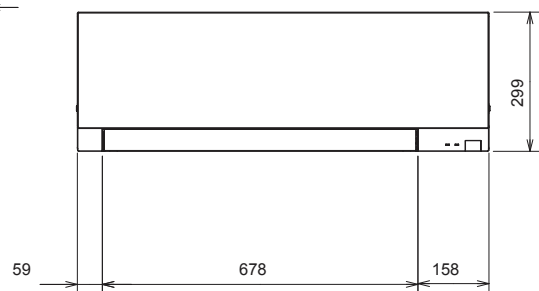
MSZ-EF Dimensions

All dimensions (mm)

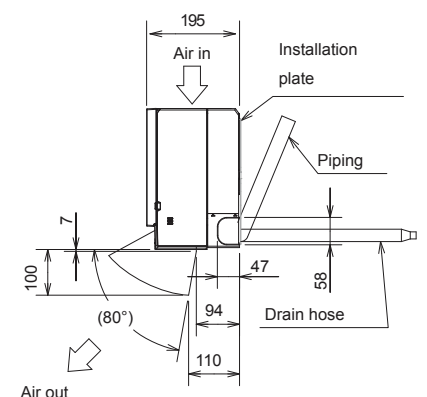
UPPER VIEW



FRONT VIEW



SIDE VIEW



MSZ-AY / MSZ-AP

Elegance Wall Mounted System

Inverter Heat Pump

The **MSZ-AY & MSZ-AP** wall mounted systems deliver excellent flexibility and energy efficiency for air conditioning projects. With a stylish design, range of capacities from 1.5kW to 7.1kW, and connection capability to single as well as multi-split systems, the Elegance series is a great fit for residential and light commercial applications.



Key Features & Benefits:

- Elegant and sleek design to complement multiple application types
- High seasonal efficiencies, offering energy saving and low running costs
- Low noise levels, including Night Mode setting, for minimal disturbance to occupants
- Built in Wi-Fi interface enables system control & monitoring via the Mitsubishi Electric MELCloud app; plus voice control - compatible with Amazon Alexa or Google Assistant-enabled devices
- Dual-Barrier coating on the heat exchanger, fan and air duct prevents dust and grease accumulation within the unit, ensuring long-term, efficient operation (MSZ-AY only)
- Self-cleaning mode prevents mould and odours, allowing cleaner air to be delivered to the space (MSZ-AY only)
- Luxury Matt finish ensures easy cleaning and consistent premium appearance (MSZ-AY only)
- In-room air purification through an advanced V-Blocking filter, neutralising bacteria, viruses, allergens, dust and mould
- Compatible with Plasma Quad Connect - an innovative, bolt-on air purifying device which neutralises viruses, bacteria, allergens, PM2.5, mould and dust

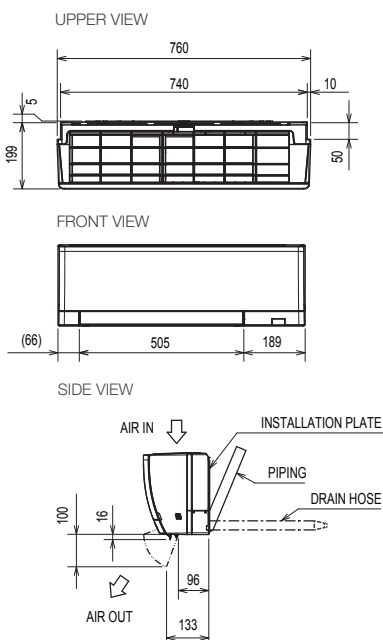
| MSZ-AY / MSZ-AP - INDOOR UNITS | | MSZ-AY15VGK | MSZ-AY20VGK | MSZ-AY25VGK | MSZ-AY35VGK | MSZ-AY42VGK | MSZ-AY50VGK | MSZ-AP60VGK | MSZ-AP71VGK |
|---------------------------------|----------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| CAPACITY (kW) | Heating (nominal) | 2.0 (0.5-3.1) | 2.5 (0.5-3.5) | 3.2 (1.0-4.1) | 4.0 (1.3-4.6) | 5.2 (1.3-6.0) | 5.5 (1.4-7.3) | 6.8 (2.0-8.6) | 8.0 (2.2-10.3) |
| | Cooling (nominal) | 1.5 (0.5-2.2) | 2.0 (0.6-2.7) | 2.5 (0.9-3.4) | 3.5 (1.1-3.8) | 4.2 (0.9-4.5) | 5.0 (1.4-5.4) | 6.1 (1.4-7.3) | 7.1 (2.0-8.7) |
| | Heating (UK) | 1.64 (0.4-2.5) | 2.06 (0.4-2.9) | 2.64 (0.8-3.4) | 3.3 (1.1-3.8) | 4.45 (1.1-4.9) | 4.78 (1.2-6.0) | 5.6 (1.6-7.1) | 6.68 (1.8-8.6) |
| | Cooling (UK) | 1.49 (0.5-2.2) | 1.98 (0.6-2.7) | 2.48 (0.9-3.4) | 3.47 (1.1-3.8) | 4.17 (0.9-4.5) | 4.95 (1.4-5.3) | 6.05 (1.4-7.2) | 7.04 (2.0-8.6) |
| SHF (nominal) | | - | 0.80 | 0.92 | 0.88 | 0.77 | 0.74 | 0.83 | 0.77 |
| COP / EER (nominal) | | - | 4.17 / 4.35 | 4.10 / 4.17 | 3.88 / 3.54 | 3.74 / 3.23 | 3.74 / 3.25 | 4.07 / 3.84 | 3.82 / 3.53 |
| SCOP / SEER (BS EN14825) | | - | 4.20 / 8.60 | 4.80 / 8.70 | 4.70 / 8.70 | 4.70 / 7.90 | 4.70 / 7.50 | 4.60 / 7.40 | 4.40 / 7.20 |
| ErP ENERGY EFFICIENCY CLASS | Heating/Cooling | - | A+ / A+++ | A++ / A+++ | A++ / A+++ | A++ / A++ | A++ / A++ | A++ / A++ | A+ / A++ |
| AIRFLOW (l/s) | Heating (SLo-Lo-Mi-Hi-SHi) | 47-65-75-90-102 | 47-65-75-90-118 | 67-83-110-133-197 | 67-83-110-133-197 | 73-90-116-143-215 | 80-95-121-151-215 | 180-223-257-290-338 | 170-192-220-255-320 |
| | Cooling (SLo-Lo-Mi-Hi-SHi) | 47-62-73-87-102 | 47-62-73-87-110 | 60-83-105-130-175 | 60-83-105-130-185 | 75-95-116-140-175 | 86-106-125-151-195 | 157-183-220-267-315 | 160-192-220-255-310 |
| PIPE SIZE mm (in) | Gas | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") | 12.7 (1/2") | 12.7 (1/2") |
| | Liquid | 6.35 (1/4") | 6.35 (1/4") | 6.35 (1/4") | 6.35 (1/4") | 6.35 (1/4") | 6.35 (1/4") | 6.35 (1/4") | 6.35 (1/4") |
| SOUND PRESSURE LEVEL (dBA) | Heating (SLo-Lo-Mi-Hi-SHi) | 21-26-30-35-40 | 19-26-30-35-42 | 18-24-34-39-45 | 18-24-31-38-45 | 21-29-35-40-45 | 28-33-38-43-48 | 30-37-41-45-48 | 30-37-41-45-51 |
| | Cooling (SLo-Lo-Mi-Hi-SHi) | 21-26-30-35-40 | 19-26-30-35-42 | 18-24-30-36-42 | 18-24-30-36-42 | 21-29-34-38-42 | 28-33-36-40-44 | 30-37-41-45-48 | 30-37-41-45-49 |
| SOUND POWER LEVEL (dBA) | | 54 | 57 | 57 | 57 | 57 | 58 | 65 | 65 |
| DIMENSIONS (mm) | Width x Depth x Height | 760 x 199 x 250 | 760 x 199 x 250 | 798 x 245 x 299 | 798 x 245 x 299 | 798 x 245 x 299 | 798 x 245 x 299 | 1100 x 257 x 325 | 1100 x 257 x 325 |
| WEIGHT (kg) | | 8.9 | 8.9 | 10.5 | 10.5 | 10.5 | 10.5 | 16 | 17 |
| ELECTRICAL SUPPLY | | Fed by Outdoor Unit | Fed by Outdoor Unit | Fed by Outdoor Unit | Fed by Outdoor Unit | Fed by Outdoor Unit | Fed by Outdoor Unit | Fed by Outdoor Unit | Fed by Outdoor Unit |
| FUSE RATING (BS88) - HRC (A) | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| INTERCONNECTING CABLE No. CORES | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |

| MUZ-AY / MUZ-AP - OUTDOOR UNITS | | MULTI-SPLIT | MUZ-AY20VG | MUZ-AY25VG | MUZ-AY35VG | MUZ-AY42VG | MUZ-AY50VG | MUZ-AP60VG | MUZ-AP71VG2 |
|--|---------------------------|-------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|
| SOUND PRESSURE LEVEL (dBA) | Heating/Cooling | - | 48 / 47 | 48 / 47 | 50 / 49 | 51 / 50 | 52 / 52 | 57 / 56 | 55 / 56 |
| SOUND POWER LEVEL (dBA) | Cooling | - | 59 | 59 | 61 | 61 | 64 | 65 | 65 |
| WEIGHT (kg) | | - | 28 | 27 | 28.5 | 34 | 40.5 | 40 | 53 |
| DIMENSIONS (mm) | Width x Depth x Height | - | 800 x 285 x 550 | 800 x 285 x 550 | 800 x 285 x 550 | 800 x 285 x 550 | 800 x 285 x 714 | 800 x 285 x 714 | 840 x 330 x 880 |
| ELECTRICAL SUPPLY | | - | 220-240v, 50Hz | 220-240v, 50Hz | 220-240v, 50Hz | 220-240v, 50Hz | 220-240v, 50Hz | 220-240v, 50Hz | 220-240v, 50Hz |
| PHASE | | - | Single | Single | Single | Single | Single | Single | Single |
| SYSTEM POWER INPUT (kW) | Heating/Cooling (nominal) | - | 1.00 / 0.46 | 0.78 / 0.60 | 1.03 / 0.99 | 1.39 / 1.30 | 1.47 / 1.54 | 1.67 / 1.59 | 2.12 / 2.01 |
| | Heating/Cooling (UK) | - | 0.90 / 0.38 | 0.70 / 0.50 | 0.93 / 0.83 | 1.25 / 1.08 | 1.32 / 1.28 | 1.51 / 1.33 | 1.91 / 1.68 |
| STARTING CURRENT (A) | | - | 3.2 | 3.6 | 4.7 | 6.1 | 6.9 | 7.4 | 9.3 |
| SYSTEM RUNNING CURRENT (A) | Heating/Cooling [MAX] | - | 3.2 / 2.6 [7.0] | 3.6 / 2.9 [7.6] | 4.7 / 4.5 [7.6] | 6.1 / 5.8 [9.9] | 6.5 / 6.9 [13.8] | 7.4 / 7.1 [14.0] | 9.3 / 8.8 [16.4] |
| FUSE RATING (BS88) - HRC (A) | | - | 10 | 10 | 10 | 10 | 16 | 16 | 20 |
| MAINS CABLE No. CORES | | - | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| MAX PIPE LENGTH (m) | | - | 20 | 20 | 20 | 20 | 20 | 30 | 30 |
| MAX HEIGHT DIFFERENCE (m) | | - | 12 | 12 | 12 | 12 | 12 | 15 | 15 |
| CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) - R32 (GWP 675) - 7m | | - | 0.55 / 0.37 | 0.55 / 0.37 | 0.55 / 0.37 | 0.70 / 0.47 | 1.00 / 0.68 | 1.05 / 0.71 | 1.50 / 1.02 |
| MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) - R32 (GWP 675) | | - | 0.25 / 0.17 | 0.25 / 0.17 | 0.25 / 0.17 | 0.25 / 0.17 | 0.25 / 0.17 | 0.30 / 0.21 | 0.30 / 0.21 |

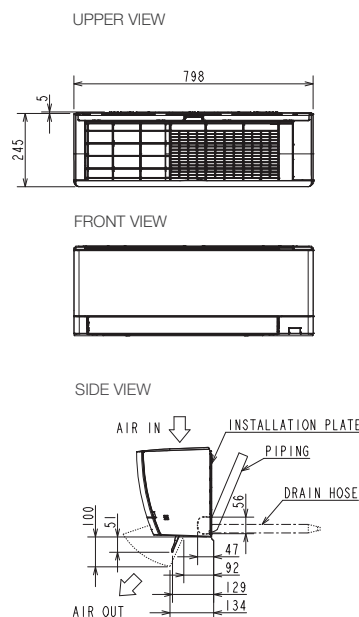
MSZ-AY / MSZ-AP Dimensions

All dimensions (mm)

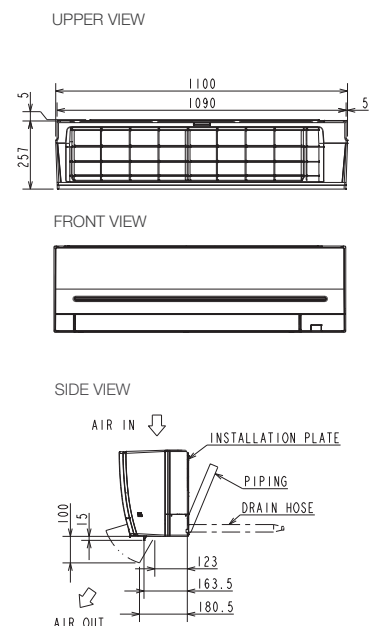
MSZ-AY15-20VGK



MSZ-AY25-50VGK



MSZ-AP60-71VGK



MSZ-HR

Classic Wall Mounted System

Inverter Heat Pump

The **MSZ-HR** range of wall mounted split systems is now available in capacities up to 7.1kW, making them ideal for light commercial applications such as small offices & retail spaces. With efficient & quiet operation, as well as optional Wi-Fi control, these systems provide excellent value for money as single or multi-split systems.



R32

Key Features & Benefits:

- Stylish white design
- Utilises lower GWP R32 refrigerant
- Optional Wi-Fi interface enabling control & monitoring via the MELCloud app
- Daily timer for greater control of scheduling
- Multi-Split connection to MXZ-HA
- Compatible with Plasma Quad Connect - an innovative, bolt-on air purifying device which neutralises viruses, bacteria, allergens, PM2.5, mould and dust

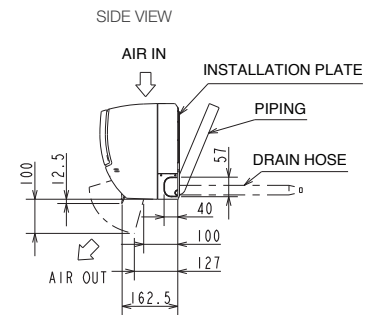
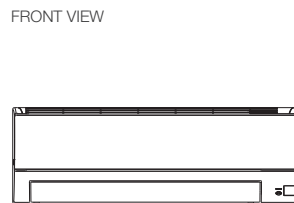
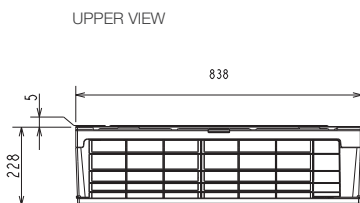
| MSZ-HR - INDOOR UNITS | | MSZ-HR25VF | MSZ-HR35VF | MSZ-HR50VF | MSZ-HR60VF | MSZ-HR71VF |
|---------------------------------|----------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| CAPACITY (kW) | Heating (nominal) | 3.15 (0.7-3.5) | 3.6 (0.9-3.7) | 5.4 (1.4-6.5) | 6.8 (1.5-9.0) | 8.1 (1.5-9.0) |
| | Cooling (nominal) | 2.5 (0.5-2.9) | 3.4 (0.9-3.4) | 5.0 (1.3-5.0) | 6.1 (1.7-7.4) | 7.1 (1.8-7.4) |
| | Heating (UK) | 2.61 (0.6-2.9) | 2.99 (0.75-3.1) | 4.48 (1.16-5.39) | 5.64 (1.25-7.47) | 6.72 (1.25-7.47) |
| | Cooling (UK) | 2.48 (0.5-2.8) | 3.37 (0.89-3.4) | 4.96 (1.29-4.96) | 5.98 (1.67-7.25) | 6.96 (1.76-7.25) |
| SHF (nominal) | | 0.78 | 0.78 | 0.73 | 0.79 | 0.74 |
| COP / EER (nominal) | | 3.71 / 3.13 | 3.69 / 2.81 | 3.48 / 2.44 | 3.76 / 3.37 | 3.32 / 3.05 |
| SCOP / SEER (BS EN14825) | | 4.30 / 6.20 | 4.30 / 6.20 | 4.30 / 6.50 | 4.50 / 7.20 | 4.30 / 7.00 |
| ErP ENERGY EFFICIENCY CLASS | Heating/Cooling | A+ / A++ | A+ / A++ | A+ / A++ | A+ / A++ | A+ / A++ |
| AIRFLOW (l/s) | Heating (SLo-Lo-Mi-Hi-SHi) | 55-90-123-168 | 55-90-123-175 | 102-138-187-242 | 178-218-278-327 | 178-218-278-327 |
| | Cooling (SLo-Lo-Mi-Hi-SHi) | 60-90-120-162 | 60-93-130-195 | 107-153-187-218 | 173-210-257-327 | 173-210-257-327 |
| PIPE SIZE mm (in) | Gas | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") | 12.7 (1/2") | 12.7 (1/2") |
| | Liquid | 6.35 (1/4") | 6.35 (1/4") | 6.35 (1/4") | 6.35 (1/4") | 6.35 (1/4") |
| SOUND PRESSURE LEVEL (dBA) | Heating (SLo-Lo-Mi-Hi-SHi) | 21-30-37-43 | 21-30-37-44 | 27-34-41-47 | 33-38-44-50 | 33-38-44-50 |
| | Cooling (SLo-Lo-Mi-Hi-SHi) | 21-30-37-43 | 22-31-38-46 | 28-36-40-45 | 33-38-44-50 | 33-38-44-50 |
| SOUND POWER LEVEL (dBA) | | 57 | 60 | 60 | 65 | 65 |
| DIMENSIONS (mm) | Width x Depth x Height | 838 x 228 x 280 | 838 x 228 x 280 | 838 x 228 x 280 | 923 x 263 x 305 | 923 x 263 x 305 |
| WEIGHT (kg) | | 8.5 | 8.5 | 9 | 12.5 | 12.5 |
| ELECTRICAL SUPPLY | | Fed by Outdoor Unit | Fed by Outdoor Unit | Fed by Outdoor Unit | Fed by Outdoor Unit | Fed by Outdoor Unit |
| FUSE RATING (BS88) - HRC (A) | | 6 | 6 | 6 | 6 | 6 |
| INTERCONNECTING CABLE No. CORES | | 4 | 4 | 4 | 4 | 4 |

| MUZ-HR - OUTDOOR UNITS | | MUZ-HR25VF | MUZ-HR35VF | MUZ-HR50VF | MUZ-HR60VF | MUZ-HR71VF |
|--|---------------------------|-----------------|-----------------|-----------------|------------------|--------------------|
| SOUND PRESSURE LEVEL (dBA) | Heating/Cooling | 50 / 50 | 51 / 51 | 51 / 50 | 57 / 53 | 57 / 53 |
| SOUND POWER LEVEL (dBA) | Cooling | 63 | 64 | 64 | 65 | 66 |
| WEIGHT (kg) | | 23 | 24 | 35 | 40 | 40 |
| DIMENSIONS (mm) | Width x Depth x Height | 699 x 249 x 538 | 699 x 249 x 538 | 800 x 285 x 550 | 800 x 285 x 714 | 800 x 285 x 714 |
| ELECTRICAL SUPPLY | | 220-240v, 50Hz | 220-240v, 50Hz | 220-240v, 50Hz | 220-240v, 50Hz | 220-240v, 50Hz |
| PHASE | | Single | Single | Single | Single | Single |
| SYSTEM POWER INPUT (kW) | Heating/Cooling (nominal) | 0.85 / 0.80 | 0.98 / 1.21 | 1.55 / 2.05 | 1.81 / 1.81 | 2.44 / 2.33 |
| | Heating/Cooling (UK) | 0.77 / 0.63 | 0.89 / 0.96 | 1.40 / 1.62 | 1.63 / 1.52 | 2.20 / 1.96 |
| STARTING CURRENT (A) | | 4.1 | 5.9 | 9.0 | 8.0 | 10.8 |
| SYSTEM RUNNING CURRENT (A) | Heating/Cooling [MAX] | 4.1 / 3.8 [4.8] | 4.6 / 5.9 [6.4] | 6.9 / 9.0 [9.6] | 8.0 / 8.0 [14.1] | 11.8 / 10.3 [14.1] |
| FUSE RATING (BS88) - HRC (A) | | 10 | 10 | 16 | 16 | 16 |
| MAINS CABLE No. CORES | | 3 | 3 | 3 | 3 | 3 |
| MAX PIPE LENGTH (m) | | 20 | 20 | 20 | 30 | 30 |
| MAX HEIGHT DIFFERENCE (m) | | 12 | 12 | 12 | 15 | 15 |
| CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) - R32 (GWP 675) - 7m | | 0.40 / 0.27 | 0.45 / 0.30 | 0.80 / 0.54 | 1.05 / 0.71 | 1.05 / 0.71 |
| MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) - R32 (GWP 675) | | 0.26 / 0.18 | 0.26 / 0.18 | 0.26 / 0.18 | 0.46 / 0.32 | 0.46 / 0.32 |

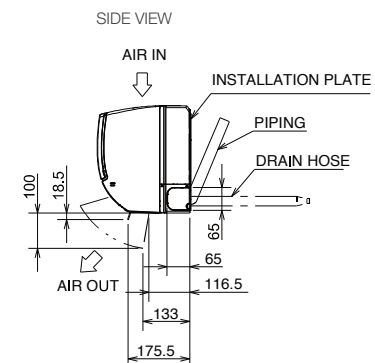
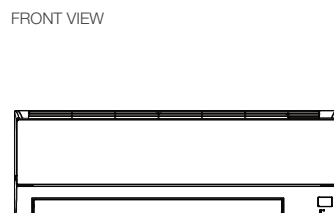
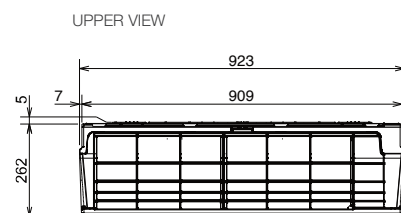
MSZ-HR Dimensions

All dimensions (mm)

MSZ-HR25/35/50VF



MSZ-HR60/71VF



MFZ-KT

Floor Mounted System

Inverter Heat Pump



The **MFZ-KT** floor mounted system is extremely versatile and is designed for wall-attached installation at floor level. Lightweight and compact in design, this unit is ideal for applications such as conservatories, gardenrooms and small offices where wall space is limited.



Key Features & Benefits:

- Lightweight, floor mounted design for easy installation
- Auto-swing vane feature provides a natural and comfortable airflow
- Controller with built-in timer
- Optional Wi-Fi interface enabling control & monitoring via the MELCloud app

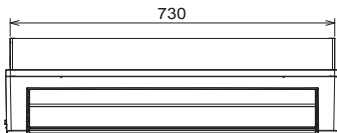
| MFZ-KT - INDOOR UNITS | | MFZ-KT25VG | MFZ-KT35VG | MFZ-KT50VG |
|---------------------------------|-------------------------------|---------------------|-------------------|---------------------|
| CAPACITY (kW) | Heating (nominal) | 3.4 (1.3-4.2) | 4.3 (1.1-5.0) | 6.0 (1.5-7.2) |
| | Cooling (nominal) | 2.5 (1.6-3.2) | 3.5 (0.9-3.9) | 5.0 (1.2-5.6) |
| | Heating (UK) | 2.79 (1.07-3.44) | 3.53 (0.9-4.10) | 4.92 (1.23-5.90) |
| | Cooling (UK) | 2.45 (1.57-3.14) | 3.43 (0.88-3.82) | 4.90 (1.18-5.49) |
| | SHF (nominal) | 0.79 | 0.70 | 0.72 |
| COP / EER (nominal) | | 3.74 / 4.03 | 3.41 / 3.30 | 3.23 / 3.23 |
| SCOP / SEER (BS EN14825) | | 4.2 / 6.5 | 4.4 / 6.6 | 4.2 / 6.8 |
| ErP ENERGY EFFICIENCY CLASS | | A+ / A++ | | A+ / A++ |
| AIRFLOW (l/s) | Heating - Silent-Lo-Mi-Hi-SHi | 58-67-93-122-162 | 58-67-93-122-162 | 100-128-157-193-233 |
| | Cooling - Silent-Lo-Mi-Hi-SHi | 65-80-108-130-148 | 65-80-108-130-148 | 93-112-143-173-205 |
| PIPE SIZE mm (in) | Gas | 9.52 (3/8") | 9.52 (3/8") | 12.7 (1/2") |
| | Liquid | 6.35 (1/4") | 6.35 (1/4") | 6.35 (1/4") |
| SOUND PRESSURE LEVEL (dBA) | Heating (Silent-Lo-Mi-Hi-SHi) | 19-23-30-37-44 | 19-23-30-37-44 | 29-35-40-44-49 |
| | Cooling (Silent-Lo-Mi-Hi-SHi) | 9-24-31-37-41 | 9-24-31-37-41 | 8-32-37-42-48 |
| SOUND POWER LEVEL (dBA) | | 54 | 54 | 60 |
| DIMENSIONS (mm) | | 750 x 215 x 600 | | 750 x 215 x 600 |
| WEIGHT (kg) | | 14.5 | 14.5 | 15 |
| ELECTRICAL SUPPLY | | Fed by Outdoor Unit | | Fed by Outdoor Unit |
| FUSE RATING (BS88) - HRC (A) | | 6 | 6 | 6 |
| INTERCONNECTING CABLE No. CORES | | 4 | 4 | 4 |

| SUZ-M - OUTDOOR UNITS | | SUZ-M25VAR2 | SUZ-M35VAR2 | SUZ-M50VAR2 |
|--|---------------------------|-----------------|-----------------|------------------|
| SOUND PRESSURE LEVEL (dBA) | | 46 / 45 | 48 / 48 | 49 / 48 |
| SOUND POWER LEVEL (dBA) | | 59 | 59 | 64 |
| WEIGHT (kg) | | 30 | 35 | 41 |
| DIMENSIONS (mm) | | 800 x 285 x 550 | | 800 x 285 x 714 |
| ELECTRICAL SUPPLY | | 220-240V, 50Hz | | 220-240V, 50Hz |
| PHASE | | Single | | Single |
| SYSTEM POWER INPUT (kW) | Heating/Cooling (nominal) | 0.80 / 0.71 | 1.07 / 1.00 | 1.61 / 1.54 |
| | Heating/Cooling (UK) | 0.68 / 0.61 | 0.91 / 0.86 | 1.37 / 1.32 |
| STARTING CURRENT (A) | | 3.7 | 5.0 | 8.0 |
| SYSTEM RUNNING CURRENT (A) | | 3.7 / 3.0 [6.8] | 5.0 / 4.1 [8.5] | 8.0 / 7.1 [13.5] |
| FUSE RATING (BS88) - HRC (A) | | 10 | 10 | 20 |
| MAINS CABLE No. CORES | | 3 | 3 | 3 |
| MAX PIPE LENGTH (m) | | 20 | 20 | 30 |
| MAX HEIGHT DIFFERENCE (m) | | 12 | 12 | 30 |
| CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) - R32 (GWP 675) - 7m | | 0.65 / 0.44 | 0.90 / 0.61 | 1.20 / 0.81 |
| MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) - R32 (GWP 675) | | 0.26 / 0.18 | 0.26 / 0.18 | 0.46 / 0.31 |

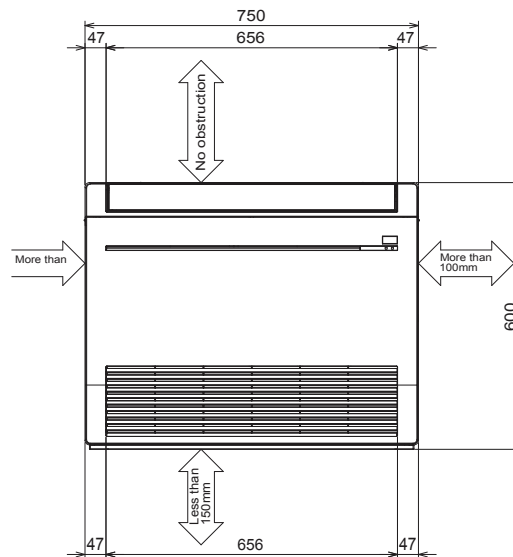
MFZ-KT Dimensions

All dimensions (mm)

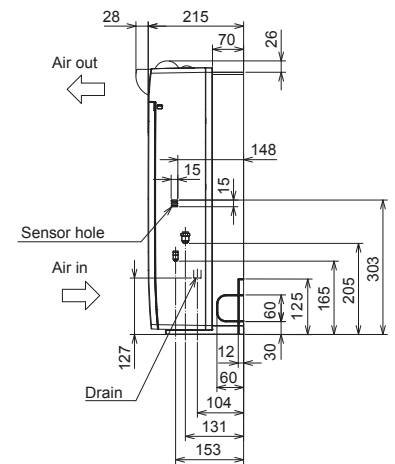
UPPER VIEW



FRONT VIEW



SIDE VIEW



M Series Accessories / Optional Extras

| Indoor Units | Description |
|--------------|---|
| MAC-100FT-E | Plasma Quad Connect air purifying device for MSZ-EF, MSZ-AY, MSZ-AP, MSZ-HR |
| MAC-286RH-E | Natural white remote controller holder for MSZ-LN |
| MAC-1300RC-E | Natural white remote controller holder for MSZ-RZ, MSZ-EF, MSZ-AY, MSZ-AP |
| MAC-1200RC-E | Natural white remote controller holder for MSZ-HR |

| Outdoor Units | Description |
|---------------|---|
| MAC-881SG | Air outlet guide for MUZ-LN25/35VG2, MUZ-EF25/35VG, MUZ-AY20/25/35/42VG, MUZ-HR50VF, SUZ-M25/35VAR2 |
| MAC-883SG | Air outlet guide for MUZ-HR25/35VF |
| MAC-882SG | Air outlet guide for MUZ-RZ25/35VU, MUZ-LN50VG2, MUZ-EF50VG, MUZ-AY50VG, MUZ-AP60VG, MUZ-HR60/71VF, SUZ-M50VAR2 |

| System Control Units | Description |
|-----------------------|---|
| PAR-41MAA | Standard wired remote controller for MSZ-RZ, MSZ-LN, MSZ-EF, MSZ-AY, MSZ-AP, MSZ-HR, MFZ-KT |
| MAC-334IF-E | Interface for M-NET, MA remote controller (PAR-41MAA / PAR-CT01MAA), on/off input and run/fault output. Now includes a heating interlock mode |
| MAC-497IF-E | Interface for MA remote controller (PAR-41MAA / PAR-CT01MAA) |
| MAC-587IF-E | Interface for connection to Wi-Fi MELCloud service (Included as standard on MSZ-RZ, MSZ-LN, MSZ-EF, MSZ-AY and MSZ-AP models) |
| PAR-CT01MAA-SB | Touch screen wired remote controller |
| PAR-CT01MAA-PB | Touch screen wired remote controller (Premium finish) |
| MELCOBEMS MINI (A1M+) | Modbus/BACnet MSTP CN105 adaptor |
| MELCORETAIL MINI | Retail control and input/output interface |

Multi-Splits

The Flexible & Efficient Multi-Split Range

Ideal for residential homes that require air conditioning in more than one room, Mitsubishi Electric Multi-Split systems combine flexibility and performance while lowering CO₂ emissions and running costs.

Using both R32 and R410A refrigerant, and flexible enough to suit a number of applications, the range includes models that will run up to thirty indoor units per single outdoor unit, between 3.3 and 33.5kW.

With vastly reduced power consumption and inverter technology, alongside increased pipe lengths and advanced controls, the Multi-Split range is extremely efficient and versatile, helping to make system application easier. A variety of indoor units can be connected to a single outdoor unit, including cassettes, ducted, wall, floor or ceiling mounted units. The range is one of the most efficient in the industry with an energy efficiency class of up to A+++.

Example of a 6-way MXZ R32 Multi-Split System:

R32



Compatibility Table

| Model | MXZ-2F33 VF4 | MXZ-2F42 VF4 | MXZ-2F53 VF4 | MXZ-3F54 VF4 | MXZ-3F68 VF4 | MXZ-4F72 VF4 | MXZ-4F83 VF2 | MXZ-5F102 VF2 | MXZ-6F120 VF2 | MXZ-2HA40 VF2 | MXZ-2HA50 VF2 | MXZ-3HA50 VF2 |
|---------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|
| Wall Mounted | | | | | | | | | | | | |
| MSZ-LN18VG2 | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| MSZ-LN25VG2 | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| MSZ-LN35VG2 | | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| MSZ-LN50VG2 | | | | ● | ● | ● | ● | ● | ● | | | |
| MSZ-EF18VGK | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| MSZ-EF22VGK | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| MSZ-EF25VGK | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| MSZ-EF35VGK | | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| MSZ-EF50VGK | | | ● | ● | ● | ● | ● | ● | ● | | | |
| MSZ-AY15VGK | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| MSZ-AY20VGK | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| MSZ-AY25VGK | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| MSZ-AY35VGK | | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| MSZ-AY42VGK | | | ● | ● | ● | ● | ● | ● | ● | | | |
| MSZ-AY50VGK | | | ● | ● | ● | ● | ● | ● | ● | | | |
| MSZ-AP60VGK | | | | | ● | ● | ● | ● | ● | | | |
| MSZ-AP71VGK | | | | | | | ● | ● | ● | | | |
| MSZ-HR25VF | | | | | | | | | | ● | ● | ● |
| MSZ-HR35VF | | | | | | | | | | ● | ● | ● |
| MSZ-HR50VF | | | | | | | | | | | | ● |
| Floor Mounted | | | | | | | | | | | | |
| MFZ-KT25VG | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| MFZ-KT35VG | | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| MFZ-KT50VG | | | | ● | ● | ● | ● | ● | ● | | | |
| SFZ-M25VA | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| SFZ-M35VA | | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| SFZ-M50VA | | | | ● | ● | ● | ● | ● | ● | | | |
| SFZ-M60VA | | | | | | ● | ● | ● | ● | | | |
| SFZ-M71VA | | | | | | | ● | ● | ● | | | |
| Ceiling Cassette | | | | | | | | | | | | |
| SLZ-M15FA2 | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| SLZ-M25FA2 | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| SLZ-M35FA2 | | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| SLZ-M50FA2 | | | | ● | ● | ● | ● | ● | ● | | | |
| Ceiling Concealed Ducted | | | | | | | | | | | | |
| SEZ-M25DA2 | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| SEZ-M35DA2 | | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| SEZ-M50DA2 | | | | ● | ● | ● | ● | ● | ● | | | |
| SEZ-M60DA2 | | | | | ● | ● | ● | ● | ● | | | |
| SEZ-M71DA2 | | | | | | | ● | ● | ● | | | |
| PEAD-M35JA2 | | | | ● | ● | ● | ● | ● | ● | | | |
| PEAD-M50JA2 | | | | ● | ● | ● | ● | ● | ● | | | |
| PEAD-M60JA2 | | | | | | | ● | ● | ● | | | |
| PEAD-M71JA2 | | | | | | | ● | ● | ● | | | |
| Ceiling Suspended | | | | | | | | | | | | |
| PCA-M50KA2 | | | | | ● | ● | | | | | | |
| PCA-M60KA2 | | | | | ● | ● | | | | | | |

Multi-Splits

MXZ-F

R32 Inverter Heat Pump (3.3-12kW)

Multi-Split Units

The **MXZ-F** Multi-Split system allows up to six M Series or Mr Slim wall mounted, cassette, ducted, floor mounted or ceiling suspended indoor units of different capacities to be operated from a single outdoor unit. This makes it an economic and efficient answer for multi-room applications, whilst also offering space saving benefits.



Key Features & Benefits:

- Up to six indoor units may be connected to a single outdoor unit
- Energy saving inverter controlled outdoor unit adjusts compressor performance to economically match the demand for heating and cooling
- Units may be added within the capacity of the system as requirements change
- Capacities of indoor units may be mixed to suit individual rooms

| MXZ-F - OUTDOOR UNITS | MXZ-2F33VF4 | MXZ-2F42VF4 | MXZ-2F53VF4 | MXZ-3F54VF4 | MXZ-3F68VF4 | MXZ-4F72VF4 | MXZ-4F83VF2 | MXZ-5F102VF2 | MXZ-6F120VF2 | |
|--|---------------------------|------------------|------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|-----------------------------|-------------------------|--------------------|
| NUMBER OF CONNECTABLE INDOOR UNITS | 2 | 2 | 2 | 2-3 | 2-3 | 2-4 | 2-4 | 2-5 | 2-6 | |
| CAPACITY (kW) | Heating (nominal) | 4.0 (1.0-4.1) | 4.5 (1.0-4.8) | 6.4 (1.1-7.0) | 7.0 (2.6-9.0) | 8.6 (2.6-10.6) | 8.6 (3.4-10.7) | 9.3 (3.4-11.6) | 10.5 (4.1-14.0) | 14.0 (3.5-16.5) |
| | Cooling (nominal) | 3.3 (1.1-3.8) | 4.2 (1.1-4.4) | 5.3 (1.1-5.6) | 5.4 (2.9-6.8) | 6.8 (2.9-8.4) | 7.2 (3.7-8.8) | 8.3 (3.7-9.2) | 10.2 (3.9-11.0) | 12.0 (3.5-13.5) |
| | Heating (UK) | 3.32 (0.83-3.40) | 3.74 (0.84-3.99) | 5.38 (0.92 - 5.88) | 5.81 (2.16-7.47) | 7.14 (2.16-8.80) | 7.14 (2.82-8.89) | 7.8 (2.82-9.63) | 8.7 (3.40-11.63) | 11.6 (2.90-13.71) |
| | Cooling (UK) | 3.23 (1.07-3.72) | 4.12 (1.08-4.32) | 5.30 (1.10-5.60) | 5.3 (2.85-6.67) | 6.66 (2.84-8.23) | 7.0 (3.59-8.56) | 8.2 (3.67-9.12) | 10.1 (3.86-10.90) | 11.9 (3.47-13.39) |
| COP / EER (nominal)* | 4.40 / 3.90 | 5.10 / 4.30 | 4.10 / 3.79 | 4.60 / 4.10 | 4.50 / 3.70 | 4.60 / 3.90 | 4.65 / 4.21 | 4.60 / 3.64 | 4.23 / 3.33 | |
| SCOP (ηsh) / SEER (ηsc) (BS EN14825) | 4.00 / 6.10 | 4.60 / 8.69 | 4.6 / 8.6 | 4.61 / 8.52 | 4.12 / 7.96 | 4.07 / 8.13 | 4.72 (185.8%) / 8.51 (337.4%) | 4.65 (183%) / 8.21 (325.4%) | 4.0 (157%) / 6.8 (269%) | |
| ErP ENERGY EFFICIENCY CLASS | Heating/Cooling | A+ / A++ | A++ / A+++ | A++ / A+++ | A++ / A+++ | A+ / A++ | A++ / A+++ | A++ / A++ | A+ / A++ | |
| MAX AIRFLOW (m³/min) | Heating/Cooling | 33.7 / 32.9 | 33.3 / 27.7 | 34.7 / 32.7 | 43.0 / 42.1 | 43.0 / 42.1 | 43.0 / 42.1 | 71 / 55 | 74 / 62 | 77 / 63 |
| SOUND PRESSURE LEVEL (dBA) | Heating/Cooling | 50 / 49 | 50 / 44 | 51 / 46 | 50 / 46 | 53 / 48 | 54 / 48 | 51 / 49 | 56 / 52 | 57 / 55 |
| SOUND POWER LEVEL (dBA) | Cooling | 60 | 59 | 61 | 59 | 63 | 63 | 61 | 65 | 69 |
| DIMENSIONS (mm) | Width x Depth x Height | 800 x 285 x 550 | 800 x 285 x 550 | 800 x 285 x 550 | 840 x 330 x 710 | 840 x 330 x 710 | 840 x 330 x 710 | 950 x 330 x 796 | 950 x 330 x 796 | 950 x 330 x 1048 |
| WEIGHT (kg) | | 33 | 37 | 37 | 58 | 58 | 59 | 62 | 62 | 87 |
| ELECTRICAL SUPPLY | | 220-240v, 50Hz | 220-240v, 50Hz | 220-240v, 50Hz | 220-240v, 50Hz | 220-240v, 50Hz | 220-240v, 50Hz | 220-240v, 50Hz | 220-240v, 50Hz | 220-240v, 50Hz |
| PHASE | | Single | Single | Single | Single | Single | Single | Single | Single | |
| POWER INPUT (kW) | Heating/Cooling (nominal) | 0.909 / 0.846 | 0.88 / 0.98 | 1.56 / 1.40 | 1.52 / 1.32 | 1.91 / 1.84 | 1.87 / 1.85 | 2.00 / 1.97 | 2.28 / 2.80 | 3.31 / 3.60 |
| | Heating/Cooling (UK) | 0.82 / 0.68 | 0.90 / 0.78 | 1.40 / 1.20 | 1.38 / 1.06 | 1.73 / 1.47 | 1.69 / 1.48 | 1.80 / 1.57 | 2.09 / 2.66 | 3.04 / 3.38 |
| STARTING CURRENT (A) | | 4.6 | 4.2 | 7.6 | 7.0 | 10.5 | 10.0 | 8.8 | 12.3 | 16.1 |
| RUNNING CURRENT (A) | Heating/Cooling (MAX) | 4.6 / 4.3 [10.0] | 4.2 / 4.5 [12.2] | 7.1 / 6.2 [10.2] | 7.0 / 5.9 [18.0] | 10.5 / 9.6 [18.0] | 10.0 / 9.5 [18.0] | 8.8 / 8.7 [21.4] | 10.0 / 12.3 [21.4] | 14.5 / 15.7 [29.8] |
| INTERCONNECTING CABLE No. CORES | | 4 Core | 4 Core | 4 Core | 4 Core | 4 Core | 4 Core | 4 Core | 4 Core | |
| TOTAL PIPE LENGTH (m) | | 20 | 30 | 30 | 50 | 60 | 60 | 70 | 80 | |
| MAX PIPE LENGTH PER INDOOR UNIT (m) | | 15 | 20 | 20 | 25 | 25 | 25 | 25 | 25 | |
| MAX HEIGHT DIFFERENCE (m) | | 10 | 15 (10 if OU higher than IU) | 15 (10 if OU higher than IU) | 15 (10 if OU higher than IU) | 15 (10 if OU higher than IU) | 15 (10 if OU higher than IU) | 15 | 15 | |
| CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) - R32 (GWP 675) | | 0.8 / 0.54 (20m) | 1.0 / 0.68 (30m) | 1.0 / 0.68 (30m) | 2.4 / 1.62 (50m) | 2.4 / 1.62 (60m) | 2.4 / 1.62 (60m) | 2.4 / 1.62 (70m) | 2.4 / 1.62 (80m) | |
| FUSE RATING (BS88) – HRC (A) | | 16 | 16 | 16 | 25 | 25 | 25 | 25 | 32 | |

NOTES:

*1 System COP / EER when connected to MSZ-LN / MSZ-AP indoor unit connections. Combined max running current of all indoors on system must not exceed 3A.
The SEZ-M25DA2 cannot be used when the total indoor capacity is equal to the outdoor capacity, i.e. when the capacity ratio is 1.

MXZ-HA

R32 Inverter Heat Pump (4-5kW)

Multi-Split Units

The **MXZ-HA** range of multi-split outdoor units connect to our MSZ-HR classic wall mounted indoor units. Together they form exceptional value small multi-split systems, that can be used in a wide range of applications such as residential spaces, small offices and light commercial premises.



Key Features & Benefits:

- 2 or 3 MSZ-HR indoor units can be connected to a single outdoor unit
- Available in 4 or 5kW capacities, covering a wide range of applications
- With a total system pipe length of 30-50m, these units offer flexible installation options
- MSZ-HR connection only

| MXZ-HA - OUTDOOR UNITS | | MXZ-2HA40VF2 | MXZ-2HA50VF2 | MXZ-3HA50VF2 |
|--|---------------------------|------------------------------|------------------------------|------------------------------|
| NUMBER OF CONNECTABLE INDOOR UNITS | | 2 | 2 | 2 - 3 |
| CAPACITY (kW) | Heating (nominal) | 4.3 (1.0 - 4.7) | 6.0 (1.0 - 6.4) | 6.0 (2.6 - 7.5) |
| | Cooling (nominal) | 4.0 (1.1 - 4.3) | 5.0 (1.1 - 5.4) | 5.0 (2.9 - 6.5) |
| | Heating (UK) | 3.61 (0.84 - 3.95) | 5.04 (0.84 - 5.38) | 5.04 (2.18 - 6.30) |
| | Cooling (UK) | 4.00 (1.10 - 4.30) | 5.00 (1.10 - 5.40) | 4.50 (2.61 - 5.85) |
| COP / EER (nominal)*1 | | 4.73 / 3.81 | 3.90 / 3.29 | 4.62 / 3.97 |
| SCOP (ηsh) / SEER (ηsc) (BS EN14825) | | 4.30 / 8.12 | 4.30 / 7.78 | 4.02 / 7.26 |
| ErP ENERGY EFFICIENCY CLASS | Heating/Cooling | A+ / A++ | A+ / A++ | A+ / A++ |
| MAX AIRFLOW (m³/min) | Heating/Cooling | 33.5 / 28.4 | 34.7 / 32.7 | 29.1 / 31.0 |
| SOUND PRESSURE LEVEL (dBA) | Heating/Cooling | 50 / 44 | 51 / 47 | 50 / 46 |
| SOUND POWER LEVEL (dBA) | Cooling | 59 | 64 | 61 |
| DIMENSIONS (mm) | Width x Depth x Height | 800 x 285 x 550 | 800 x 285 x 550 | 840 x 330 x 710 |
| WEIGHT (kg) | | 37 | 37 | 57 |
| ELECTRICAL SUPPLY | | 220-240V, 50Hz | 220-240V, 50Hz | 220-240V, 50Hz |
| PHASE | | Single | Single | Single |
| POWER INPUT (kW) | Heating/Cooling (nominal) | 0.91 / 1.05 | 1.54 / 1.52 | 1.30 / 1.26 |
| | Heating/Cooling (UK) | 0.82 / 0.90 | 1.39 / 1.31 | 1.17 / 1.08 |
| STARTING CURRENT (A) | | 7.6 | 7.6 | 6.7 |
| RUNNING CURRENT (A) | | 4.4 / 4.7 [12.2] | 6.6 / 6.5 [12.2] | 5.6 / 5.4 [18.0] |
| INTERCONNECTING CABLE No. CORES | | 4 Core | 4 Core | 4 Core |
| TOTAL PIPE LENGTH (m) | | 30 | 30 | 50 |
| MAX PIPE LENGTH PER INDOOR UNIT (m) | | 20 | 20 | 25 |
| MAX HEIGHT DIFFERENCE (m) | | 15 (10 if OU higher than IU) | 15 (10 if OU higher than IU) | 15 (10 if OU higher than IU) |
| CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) - R32 (GWP 675) | | 0.9 / 0.61 | 0.9 / 0.61 | 1.4 / 0.95 |
| FUSE RATING (BS88) - HRC (A) | | 0 | 0 | 0.2 / 0.14 |

NOTES:
MSZ-HR connection only.

Ventilation

With over 50 years of experience in manufacturing heat recovery ventilation, Mitsubishi Electric knows that the best ventilation systems to maximise the health and wellbeing of occupants need to be quiet and easily maintainable.

The residential range of Lossnay heat recovery systems are easy to install and commission, offer market leading noise levels, and have easily accessible filters.



Residential Lossnay MVHR is designed to extract stale air continuously, quietly and efficiently. While recovering heat energy, Lossnay also reduces condensation issues in homes. This means that the indoor environment is kept free of damp and air pollutants without the need to open windows. Even washing dries quicker.

The Lossnay MVHR also has bespoke filter pockets for ease of filter installation and maintenance, one is for a NOx (nitrogen oxide) filter and the other can be upgraded to a particulate matter filter, both pollutants are particularly harmful to people, so filtration means that buildings, even in the most polluted environments, can benefit from clean, healthy air.

A built-in automatic summer bypass allows the units to bring in outside air without recovering heat to reduce the risk of overheating. This provides the ideal solution for cooling down a home that may have overheated during the day once the outside temperature has dropped in the evening.



Fresh air benefits include:

- A healthy and better maintained home
- Improved air quality and better health for residents
- Improved comfort via the recovery of heat to incoming fresh air

Low noise for comfort

Residential Lossnay MVHR operates continuously at ultra-low noise levels, so it is an ideal solution for homes and apartments where comfort is essential.



VL-CZPVU-L/R-E

Residential Lossnay

The **VL-CZPVU-L/R-E** residential Lossnay range of Mechanical Ventilation with Heat Recovery (MVHR) units create an environment of constant clean and healthy air at home.

These systems are designed to continuously extract from bathrooms, kitchens, toilets and utility rooms where air can become polluted, whilst supplying a balanced flow of fresh air from outside to spaces such as bedrooms and living rooms. The Lossnay unit minimises the energy lost by recovering the heat from the extracted air, transferring this to the supplied fresh air.



Key Features & Benefits:

- Ultra quiet noise levels
- Optional filters placed within the MVHR unit for particulate matter and NOx
- Full summer bypass function with auto mode and settable temperature parameters
- Digital controller included for ease of commissioning and use
- Boost signal via live switch or volt free contact, with settable delay and overrun timers
- Optional cloud control for connection to MELCloud and smart devices
- Suitable for use in individual houses or in multi-residential apartment applications

| Model | | VL-250CZPVU-L/R-E | VL-350CZPVU-L/R-E | VL-500CZPVU-L/R-E | VL-520CZPVU-L/R-E |
|--|------------------------|-------------------|-------------------|-------------------|-------------------|
| DIMENSIONS (mm) | Width x Depth x Height | 595 x 386 x 565 | 658 x 462 x 623 | 725 x 586 x 632 | 725 x 586 x 632 |
| WEIGHT (kg) | | 26 | 32 | 39 | 39 |
| ELECTRICAL POWER SUPPLY | | 220-240V 50Hz | 220-240V 50Hz | 220-240V 50Hz | 220-240V 50Hz |
| MAX RUNNING CURRENT (A) | | 1.0 | 1.32 | 2.3 | 2.4 |
| SUMMER BYPASS | | Full Bypass | Full Bypass | Full Bypass | Full Bypass |
| SPIGOT DIAMETER (mm) | | 125 | 150 | 160 / 180 | 160 / 180 |
| STANDARD FILTER (ISO 16890:2016/EN779:2012) | Outside Air | Coarse 55% / G3 | Coarse 55% / G3 | Coarse 55% / G3 | Coarse 55% / G3 |
| | Return Air | Coarse 55% / G3 | Coarse 55% / G3 | Coarse 55% / G3 | Coarse 55% / G3 |
| OPTIONAL FILTER(S) | Supply Air | NOx 90% | NOx 90% | NOx 90% | NOx 90% |
| | Outside Air | ePM2.5 50% | ePM2.5 50% | ePM2.5 50% | ePM2.5 50% |

| Model | SFP W/(l/s) | Heat exchange efficiency (%) | SFP W/(l/s) | Heat exchange efficiency (%) | SFP W/(l/s) | Heat exchange efficiency (%) | SFP W/(l/s) | Heat exchange efficiency (%) |
|----------------|-------------|------------------------------|-------------|------------------------------|-------------|------------------------------|-------------|------------------------------|
| K + 1 (21 l/s) | 0.62 | 90 | 0.86 | 90 | 0.80 | 91 | 0.80 | 87 |
| K + 2 (29 l/s) | 0.67 | 89 | 0.80 | 90 | 0.72 | 90 | 0.74 | 88 |
| K + 3 (37 l/s) | 0.79 | 88 | 0.84 | 89 | 0.74 | 90 | 0.76 | 88 |
| K + 4 (45 l/s) | 1.00 | 87 | 0.96 | 89 | 0.82 | 89 | 0.84 | 88 |
| K + 5 (53 l/s) | 1.19 | 87 | 1.08 | 88 | 0.91 | 88 | 0.94 | 87 |
| K + 6 (61 l/s) | - | - | 1.28 | 87 | 1.09 | 88 | 1.10 | 86 |
| K + 7 (69 l/s) | - | - | - | - | 1.24 | 88 | 1.27 | 86 |

CP-500CM-L/R

Cooling Module

Enhance your home's protection against overheating with the **CP-500CM-L/R** cooling module - perfectly paired with the VL-500CZPVU-L/R-E and VL-520CZPVU-L/R-E residential Lossnay MVHR. This innovative system delivers tempered fresh air to help prevent overheating, supporting compliance with Part O building regulations.

Featuring a self-contained direct expansion system, advanced inverter technology, and lower GWP R32 refrigerant, it provides efficient cooling while meeting sustainability targets. Designed with Part O compliance at its core, it offers flexible activation temperatures, customisable capacity steps, and overshoot temperature controls, giving you total confidence in maintaining compliant indoor conditions.



Key Features & Benefits:

- Multi-zone activation - connect up to four room temperature sensors to detect cooling requirements from different areas
- Low system height - efficient use of space, maximising a home's floor area by allowing other services to be placed underneath the system
- Quiet performance - enjoy a restful nights sleep even in the hottest summer's without the distraction of excess noise
- Eco-friendly & efficient - the inverter-controlled compressor uses lower GWP R32 refrigerant, delivering powerful cooling while reducing environmental impact
- Hassle-free installation - designed for simplicity, ensuring a smooth and efficient setup process
- Flexible airflow - operational airflow as low as 50l/s allows precise capacity selection for each home's unique needs
- Behind-the-scenes control - ensures adherence to Part O regulations, while preventing unnecessary end-user adjustments

| Model | CP-500CM-L/R | |
|------------------------------|----------------|------------------|
| OPERATION AIR FLOW (l/s) | 50 - 140 | |
| DIMENSIONS (mm) | Module | 725 x 586 x 500 |
| | System | 725 x 586 x 1182 |
| WEIGHT (kg) | Module | 38 |
| | System | 77 |
| REFRIGERANT | R32 | |
| REFRIGERANT CHARGE (kg) | 0.55 | |
| COMPRESSOR MANAGEMENT | Inverter | |
| SOUND POWER LEVEL (dB(A)) | 52.4 | |
| DUCT SPIGOT SIZE (mm) | 160 | |
| ELECTRICAL SUPPLY | 220-240V, 50Hz | |
| MAX RUNNING CURRENT (A) | 7.6 | |
| FUSE RATING (BS88) - HRC (A) | 10 | |

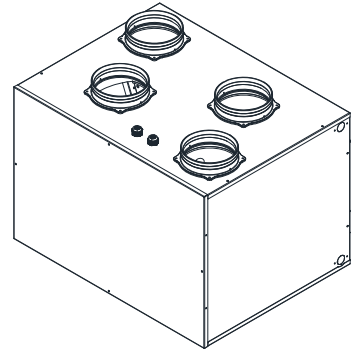
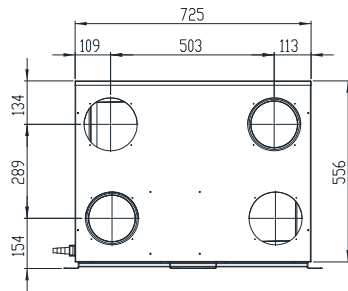
| Model | Procon Overheat Thermostat (OHT) | |
|-------------------|--|-------------------|
| DESCRIPTION | Manages activation and operation of cooling function. Reads internal temperature against set activation point, and manages interlock signals and system status | |
| CONNECT TO | VL-500CZPVU-L/R-E and VL-520CZPVU-L/R-E CP-500CM-L/R | |
| ELECTRICAL SUPPLY | Powered via Lossnay MVHR CN105 | |
| DIMENSIONS (mm) | Width x Depth x Height | 190 x 42 x 180 |
| Weight (kg) | 1.1 | |
| CONTROL | Temperature Input | Up to 4x 10K3A1** |
| | Heating Interlock | VFC |
| | Manual Activation | VFC |
| | Block | VFC |

NOTES: ** 1 x 10K3A1 temperature sensor supplied with Procon OHT. VFC: Volt Free Contact

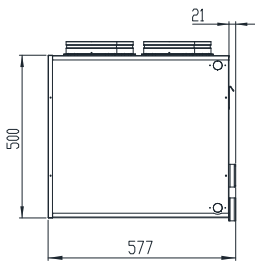
CP-500CM-L/R Dimensions

All dimensions (mm)

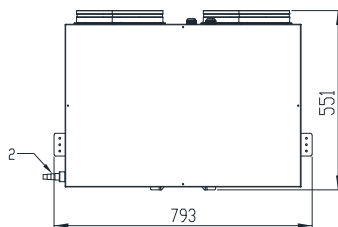
LOWER VIEW



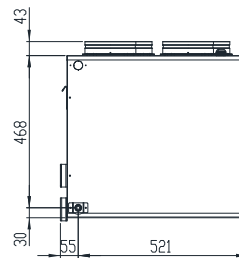
RIGHT SIDE VIEW



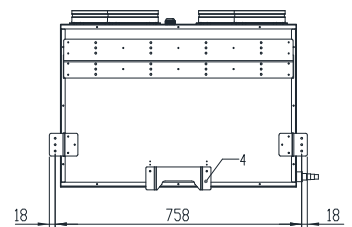
FRONT VIEW



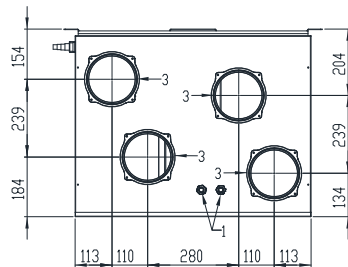
LEFT SIDE VIEW



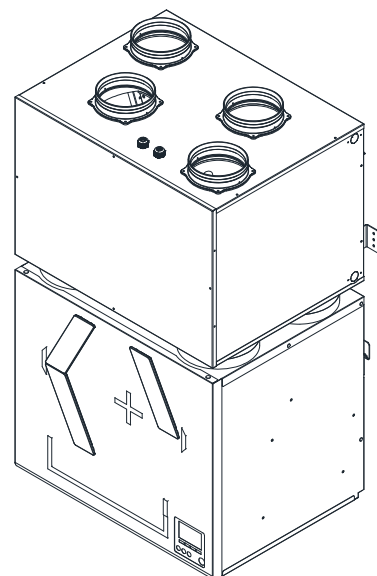
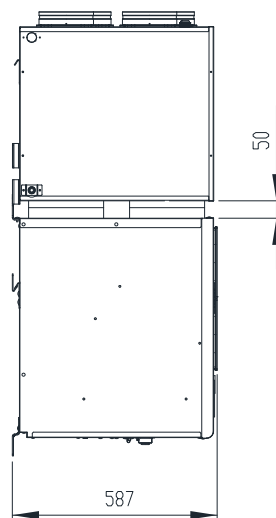
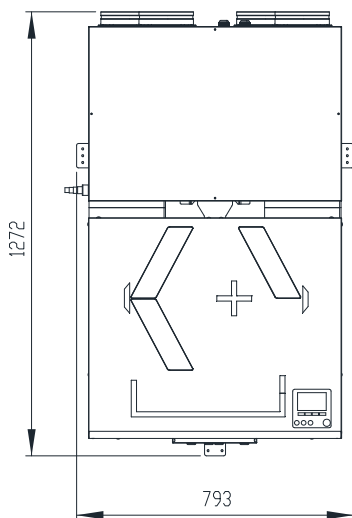
REAR VIEW



UPPER VIEW



- 1.1 - POWER SUPPLY
- 1.2 - CONNECTION TO PROCON OVERHEAT THERMOSTAT (OHT)
- 2 - CONDENSATE DRAIN
- 3 - Ø160mm MALE DUCT
- 4 - INSTALLATION TEMPLATE



Ecodan Hydrodan

R32 Water to Water Heat Pump

The **Ecodan Hydrodan** is a water to water heat pump, designed to produce heating and hot water in residential apartments, and connect to a 5th generation ambient temperature heat network deployed throughout the building. The use of these networks helps to reduce overheating in apartments and also produces negligible distribution losses. The local heat network can be maintained at ambient temperature by a Mitsubishi Electric commercial heat pump, environmental source or connected to a district heat network.



Certificate Number: 037-0101-22
Product (Type): Heat Pumps (Water/Water)
Product Reference: EHWT17D-MHEDW

Key Features & Benefits:

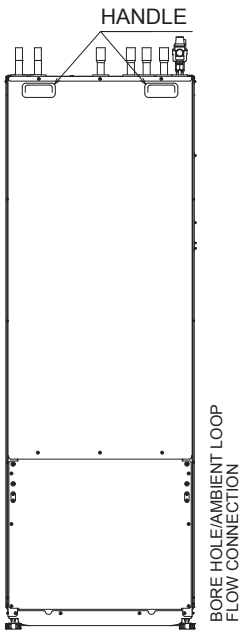
- Removable heat pump module - simple for repairs
- Highly efficient heating and hot water production - low running costs for owners
- Low quantity R32 refrigerant - low environmental impact
- PIC valve network control - simple pressure balancing and flow control
- Ultra-low noise output - no disturbance for owners

| MODEL | | | EHWT17D-MHEDW | |
|---------------------------------------|--|----------------------------|-----------------|-------------|
| CAPACITY INFORMATION | 20 / W35 | Heating Capacity (min-max) | kW | 1.2 - 8.0 |
| | | Power Input (min-max) | kW | 0.3 - 1.0 |
| | | COP (Nom.) | - | 9.2 |
| | L20 / W45 | Heating Capacity (min-max) | kW | 1.1 - 7.5 |
| | | Power Input (min-max) | kW | 0.5 - 1.3 |
| | | COP (Nom.-) | - | 6.3 |
| | L20 / W55 (DHW) | Heating Capacity (DHW) | kW | 6.3 |
| | | Power Input (DHW) | kW | 1.3 |
| | | COP (DHW) | - | 5.0 |
| | L25 / W35 | Heating Capacity (min-max) | kW | 1.5 - 9.3 |
| | | Power Input (min-max) | kW | 0.2 - 1.0 |
| | | COP (Nom.) | - | 11.3 |
| | L25 / W45 | Heating Capacity (min-max) | kW | 1.3 - 8.5 |
| | | Power Input (min-max) | kW | 0.4 - 1.3 |
| COP (Nom.) | | - | 7.8 | |
| L25 / W55 (DHW) | Heating Capacity (DHW) | kW | 6.8 | |
| | Power Input (DHW) | kW | 1.5 | |
| | COP (DHW) | - | 5.4 | |
| Heating Circuit Flow Rate (min - max) | | l/min | 7.1 - 27.7 | |
| LOOP INFORMATION | Control Type | | PICV + Actuator | |
| | Inlet Temperature Range (min - max) | | °C | 10 - 30 |
| | Flow Rate (min - max) | | l/min | 7.2 - 24 |
| | Maximum Loop Pressure Rating | | bar | 10 |
| | Pipe Connection Size | | mm | 28 |
| ELECTRICAL INFORMATION | Voltage/Phase/Frequency | | 230v/1ph/50Hz | |
| | Fuse Rating - Heat Pump/Immersion Heater | | A | |
| | Number of Connections | | - | |
| | Immersion Rating (Tank) | | kW | 3 |
| | Start up Current | | A | 3.1 |
| GENERAL INFORMATION | Unit Dimensions (WxDxH) | | mm | |
| | Compressor Type | | - | |
| | Domestic Hot Water Tank Volume (net) | | l | 170 |
| | Weight (empty) | | kg | 166 |
| | Weight (full) | | kg | 345 |
| | Refrigerant | | - | R32 |
| | Volume of Refrigerant | | kg | 0.9 |
| | Heating Temperature Range | | °C | 20 - 60 |
| | Hot Water Temperature Range | | °C | 40 - 60 |
| | Internal Water Volume Loop Side / Heating Side | | l | 3.16 / 5.47 |
| | Sound Power Level | | dBA | 38 |
| | Sound Pressure Level @1m | | dBA | 27 |

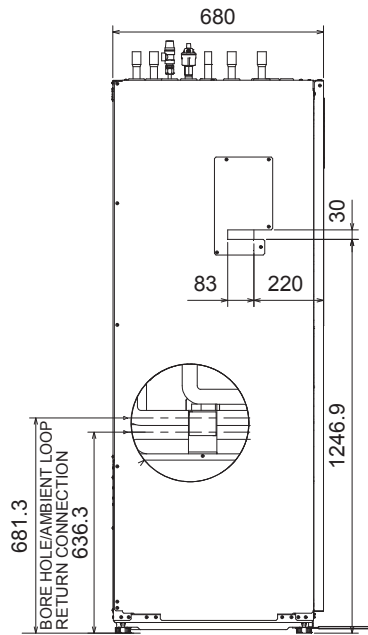
EHWT17D-MHEDW Dimensions

All dimensions (mm)

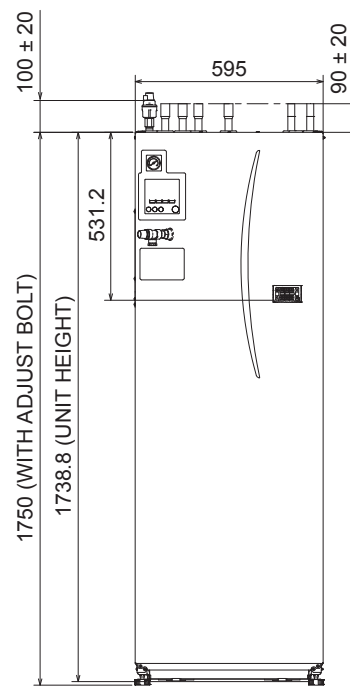
REAR VIEW



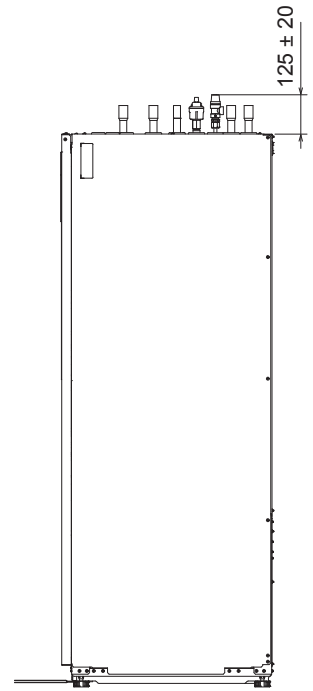
LEFT SIDE VIEW



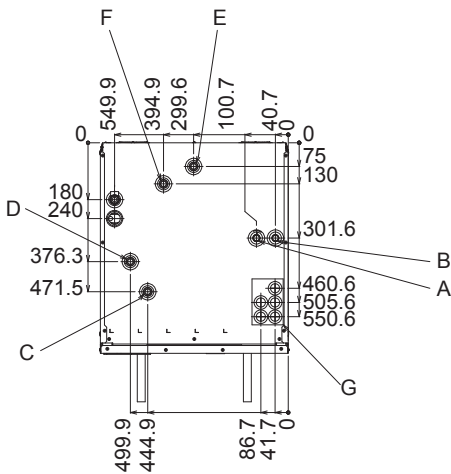
FRONT VIEW



RIGHT SIDE VIEW



UPPER VIEW



| Letter | Pipe description | Connection size/type |
|--------|---------------------------------|---|
| A | DHW outlet connection | 22 mm/Compression |
| B | Cold water inlet connection | 22 mm/Compression |
| C | Space heating return connection | 28 mm/Compression |
| D | Space heating flow connection | 28 mm/Compression |
| E | Ambient loop return connection | 28 mm/Compression |
| F | Ambient loop flow connection | 28 mm/Compression |
| G | Electrical cable inlets | For inlets 1 and 2, run low-voltage wires including external input wires and thermistor wires. For inlets 3, 4 and 5, run high-voltage wires including power cable, and external output wires. *For a wireless receiver (option) cable and ecodan Wi-Fi interface (option) cable, use inlet 1. |

QAHV

R744 Air Source Heat Pump

Specifically designed for commercial sanitary hot water application, where gas boilers, combined heat and power systems (CHP) or electric water heating have been traditionally utilised, the 40kW Ecodan **QAHV** provides a low carbon solution for hotels, apartment blocks, leisure centres, hospitals, care homes, restaurants and education.

Utilising the natural and stable refrigerant CO₂ (R744), the environmentally clean solution enables compliance to strict local planning laws and boosts BREEAM points. With the increasing decarbonisation of the electrical grid, the QAHV provides a high efficiency, low carbon hot water delivery solution with leaving water temperature up to 90°C.



R744



Certificate Number: 037-0112-23
Product (Type): Outdoor Air/Water
Product Reference: QAHV-N560YA-HPB

Key Features & Benefits:

- High efficiency at high flow temperatures
- Utilises CO₂ refrigerant which has a GWP of 1
- Uses a unique twisted and spiral gas cooler to enhance energy efficiency
- Full heating capacity down to -3°C outdoor temperature and operates down to -25°C
- Super low noise levels
- Able to utilise with an indirect system

| MODEL | | QAHV-N560YA-HPB |
|---------------------------------------|--|-----------------------------------|
| WATER HEATING ¹ | Capacity (kW) | 40 |
| | Power Input (kW) | 10.31 |
| | Current Input (A) | 16.3 |
| | COP | 3.88 |
| WATER HEATING 65°C ² | Capacity (kW) | 40 |
| | Power Input (kW) | 10.97 |
| | Current Input (A) | 18.3 |
| | COP | 3.65 |
| WATER HEATING 65°C ³ | Capacity (kW) | 40 |
| | Power Input (kW) | 11.6 |
| | Current Input (A) | 18.7 |
| | COP | 3.44 |
| WATER HEATING ENERGY EFFICIENCY CLASS | For Medium Temperature Application | A |
| | Inlet Water Temperature (°C) | 5 ~ 63 |
| | Outlet Water Temperature (°C) | 55 ~ 90 |
| | Outdoor Temperature (°C) | -25 ~ 43 |
| ELECTRICAL | Max Current Input (A) | 33.8 |
| | Electrical Supply (V / Hz) | 380-415v, 50Hz |
| | Phase | 3 |
| | Fuse Rating - MCB sizes (A) ⁵ | 40 |
| WATER DETAIL | Inlet / Outlet (mm (in.)) | 19.05 (Rc 3/4") / 19.05 (Rc 3/4") |
| | Allowable External Pump Head (kPa) | 77 |
| DIMENSIONS (mm) | Width | 1220 |
| | Depth | 760 |
| | Height | 1837 (1777 without legs) |
| | WEIGHT (kg) | 400 |
| NOISE LEVEL | Sound Pressure ⁴ (dB(A)) | 56 |
| REFRIGERANT | Type | R744 (GWP 1) |
| | Refrigerant Charge (kg) / CO ₂ Equivalent (t) | 6.5 / 0.0065 |

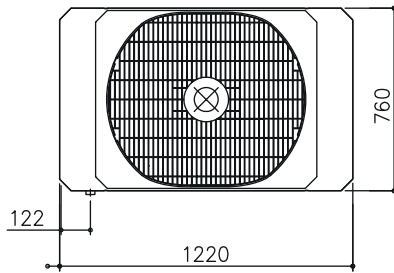
NOTES:

1. Under Normal heating conditions at the outdoor temp, 16°CDB/12°CWB, the outlet water temperature 65°C, and the inlet water temperature 17°C
2. Under Normal heating conditions at the outdoor temp, 7°CDB/6°CWB, the outlet water temperature 65°C, and the inlet water temperature 9°C
3. Under Normal heating conditions at the outdoor temp, 7°CDB/6°CWB, the outlet water temperature 65°C, and the inlet water temperature 15°C
4. Measured 1m from the front of the unit in an anechoic room
5. MCB Sizes BS EN60898-2 & BS EN60947-2

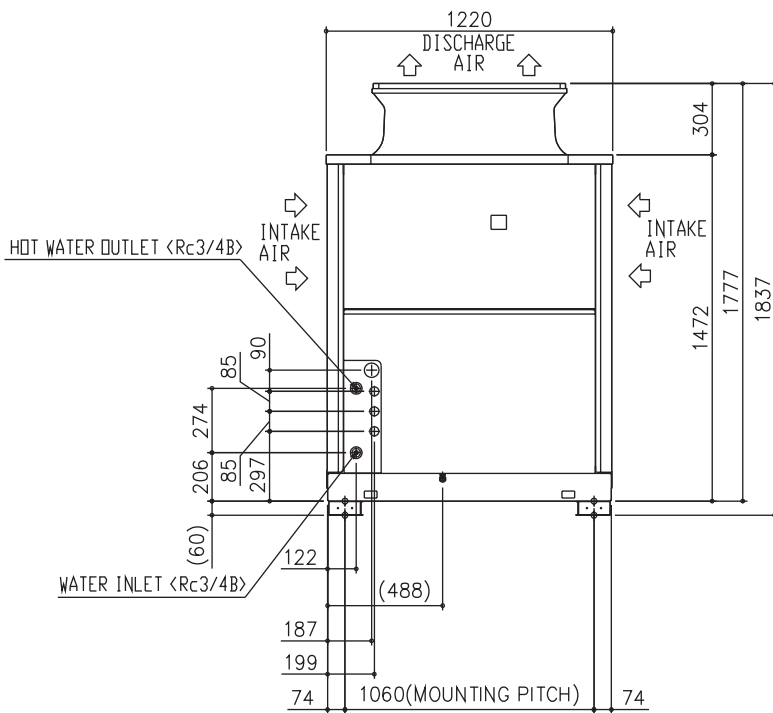
QAHV-N560YA-HPB Dimensions

All dimensions (mm)

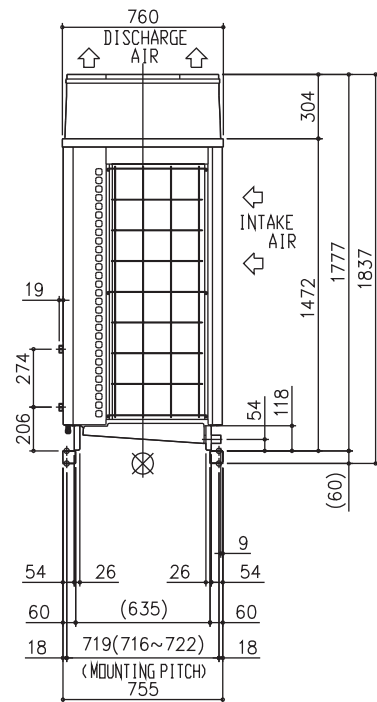
UPPER VIEW



FRONT VIEW



SIDE VIEW



CAHV-Z

R290 Air Source Heat Pump

The Mitsubishi Electric Ecodan **CAHV-Z** air source heat pump utilises low GWP R290 refrigerant, offering a robust, low carbon system for the provision of sanitary hot water and space heating. This innovative heat pump solution can operate as a single system or form part of a multiple unit system, making it suitable for a wide range of commercial applications, including schools and hospitals.

A multiple unit system has the ability to cascade available units on and off to meet the load requirements of a building. As an example of this unique modulation, a 7 unit system allows increments of capacity all the way up to 280kW*. With cascade and rotation built in as standard, the Ecodan CAHV-Z is perfectly set up to reliably generate sustainable space heating and hot water all year round.



R290

Key Features & Benefits:

- Low GWP R290 refrigerant and reduced embodied carbon helps achieve CSR targets
- Achieves 75°C outlet temperature down to -15°C ambient temperature for continuous heating provision
- Multiple unit cascade control up to 280kW* capacity provides design flexibility
- Water flow temperatures from 24°C to 75°C without boost heaters, results in cost and energy savings

* At nominal conditions A7W35

| MODEL | | CAHV-Z450YA-HPB(-BS) |
|--|-------------------------------|--|
| CAPACITY(EN14511) ¹ | kW | 40 |
| TEMPERATURE RANGE | Outlet water temperature | 24 - 75°C |
| | Outdoor temperature | D.B. -25 - 43°C |
| WATER PIPE DIAMETER AND TYPE | Inlet | 38.1 (1 1/2"), screwed-type joint |
| | Outlet | 38.1 (1 1/2"), screwed-type joint |
| EXTERNAL FINISH | | Acrylic painted steel sheet <Munsell 5Y 8/1 or similar> |
| EXTERNAL DIMENSIONS (Width x Depth x Height) | mm | 1750 × 740 × 1710 |
| FAN | Type and quantity | Propeller fan × 2 |
| | Control and driving mechanism | Inverter control, direct driven by motor |
| REFRIGERANT | | R290 |

NOTES:

1. Under normal heating conditions at the outdoor temperature of 7°CDB/6°CWB, the outlet water temperature of 45°C, and the inlet water temperature of 40°C.

CAHV-R

R454C Air Source Heat Pump

The Mitsubishi Electric Ecodan **CAHV-R** air source heat pump utilises low GWP R454C refrigerant, offering a robust, low carbon system for the provision of sanitary hot water and space heating. This innovative heat pump solution can operate as a single system or form part of a multiple unit system, making it suitable for a wide range of commercial applications, including schools and hospitals.

A multiple unit system has the ability to cascade available units on and off to meet the load requirements of a building. As an example of this unique modulation, a 16 unit system allows 0.5kW increments of capacity, from 7.8kW all the way up to 640kW*. With cascade and rotation built in as standard, the Ecodan CAHV-R is perfectly set up to reliably generate sustainable space heating and hot water all year round.



R454C

Key Features & Benefits:

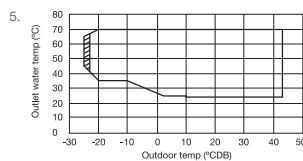
- Low GWP R454C refrigerant and reduced embodied carbon helps achieve CSR targets
- Achieves 70°C outlet temperature down to -20°C ambient temperature for continuous heating provision
- Multiple unit cascade control from 7.8kW to 640kW* capacity provides design flexibility
- Water flow temperatures from 24°C to 70°C without boost heaters, results in cost and energy savings
- Advanced heat exchange design combined with the properties of R454C refrigerant enables a shorter defrost time

* At nominal conditions A7W35

| MODEL | | CAHV-R450YA-HPB(-BS) | |
|--|-------------------------------|--------------------------------------|--|
| POWER SOURCE | | 3-phase 4-wire 380-400-415V 50/60 Hz | |
| CAPACITY (EN14511) ¹ | | kW | 40 |
| | Power input | kW | 14.03 |
| | Current input | A | 23.7-22.5-21.7 |
| | COP (kW/kW) | | 2.85 |
| | SCOP Low/Medium | | 3.57/3.24 |
| CAPACITY ² | | kW | 33.4 |
| | Power input | kW | 16.6 |
| | Current input | A | 28.0-26.6-25.7 |
| | COP (kW/kW) | | 2.01 |
| MAXIMUM CURRENT INPUT | | A | 44.0-41.8-40.3 |
| WATER PRESSURE DROP ¹ | | | 10.2 kPa (1.47 psi) |
| TEMPERATURE RANGE ⁵ | Outlet water temperature | | 24 - 70°C |
| | Outdoor temperature | D.B. | -25 - 43°C |
| CIRCULATING WATER VOLUME RANGE ⁵ | | | 25 l/min - 250 l/min |
| SOUND PRESSURE LEVEL (MEASURED 1M BELOW THE UNIT IN AN ANECHOIC ROOM) ^{1,4} | | dB(A) | 64 |
| SOUND PRESSURE LEVEL (MEASURED 1M BELOW THE UNIT IN AN ANECHOIC ROOM) ^{3,4} | | dB(A) | 72 |
| WATER PIPE DIAMETER AND TYPE | Inlet | mm (in) | 38.1 (1 1/2"), housing type joint |
| | Outlet | mm (in) | 38.1 (1 1/2"), housing type joint |
| EXTERNAL FINISH | | | Acrylic painted steel sheet <Munsell 5Y 8/1 or similar> |
| EXTERNAL DIMENSIONS (WIDTH X DEPTH X HEIGHT) | | mm | 1750 x 740 x 1710 |
| NET WEIGHT | | kg | 359 |
| DESIGN PRESSURE | R454C | MPa | 3.85 |
| | Water | MPa | 1.0 |
| HEAT EXCHANGER | Water-side | | Copper brazed stainless steel sheet |
| | Air-side | | Plate fins and copper tubes |
| COMPRESSOR | Type | | Inverter scroll hermetic compressor |
| | Manufacturer | | MITSUBISHI ELECTRIC CORPORATION |
| | Starting method | | Inverter |
| | Motor output | kW | 12.1 |
| FAN | Lubricant | | FVC32EA |
| | Air flow rate | L/s | 2500 × 2 |
| | External static pressure | | 10 Pa (1mm H2O) |
| | Type and quantity | | Propeller fan × 2 |
| | Control and driving mechanism | | Inverter control, direct driven by motor |
| | Motor output | kW | 0.92 × 2 |
| HIC (HEAT INTER-CHANGER) CIRCUIT | | | Copper pipe |
| PROTECTION DEVICES | High pressure | | High-pressure sensor and switch set at 3.85 MPa (643 psi) |
| | Inverter circuit | | Overheat and overcurrent protection |
| | Compressor | | Overheat protection |
| | Fan motor | | Thermal switch |
| DEFROSTING METHOD | | | Auto-defrost mode (Reversed refrigerant cycle) |
| REFRIGERANT | Type and factory charge | kg | R454C, 9.0 kg |
| | Flow and temperature control | | LEV and HIC circuit |

NOTES:

- Under normal heating conditions at the outdoor temperature of 7°CDB/6°CWB, the outlet water temperature of 45°C, and the inlet water temperature of 40°C.
- Under normal heating conditions at the outdoor temperature of -5°CDB/-6°CWB and the outlet water temperature of 55°C.
- Under normal heating conditions at the outdoor temperature of 7°CDB/6°CWB when the unit is set to the "Capacity Priority" mode through the dry NC-contact.
- The sound pressure level is a value measured in an anechoic room in accordance with the conventional method in JRA4060.



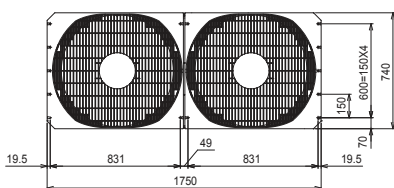
Outdoor temp, 25°CDB/Outlet water temp, 45-65°C
 Outdoor temp, 20°CDB/Outlet water temp, 35-70°C
 Outdoor temp, 43°CDB/Outlet water temp, 24-70°C

- 4.0 - 15.0 m³/h under the following conditions:
 - When the outdoor temperature is below 0°C,
 - When the outlet water temperature is 30°C or below AND the outdoor temperature is 6°C or below.

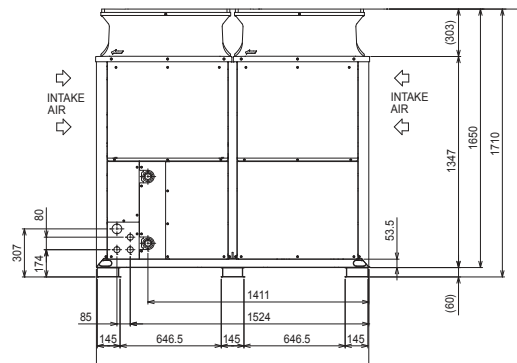
CAHV-R450YA-HPB(-BS) Dimensions

All dimensions (mm)

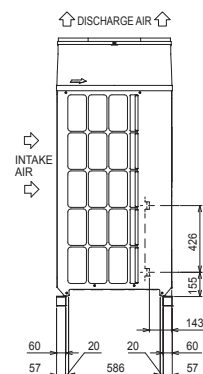
UPPER VIEW



FRONT VIEW



SIDE VIEW



Partner Programme



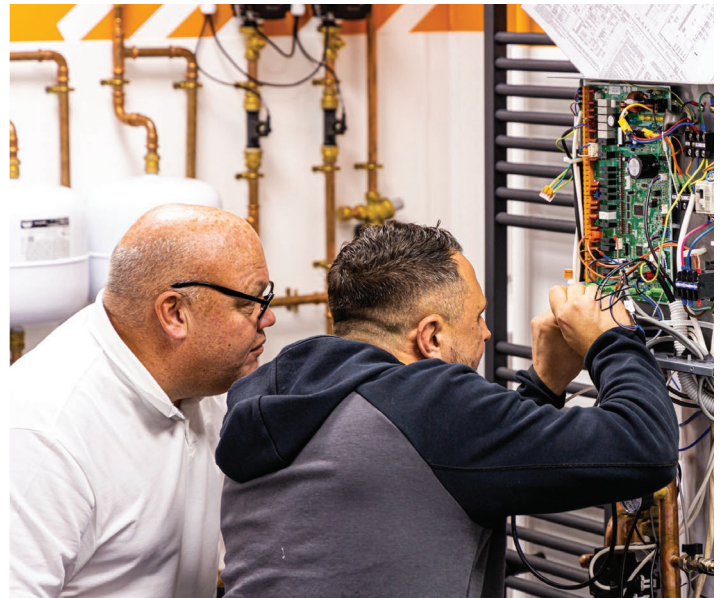
PARTNER
Programme

Partner Programme

The Mitsubishi Electric Partner Programme forges the link between our innovative products and your professional installations.

Once accredited, your company can benefit from our **Relationship Development Fund (RDF)** which will grow with the amount of business you do with us.

This reward scheme was created to financially support joint sales and marketing activities that will help improve and expand your business.



Summary of Accredited Installer Benefits:

■ Showroom Equipment

All partners are eligible to purchase Mitsubishi Electric equipment for their premises and showroom. Once purchased and installed, we will match fund you up to 50% from the RDF programme. Dummy units can be up to 100% RDF funded.

■ Website Development

We can support you in the redesign or updates on of your company's website to include our logos, product shots and information on our product range. Please see our Partner Dashboard for content.

■ Vehicle Livery

Promote your company alongside Mitsubishi Electric on your company vehicles and we will match fund you up to 50% from the RDF programme.

■ Workwear and Promotional Goods

We offer a huge range of items from brands such as Nike, RAB, The North Face, Stanley and more to help you promote your business and Partnership with Mitsubishi Electric. Visit our webshop to see our full range of options that can be up to 50% or 100% RDF funded.

■ Product Training

We offer a variety of training courses, ranging from the apprentice level to the seasoned installer, all of which are designed to enable technical engineers to design, install or maintain our systems. Use 100% RDF to fund your colleagues training sessions with us online or face to face. This includes our new LCL courses.

■ Advertising and Brochures

We are happy to support partners with the production of your company joint promotions, press and brochures using up to 50% RDF.

■ Exhibitions and Seminars

Exhibitions and seminars provide an ideal opportunity to promote your business and show potential customers the benefits of Mitsubishi Electric's product range. We can help you plan, support and contribute towards the costs.

■ Ecodan Selection Tool for Installers

This online tool has a free to access section designed for homeowners and a more immersive section for partners who have registered a request for access. This installer section allows for whole house and room by room designs to be undertaken and will issue a professional report which can be used to support your design process.

■ Customer Hospitality

Developing business relationships in an informal environment can be mutually beneficial to both you and your clients. We will match fund qualified customer hospitality activity via the RDF programme, where a Mitsubishi Electric representative attends. We also now offer 100% RDF events to save the leg work in hosting your customers.

See the Partner Dashboard for our very latest events. Previous events have included the 6 Nations Rugby, NFL, Ashes Cricket and much more. Get in contact to find out about our latest events!

■ Technical Helpdesk

To assist our partners in the repair and maintenance of Mitsubishi Electric equipment, we have a dedicated team of industry experienced engineers based in the UK who will endeavour to speedily diagnose faults and offer solutions to the problems.

Overview of heating benefits per account status

| Product Type | Standard Account Holder (SAH) | Accredited Ecodan Installer (AI) | Business Solutions Partner (BSP) |
|------------------------------------|-------------------------------|--------------------------------------|----------------------------------|
| Ecodan Selection Tool Access | No | Yes | Yes |
| Product Warranty (Ecodan <20kW) | 3 Years | 5 Years* ¹ * ² | 7 Years* ¹ |
| Free Training Sessions (per annum) | 0 | 0* ³ | 5* ³ |

*1 For air source heat pump outdoor units only. *2 Extension from 5 years to 7 years available via a warranty extension package. *3 Training sessions can be 100% funded via RDF. For complete details please consult our T&C.

For further information please contact your Partner Programme Co-ordinator at partner@meuk.mee.com or call **01707 288 757** (Please note this is for direct sales only)

To check your eligibility and become a heating partner with us, please scan the QR code for more information.

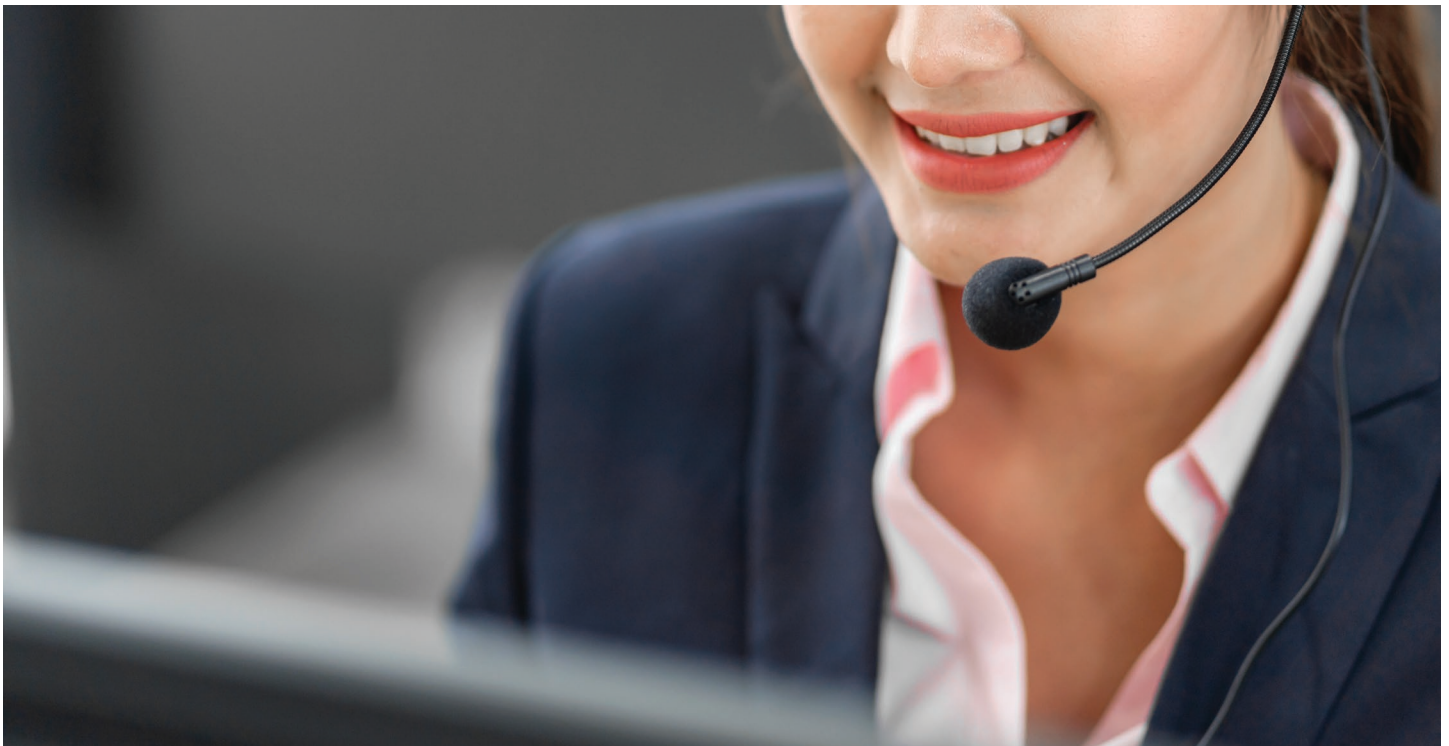


How to contact us



Should you have any question regarding our products and services, please find below a summary sheet of how to contact us.

| | |
|--|---|
| <p>Pre-Sales An Ecodan & Lossnay design service for our partners.</p> | <p>☎ 01707 278 666 (Option 3) ✉ ecodan.technical@meuk.mee.com</p> |
| <p>Sales Team A regional sales service that covers the whole of the UK mainland are available on the following numbers:</p> | <p>☎ South East London: 01707 282 499 South West: 01707 278 022 North West London: 01707 282 489 Scotland & North: 01707 282 487 Midlands & Wales: 01707 278 730</p> <p>✉ 121heating@meuk.mee.com</p> |
| <p>Operations Team We have dedicated resources supporting you managing your orders. Please contact the relevant team using the following details:</p> | <p>Direct Customers: ☎ 01707 278 555 ✉ lesheating.admin@meuk.mee.com</p> <p>Merchants & Distribution: ☎ 01707 282 855 ✉ lesmerchantadmin@meuk.mee.com</p> |



After Sales

A dedicated in-house after sales service for heating professionals.



0161 866 6089

Option 1: Homeowner

Option 2: Support for Air Conditioner, Ventilation, Commercial Heating, Modular Chillers

Option 3: Residential Ecodan installer or service provider



residential.helpdesk@meuk.mee.com

Learning Center

Whether you are trained on Ecodan product and wish to be kept informed on our latest products or are a new installer wishing to learn about our range, we have the right training for you.



lestechtraining@meuk.mee.com

Partner Programme

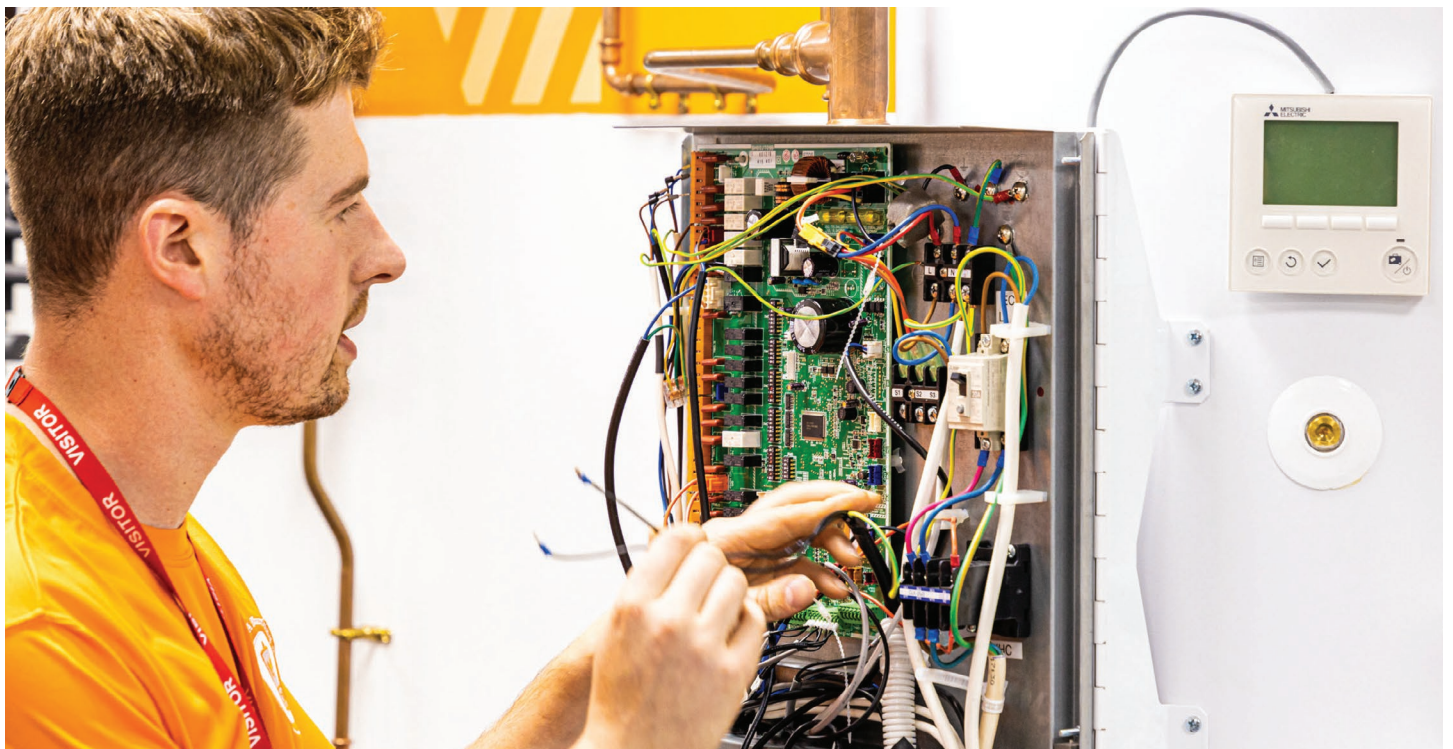
Should you have any interest in becoming a partner and benefiting from our unique range of services, please do not hesitate to contact us.



01707 288 757



partner@meuk.mee.com





Telephone: 01707 282880
email: heating@meuk.mee.com
ecodan.co.uk



@Ecodanheating



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Note: The fuse rating is for guidance only and please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R410A (GWP:2088), R32 (GWP:675), R407C (GWP:1774), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), R515B (GWP:292), R454C (GWP:148), R1234ze (GWP:7) or R1234yf (GWP:4). *These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a hydrocarbon, R290 (GWP:0.02). *These GWP values are based on IPCC 6th edition.

Effective as of October 2025

