



**ecodan**<sup>®</sup>

# Residential Product Catalogue 2025



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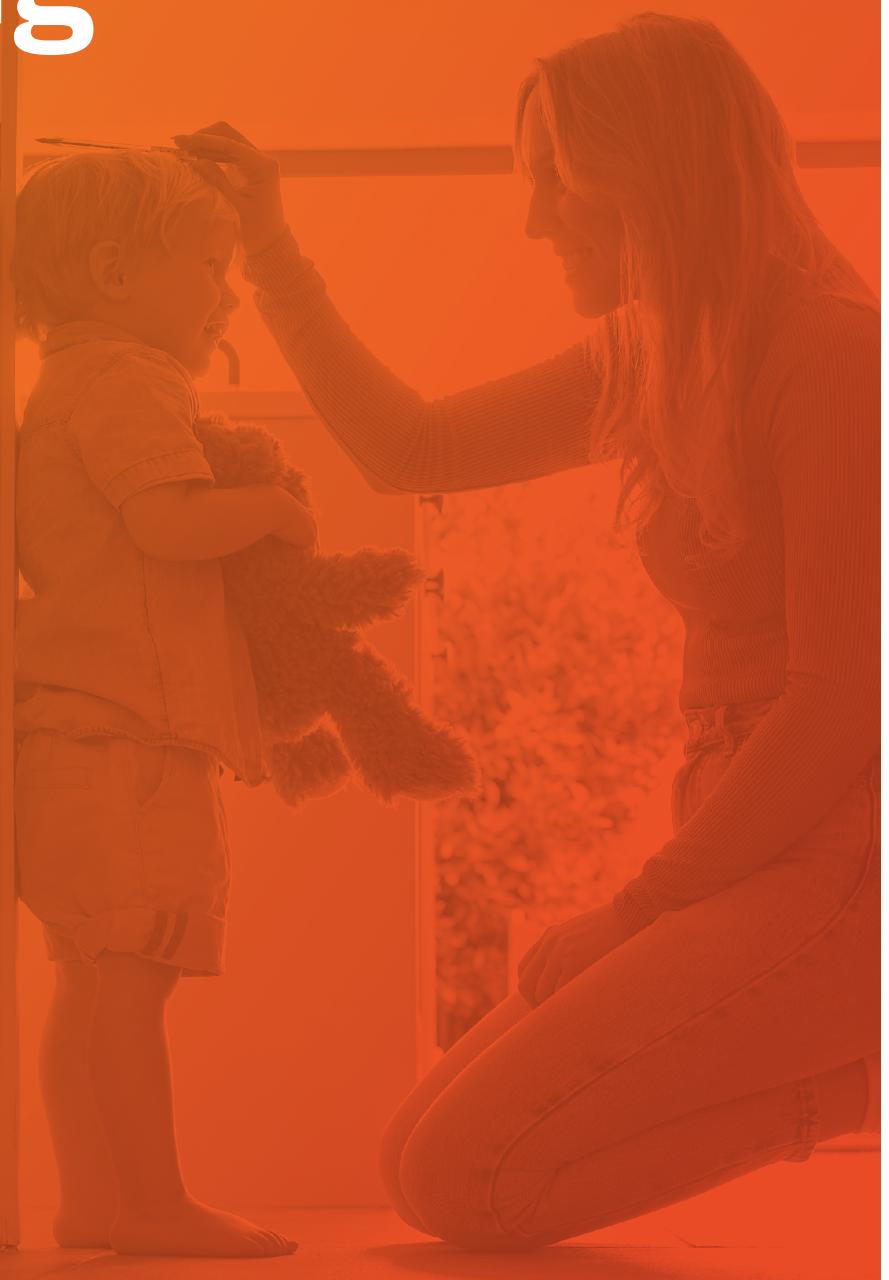
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# Heating



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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.

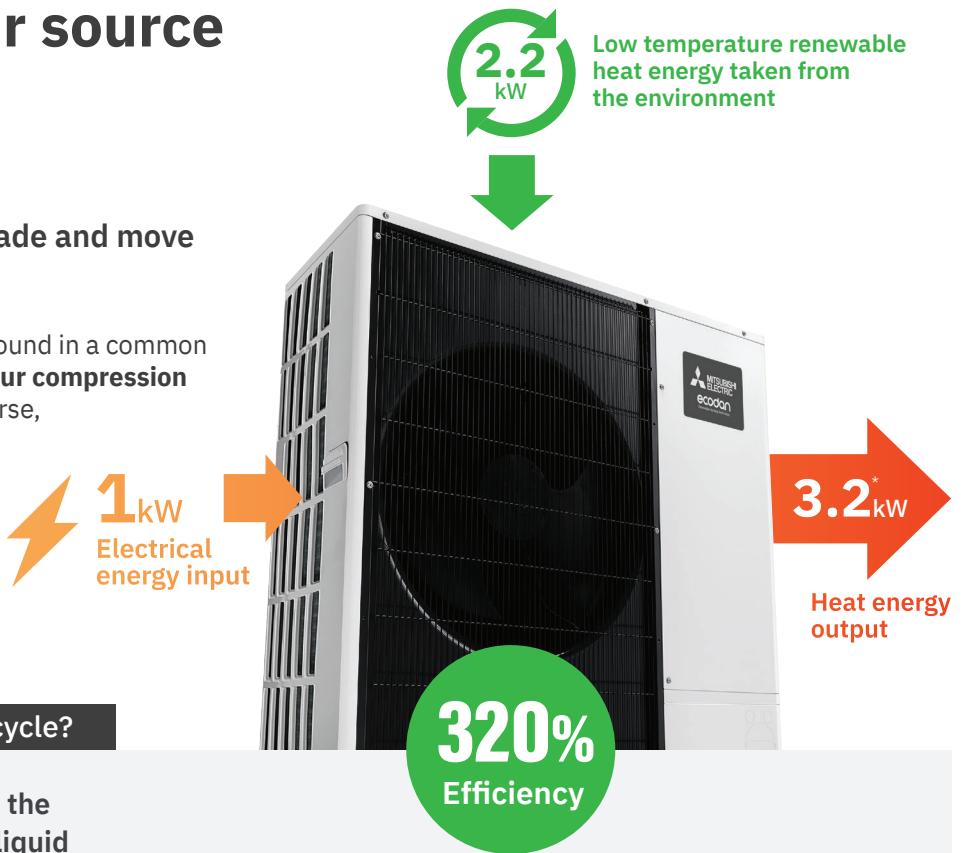
I'm therefore delighted to associate myself with Ecodan, the market-leading brand of heat pumps built here in the UK and which can help reduce energy bills and lower emissions for almost any home. **”**



## How do Ecodan air source heat pumps work

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

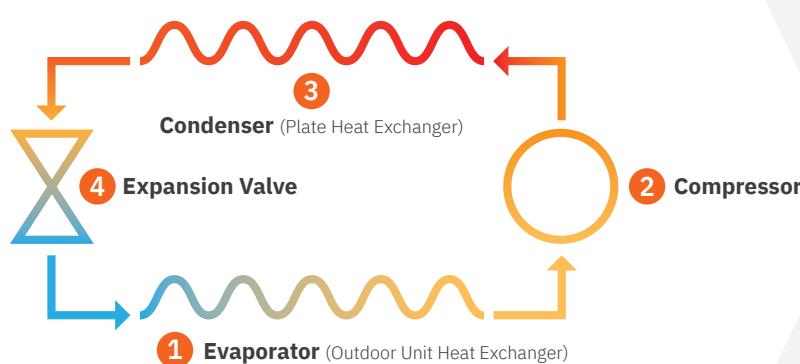
Using technology similar to that which is found in a common domestic fridge, heat pumps use the **vapour compression cycle** to generate heat. When used in reverse, this cycle provides the ability to take low temperature renewable heat from the environment and raise it to usable temperatures capable 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  $-46^{\circ}\text{C}$ , there is still plenty of energy in the air on a cold day to make the process work.

\*As independently tested by BSI 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
<b>FTC7 Standalone</b>		PAC-IF082B-E		●	●	●
<b>FTC7 Packaged Cylinder</b>		EHPT20X-MEHEW	200	●	●	●
<b>FTC7 Pre-Plumbed Slimline Cylinder</b>		EHPT15X-UKHLEWS	150	●	●	●
		EHPT17X-UKHLEWS	170	●	●	●
<b>FTC7 Pre-Plumbed Standard Cylinder</b>		EHPT15X-UKHEWS	150	●	●	●
		EHPT17X-UKHEWS	170	●	●	●
		EHPT21X-UKHEWS	210	●	●	●
		EHPT21X-UKHEWL	210		●	●
		EHPT25X-UKHEWL	250		●	●
		EHPT30X-UKHEWL	300			
<b>Ecodan Hydrodan (Water Loop Technology)</b>		EHWT17D-MHEDW	170			
<b>Approvals</b>	    	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



PU2-W2651AA	PU2-WM1851AA	PU2-W21001AA	PU2-WM1127AA	PU2-W21201AA	PU2-TW11401AA			
8.5kW	8.5kW	10kW	11.2kW	12kW	14kW	40kW	40kW	40kW
●	●	●	●	●	●			
●	●	●	●	●	●			
●	●							
●	●							
●	●							
●	●							
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●	●	●	●	●	●			



# 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



Manufactured in the UK



037-0033-20-01



reddot design award

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

#### NOTES:

<sup>1</sup> Combination with EHPT20X-MEHEW Cylinder

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

<sup>3</sup> 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.

<sup>4</sup> Sound power level tested to BS EN12102.

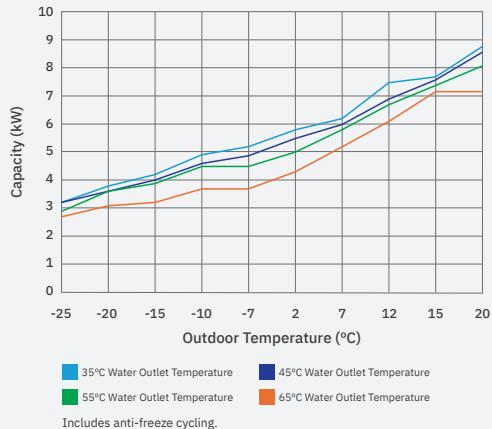
<sup>5</sup> Under nominal heating conditions at outdoor temp: 7°C, outlet water temp: 35°C.

<sup>6</sup> MCB Sizes BS EN60898-2 & BS EN60947-2.

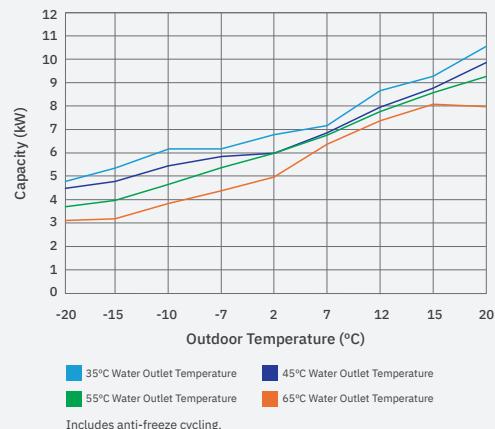
$\eta_s$  is the seasonal space heating energy efficiency (SSHEE)    $\eta_{wh}$  is the water heating energy efficiency

# Heating

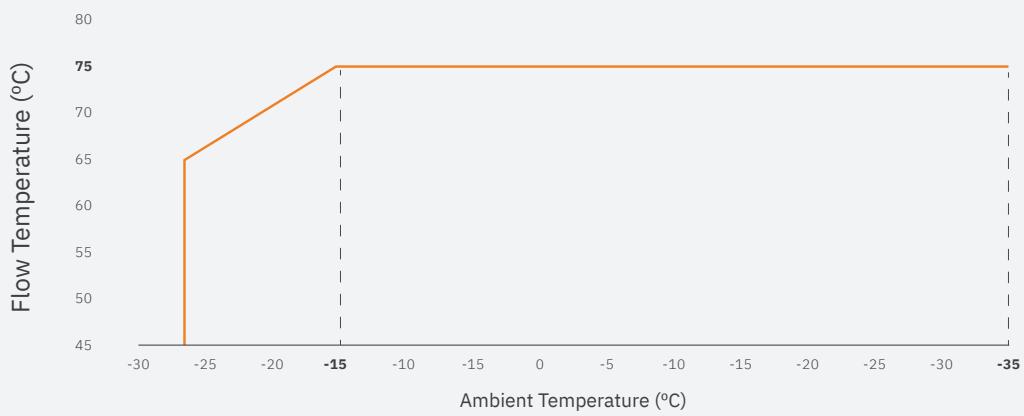
## PUZ-WZ50VAA Capacities



## PUZ-WZ60VAA Capacities



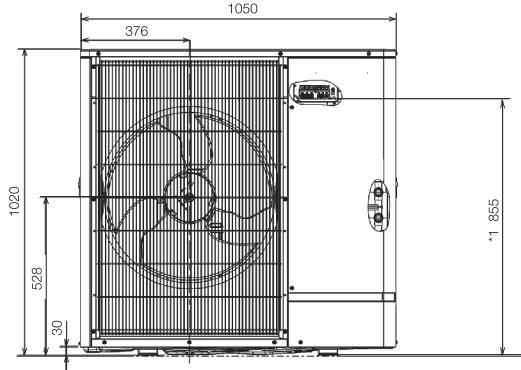
## PUZ-WZ50-60VAA Flow Temperature



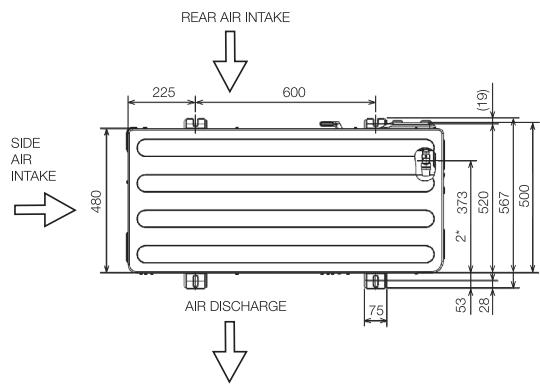
## PUZ-WZ50-60VAA Dimensions

All dimensions (mm)

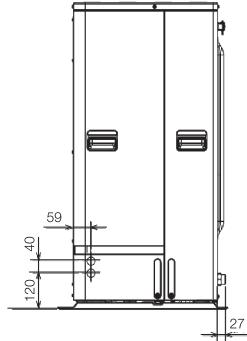
FRONT VIEW



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



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

### NOTES:

<sup>1</sup> Combination with EHPT20X-MEHEW Cylinder

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

<sup>3</sup> 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.

<sup>4</sup> Sound power level tested to BS EN12102.

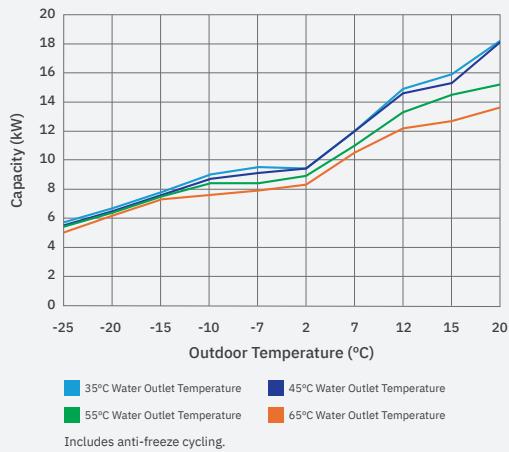
<sup>5</sup> Under nominal heating conditions at outdoor temp: 7°C, outlet water temp: 35°C.

<sup>6</sup> MCB Sizes BS EN60898-2 & BS EN60947-2.

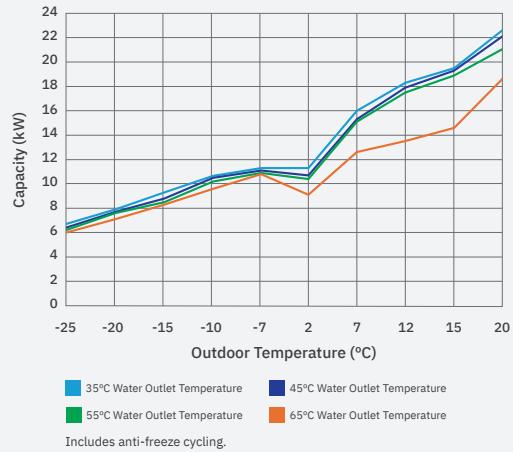
$\eta_s$  is the seasonal space heating energy efficiency (SSHEE)    $\eta_{wh}$  is the water heating energy efficiency

## Heating

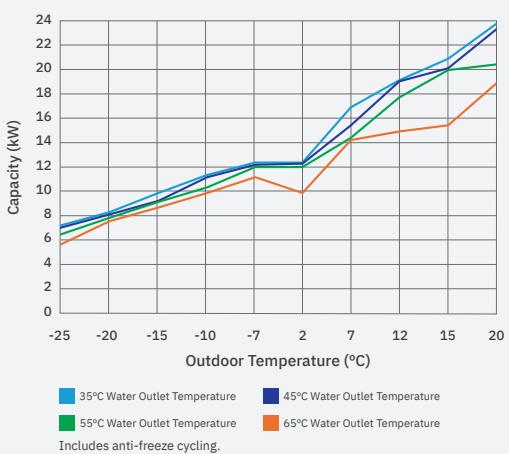
### PUZ-WZ85V/YAA Capacities



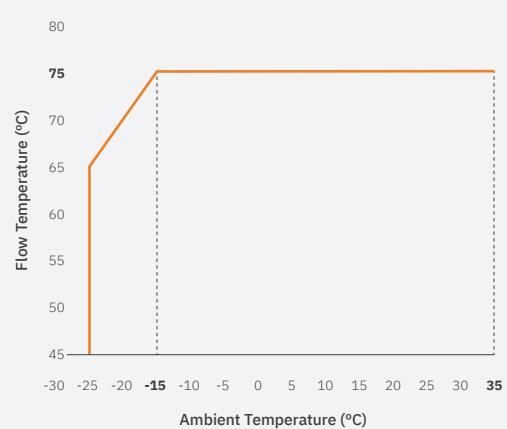
### PUZ-WZ100V/YAA Capacities



### PUZ-WZ120V/YAA Capacities



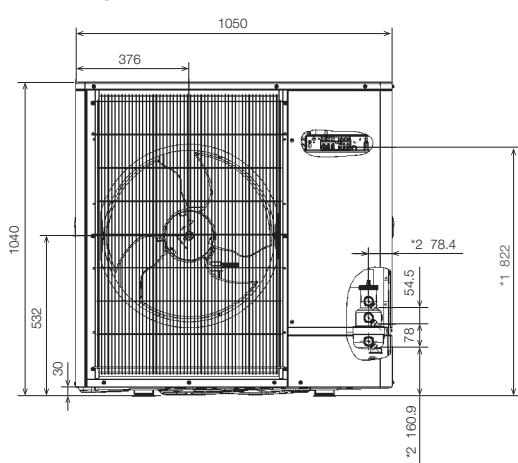
### PUZ-WZ85-100-120V/YAA Flow Temperature



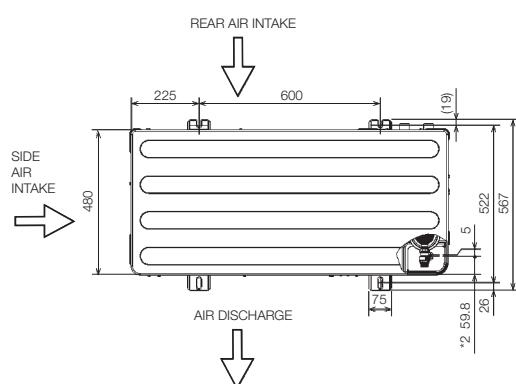
### PUZ-WZ85/100/120 V/YAA Dimensions

All dimensions (mm)

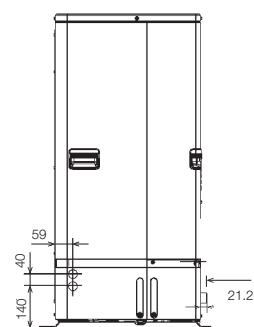
FRONT VIEW



UPPER VIEW



SIDE VIEW





# 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)
	$\eta_s$	129%
	SCOP (MCS)	3.2
HEAT PUMP SPACE HEATER - 35°C	ErP Rating	A+++ (Range A+++ to D)
	$\eta_s$	183%
	SCOP (MCS)	4.
HEAT PUMP COMBINATION HEATER - Large Profile <sup>1</sup>	ErP Rating	A+ (Range A+ to F)
	$\eta_{wh}$	135%
HEATING <sup>2</sup> (A-7/W35)	Capacity (kW)	5.0
	Power Input (kW)	1.67
	COP	3.00
OPERATING AMBIENT TEMPERATURE (°C DB)		-20 ~ +35
SOUND DATA <sup>3</sup>	Pressure Level at 1m (dBA)	52
	Power Level (dBA) <sup>4</sup>	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) <sup>5</sup>	4.64 [13]
	Fuse Rating - MCB Sizes (A) <sup>6</sup>	16
REFRIGERANT CHARGE (kg) / CO <sub>2</sub> EQUIVALENT (t)	R290 (GWP 3)	2.0 / 1.35

### NOTES:

<sup>1</sup> Combination with E-PT20X Cylinder

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

<sup>3</sup> 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.

<sup>4</sup> Sound power level tested to BS EN12102.

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

<sup>6</sup> MCB Sizes BS EN60898-2 & BS EN60947-2.

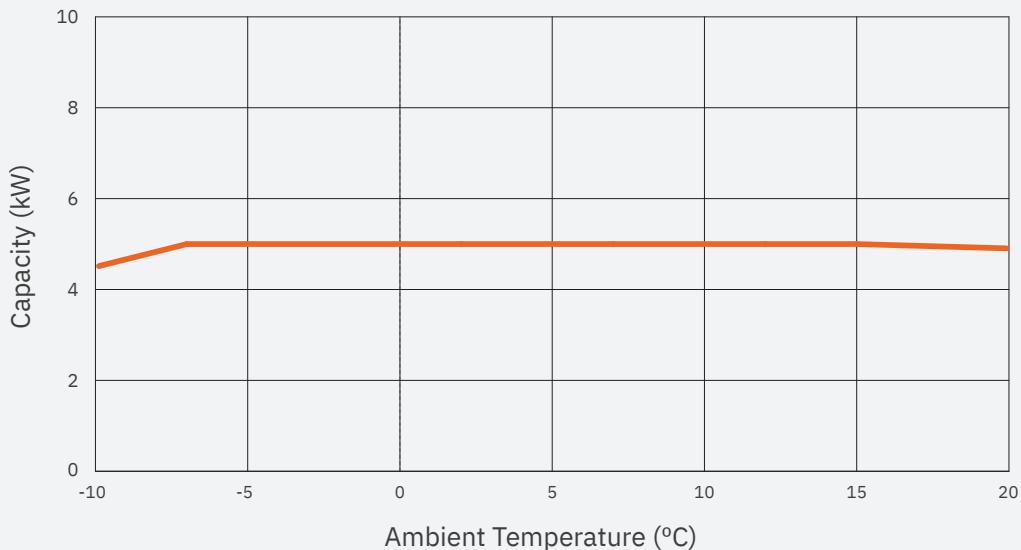
<sup>7</sup> Grille.

$\eta_s$  is the seasonal space heating energy efficiency (SSHEE)  $\eta_{wh}$  is the water heating energy efficiency



## PUZ-WM50VHA(-BS) Nominal Heating Capacity

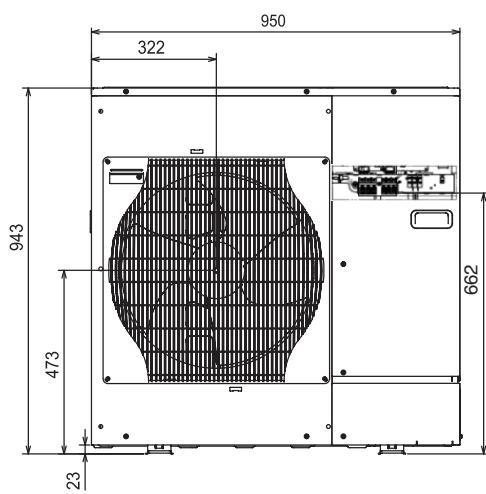
Water Outlet Temperature 45°C



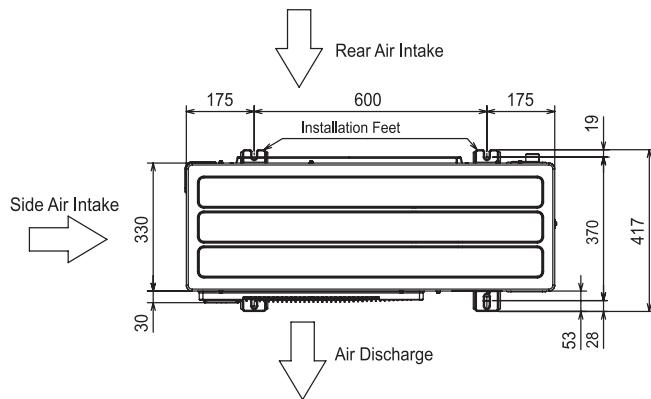
## PUZ-WM50VHA(-BS) Dimensions

All dimensions (mm)

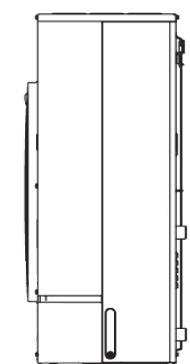
FRONT VIEW



UPPER VIEW



SIDE VIEW



# Ecodan R32

## Monobloc Air Source Heat Pump

(6, 8.5 & 11.2kW)



Key Features:	Key Benefits:
<ul style="list-style-type: none"> <li>■ A+++ heating efficiency (Range A+++ to D)</li> <li>■ Ultra quiet noise levels</li> <li>■ Maintains full heating capacity at low temperatures</li> <li>■ Zero carbon solution</li> </ul>	<ul style="list-style-type: none"> <li>■ Ultra low running cost</li> <li>■ Flexible product placement</li> <li>■ Confident and quick product selection</li> <li>■ Help to tackle the climate crisis</li> <li>■ Remote control, monitoring, maintenance and technical support</li> </ul>



Manufactured in the UK



037-0033-20  
037-0034-20



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

<sup>1</sup> Combination with E\*PT20X Cylinder

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

<sup>3</sup> 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.

<sup>4</sup> Sound power level tested to BS EN12102.

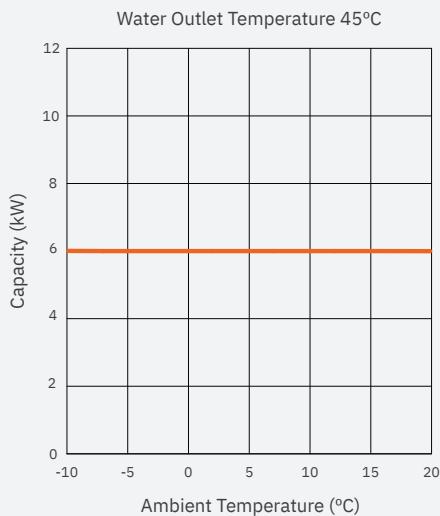
<sup>5</sup> Under nominal heating conditions at outdoor temp: 7°C, outlet water temp: 35°C.

<sup>6</sup> MCB Sizes BS EN60898-2 & BS EN60947-2.

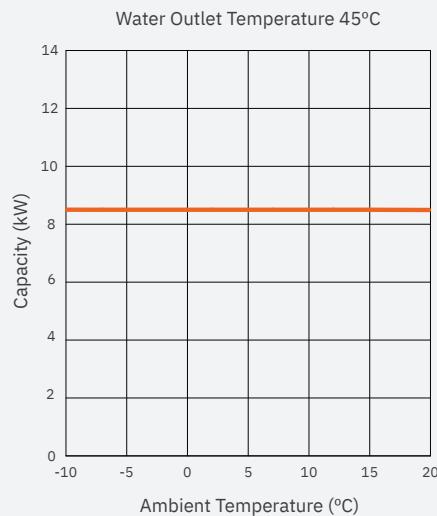
$\eta_s$  is the seasonal space heating energy efficiency (SSHEE)    $\eta_{wh}$  is the water heating energy efficiency

## PUZ-WM60-112VAA/YAA Nominal Heating Capacities

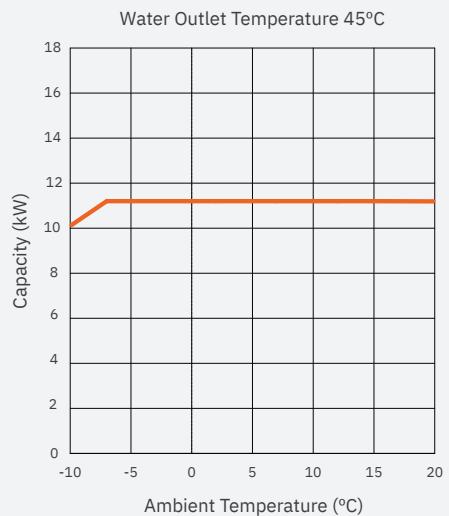
PUZ-WM60VAA(-BS)



PUZ-WM85VAA(-BS)



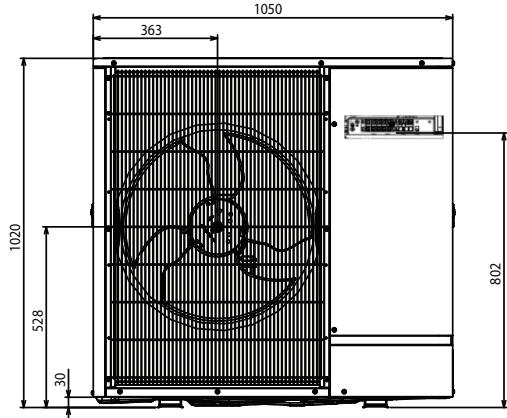
PUZ-WM112VAA(-BS)



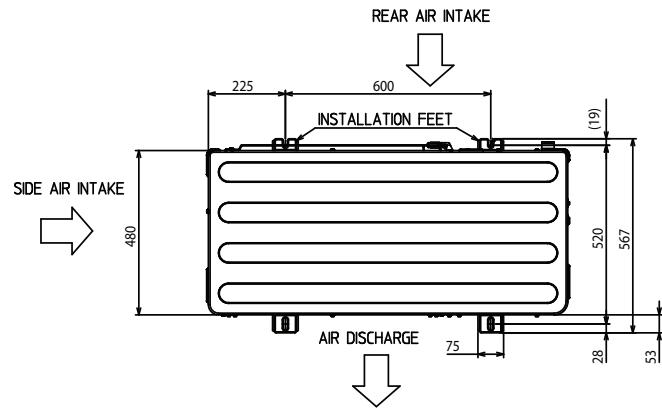
## PUZ-WM60-112VAA/YAA Dimensions

All dimensions (mm)

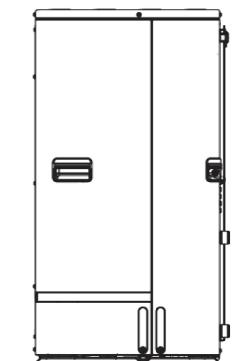
FRONT VIEW



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

### NOTES:

<sup>1</sup> Combination with E-PT20X Cylinder

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

<sup>3</sup> 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.

<sup>4</sup> Sound power level tested to BS EN12102.

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

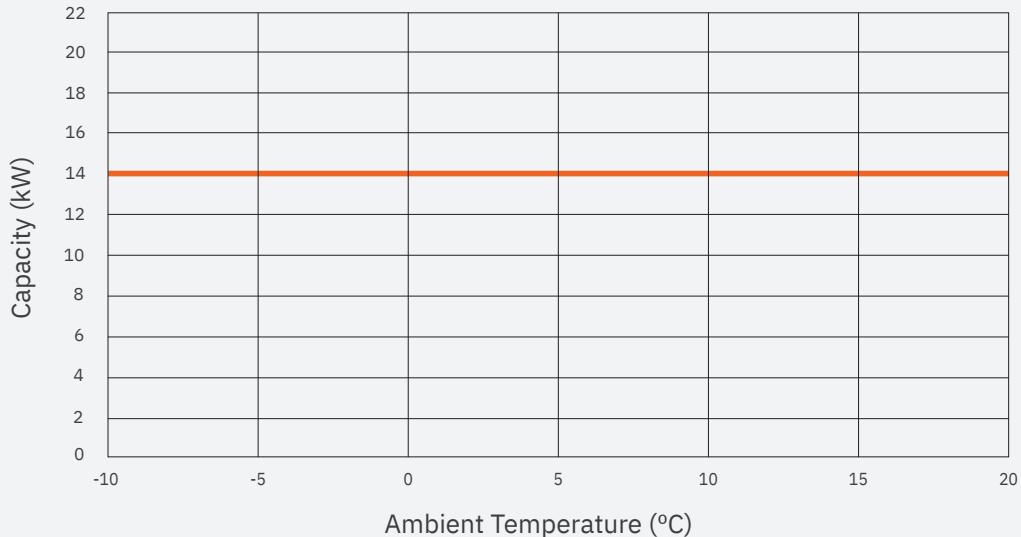
<sup>6</sup> MCB Sizes BS EN60898-2 & BS EN60947-2.

<sup>7</sup> Grille.

$\eta_s$  is the seasonal space heating energy efficiency (SSHEE)    $\eta_{wh}$  is the water heating energy efficiency

## PUZ-HWM140VHA/YHA Nominal Heating Capacity

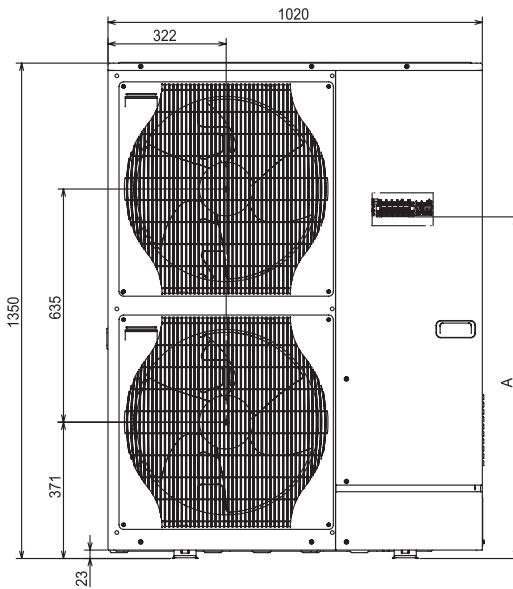
Water Outlet Temperature 45°C



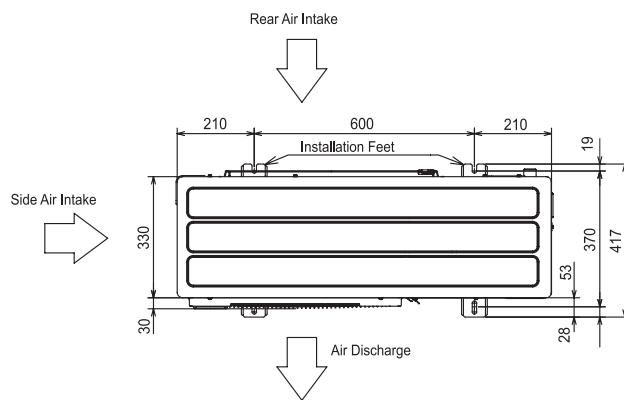
## PUZ-HWM140VHA/YHA Dimensions

All dimensions (mm)

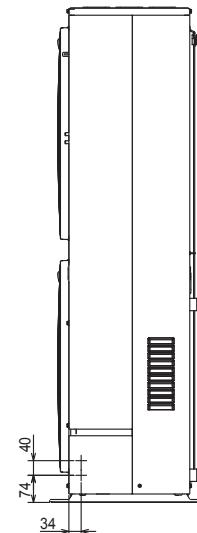
FRONT VIEW



UPPER VIEW



SIDE VIEW



# 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

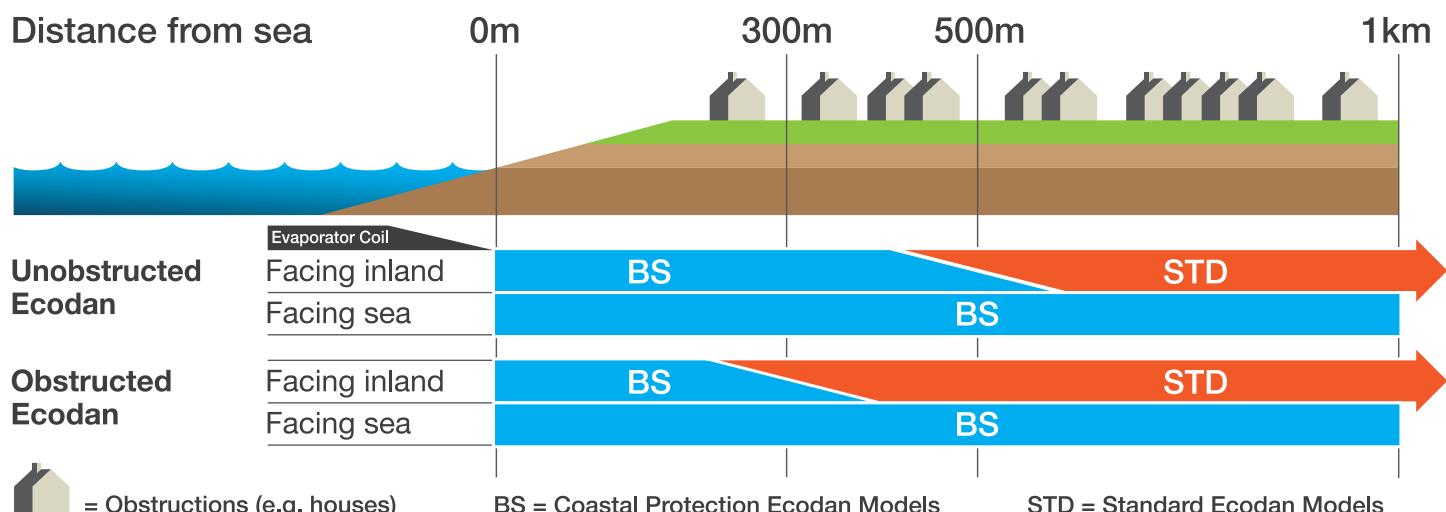
It is well known that salt spray from breaking waves and onshore winds significantly accelerates the corrosion of metal components. The spray from the ocean salts, which are primarily sodium chloride (table salt), can accumulate on metal surfaces and accelerate the electrochemical reactions that cause 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:	Key Benefits:
<ul style="list-style-type: none"> <li>■ A+ hot water efficiency (Range A+ to F)</li> <li>■ Stylish and modern aesthetics</li> <li>■ Packaged hot water, heating and controls</li> <li>■ Colour touch screen control</li> </ul>	<ul style="list-style-type: none"> <li>■ Minimised energy consumption</li> <li>■ Flexible product placement</li> <li>■ Plug and play simple installation</li> <li>■ Intuitive user friendly operation</li> <li>■ Remote control, monitoring, maintenance and technical support</li> </ul>



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)	A+	
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 - optionally powered by outdoor unit	Electrical Supply	220-240v, 50Hz
		Phase	Single
		Fuse Rating - MCB Sizes (A) <sup>†</sup>	10
	Immersion Heater	Electrical Supply	220-240v, 50Hz
		Phase	Single
		Capacity (kW)	3
		Max Running Current (A)	13
		Fuse Rating - MCB Sizes (A) <sup>†</sup>	16
MECHANICAL ZONES			DHW and 1 Heating Zone <sup>‡</sup>
OPTIONAL SIMPLIFIED WIRELESS ROOM THERMOSTAT AND WIRELESS RECEIVER			PAR-WT60R-E and PAR-WR61R-E Receiver

**NOTES:**

<sup>†</sup>1 MCB Sizes BS EN60898-2 & BS EN60947-2.

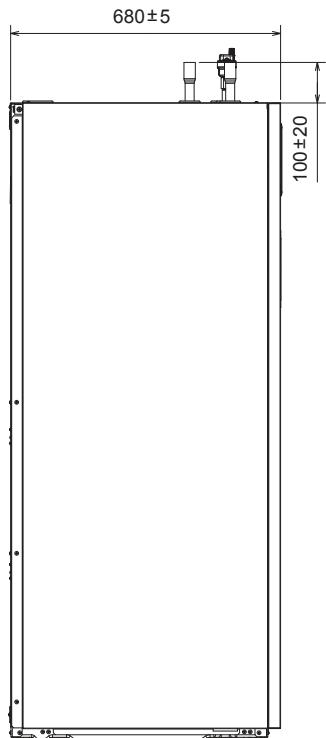
<sup>‡</sup>2 Optional 2 zone accessory pack available.

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.

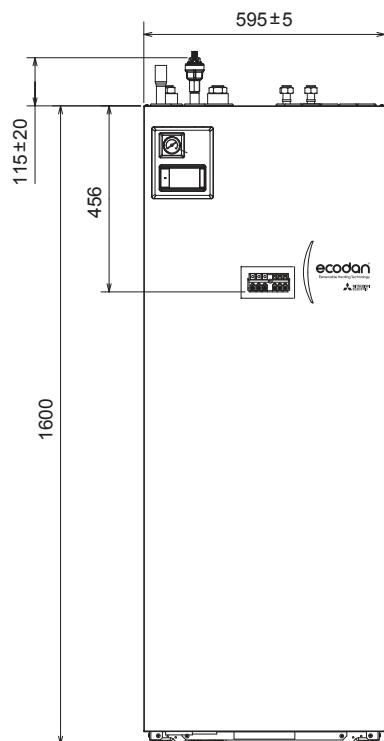
## EHPT20X-MEHEW Dimensions

All dimensions (mm)

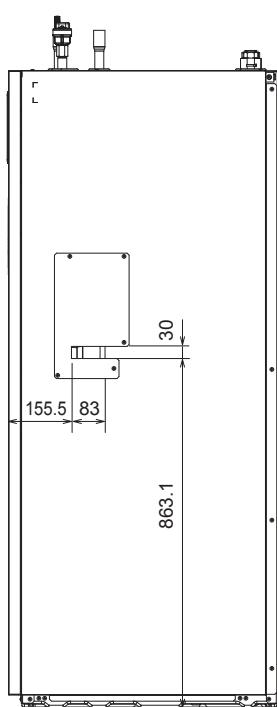
LEFT VIEW



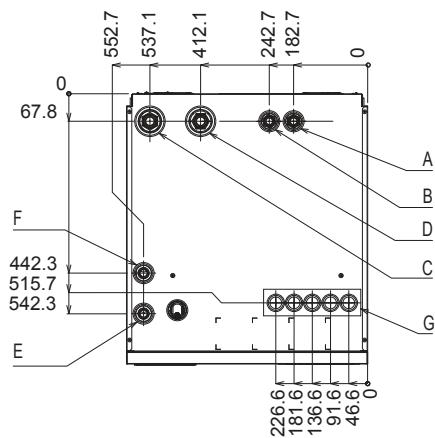
FRONT VIEW



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-UHLEWS	EHPT17X-UHLEWS
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	14 / 17 / 23
	Primary Circuit Pump	Grundfos UPM4L 25-75 130AZA	Grundfos UPM3 AUTO 25-70 130
	Heating Circuit Pump	Grundfos UPSO 15-60 CIL2	
	Sanitary Hot Water Pump		
	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	80
	DHW Cylinder DHW Expansion Vessel (Litres)	12	18
	Control Thermistor (°C)	75	75
	Over Temperature Cut-Out (°C)	80 +/- 5	80 +/- 5
	Temp and Pressure Relief Valve (°C) / (MPa (Bar))	90 / 1.0 (10.0)	90 / 1.0 (10)
	Expansion Relief Valve (Cold) (MPa (Bar))	0.8 (8)	0.8 (8)
DIMENSIONS (mm)		Width 676	676
		Depth 654	654
		Height 1516	1690
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 - optionally powered by outdoor unit	Electrical Supply 220-240v ~, 50Hz	220-240v ~, 50Hz
		Phase Single	Single
		Fuse Rating - MCB Sizes (A) <sup>1</sup> 16	16
	Immersion Heater	Electrical Supply 220-240v ~, 50Hz	220-240v ~, 50Hz
		Phase Single	Single
		Capacity (kW) 3	3
		Max Running Current (A) 13	13
		Fuse Rating - MCB Sizes (A) 16	16
MECHANICAL ZONES		DHW and 1 Heating Zone <sup>2</sup>	
OPTIONAL WIRELESS ROOM THERMOSTAT AND WIRELESS RECEIVER		PAR-WT60R-E Controller and PAR-WR61R-E Receiver	

### NOTES:

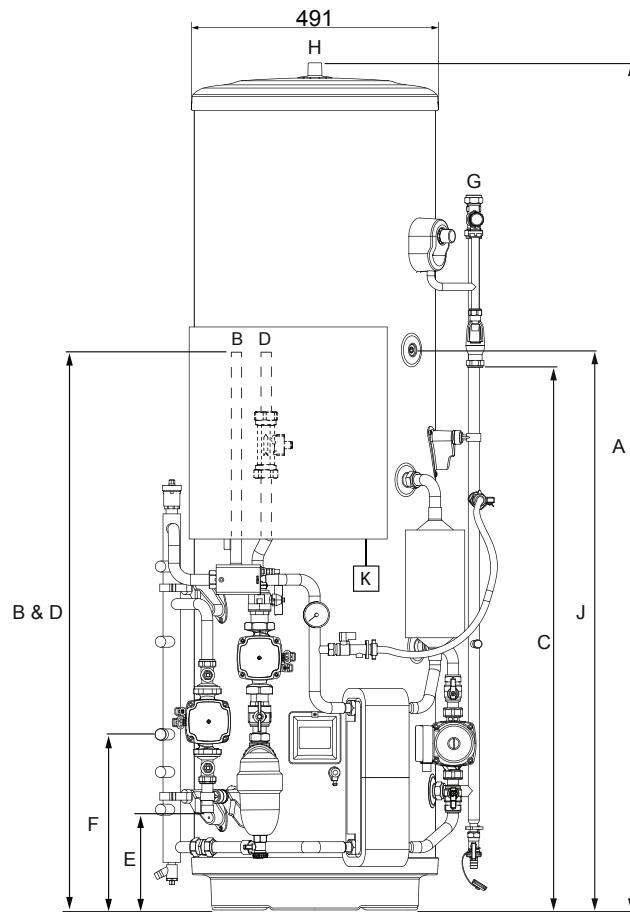
<sup>1</sup> MCB Sizes BS EN60898-2 & BS EN60947-2. <sup>2</sup> Optional 2 zone accessory pack available.

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.

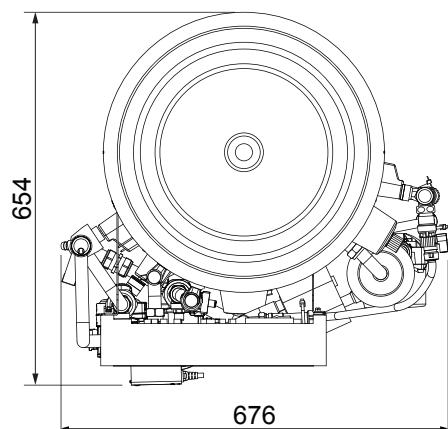
## EHPT15-17X-UKHLEWS Dimensions

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	14 / 17 / 24 / - / -	14 / 17 / 24 / - / -	14 / 17 / 24 / - / -	- / 17 / 24 / 32 / 40	- / 17 / 24 / 32 / 40	- / - / 24 / 32 / 40
	- with R290 Heat Pump 5 / 6 / 8.5 / 10 / 12kW	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	22 / 22	28 / 22	28 / 22	28 / 22
	Charge Pressure (MPa (Bar))	0.35 (3.5)	0.35 (3.5)	0.35 (3.5)	0.35 (3.5)	0.35 (3.5)	0.35 (3.5)
WATER SAFETY	Water Circuit Control Thermistor (°C)	80	80	80	80	80	80
	DHW Cylinder DHW Expansion Vessel (Litres)	12	18	18	18	24	24
	Control Thermistor (°C)	75	75	75	75	75	75
	Over Temperature Cut-Out (°C)	80 +/- 5	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)	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)	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
CYLINDER MATERIAL	Cylinder	Duplex stainless steel					
	Insulation	CFC / HCFC-free flame-retardant expanded Polyurethane					
	Insulation Type						
	Insulation Thickness (mm)	60	60	60	60	60	60
	GWP of Insulation	3.1	3.1	3.1	3.1	3.1	3.1
ELECTRICAL DATA	ODP of Insulation	0	0	0	0	0	0
	Control Board - optionally powered by outdoor unit	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) <sup>1</sup>	16	16	16	16	16
	Immersion Heater	Electrical Supply	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
		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							
OPTIONAL WIRELESS ROOM THERMOSTAT AND WIRELESS RECEIVER							
NOTES:							

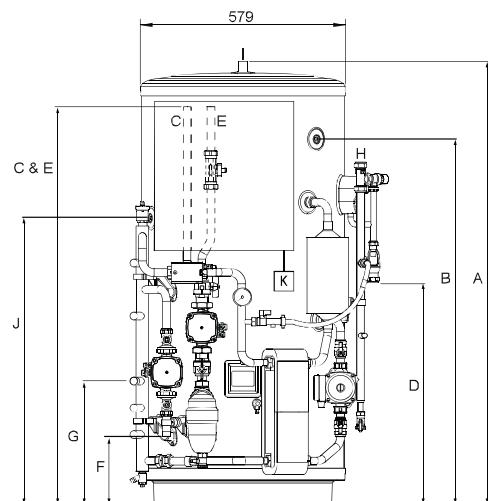
<sup>1</sup>1 MCB Sizes BS EN60898-2 & BS EN60947-2. \*2 Optional 2 zone accessory pack available.

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.

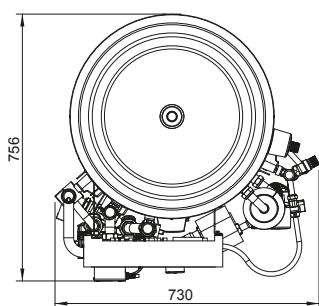
## EHPT15-30X-UKHEWS/L Dimensions

All dimensions (mm)

FRONT VIEW



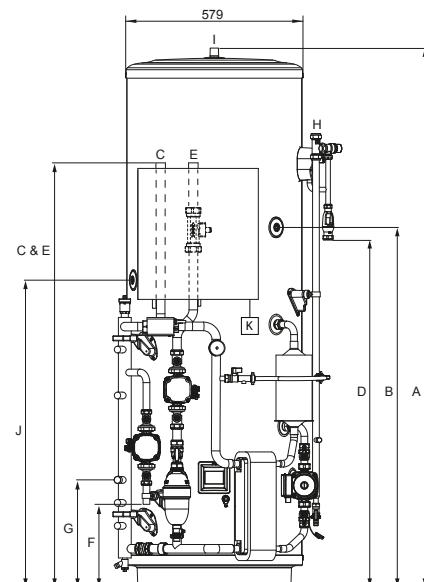
UPPER VIEW



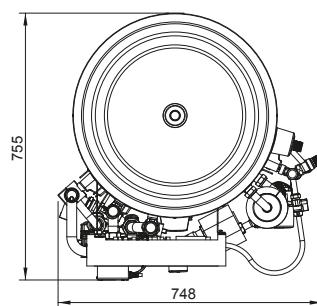
## EHPT21-30X-UKHEWL Dimensions

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)	2mm O/D Copper
	Heat pump flow connection - 210(L)/250/300	28mm O/D Copper
D	Tundish outlet connection	22mm Compression
E	Heat pump return connection - 150/170/210(S)	22mm O/D Copper
	Heat pump return connection - 210(L)/250/300	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: FHWT17D-MHEDW

## Key Features & Benefits:

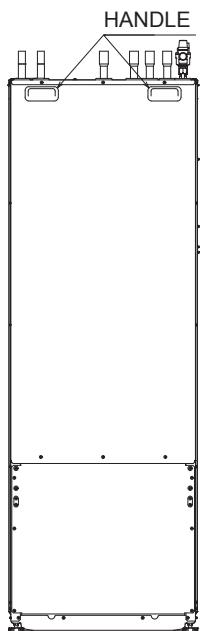
- Removable heat pump module - simple for repairs
- Highly efficient heating and hot water production - low running costs for owners
- Low quantity R32 refrigerant - low environmental impact
- PIC valve network control - simple pressure balancing and flow control
- Ultra-low noise output - no disturbance 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
LOOP INFORMATION	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
ELECTRICAL INFORMATION	Control Type			
	Inlet Temperature Range (min - max)			
	Flow Rate (min - max)			
	Maximum Loop Pressure Rating			
	Pipe Connection Size			
GENERAL INFORMATION	Voltage/Phase/Frequency			
	Fuse Rating - Heat Pump/Immersion Heater			
	Number of Connections			
	Immersion Rating (Tank)			
	Start up Current			

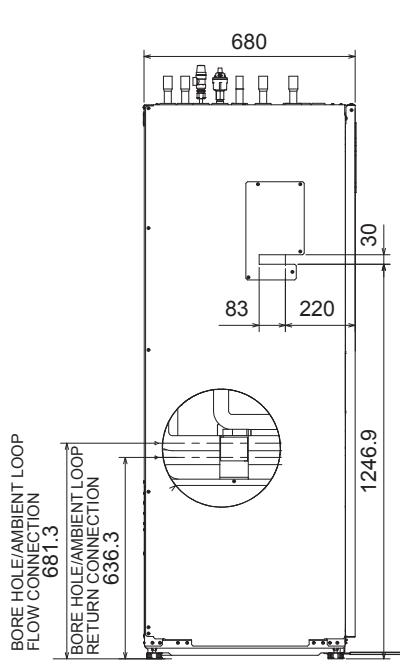
## EHWT17D-MHEDW Dimensions

All dimensions (mm)

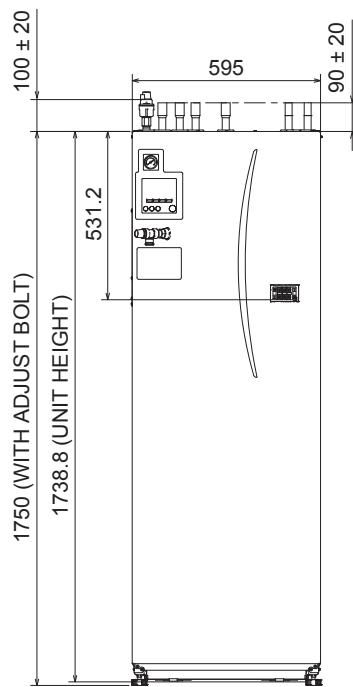
REAR VIEW



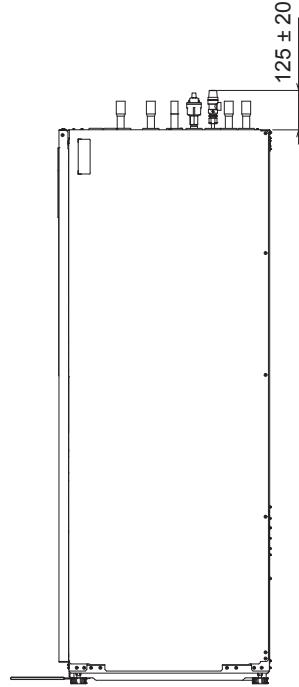
LEFT SIDE VIEW



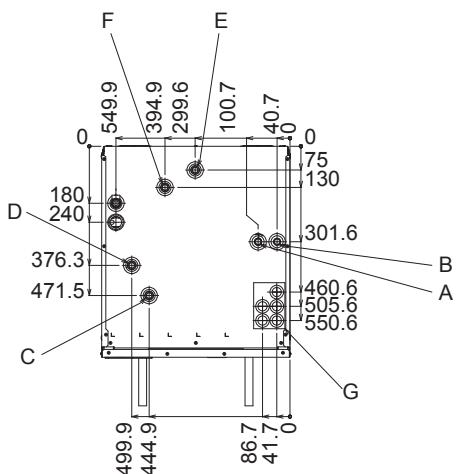
FRONT VIEW



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 ①③ ②④ ③⑤	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"> <li>■ On/Off heating mode</li> <li>■ On/Off heating ECO mode</li> <li>■ On/Off hot water mode</li> </ul>	<ul style="list-style-type: none"> <li>■ On/Off holiday mode</li> <li>■ On/Off legionella mode</li> <li>■ Change water flow temperature</li> </ul>

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"> <li>PUZ-WZ50VAA-(BS)</li> <li>PUZ-WZ60VAA-(BS)</li> <li>PUZ-WZ85VAA/YAA-(BS)</li> <li>PUZ-WZ100VAA/YAA-(BS)</li> <li>PUZ-WZ120VAA/YAA-(BS)</li> <li>PUZ-WM50VHA-(BS)</li> <li>PUZ-WM60VAA-(BS)</li> <li>PUZ-WM85VAA/YAA-(BS)</li> <li>PUZ-WM112VAA/YAA-(BS)</li> <li>PUZ-HWM140VHA/YHA-(BS)</li> </ul>	<ul style="list-style-type: none"> <li>●</li> </ul>
BUILT-IN FEATURES	<ul style="list-style-type: none"> <li>Initial Setting Wizard</li> <li>Commissioning Aide</li> <li>Smart Grid Ready</li> <li>PV Connection</li> <li>Energy Monitoring</li> <li>Dual Set-Point DHW</li> <li>Flow Rate Control Logic</li> <li>Quiet Mode</li> <li>Cascade<sup>1</sup></li> <li>Hybrid</li> </ul>	<ul style="list-style-type: none"> <li>●</li> </ul>
MELCloud ENABLED <sup>2</sup>	●	●
BEMS INTERFACE		●
DIMENSIONS (MM)	<ul style="list-style-type: none"> <li>Width 393</li> <li>Depth 86.7</li> <li>Height 422</li> </ul>	<ul style="list-style-type: none"> <li>336</li> <li>69</li> <li>278</li> </ul>
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"> <li>Electrical Supply Via Outdoor Unit or Independent Source (230v)</li> <li>Phase Single</li> </ul>	<ul style="list-style-type: none"> <li>Via Outdoor Unit or Independent Source (230v)</li> <li>Single</li> </ul>

### NOTES:

<sup>1</sup>1 Requires additional optional part PAC-IF082B-E. Please contact your regional sales office technical team. <sup>2</sup>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:

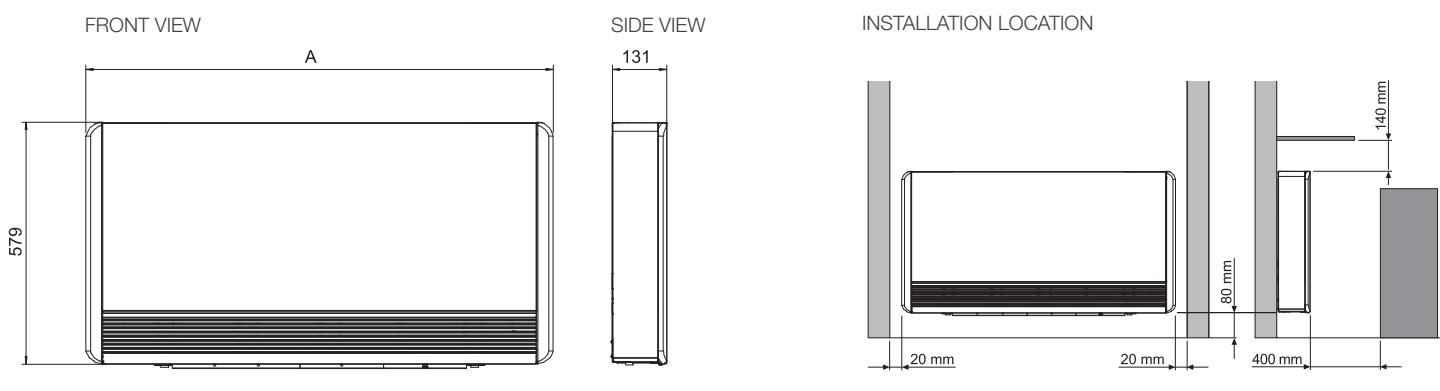
- Stylish** - At only 13cm deep, the sleek and elegant satin-white, wall mounted cabinet is designed to blend seamlessly into any setting
- Flexible** - Packed with advanced controls and functions, the i-Life2 Slim will work with traditional heating or renewable systems such as heat pumps
- Easy to Use** - 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) <sup>2 * 6 * 8</sup>	500 / 780 / 880	1060 / 1660 / 2130
ELECTRICAL DATA	230v, 50Hz	230v, 50Hz
Phase	Single	Single
WATER DATA	0.7 / 4.6 / 10.7	1.62 / 10.1 / 19.0
Fan Power Input (W) - (Lo-Mi-Hi) <sup>1 * 8</sup>	1.2 / 2.4 / 2.4	3 / 4.8 / 6
Water Flow Rate (l/min) - (Lo-Mi-Hi) <sup>2</sup>	3 / 6 / 8	2 / 5 / 8
Water Pressure Drop (kPa) - (Lo-Mi-Hi) <sup>2 * 8</sup>	51 / 93 / 125	122 / 221 / 277
AIR DATA	24 / 35 / 41	26 / 36 / 42
SOUND DATA	33 / 44 / 50	35 / 45 / 51
DIMENSIONS (mm) <sup>5</sup>	Width 737	937
Width	131	131
Height	579	579
WEIGHT (kg) <sup>5</sup>	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)



Dimensions	080	170
A	720	920



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

## Heating

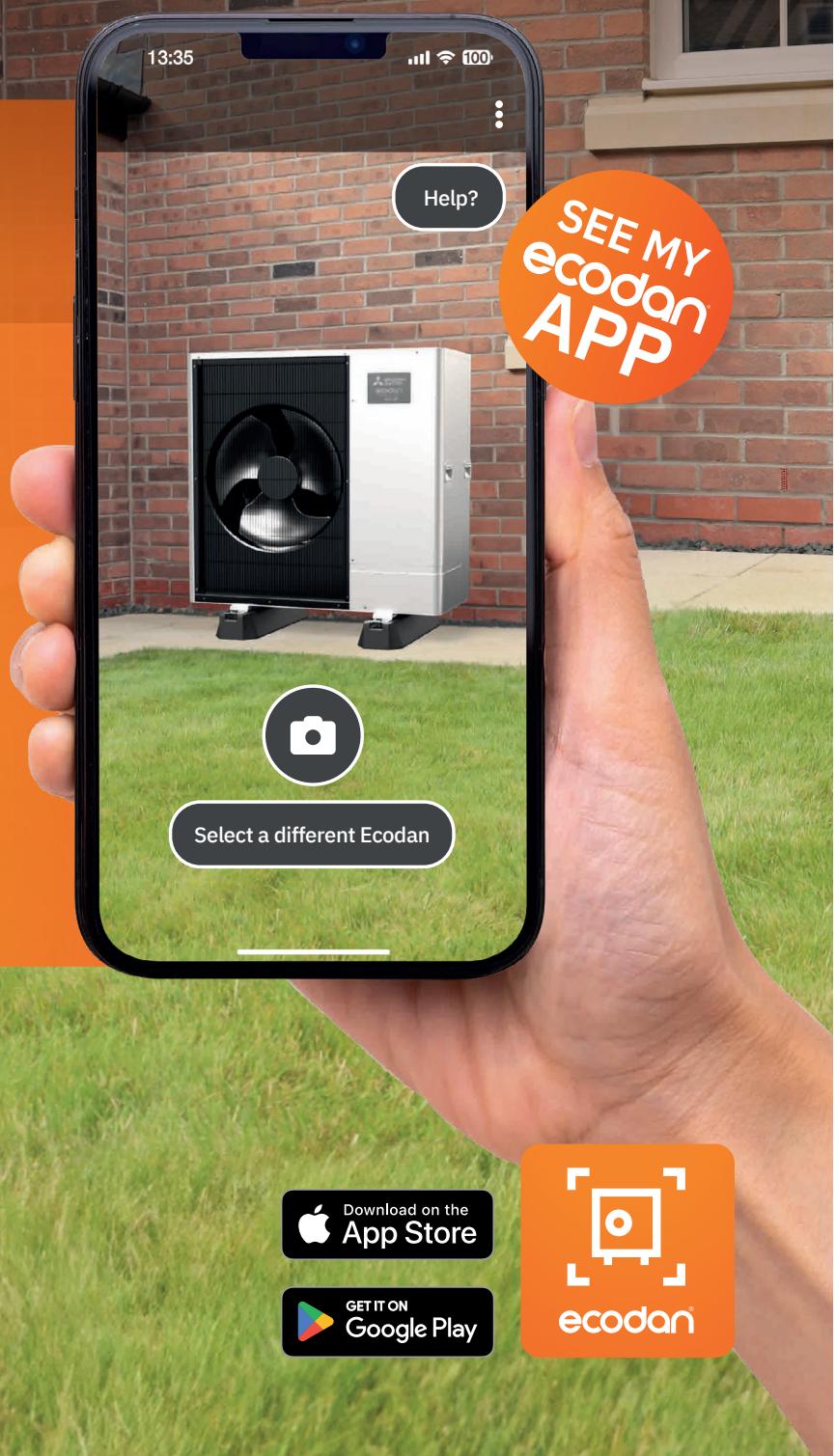
Product name	MEUK Product Code	
Anti Freeze 10L	<b>ACC-AFZ-010A</b>	
Anti Freeze 20L	<b>ACC-AFZ-020A</b>	
Insulated Through Wall Sleeve Kit (85mm)	<b>ACC-FCP-TW1</b>	
Pack for 2 Zone Systems with Equal Temperatures	<b>ACC-2ZP-K01</b>	
Pack for 2 Zone Systems with Different Temperatures	<b>ACC-2ZP-K02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

# 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.



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](http://ecodanselectiontool.mitsubishielectric.co.uk)  
or scan the QR code



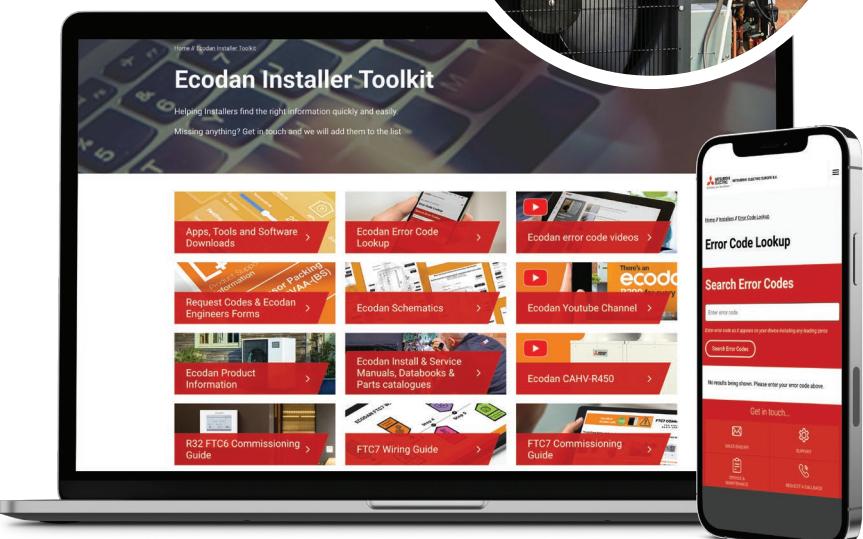
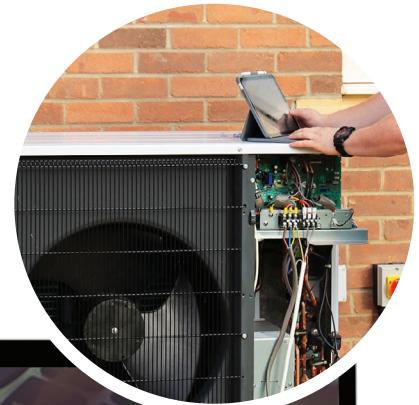
# Installer Toolkit

**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](http://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.





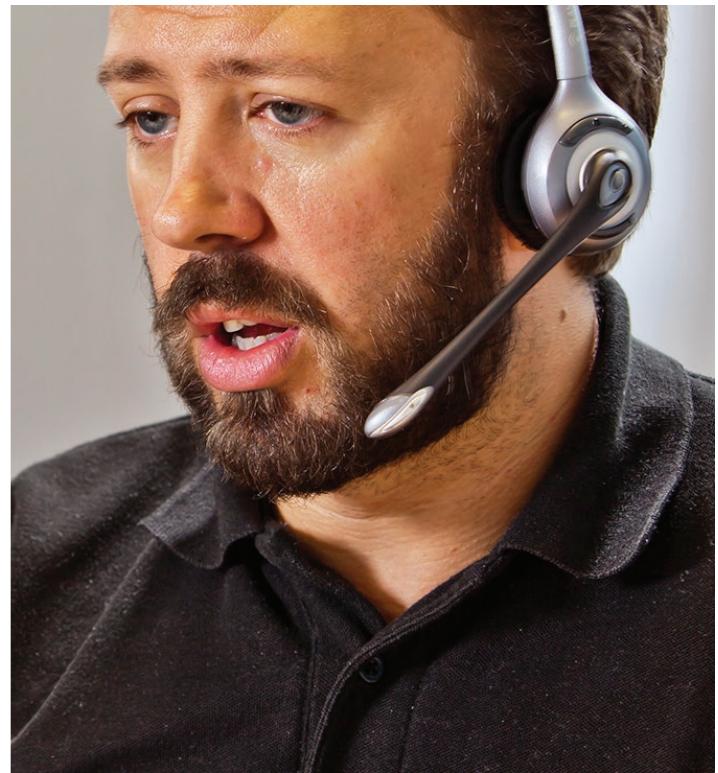
## Remote Maintenance and Technical Support

### Key Features:

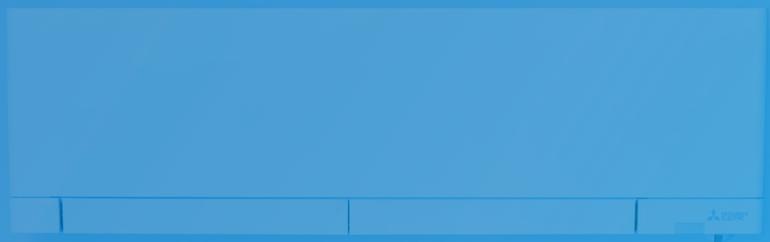
- Solve your heating and hot water issues faster
- One phone call can often remove the need for a site visit
- Cut down on wasted travel time and cost
- Remote monitoring and fault diagnostics by phone
- Ideal solution for private homeowners, landlords and social housing providers



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



# Air Conditioning



M series

**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 <sup>*1</sup>	1.8 <sup>*1</sup>	2.0	2.2 <sup>*1</sup>	2.5	3.5	4.2	5.0	6.1	7.1
<b>Wall Mounted</b>											
<b>R290</b> MSZ-RZ						●	●				
<b>R32</b> MSZ-LN <sup>*2</sup>			●			●	●	●	●	●	●
<b>R32</b> MSZ-EF <sup>*3</sup>			●		●	●	●	●			
<b>R32</b> MSZ-AY/AP		●		●		●	●	●	●	●	●
<b>R32</b> MSZ-HR						●	●	●	●	●	●
<b>Floor Mounted</b>											
<b>R32</b> MFZ-KT						●	●	●			

<sup>\*1</sup> Multi-split only   <sup>\*2</sup> Also available in pearl white, onyx black and natural white   <sup>\*3</sup> Also available in silver and white

# M series

## 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

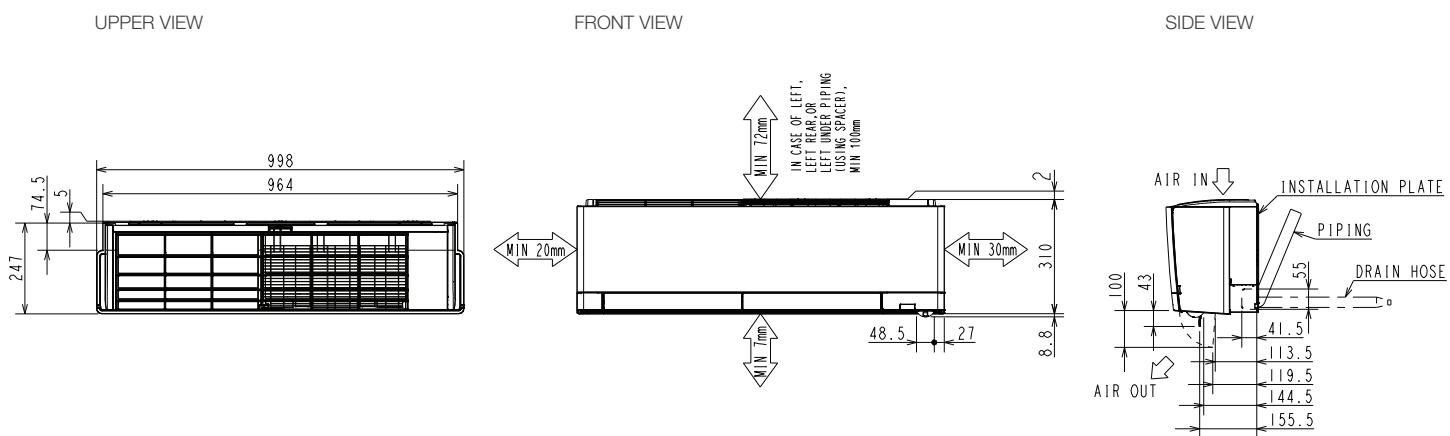
\* Derived from and subject to test results, for and on behalf of Mitsubishi Electric conducted at the Microbial Testing Laboratory, Textile Quality and Technology Center, Kobe, Japan.

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 <sub>2</sub> EQUIVALENT (t) - R290 (GWP 0.02) - 10m		0.39 / 0.001	0.39 / 0.001
MAX ADDITIONAL REFRIGERANT (kg) / CO <sub>2</sub> EQUIVALENT (t) - R290 (GWP 0.02)		0.10 / 0.000002	0.10 / 0.000002

## MSZ-RZ Dimensions

All dimensions (mm)



# M series

## 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				
WEIGHT (kg)		15.5	15.5	15.5	15.5	15.5
ELECTRICAL SUPPLY		Fed by Outdoor Unit				
FUSE RATING (BS88) - HRC (A)		6	6	6	6	6
INTERCONNECTING CABLE No. CORES		4	4	4	4	4

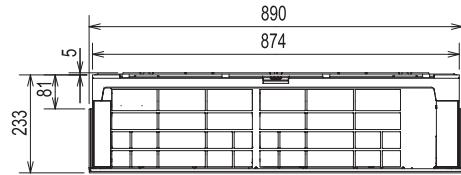
NOTES: MSZ-LN18VG2 only available with R32 MXZ Multi-Split outdoor units. Ruby Red (R), Onyx Black (B), Pearl White (V), Natural White (W)

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 <sub>2</sub> 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 <sub>2</sub> EQUIVALENT (t) - R32 (GWP 675)		-	0.26 / 0.18	0.26 / 0.18	0.26 / 0.18	0.46 / 0.32

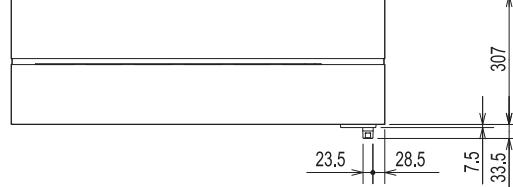
## MSZ-LN Dimensions

All dimensions (mm)

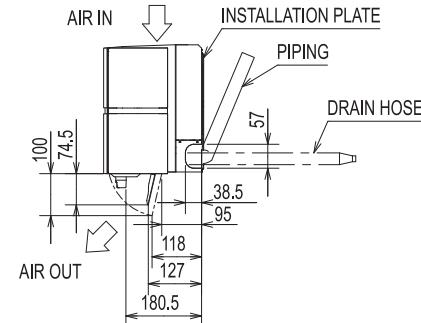
UPPER VIEW



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

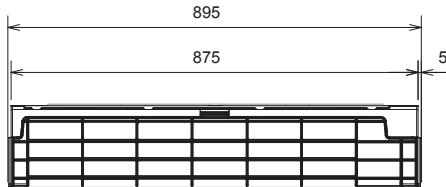
MSZ-EF - INDOOR UNITS		MSZ-EF18VGK B/S/W	MSZ-EF22VGK B/S/W	MSZ-EF25VGK B/S/W	MSZ-EF35VGK B/S/W	MSZ-EF50VGK B/S/W
CAPACITY (kW)	Heating (nominal)	2.0 (0.9 - 4.0)	2.6 (1.0-4.5)	3.2 (1.0-4.2)	4.0 (1.3-5.1)	5.8 (1.4-7.5)
	Cooling (nominal)	1.8 (0.9 - 3.0)	2.2 (1.0-3.2)	2.5 (0.9-3.4)	3.5 (1.1-4.0)	5.0 (1.4-5.4)
	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				
WEIGHT (kg)	-	11.5	11.5	11.5	11.5	11.5
ELECTRICAL SUPPLY	-	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 <sub>2</sub> EQUIVALENT (t) - R32 (GWP 675) - 7m	-	-	-	0.62 / 0.42	0.74 / 0.50	1.05 / 0.71
MAX ADDITIONAL REFRIGERANT (kg) / CO <sub>2</sub> EQUIVALENT (t) - R32 (GWP 675)	-	-	-	0.26 / 0.18	0.26 / 0.18	0.46 / 0.31

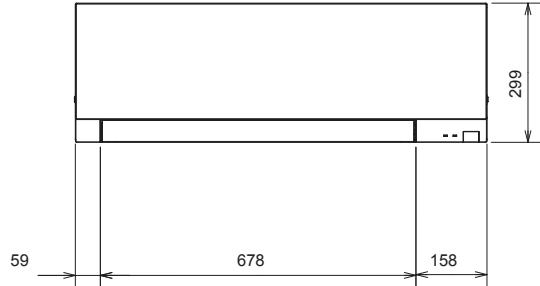
## MSZ-EF Dimensions

All dimensions (mm)

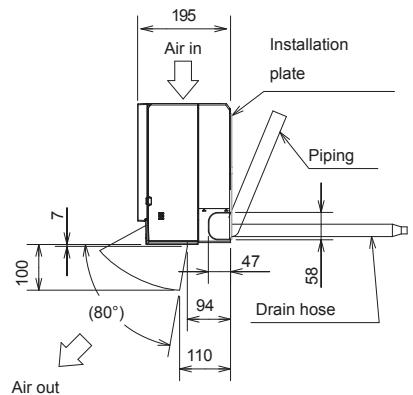
UPPER VIEW



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.



**R32**



### 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

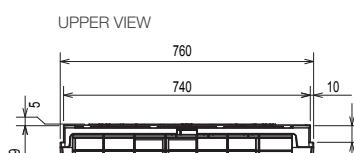
MSZ-AY / MSZ-AP - INDOOR UNITS		MSZ-AY15VGK	MSZ-AY20VGK	MSZ-AY25VGK	MSZ-AY35VGK	MSZ-AY42VGK	MSZ-AY50VGK	MSZ-AP60VGK	MSZ-AP71VGK
CAPACITY (kW)		2.0 (0.5-3.1)	2.5 (0.5-3.5)	3.2 (1.0-4.1)	4.0 (1.3-4.6)	5.2 (1.3-6.0)	5.5 (1.4-7.3)	6.8 (2.0-8.6)	8.0 (2.2-10.3)
Heating (nominal)	Heating (nominal)	2.0 (0.5-2.2)	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)	Cooling (nominal)	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)	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	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	Fed by Outdoor Unit
FUSE RATING (BS88) - HRC (A)	6	6	6	6	6	6	6	6	6
INTERCONNECTING CABLE No. CORES	4	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 714	800 x 285 x 714	840 x 330 x 880			
ELECTRICAL SUPPLY		-	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 <sub>2</sub> 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 <sub>2</sub> 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

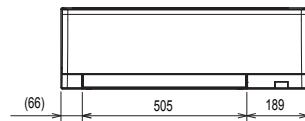
## MSZ-AY / MSZ-AP Dimensions

All dimensions (mm)

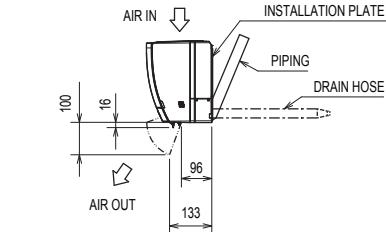
### MSZ-AY15-20VGK



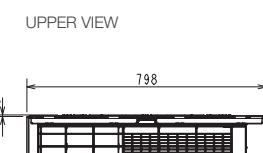
### FRONT VIEW



### SIDE VIEW



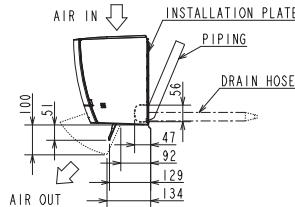
### MSZ-AY25-50VGK



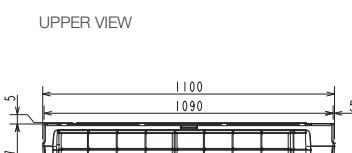
### FRONT VIEW



### SIDE VIEW



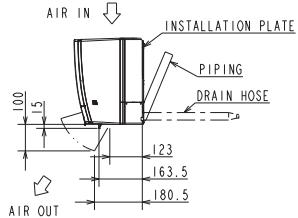
### MSZ-AP60-71VGK



### FRONT VIEW



### SIDE VIEW



# M series

## 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

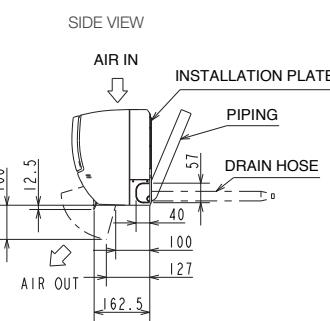
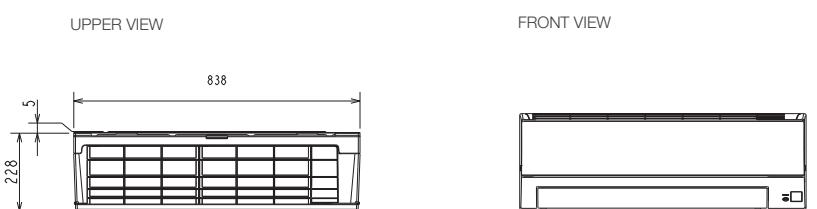
MSZ-HR - INDOOR UNITS		MSZ-HR25VF	MSZ-HR35VF	MSZ-HR50VF	MSZ-HR60VF	MSZ-HR71VF
CAPACITY (kW)	Heating (nominal)	3.15 (0.7-3.5)	3.6 (0.9-3.7)	5.4 (1.4-6.5)	6.8 (1.5-9.0)	8.1 (1.5-9.0)
	Cooling (nominal)	2.5 (0.5-2.9)	3.4 (0.9-3.4)	5.0 (1.3-5.0)	6.1 (1.7-7.4)	7.1 (1.8-7.4)
	Heating (UK)	2.61 (0.6-2.9)	2.99 (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++				
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				
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 <sub>2</sub> 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 <sub>2</sub> 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

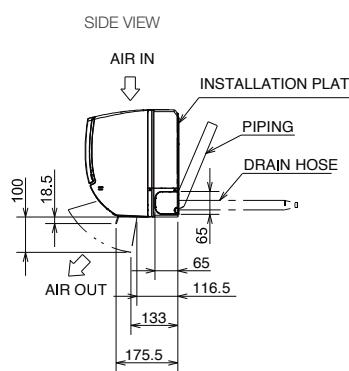
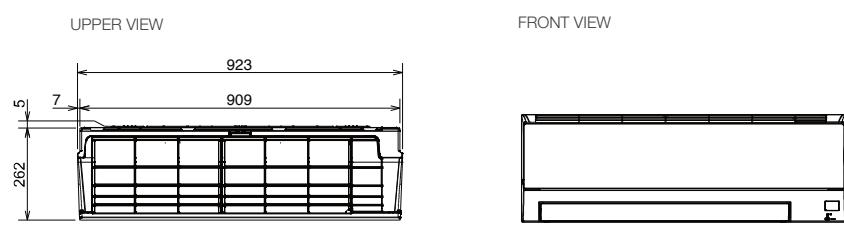
## MSZ-HR Dimensions

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.

**R32**

#### 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

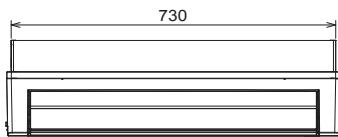
MFZ-KT - INDOOR UNITS		MFZ-KT25VG	MFZ-KT35VG	MFZ-KT50VG
CAPACITY (kW)		3.4 (1.3-4.2)	4.3 (1.1-5.0)	6.0 (1.5-7.2)
Heating (nominal)		2.5 (1.6-3.2)	3.5 (0.9-3.9)	5.0 (1.2-5.6)
Cooling (nominal)		2.79 (1.07-3.44)	3.53 (0.9-4.10)	4.92 (1.23-5.90)
Heating (UK)		2.45 (1.57-3.14)	3.43 (0.88-3.82)	4.90 (1.18-5.49)
Cooling (UK)				
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	Heating/Cooling	A+ / A++	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)	Width x Depth x Height	750 x 215 x 600	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	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)	Heating/Cooling	46 / 45	48 / 48	49 / 48
SOUND POWER LEVEL (dBA)	Cooling	59	59	64
WEIGHT (kg)		30	35	41
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)	0.80 / 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)	Heating/Cooling [MAX]	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 <sub>2</sub> EQUIVALENT (t) - R32 (GWP 675) - 7m		0.65 / 0.44	0.90 / 0.61	1.20 / 0.81
MAX ADDITIONAL REFRIGERANT (kg) / CO <sub>2</sub> EQUIVALENT (t) - R32 (GWP 675)		0.26 / 0.18	0.26 / 0.18	0.46 / 0.31

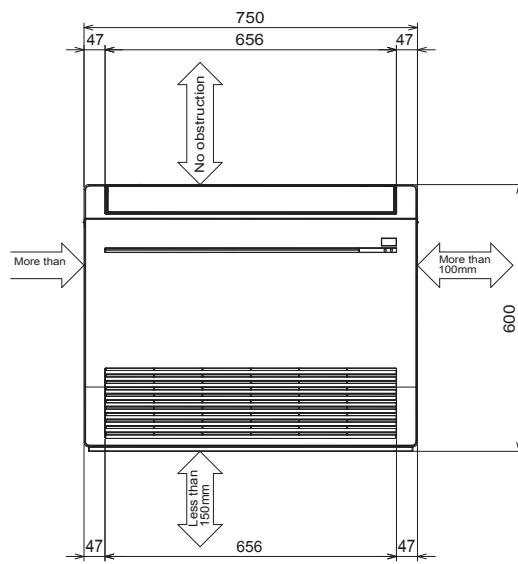
## MFZ-KT Dimensions

All dimensions (mm)

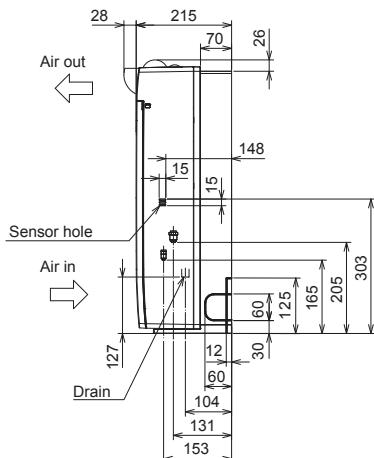
UPPER VIEW



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

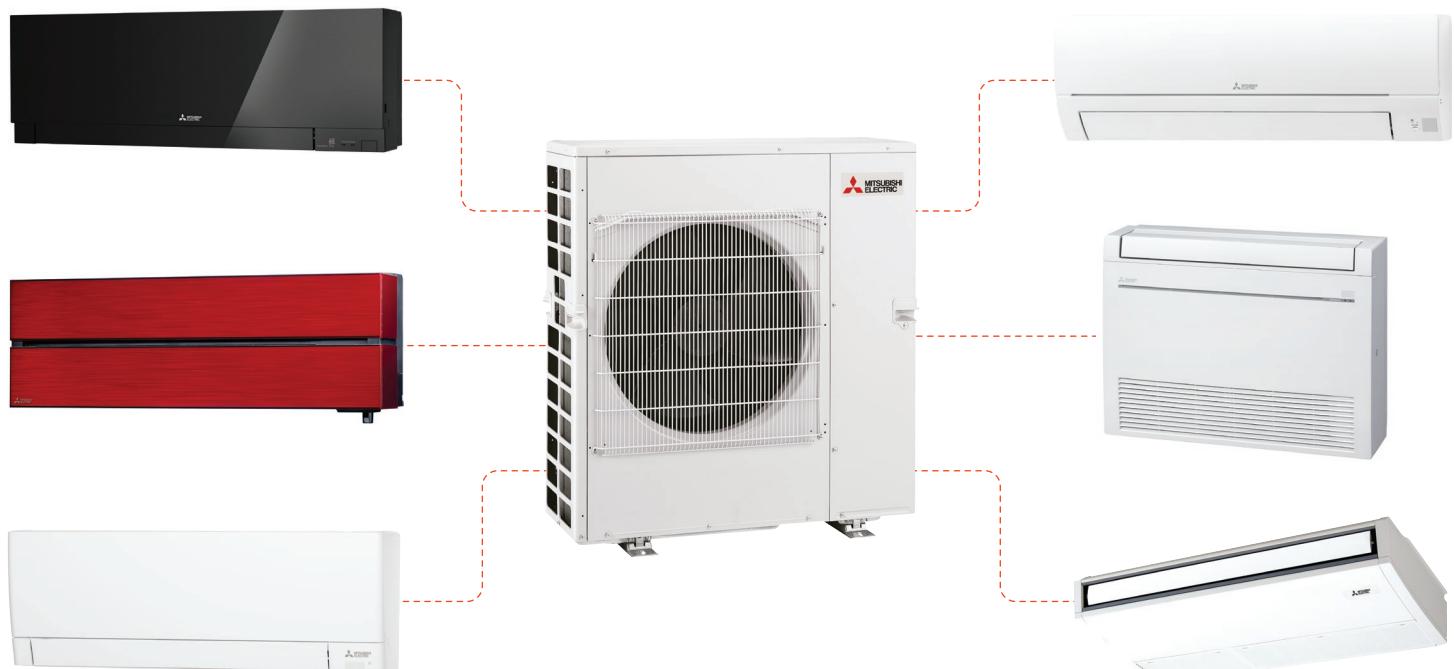
**Ideal for residential homes that require air conditioning in more than one room, Mitsubishi Electric Multi-Split systems combine flexibility and performance while lowering CO<sub>2</sub> emissions and running costs.**

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
<b>Wall Mounted</b>												
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											●	●
<b>Floor Mounted</b>												
MFZ-KT25VG	●	●	●	●	●	●	●	●	●	●		
MFZ-KT35VG		●	●	●	●	●	●	●	●	●		
MFZ-KT50VG			●	●	●	●	●	●	●	●		
SFZ-M25VA	●	●	●	●	●	●	●	●	●	●		
SFZ-M35VA		●	●	●	●	●	●	●	●	●		
SFZ-M50VA			●	●	●	●	●	●	●	●		
SFZ-M60VA				●	●	●	●	●	●	●		
SFZ-M71VA					●	●	●	●	●	●		
<b>Ceiling Cassette</b>												
SLZ-M15FA2	●	●	●	●	●	●	●	●	●	●		
SLZ-M25FA2	●	●	●	●	●	●	●	●	●	●		
SLZ-M35FA2	●	●	●	●	●	●	●	●	●	●		
SLZ-M50FA2			●	●	●	●	●	●	●	●		
<b>Ceiling Concealed Ducted</b>												
SEZ-M25DA2	●	●	●	●	●	●	●	●	●	●		
SEZ-M35DA2		●	●	●	●	●	●	●	●	●		
SEZ-M50DA2			●	●	●	●	●	●	●	●		
SEZ-M60DA2				●	●	●	●	●	●	●		
SEZ-M71DA2					●	●	●	●	●	●		
PEAD-M35JA2					●	●	●	●	●	●		
PEAD-M50JA2					●	●	●	●	●	●		
PEAD-M60JA2						●	●	●	●	●		
PEAD-M71JA2						●	●	●	●	●		
<b>Ceiling Suspended</b>												
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.

**R32**



#### 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 (rsh) / SEER (rsc) (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++	A+ / A++
MAX AIRFLOW (m <sup>3</sup> /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	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	4 Core
TOTAL PIPE LENGTH (m)		20	30	30	50	60	60	70	80	80
MAX PIPE LENGTH PER INDOOR UNIT (m)		15	20	20	25	25	25	25	25	25
MAX HEIGHT DIFFERENCE (m)		10	15 (10 if OU higher than IU)	15	15					
CHARGE REFRIGERANT (kg) / CO <sub>2</sub> 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)	2.4 / 1.62 (80m)
FUSE RATING (BS88) - HRC (A)		16	16	16	25	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.

**R32**



#### 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) <sup>1</sup>	4.73 / 3.81	3.90 / 3.29	4.62 / 3.97
SCOP (nsh) / SEER (nsc) (BS EN14825)	4.30 / 8.12	4.30 / 7.78	4.02 / 7.26
ErP ENERGY EFFICIENCY CLASS	Heating/Cooling	A+ / A++	A+ / A++
MAX AIRFLOW (m <sup>3</sup> /min)	Heating/Cooling	33.5 / 28.4	34.7 / 32.7
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	50 / 44	51 / 47
SOUND POWER LEVEL (dBA)	Cooling	59	64
DIMENSIONS (mm)	Width x Depth x Height	800 x 285 x 550	800 x 285 x 550
WEIGHT (kg)		37	57
ELECTRICAL SUPPLY		220-240V, 50Hz	220-240V, 50Hz
PHASE		Single	Single
POWER INPUT (kW)	Heating/Cooling (nominal)	0.91 / 1.05	1.30 / 1.26
	Heating/Cooling (UK)	0.82 / 0.90	1.17 / 1.08
STARTING CURRENT (A)		7.6	7.6
RUNNING CURRENT (A)	Heating/Cooling [MAX]	4.4 / 4.7 [12.2]	6.6 / 6.5 [12.2]
INTERCONNECTING CABLE No. CORES		4 Core	4 Core
TOTAL PIPE LENGTH (m)		30	50
MAX PIPE LENGTH PER INDOOR UNIT (m)		20	25
MAX HEIGHT DIFFERENCE (m)		15 (10 if OU higher than IU)	15 (10 if OU higher than IU)
CHARGE REFRIGERANT (kg) / CO <sub>2</sub> EQUIVALENT (t) - R32 (GWP 675)		0.9 / 0.61	1.4 / 0.95
FUSE RATING (BS88) - HRC (A)		0	0.2 / 0.14

#### NOTES:

MSZ-HR connection only.

# Ventilation



 **Lossnay**

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.

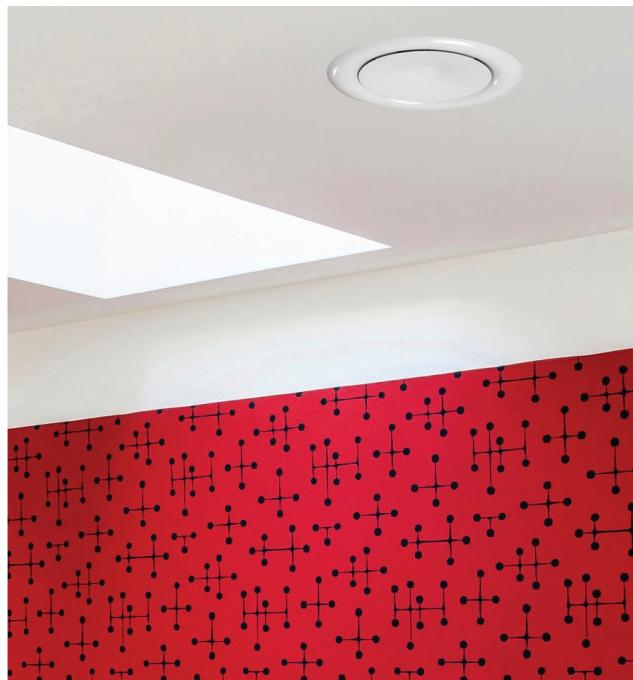


### Fresh air benefits include:

- 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
WEIGHT (kg)		26	32	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	Outside Air	Coarse 55% / G3	Coarse 55% / G3	Coarse 55% / G3
(ISO 16890:2016/EN779:2012)	Return Air	Coarse 55% / G3	Coarse 55% / G3	Coarse 55% / G3
OPTIONAL FILTER(S)	Supply Air	NOx 90%	NOx 90%	NOx 90%
	Outside Air	ePM2.5 50%	ePM2.5 50%	ePM2.5 50%

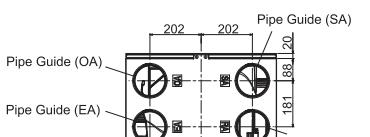
Model	SFP W/(l/s)	Heat exchange efficiency (%)						
K + 1 (21 l/s)	0.62	90	0.86	90	0.80	91	0.80	87
K + 2 (29 l/s)	0.67	89	0.80	90	0.72	90	0.74	88
K + 3 (37 l/s)	0.79	88	0.84	89	0.74	90	0.76	88
K + 4 (45 l/s)	1.00	87	0.96	89	0.82	89	0.84	88
K + 5 (53 l/s)	1.19	87	1.08	88	0.91	88	0.94	87
K + 6 (61 l/s)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

## VL-CZPVU-L/R-E Dimensions

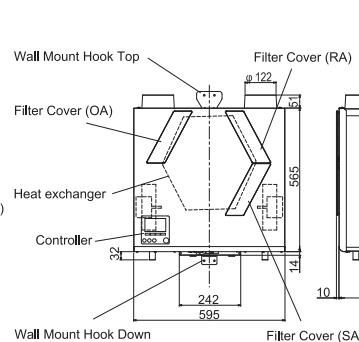
All dimensions (mm)

### VL-250CZPVU-L/R-E

UPPER VIEW



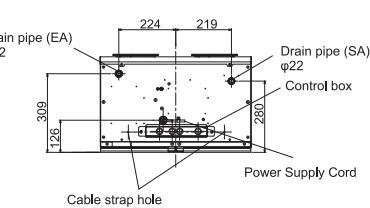
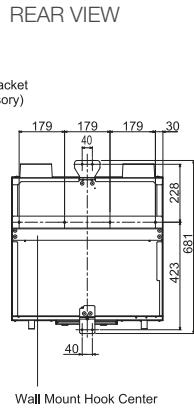
FRONT VIEW



RIGHT SIDE VIEW

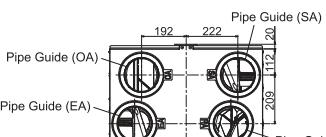
REAR VIEW

LOWER VIEW

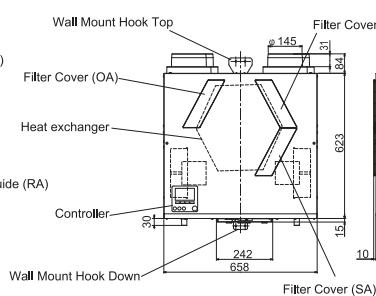


### VL-350CZPVU-L/R-E

UPPER VIEW

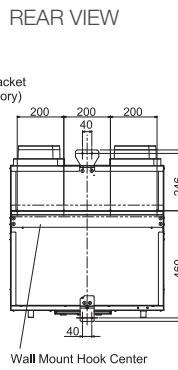


FRONT VIEW

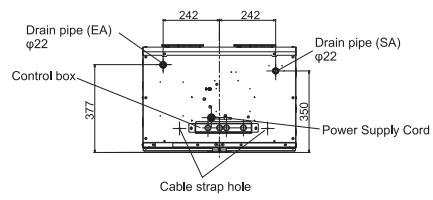


RIGHT SIDE VIEW

REAR VIEW

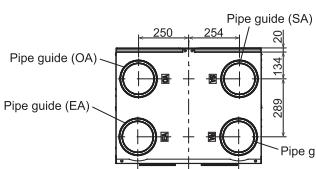


LOWER VIEW

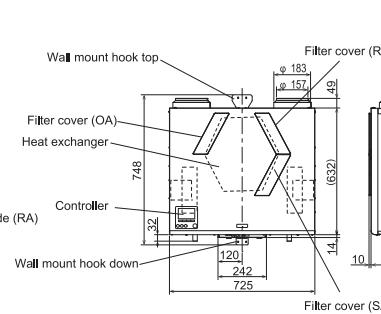


### VL-500,520CZPVU-L/R-E

UPPER VIEW

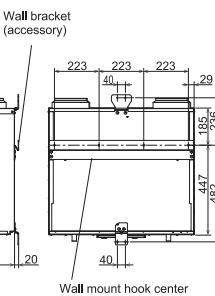


FRONT VIEW

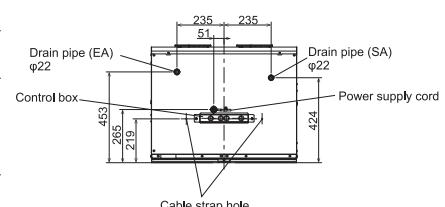


RIGHT SIDE VIEW

REAR VIEW



LOWER VIEW



**NOTES:** The above dimensional drawings are for a left sided unit. For the right sided unit dimensional drawings, please see the databook.

# 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 night's 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)	725 x 586 x 500
(Width x Depth x Height)	725 x 586 x 1182
WEIGHT (kg)	38
Module	77
System	
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

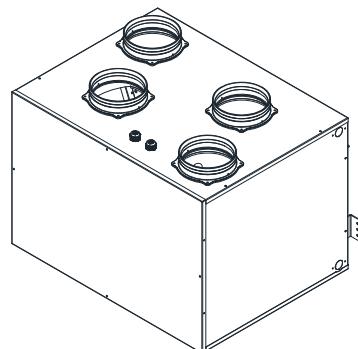
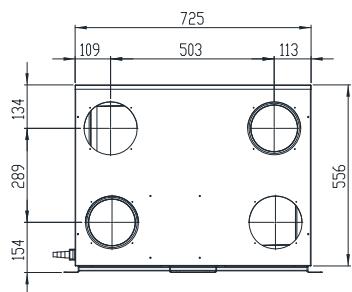
Model	Procon Overheat Thermostat (OHT)
DESCRIPTION	Manages activation and operation of cooling function. Reads internal temperature against set activation point, and manages interlock signals and system status
CONNECT TO	VL-500CZPVU-L/R-E and VL-520CZPVU-L/R-E CP-500CM-L/R
ELECTRICAL SUPPLY	Powered via 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 <sup>1</sup> Heating Interlock VFC Manual Activation VFC Block VFC

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

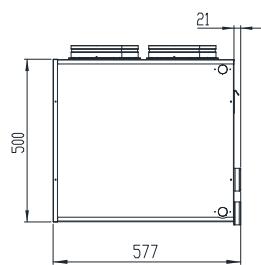
## CP-500CM-L/R Dimensions

All dimensions (mm)

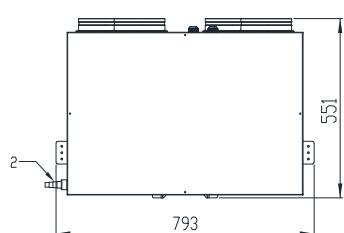
LOWER VIEW



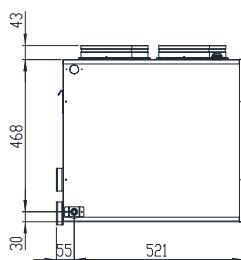
RIGHT SIDE VIEW



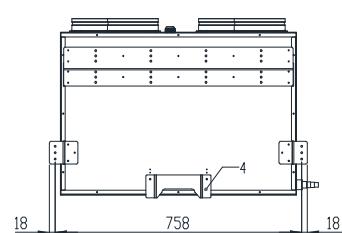
FRONT VIEW



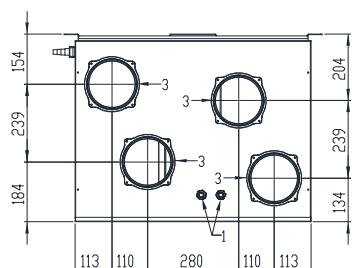
LEFT SIDE VIEW



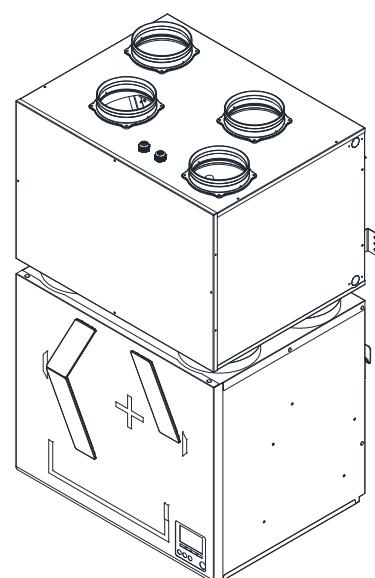
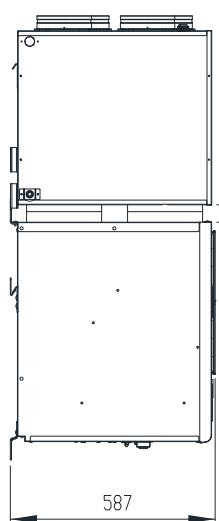
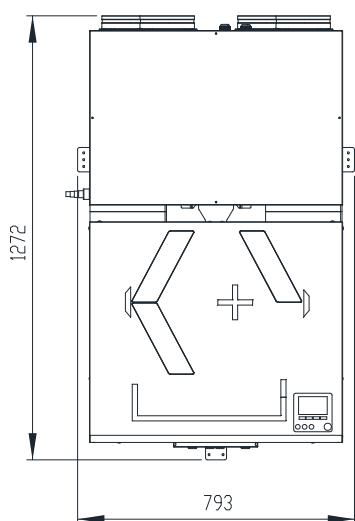
REAR VIEW



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:

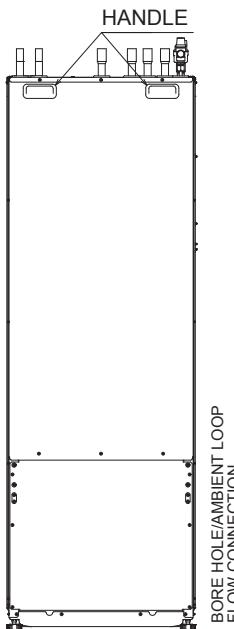
- Removable heat pump module - simple for repairs
- Highly efficient heating and hot water production - low running costs for owners
- Low quantity R32 refrigerant - low environmental impact
- PIC valve network control - simple pressure balancing and flow control
- Ultra-low noise output - no disturbance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

MODEL	EHWT17D-MHEDW		
CAPACITY INFORMATION	20 / W35	Heating Capacity (min-max)	kW
		Power Input (min-max)	kW
		COP (Nom.)	-
	L20 / W45	Heating Capacity (min-max)	kW
		Power Input (min-max)	kW
		COP (Nom.-)	-
	L20 / W55 (DHW)	Heating Capacity (DHW)	kW
		Power Input (DHW)	kW
		COP (DHW)	-
	L25 / W35	Heating Capacity (min-max)	kW
LOOP INFORMATION		Power Input (min-max)	kW
		COP (Nom.)	-
	L25 / W45	Heating Capacity (min-max)	kW
		Power Input (min-max)	kW
		COP (Nom.)	-
	L25 / W55 (DHW)	Heating Capacity (DHW)	kW
		Power Input (DHW)	kW
		COP (DHW)	-
	Heating Circuit Flow Rate (min - max)	l/min	7.1 - 27.7
	Control Type	-	PICV + Actuator
ELECTRICAL INFORMATION	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
	Voltage/Phase/Frequency	v/ph/Hz	230v/1ph/50Hz
	Fuse Rating - Heat Pump/Immersion Heater	A	16/20
	Number of Connections	-	2
GENERAL INFORMATION	Immersion Rating (Tank)	kW	3
	Start up Current	A	3.1
	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

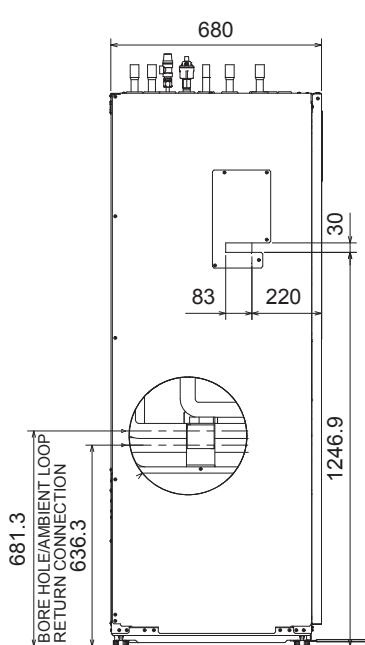
## EHWT17D-MHEDW Dimensions

All dimensions (mm)

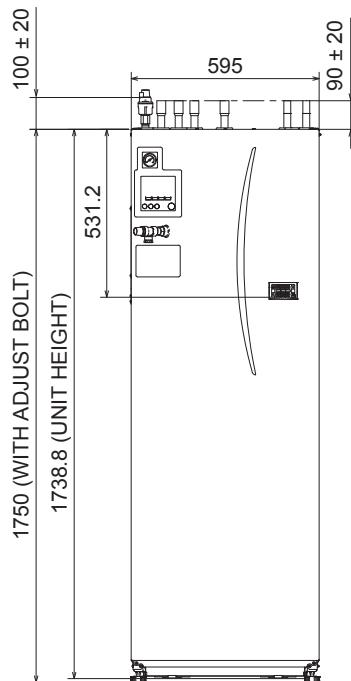
REAR VIEW



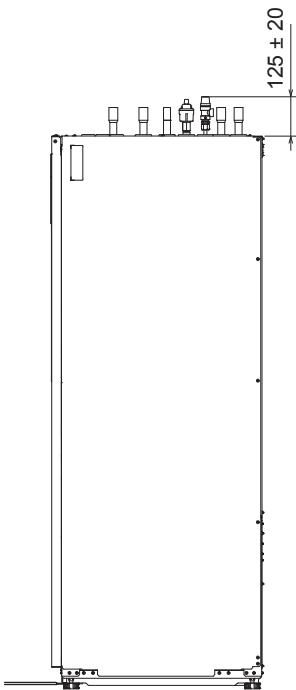
LEFT SIDE VIEW



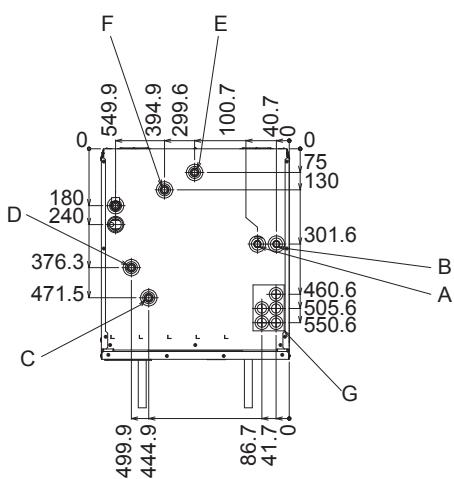
FRONT VIEW



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 ① ② ③ ④ ⑤	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 CO<sub>2</sub> (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 CO<sub>2</sub> 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 <sup>1</sup>	Capacity (kW) 40 Power Input (kW) 10.31 Current Input (A) 16.3 COP 3.88
WATER HEATING 65°C <sup>2</sup>	Capacity (kW) 40 Power Input (kW) 10.97 Current Input (A) 18.3 COP 3.65
WATER HEATING 65°C <sup>3</sup>	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
TEMPERATURE RANGE	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) <sup>5</sup> 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 <sup>4</sup> (dB(A)) 56
REFRIGERANT	Type R744 (GWP 1) Refrigerant Charge (kg) / CO <sub>2</sub> Equivalent (t) 6.5 / 0.0065

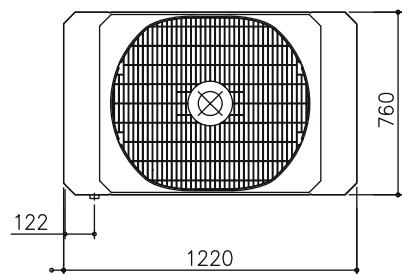
### NOTES:

- 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
- 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
- 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
- Measured 1m from the front of the unit in an anechoic room
- MCB Sizes BS EN60898-2 & BS EN60947-2

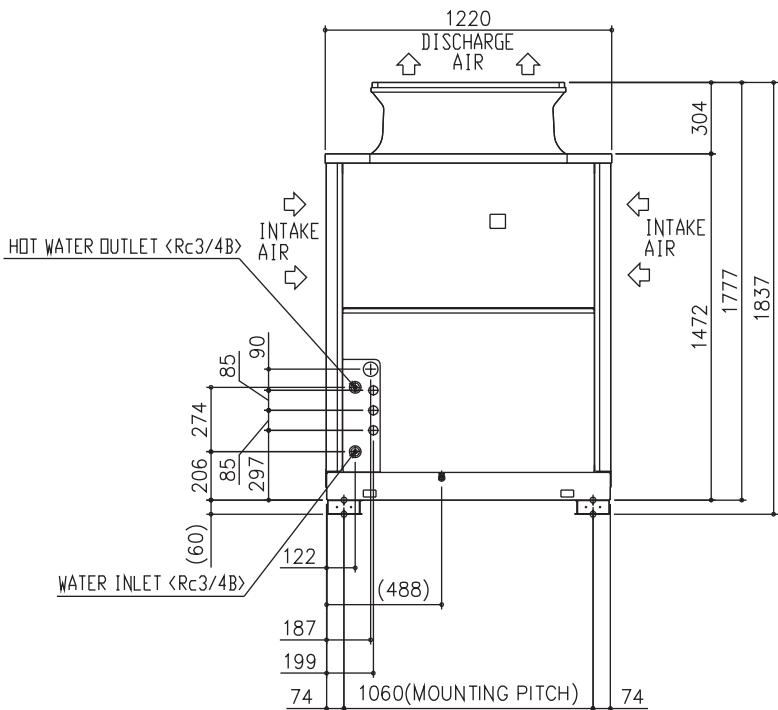
## QAHV-N560YA-HPB Dimensions

All dimensions (mm)

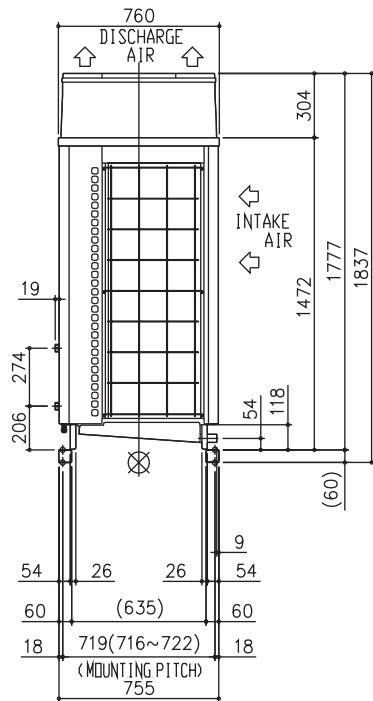
UPPER VIEW



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) <sup>1</sup>	kW	40
TEMPERATURE RANGE	Outlet water temperature Outdoor temperature	24 - 75°C -25 - 43°C
WATER PIPE DIAMETER AND TYPE	Inlet Outlet	38.1 (1 1/2"), screwed-type joint 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 x 740 x 1710
FAN	Type and quantity Control and driving mechanism	Propeller fan x 2 Inverter control, direct driven by motor
REFRIGERANT		R290

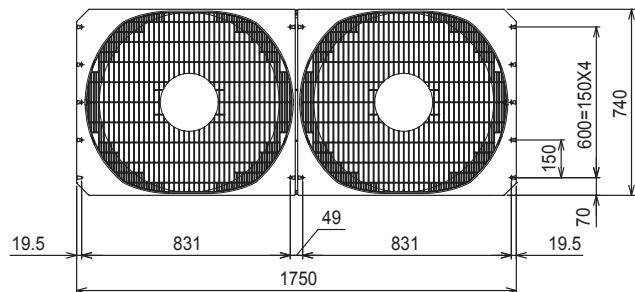
### NOTES:

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.

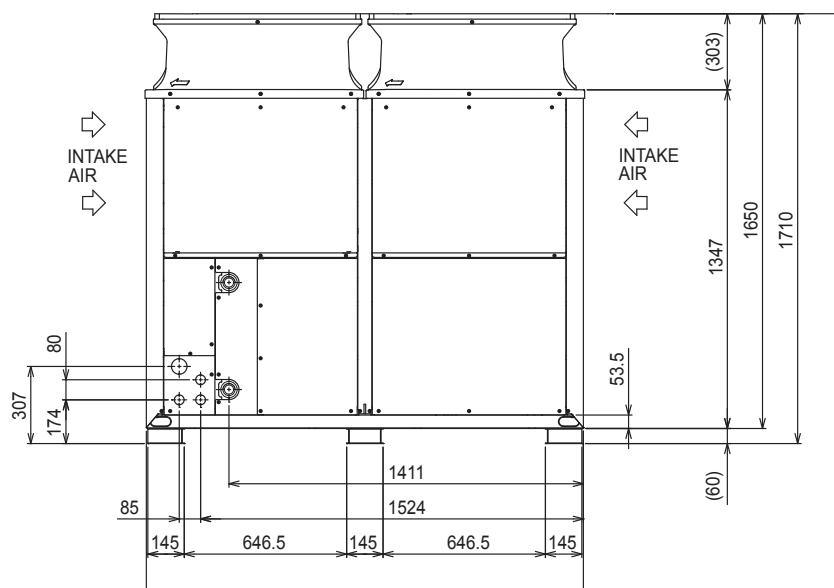
## CAHV-Z450YA-HPB(-BS) Dimensions

All dimensions (mm)

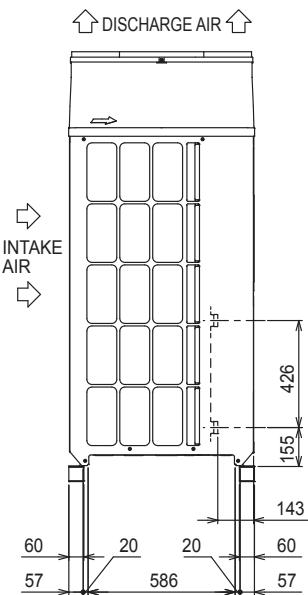
UPPER VIEW



FRONT VIEW



SIDE VIEW



# 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



Certificate Number: 037-0113-23  
Product (Type): Outdoor Air/Water  
Product Reference: CAHV-R450YA-HPB



Certificate Number: 037-0113-23  
Product Type: Air Source Heat Pump  
Product Reference: CAHV-R450YA-HPB(-BS)

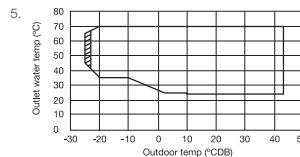
## MODEL

## CAHV-R450YA-HPB(-BS)

POWER SOURCE		3-phase 4-wire 380-400-415V 50/60 Hz	
CAPACITY (EN14511) <sup>1</sup>		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 <sup>2</sup>		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 <sup>3</sup>			10.2 kPa (1.47 psi)
TEMPERATURE RANGE <sup>5</sup>	Outlet water temperature	D.B.	24 - 70°C
	Outdoor temperature	D.B.	-25 - 43°C
CIRCULATING WATER VOLUME RANGE <sup>5</sup>			25 l/min - 250 l/min
SOUND PRESSURE LEVEL (MEASURED 1M BELOW THE UNIT IN AN ANECHOIC ROOM) <sup>114</sup>	dB(A)		64
SOUND PRESSURE LEVEL (MEASURED 1M BELOW THE UNIT IN AN ANECHOIC ROOM) <sup>334</sup>	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
	Lubricant		FVC32EA
FAN	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.

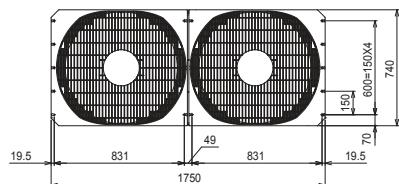


- 4.0 - 15.0 m<sup>3</sup>/h under the following conditions:
  - When the outdoor temperature is below 0°C,
  - When the outlet water temperature is 30°C or below AND the outdoor temperature is 6°C or below.

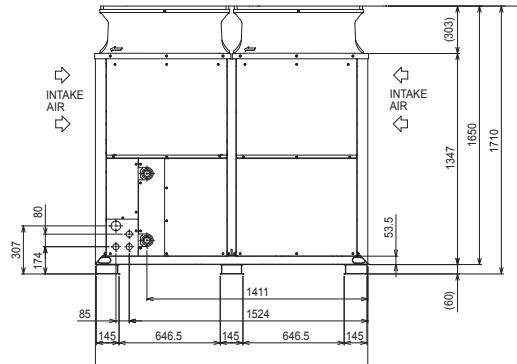
## CAHV-R450YA-HPB(-BS) Dimensions

All dimensions (mm)

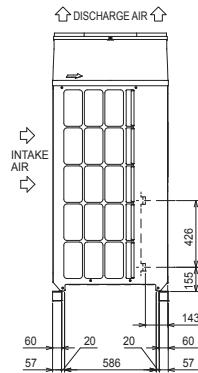
UPPER VIEW



FRONT VIEW



SIDE VIEW



# Partner Programme



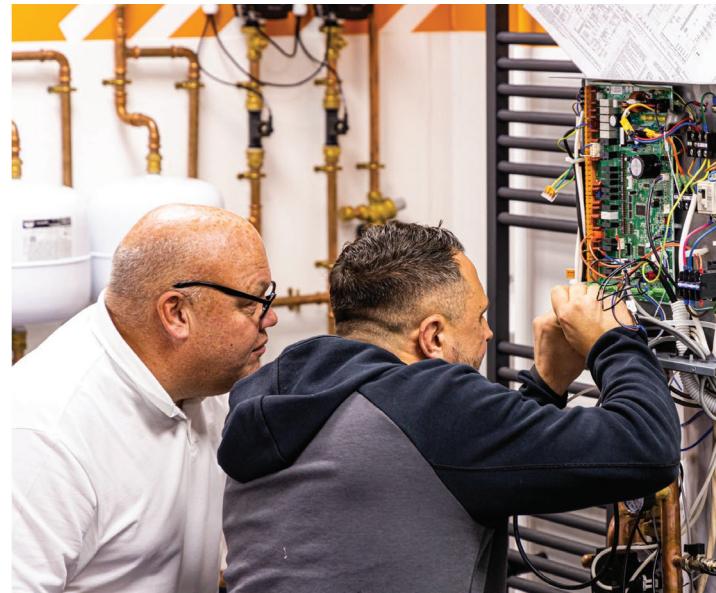
**PARTNER**  
Programme

# 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.



# PARTNER

## Programme

### 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* <sup>1,2</sup>	7 Years* <sup>1</sup>
Free Training Sessions (per annum)	0	0* <sup>3</sup>	5* <sup>3</sup>

\*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](mailto: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.**

### **Pre-Sales**

An Ecodan & Lossnay design service for our partners.



**01707 278 666** (Option 3)



[ecodan.technical@meuk.mee.com](mailto:ecodan.technical@meuk.mee.com)

### **Sales Team**

A regional sales service that covers the whole of the UK mainland are available on the following numbers:



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**



[121heating@meuk.mee.com](mailto:121heating@meuk.mee.com)

### **Operations Team**

We have dedicated resources supporting you managing your orders. Please contact the relevant team using the following details:

Direct Customers:



**01707 278 555**



[lesheating.admin@meuk.mee.com](mailto:lesheating.admin@meuk.mee.com)

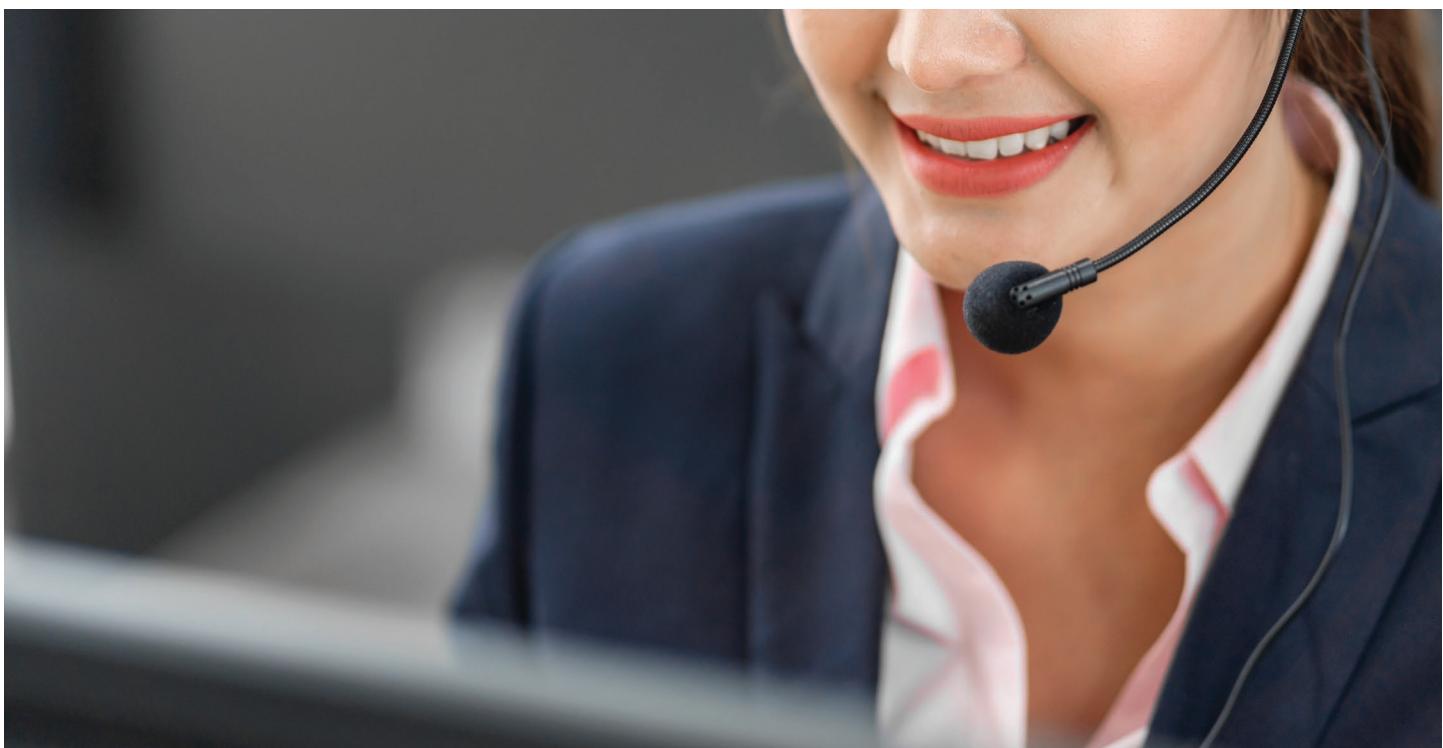
Merchants & Distribution:



**01707 282 855**



[lesmerchantadmin@meuk.mee.com](mailto:lesmerchantadmin@meuk.mee.com)



## How to contact us

### 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](mailto: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](mailto: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](mailto:partner@meuk.mee.com)



**UNITED KINGDOM** Mitsubishi Electric Europe Living Environment Systems Division,  
Travellers Lane, Hatfield, Hertfordshire, AL10 8XB, England. Telephone: 01707 282880

**IRELAND** Mitsubishi Electric Europe,

Plunkett House, Grange Castle Business Park, Nangor Road, Dublin 22, Ireland. Telephone: (00353) 1 4198800 Email: [sales.info@meir.mee.com](mailto:sales.info@meir.mee.com) Web: [les.mitsubishielectric.ie](http://les.mitsubishielectric.ie)

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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