



2023 Product Catalogue

Market leading solutions to **cool, heat,
ventilate & control** the nation's buildings

Welcome to Mitsubishi Electric

Mitsubishi Electric is a market leader in providing solutions to cool, heat, ventilate and control our buildings.

As a major manufacturer of some of these pivotal technologies, we hold the UK's energy challenges close to our heart. We want to help the nation achieve its climate goals; we want to help individuals and businesses reduce the energy consumption of their buildings, whilst also helping to reduce their annual running costs.

At Mitsubishi Electric, we are constantly evolving and today our areas of expertise go way beyond the advanced air conditioning systems that formed the foundation of our business. Here in the UK, we provide advanced solutions that cool, heat, ventilate and control buildings in the most energy efficient and cost-effective ways possible. Through technical expertise, experience and an innovative product range, we enable buildings everywhere to significantly improve energy efficiency, reduce running costs and adhere to increasingly tough legislation. **We also provide a variety of additional services and benefits to our customers which include:**

- Product training and technical support
- CPD guides and presentations
- Apps and tools
- Contractor Partner Programme
- Design and consultancy services

Working towards a better use of energy in buildings

Mitsubishi Electric's global framework for realising a sustainable planet - **Environmental Sustainability Vision 2050** - is translated in the UK into our **Green Gateway philosophy**, which is central to the way we do business. With this initiative, we are seeking to use our position as a manufacturer of key technologies to increase awareness and improve energy use in the built environment.

By constantly challenging everyone involved to combat the issues we all face and encouraging constructive dialogue throughout the industry, we aim to help everyone address their energy use and to work towards a more sustainable future. Working within the construction industry in this way we are continually developing energy efficient cooling, heating and ventilation solutions - all managed by the most advanced control systems available.



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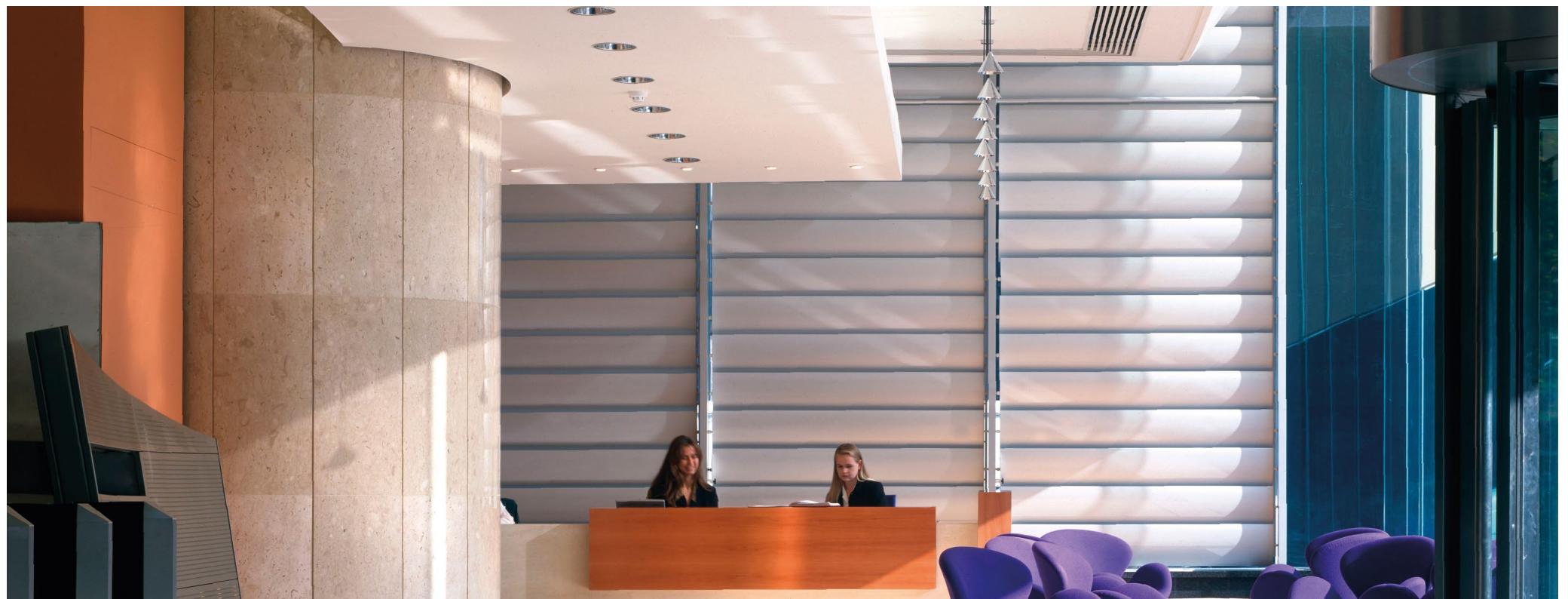


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Air Conditioning

Designed to reduce energy consumption
and running costs in the built environment





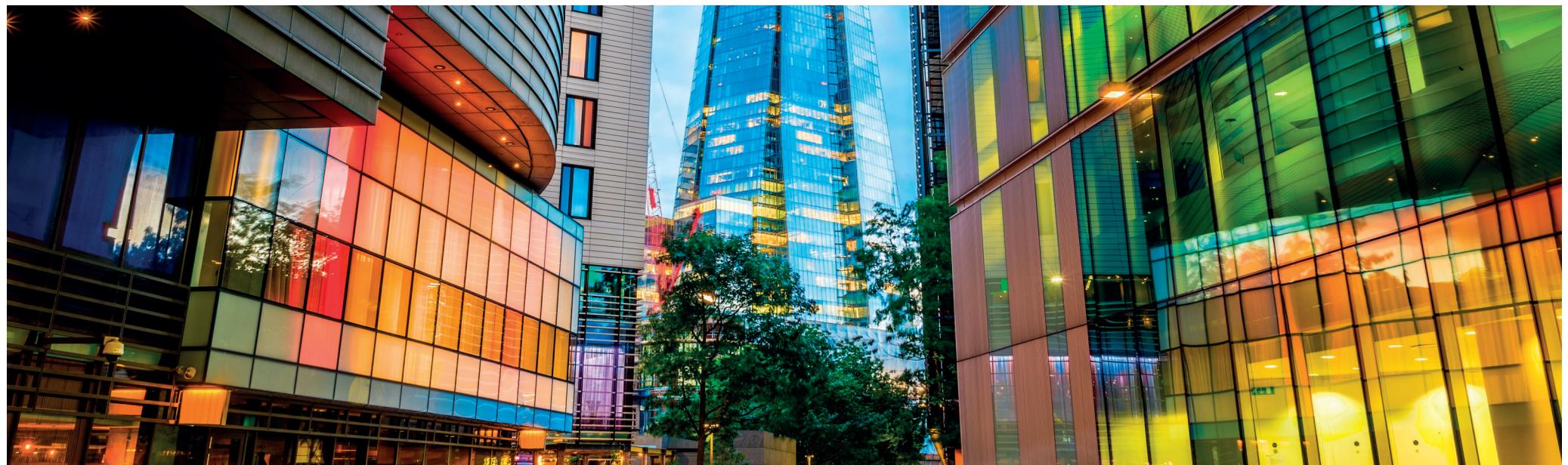
Energy Efficient Air Conditioning Systems

The need for Air Conditioning

Today's commercial buildings are increasingly air tight and filled with heat generating office equipment and lighting, which presents a problem for anyone trying to maintain a stable and comfortable internal environment. With buildings accounting for around half of all UK greenhouse emissions, legislation is demanding increased energy efficiency and higher standards of air quality.

To reduce the impact of the built environment, the challenge is to find cooling, heating, ventilation and control solutions that match energy efficiency with complete flexibility of design and control.

Our innovative and pioneering air conditioning systems offer more than double the efficiency levels of 10-15 year old systems and can also be far more efficient than traditional methods of cooling and heating buildings, resulting in reduced running costs and lower carbon emissions. Today's systems can simultaneously heat and cool different spaces to balance energy use across a building and sanitary hot water can even be supplied from the same system.



Energy Efficient Air Conditioning Systems

The benefits of our Air Conditioning Systems

As a market leader, we pride ourselves in providing high performance and competitive systems with low running costs.

By utilising heat pump technology, our air conditioning units not only provide cooling, but also heating and often sanitary hot water. Heat pump technology requires only a small amount of electricity to harvest, upgrade and move heat from one location to another, and providing heating and hot water as part of an integrated air conditioning system is far more efficient than traditional heating methods such as gas.

The 2014 F-Gas Regulations have and will continue to bring about significant changes to the air conditioning industry however, affecting end users, facilities managers, specifiers and installers alike. This landmark ruling has one key objective: to reduce F-Gas emissions by 79% between 2015 and 2030, by cutting the availability of hydrofluorocarbons (HFCs) with a high Global Warming Potential (GWP). Since the UK left the European Union, F Gas regulations have been overseen by DEFRA (the Department for Environment, Food & Rural Affairs). However, the UK continues to use the same schedule as the EU to phase down HFCs and the UK government has stated that it will follow the EU path in future.

R32

It's time therefore to look at alternative, lower GWP refrigerants such as R32

Already making up 50% of the existing R410A refrigerant found in many current air conditioning systems, R32 has a GWP of 675 (one third that of R410A), is highly energy efficient and is easy to recycle. Plus, the volumetric capacity of R32 is around 20% higher than that of R410A, which means system refrigerant volumes are lower.

R32 refrigerant is utilised in our newest, state-of-the-art products.

Benefits of R32

- Lower GWP of 675
- High efficiency refrigerant
- F-Gas phase down compliant
- Less refrigerant volume requirement compared to R410A
- Affordable & readily available
- A single component refrigerant
- Easy to handle, reuse and recycle



Energy Efficient Air Conditioning Systems

Ideal products that make a world of difference

There are two main types of air conditioning systems; **Split-Systems** which include the M Series and Mr Slim ranges, and **Variable Refrigerant Flow (VRF) Systems** which incorporate the City Multi range.

Split-Systems

Mitsubishi Electric Split-Systems were the first products in our range to begin the switch to the lower GWP refrigerant, R32. Consisting of our M Series and Mr Slim ranges of air conditioning, these systems are an ideal option for all medium sized premises such as offices, retail establishments or leisure facilities that have a heating or cooling requirement.

Our entire range of split-systems now utilise R32 refrigerant - these are made up of our M Series wall and floor mounted ranges, our MXZ Multi-Split range of products, and our Mr Slim Power Inverter, Standard Inverter and Inverter systems.

Split-Systems are also able to operate with up to six indoor units connected to a single outdoor unit, so with a full range of indoor units available in ceiling cassettes, ceiling concealed ducted, wall mounted, ceiling suspended or floor mounted types, the application options are considerable.



MR SLIM
Power Inverter,
Standard Inverter
and Inverter
models are
available using

R32
REFRIGERANT



Energy Efficient Air Conditioning Systems

Ideal products that make a world of difference

VRF & Hybrid VRF Systems

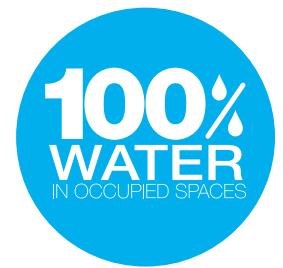
First developed 30 years ago, City Multi is the market leader in VRF (Variable Refrigerant Flow) technology. Specifically designed to deliver comfort and control for today's building requirements, it addresses all the key market issues.

VRF is a multi and direct expansion type air conditioning system where one outdoor unit is connected with multiple indoor units, intelligently modulating the flow of refrigerant depending upon the capacity requirements of each zone within a building. Its ultimate purpose is to regulate the internal air temperature and comfort levels in the most effective and efficient manner possible.



The Hybrid VRF (HVRF) system delivers optimum comfort and efficiency, using an innovative combination of unique 2-pipe VRF technology and water to provide simultaneous heating and cooling with heat recovery.

Providing a complete modern solution for a variety of applications, Hybrid VRF is quick, easy & flexible to design and install using the same control and network as VRF systems. With water at the indoor units, Hybrid VRF provides comfortable and stable air temperature control with no refrigerant in occupied spaces, meaning simple compliance to BS EN378 and removing the need for leak detection.



Plasma Quad Connect Air Purifying Device

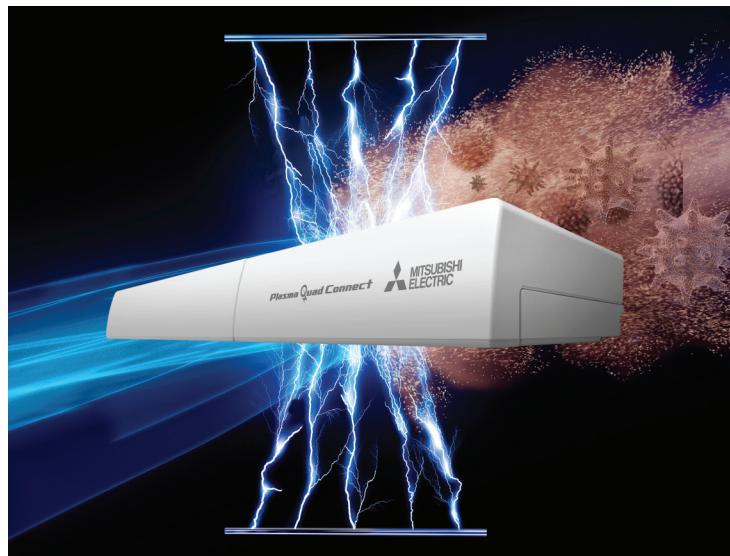
Good Indoor Air Quality (IAQ) is vital, and Mitsubishi Electric's powerful bolt-on air purifying device delivers Plasma Quad Technology to both new and existing installations of our **M Series**, **Mr Slim** and **City Multi** indoor units.

Plasma Quad Technology significantly improves indoor air quality by neutralising 6 key indoor pollutants, as well as inhibits 99.8% of SARS-CoV-2*, providing peace of mind and reassurance for the physical and mental wellbeing of building occupants.

Plasma Quad Connect is the ideal solution for a broad range of applications; including hotels, education, healthcare, leisure and offices. It works like an electrical curtain to catch and neutralise even microscopic particles in the air, significantly improving indoor air quality.

Key Features & Benefits

- Plasma Quad Technology effectively neutralises 6 key indoor pollutants, as well as inhibits 99.8% of SARS-CoV-2*
- Broad compatibility - allowing connectivity to a wide range of M Series, Mr Slim and City Multi indoor units
- Install flexibility - cost-effective bolt-on solution for new and existing air conditioning systems
- Premium construction allows for easy maintenance and low cost of ownership



How it Works

Stage One ➔

Produces plasma to:

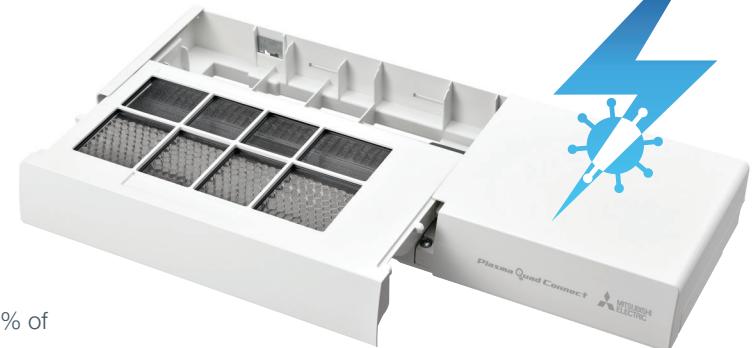
- Inhibit viruses and bacteria
- Break down allergens and mould
- Electrically (+) charge dust and microscopic particles PM2.5

Stage Two ➔

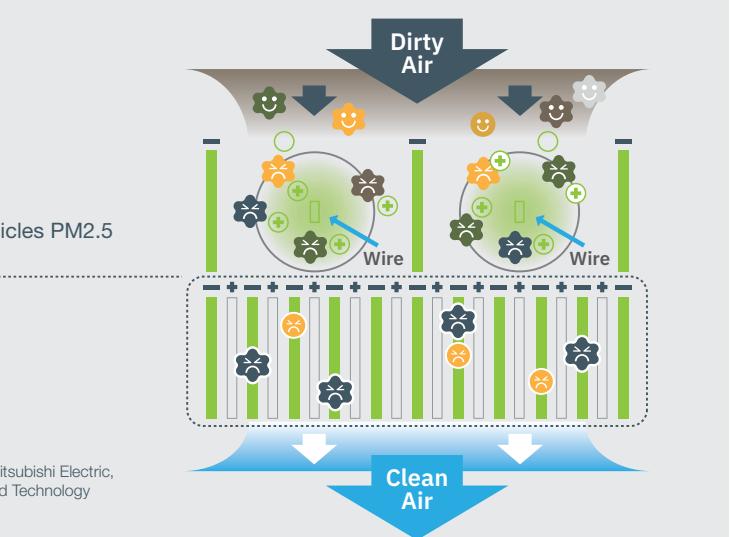
Creates a strong electrical (-) field to:

- Absorb dust and microscopic particles PM2.5

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



Plasma Quad
Technology inhibits
SARS-CoV-2 by
99.8%



Energy Efficient Air Conditioning Systems

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M Series

Room Air Conditioning





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Mseries**Room Air Conditioning**

The Adaptable M Series Range

Designed to cool or heat small to medium sized spaces, such as residential, retail and small office applications, the M Series range provides a versatile, yet affordable air conditioning solution.

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.


R32

Wall Mounted Systems

- Top of the range 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

Key Features

- The entire M Series range is available using lower GWP R32 refrigerant
- Wi-Fi enabled, allowing control and monitoring via the MELCloud app (compatible with Amazon Alexa or Google Assistant-enabled devices)
- Stylish indoor units, available in a variety of colours



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

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

MSZ-LN R32

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.

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



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) Cooling (nominal) Heating (UK) Cooling (UK)	2.0 (0.9 - 4.0) 1.8 (0.9 - 3.0) - -	3.2 (0.8 - 5.4) 2.5 (1.0 - 3.5) 2.64 (0.66 - 4.45) 2.48 (0.99 - 3.47)	4.0 (1.0 - 6.3) 3.5 (0.8 - 4.0) 3.3 (0.83 - 5.2) 3.47 (0.79 - 3.96)	6.0 (1.0 - 8.2) 5.0 (1.0 - 6.0) 4.94 (0.82 - 6.75) 4.95 (0.99 - 5.94)	6.8 (1.8 - 9.3) 6.1 (1.4 - 6.9) 5.6 (1.48 - 7.66) 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) Cooling (SLo-Lo-Mi-Hi-SHi)	67-95-118-142-240 71-97-118-147-198	67-95-118-142-240 71-97-118-147-198	71-97-118-142-228 71-97-118-147-213	90-107-142-178-262 95-127-148-177-232	110-158-192-227-262 118-147-177-212-262
PIPE SIZE MM (in)	Gas Liquid	9.52 (3/8") 6.35 (1/4")	9.52 (3/8") 6.35 (1/4")	9.52 (3/8") 6.35 (1/4")	9.52 (3/8") 6.35 (1/4")	12.7 (1/2") 6.35 (1/4")
SOUND PRESSURE LEVEL (dBA)	Heating (SLo-Lo-Mi-Hi-SHi) Cooling (SLo-Lo-Mi-Hi-SHi)	19-24-29-36-45 19-23-29-36-42	19-24-29-36-45 19-23-29-36-42	19-24-29-36-45 19-24-29-36-43	25-29-34-39-47 27-31-35-39-46	29-37-41-45-49 29-37-41-45-49
SOUND POWER LEVEL (dBA)	-	58	58	58	60	65
DIMENSIONS (mm)	Width x Depth x Height	890 x 233 x 307	890 x 233 x 307	890 x 233 x 307	890 x 233 x 307	890 x 233 x 307
WEIGHT (kg)	-	15.5	15.5	15.5	15.5	15.5
ELECTRICAL SUPPLY	-	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit
FUSE RATING (BS88) - HRC (A)	-	6	6	6	6	6
INTERCONNECTING CABLE No. CORES	-	4	4	4	4	4

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

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

* 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.

Accessories

Indoor Units

MAC-1300RC-E

Natural white remote controller holder

Outdoor Units

MAC-881SG

Air outlet guide for MUZ-LN25/35VG2

MAC-882SG

Air outlet guide for MUZ-LN50VG2

System Control Units

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB = Premium Finish)

PAR-41MAA

Standard wired remote controller

MAC-334IF-E

Interface for M-NET, MA remote controller
(PAR-41MAA / PAR-CT01MAA),
on/off input and run/fault output

MAC-497IF-E

Interface for MA remote controller
(PAR-41MAA / PAR-CT01MAA)

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

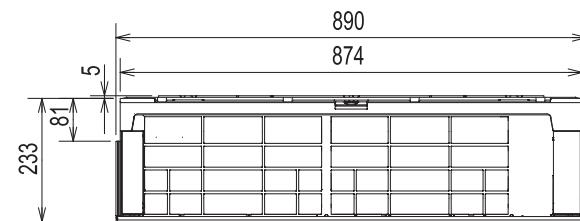
MELCORETAIL MINI

Retail control and input / output interface

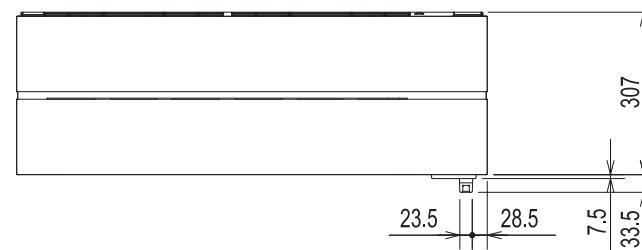
Product Dimensions

MSZ-LN18/25/35/50/60VG2 R/B/V/W

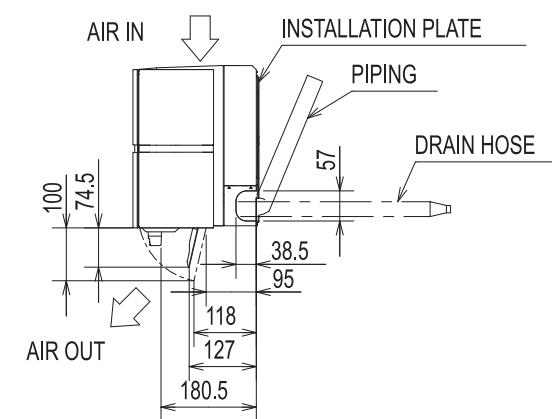
Upper View



Front View



Side View



MSZ-EF R32

Zen Wall Mounted System

Inverter Heat Pump



Black (B)



Silver (S)



White (W)



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. For more information, please refer to page 1.1.7



MSZ-EF B/S/W - 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) Cooling (nominal) 1.8 (0.9 - 3.0) Heating (UK) -	2.6 (1.0-4.5) 2.2 (1.0-3.2) -	3.2 (1.0-4.2) 2.5 (0.9-3.4) -	4.0 (1.3-5.1) 3.5 (1.1-4.0) 2.65 (0.91-3.49)	5.8 (1.4-7.5) 5.0 (1.4-5.4) 3.32 (1.08-4.23) 4.82 (1.16-6.23)
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/Cooling - SLo-Lo-Mi-Hi-Shi 67-77-103-148-198 / 67-77-105-138-175	67-77-103-148-198 / 67-77-105-138-175	67-77-103-148-198 / 67-77-105-138-175	67-77-103-148-212 / 67-77-105-138-175	107-120-150-185-243 / 97-113-132-153-188
PIPE SIZE mm (in)	Gas 9.52 (3/8") Liquid 6.35 (1/4")	9.52 (3/8") 6.35 (1/4")	9.52 (3/8") 6.35 (1/4")	9.52 (3/8") 6.35 (1/4")	9.52 (3/8") 6.35 (1/4")
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling - SLo-Lo-Mi-Hi-Shi 21-24-29-37-45 / 19-23-29-36-42	21-24-29-37-45 / 19-23-29-36-42	21-24-29-37-45 / 19-23-29-36-42	21-24-30-38-46 / 21-24-30-36-42	30-33-37-43-49 / 30-33-36-40-43
SOUND POWER LEVEL (dBA)	60	60	60	60	60
DIMENSIONS (mm)	Width x Depth x Height 885 x 195 x 299	885 x 195 x 299	885 x 195 x 299	885 x 195 x 299	885 x 195 x 299
WEIGHT (kg)	11.5	11.5	11.5	11.5	11.5
ELECTRICAL SUPPLY	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit
FUSE RATING (BS88) - HRC (A)	6	6	6	6	6
INTERCONNECTING CABLE No. CORES	4	4	4	4	4

Notes: Black (B), Silver (S), White (W)

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

Accessories

Indoor Units

MAC-100FT-E

Plasma Quad Connect Air Purifying Device

MAC-1300RC-E

Natural white remote controller holder

Outdoor Units

MAC-881SG

Air outlet guides for MUZ-EF25/35VG

MAC-882SG

Air outlet guides for MUZ-EF50VG

System Control Units

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB = Premium Finish)

PAR-41MAA

Standard wired remote controller

MAC-334IF-E

Interface for M-NET, MA remote controller
(PAR-41MAA / PAR-CT01MAA),
on/off input and run/fault output

MAC-497IF-E

Interface for MA remote controller
(PAR-41MAA / PAR-CT01MAA)

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

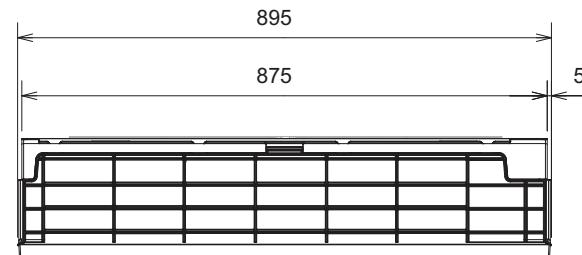
MELCORETAIL MINI

Retail control and input / output interface

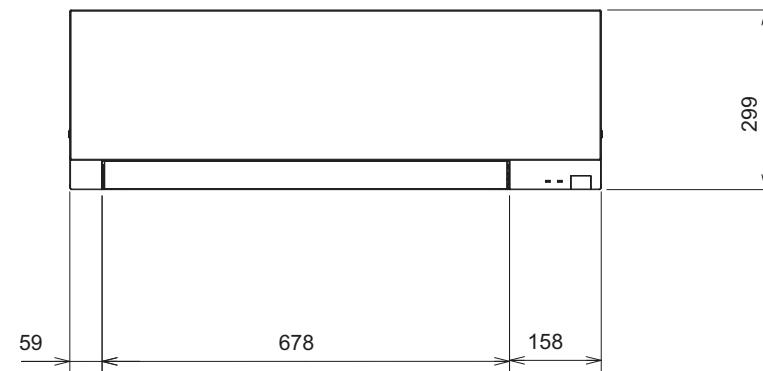
Product Dimensions

MSZ-EF18/22/25/35/50VGK B/S/W

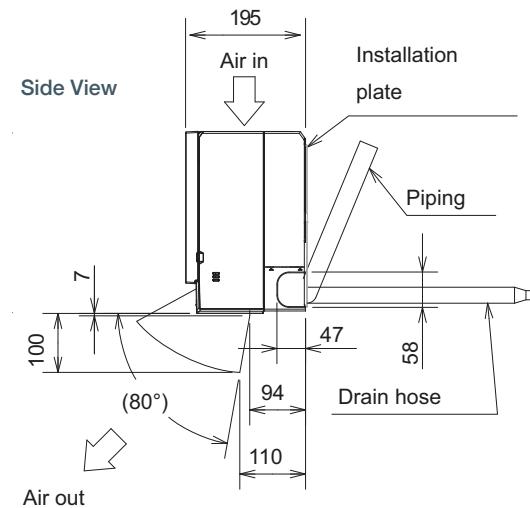
Upper View



Front View



Side View



MSZ-AP/MSZ-AY R32

Elegance Wall Mounted System

Inverter Heat Pump



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

Key Features & Benefits

- Elegant and sleek design to complement multiple application types
- High seasonal efficiencies, offering energy saving and low running costs
- Low noise levels, including Night Mode setting, for minimal disturbance to occupants
- Built in Wi-Fi interface enables system control & monitoring via the Mitsubishi Electric MELCloud app; plus voice control - compatible with Amazon Alexa or Google Assistant-enabled devices
- Dual-Barrier coating on the heat exchanger, fan and air duct prevents dust and grease accumulation within the unit, ensuring long-term, efficient operation (MSZ-AY only)
- Self-cleaning mode prevents mould and odours, allowing cleaner air to be delivered to the space (MSZ-AY only)
- Luxury Matt finish ensures easy cleaning and consistent premium appearance (MSZ-AY only)
- In-room air purification through an advanced V-Blocking filter, neutralising bacteria, viruses, allergens, dust and mould
- Compatible with Plasma Quad Connect - an innovative, bolt-on air purifying device which neutralises viruses, bacteria, allergens, PM2.5, mould and dust. For more information, please refer to page 1.1.7



MSZ-AP / MSZ-AY - INDOOR UNITS	MSZ-AP15VGK	MSZ-AP20VGK	MSZ-AY25VGK	MSZ-AY35VGK	MSZ-AY42VGK	MSZ-AY50VGK	MSZ-AP60VGK	MSZ-AP71VGK
CAPACITY (kW)	Heating (nominal) 1.7 (1.2-3.0)	2.5 (0.5-3.5)	3.2 (1.0-4.1)	4.0 (1.3-4.6)	5.2 (1.3-6.0)	5.5 (1.4-7.3)	6.8 (2.0-8.6)	8.0 (2.2-10.3)
	Cooling (nominal) 1.5 (0.9-2.7)	2.0 (0.8-2.7)	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) -	2.06 (0.4-2.9)	2.64 (0.8-3.4)	3.3 (1.1-3.8)	4.45 (1.1-4.9)	4.78 (1.2-6.0)	5.6 (1.6-7.1)	6.68 (1.8-8.6)
	Cooling (UK) -	1.98 (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)	-	4.10 / 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
EP 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-Mid-Hi-Sh) 62-73-83-100-113	62-73-83-100-122	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-Mid-Hi-Sh) 58-65-77-92-107	58-65-77-92-115	60-83-105-130-175	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") Liquid 6.35 (1/4")	9.52 (3/8") 6.35 (1/4")	9.52 (3/8") 6.35 (1/4")	9.52 (3/8") 6.35 (1/4")	9.52 (3/8") 6.35 (1/4")	12.7 (1/2") 6.35 (1/4")	12.7 (1/2") 6.35 (1/4")	
SOUND PRESSURE LEVEL (dBA)	Heating (Slo-Lo-Mid-Hi-Sh) 21-26-30-35-40	21-26-30-35-42	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-Mid-Hi-Sh) 21-26-30-35-40	21-26-30-35-42	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)	59	60	57	57	57	58	65	65
DIMENSIONS (mm)	Width x Depth x Height 760 x 178 x 250	760 x 178 x 250	798 x 245 x 299	1100 x 257 x 325	1100 x 257 x 325			
WEIGHT (kg)	8.2	8.2	10.5	10.5	10.5	10.5	16	17
ELECTRICAL SUPPLY	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit
FUSE RATING (BS88) - HRC (A)	6	6	6	6	6	6	6	6
INTERCONNECTING CABLE No. CORES	4	4	4	4	4	4	4	4
MUZ-AP - OUTDOOR UNITS	MULTI-SPLIT ONLY	MUZ-AP20VG	MUZ-AY25VG	MUZ-AY35VG	MUZ-AY42VG	MUZ-AY50VG	MUZ-AP60VG	MUZ-AP71VG
SOUND PRESSURE LEVEL (dBA) Heating/Cooling	-	48 / 47	48 / 47	50 / 49	51 / 50	52 / 52	57 / 56	55 / 55
SOUND POWER LEVEL (dBA) Cooling	-	59	59	61	61	64	65	65
WEIGHT (kg)	-	31	27	28.5	34	40.5	40	55
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					
PHASE	-	Single	Single	Single	Single	Single	Single	Single
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal) 0.60 / 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) 0.52 / 0.38	0.70 / 0.50	0.93 / 0.83	1.25 / 1.08	1.32 / 1.28	1.51 / 1.33	1.91 / 1.68	
STARTING CURRENT (A)	-	3.2	3.6	4.7	6.1	6.9	7.4	9.3
SYSTEM RUNNING CURRENT (A) Heating/Cooling [MAX]	-	3.2 / 2.6 [7.0]	3.6 / 2.9 [7.6]	4.7 / 4.5 [7.6]	6.1 / 5.8 [9.9]	6.5 / 6.9 [13.8]	7.4 / 7.1 [14.0]	9.3 / 8.8 [16.4]
FUSE RATING (BS88) - HRC (A)	-	10	10	10	10	16	16	20
MAINS CABLE NO. CORES	-	3	3	3	3	3	3	3
MAX PIPE LENGTH (m)	-	20	20	20	20	20	30	30
MAX HEIGHT DIFFERENCE (m)	-	12	12	12	12	12	15	15
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	- R32 (GWP 675) - 7m	0.55 / 0.38	0.55 / 0.37	0.55 / 0.37	0.70 / 0.47	1.00 / 0.68	1.05 / 0.71	1.50 / 1.02
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	- R32 (GWP 675)	0.26 / 0.18	0.26 / 0.18	0.26 / 0.18	0.26 / 0.18	0.30 / 0.21	0.30 / 0.21	0.30 / 0.21

Accessories

Indoor Units

MAC-100FT-E

Plasma Quad Connect Air Purifying Device

MAC-1300RC-E

Natural white remote controller holder

Outdoor Units

MAC-881SG

Air outlet guide for MUZ-AP20VG, MUZ-AY25/35/42VG

MAC-882SG

Air outlet guide for MUZ-AY50VG, MUZ-AP60VG

MAC-886SG

Air outlet guide for MUZ-AP71VG

System Control Units

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB = Premium Finish)

PAR-41MAA

Standard wired remote controller

MAC-334IF-E

Interface for M-NET, MA remote controller
(PAR-41MAA / PAR-CT01MAA),
on/off input and run/fault output

MAC-497IF-E

Interface for MA remote controller
(PAR-41MAA / PAR-CT01MAA)

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

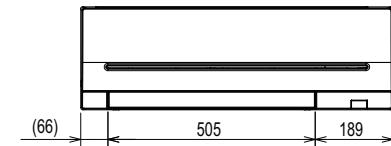
MELCORETAIL MINI

Retail control and input / output interface

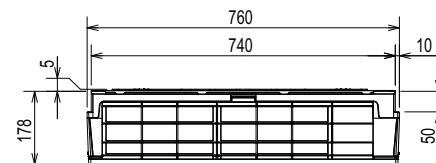
Product Dimensions

MSZ-AP15-20VGK

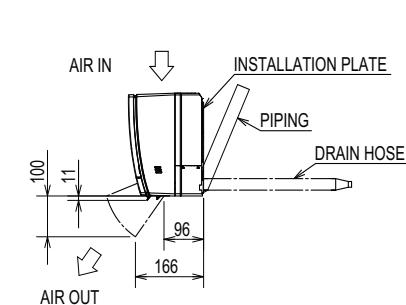
Front View



Upper View



Side View



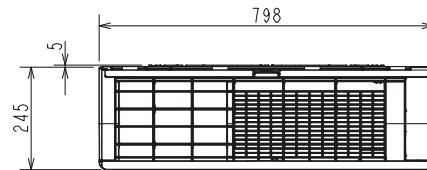
Product Dimensions

MSZ-AY25-50VGK

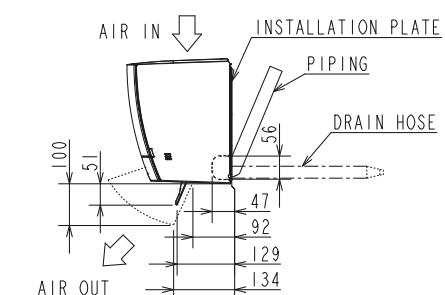
Front View



Upper View



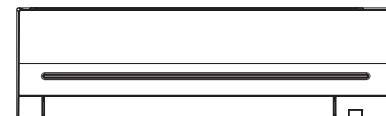
Side View



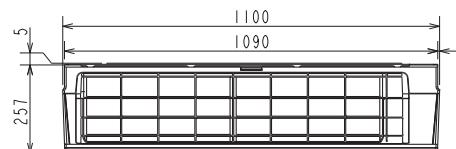
Product Dimensions

MSZ-AP60-71VGK

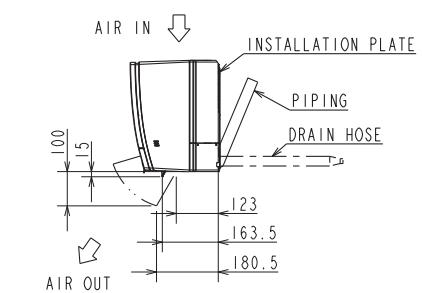
Front View



Upper View



Side View



MSZ-HR R32

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.

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. For more information, please refer to page 1.1.7



MSZ-HR - INDOOR UNITS	MSZ-HR25VF	MSZ-HR35VF	MSZ-HR50VF	MSZ-HR60VF	MSZ-HR71VF
CAPACITY (kW)	Heating (nominal) 3.15 (0.7-3.5) Cooling (nominal) 2.5 (0.5-2.9)	3.6 (0.9-3.7) 3.4 (0.9-3.4)	5.4 (1.4-6.5) 5.0 (1.3-5.0)	6.8 (1.5-9.0) 6.1 (1.7-7.4)	8.1 (1.5-9.0) 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	A+ / A++	A+ / A++	A+ / A++	A+ / A++	A+ / A++
AIRFLOW (l/s)	Heating/Cooling - Lo-Mi-Hi-Shi 55-90-123-168 / 60-90-120-162	55-90-123-175 / 60-93-130-195	102-138-187-242 / 107-153-187-218	178-218-278-327 / 173-210-257-327	178-218-278-327 / 173-210-257-327
PIPE SIZE mm (in)	Gas 9.52 (3/8") Liquid 6.35 (1/4")	9.52 (3/8") 6.35 (1/4")	9.52 (3/8") 6.35 (1/4")	12.7 (1/2") 6.35 (1/4")	12.7 (1/2") 6.35 (1/4")
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling - Lo-Mi-Hi-Shi 21-30-37-43 / 21-30-37-43	21-30-37-44 / 22-31-38-46	27-34-41-47 / 28-36-40-45	33-38-44-50 / 33-38-44-50	33-38-44-50 / 33-38-44-50
SOUND POWER LEVEL (dBA)	57	60	60	65	65
DIMENSIONS (mm)	Width x Depth x Height 838 x 228 x 280	838 x 228 x 280	838 x 228 x 280	923 x 263 x 305	923 x 263 x 305
WEIGHT (kg)	8.5	8.5	9	12.5	12.5
ELECTRICAL SUPPLY	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit
FUSE RATING (BS88) - HRC (A)	6	6	6	6	6
INTERCONNECTING CABLE No. CORES	4	4	4	4	4

MUZ-HR - OUTDOOR UNITS	MUZ-HR25VF	MUZ-HR35VF	MUZ-HR50VF	MUZ-HR60VF	MUZ-HR71VF
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling 50 / 50	51 / 51	51 / 50	57 / 53	57 / 53
SOUND POWER LEVEL (dBA)	Cooling 63	64	64	65	66
WEIGHT (kg)	23	24	35	40	40
DIMENSIONS (mm)	Width x Depth x Height 699 x 249 x 538	699 x 249 x 538	800 x 285 x 550	800 x 285 x 714	800 x 285 x 714
ELECTRICAL SUPPLY	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
PHASE	Single	Single	Single	Single	Single
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal) 0.85 / 0.80 Heating/Cooling (UK) 0.77 / 0.63	0.98 / 1.21 0.89 / 0.96	1.55 / 2.05 1.40 / 1.62	1.81 / 1.81 1.63 / 1.52	2.44 / 2.33 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	20	20
MAX HEIGHT DIFFERENCE (m)	12	12	12	12	12
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) - R32 (GWP 675)	0.40 / 0.27	0.45 / 0.30	0.80 / 0.54	1.05 / 0.71	1.05 / 0.71
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) - R32 (GWP 675)	0.26 / 0.18	0.26 / 0.18	0.26 / 0.18	0.46 / 0.32	0.46 / 0.32

Accessories

Indoor Units

MAC-100FT-E

Plasma Quad Connect Air Purifying Device

MAC-1200RC-E

Natural white remote controller holder

Outdoor Units

MAC-883SG

Air outlet guide for MUZ-HR25/35VF

MAC-881SG

Air outlet guide for MUZ-HR50VF

MAC-882SG

Air outlet guide for MUZ-HR60/71VF

System Control Units

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB = Premium Finish)

PAR-41MAA

Standard wired remote controller

MAC-334IF-E

Interface for M-NET, MA remote controller
(PAR-41MAA / PAR-CT01MAA),
on/off input and run/fault output

MAC-497IF-E

Interface for M-NET, MA remote controller
(PAR-41MAA / PAR-CT01MAA)

MAC-587IF-E

Interface for connection to Wi-Fi MELCloud service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

Retail control and input / output interface

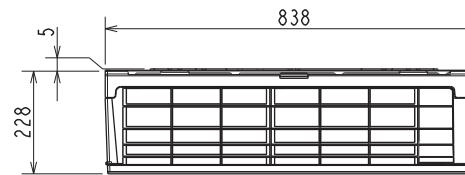
Product Dimensions

MSZ-HR25/35/50VF

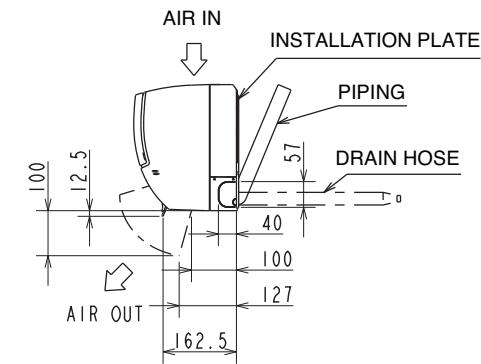
Front View



Upper View



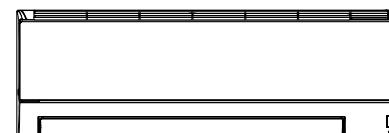
Side View



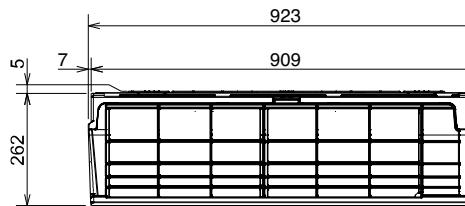
Product Dimensions

MSZ-HR60/71VF

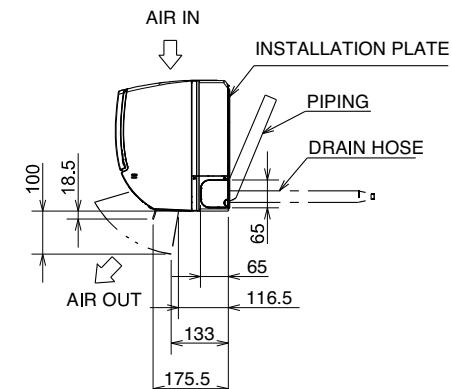
Front View



Upper View



Side View



MFZ-KT R32

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, garden rooms and small offices where wall space is limited.

Key Features & Benefits

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



MFZ-KT - INDOOR UNITS	MFZ-KT25VG	MFZ-KT35VG	MFZ-KT50VG	
CAPACITY (kW)	Heating (nominal) Cooling (nominal) Heating (UK) Cooling (UK)	3.4 (1.3-4.2) 2.5 (1.6-3.2) 2.79 (1.07-3.44) 2.45 (1.57-3.14)	4.3 (1.1-5.0) 3.5 (0.9-3.9) 3.53 (0.9-4.10) 3.43 (0.88-3.82)	6.0 (1.5-7.2) 5.0 (1.2-5.6) 4.92 (1.23-5.90) 4.90 (1.18-5.49)
SHF (nominal)		0.79	0.70	0.72
COP / EER (nominal)		3.74 / 4.03	3.41 / 3.30	3.23 / 3.23
SCOP / SEER (BS EN14825)		4.2 / 6.5	4.4 / 6.6	4.2 / 6.8
ErP ENERGY EFFICIENCY CLASS	Heating/Cooling	A+ / A++	A+ / A++	A+ / A++
AIRFLOW (l/s)	Heating - Silent-Lo-Mi-Hi-Shi Cooling - Silent-Lo-Mi-Hi-Shi	58-67-93-122-162 65-80-108-130-148	58-67-93-122-162 65-80-108-130-148	100-128-157-193-233 93-112-143-173-205
PIPE SIZE mm (in)	Gas Liquid	9.52 (3/8") 6.35 (1/4")	9.52 (3/8") 6.35 (1/4")	12.7 (1/2") 6.35 (1/4")
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling - Silent-Lo-Mi-Hi-Shi	19-23-30-37-44 / 19-24-31-37-41	19-23-30-37-44 / 19-24-31-37-41	29-35-40-44-49 / 28-32-37-42-48
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) Heating/Cooling (UK)	0.80 / 0.71 0.68 / 0.61	1.07 / 1.00 0.91 / 0.86	1.61 / 1.54 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 ₂ EQUIVALENT (T) - R32 (GWP 675) - 7M		0.65 / 0.44	0.90 / 0.61	1.20 / 0.81
MAX ADDITIONAL REFRIGERANT (KG) / CO ₂ EQUIVALENT (T) - R32 (GWP 675)		0.26 / 0.18	0.26 / 0.18	0.46 / 0.31

Accessories

Outdoor Units

MAC-881SG

Air outlet guide for SUZ-M25/35VAR2

MAC-882SG

Air outlet guide for SUZ-M50VAR2

System Control Units

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB = Premium Finish)

PAR-41MAA

Standard wired remote controller

MAC-334IF-E

Interface for M-NET, MA remote controller
(PAR-41MAA / PAR-CT01MAA),
on/off input and run/fault output

MAC-497IF-E

Interface for MA remote controller
(PAR-41MAA / PAR-CT01MAA)

MAC-587IF-E

Interface for connection to Wi-Fi MELCloud service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

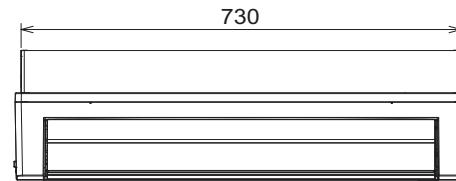
MELCORETAIL MINI

Retail control and input / output interface

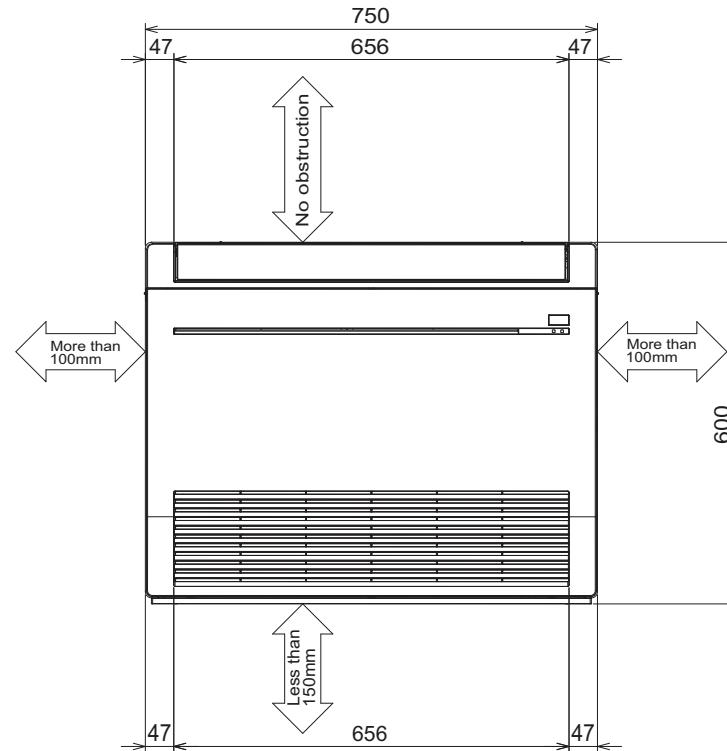
Product Dimensions

MFZ-KT25/35/50VG

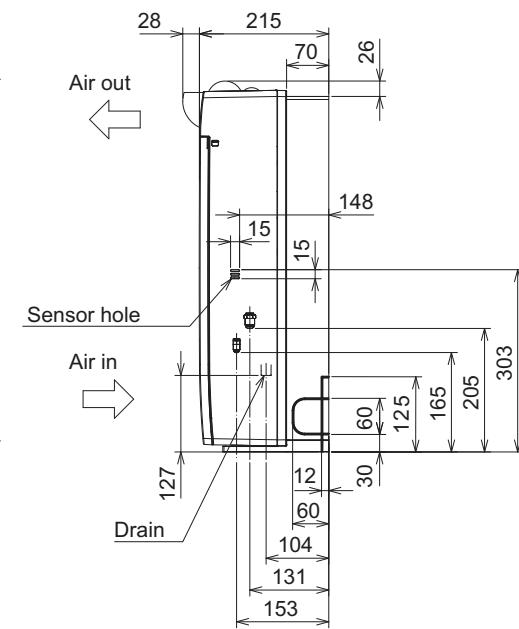
Upper View



Front View



Side View

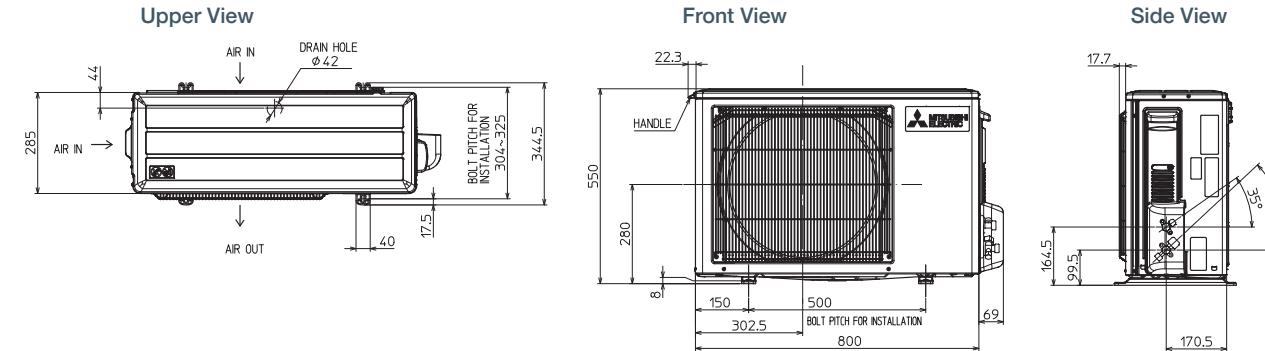


Outdoor Units



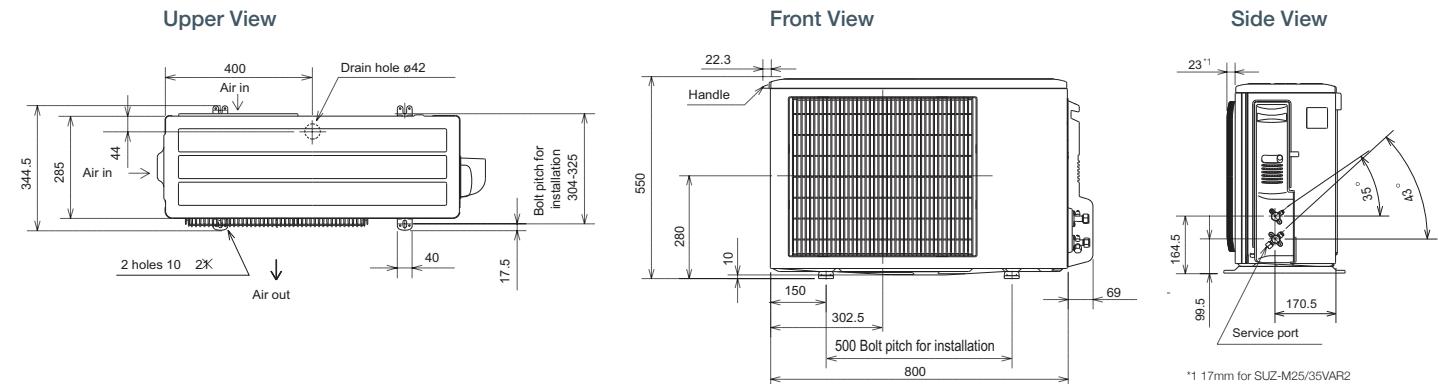
Product Dimensions

MUZ-LN25/35VG2, MUZ-AP20VG, MUZ-AY25/35/42VG, MUZ-HR50VF



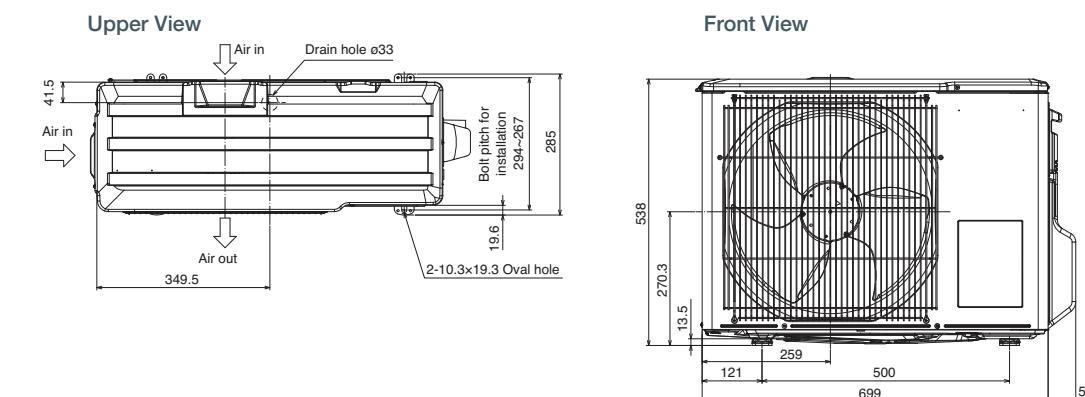
Product Dimensions

MUZ-EF25/35VG, SUZ-M25/35VAR2



Product Dimensions

MUZ-HR25/35VF



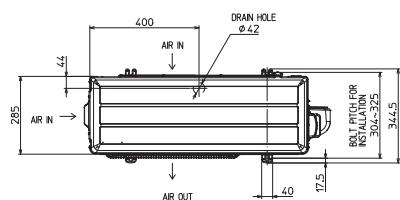
Outdoor Units



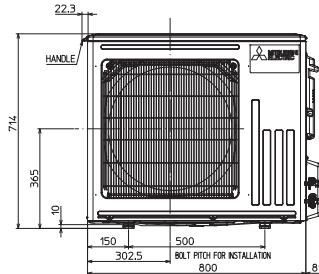
Product Dimensions

MUZ-LN50VG2, MUZ-EF50VG, MUZ-AY50VG, MUZ-AP60VG, MUZ-HR60/71VF, SUZ-M50VAR2

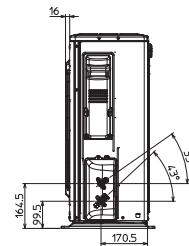
Upper View



Front View



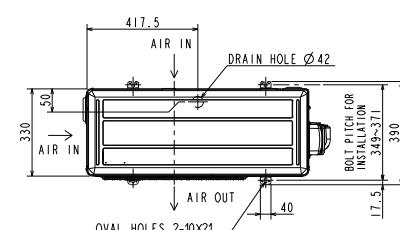
Side View



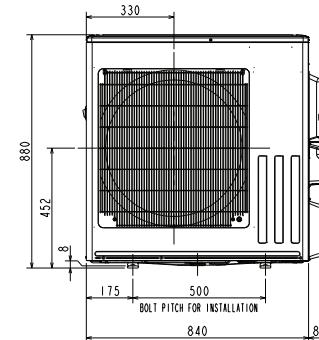
Product Dimensions

MUZ-LN60VG2

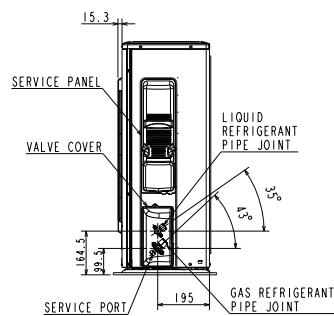
Upper View



Front View



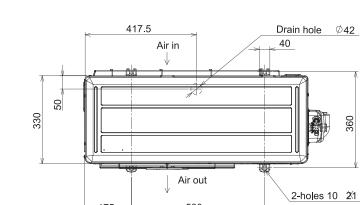
Side View



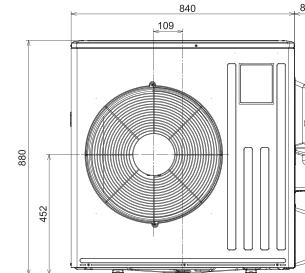
Product Dimensions

MUZ-AP71VG

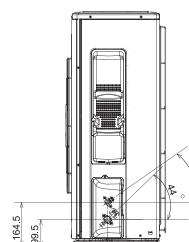
Upper View



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-AP, MSZ-AY, MSZ-HR
MAC-1300RC-E	Natural white remote controller holder for MSZ-LN, MSZ-EF, MSZ-AP, MSZ-AY
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-AP20VG, MUZ-AY25/35/42VG, MUZ-HR50VF, SUZ-M25/35VAR2
MAC-883SG	Air outlet guide for MUZ-HR25/35VF
MAC-882SG	Air outlet guide for MUZ-LN50VG2, MUZ-EF50VG, MUZ-AY50VG, MUZ-AP60VG, MUZ-HR60/71VF, SUZ-M50VAR2
MAC-886SG	Air outlet guide for MUZ-AP71VG
SYSTEM CONTROL UNITS	DESCRIPTION
PAR-41MAA	Standard wired remote controller for MSZ-LN, MSZ-EF, MSZ-AP, MSZ-AY, 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-LN, MSZ-EF, MSZ-AP and MSZ-AY 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



Mr Slim

Packaged Split-System Air Conditioning





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PEAD-M R32 Ceiling Concealed Ducted System, Power Inverter Heat Pump	1.3.22
PEAD-M R32 Ceiling Concealed Ducted System, Standard Inverter Heat Pump	1.3.26
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Packaged Split-System Air Conditioning

The Versatile Mr Slim Range

Suitable to cool or heat a huge variety of applications, such as offices and retail units, our Mr Slim range is one of Britain's best selling air conditioning split-systems. Available utilising lower GWP R32 refrigerant - combine the efficiency with the complete versatility that this range has to offer and the possibilities are virtually infinite.

R32



R32 Power Inverter

- Top of the range Power Inverter technology optimised for high seasonal efficiencies and increased pipe lengths
- Available as single and three phase outdoor units
- 12 sizes available from 3.5-22kW
- Available with four way blow cassettes, ceiling concealed ducted, wall mounted, ceiling suspended or floor standing indoor units



R32 Standard Inverter

- High quality, cost effective Standard Inverter
- Available as single and three phase outdoor units
- 13 sizes available from 2.5-22kW
- Available with four way blow cassettes, ceiling concealed ducted, wall mounted, ceiling suspended or floor standing indoor units



R32 Inverter

- Cost effective
- Available as single and three phase outdoor units
- Available with four way blow cassettes from 7.1-14kW





Packaged Split-System Air Conditioning

Indoor Model	Range	kW	1.5*¹	2.5	3.5	5.0	6.0	7.1	10.0	12.5	14.0	19.0	22.0
4-Way Blow Ceiling Cassette	PLA-ZM/M				●	●	●	●	●	●	●		
	R32												
	PLA-SM							●	●	●	●		
Wall Mounted	SLZ-M (600x600)		●	●	●	●	●						
	R32												
Ceiling Concealed Ducted	PKA-M				●	●	●	●	●	●			
	R32												
Ceiling Suspended	PEAD-M				●	●	●	●	●	●	●		
	R32												
	PEA-M											●	●
Floor Standing	SEZ-M		●	●	●	●	●						
	R32												
	PCA-M					●	●	●	●	●	●	●	
Air Curtain	PCA-M-HA2							●					
	R32												
Air Curtain	PSA-M							●	●	●	●	●	
	R32												
Air Curtain	SFZ-M		●	●	●	●	●						
	R32												
Air Curtain	HP DXE 2.0	*²						●		●	●	●	●
	R32												

*¹ Multi-Split only. *² Available as recessed or exposed versions.

PLA-ZM R32 4-Way Blow Ceiling Cassette System

Power Inverter Heat Pump (Single Phase)



POWER INVERTER

The **PLA-ZM Power Inverter** range is a ceiling cassette system that blends a host of outstanding features with a sophisticated, streamlined design. Offering high seasonal efficiency, advanced control options and extended pipe runs, this range is extremely flexible, and also provides energy monitoring (via PAR-41MAA controller) as standard.

Key Features & Benefits

- Increased comfort levels through advanced airflow and smart defrost features
- 100m pipe run (size 100-140), increasing application capability
- 14°C set point option; ideal for applications where a specialist ambient condition is required (requires PAR-41MAA or PAR-SL101A-E controller)
- Optional 3D Total Airflow casement to allow 360° directional delivery of air (requires PAR-41MAA or PAR-SL101A-E controller)
- Optional 3D i-see sensor grille provides energy efficient, customised comfort by automatically monitoring room occupancy, position and body temperatures (PLP-6EAE)
- Optional filter-lowering operation, down to 4m (PLP-6EAJ)
- Optional black (Satin finish) grille (PLP-6EA-B), for environments that desire a premium quality feel
- Optional V Blocking filter provides in-room air purification, neutralising 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. For more information, please refer to page 1.1.7

R32

PLA-ZM - INDOOR UNITS	PLA-ZM35EA2	PLA-ZM50EA2	PLA-ZM60EA2	PLA-ZM71EA2	PLA-ZM100EA2	PLA-ZM125EA2	PLA-ZM140EA2
CAPACITY (kW)	Heating (nominal) Cooling (nominal)	4.1 (1.6-5.2) 3.6 (1.6-4.5)	6.0 (2.5-7.3) 5.0 (2.3-5.6)	7.0 (2.8-8.2) 6.1 (2.7-6.5)	8.0 (3.5-10.2) 7.1 (3.3-8.1)	11.2 (4.5-14.0) 9.5 (4.9-11.4)	14.0 (5.0-16.0) 12.5 (5.5-14.0)
Heating (UK) Cooling (UK)	3.5 (1.35-4.4) 3.3 (1.45-4.15)	5.1 (2.15-6.2) 4.6 (2.1-5.15)	6.0 (2.38-6.97) 5.6 (2.48-5.98)	6.8 (3.0-8.65) 6.55 (3.05-7.45)	9.5 (3.85-11.9) 9.2 (4.5-10.5)	11.9 (4.25-13.6) 11.5 (5.05-12.9)	13.6 (4.85-15.3) 12.9 (5.7-14.1)
SHF (nominal)	0.95	0.85	0.77	0.72	0.77	0.70	0.70
COP / EER (nominal)	5.00 / 5.10	4.40 / 4.52	4.10 / 4.20	4.40 / 4.30	4.30 / 4.40	3.81 / 3.70	3.71 / 3.55
SCOP (rsh) / SEER (rsc) (BS EN14825)	4.70 / 7.50	4.90 / 7.60	4.60 / 7.20	4.80 / 7.60	4.80 / 7.70	4.70 (185.1%) / 7.40 (303.3%)	4.60 (181.1%) / 7.00 (285.7%)
ERP ENERGY EFFICIENCY CLASS	Heating/Cooling A++ / A++	A++ / A++	A++ / A++	A++ / A++	A++ / A++	-	-
AIRFLOW (l/s)	183-217-250-267	200-233-267-300	200-233-267-300	283-317-350-383	317-367-417-467	350-400-433-483	400-433-483-533
PIPE SIZE MM (in)	Gas/Liquid 12.7 (1/2") / 6.35 (1/4")	12.7 (1/2") / 6.35 (1/4")	15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")
SOUND PRESSURE LEVEL (dBA)	Lo-Mi-Mi2-Hi 26-28-29-31	27-29-31-32	27-29-31-32	28-30-33-36	31-34-37-40	33-36-39-41	36-39-42-44
SOUND POWER LEVEL (dBA)	51	54	54	57	61	62	65
DIMENSIONS (mm)	Width x Depth x Height (Grille)	840 (950) x 840 (950) x 258 (40)	840 (950) x 840 (950) x 258 (40)	840 (950) x 840 (950) x 258 (40)	840 (950) x 840 (950) x 298 (40)	840 (950) x 840 (950) x 298 (40)	840 (950) x 840 (950) x 298 (40)
WEIGHT (kg)	Unit / Grille	21 / 5	21 / 5	21 / 5	24 / 5	26 / 5	26 / 5
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
FUSE RATING (BS88) - HRC (A)	6	6	6	6	6	6	6
INTERCONNECTING CABLE NO. CORES	4	4	4	4	4	4	4
GRILLE REFERENCE	PLP-6EA	PLP-6EA	PLP-6EA	PLP-6EA	PLP-6EA	PLP-6EA	PLP-6EA
WIRED REMOTE CONTROLLER REFERENCE	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA
WIRELESS REMOTE CONTROLLER REFERENCE	PAR-SL101A-E	PAR-SL101A-E	PAR-SL101A-E	PAR-SL101A-E	PAR-SL101A-E	PAR-SL101A-E	PAR-SL101A-E
PUZ-ZM - OUTDOOR UNITS	PUZ-ZM35VKA2	PUZ-ZM50VKA2	PUZ-ZM60VHA2	PUZ-ZM71VHA2	PUZ-ZM100VKA2	PUZ-ZM125VKA2	PUZ-ZM140VKA2
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling 46 / 44	46 / 44	49 / 47	49 / 47	51 / 49	52 / 50	52 / 50
SOUND POWER LEVEL (dBA)	Cooling 65	65	67	67	69	70	70
WEIGHT (kg)	46	46	67	67	105	105	105
DIMENSIONS (mm)	Width x Depth x Height	809 x 300 x 630	809 x 300 x 630	950 x 330 + 25 x 943	950 x 330 + 25 x 943	1050 x 330 + 40 x 1338	1050 x 330 + 40 x 1338
ELECTRICAL SUPPLY	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
PHASE	Single	Single	Single	Single	Single	Single	Single
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal) 0.820 / 0.705	1.363 / 1.106	1.707 / 1.452	1.818 / 1.651	2.604 / 2.065	3.674 / 3.378	4.312 / 3.772
Heating/Cooling (UK)	0.73 / 0.59	1.21 / 0.94	1.43 / 1.15	1.61 / 1.39	2.09 / 1.77	3.27 / 2.87	3.83 / 3.15
STARTING CURRENT (A)	4.3	4.3	5.3	5.3	10.7	13.2	13.2
SYSTEM RUNNING CURRENT (A)	Heating/Cooling [MAX] 3.89 / 3.51 [13.2]	6.05 / 5.00 [13.2]	7.39 / 6.31 [19.2]	7.79 / 7.06 [19.3]	11.25 / 8.97 [27.0]	15.77 / 14.53 [27.0]	18.41 / 15.88 [28.7]
FUSE RATING (BS88) - HRC (A)	16	16	25	25	32	32	40
MAINS CABLE NO. CORES	3	3	3	3	3	3	3
MAX PIPE LENGTH (m)	50	50	55	55	100	100	100
MAX HEIGHT DIFFERENCE (m)	30	30	30	30	30	30	30
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675)	2.00 / 1.35 (30m)	2.00 / 1.35 (30m)	2.80 / 1.89 (30m)	2.80 / 1.89 (30m)	3.60 / 2.43 (40m)	3.60 / 2.43 (40m)
CO ₂ EQUIVALENT (t)	R32 (GWP 675)	0.30 / 0.20	0.30 / 0.20	0.80 / 0.54	0.80 / 0.54	2.40 / 1.62	2.40 / 1.62

Accessories

Indoor Units

PLP-6EA

Grille for PLA-ZM35-140EA2

PLP-6EA-B

Black grille (Satin finish) for PLA-ZM35-140EA2

PLP-6EAE

3D i-see sensor grille for PLA-ZM35-140EA2

PLP-6EAJ

Self elevating grille for PLA-ZM35-140EA2

PAC-SE1ME-E

Corner panel with i-see sensor for PLA-ZM35-140EA2

PAR-SE9FA-E

Corner panel with signal receiver for PLA-ZM35-140EA2

PAC-SJ37SP-E

Shutter plate for PLA-ZM35-140EA2

PAC-SJ41TM-E

Multi-function casement for PLA-ZM35-140EA2

PLP-U160ELR-E

3D Total Airflow casement for PLA-ZM35-140EA2

PAC-SK36HK-E

Insulation kit (14°C cooling) for PLA-ZM35-140EA2

PAC-SJ39HR-E

Power supply kit for PLA-ZM35-140EA2

PAR-SL101A-E

Wireless remote controller for PLA-ZM35-140EA2

PAC-SH59KF-E

High efficiency filter for PLA-ZM35-140EA2

PAC-SK53KF-E

V Blocking air purifying filter for PLA-ZM35-140EA2

PAC-SK51FT-E

Plasma Quad Connect air purifying device for PLA-ZM35-140EA2

Outdoor Units

PAC-SJ07SG

Air outlet guide for PUZ-ZM35-50VKA2

PAC-SG59SG

Air outlet guide for PUZ-ZM60-71VHA2

PAC-SH96SG

Air outlet guide for PUZ-ZM100-140VKA2

PAC-SJ71FM-E

30Pa outdoor fan motor for PUZ-ZM100-140VKA2

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE41TS-E

Remote sensor

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB=Premium Finish)

PAR-41MAA

Standard wired remote controller

MAC-587IF-E

Interface for connection to Wi-Fi MELCloud service

MELCOBEMS MINI (A1M+)

Modbus and Bacnet MSTP CN105 adaptor

MELCORETAIL MINI

Retail control and input / output interface

PAC-SK15MA-E

M-NET adaptor for size 35 and 50

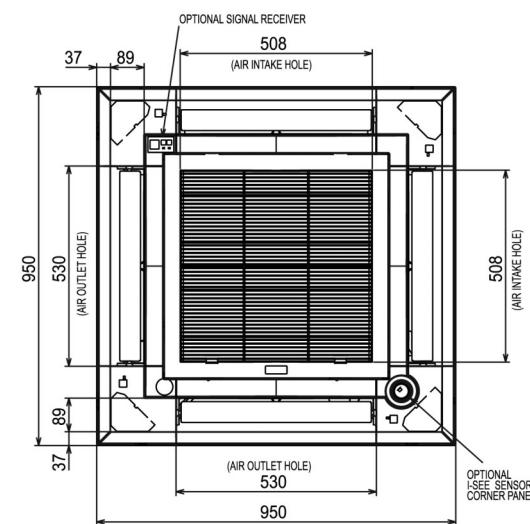
PAC-SJ95MA

M-NET adaptor for size 60 to 140

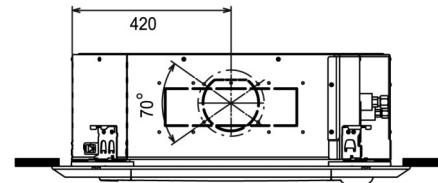
Product Dimensions

PLA-ZM35/50/60/71/100/125/140EA2

Lower View



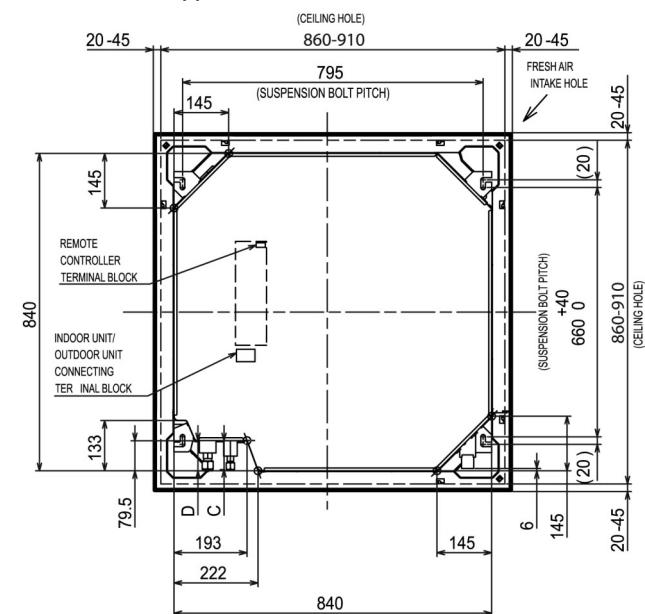
Front View



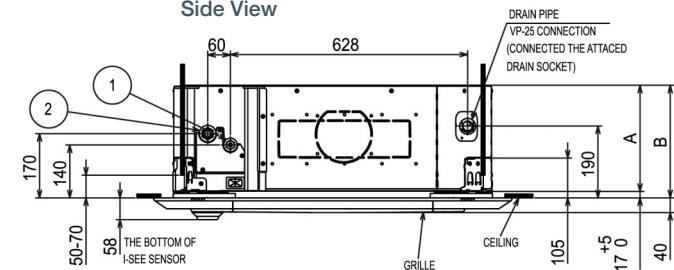
PLA-ZM-EA*:35/50/60/71/100/125/140

ZM	(1)	(2)	A	B	C	D
35/50	REFRIGERANT PIPE Ø 6.35 FLARED CONNECTION 1/4F	REFRIGERANT PIPE Ø 12.7 FLARED CONNECTION 1/2F	241	258	76	76.5
60	FLARED CONNECTION 3/8F REFRIGERANT PIPE Ø 9.52	REFRIGERANT PIPE Ø 15.88 FLARED CONNECTION 5/8F	281	298	79.5	79.5
71						
100-140						

Upper View



Side View



Note: Please see page 1.3.66 for the full range of accessories.

PLA-ZM R32 4-Way Blow Ceiling Cassette System

Power Inverter Heat Pump (Three Phase)



The **PLA-ZM Power Inverter** range is a ceiling cassette system that blends a host of outstanding features with a sophisticated, streamlined design. Offering high seasonal efficiency, advanced control options and extended pipe runs, this range is extremely flexible, and also provides energy monitoring (via PAR-41MAA controller) as standard.

Key Features & Benefits

- Increased comfort levels through advanced airflow and smart defrost features
- 100m pipe run (size 100-140), increasing application capability
- 14°C set point option; ideal for applications where a specialist ambient condition is required (requires PAR-41MAA or PAR-SL101A-E controller)
- Optional 3D Total Airflow casement to allow 360° directional delivery of air (requires PAR-41MAA or PAR-SL101A-E controller)
- Optional 3D i-see sensor grille provides energy efficient, customised comfort by automatically monitoring room occupancy, position and body temperatures (PLP-6EAE)
- Optional filter-lowering operation, down to 4m (PLP-6EAJ)
- Optional black (Satin finish) grille (PLP-6EA-B), for environments that desire a premium quality feel
- Optional V Blocking filter provides in-room air purification, neutralising 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. For more information, please refer to page 1.1.7



PLA-ZM - INDOOR UNITS	PLA-ZM100EA2	PLA-ZM125EA2	PLA-ZM140EA2	
CAPACITY (kW)	Heating (nominal) Cooling (nominal) Heating (UK) Cooling (UK)	11.2 (4.5-14.0) 9.5 (4.9-11.4) 9.5 (3.85-11.9) 9.2 (4.5-10.5)	14.0 (5.0-16.0) 12.5 (5.5-14.0) 11.9 (4.25-13.6) 11.5 (5.05-12.9)	16.0 (5.7-18.0) 13.4 (6.2-15.0) 13.6 (4.85-15.3) 12.9 (5.7-14.1)
SHF (nominal)	0.77	0.70	0.70	
COP / EER (nominal)	4.30 / 4.40	3.81 / 3.70	3.71 / 3.55	
SCOP (ηsh) / SEER (ηsc) (BS EN14825)	4.80 / 7.50	4.70 (185.1%) / 7.20 (301.1%)	4.60 (181.1%) / 6.90 (283.9%)	
ERP ENERGY EFFICIENCY CLASS	Heating/Cooling A++ / A++	-	-	
AIRFLOW (l/s)	Lo-Mi-Mi2-Hi 317-367-417-467	350-400-433-483	400-433-483-533	
PIPE SIZE MM (in)	Gas/Liquid 15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")	
SOUND PRESSURE LEVEL (dBA)	Lo-Mi-Mi2-Hi 31-34-37-40	33-36-39-41	36-39-42-44	
SOUND POWER LEVEL (dBA)	61	62	65	
DIMENSIONS (mm)	Width x Depth x Height (Grille) 840 (950) x 840 (950) x 298 (40)	840 (950) x 840 (950) x 298 (40)	840 (950) x 840 (950) x 298 (40)	
WEIGHT (kg)	Unit / Grille 26 / 5	26 / 5	26 / 5	
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	
GRILLE REFERENCE	PLP-6EA	PLP-6EA	PLP-6EA	
WIRED REMOTE CONTROLLER REFERENCE	PAR-41MAA	PAR-41MAA	PAR-41MAA	
WIRELESS REMOTE CONTROLLER REFERENCE	PAR-SL101A-E	PAR-SL101A-E	PAR-SL101A-E	
PUZ-ZM - OUTDOOR UNITS	PUZ-ZM100YKA2	PUZ-ZM125YKA2	PUZ-ZM140YKA2	
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling 51 / 49	52 / 50	52 / 50	
SOUND POWER LEVEL (dBA)	Cooling 69	70	70	
WEIGHT (kg)	111	114	118	
DIMENSIONS (mm)	Width x Depth x Height 1050 x 330 + 40 x 1338	1050 x 330 + 40 x 1338	1050 x 330 + 40 x 1338	
ELECTRICAL SUPPLY	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	
PHASE	Three	Three	Three	
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal) 2.604 / 2.065	3.674 / 3.378	4.312 / 3.772	
	Heating/Cooling (UK) 2.09 / 1.77	3.27 / 2.87	3.83 / 3.15	
STARTING CURRENT (A)	2.6	3.3	3.3	
SYSTEM RUNNING CURRENT (A)	Heating/Cooling [MAX] 3.75 / 2.96 [8.5]	5.32 / 4.89 [10.0]	6.23 / 5.37 [13.7]	
FUSE RATING (BS88) - HRC (A)	16	16	16	
MAINS CABLE NO. CORES	5	5	5	
MAX PIPE LENGTH (m)	100	100	100	
MAX HEIGHT DIFFERENCE (m)	30	30	30	
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675) - 40m 3.60 / 2.43	3.60 / 2.43	3.60 / 2.43	
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675) 2.40 / 1.62	2.40 / 1.62	2.40 / 1.62	

③ Three Phase

Accessories

Indoor Units

PLP-6EA
Grille for PLA-ZM100-140EA2

PLP-6EA-B
Black grille (Satin finish) for PLA-ZM100-140EA2

PLP-6EAE
3D i-see sensor grille for PLA-ZM100-140EA2

PLP-6EAJ
Self elevating grille for PLA-ZM100-140EA2

PAC-SE1ME-E
Corner panel with i-see sensor for PLA-ZM100-140EA2

PAR-SE9FA-E
Corner panel with signal receiver for PLA-ZM100-140EA2

PAC-SJ37SP-E
Shutter plate for PLA-ZM100-140EA2

PAC-SJ41TM-E
Multi-function casement for PLA-ZM100-140EA2

PLP-U160ELR-E
3D Total Airflow casement for PLA-ZM100-140EA2

PAC-SK36HK-E
Insulation kit (14°C cooling) for PLA-ZM100-140EA2

PAC-SJ39HR-E
Power supply kit for PLA-ZM100-140EA2

PAR-SL101A-E
Wireless remote controller for PLA-ZM100-140EA2

PAC-SH59KF-E
High efficiency filter for PLA-ZM100-140EA2

PAC-SK53KF-E
V Blocking air purifying filter for PLA-ZM100-140EA2

PAC-SK51FT-E
Plasma Quad Connect air purifying device for PLA-ZM100-140EA2

Outdoor Units

PAC-SH96SG

Air outlet guide for PUZ-ZM100-140YKA2

PAC-SJ71FM-E

30Pa outdoor fan motor for PUZ-ZM100-140YKA2

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE41TS-E

Remote sensor

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB=Premium Finish)

PAR-41MAA

Standard wired remote controller

MAC-587IF-E

Interface for connection to Wi-Fi MELCloud service

MELCOBEMS MINI (A1M+)

Retail control and input / output interface

MELCORETAIL MINI

Retail control and input / output interface

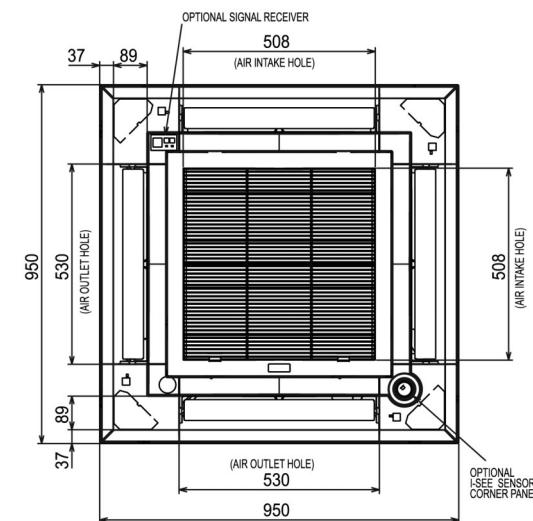
PAC-SJ95MA

M-NET adaptor for size 100 to 140

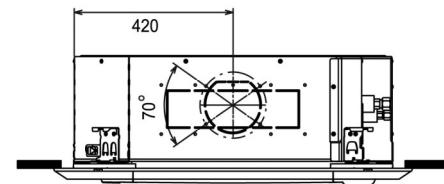
Product Dimensions

PLA-ZM100/125/140EA2

Lower View



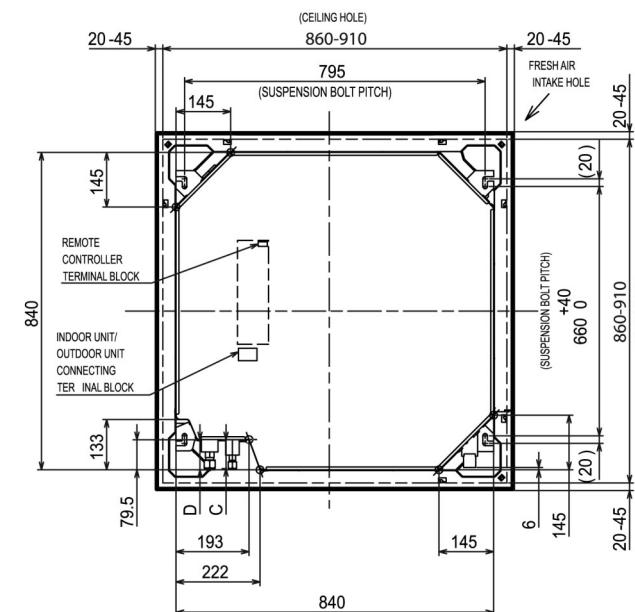
Front View



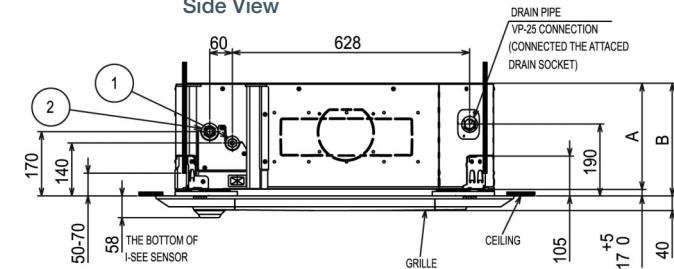
PLA-ZM-EA:100/125/140

ZM	①	②	A	B	C	D
100-140	FLARED CONNECTION 3/8F REFRIGERANT PIPE Ø 9.52	REFRIGERANT PIPE Ø 15.88 FLARED CONNECTION 5/8F	281	298	79.5	79.5

Upper View



Side View



Note: Please see page 1.3.66 for the full range of accessories.

PLA-M R32

4-Way Blow Ceiling Cassette System

Standard Inverter Heat Pump (Single Phase)



The cost effective **PLA-M Standard Inverter** range is a ceiling cassette system that blends a host of outstanding features with a sophisticated, streamlined design. Offering advanced control options and quiet operation, this range provides extreme flexibility and ease of installation, alongside energy monitoring (via PAR-41MAA controller) as standard.

Key Features & Benefits

- Increased comfort levels through advanced airflow and smart defrost features (size 100-140)
- 14°C set point option; ideal for applications where a specialist ambient condition is required (size 100-140; requires PAR-41MAA or PAR-SL101A-E controller)
- Optional 3D Total Airflow casement to allow 360° directional delivery of air (size 100-140; requires PAR-41MAA or PAR-SL101A-E controller)
- Optional 3D i-see sensor grille provides energy efficient, customised comfort by automatically monitoring room occupancy, position and body temperatures (PLP-6EAE)
- Optional filter-lowering operation, down to 4m (PLP-6EAJ)
- Optional black (Satin finish) grille (PLP-6EA-B), for environments that desire a premium quality feel
- Optional V Blocking filter provides in-room air purification, neutralising 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. For more information, please refer to page 1.1.7

R32

PLA-M - INDOOR UNITS	PLA-M35EA2	PLA-M50EA2	PLA-M60EA2	PLA-M71EA2	PLA-M100EA2	PLA-M125EA2	PLA-M140EA2	
CAPACITY (kW)								
Heating (nominal)	4.1 (1.0-5.0)	6.0 (1.5-7.2)	7.0 (1.6-8.0)	8.0 (2.0-10.2)	11.2 (2.8-12.5)	13.5 (4.1-15.0)	15.0 (4.2-15.8)	
Cooling (nominal)	3.6 (0.8-3.9)	5.5 (1.2-5.6)	6.1 (1.6-6.3)	7.1 (2.2-8.1)	9.5 (4.0-10.6)	12.1 (5.8-13.0)	13.4 (5.8-14.1)	
Heating (UK)	3.49 (0.85-4.26)	5.11 (1.28-6.13)	6.13 (1.36-6.81)	6.81 (1.70-8.68)	9.63 (2.41-10.75)	11.49 (3.49-12.77)	12.77 (3.57-13.45)	
Cooling (UK)	3.31 (0.74-3.60)	5.06 (1.10-5.15)	5.61 (1.47-5.80)	6.53 (2.02-7.45)	8.65 (3.64-9.65)	11.01 (5.28-11.83)	12.19 (5.28-12.83)	
SHF (nominal)	0.91	0.77	0.79	0.74	0.77	0.72	0.70	
COP / EER (nominal)	4.20 / 4.00	3.46 / 3.40	3.80 / 3.30	3.61 / 3.70	3.71 / 3.50	3.71 / 3.01	3.41 / 2.70	
SCOP (ηsh) / SEER (ηsc) (BS EN14825)	4.70 / 7.40	4.10 / 6.70	4.40 / 6.60	4.50 / 7.50	4.60 / 7.00	4.1 (162%) / 5.6 (231.9%)	4.1 (161.3%) / 5.7 (232.7%)	
ErP ENERGY EFFICIENCY CLASS	Heating/Cooling	A++ / A++	A+ / A++	A+ / A++	A++ / A++	A++ / A+	A+ / A+	
AIRFLOW (l/s)	Lo-Mi-Mi2-Hi	183-217-250-267	200-233-317-350	200-233-317-350	233-283-317-350	317-383-433-483	350-417-467-517	400-433-483-533
PIPE SIZE mm (in)	Gas/Liquid	9.52 (3/8") / 6.35 (1/4")	12.7 (1/2") / 6.35 (1/4")	15.88 (5/8") / 6.35 (1/4")	15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")
SOUND PRESSURE LEVEL (dBA)	Lo-Mi-Mi2-Hi	26-28-29-31	27-29-31-32	27-29-31-32	28-30-32-34	31-34-37-40	33-37-41-44	36-39-42-44
SOUND POWER LEVEL (dBA)		51	54	54	56	61	65	65
DIMENSIONS (mm)	Width x Depth x Height (Grille)	840 (950) x 840 (950) x 258 (40)	840 (950) x 840 (950) x 258 (40)	840 (950) x 840 (950) x 258 (40)	840 (950) x 840 (950) x 258 (40)	840 (950) x 840 (950) x 298 (40)	840 (950) x 840 (950) x 298 (40)	840 (950) x 840 (950) x 298 (40)
WEIGHT (kg)	Unit / Panel	19 / 5	19 / 5	21 / 5	21 / 5	24 / 5	26 / 5	26 / 5
ELECTRICAL SUPPLY		Fed by Outdoor Unit						
FUSE RATING (BS88) - HRC (A)		6	6	6	6	6	6	
INTERCONNECTING CABLE No. Cores		4	4	4	4	4	4	
GRILLE REFERENCE	PLP-6EA	PLP-6EA	PLP-6EA	PLP-6EA	PLP-6EA	PLP-6EA	PLP-6EA	
WIRED REMOTE CONTROLLER REFERENCE	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	
WIRELESS REMOTE CONTROLLER REFERENCE	PAR-SL101A-E	PAR-SL101A-E	PAR-SL101A-E	PAR-SL101A-E	PAR-SL101A-E	PAR-SL101A-E	PAR-SL101A-E	
SUZ-M / PUZ-M - OUTDOOR UNITS	SUZ-M35VAR2	SUZ-M50VAR2	SUZ-M60VAR2	SUZ-M71VAR1	PUZ-M100VKA2	PUZ-M125VKA2	PUZ-M140VKA2	
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	48 / 48	48 / 49	49 / 51	49 / 51	51 / 54	54 / 56	55 / 57
SOUND POWER LEVEL (dBA)	Cooling	59	64	65	66	70	72	73
WEIGHT (kg)		35	41	54	55	76	84	84
DIMENSIONS (mm)	Width x Depth x Height	800 x 285 x 550	800 x 285 x 714	840 x 330 x 880	840 x 330 x 880	1050 x 330 x 981	1050 x 330 x 981	1050 x 330 x 981
ELECTRICAL SUPPLY		220-240v, 50Hz						
PHASE		Single						
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal)	0.97 / 0.90	1.73 / 1.61	1.84 / 1.84	2.21 / 1.91	3.01 / 2.71	3.63 / 4.01	4.39 / 4.96
	Heating/Cooling (UK)	0.83 / 0.77	1.47 / 1.39	1.56 / 1.58	1.88 / 1.64	2.71 / 2.50	3.27 / 3.33	3.59 / 4.12
STARTING CURRENT (A)		5.0	5.7	7.6	10.0	7.1	2.9	2.9
SYSTEM RUNNING CURRENT (A)	Heating/Cooling [MAX]	5.0 / 4.1 [8.5]	8.0 / 7.1 [13.5]	9.3 / 8.4 [14.8]	9.5 / 9.1 [14.8]	13.0 / 11.7 [20]	15.6 / 17.4 [26.5]	19.0 / 21.5 [30]
FUSE RATING (BS88) - HRC (A)		10	20	20	20	32	32	40
MAINS CABLE No. Cores		3	3	3	3	3	3	3
MAX PIPE LENGTH (m)		20	30	30	30	55	65	65
MAX HEIGHT DIFFERENCE (m)		12	30	30	30	30	30	30
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675)	0.90 / 0.61 (7m)	1.20 / 0.81 (7m)	1.25 / 0.84 (7m)	1.45 / 0.98 (7m)	3.10 / 2.09 (30m)	3.60 / 2.43 (30m)	3.60 / 2.43 (30m)
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675)	1.16 / 0.78	1.66 / 1.12	1.71 / 1.15	2.37 / 1.80	4.10 / 2.77	5.00 / 3.38	5.00 / 3.38

Note: No duty/standby operation on SUZ-M35/50/60/71VAR2/1.

Accessories

Indoor Units

- PLP-6EA**
Grille for PLA-M35-140EA2
- PLP-6EA-B**
Black grille (Satin finish) for PLA-M35-140EA2
- PLP-6EAE**
3D i-see sensor grille for PLA-M35-140EA2
- PLP-6EAJ**
Self elevating grille for PLA-M35-140EA2
- PAC-SE1ME-E**
Corner panel with i-see sensor for PLA-M35-140EA2
- PAR-SE9FA-E**
Corner panel with signal receiver for PLA-M35-140EA2
- PAC-SJ37SP-E**
Shutter plate for PLA-M35-140EA2
- PAC-SJ41TM-E**
Multi-function casement for PLA-M35-140EA2
- PLP-U160ELR-E**
3D Total airflow casement for PLA-M100-140EA2
- PAC-SK36HK-E**
Insulation kit (14°C cooling) for PLA-M100-140EA2
- PAC-SJ39HR-E**
Power supply kit for PLA-M35-140EA2
- PAR-SL101A-E**
Wireless remote controller for PLA-M35-140EA2
- PAC-SH59KF-E**
High efficiency filter for PLA-M35-140EA2
- PAC-SK53KF-E**
V Blocking air purifying filter for PLA-M35-140EA2
- PAC-SK51FT-E**
Plasma Quad Connect air purifying device for PLA-M35-140EA2

Outdoor Units

- MAC-881SG**
Air outlet guide for SUZ-M35VAR2
- MAC-882SG**
Air outlet guide for SUZ-M50VAR2
- MAC-886SG**
Air outlet guide for SUZ-M60VAR2 / SUZ-M71VAR1
- PAC-SH96SG**
Air outlet guide for PUZ-M100-140VKA2

System Control Units

- PAC-SA89TA**
Remote on/off adaptor (3 wire adaptor)
- PAC-SA88HA**
Run/fault adaptor (5 wire adaptor)
- PAC-SE41TS-E**
Remote sensor
- PAR-CT01MAA-SB/PB**
Touch screen wired remote controller (PB=Premium Finish)

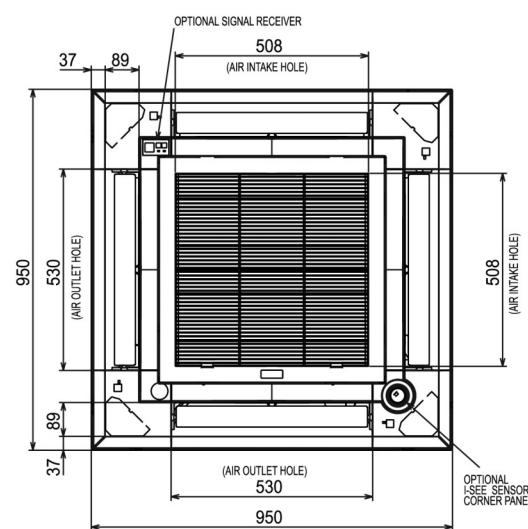
- PAR-41MAA**
Standard wired remote controller
- MAC-334IF-E**
Interface for M-NET, MA remote controller, on/off input and run/fault output
- MAC-497IF-E**
Interface for MA remote controller
- MAC-587IF-E**
Interface for connection to Wi-Fi MELCloud service
- MELCOBEMS MINI (A1M+)**
Modbus and BACnet MSTP CN105 adaptor
- MELCORETAIL MINI**
Retail control and input / output interface
- PAC-SJ95MA**
M-NET adaptor for size 100 to 140

Note: Please see page 1.3.66 for the full range of accessories.

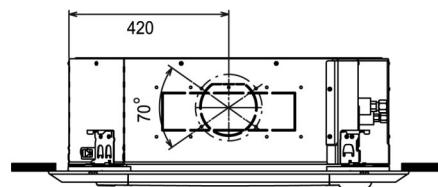
Product Dimensions

PLA-M35/50/60/71/100/125/140EA2

Lower View



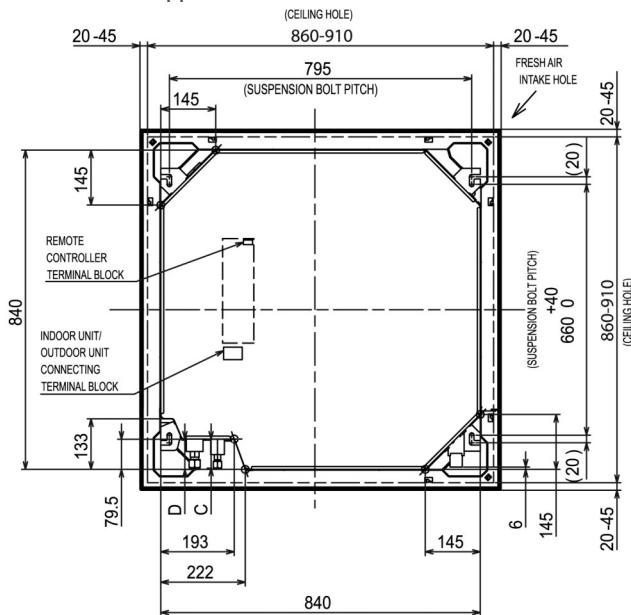
Front View



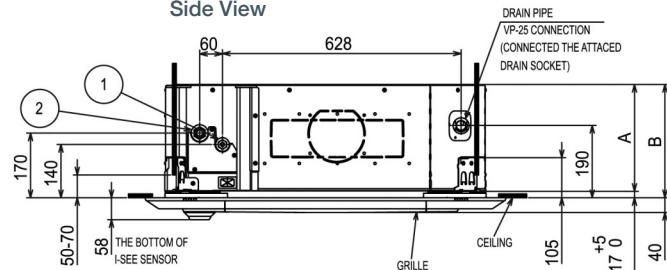
PLA-M.EA*:35/50/60/71/100/125/140

M	①	②	A	B	C	D
35/50	REFRIGERANT PIPE Ø 6.35 FLARED CONNECTION 1/4F	REFRIGERANT PIPE Ø 12.7 FLARED CONNECTION 1/2F		76	76.5	
60	REFRIGERANT PIPE Ø 6.35 / Ø 9.52 FLARED CONNECTION 1/4F / 3/8F (COMPATIBLE)		241	258	80.5	
71		REFRIGERANT PIPE Ø 15.88 FLARED CONNECTION 5/8F			79.5	
100-140	REFRIGERANT PIPE Ø 9.52 FLARED CONNECTION 3/8F		281	298		

Upper View



Side View



PLA-M R32 4-Way Blow Ceiling Cassette System

Standard Inverter Heat Pump (Three Phase)



The cost effective **PLA-M Standard Inverter** range is a ceiling cassette system that blends a host of outstanding features with a sophisticated, streamlined design. Offering advanced control options and quiet operation, this range provides extreme flexibility and ease of installation, alongside energy monitoring (via PAR-41MAA controller) as standard.

Key Features & Benefits

- Increased comfort levels through advanced airflow and smart defrost features (size 100-140)
- 14°C set point option; ideal for applications where a specialist ambient condition is required (size 100-140; requires PAR-41MAA or PAR-SL101A-E controller)
- Optional 3D Total Airflow casement to allow 360° directional delivery of air (size 100-140; requires PAR-41MAA or PAR-SL101A-E controller)
- Optional 3D i-see sensor grille provides energy efficient, customised comfort by automatically monitoring room occupancy, position and body temperatures (PLP-6EAE)
- Optional filter-lowering operation, down to 4m (PLP-6EAJ)
- Optional black (Satin finish) grille (PLP-6EA-B), for environments that desire a premium quality feel
- Optional V Blocking filter provides in-room air purification, neutralising 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. For more information, please refer to page 1.1.7

R32

PLA-M - INDOOR UNITS	PLA-M100EA2	PLA-M125EA2	PLA-M140EA2	
CAPACITY (kW)	Heating (nominal) Cooling (nominal) Heating (UK) Cooling (UK)	11.2 (2.8-12.5) 9.5 (4.0-10.6) 9.63 (2.41-10.75) 8.65 (3.64-9.65)	13.5 (4.1-15.0) 12.1 (5.8-13.0) 11.49 (3.49-12.77) 11.01 (5.28-11.83)	15.0 (4.2-15.8) 13.4 (5.8-14.1) 12.77 (3.57-13.45) 12.19 (5.28-12.83)
SHF (nominal)	0.77	0.72	0.70	
COP / EER (nominal)	3.71 / 3.50	3.71 / 3.01	3.41 / 2.70	
SCOP (nsh) / SEER (nsc) (BS EN14825)	4.60 / 7.00	4.1 (162%) / 5.6 (231.9%)	4.1 (161.3%) / 5.7 (232.7%)	
ErP ENERGY EFFICIENCY CLASS	Heating/Cooling A++ / A++	A+ / A+	A+ / A+	
AIRFLOW (l/s)	Lo-Mi-Mi2-Hi 317-383-433-483	350-417-467-517	400-433-483-533	
PIPE SIZE mm (in)	Gas/Liquid 15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")	
SOUND PRESSURE LEVEL (dBA)	Lo-Mi-Mi2-Hi 31-34-37-40	33-37-41-44	36-39-42-44	
SOUND POWER LEVEL (dBA)	61	65	65	
DIMENSIONS (mm)	Width x Depth x Height (Grille) 840 (950) x 840 (950) x 298 (40)	840 (950) x 840 (950) x 298 (40)	840 (950) x 840 (950) x 298 (40)	
WEIGHT (kg)	Unit / Panel 24 / 5	26 / 5	26 / 5	
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	
GRILLE REFERENCE	PLP-6EA	PLP-6EA	PLP-6EA	
WIRED REMOTE CONTROLLER REFERENCE	PAR-41MAA	PAR-41MAA	PAR-41MAA	
WIRELESS REMOTE CONTROLLER REFERENCE	PAR-SL101A-E	PAR-SL101A-E	PAR-SL101A-E	
PUZ-M - OUTDOOR UNITS	PUZ-M100YKA2 ^③	PUZ-M125YKA2 ^③	PUZ-M140YKA2 ^③	
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling 51 / 54	54 / 56	55 / 57	
SOUND POWER LEVEL (dBA)	Cooling 70	72	73	
WEIGHT (kg)	78	85	85	
DIMENSIONS (mm)	Width x Depth x Height 1050 x 330 x 981	1050 x 330 x 981	1050 x 330 x 981	
ELECTRICAL SUPPLY	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	
PHASE	Three	Three	Three	
SYSTEM POWER	Heating/Cooling (nominal) 3.01 / 2.71	3.63 / 4.01	4.39 / 4.96	
INPUT (kW)	Heating/Cooling (UK) 2.71 / 2.50	3.27 / 3.33	3.59 / 4.12	
STARTING CURRENT (A)	3.5	4.9	4.9	
SYSTEM RUNNING CURRENT (A)	Heating/Cooling [MAX] 4.7 / 4.2 [11.5]	5.6 / 6.3 [11.5]	6.9 / 7.8 [11.5]	
FUSE RATING (BS88) - HRC (A)	16	16	16	
MAINS CABLE No. Cores	5	5	5	
MAX PIPE LENGTH (m)	55	65	65	
MAX HEIGHT DIFFERENCE (m)	30	30	30	
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675) - 30m 3.10 / 2.09	3.60 / 2.43	3.60 / 2.43	
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675) 4.10 / 2.77	5.00 / 3.38	5.00 / 3.38	

^③ Three Phase

Accessories

Indoor Units

- | | |
|----------------------|--|
| PLP-6EA | Grille for PLA-M100-140EA2 |
| PLP-6EA-B | Black grille (Satin finish) for PLA-M100-140EA2 |
| PLP-6EAE | 3D i-see sensor grille for PLA-M100-140EA2 |
| PLP-6EAJ | Self elevating grille for PLA-M100-140EA2 |
| PAC-SE1ME-E | Corner panel with i-see sensor for PLA-M100-140EA2 |
| PAR-SE9FA-E | Corner panel with signal receiver for PLA-M100-140EA2 |
| PAC-SJ37SP-E | Shutter plate for PLA-M100-140EA2 |
| PAC-SJ41TM-E | Multi-function casement for PLA-M100-140EA2 |
| PLP-U160ELR-E | 3D Total Airflow casement for PLA-M100-140EA2 |
| PAC-SK36HK-E | Insulation kit (14°C cooling) for PLA-M100-140EA2 |
| PAC-SJ39HR-E | Power supply kit for PLA-M100-140EA2 |
| PAR-SL101A-E | Wireless remote controller for PLA-M100-140EA2 |
| PAC-SH59KF-E | High efficiency filter for PLA-M100-140EA2 |
| PAC-SK53KF-E | V Blocking air purifying filter for PLA-M100-140EA2 |
| PAC-SK51FT-E | Plasma Quad Connect air purifying device for PLA-M100-140EA2 |

Outdoor Units

- PAC-SH96SG
Air outlet guide for PUZ-M100-140YKA2

System Control Units

- PAC-SA89TA**
Remote on/off adaptor (3 wire adaptor)
 - PAC-SA88HA**
Run/fault adaptor (5 wire adaptor)
 - PAC-SE41TS-E**
Remote sensor
 - PAR-CT01MAA-SB/PB**
Touch screen wired remote controller (PB-Premium Finish)

PAR-41MAA

- Standard wired remote controller

MAC-587IF-E

- Interface for connection to Wi-Fi MELCloud service

MELCOBEMS

- Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

- Retail control and input / output interf

PAC-SJ95MA

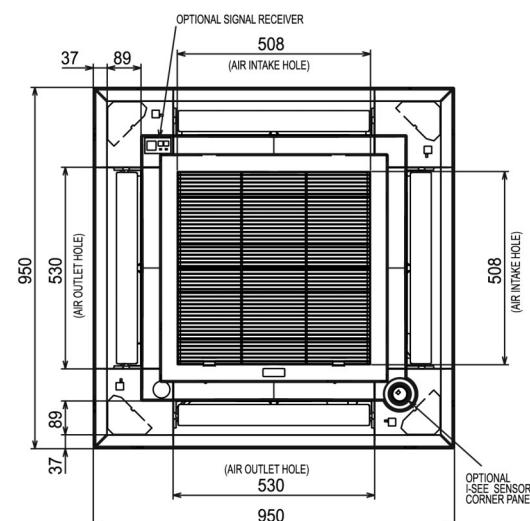
- M-NET adaptor for size 100 to 140

Note: Please see page 1.3.66 for the full range of accessories

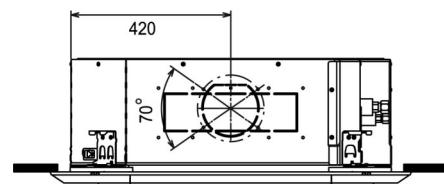
Product Dimensions

PLA-M100/125/140EA2

Lower View



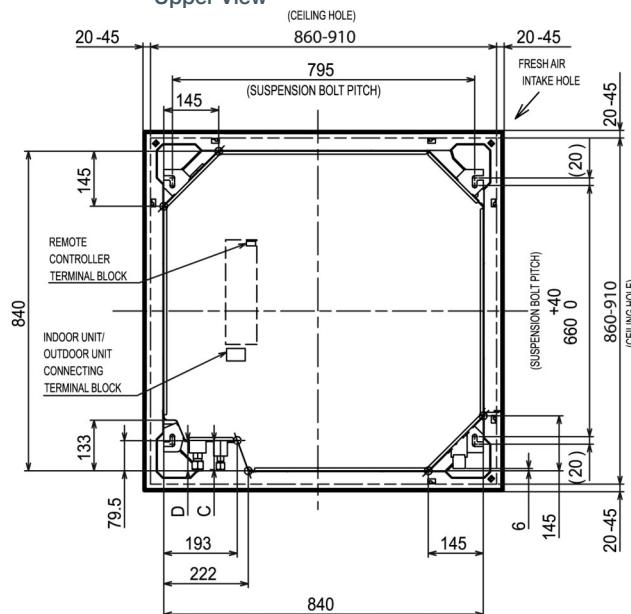
Front View



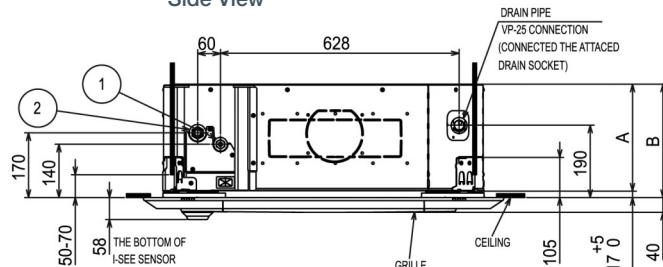
PLA-M.EA*:100/125/140

M	①	②	A	B	C	D
100-140	REFRIGERANT PIPE Φ 9.52 FLARED CONNECTION 3/8F	REFRIGERANT PIPE Φ 15.88 FLARED CONNECTION 5/8F	281	298	79.5	79.5

Upper View



Side View



PLA-SM R32 4-Way Blow Ceiling Cassette System

Inverter Heat Pump



The **PLA-SM Inverter** cassette range offers customers all the features and benefits of inverter technology, whilst being very cost effective. Available as a single combination only, this range offers advanced control options, extremely flexible installation and a sophisticated, streamlined design.

Key Features & Benefits

- Increased comfort levels through advanced airflow
- PAR-41MAA controller allows effective energy consumption monitoring
- Optional filter-lowering operation, down to 4m (PLP-6EAJ)
- Optional black (Satin finish) grille (PLP-6EA-B), for environments that desire a premium quality feel
- Small footprint, single fan chassis across entire outdoor unit range
- Optional V Blocking filter provides in-room air purification, neutralising 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. For more information, please refer to page 1.1.7

R32

PLA-SM INDOOR UNITS	PLA-SM71EA	PLA-SM100EA	PLA-SM100EA	PLA-SM125EA	PLA-SM125EA	PLA-SM140EA	PLA-SM140EA
CAPACITY (kW)	Heating (nominal) 8.0 (2.2-8.1)	11.2 (2.8-12.5)	11.2 (2.8-12.5)	13.5 (4.1-15.0)	13.5 (4.1-15.0)	15.0 (4.2-15.8)	15.0 (4.2-15.8)
	Cooling (nominal) 7.1 (2.2-8.1)	9.5 (4.0-10.6)	9.5 (4.0-10.6)	12.1 (5.8-13.0)	12.1 (5.8-13.0)	13.4 (5.8-14.1)	13.4 (5.8-14.1)
	Heating (UK) 6.80 (1.87-6.89)	9.63 (2.41-10.75)	9.63 (2.41-10.75)	11.61 (3.53-12.90)	11.61 (3.53-12.90)	12.90 (3.61-13.59)	12.90 (3.61-13.59)
	Cooling (UK) 6.53 (2.03-7.45)	8.55 (3.60-11.25)	8.55 (3.60-11.25)	10.89 (5.22-11.70)	10.89 (5.22-11.70)	11.61 (5.22-12.69)	11.61 (5.22-12.69)
SHF (nominal)	0.75	0.77	0.77	0.73	0.73	0.70	0.70
COP / EER (nominal)	3.50 / 3.60	3.61 / 3.40	3.61 / 3.40	3.61 / 2.90	3.61 / 2.90	3.30 / 2.61	3.30 / 2.61
SCOP (nsh) / SEER (nsc) (BS EN14825)	3.90 / 6.00	4.50 / 6.00	4.50 / 6.00	3.9 (154.1%) / 5.5 (225.2%)	3.9 (154.1%) / 5.5 (225.2%)	3.9 (153.3%) / 5.5 (224.9%)	3.9 (153.3%) / 5.5 (224.9%)
ErP ENERGY EFFICIENCY CLASS Heating/Cooling	A / A+	A+ / A+	A+ / A+	A / A	A / A	A / A	A / A
AIRFLOW (l/s)	Lo-M1-M2-Hi 233-283-317-350	317-383-433-483	317-383-433-483	350-417-467-517	350-417-467-517	400-433-483-533	400-433-483-533
PIPE SIZE mm (in)	Gas/Liquid 15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")
SOUND PRESSURE LEVEL (dBA) Lo-M1-M2-Hi	28-30-32-34	31-34-37-40	31-34-37-40	33-37-41-44	33-37-41-44	36-39-42-44	36-39-42-44
SOUND POWER LEVEL (dBA)	56	61	61	65	65	65	65
DIMENSIONS (mm)	Width x Depth x Height (Grille) 840 (950) x 840 (950) x 258 (40)	840 (950) x 840 (950) x 298 (40)	840 (950) x 840 (950) x 298 (40)	840 (950) x 840 (950) x 298 (40)	840 (950) x 840 (950) x 298 (40)	840 (950) x 840 (950) x 298 (40)	840 (950) x 840 (950) x 298 (40)
WEIGHT (kg)	Unit / Panel 21 (5)	24 (5)	24 (5)	26 (5)	26 (5)	26 (5)	26 (5)
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
FUSE RATING (BS88) - HRC (A)	6	6	6	6	6	6	6
INTERCONNECTING CABLE No. Cores	4	4	4	4	4	4	4
GRILLE REFERENCE	PLP-6EA	PLP-6EA	PLP-6EA	PLP-6EA	PLP-6EA	PLP-6EA	PLP-6EA
WIRED REMOTE CONTROLLER REFERENCE	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA
WIRELESS REMOTE CONTROLLER REFERENCE	PAR-SL101A-E	PAR-SL101A-E	PAR-SL101A-E	PAR-SL101A-E	PAR-SL101A-E	PAR-SL101A-E	PAR-SL101A-E
SUZ-SM / PUZ-SM OUTDOOR UNITS	SUZ-SM71VA	PUZ-SM100VKA2	PUZ-SM100YKA2	PUZ-SM125VKA2	PUZ-SM125YKA2	PUZ-SM140VKA2	PUZ-SM140YKA2
SOUND PRESSURE LEVEL (dBA) Heating/Cooling	51 / 49	54 / 51	54 / 51	56 / 54	56 / 54	57 / 55	57 / 55
SOUND POWER LEVEL (dBA) Cooling	66	70	70	72	72	73	73
WEIGHT (kg)	55	76	78	84	85	84	85
DIMENSIONS (mm)	Width x Depth x Height 840 x 330 x 880	1050 x 330 x 981					
ELECTRICAL SUPPLY	220-240v, 50Hz	220-240v, 50Hz	380-415v, 50Hz	220-240v, 50Hz	380-415v, 50Hz	220-240v, 50Hz	380-415v, 50Hz
PHASE	Single	Single	Three	Single	Three	Single	Three
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal) 2.28 / 1.97	3.10 / 2.79	3.10 / 2.79	3.73 / 4.17	3.73 / 4.17	4.54 / 5.13	4.54 / 5.13
	Heating/Cooling (UK) 1.94 / 1.70	2.64 / 2.40	2.64 / 2.40	3.17 / 3.59	3.17 / 3.59	3.87 / 4.14	3.87 / 4.14
STARTING CURRENT (A)	10.0	13.4	4.8	17.4	6.3	22.3	8.1
SYSTEM RUNNING CURRENT (A) Heating/Cooling [MAX]	9.7 / 8.3 [14.8]	13.4 / 12.1 [20.0]	4.8 / 4.3 [11.5]	15.6 / 17.4 [26.5]	5.6 / 6.3 [11.5]	19.0 / 22.3 [30.0]	6.9 / 8.1 [11.5]
FUSE RATING (BS88) - HRC (A)	20	32	16	32	16	40	16
MAINS CABLE No. Cores	3	3	5	3	5	3	5
MAX PIPE LENGTH (m)	30	30	30	40	40	40	40
MAX HEIGHT DIFFERENCE (m)	30	30	30	30	30	30	30
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675) 1.45 / 0.98 (7m)	3.10 / 2.09 (30m)	3.10 / 2.09 (30m)	3.60 / 2.43 (30m)			
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675) 2.37 / 1.80	N/A	3.50 / 2.36	4.00 / 2.70	4.00 / 2.70	4.00 / 2.70	4.00 / 2.70

Note: The PLP-6EAE 3D i-See sensor grille or PAC-SE1ME-E corner panel will NOT operate with this model.

Accessories

Indoor Units

PLP-6EA

Grille for PLA-SM71-140EA

PLP-6EA-B

Black grille (Satin finish) for PLA-SM71-140EA

PLP-6EAJ

Self elevating grille for PLA-SM71-140EA

PAR-SE9FA-E

Corner panel with signal receiver for PLA-SM71-140EA

PAC-SJ37SP-E

Shutter plate for PLA-SM71-140EA

PAC-SJ41TM-E

Multi-function casement for PLA-SM71-140EA

PAC-SJ39HR-E

Power supply kit for PLA-SM71-140EA

PAR-SL101A-E

Wireless remote controller for PLA-SM71-140EA

PAC-SH59KF-E

High efficiency filter for PLA-SM71-140EA

PAC-SK53KF-E

V Blocking air purifying filter for PLA-SM71-140EA

PAC-SK51FT-E

Plasma Quad Connect air purifying device for PLA-SM71-140EA

Outdoor Units

MAC-886SG

Air outlet guide for SUZ-SM71VA

PAC-SH96SG

Air outlet guide for PUZ-SM100-140VKA2/YKA2

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE41TS-E

Remote sensor

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB=Premium Finish)

PAR-41MAA

Standard wired remote controller

MAC-587IF-E

Interface for connection to Wi-Fi MELCloud service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

Retail control and input / output interface

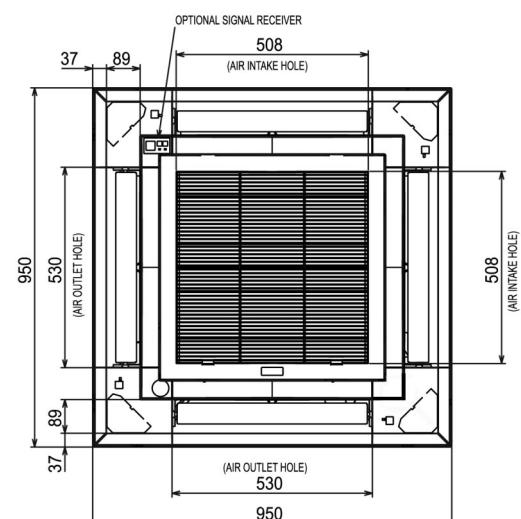
PAC-SJ95MA

M-NET adaptor for size 100 to 140

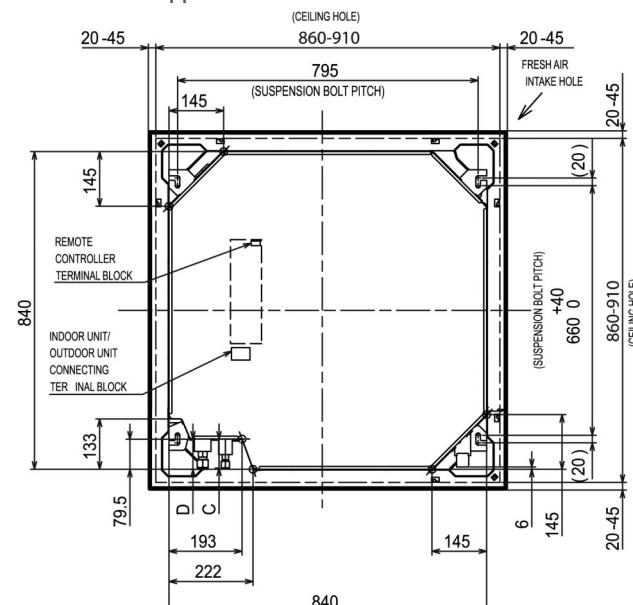
Product Dimensions

PLA-SM71/100/125/140EA

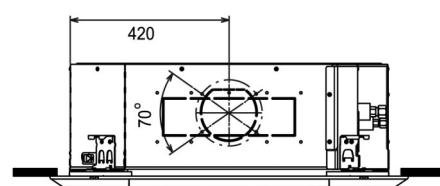
Lower View



Upper View



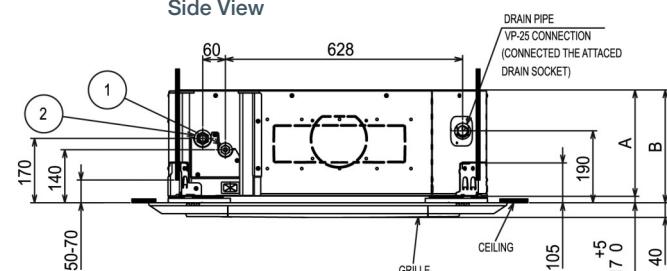
Front View



PLA-SM71/100/125/140

SM	①	②	A	B	C	D
71	FLARED CONNECTION 3/8"REFRIGERANT PIPE Ø 9.52	REFRIGERANT PIPE Ø 15.93 FLARED CONNECTION 5/8"	241	258	79.5	79.5
100-140			281	298		

Side View



Note: Please see page 1.3.66 for the full range of accessories.

SLZ-M R32

600x600 4-Way Blow Ceiling Cassette System

Standard Inverter Heat Pump (Single Phase)



The **SLZ-M Standard Inverter** ceiling cassette unit provides a smart air conditioning solution for tight ceiling spaces. Combining a stylish square design with energy-saving technologies, it is designed to fit snugly into ceilings, making the unit ideal in both small commercial spaces, offices and retail applications.

Key Features & Benefits

- Height of only 245mm to allow installation in narrow ceiling spaces
- Increased comfort levels through advanced airflow
- PAR-41MAA controller allows effective energy consumption monitoring
- Small footprint, single fan chassis across entire outdoor unit range
- Optional 3D i-see sensor grille provides energy efficient, customised comfort by automatically monitoring room occupancy, position and body temperatures (SLP-2FAE)
- Optional V Blocking filter provides in-room air purification, neutralising viruses, allergens, dust and mould

R32

SLZ-M - INDOOR UNITS	SLZ-M15FA2	SLZ-M25FA2	SLZ-M35FA2	SLZ-M50FA2	SLZ-M60FA2
CAPACITY (kW)	Heating (nominal) 1.7 (0.9-3.1) Cooling (nominal) 1.5 (0.9-2.4)	3.2 (1.3-4.2) 2.5 (1.4-3.2)	4.0 (1.0-5.0) 3.5 (0.7-3.9)	5.0 (1.3-5.5) 4.6 (1.0-5.2)	6.4 (1.6-7.3) 5.7 (1.5-6.3)
Heating (UK)	-	2.72 (1.11-3.57)	3.40 (0.85-4.25)	4.25 (1.11-4.68)	5.44 (1.36-6.21)
Cooling (UK)	-	2.30 (1.29-2.94)	3.22 (0.64-3.59)	4.42 (0.92-4.79)	5.25 (1.38-5.80)
SHF (nominal)	-	0.78	0.72	0.68	0.68
COP / EER (nominal)	-	3.61 / 3.80	3.71 / 3.20	3.20 / 3.40	3.00 / 3.40
SCOP / SEER (BS EN14825)	-	4.30 / 6.30	4.30 / 6.70	4.20 / 6.30	4.10 / 6.20
ErP ENERGY EFFICIENCY CLASS	Heating/Cooling	A+ / A++	A+ / A++	A+ / A++	A+ / A++
AIRFLOW (l/s)	Lo-Mi-Hi	100-108-117	108-125-142	108-133-158	117-150-192
PIPE SIZE mm (in)	Gas 9.52 (3/8") Liquid 6.35 (1/4")	9.52 (3/8") 6.35 (1/4")	9.52 (3/8") 6.35 (1/4")	12.7 (1/2") 6.35 (1/4")	15.88 (5/8") 6.35 (1/4")
SOUND PRESSURE LEVEL (dBA)	Lo-Mi-Hi 24-26-28	24-26-28	25-28-31	25-30-34	27-34-39
SOUND POWER LEVEL (dBA)	45	45	48	51	56
DIMENSIONS (mm) Width x Depth x Height	570 (625) x 570 (625) x 245 (10)	570 (625) x 570 (625) x 245 (10)	570 (625) x 570 (625) x 245 (10)	570 (625) x 570 (625) x 245 (10)	570 (625) x 570 (625) x 245 (10)
WEIGHT (kg)	Unit / Grille 15 / 3	15 / 3	15 / 3	15 / 3	15 / 3
ELECTRICAL SUPPLY	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit
FUSE RATING (BS88) - HRC (A)	6	6	6	6	6
INTERCONNECTING CABLE No. Cores	4	4	4	4	4
GRILLE REFERENCE	SLP-2FA	SLP-2FA	SLP-2FA	SLP-2FA	SLP-2FA
WIRED REMOTE CONTROLLER REFERENCE	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA

Note: SLZ-M15FA only available with R32 MXZ Multi-Split outdoor units.

SUZ-M - OUTDOOR UNITS	N/A MULTI-SPLIT ONLY	SUZ-M25VAR2	SUZ-M35VAR2	SUZ-M50VAR2	SUZ-M60VAR2
SOUND PRESSURE LEVEL (dBA) Heating/Cooling	-	45 / 46	48 / 48	48 / 49	49 / 51
SOUND POWER LEVEL (dBA) Cooling	-	59	59	64	65
WEIGHT (kg)	-	30	35	41	54
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 Heating/Cooling (nominal)	-	0.88 / 0.65	1.07 / 1.09	1.56 / 1.35	2.13 / 1.67
INPUT (kW) Heating/Cooling (UK)	-	0.75 / 0.56	0.91 / 0.94	1.33 / 1.16	1.81 / 1.44
STARTING CURRENT (A)	-	3.1	5.0	5.7	7.6
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]	9.3 / 8.4 [14.9]
FUSE RATING (BS88) - HRC (A)	-	10	10	20	20
MAINS CABLE No. Cores	-	3	3	3	3
MAX PIPE LENGTH (m)	-	20	20	30	30
MAX HEIGHT DIFFERENCE (m)	-	12	12	30	30
CHARGE REFRIGERANT (KG) / CO ₂ EQUIVALENT (T)	R32 (GWP 675) - 7m	0.65 / 0.44	0.90 / 0.61	1.20 / 0.81	1.25 / 0.84
MAX ADDITIONAL REFRIGERANT (KG) / R32 (GWP 675) CO ₂ EQUIVALENT (T)	-	0.91 / 0.61	1.16 / 0.78	1.66 / 1.12	1.71 / 1.15

Accessories

Indoor Units

SLP-2FA

Grille for SLZ-M15-60FA2

SLP-2FAE

3D i-see sensor grille for SLZ-M15-60FA2

PAC-SK54KF-E

V Blocking air purifying filter for SLZ-M15-60FA2

Outdoor Units

MAC-881SG

Air outlet guide for SUZ-M25-35VAR2

MAC-882SG

Air outlet guide for SUZ-M50VAR2

MAC-886SG

Air outlet guide for SUZ-M60VAR2

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE41TS-E

Remote sensor

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB=Premium Finish)

PAR-41MAA

Standard wired remote controller

MAC-334IF-E

Interface for M-NET, MA remote controller (PAR-41MAA / PAR-CT01MAA), on/off input and run/fault output

MAC-497IF-E

Interface for MA remote controller (PAR-41MAA / PAR-CT01MAA)

MAC-587IF-E

Interface for connection to Wi-Fi MELCloud service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

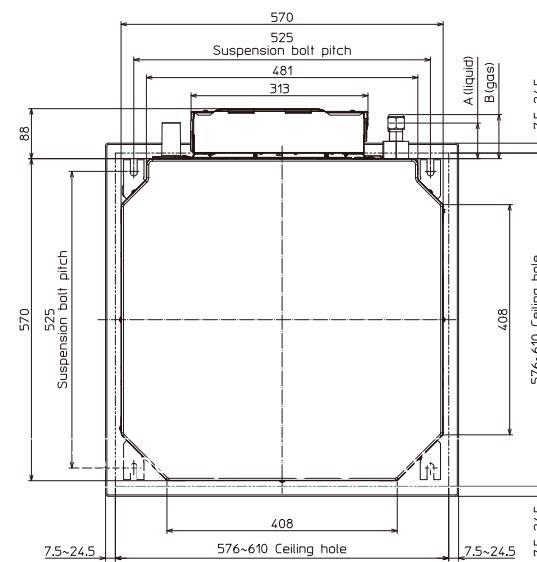
MELCORETAIL MINI

Retail control and input / output interface

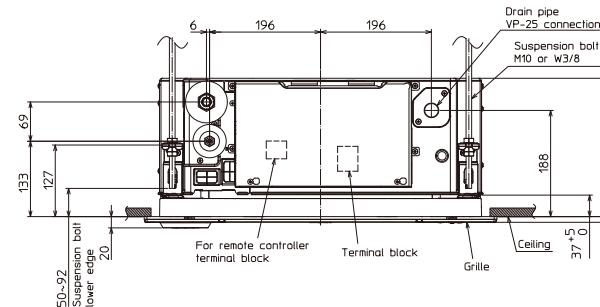
Product Dimensions

SLZ-M15/25/35/50/60FA2

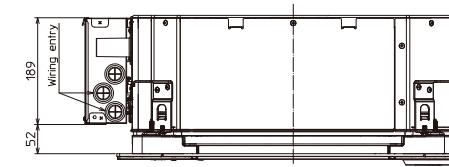
Upper View



Side View



Front View



Note: Please see page 1.3.66 for the full range of accessories.

PKA-M R32 Wall Mounted System

Power Inverter Heat Pump



The **PKA-M Power Inverter** range is a wall mounted system that blends a host of outstanding features with a sleek design. Offering high seasonal efficiency, advanced control options, extended pipe runs and energy monitoring (via PAR-41MAA controller) as standard, this range is a flexible choice for small commercial and office applications, as well as restaurants and comms rooms.

Key Features & Benefits

- Increased comfort levels through advanced airflow and smart defrost features
- 100m pipe run (size 100), increasing application capability
- 14°C set point option; ideal for applications where a specialist ambient condition is required (requires PAR-41MAA or PAR-SL101A-E controller)
- 'Backup and rotate' feature to reduce load on individual units and prolong product life (requires PAR-41MAA controller)
- Full heating capacity down to -3°C
- Internal pipe connection for ease of installation
- Compatible with Plasma Quad Connect - an innovative, bolt-on air purifying device which neutralises viruses, bacteria, allergens, PM2.5, mould and dust. For more information, please refer to page 1.1.7

R32

PKA-M - INDOOR UNITS		PKA-M35LA2	PKA-M50LA2	PKA-M60KA2	PKA-M71KA2	PKA-M100KA2	PKA-M100KA2
CAPACITY (kW)		Heating (nominal) 3.6 (1.6-4.5)	5.0 (2.5-7.3)	7.0 (2.8-8.2)	8.0 (3.5-10.2)	11.2 (4.5-14.0)	11.2 (4.5-14.0)
		Cooling (nominal) 3.5 (1.35-4.4)	4.6 (2.3-5.6)	6.1 (2.7-6.7)	7.1 (3.3-8.1)	9.5 (4.9-11.4)	9.5 (4.9-11.4)
		Heating (UK) 3.3 (1.45-4.15)	4.25 (2.15-6.2)	5.95 (2.4-6.95)	6.8 (3.0-8.65)	9.5 (3.85-11.9)	9.5 (3.85-11.9)
		Cooling (UK) 3.3 (1.45-4.15)	4.23 (2.1-5.15)	5.5 (2.5-6.15)	6.55 (3.05-7.45)	9.2 (4.5-10.5)	9.2 (4.5-10.5)
SHF (nominal)		0.74	0.66	0.86	0.78	0.73	0.73
COP / EER (nominal)		3.94 / 4.20	3.72 / 3.71	4.04 / 3.91	3.78 / 3.81	3.61 / 3.95	3.61 / 3.95
SCOP / SEER (BS EN14825)		4.0 / 6.5	4.3 / 6.6	4.2 / 6.8	4.3 / 6.8	4.4 / 6.5	4.4 / 6.4
ERP ENERGY EFFICIENCY CLASS	Heating/Cooling	A+ / A++	A+ / A++	A+ / A++	A+ / A++	A+ / A++	A+ / A++
AIRFLOW (l/s)	Lo-Mi1-Mi2-Hi	125-137-153-182	125-137-153-182	300-333-367	300-333-367	333-383-433	333-383-433
PIPE SIZE MM (in)	Gas	12.7 (1/2")	12.7 (1/2")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
	Liquid	6.35 (1/4")	6.35 (1/4")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
SOUND PRESSURE LEVEL (dBA)	Lo-Mi1-Mi2-Hi	34-37-40-43	34-37-40-43	39-42-45	39-42-45	41-45-49	41-45-49
SOUND POWER LEVEL (dBA)		60	60	64	64	65	65
DIMENSIONS (mm)	Width x Depth x Height	898 x 237 x 299	898 x 237 x 299	1170 x 295 x 365			
WEIGHT (kg)		12.6	12.6	21	21	21	21
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
FUSE RATING (BS88) - HRC (A)		6	6	6	6	6	6
INTERCONNECTING CABLE NO. CORES		4	4	4	4	4	4
WIRED REMOTE CONTROLLER REFERENCE		PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA
WIRELESS REMOTE CONTROLLER REFERENCE		PAR-SL101A-E / PAR-FL32MA	PAR-SL101A-E / PAR-FL32MA	PAR-SL101A-E / PAR-FL32MA	PAR-SL101A-E / PAR-FL32MA	PAR-SL101A-E / PAR-FL32MA	PAR-SL101A-E / PAR-FL32MA
PUZ-ZM - OUTDOOR UNITS		PUZ-ZM35VKA2	PUZ-ZM50VKA2	PUZ-ZM60VHA2	PUZ-ZM71VHA2	PUZ-ZM100VKA2	PUZ-ZM100YKA2 ⁽³⁾
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	46 / 44	46 / 44	49 / 47	49 / 47	51 / 49	51 / 49
SOUND POWER LEVEL (dBA)	Cooling	65	65	67	67	69	69
WEIGHT (kg)		46	46	67	67	105	111
DIMENSIONS (mm)	Width x Depth x Height	809 x 300 x 630	809 x 300 x 630	950 x 330 + 25 x 943	950 x 330 + 25 x 943	1050 x 330 + 40 x 1338	1050 x 330 + 40 x 1338
ELECTRICAL SUPPLY		220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	380-415v, 50Hz
PHASE		Single	Single	Single	Single	Single	Three
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal)	1.040 / 0.869	1.347 / 1.239	1.732 / 1.560	2.116 / 1.863	3.102 / 2.405	3.102 / 2.405
	Heating/Cooling (UK)	0.81 / 0.84	1.12 / 1.12	1.25 / 1.65	1.54 / 1.92	2.47 / 2.06	2.47 / 2.06
STARTING CURRENT (A)		4.3	4.3	5.3	5.3	10.7	2.6
SYSTEM RUNNING CURRENT (A)	Heating/Cooling [MAX]	4.97 / 4.31 [13.4]	5.98 / 5.57 [13.4]	7.41 / 6.65 [19.4]	9.10 / 7.96 [19.4]	13.46 / 10.45 [27.1]	4.49 / 5.45 [8.6]
FUSE RATING (BS88) - HRC (A)		16	16	25	25	32	16
MAINS CABLE NO. CORES		3	3	3	3	3	5
MAX PIPE LENGTH (m)		50	50	55	55	100	100
MAX HEIGHT DIFFERENCE (m)		30	30	30	30	30	30
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675)	2.00 / 1.35 (30m)	2.00 / 1.35 (30m)	2.80 / 1.89 (30m)	2.80 / 1.89 (30m)	3.60 / 2.43 (40m)	3.60 / 2.43 (40m)
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675)	0.30 / 0.20	0.30 / 0.20	0.80 / 0.54	0.80 / 0.54	2.40 / 1.62	2.40 / 1.62

⁽³⁾ Three Phase

Accessories

Indoor Units

PAR-FL32MA

Wireless remote controller for PKA-M35-100LA2/KA2

PAR-SL101A-E

Wireless remote controller for PKA-M35-100LA2/KA2

MAC-100FT-E

Plasma Quad Connect air purifying device

Outdoor Units

PAC-SJ07SG

Air outlet guide for PUZ-ZM35-50VKA2

PAC-SG59SG

Air outlet guide for PUZ-ZM60-71VHA2

PAC-SH96SG

Air outlet guide for PUZ-ZM100VKA2/YKA2

PAC-SJ71FM-E

30Pa outdoor fan motor for PUZ-ZM100VKA2/YKA2

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE41TS-E

Remote sensor

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB=Premium Finish)

PAR-41MAA

Standard wired remote controller

MAC-587IF-E

Interface for connection to Wi-Fi MELCloud service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

Retail control and input / output interface

PAC-SK15MA-E

M-NET adaptor for size 35 and 50

PAC-SJ95MA

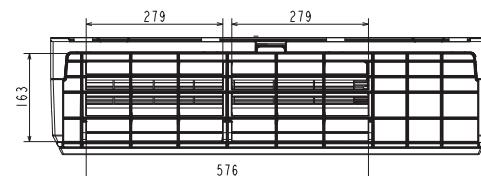
M-NET adaptor for size 60 to 100

Note: Please see page 1.3.66 for the full range of accessories.

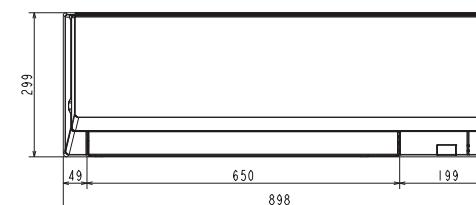
Product Dimensions

PKA-M35/50LA2

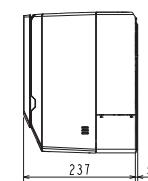
Upper View



Front View



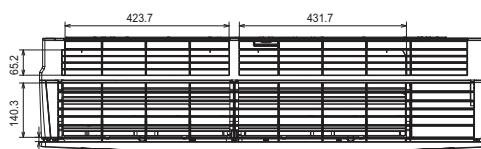
Side View



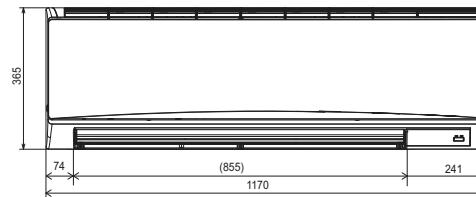
Product Dimensions

PKA-M60/71/100KA2

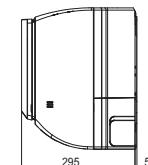
Upper View



Front View



Side View



PKA-M R32 Wall Mounted System

Standard Inverter Heat Pump



The cost effective **PKA-M Standard Inverter** range is a wall mounted system that blends a host of outstanding features with a sleek design. Offering advanced control options, extended pipe runs and energy monitoring (via PAR-41MAA controller) as standard, this range is a flexible choice for small commercial and office applications, as well as restaurants and comms rooms.

Key Features & Benefits

- Increased comfort levels through advanced airflow and smart defrost features
- 14°C set point option; ideal for applications where a specialist ambient condition is required (requires PAR-41MAA or PAR-SL101A-E controller)
- 'Backup and rotate' feature to reduce load on individual units and prolong product life (requires PAR-41MAA controller)
- Internal pipe connection for ease of installation
- Compatible with Plasma Quad Connect - an innovative, bolt-on air purifying device which neutralises viruses, bacteria, allergens, PM2.5, mould and dust. For more information, please refer to page 1.1.7



PKA-M - INDOOR UNITS	PKA-M100KA2	PKA-M100KA2	
CAPACITY (kW)	Heating (nominal) Cooling (nominal) Heating (UK) Cooling (UK)	11.2 (2.8-12.5) 9.5 (4.0-10.6) 9.63 (2.41-10.75) 8.65 (3.64-9.65)	11.2 (2.8-12.5) 9.5 (4.0-10.6) 9.63 (2.41 - 10.75) 8.65 (3.64 - 9.65)
SHF (nominal)		0.73	0.73
COP / EER (nominal)		3.41 / 3.23	3.41 / 3.23
SCOP / SEER (BS EN14825)		4.00 / 5.80	4.00 / 5.80
ErP ENERGY EFFICIENCY CLASS	Heating/Cooling	A+ / A+	A+ / A+
AIRFLOW (l/s)	Lo-Mi-Hi	333-383-433	333-383-433
PIPE SIZE mm (in)	Gas Liquid	15.88 (5/8") 9.52 (3/8")	15.88 (5/8") 9.52 (3/8")
SOUND PRESSURE LEVEL (dBA)	Lo-Mi-Hi	41-45-49	41-45-49
SOUND POWER LEVEL (dBA)		65	65
DIMENSIONS (mm)	Width x Depth x Height	1170 x 295 x 365	1170 x 295 x 365
WEIGHT (kg)		21	21
ELECTRICAL SUPPLY		Fed by Outdoor Unit	Fed by Outdoor Unit
FUSE RATING (BS88) - HRC (A)		6	6
INTERCONNECTING CABLE No. Cores		4	4
WIRED REMOTE CONTROLLER REFERENCE		PAR-41MAA	PAR-41MAA
WIRELESS REMOTE CONTROLLER REFERENCE		PAR-SL101A-E / PAR-FL32MA	PAR-SL101A-E / PAR-FL32MA

PUZ-M - OUTDOOR UNITS	PUZ-M100VKA2	PUZ-M100YKA2	③
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	51 / 54	51 / 54
SOUND POWER LEVEL (dBA)	Cooling	70	70
WEIGHT (kg)		76	78
DIMENSIONS (mm)	Width x Depth x Height	1050 x 330 x 981	1050 x 330 x 981
ELECTRICAL SUPPLY		220-240v, 50Hz	380-415v, 50Hz
PHASE		Single	Three
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal) Heating/Cooling (UK)	3.28 / 2.94 2.95 / 2.44	3.28 / 2.94 2.95 / 2.44
STARTING CURRENT (A)		7.1	3.5
SYSTEM RUNNING CURRENT (A)	Heating/Cooling [MAX]	14.2 / 12.7 [20]	5.1 / 4.6 [11.5]
FUSE RATING (BS88) - HRC (A)		32	16
MAINS CABLE No. Cores		3	5
MAX PIPE LENGTH (m)		55	55
MAX HEIGHT DIFFERENCE (m)		30	30
CHARGE REFRIGERANT (KG) / CO ₂ EQUIVALENT (t)	R32 (GWP 675) - 30m	3.10 / 2.09	3.10 / 2.09
MAX ADDITIONAL REFRIGERANT (KG) / CO ₂ EQUIVALENT (t)	R32 (GWP 675)	4.10 / 2.77	4.10 / 2.77

③ Three Phase

Accessories

Indoor Units

PAR-FL32MA

Wireless remote controller for PKA-M100KA2

PAR-SL101A-E

Wireless remote controller for PKA-M100KA2

MAC-100FT-E

Plasma Quad Connect air purifying device

Outdoor Units

PAC-SH96SG

Air outlet guide for PUZ-M100VKA2/YKA2

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE41TS-E

Remote sensor

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB=Premium Finish)

PAR-41MAA

Standard wired remote controller

MAC-587IF-E

Interface for connection to Wi-Fi MELCloud service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

Retail control and input / output interface

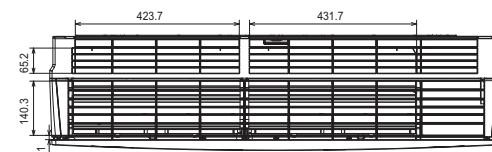
PAC-SJ95MA

M-NET adaptor for size 100

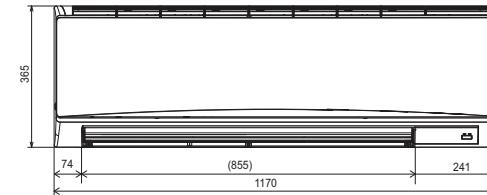
Product Dimensions

PKA-M100KA2

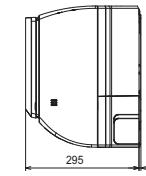
Upper View



Front View



Side View



Note: Please see page 1.3.66 for the full range of accessories.

PEAD-M R32 Ceiling Concealed Ducted System

Power Inverter Heat Pump (Single Phase)



The **PEAD-M Power Inverter** range is a ceiling concealed ducted system that blends a host of outstanding features with an unobtrusive design (only 250mm height) for easy installation and maintenance. Offering high seasonal efficiency, advanced control options and extended pipe runs, the units also come with a wide range of external static pressure settings, making this range an extremely flexible solution for applications such as light commercial, schools and warehousing.

Key Features & Benefits

- Increased comfort levels through advanced airflow and smart defrost features
- 100m pipe run (size 100-140), increasing application capability
- PAR-41MAA controller allows effective energy monitoring
- Improved efficiency through new fan motor
- Full heating capacity down to -3°C
- Drain pump included as standard
- Compatible with Plasma Quad Connect - an innovative, bolt-on air purifying device which neutralises viruses, bacteria, allergens, PM2.5, mould and dust. For more information, please refer to page 1.1.7

R32

PEAD-M - INDOOR UNITS	PEAD-M35JA2	PEAD-M50JA2	PEAD-M60JA2	PEAD-M71JA2	PEAD-M100JA2	PEAD-M125JA2	PEAD-M140JA2
CAPACITY (kW)	Heating (nominal) 3.6 (1.6-5.2)	6.0 (2.5-7.3)	7.0 (2.8-8.2)	8.0 (3.5-10.2)	11.2 (4.5-14.0)	14.0 (5.0-16.0)	16.0 (5.7-18.0)
	Cooling (nominal) 3.6 (1.6-4.5)	5.0 (2.3-5.6)	6.1 (2.7-6.7)	7.1 (3.3-8.1)	9.5 (4.9-11.4)	12.5 (5.5-14.0)	13.4 (6.2-15.3)
	Heating (UK) 3.5 (1.35-4.4)	5.1 (2.15-6.2)	5.95 (2.4-6.95)	6.8 (3.0-8.65)	9.5 (3.85-11.9)	11.9 (4.25-13.6)	13.6 (4.85-15.3)
	Cooling (UK) 3.3 (1.45-4.15)	4.6 (2.1-5.15)	5.5 (2.5-6.15)	6.55 (3.05-7.45)	9.2 (4.5-10.5)	11.5 (5.05-12.9)	12.9 (5.7-14.1)
SHF (nominal)	0.85	0.84	0.83	0.80	0.82	0.78	0.77
COP / EER (nominal)	4.50 / 4.30	4.40 / 4.20	4.40 / 4.10	4.20 / 4.00	4.40 / 4.20	3.72 / 3.75	3.90 / 3.62
SCOP (nsh) / SEER (nsc) (BS EN14825)	4.1 (161.6%) / 6.3 (278.9%)	4.4 (174.1%) / 6.4 (274.1%)	4.2 (165.8%) / 6.2 (264.9%)	4.3 (170.1%) / 6.3 (265.6%)	4.4 (173.9%) / 6.6 (277.4%)	4.1 (163.2%) / 6.2 (256.3%)	4.1 (162.5%) / 6.2 (255.5%)
ERP ENERGY EFFICIENCY CLASS	Heating/Cooling A / A++	A+ / A++	A+ / A++	A+ / A++	A+ / A++	A+ / A++	A+ / A++
AIRFLOW (l/s)	Lo-Mi-Hi 167-200-233	200-242-283	242-300-350	242-300-383	383-467-533	467-567-617	492-592-667
PIPE SIZE MM (in)	Gas 12.7 (1/2")	12.7 (1/2")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
Liquid	6.35 (1/4")	6.35 (1/4")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
EXTERNAL STATIC PRESSURE (Pa)	35-50-70-100-150	35-50-70-100-150	35-50-70-100-150	35-50-70-100-150	35-50-70-100-150	35-50-70-100-150	35-50-70-100-150
SOUND PRESSURE LEVEL (dBA)	Lo-Mi-Hi 24-29-32	27-33-35	26-32-35	26-32-37	31-36-39	35-39-41	34-38-41
SOUND POWER LEVEL (dBA)	54	58	56	58	62	66	66
DIMENSIONS (mm)	Width x Depth x Height 900 x 732 x 250	900 x 732 x 250	1100 x 732 x 250	1100 x 732 x 250	1400 x 732 x 250	1400 x 732 x 250	1600 x 732 x 250
WEIGHT (kg)	25	26.5	29.5	29.5	37	38	42
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
FUSE RATING (BS88) - HRC (A)	6	6	6	6	6	6	6
INTERCONNECTING CABLE NO. CORES	4	4	4	4	4	4	4
WIRED REMOTE CONTROLLER REFERENCE	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA
PUZ-ZM - OUTDOOR UNITS	PUZ-ZM35VKA2	PUZ-ZM50VKA2	PUZ-ZM60VHA2	PUZ-ZM71VHA2	PUZ-ZM100VKA2	PUZ-ZM125VKA2	PUZ-ZM140VKA2
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling 46 / 44	46 / 44	49 / 47	49 / 47	51 / 49	52 / 50	52 / 50
SOUND POWER LEVEL (dBA)	Cooling 65	65	67	67	69	70	70
WEIGHT (kg)	46	46	67	67	105	105	105
DIMENSIONS (mm)	Width x Depth x Height 809 x 300 x 630	809 x 300 x 630	950 x 330 + 25 x 943	950 x 330 + 25 x 943	1050 x 330 + 40 x 1338	1050 x 330 + 40 x 1338	1050 x 330 + 40 x 1338
ELECTRICAL SUPPLY	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
PHASE	Single	Single	Single	Single	Single	Single	Single
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal) 0.911 / 0.837	1.363 / 1.190	1.590 / 1.487	1.904 / 1.775	2.545 / 2.261	3.763 / 3.333	4.102 / 3.701
Heating/Cooling (UK) 0.76 / 0.76	1.15 / 1.05	1.30 / 1.37	1.70 / 1.50	2.03 / 1.94	3.34 / 2.83	3.65 / 3.15	
STARTING CURRENT (A)	4.3	4.3	5.3	5.3	10.7	13.2	13.2
SYSTEM RUNNING CURRENT (A)	Heating/Cooling [MAX] 3.28 / 3.30 [14.2]	5.01 / 4.57 [14.4]	5.65 / 5.96 [20.9]	7.37 / 6.54 [20.9]	8.84 / 8.44 [22.3]	14.52 / 12.28 [28.8]	15.85 / 13.68 [32.6]
FUSE RATING (BS88) - HRC (A)	16	16	25	25	32	32	40
MAINS CABLE NO. CORES	3	3	3	3	3	3	3
MAX PIPE LENGTH (m)	50	50	55	55	100	100	100
MAX HEIGHT DIFFERENCE (m)	30	30	30	30	30	30	30
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675)	2.00 / 1.35 (30m)	2.00 / 1.35 (30m)	2.80 / 1.89 (30m)	2.80 / 1.89 (30m)	3.60 / 2.43 (40m)	3.60 / 2.43 (40m)
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675)	0.30 / 0.20	0.30 / 0.20	0.80 / 0.54	0.80 / 0.54	2.40 / 1.62	2.40 / 1.62

Accessories

Indoor Units

MAC-100FT-E

Plasma Quad Connect air purifying device

PAC-HA31PAR

Plasma Quad Connect metal fitment

Outdoor Units

PAC-SJ07SG

Air outlet guide for PUZ-ZM35-50VKA2

PAC-SG59SG

Air outlet guide for PUZ-ZM60-71VHA2

PAC-SH96SG

Air outlet guide for PUZ-ZM100-140VKA2

PAC-SJ71FM-E

30Pa outdoor fan motor for PUZ-ZM100-140VKA2

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE41TS-E

Remote sensor

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB=Premium Finish)

PAR-41MAA

Standard wired remote controller

MAC-587IF-E

Interface for connection to Wi-Fi MELCloud service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

Retail control and input / output interface

PAC-SK15MA-E

M-NET adaptor for size 35 and 50

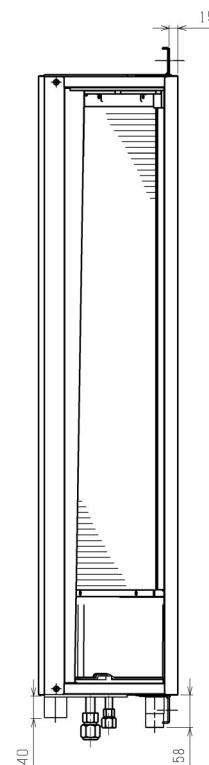
PAC-SJ95MA

M-NET adaptor for size 60 to 140

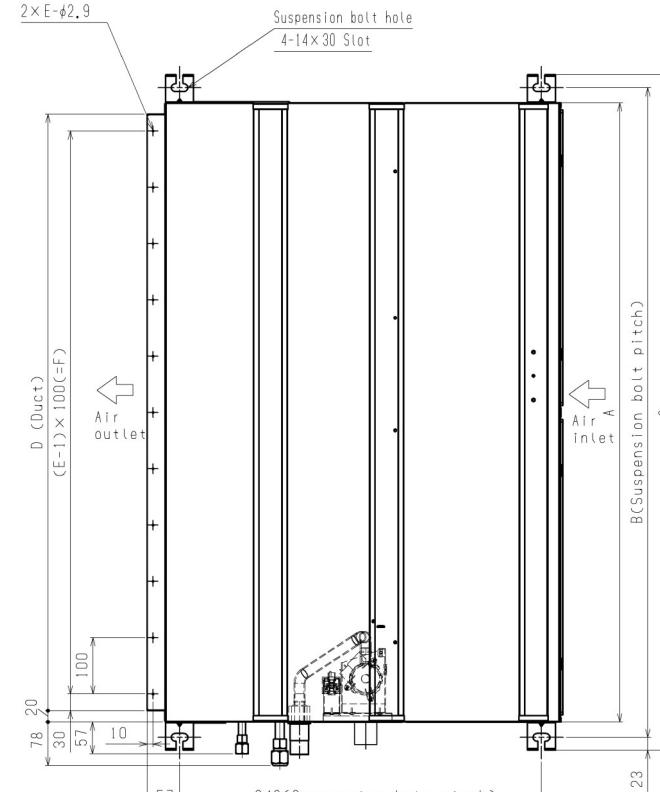
Product Dimensions

PEAD-M35/50/60/71/100/125/140JA2

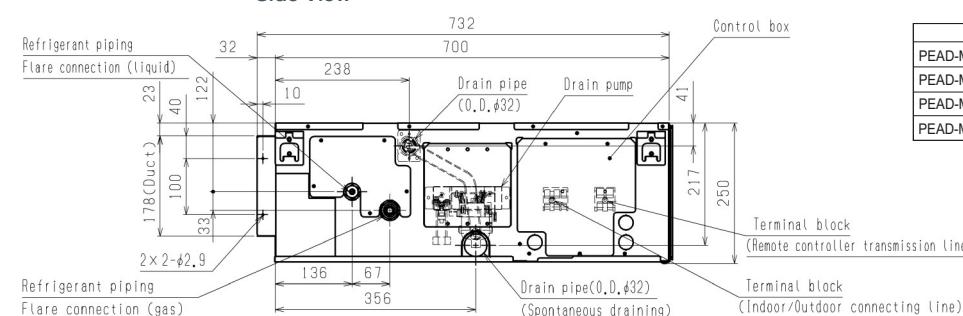
Front View



Upper View



Side View



Model	A	B	C	D	E	F
PEAD-M35,50JA2	900	954	1000	860	9	800
PEAD-M60,71JA2	1100	1154	1200	1060	11	1000
PEAD-M100,125JA2	1400	1454	1500	1360	14	1300
PEAD-M140JA2	1600	1654	1700	1560	16	1500

Note: Please see page 1.3.66 for the full range of accessories.

PEAD-M R32 Ceiling Concealed Ducted System

Power Inverter Heat Pump (Three Phase)



The **PEAD-M Power Inverter** range is a ceiling concealed ducted system that blends a host of outstanding features with an unobtrusive design (only 250mm height) for easy installation and maintenance. Offering high seasonal efficiency, advanced control options and extended pipe runs, the units also come with a wide range of external static pressure settings, making this range an extremely flexible solution for applications such as light commercial, schools and warehousing.

Key Features & Benefits

- Increased comfort levels through advanced airflow and smart defrost features
- 100m pipe run, increasing application capability
- PAR-41MAA controller allows effective energy monitoring
- Improved efficiency through new fan motor
- Full heating capacity down to -3°C
- Drain pump included as standard
- Compatible with Plasma Quad Connect - an innovative, bolt-on air purifying device which neutralises viruses, bacteria, allergens, PM2.5, mould and dust. For more information, please refer to page 1.1.7

R32

PEAD-M - INDOOR UNITS	PEAD-M100JA2	PEAD-M125JA2	PEAD-M140JA2	
CAPACITY (kW)	Heating (nominal) Cooling (nominal) Heating (UK) Cooling (UK)	11.2 (4.5-14.0) 9.5 (4.9-11.4) 9.5 (3.85-11.9) 9.2 (4.5-10.5)	14.0 (5.0-16.0) 12.5 (5.5-14.0) 11.9 (4.25-13.6) 11.5 (5.05-12.9)	16.0 (5.7-18.0) 13.4 (6.2-15.3) 13.6 (4.85-15.3) 12.9 (5.7-14.1)
SHF (nominal)	0.82	0.78	0.77	
COP / EER (nominal)	4.40 / 4.20	3.72 / 3.75	3.90 / 3.62	
SCOP (ηsh) / SEER (ηsc) (BS EN14825)	4.4 (173.8%) / 6.5 (275%)	4.1 (163.1%) / 6.1 (254.8%)	4.1 (162.5%) / 6.1 (254%)	
ERP ENERGY EFFICIENCY CLASS	Heating/Cooling	A+ / A++	A+ / A++	
AIRFLOW (l/s)	Lo-Mi-Hi	383-467-533	467-567-617	
PIPE SIZE MM (in)	Gas Liquid	15.88 (5/8") 9.52 (3/8")	15.88 (5/8") 9.52 (3/8")	
EXTERNAL STATIC PRESSURE (Pa)	35-50-70-100-150	35-50-70-100-150	35-50-70-100-150	
SOUND PRESSURE LEVEL (dBA)	Lo-Mi-Hi	31-36-39	35-39-41	
SOUND POWER LEVEL (dBA)		62	66	
DIMENSIONS (mm)	Width x Depth x Height	1400 x 732 x 250	1400 x 732 x 250	
WEIGHT (kg)		37	38	
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	
WIRED REMOTE CONTROLLER REFERENCE	PAR-41MAA	PAR-41MAA	PAR-41MAA	
PUZ-ZM - OUTDOOR UNITS	PUZ-ZM100YKA2	PUZ-ZM125YKA2	PUZ-ZM140YKA2	
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	51 / 49	52 / 50	
SOUND POWER LEVEL (dBA)	Cooling	69	70	
WEIGHT (kg)		111	114	
DIMENSIONS (mm)	Width x Depth x Height	1050 x 330 + 40 x 1338	1050 x 330 + 40 x 1338	
ELECTRICAL SUPPLY		380-415v,50Hz	380-415v,50Hz	
PHASE		Three	Three	
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal) Heating/Cooling (UK)	2.545 / 2.261 2.03 / 1.94	3.763 / 3.333 3.34 / 2.83	
STARTING CURRENT (A)		2.6	3.3	
SYSTEM RUNNING CURRENT (A)	Heating/Cooling [MAX]	5.08 / 4.85 [10.3]	8.35 / 7.06 [11.3]	
FUSE RATING (BS88) - HRC (A)		16	16	
MAINS CABLE NO. CORES		5	5	
MAX PIPE LENGTH (m)		100	100	
MAX HEIGHT DIFFERENCE (m)		30	30	
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675) - 40m	3.60 / 2.43	3.60 / 2.43	
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675)	2.40 / 1.62	2.40 / 1.62	

③ Three Phase

Accessories

Indoor Units

MAC-100FT-E

Plasma Quad Connect air purifying device

PAC-HA31PAR

Plasma Quad Connect metal fitment

Outdoor Units

PAC-SH96SG

Air outlet guide for PUZ-ZM100-140YKA2

PAC-SJ71FM-E

30Pa outdoor fan motor for PUZ-ZM100-140YKA2

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE41TS-E

Remote sensor

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB=Premium Finish)

PAR-41MAA

Standard wired remote controller

MAC-587IF-E

Interface for connection to Wi-Fi MELCloud service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

Retail control and input / output interface

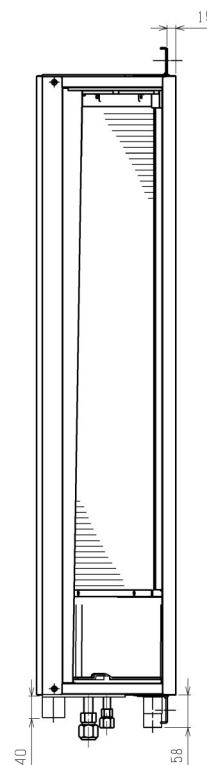
PAC-SJ95MA

M-NET adaptor for size 100 to 140

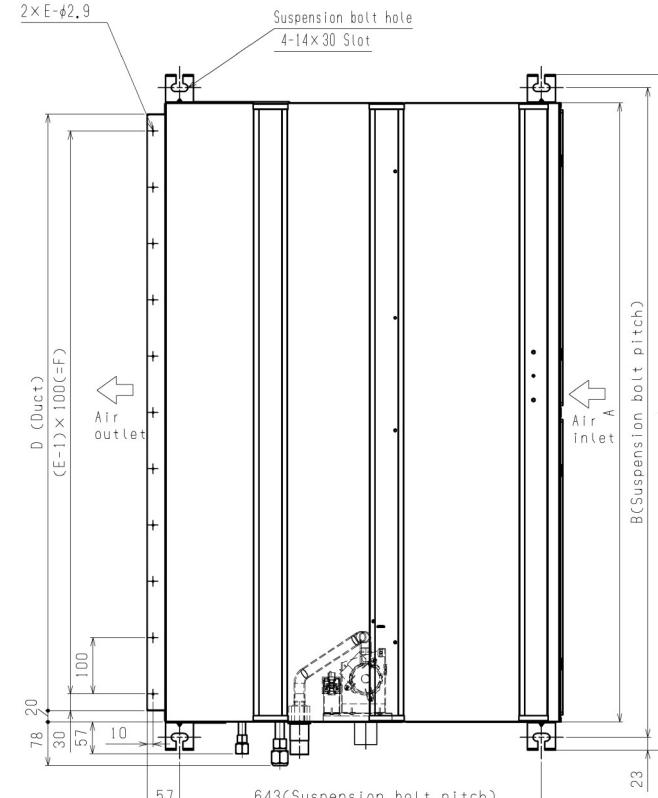
Product Dimensions

PEAD-M100/125/140JA2

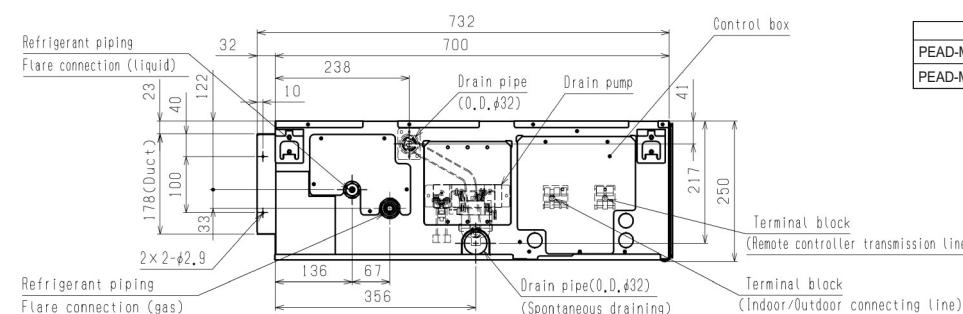
Front View



Upper View



Side View



Model	A	B	C	D	E	F
PEAD-M100,125JA2	1400	1454	1500	1360	14	1300
PEAD-M140JA2	1600	1654	1700	1560	16	1500

Note: Please see page 1.3.66 for the full range of accessories.

PEAD-M R32 Ceiling Concealed Ducted System

Standard Inverter Heat Pump (Single Phase)



The cost effective **PEAD-M Standard Inverter** range is a ceiling concealed ducted system that blends a host of outstanding features with an unobtrusive design (only 250mm height) for easy installation and maintenance. Offering advanced control options and extended pipe runs, the units also come with a wide range of external static pressure settings, making this range an extremely flexible solution for applications such as light commercial, schools and warehousing.

Key Features & Benefits

- Increased comfort levels through advanced airflow and smart defrost features (size 100-140)
- PAR-41MAA controller allows effective energy monitoring
- Improved efficiency through new fan motor
- Drain pump included as standard
- Compatible with Plasma Quad Connect - an innovative, bolt-on air purifying device which neutralises viruses, bacteria, allergens, PM2.5, mould and dust. For more information, please refer to page 1.1.7

R32

PEAD-M - INDOOR UNITS	PEAD-M35JA2	PEAD-M50JA2	PEAD-M60JA2	PEAD-M71JA2	PEAD-M100JA2	PEAD-M125JA2	PEAD-M140JA2
CAPACITY (kW)							
Heating (nominal)	4.1 (1.1-5.0)	6.0 (1.5-7.2)	7.0 (1.6-8.0)	8.0 (2.0-10.2)	11.2 (2.8-12.5)	13.5 (4.1-15.0)	15.0 (4.2-15.8)
Cooling (nominal)	3.6 (0.8-3.9)	5.0 (1.7-5.6)	6.1 (1.6-6.3)	7.1 (2.2-8.1)	9.5 (4.0-10.6)	12.1 (6.0-13.0)	13.4 (6.1-14.1)
Heating (UK)	3.49 (0.94-4.25)	5.10 (1.28-6.12)	5.96 (1.36-6.8)	6.80 (1.70-8.67)	9.63 (2.41-10.75)	11.61 (3.53-12.90)	12.90 (3.61-13.59)
Cooling (UK)	3.31 (0.74-3.59)	4.60 (1.56-5.15)	5.16 (1.47-5.80)	6.53 (2.02-7.45)	8.65 (3.64-9.65)	11.01 (5.46-11.83)	12.19 (5.55-12.83)
SHF (nominal)	0.85	0.84	0.83	0.80	0.82	0.78	0.77
COP / EER (nominal)	4.00 / 3.90	4.10 / 3.70	3.80 / 3.60	3.80 / 3.50	3.80 / 3.30	3.61 / 3.01	3.61 / 2.81
SCOP (nsh) / SEER (nsc) (BS EN14825)	4.10 (161.8%) / 6.30 (260.9%)	4.20 (166.9%) / 6.30 (256.9%)	4.10 (162.4%) / 6.10 (250.5%)	4.10 (161.6%) / 6.20 (252.7%)	4.10 (161.4%) / 6.10 (257.3%)	3.80 (152.1%) / 5.30 (218.5%)	3.80 (151.9%) / 5.20 (213.3%)
ErP ENERGY EFFICIENCY CLASS	Heating/Cooling	A+ / A++	A / A				
AIRFLOW (l/s)	Lo-Mi-Hi	167-200-233	200-242-283	242-300-350	242-300-383	383-467-533	467-567-617
PIPE SIZE mm (in)	Gas	9.52 (3/8")	12.7 (1/2")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
	Liquid	6.35 (1/4")	6.35 (1/4")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
EXTERNAL STATIC PRESSURE (Pa)	35-50-70-100-150	35-50-70-100-150	35-50-70-100-150	35-50-70-100-150	35-50-70-100-150	35-50-70-100-150	35-50-70-100-150
SOUND PRESSURE LEVEL (dBA)	Lo-Mi-Hi	24-29-32	27-33-35	26-32-35	26-32-37	31-36-39	35-39-41
SOUND POWER LEVEL (dBA)		54	58	56	58	62	66
DIMENSIONS (mm)	Width x Depth x Height	900 x 732 x 250	900 x 732 x 250	1100 x 732 x 250	1100 x 732 x 250	1400 x 732 x 250	1400 x 732 x 250
WEIGHT (kg)		25	26.5	29.5	29.5	37	38
ELECTRICAL SUPPLY		Fed by Outdoor Unit					
FUSE RATING (BS88) - HRC (A)		6	6	6	6	6	6
INTERCONNECTING CABLE No. Cores		4	4	4	4	4	4
WIRED REMOTE CONTROLLER REFERENCE	PAR-41MAA						

SUZ-M / PUZ-M - OUTDOOR UNITS	SUZ-M35VAR2	SUZ-M50VAR2	SUZ-M60VAR2	SUZ-M71VAR1	PUZ-M100VKA2	PUZ-M125VKA2	PUZ-M140VKA2
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	48 / 48	48 / 49	49 / 51	49 / 51	51 / 54	54 / 56
SOUND POWER LEVEL (dBA)	Cooling	59	64	65	66	70	72
WEIGHT (kg)		35	41	54	56	76	84
DIMENSIONS (mm)	Width x Depth x Height	800 x 285 x 550	800 x 285 x 714	840 x 330 x 880	840 x 330 x 880	1050 x 330 x 981	1050 x 330 x 981
ELECTRICAL SUPPLY		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
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal)	1.025 / 0.923	1.463 / 1.351	1.842 / 1.694	2.105 / 2.028	2.947 / 2.878	3.739 / 4.019
	Heating/Cooling (UK)	0.85 / 0.84	1.24 / 1.19	1.50 / 1.56	1.87 / 1.72	2.35 / 2.47	3.32 / 3.41
STARTING CURRENT (A)		5.0	5.7	7.6	10.0	7.1	2.9
SYSTEM RUNNING CURRENT (A)	Heating/Cooling [MAX]	3.69 / 3.64 [9.7]	5.38 / 5.18 [14.9]	6.54 / 6.78 [16.7]	8.15 / 7.47 [16.7]	10.23 / 10.75 [22.3]	14.43 / 14.81 [27.8]
FUSE RATING (BS88) - HRC (A)		16	20	20	20	32	32
MAINS CABLE No. Cores		3	3	3	3	3	3
MAX PIPE LENGTH (m)		20	30	30	30	55	65
MAX HEIGHT DIFFERENCE (m)		12	30	30	30	30	30
CHARGE REFRIGERANT (KG) / CO ₂ EQUIVALENT (T)	R32 (GWP 675)	0.90 / 0.61 (7m)	1.20 / 0.81 (7m)	1.25 / 0.84 (7m)	1.45 / 0.98 (7m)	3.10 / 2.09 (30m)	3.60 / 2.43 (30m)
MAX ADDITIONAL REFRIGERANT (KG) / CO ₂ EQUIVALENT (T)	R32 (GWP 675)	1.16 / 0.78	1.66 / 1.12	1.71 / 1.15	2.37 / 1.80	4.10 / 2.77	5.00 / 3.38

Note: No duty/standby operation on SUZ-M35/50/60/71VAR2/1.

Accessories

Indoor Units

MAC-100FT-E

Plasma Quad Connect air purifying device

PAC-HA31PAR

Plasma Quad Connect metal fitment

Outdoor Units

MAC-881SG

Air outlet guide for SUZ-M35VAR2

MAC-882SG

Air outlet guide for SUZ-M50VAR2

MAC-886SG

Air outlet guide for SUZ-M60VAR2 / SUZ-M71VAR1

PAC-SH96SG

Air outlet guide for PUZ-M100-140VKA2

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE41TS-E

Remote sensor

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB=Premium Finish)

PAR-41MAA

Standard wired remote controller

MAC-334IF-E

Interface for M-NET, MA remote controller
(PAR-41MAA / PAR-CT01MAA),
on/off input and run/fault output

MAC-497IF-E

Interface for MA remote controller
(PAR-41MAA / PAR-CT01MAA)

MAC-587IF-E

Interface for connection to Wi-Fi MELCloud service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

Retail control and input / output interface

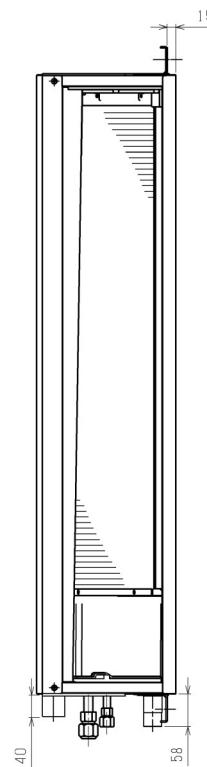
PAC-SJ95MA

M-NET adaptor for size 100 to 140

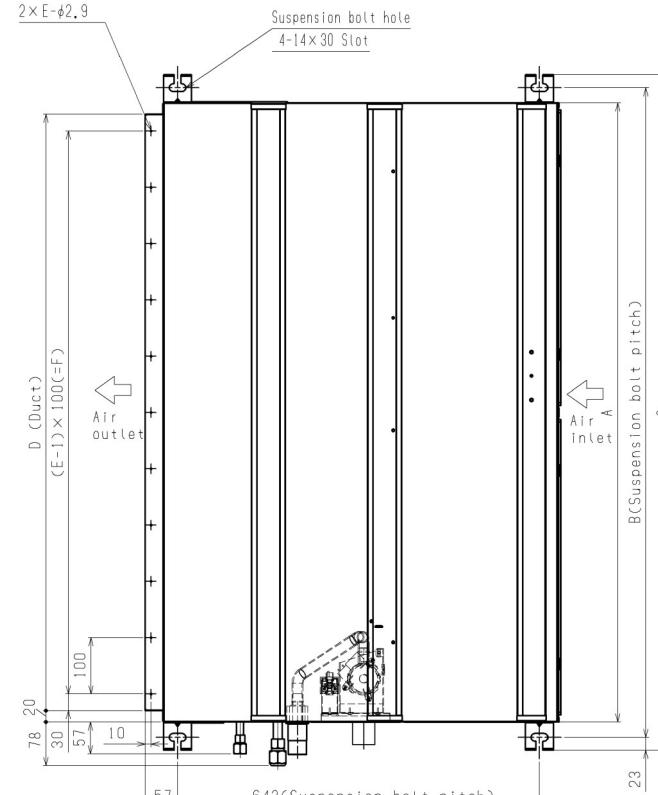
Product Dimensions

PEAD-M35/50/60/71/100/125/140JA2

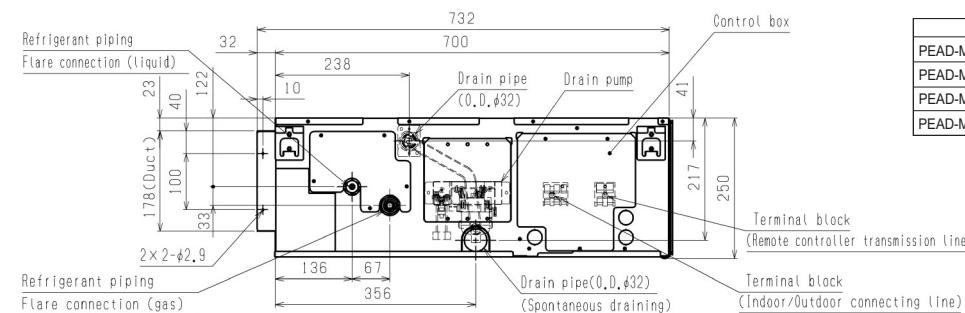
Front View



Upper View



Side View



Model	A	B	C	D	E	F
PEAD-M35,50JA2	900	954	1000	860	9	800
PEAD-M60,71JA2	1100	1154	1200	1060	11	1000
PEAD-M100,125JA2	1400	1454	1500	1360	14	1300
PEAD-M140JA2	1600	1654	1700	1560	16	1500

Note: Please see page 1.3.66 for the full range of accessories.

PEAD-M R32 Ceiling Concealed Ducted System

Standard Inverter Heat Pump (Three Phase)



The cost effective **PEAD-M Standard Inverter** range is a ceiling concealed ducted system that blends a host of outstanding features with an unobtrusive design (only 250mm height) for easy installation and maintenance. Offering advanced control options and extended pipe runs, the units also come with a wide range of external static pressure settings, making this range an extremely flexible solution for applications such as light commercial, schools and warehousing.

Key Features & Benefits

- Increased comfort levels through advanced airflow and smart defrost features
- PAR-41MAA controller allows effective energy monitoring
- Improved efficiency through new fan motor
- Drain pump included as standard
- Compatible with Plasma Quad Connect - an innovative, bolt-on air purifying device which neutralises viruses, bacteria, allergens, PM2.5, mould and dust. For more information, please refer to page 1.1.7

R32

PEAD-M - INDOOR UNITS		PEAD-M100JA2	PEAD-M125JA2	PEAD-M140JA2
CAPACITY (kW)	Heating (nominal) Cooling (nominal) Heating (UK) Cooling (UK)	11.2 (2.8-12.5) 9.5 (4.0-10.6) 9.63 (2.41-10.75) 8.65 (3.64-9.65)	13.5 (4.1-15.0) 12.1 (6.0-13.0) 11.61 (3.53-12.90) 11.01 (5.46-11.83)	15.0 (4.2-15.8) 13.4 (6.1-14.1) 12.90 (3.61-13.59) 12.19 (5.55-12.83)
SHF (nominal)	0.82	0.78	0.77	0.77
COP / EER (nominal)	3.80 / 3.30	3.61 / 3.01	3.61 / 2.81	3.61 / 2.81
SCOP (nsh) / SEER (nsc) (BS EN14825)	4.10 (161.4%) / 6.10 (257.3%)	3.80 (152.1%) / 5.30 (218.5%)	3.80 (151.9%) / 5.20 (213.3%)	3.80 (151.9%) / 5.20 (213.3%)
ErP ENERGY EFFICIENCY CLASS	Heating/Cooling	A+ / A++	A / A	A / A
AIRFLOW (l/s)	Lo-Mi-Hi	383-467-533	467-567-617	492-592-667
PIPE SIZE mm (in)	Gas Liquid	15.88 (5/8") 9.52 (3/8")	15.88 (5/8") 9.52 (3/8")	15.88 (5/8") 9.52 (3/8")
EXTERNAL STATIC PRESSURE (Pa)	35-50-70-100-150		35-50-70-100-150	35-50-70-100-150
SOUND PRESSURE LEVEL (dBA)	Lo-Mi-Hi	31-36-39	35-39-41	34-38-41
SOUND POWER LEVEL (dBA)	62		66	66
DIMENSIONS (mm)	Width x Depth x Height	1400 x 732 x 250	1400 x 732 x 250	1600 x 732 x 250
WEIGHT (kg)	37		38	42
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
WIRED REMOTE CONTROLLER REFERENCE	PAR-41MAA		PAR-41MAA	PAR-41MAA

PUZ-M - OUTDOOR UNITS		PUZ-M100YKA2	③ PUZ-M125YKA2	③ PUZ-M140YKA2
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	51 / 54	54 / 56	55 / 57
SOUND POWER LEVEL (dBA)	Cooling	70	72	73
WEIGHT (kg)	78		85	85
DIMENSIONS (mm)	Width x Depth x Height	1050 x 330 x 981	1050 x 330 x 981	1050 x 330 x 981
ELECTRICAL SUPPLY	380-415v, 50Hz		380-415v, 50Hz	380-415v, 50Hz
PHASE	Three		Three	Three
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal) Heating/Cooling (UK)	2.947 / 2.878 2.35 / 2.47	3.739 / 4.019 3.32 / 3.41	4.155 / 4.768 3.69 / 4.05
STARTING CURRENT (A)	3.5		4.9	4.9
SYSTEM RUNNING CURRENT (A)	Heating/Cooling [MAX]	5.88 / 6.18 [13.8]	8.30 / 8.52 [12.8]	9.23 / 10.13 [12.9]
FUSE RATING (BS88) - HRC (A)	16		16	16
MAINS CABLE No. Cores	5		5	5
MAX PIPE LENGTH (m)	55		65	65
MAX HEIGHT DIFFERENCE (m)	30		30	30
CHARGE REFRIGERANT (KG) / CO ₂ EQUIVALENT (T)	R32 (GWP 675) - 30m		3.60 / 2.43	3.60 / 2.43
MAX ADDITIONAL REFRIGERANT (KG) / CO ₂ EQUIVALENT (T)	R32 (GWP 675)		5.00 / 3.38	5.00 / 3.38

③ Three Phase

Accessories

Indoor Units

MAC-100FT-E

Plasma Quad Connect air purifying device

PAC-HA31PAR

Plasma Quad Connect metal fitment

Outdoor Units

PAC-SH96SG

Air outlet guide for PUZ-M100-140YKA2

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE41TS-E

Remote sensor

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB=Premium Finish)

PAR-41MAA

Standard wired remote controller

MAC-587IF-E

Interface for connection to Wi-Fi MELCloud service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

Retail control and input / output interface

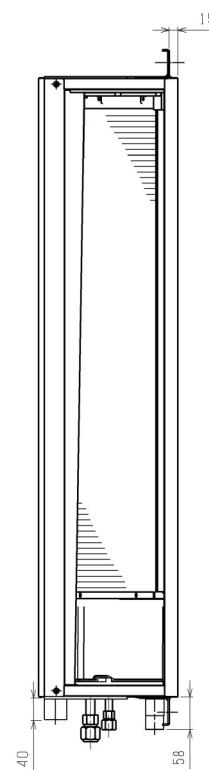
PAC-SJ95MA

M-NET adaptor for size 100 to 140

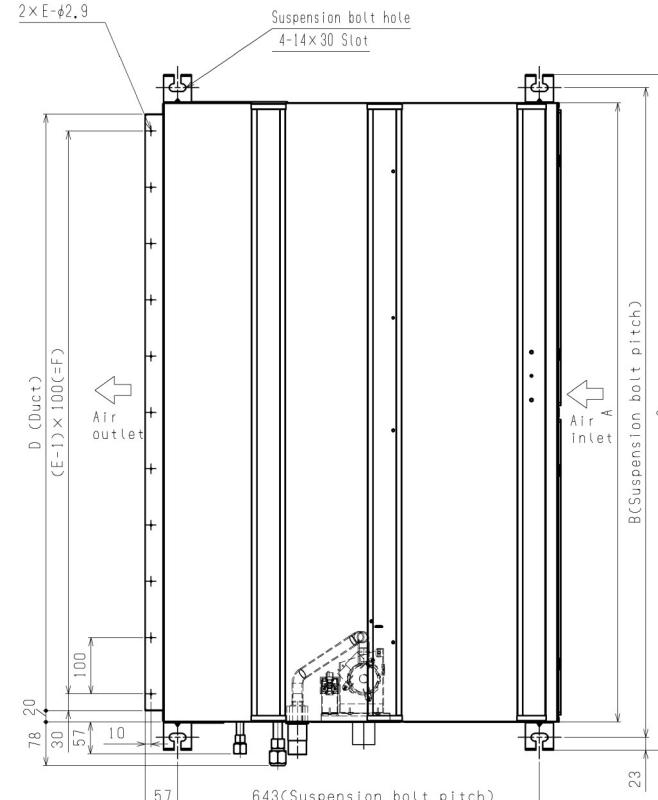
Product Dimensions

PEAD-M100/125/140JA2

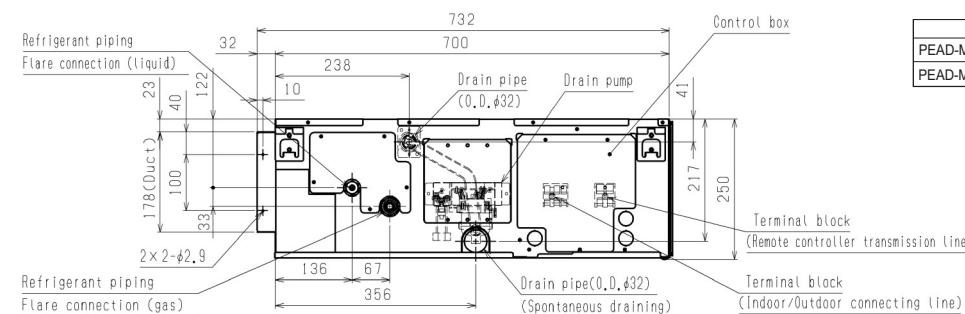
Front View



Upper View



Side View



Model	A	B	C	D	E	F
PEAD-M100,125JA2	1400	1454	1500	1360	14	1300
PEAD-M140JA2	1600	1654	1700	1560	16	1500

Note: Please see page 1.3.66 for the full range of accessories.

PEA-M R32

Large Capacity

Ceiling Concealed

Ducted System

Power Inverter Heat Pump
(Three Phase)



The **PEA-M Power Inverter** large capacity ducted system offers high levels of design flexibility and energy efficiency for larger scale heating and cooling applications. The unique design allows the fan and coil sections to be split, facilitating installation where ceiling void space is limited. Working with extended lengths of ductwork through a 250Pa fan setting, the system is ideal for warehouse, atria and large retail applications.

Key Features & Benefits

- 100m pipe run, increasing application capability
- Full heating capacity down to -3°C
- Unit can be separated into two parts, allowing the coil section to be installed into a limited roof space
- PAR-41MAA controller enables effective energy consumption monitoring
- 'Backup and Rotate' feature reduces load on individual units and prolongs product life (requires PAR-41MAA controller)
- Ultimate ductwork flexibility through 5 static pressure settings up to 250Pa
- Pre-filter included as standard

R32

PEA-M - INDOOR UNITS	PEA-M200LA2	PEA-M250LA2	
CAPACITY (kW)	Heating (nominal) Cooling (nominal) Heating (UK) Cooling (UK)	22.4 (7.1-25.0) 19.0 (9.2-22.4) 16.8 (5.3-18.8) 16.5 (8.0-19.5)	27.0 (7.3-31.0) 22.0 (9.9-27.0) 20.3 (5.5-23.3) 19.1 (8.6-23.5)
SHF (nominal)		0.80	0.79
COP / EER (nominal)		3.50 / 3.30	3.40 / 3.05
SCOP (nsh) / SEER (nsc) (BS EN14825)		3.6 (141.6%) / 5.7 (232.2%)	3.5 (139.7%) / 5.3 (213.7%)
AIRFLOW (l/s)	Lo-Mi-Hi Gas Liquid	700-850-1000 28.58 (1 1/8") 9.52 (3/8")	833-1016-1200 28.58 (1 1/8") 12.7 (1/2")
PIPE SIZE mm (in)			
EXTERNAL STATIC PRESSURE (Pa)		75 / 100 / 150 / 200 / 250	75 / 100 / 150 / 200 / 250
SOUND PRESSURE LEVEL (dBA) (60Pa)	Lo-Mi-Hi	34.5-39-43	37.5-42-46
SOUND POWER LEVEL (dBA) (60Pa)	Lo-Mi-Hi	62-63-64	63-65-66
DIMENSIONS (mm)	Width x Depth x Height	1370 x 1120 x 470	1370 x 1120 x 470
WEIGHT (kg)		88	88
ELECTRICAL SUPPLY		220-240v 50Hz	220-240v 50Hz
PHASE		Single	Single
POWER INPUT (kW)		0.32	0.48
RUNNING CURRENT (A) [MAX]		4.8	4.8
FUSE RATING (BS88) - HRC (A)		6	6
MAINS CABLE No. Cores		3	3
INTERCONNECTING CABLE No. Cores		3	3
WIRED REMOTE CONTROLLER REFERENCE		PAR-41MAA	PAR-41MAA

PUZ-ZM - OUTDOOR UNITS	PUZ-ZM200YKA2	PUZ-ZM250YKA2	
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	62 / 59	62 / 59
WEIGHT (kg)		137	138
DIMENSIONS (mm)	Width x Depth x Height	1050 x 330+40 x 1338	1050 x 330+40 x 1338
ELECTRICAL SUPPLY		380-415v, 50Hz	380-415v, 50Hz
PHASE		Three	Three
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal) Heating/Cooling (UK)	6.40 / 5.76 5.18 / 4.89	7.94 / 7.21 6.43 / 6.13
STARTING CURRENT (A)		5.0	5.0
RUNNING CURRENT (A)	Heating/Cooling [MAX]	9.57 / 8.58 [22.5]	13.3 / 11.6 [22.5]
FUSE RATING (BS88) - HRC (A)		25	25
MAINS CABLE No. Cores		5	5
MAX PIPE LENGTH (m)		100	100
MAX HEIGHT DIFFERENCE (m)		30	30
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675) - 30m	6.30 / 4.25	6.80 / 4.59
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675)	2.90 / 1.96	2.40 / 1.62

③ Three Phase

Accessories

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE41TS-E

Remote sensor

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB=Premium Finish)

PAR-41MAA

Standard wired remote controller

MAC-587IF-E

Interface for connection to Wi-Fi MELCloud service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

Retail control and input / output interface

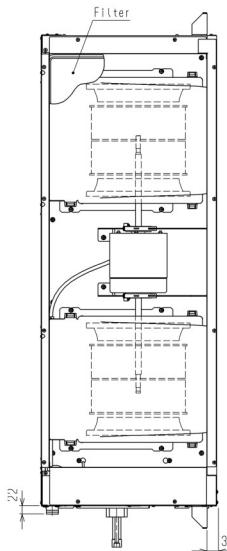
PAC-SJ95MA

M-NET adaptor for size 200 to 250

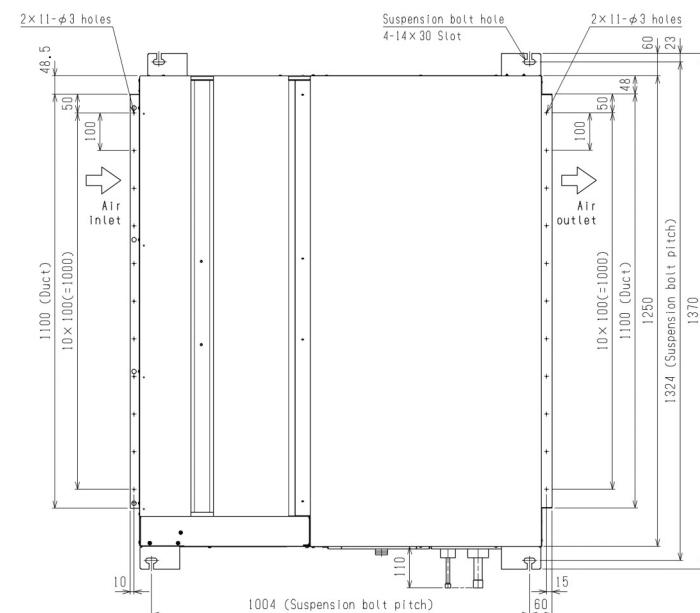
Product Dimensions

PEA-M200/250LA2

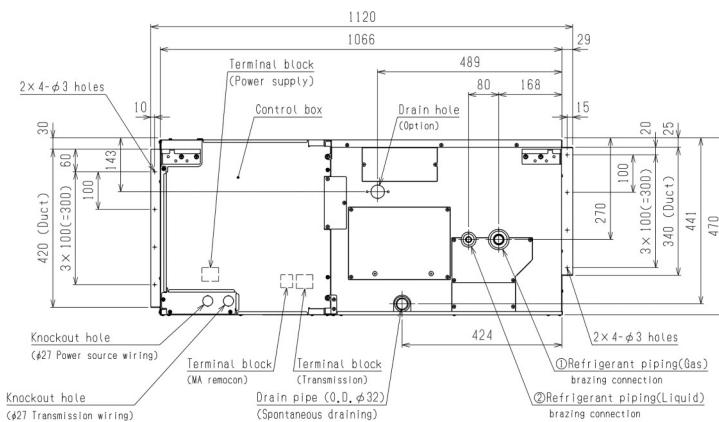
Front View



Upper View



Side View



Note: Please see page 1.3.66 for the full range of accessories.

PEA-M R32 Large Capacity Ceiling Concealed Ducted System

**Standard Inverter Heat Pump
(Three Phase)**



The cost effective **PEA-M Standard Inverter** large capacity ducted system offers high levels of design flexibility and energy efficiency for larger scale heating and cooling applications. The unique design allows the fan and coil sections to be split, facilitating installation where ceiling void space is limited. Working with extended lengths of ductwork through a 250Pa fan setting, the system is ideal for warehouse, atria and large retail applications.

Key Features & Benefits

- Unit can be separated into two parts, allowing the coil section to be installed into a limited roof space
- Advanced airflow and smart defrost features to maximise comfort levels
- PAR-41MAA controller enables effective energy consumption monitoring
- 'Backup and Rotate' feature reduces load on individual units and prolongs product life (requires PAR-41MAA controller)
- Ultimate ductwork flexibility through 5 static pressure settings up to 250Pa
- Pre-filter included as standard



PEA-M - INDOOR UNITS	PEA-M200LA2	PEA-M250LA2	
CAPACITY (kW)	Heating (nominal) Cooling (nominal) Heating (UK) Cooling (UK)	22.4 (6.8-25.0) 19.0 (9.2-22.4) 16.8 (5.1-18.8) 16.5 (8.0-19.5)	27.0 (7.3-31.0) 22.0 (9.9-27.0) 20.3 (5.5-23.3) 19.1 (8.6-23.5)
SHF (nominal)		0.80	0.79
COP / EER (nominal)		3.40 / 3.12	3.30 / 3.00
SCOP (nsh) / SEER (nsc) (BS EN14825)		3.6 (141.2%) / 5.4 (216.3%)	3.5 (139.2%) / 5.3 (212.7%)
AIRFLOW (l/s)	Lo-Mi-Hi Gas Liquid	700-850-1000 28.58 (1 1/8") 9.52 (3/8")	833-1016-1200 28.58 (1 1/8") 12.7 (1/2")
PIPE SIZE mm (in)			
EXTERNAL STATIC PRESSURE (Pa)		75 / 100 / 150 / 200 / 250	75 / 100 / 150 / 200 / 250
SOUND PRESSURE LEVEL (dBA) (60Pa)	Lo-Mi-Hi	34.5-39-43	37.5-42-46
SOUND POWER LEVEL (dBA) (60Pa)	Lo-Mi-Hi	62-63-64	63-65-66
DIMENSIONS (mm)	Width x Depth x Height	1370 x 1120 x 470	1370 x 1120 x 470
WEIGHT (kg)		88	88
ELECTRICAL SUPPLY		220-240v 50Hz	220-240v 50Hz
PHASE		Single	Single
POWER INPUT (kW)		0.32	0.48
RUNNING CURRENT (A) [MAX]		4.8	4.8
FUSE RATING (BS88) - HRC (A)		6	6
MAINS CABLE No. Cores		3	3
INTERCONNECTING CABLE No. Cores		3	3
WIRED REMOTE CONTROLLER REFERENCE		PAR-41MAA	PAR-41MAA

PUZ-M - OUTDOOR UNITS	PUZ-M200YKA2	PUZ-M250YKA2	
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	60 / 58	62 / 59
WEIGHT (kg)		129	138
DIMENSIONS (mm)	Width x Depth x Height	1050 x 330+40 x 1338	1050 x 330+40 x 1338
ELECTRICAL SUPPLY		380-415v, 50Hz	380-415v, 50Hz
PHASE		Three	Three
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal) Heating/Cooling (UK)	6.59 / 6.09 5.34 / 5.18	8.18 / 7.33 6.63 / 6.23
STARTING CURRENT (A)		5.0	5.0
RUNNING CURRENT (A)	Heating/Cooling [MAX]	10.08 / 9.62 [22.5]	12.18 / 11.22 [22.5]
FUSE RATING (BS88) - HRC (A)		25	25
MAINS CABLE No. Cores		5	5
MAX PIPE LENGTH (m)		70	70
MAX HEIGHT DIFFERENCE (m)		30	30
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675) - 30m	5.60 / 3.78	6.80 / 4.59
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675)	1.60 / 1.08	2.40 / 1.62

③ Three Phase

Accessories

Outdoor Units

PAC-SH96SG

Air outlet guide for PUZ-M200-250YKA2

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE41TS-E

Remote sensor

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB=Premium Finish)

PAR-41MAA

Standard wired remote controller

MAC-587IF-E

Interface for connection to Wi-Fi MELCloud service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

Retail control and input / output interface

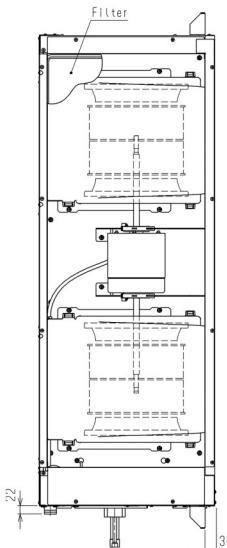
PAC-SJ95MA

M-NET adaptor for size 200 to 250

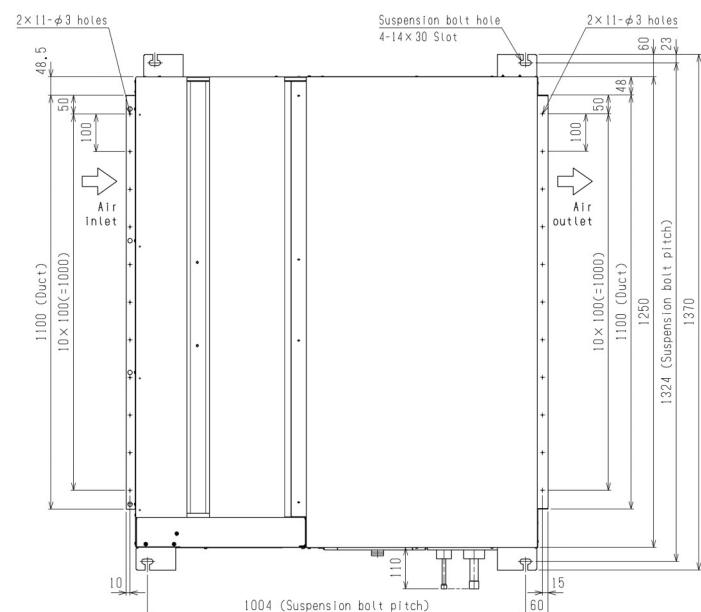
Product Dimensions

PEA-M200/250LA2

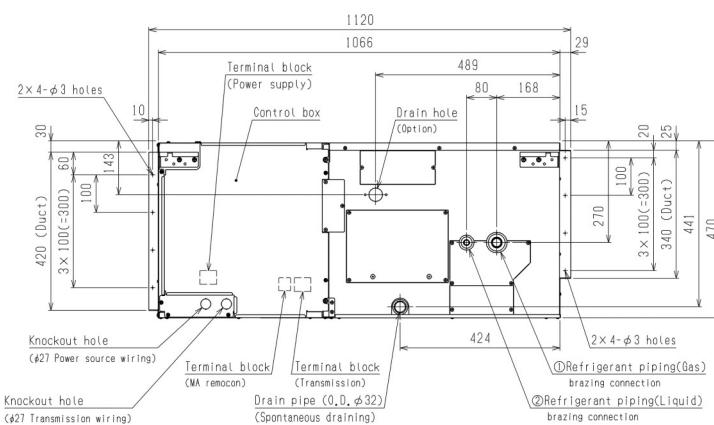
Front View



Upper View



Side View



Note: Please see page 1.3.66 for the full range of accessories.

SEZ-M R32 Ceiling Concealed Ducted System

Standard Inverter Heat Pump (Single Phase)



The **SEZ-M Standard Inverter** ceiling concealed ducted system is designed for offices, restaurants and retail premises where low noise levels are required. Its low unit height and lightweight design help to make installation easier and more convenient.

Key Features & Benefits

- Compact, low unit height of 200mm for unobtrusive installation
- Low static pressure level, resulting in noise reduction
- PAR-41MAA controller allows effective energy consumption monitoring
- Compatible with Plasma Quad Connect - an innovative, bolt-on air purifying device which neutralises viruses, bacteria, allergens, PM2.5, mould and dust. For more information, please refer to page 1.1.7

R32

SEZ-M - INDOOR UNITS	SEZ-M25DA2	SEZ-M35DA2	SEZ-M50DA2	SEZ-M60DA2	SEZ-M71DA2
CAPACITY (kW)	Heating (nominal) 2.9 (1.3-4.2) Cooling (nominal) 2.5 (1.4-3.2) Heating (UK) 2.47 (1.11-3.57) Cooling (UK) 2.30 (1.29-2.94)	4.2 (1.1-5.0) 3.5 (0.7-3.9) 3.57 (0.94-4.25) 3.22 (0.64-3.59)	6.0 (1.5-7.2) 5.0 (1.1-5.6) 5.10 (1.28-6.12) 4.60 (1.01-5.15)	7.4 (1.6-8.0) 6.1 (1.6-6.3) 6.29 (1.36-6.80) 5.61 (1.47-5.80)	8.0 (2.0-10.2) 7.1 (2.2-8.1) 6.80 (1.70-8.67) 6.53 (2.02-7.45)
SHF (nominal)	0.78	0.76	0.76	0.79	0.74
COP / EER (nominal)	3.61 / 3.50	3.90 / 3.50	3.71 / 3.23	3.61 / 3.30	3.50 / 3.30
SCOP / SEER (BS EN14825)	3.80 / 5.30	4.10 / 5.90	4.00 / 6.00	4.20 / 5.50	3.90 / 5.50
ErP ENERGY EFFICIENCY CLASS Heating/Cooling	A / A	A+ / A+	A+ / A+	A+ / A	A / A
AIRFLOW (l/s)	Lo-Mi-Hi 100-117-150	117-150-183	167-217-250	200-250-300	200-267-333
PIPE SIZE mm (in)	Gas 9.52 (3/8") Liquid 6.35 (1/4")	9.52 (3/8") 6.35 (1/4")	12.7 (1/2") 6.35 (1/4")	15.88 (5/8") 6.35 (1/4")	15.88 (5/8") 9.52 (3/8")
EXTERNAL STATIC PRESSURE (Pa)	5-15-35-50	5-15-35-50	5-15-35-50	5-15-35-50	5-15-35-50
SOUND PRESSURE LEVEL (dBA) Lo-Mi-Hi	22-25-29	23-28-33	29-33-36	29-33-37	29-34-39
SOUND POWER LEVEL (dBA)	50	53	57	58	60
DIMENSIONS (mm)	Width x Depth x Height 790 x 700 x 200	990 x 700 x 200	990 x 700 x 200	1190 x 700 x 200	1190 x 700 x 200
WEIGHT (kg)	18	21	23	27	27
ELECTRICAL SUPPLY	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit
FUSE RATING (BS88) - HRC (A)	6	6	6	6	6
INTERCONNECTING CABLE No. Cores	4	4	4	4	4
WIRED REMOTE CONTROLLER REFERENCE	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA

SUZ-M - OUTDOOR UNITS	SUZ-M25VAR2	SUZ-M35VAR2	SUZ-M50VAR2	SUZ-M60VAR2	SUZ-M71VAR1
SYSTEM POWER Heating/Cooling (nominal)	0.80 / 0.71	1.07 / 1.00	1.61 / 1.54	2.04 / 1.84	2.28 / 2.15
INPUT (kW) Heating/Cooling (UK)	0.68 / 0.61	0.91 / 0.86	1.37 / 1.32	1.73 / 1.58	1.94 / 1.85
STARTING CURRENT (A)	3.1	5.0	5.7	7.6	10.0
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]	9.3 / 8.4 [14.8]	9.5 / 9.1 [14.8]
FUSE RATING (BS88) - HRC (A)	10	10	20	20	20
MAINS CABLE No. Cores	3	3	3	3	3
MAX PIPE LENGTH (m)	20	20	30	30	30
MAX HEIGHT DIFFERENCE (m)	12	12	30	30	30
CHARGE REFRIGERANT (KG) / CO ₂ EQUIVALENT (T)	R32 (GWP 675) - 7m 0.65 / 0.44	0.90 / 0.61	1.20 / 0.81	1.25 / 0.84	1.45 / 0.98
MAX ADDITIONAL REFRIGERANT (KG) / CO ₂ EQUIVALENT (T)	R32 (GWP 675) 0.91 / 0.61	1.16 / 0.78	1.66 / 1.12	1.71 / 1.15	2.37 / 1.60

Accessories

Indoor Units

MAC-100FT-E

Plasma Quad Connect air purifying device

PAC-HA31PAR

Plasma Quad Connect metal fitment

Outdoor Units

MAC-881SG

Air outlet guide for SUZ-M25-35VAR2

MAC-882SG

Air outlet guide for SUZ-M50VAR2

MAC-886SG

Air outlet guide for SUZ-M60VAR2 / SUZ-M71VAR1

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE41TS-E

Remote sensor

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB=Premium Finish)

PAR-41MAA

Standard wired remote controller

MAC-334IF-E

Interface for M-NET, MA remote controller
(PAR-41MAA / PAR-CT01MAA),
on/off input and run/fault output

MAC-497IF-E

Interface for MA remote controller
(PAR-41MAA / PAR-CT01MAA)

MAC-587IF-E

Interface for connection to Wi-Fi MELCloud service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

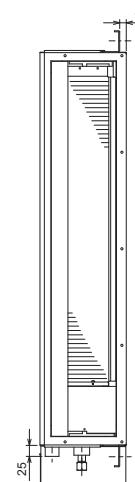
MELCORETAIL MINI

Retail control and input / output interface

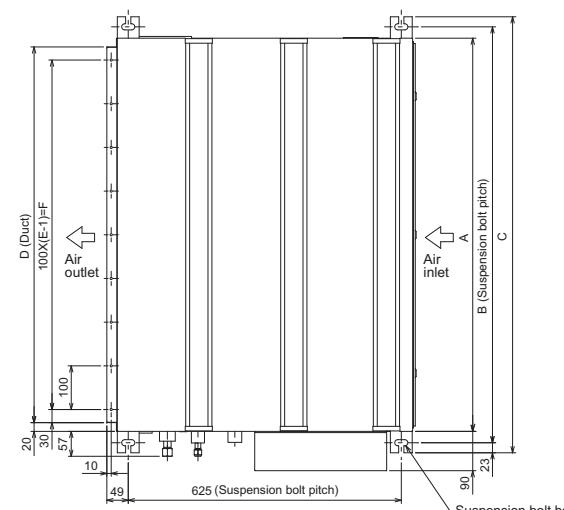
Product Dimensions

SEZ-M25/35/50/60/71DA2

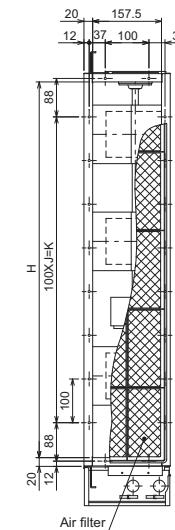
Front View



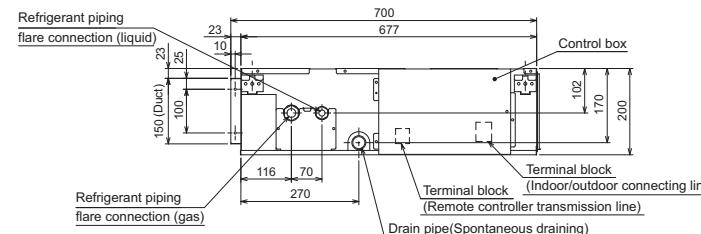
Upper View



Back View



Side View



Model	A	B	C	D	E	F	G	H	J	K	L
SEZ-M25DA2	700	752	798	660	7	600	800	660	5	500	16
SEZ-M35DA2	900	952	998	860	9	800	1000	860	7	700	20
SEZ-M50DA2	1100	1152	1198	1060	11	1000	1200	1060	9	900	24
SEZ-M60DA2											
SEZ-M71DA2											

Note: Please see page 1.3.66 for the full range of accessories.

PCA-M R32 Ceiling Suspended System

Power Inverter Heat Pump (Single Phase)



The **PCA-M Power Inverter** range is a ceiling suspended system that blends a host of outstanding features with a sophisticated streamlined design. Offering high seasonal efficiency, advanced control options and extended pipe runs, this range is an extremely flexible solution for commercial applications.

Key Features & Benefits

- Increased comfort levels through advanced airflow and smart defrost features
- 100m pipe run (size 100-140), increasing application capability
- Energy monitoring & 14°C set point option as standard; ideal for applications where a specialist ambient condition is required (requires PAR-41MAA controller)
- High / Low ceiling height modes
- Flush to wall installation for concealment of service connections
- Full heating capacity down to -3°C
- 'Backup and rotate' feature to reduce load on individual units and prolong product life (requires PAR-41MAA controller)

R32

PCA-M - INDOOR UNITS	PCA-M50KA2	PCA-M60KA2	PCA-M71KA2	PCA-M100KA2	PCA-M125KA2	PCA-M140KA2
CAPACITY (kW)	Heating (nominal) 5.5 (2.5-6.6) Cooling (nominal) 5.0 (2.3-5.6) Heating (UK) 4.7 (2.15-5.6) Cooling (UK) 4.6 (2.1-5.15)	7.0 (2.8-8.2) 6.1 (2.7-6.7) 5.95 (2.4-6.95) 5.5 (2.5-6.15)	8.0 (3.5-10.2) 7.1 (3.3-8.1) 6.8 (3.0-8.65) 6.55 (3.05-7.45)	11.2 (4.5-14.0) 9.5 (4.9-11.4) 9.5 (3.85-11.9) 9.2 (4.5-10.5)	14.0 (5.0-16.0) 12.5 (5.5-14.0) 11.9 (4.25-13.6) 11.5 (5.05-12.9)	16.0 (5.7-18.0) 13.4 (6.2-15.0) 13.6 (4.85-15.3) 12.9 (5.7-13.8)
SHF (nominal)	0.79	0.81	0.76	0.77	0.72	0.72
COP / EER (nominal)	4.04 / 4.00	4.01 / 4.01	3.71 / 3.88	3.71 / 4.10	3.54 / 3.25	3.61 / 3.40
SCOP (nsh) / SEER (nsc) (BS EN14825)	4.2 / 6.7	4.1 / 6.5	4.2 / 6.7	4.3 / 6.4	4.3 (168.8%) / 6.2 (251.0%)	4.4 (173.5%) / 6.2 (248.9%)
ERP ENERGY EFFICIENCY CLASS	Heating/Cooling A+ / A++	A+ / A++	A+ / A++	A+ / A++	-	-
AIRFLOW (l/s)	Lo-Mi1-Mi2-Hi 167-183-217-250	250-267-283-317	267-283-300-333	367-400-433-467	383-417-450-483	400-433-483-533
PIPE SIZE MM (in)	Gas/Liquid 12.7 (1/2") / 6.35 (1/4")	15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")
SOUND PRESSURE LEVEL (dBA)	Lo-Mi1-Mi2-Hi 32-34-37-40	33-35-37-40	35-37-39-41	37-39-41-43	39-41-43-45	41-43-45-48
SOUND POWER LEVEL (dBA)	60	60	62	63	65	68
DIMENSIONS (mm)	Width x Depth x Height 960 x 680 x 230	1280 x 680 x 230	1280 x 680 x 230	1600 x 680 x 230	1600 x 680 x 230	1600 x 680 x 230
WEIGHT (kg)	26	32	32	37	38	40
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
FUSE RATING (BS88) - HRC (A)	6	6	6	6	6	6
INTERCONNECTING CABLE	No. Cores 4	4	4	4	4	4
WIRED REMOTE CONTROLLER REFERENCE	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA
WIRELESS REMOTE CONTROLLER REFERENCE	PAR-SL94B	PAR-SL94B	PAR-SL94B	PAR-SL94B	PAR-SL94B	PAR-SL94B

PUZ-ZM - OUTDOOR UNITS	PUZ-ZM50VKA2	PUZ-ZM60VHA2	PUZ-ZM71VHA2	PUZ-ZM100VKA2	PUZ-ZM125VKA2	PUZ-ZM140VKA2
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling 46 / 44	49 / 47	49 / 47	51 / 49	52 / 50	52 / 50
SOUND POWER LEVEL (dBA)	Cooling 65	67	67	69	70	70
WEIGHT (kg)	46	67	67	105	105	105
DIMENSIONS (mm)	Width x Depth x Height 809 x 300 x 630	950 x 330 + 25 x 943	950 x 330 + 25 x 943	1050 x 330 + 40 x 1338	1050 x 330 + 40 x 1338	1050 x 330 + 40 x 1338
ELECTRICAL SUPPLY	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
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal) 1.361 / 1.25	1.745 / 1.521	2.156 / 1.829	3.018 / 2.317	3.954 / 3.846	4.432 / 3.941
STARTING CURRENT (A)	4.3	5.3	5.3	10.7	13.2	13.2
SYSTEM RUNNING CURRENT (A)	Heating/Cooling [MAX] 5.95 / 5.37 [13.4]	7.43 / 6.48 [19.4]	9.23 / 7.81 [19.4]	12.97 / 9.97 [27.2]	16.87 / 16.46 [27.3]	18.76 / 16.66 [28.9]
FUSE RATING (BS88) - HRC (A)	16	25	25	32	32	40
MAINS CABLE NO. CORES	3	3	3	3	3	3
MAX PIPE LENGTH (m)	50	55	55	100	100	100
MAX HEIGHT DIFFERENCE (m)	30	30	30	30	30	30
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675) 2.00 / 1.35 (30m)	2.80 / 1.89 (30m)	2.80 / 1.89 (30m)	3.60 / 2.43 (40m)	3.60 / 2.43 (40m)	3.60 / 2.43 (40m)
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675) 0.30 / 0.20	0.80 / 0.54	0.80 / 0.54	2.40 / 1.62	2.40 / 1.62	2.40 / 1.62

Accessories

Indoor Units

PAR-SL94B

Wireless remote controller and adaptor for PCA-M50-140KA2

Outdoor Units

PAC-SJ07SG

Air outlet guide for PUZ-ZM50VKA2

PAC-SG59SG

Air outlet guide for PUZ-ZM60-71VHA2

PAC-SH96SG

Air outlet guide for PUZ-ZM100-140VKA2

PAC-SJ71FM-E

30Pa outdoor fan motor for PUZ-ZM100-140VKA2

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE41TS-E

Remote sensor

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB=Premium Finish)

PAR-41MAA

Standard wired remote controller

MAC-587IF-E

Interface for connection to Wi-Fi MELCloud service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

Retail control and input / output interface

PAC-SK15MA-E

M-NET adaptor for size 50

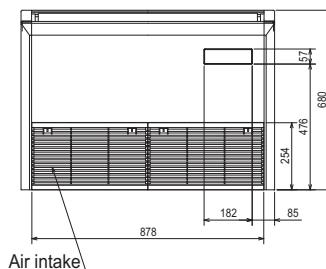
PAC-SJ95MA

M-NET adaptor for size 60 to 140

Product Dimensions

PCA-M50KA2

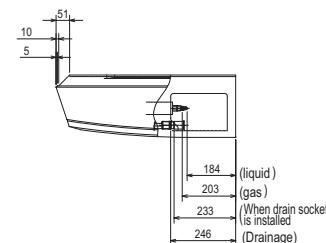
Lower View



Front View



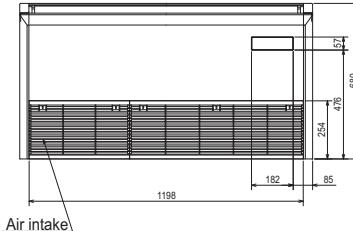
Side View



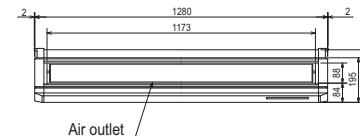
Product Dimensions

PCA-M60/71KA2

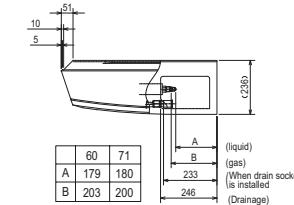
Lower View



Front View



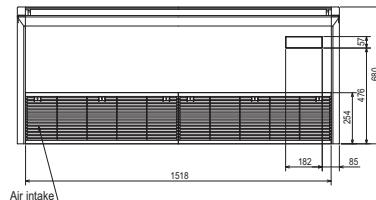
Side View



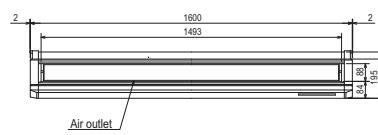
Product Dimensions

PCA-M100/125/140KA2

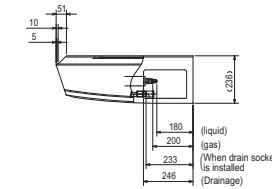
Lower View



Front View



Side View



Note: Please see page 1.3.66 for the full range of accessories.

PCA-M R32 Ceiling Suspended System

Power Inverter Heat Pump (Three Phase)



The **PCA-M Power Inverter** range is a ceiling suspended system that blends a host of outstanding features with a sophisticated streamlined design. Offering high seasonal efficiency, advanced control options and extended pipe runs, this range is an extremely flexible solution for commercial applications.

Key Features & Benefits

- Increased comfort levels through advanced airflow and smart defrost features
- 100m pipe run, increasing application capability
- Energy monitoring & 14°C set point option as standard; ideal for applications where a specialist ambient condition is required (requires PAR-41MAA controller)
- High / Low ceiling height modes
- Flush to wall installation for concealment of service connections
- Full heating capacity down to -3°C
- 'Backup and rotate' feature to reduce load on individual units and prolong product life (requires PAR-41MAA controller)



PCA-M - INDOOR UNITS	PCA-M100KA2	PCA-M125KA2	PCA-M140KA2	
CAPACITY (kW)	Heating (nominal) Cooling (nominal) Heating (UK) Cooling (UK)	11.2 (5.0-14.0) 9.5 (4.9-11.4) 9.5 (3.85-11.9) 9.2 (4.5-10.5)	14.0 (5.0-16.0) 12.5 (5.5-14.0) 11.9 (4.25-13.6) 11.5 (5.05-12.9)	16.0 (5.7-18.0) 13.4 (6.2-15.0) 13.6 (4.85-15.3) 12.9 (5.7-13.8)
SHF (nominal)	0.77	0.72	0.72	
COP / EER (nominal)	3.71 / 4.10	3.54 / 3.25	3.61 / 3.40	
SCOP (ηsh) / SEER (ηsc) (BS EN14825)	4.3 / 6.3	4.3 (168.8%) / 6.1 (249.5%)	4.4 (173.5%) / 6.1 (247.6%)	
ERP ENERGY EFFICIENCY CLASS	Heating/Cooling A++ / A++	-	-	
AIRFLOW (l/s)	Lo-Mi1-Mi2-Hi 367-400-433-467	383-417-450-483	400-433-483-533	
PIPE SIZE MM (in)	Gas/Liquid 15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")	
SOUND PRESSURE LEVEL (dBA)	Lo-Mi1-Mi2-Hi 37-39-41-43	39-41-43-45	41-43-45-48	
SOUND POWER LEVEL (dBA)	63	65	68	
DIMENSIONS (mm)	Width x Depth x Height 1600 x 680 x 230	1600 x 680 x 230	1600 x 680 x 230	
WEIGHT (kg)	37	38	40	
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	
WIRED REMOTE CONTROLLER REFERENCE	PAR-41MAA	PAR-41MAA	PAR-41MAA	
WIRELESS REMOTE CONTROLLER REFERENCE	PAR-SL94B	PAR-SL94B	PAR-SL94B	

PUZ-ZM - OUTDOOR UNITS	PUZ-ZM100YKA2	③	PUZ-ZM125YKA2	③	PUZ-ZM140YKA2	③
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling 51 / 49		52 / 50		52 / 50	
SOUND POWER LEVEL (dBA)	Cooling 69		70		70	
WEIGHT (kg)	111		114		118	
DIMENSIONS (mm)	Width x Depth x Height 1050 x 330 + 40 x 1338		1050 x 330 + 40 x 1338		1050 x 330 + 40 x 1338	
ELECTRICAL SUPPLY	380-415v,50Hz		380-415v,50Hz		380-415v,50Hz	
PHASE	Three		Three		Three	
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal) 3.018 / 2.317		3.954 / 3.846		4.432 / 3.941	
	Heating/Cooling (UK) 2.41 / 1.99		3.51 / 3.26		3.94 / 3.35	
STARTING CURRENT (A)	2.6		3.3		3.3	
SYSTEM RUNNING CURRENT (A)	Heating/Cooling [MAX] 4.34 / 3.31 [8.7]		5.69 / 5.54 [10.3]		6.42 / 5.71 [13.9]	
FUSE RATING (BS88) - HRC (A)	16		16		16	
MAINS CABLE NO. CORES	5		5		5	
MAX PIPE LENGTH (m)	100		100		100	
MAX HEIGHT DIFFERENCE (m)	30		30		30	
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675) - 40m 3.60 / 2.43		3.60 / 2.43		3.60 / 2.43	
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675) 2.40 / 1.62		2.40 / 1.62		2.40 / 1.62	

③ Three Phase

Accessories

Indoor Units

PAR-SL94B

Wireless remote controller and adaptor for PCA-M100-140KA2

Outdoor Units

PAC-SH96SG

Air outlet guide for PUZ-ZM100-140YKA2

PAC-SJ71FM-E

30Pa outdoor fan motor for PUZ-ZM100-140YKA2

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE41TS-E

Remote sensor

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB=Premium Finish)

PAR-41MAA

Standard wired remote controller

MAC-587IF-E

Interface for connection to Wi-Fi MELCloud service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

Retail control and input / output interface

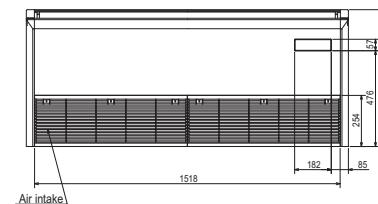
PAC-SJ95MA

M-NET adaptor for size 100 to 140

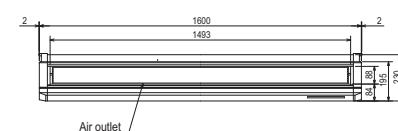
Product Dimensions

PCA-M100/125/140KA2

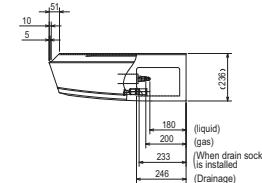
Lower View



Front View



Side View



Note: Please see page 1.3.66 for the full range of accessories.

PCA-M R32 Ceiling Suspended System

Standard Inverter Heat Pump (Single Phase)



The cost effective **PCA-M Standard Inverter** range is a ceiling suspended system that blends a host of outstanding features with a sophisticated streamlined design. Offering advanced control options and quiet operation, this range is an extremely flexible solution for commercial applications.

Key Features & Benefits

- Increased comfort levels through advanced airflow and smart defrost features (size 100-140)
- PAR-41MAA controller allows effective energy consumption monitoring
- 14°C set point option; ideal for applications where a specialist ambient condition is required (size 100-140; requires PAR-41MAA controller)
- High / Low ceiling height modes
- Flush to wall installation for concealment of service connections
- 'Backup and rotate' feature to reduce load on individual units and prolong product life (size 100-140; requires PAR-41MAA controller)

R32

PCA-M - INDOOR UNITS	PCA-M50KA2	PCA-M60KA2	PCA-M71KA2	PCA-M100KA2	PCA-M125KA2	PCA-M140KA2
CAPACITY (kW)	Heating (nominal) 5.0 (1.5-5.6)	7.0 (1.6-8.0) 6.1 (1.6-6.3)	8.0 (2.0-10.2) 7.1 (2.2-8.1)	11.2 (2.8-12.5) 9.5 (4.0-10.6)	13.5 (4.1-15.0) 12.1 (5.7-13.0)	15.0 (4.2-15.8) 13.4 (5.7-14.1)
	Heating (UK) 5.10 (1.28-6.12)	5.95 (1.36-6.80)	6.80 (1.70-8.67)	9.63 (2.41-10.75)	11.61 (3.53-12.90)	12.90 (3.61-13.59)
	Cooling (UK) 4.60 (1.38-5.15)	5.61 (1.47-5.80)	6.53 (1.56-7.45)	8.65 (3.64-6.65)	11.01 (5.19-11.83)	12.19 (5.19-12.83)
SHF (nominal)	0.79	0.81	0.76	0.77	0.72	0.72
COP / EER (nominal)	3.71 / 3.30	4.00 / 3.70	3.61 / 3.60	3.41 / 3.23	3.41 / 3.01	3.50 / 2.50
SCOP (ηsh) / SEER (ηsc) (BS EN14825)	4.10 / 6.00	4.10 / 6.40	4.10 / 6.50	4.10 / 6.00	4.1 (162.7%) / 5.2 (213%)	4.0 (158.7%) / 5.1 (208%)
ErP ENERGY EFFICIENCY CLASS	Heating/Cooling A+ / A+	A+ / A++	A+ / A++	A+ / A+	A+ / A	A+ / A
AIRFLOW (l/s)	Lo-M1-Mi2-Hi 167-183-217-250	250-267-283-317	267-283-300-333	367-400-433-467	383-417-450-483	400-433-483-533
PIPE SIZE mm (in)	Gas/Liquid 12.7 (1/2") / 6.35 (1/4")	15.88 (5/8") / 6.35 (1/4")	15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")
SOUND PRESSURE LEVEL (dBA)	Lo-M1-Mi2-Hi 32-34-37-40	33-35-37-40	35-37-39-41	37-39-41-43	39-41-43-45	41-43-45-48
SOUND POWER LEVEL (dBA)	60	60	62	63	65	68
DIMENSIONS (mm)	Width x Depth x Height 960 x 680 x 230	1280 x 680 x 230	1280 x 680 x 230	1600 x 680 x 230	1600 x 680 x 230	1600 x 680 x 230
WEIGHT (kg)	26	32	32	37	38	40
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
FUSE RATING (BS88) - HRC (A)	6	6	6	6	6	6
INTERCONNECTING CABLE No. Cores	4	4	4	4	4	4
WIRED REMOTE CONTROLLER REFERENCE	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA
WIRELESS REMOTE CONTROLLER REFERENCE	PAR-SL94B	PAR-SL94B	PAR-SL94B	PAR-SL94B	PAR-SL94B	PAR-SL94B

SUZ-M / PUZ-M - OUTDOOR UNITS	SUZ-M50VAR2	SUZ-M60VAR2	SUZ-M71VAR1	PUZ-M100VKA2	PUZ-M125VKA2	PUZ-M140VKA2
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling 48 / 49	49 / 51	49 / 51	51 / 54	54 / 56	55 / 57
SOUND POWER LEVEL (dBA)	Cooling 64	65	66	70	72	73
WEIGHT (kg)	41	54	55	76	84	84
DIMENSIONS (mm)	Width x Depth x Height 800 x 285 x 714	840 x 330 x 880	840 x 330 x 880	1050 x 330 x 981	1050 x 330 x 981	1050 x 330 x 981
ELECTRICAL SUPPLY	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
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal) 1.61 / 1.51	1.75 / 1.64	2.21 / 1.97	3.28 / 2.94	3.95 / 4.01	4.28 / 5.36
	Heating/Cooling (UK) 1.37 / 1.30	1.49 / 1.41	1.88 / 1.69	2.95 / 2.44	3.56 / 3.33	3.85 / 4.45
STARTING CURRENT (A)	5.7	7.6	10.0	7.1	2.9	2.9
SYSTEM RUNNING CURRENT (A)	Heating/Cooling [MAX] 8.0 / 7.1 [13.5]	9.3 / 8.4 [14.8]	9.5 / 9.1 [14.8]	14.2 / 12.6 [20.0]	17.0 / 17.3 [26.5]	18.4 / 23.2 [30.0]
FUSE RATING (BS88) - HRC (A)	20	20	20	32	32	40
MAINS CABLE No. Cores	3	3	3	3	3	3
MAX PIPE LENGTH (m)	30	30	30	55	65	65
MAX HEIGHT DIFFERENCE (m)	30	30	30	30	30	30
CHARGE REFRIGERANT (KG) / CO ₂ EQUIVALENT (T)	R32 (GWP 675)	1.20 / 0.81 (7m)	1.25 / 0.84 (7m)	1.45 / 0.98 (7m)	3.10 / 2.09 (30m)	3.60 / 2.43 (30m)
MAX ADDITIONAL REFRIGERANT (KG) / CO ₂ EQUIVALENT (T)	R32 (GWP 675)	1.66 / 1.12	1.71 / 1.15	2.37 / 1.80	4.10 / 2.77	5.00 / 3.38

Note: Duty/standby not available on SUZ-M50/60/71VAR2/1.

Accessories

Indoor Units

PAR-SL94B

Wireless remote controller and adaptor for PCA-M100-140KA2

Outdoor Units

MAC-882SG

Air outlet guide for SUZ-M50VAR2

MAC-886SG

Air outlet guide for SUZ-M60VAR2 / SUZ-M71VAR1

PAC-SH96SG

Air outlet guide for PUZ-M100-140VKA2

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE41TS-E

Remote sensor

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB=Premium Finish)

PAR-41MAA

Standard wired remote controller

MAC-334IF-E

Interface for M-NET, MA remote controller
(PAR-41MAA / PAR-CT01MAA),
on/off input and run/fault output

MAC-497IF-E

Interface for MA remote controller (PAR-41MAA / PAR-CT01MAA)

MAC-587IF-E

Interface for connection to Wi-Fi MELCloud service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

Retail control and input / output interface

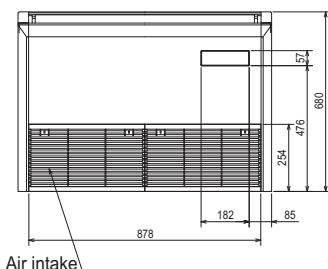
PAC-SJ95MA

M-NET adaptor for size 100 to 140

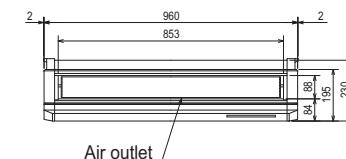
Product Dimensions

PCA-M50KA2

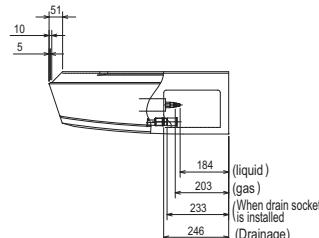
Lower View



Front View



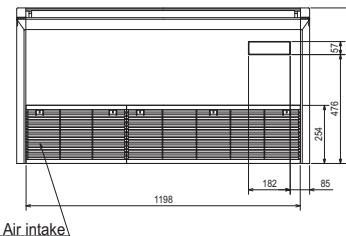
Side View



Product Dimensions

PCA-M60/71KA2

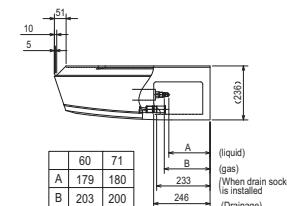
Lower View



Front View



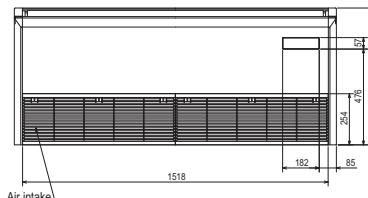
Side View



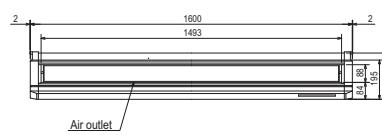
Product Dimensions

PCA-M100/125/140KA2

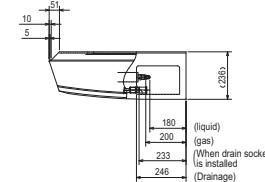
Lower View



Front View



Side View



Note: Please see page 1.3.66 for the full range of accessories.

PCA-M R32 Ceiling Suspended System

Standard Inverter Heat Pump (Three Phase)



The cost effective **PCA-M Standard Inverter** range is a ceiling suspended system that blends a host of outstanding features with a sophisticated streamlined design. Offering advanced control options and quiet operation, this range is an extremely flexible solution for commercial applications.

Key Features & Benefits

- Increased comfort levels through advanced airflow and smart defrost features
- PAR-41MAA controller allows effective energy consumption monitoring
- 14°C set point option; ideal for applications where a specialist ambient condition is required (requires PAR-41MAA controller)
- High / Low ceiling height modes
- Flush to wall installation for concealment of service connections
- 'Backup and rotate' feature to reduce load on individual units and prolong product life (requires PAR-41MAA controller)

R32

PCA-M - INDOOR UNITS	PCA-M100KA2	PCA-M125KA2	PCA-M140KA2
CAPACITY (kW)	Heating (nominal) 11.2 (2.8-12.5) Cooling (nominal) 9.5 (4.0-10.6) Heating (UK) 9.63 (2.41-10.75) Cooling (UK) 8.65 (3.64-9.65)	13.5 (4.1-15.0) 12.1 (5.7-13.0) 11.61 (3.53-12.90) 11.01 (5.19-11.83)	15.0 (4.2-15.8) 13.4 (5.7-14.1) 12.90 (3.61-13.59) 12.19 (5.19-12.83)
SHF (nominal)	0.77	0.72	0.72
COP / EER (nominal)	3.41 / 3.23	3.41 / 3.01	3.50 / 2.50
SCOP (nsh) / SEER (nsc) (BS EN14825)	4.10 / 6.00	4.1 (162.7%) / 5.2 (213%)	4.0 (158.7%) / 5.1 (208%)
ErP ENERGY EFFICIENCY CLASS	Heating/Cooling A+ / A+	A+ / A	A+ / A
AIRFLOW (l/s)	Lo-Mi1-Mi2-Hi 367-400-433-467	383-417-450-483	400-433-483-533
PIPE SIZE mm (in)	Gas/Liquid 15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")
SOUND PRESSURE LEVEL (dBA)	Lo-Mi1-Mi2-Hi 37-39-41-43	39-41-43-45	41-43-45-48
SOUND POWER LEVEL (dBA)	63	65	68
DIMENSIONS (mm)	Width x Depth x Height 1600 x 680 x 230	1600 x 680 x 230	1600 x 680 x 230
WEIGHT (kg)	37	38	40
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
WIRED REMOTE CONTROLLER REFERENCE	PAR-41MAA	PAR-41MAA	PAR-41MAA
WIRELESS REMOTE CONTROLLER REFERENCE	PAR-SL94B	PAR-SL94B	PAR-SL94B

PUZ-M - OUTDOOR UNITS	PUZ-M100YKA2	③ PUZ-M125YKA2	③ PUZ-M140YKA2
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling 51 / 54	54 / 56	55 / 57
SOUND POWER LEVEL (dBA)	Cooling 70	72	73
WEIGHT (kg)	76	84	84
DIMENSIONS (mm)	Width x Depth x Height 1050 x 330 x 981	1050 x 330 x 981	1050 x 330 x 981
ELECTRICAL SUPPLY	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE	Three	Three	Three
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal) 3.28 / 2.94 Heating/Cooling (UK) 2.95 / 2.44	3.95 / 4.01 3.56 / 3.33	4.28 / 5.36 3.85 / 4.45
STARTING CURRENT (A)	3.5	4.9	4.9
SYSTEM RUNNING CURRENT (A)	Heating/Cooling [MAX] 5.1 / 4.5 [11.5]	6.1 / 6.2 [11.5]	6.6 / 8.3 [11.5]
FUSE RATING (BS88) - HRC (A)	16	16	16
MAINS CABLE No. Cores	5	5	5
MAX PIPE LENGTH (m)	55	65	65
MAX HEIGHT DIFFERENCE (m)	30	30	30
CHARGE REFRIGERANT (KG) / CO ₂ EQUIVALENT (T)	R32 (GWP 675) - 30m 3.10 / 2.09	3.60 / 2.43	3.60 / 2.43
MAX ADDITIONAL REFRIGERANT (KG) / CO ₂ EQUIVALENT (T)	R32 (GWP 675) 4.10 / 2.77	5.00 / 3.38	5.00 / 3.38

③ Three Phase

Accessories

Indoor Units

PAR-SL94B

Wireless remote controller and adaptor for PCA-M100-140KA2

Outdoor Units

PAC-SH96SG

Air outlet guide for PUZ-M100-140YKA2

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE41TS-E

Remote sensor

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB=Premium Finish)

PAR-41MAA

Standard wired remote controller

MAC-587IF-E

Interface for connection to Wi-Fi MELCloud service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

Retail control and input / output interface

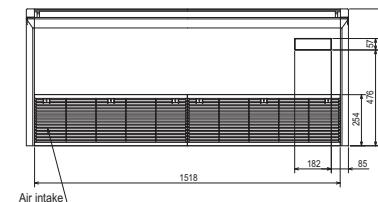
PAC-SJ95MA

M-NET adaptor for size 100 to 140

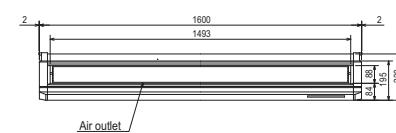
Product Dimensions

PCA-M100/125/140KA2

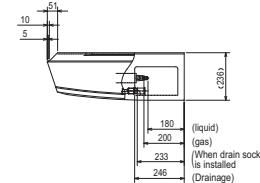
Lower View



Front View



Side View



Note: Please see page 1.3.66 for the full range of accessories.

PCA-M-HA2 R32 Stainless Steel Ceiling Suspended System

Power Inverter Heat Pump (Single Phase)



The **PCA-M-HA2 Power Inverter** is a ceiling suspended system that is ideal for use in commercial kitchen and cafeteria applications. The external casing is made of durable stainless steel that is resistant to oil and smoke, ensuring that the unit can be easily cleaned. Our Power Inverter Heat Pump offers customers high seasonal efficiency, advanced control options and quiet operation, whilst providing greater flexibility and ease of installation.

Key Features & Benefits

- Increased comfort levels through advanced airflow and smart defrost features
- Energy monitoring & 14°C set point option as standard; ideal for applications where a specialist ambient condition is required (requires PAR-41MAA controller)
- 'Backup and rotate' feature to reduce load on individual units and prolong product life (requires PAR-41MAA controller)
- Easy maintenance and cleaning - fan casing can be separated into different sections and pipe connector removed to allow access to drain pan
- High performance oil mist filter for kitchen applications



PCA-M-HA2 - INDOOR UNIT		PCA-M71HA2
CAPACITY (kW)	Heating (nominal) Cooling (nominal) Heating (UK) Cooling (UK)	7.6 (3.5-10.2) 7.1 (3.3-8.1) 6.8 (3.0-8.65) 6.55 (3.05-7.45)
SHF (nominal)		0.74
COP / EER (nominal)		3.50 / 3.51
SCOP / SEER		3.9 / 5.6
ENERGY EFFICIENCY CLASS	Heating/Cooling	A / A+
AIRFLOW (l/s)	Lo-Hi	267-300
PIPE SIZE mm (in)	Gas/Liquid	15.88 (5/8") / 9.52 (3/8")
SOUND PRESSURE LEVEL (dBA)	Lo-Hi	37-39
SOUND POWER LEVEL (dBA)		57
DIMENSIONS (mm)	Width x Depth x Height	1136 x 650 x 280
WEIGHT (kg)		42
ELECTRICAL SUPPLY		Fed by Outdoor Unit
FUSE RATING (BS88) - HRC (A)		6
INTERCONNECTING CABLE No. Cores		4
WIRED REMOTE CONTROLLER REFERENCE		PAR-41MAA
WIRELESS REMOTE CONTROLLER REFERENCE		PAR-SL94B
PUZ-ZM - OUTDOOR UNIT		PUZ-ZM71VHA2
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	49 / 47
SOUND POWER LEVEL (dBA)	Cooling	67
WEIGHT (kg)		67
DIMENSIONS (mm)	Width x Depth x Height	950 x 330 + 30 x 943
ELECTRICAL SUPPLY		220-240v, 50Hz
PHASE		Single
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal) Heating/Cooling (UK)	1.82 / 1.65 1.69 / 1.39
STARTING CURRENT (A)		5.3
SYSTEM RUNNING CURRENT (A)	Heating/Cooling [MAX]	7.5 / 6.7 [19.4]
FUSE RATING (BS88) - HRC (A)		25
MAINS CABLE No. Cores		3
MAX PIPE LENGTH (m)		55
MAX HEIGHT DIFFERENCE (m)		30
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)		2.80 / 1.89
R32 (GWP 675) - 30m		
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)		0.80 / 0.54
R32 (GWP 675)		

Accessories

Indoor Units

PAR-SL94B

Wireless remote controller and adaptor for PCA-M71HA2

PAC-SG38KF

Oil mist filter for PCA-M71HA2 (12 pack)

Outdoor Units

PAC-SG59SG

Air outlet guide for PUZ-ZM71VKA2

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE41TS-E

Remote sensor

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB=Premium Finish)

PAR-41MAA

Standard wired remote controller

MAC-587IF-E

Interface for connection to Wi-Fi MELCloud service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

Retail control and input / output interface

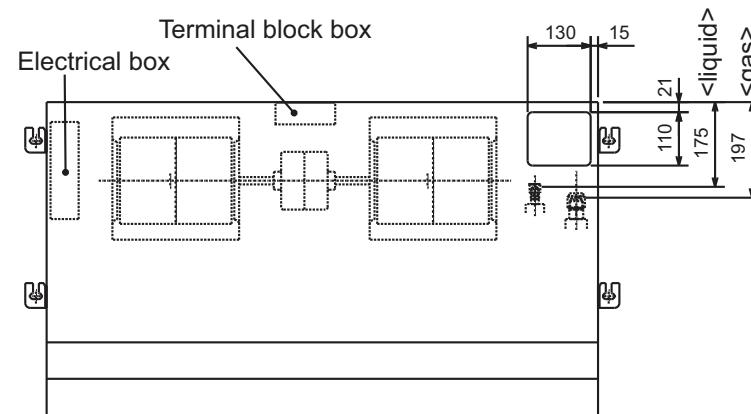
PAC-SJ95MA

M-NET adaptor for size 71

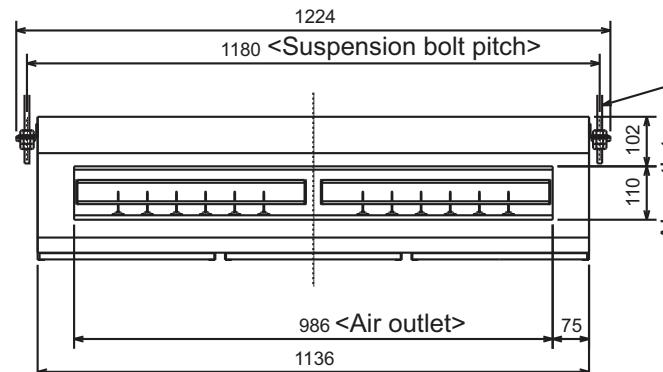
Product Dimensions

PCA-M71HA2

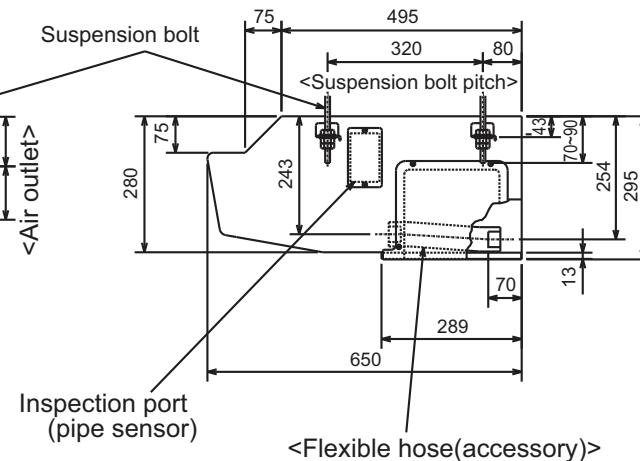
Upper View



Front View



Side View



Note: Please see page 1.3.66 for the full range of accessories.

PSA-M R32 Floor Standing System

Power Inverter Heat Pump



The **PSA-M Power Inverter** range is a floor standing system that blends a host of outstanding features with a sophisticated streamlined design. Offering high seasonal efficiency, advanced control options and quiet operation, this range allows installation where limited ceiling space is available.

Key Features & Benefits

- Built in PAR-41MAA controller allows effective energy consumption monitoring
- Increased comfort levels through advanced airflow and smart defrost features
- 100m pipe run (size 100-140), increasing application capability
- 14°C set point option; ideal for applications where a specialist ambient condition is required
- Quick and easy installation, saving on time and cost
- Compact body and minimal footprint - ideal for applications where space-saving is a requirement

R32

PSA-M - INDOOR UNITS	PSA-M71KA	PSA-M100KA	PSA-M100KA	PSA-M125KA	PSA-M125KA	PSA-M140KA	PSA-M140KA
CAPACITY (kW)							
Heating (nominal)	7.6 (3.5-10.2)	11.2 (4.5-14.0)	11.2 (4.5-14.0)	14.0 (5.0-16.0)	14.0 (5.0-16.0)	16.0 (5.7-18.0)	16.0 (5.7-18.0)
Cooling (nominal)	7.1 (3.3-8.1)	9.5 (4.9-11.4)	9.5 (4.9-11.4)	12.5 (5.5-14.0)	12.5 (5.5-14.0)	13.4 (6.2-15.0)	13.4 (6.2-15.0)
Heating (UK)	6.45 (3.0-8.65)	9.5 (3.85-11.9)	9.5 (3.85-11.9)	11.9 (4.25-13.6)	11.9 (4.25-13.6)	13.6 (4.84-15.3)	13.6 (4.84-15.3)
Cooling (UK)	6.55 (3.05-7.45)	9.2 (4.5-10.5)	9.2 (4.5-10.5)	11.4 (5.05-12.9)	11.4 (5.05-12.9)	12.3 (5.7-13.8)	12.3 (5.7-13.8)
SHF (nominal)	0.79	0.73	0.73	0.72	0.72	0.71	0.71
COP / EER (nominal)	3.25 / 3.76	3.53 / 3.81	3.53 / 3.81	3.11 / 3.16	3.11 / 3.16	3.20 / 3.37	3.20 / 3.37
SCOP (ηsh) / SEER (nsc) (BS EN14825)	4.0 (157.8%) / 6.4 (266.2%)	4.1 (161.3%) / 5.7 (234.6%)	4.1 (161.3%) / 5.6 (232.9%)	3.9 (153.1%) / 5.2 (212.0%)	3.9 (153.0%) / 5.1 (210.9%)	4.0 (158.1%) / 6.1 (249.1%)	4.0 (158.1%) / 6.0 (247.8%)
ErP ENERGY EFFICIENCY CLASS Heating/Cooling	A+ / A++	A+ / A+	A+ / A+	A / A	A / A	A+ / A++	A+ / A+
AIRFLOW (l/s)	Lo-Mi-Hi	333-367-400	417-467-500	417-467-500	417-467-517	417-467-517	417-467-517
PIPE SIZE mm (in)	Gas/Liquid	15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")
SOUND PRESSURE LEVEL (dBA) Lo-Mi-Hi	40-42-44	45-49-51	45-49-51	45-49-51	45-49-51	45-49-51	45-49-51
SOUND POWER LEVEL (dBA)	60	65	65	66	66	66	66
DIMENSIONS (mm)	Width x Depth x Height	600 x 360 x 1900					
WEIGHT (kg)	Unit / Panel	46	46	46	46	48	48
ELECTRICAL SUPPLY	Fed by Outdoor Unit						
FUSE RATING (BS88) - HRC (A)	6	6	6	6	6	6	6
INTERCONNECTING CABLE No. Cores	4	4	4	4	4	4	4
WIRED REMOTE CONTROLLER REFERENCE	PAR-41MAA						

PUZ-ZM - OUTDOOR UNITS	PUZ-ZM71VHA2	PUZ-ZM100VKA2	PUZ-ZM100YKA2 ⁽³⁾	PUZ-ZM125VKA2	PUZ-ZM125YKA2 ⁽³⁾	PUZ-ZM140VKA2	PUZ-ZM140YKA2 ⁽³⁾
SOUND PRESSURE LEVEL (dBA) Heating/Cooling	49 / 47	51 / 49	51 / 49	52 / 50	52 / 50	52 / 50	52 / 50
SOUND POWER LEVEL (dBA) Cooling	67	69	69	70	70	70	70
WEIGHT (kg)	67	105	111	105	114	105	118
DIMENSIONS (mm)	Width x Depth x Height	950 x 330 + 25 x 943	1050 x 330 + 40 x 1338	1050 x 330 + 40 x 1338	1050 x 330 + 40 x 1338	1050 x 330 + 40 x 1338	1050 x 330 + 40 x 1338
ELECTRICAL SUPPLY		220-240v, 50Hz	220-240v, 50Hz	380-415v, 50Hz	220-240v, 50Hz	380-415v, 50Hz	220-240v, 50Hz
PHASE	Single	Single	Three	Single	Three	Single	Three
SYSTEM POWER	Heating/Cooling (nominal)	2.338 / 1.888	3.172 / 2.493	3.172 / 2.493	4.501 / 3.955	4.501 / 3.955	5.000 / 3.976
INPUT (kW)	Heating/Cooling (UK)	2.08 / 1.60	2.53 / 2.14	2.53 / 2.14	4.00 / 3.35	4.00 / 3.35	4.44 / 3.38
STARTING CURRENT (A)		5.3	10.7	2.6	13.2	3.3	13.2
SYSTEM RUNNING CURRENT (A) Heating/Cooling [MAX]	9.05 / 6.96 [19.4]	11.01 / 9.31 [20.7]	6.33 / 5.35 [8.7]	17.37 / 14.58 [27.2]	9.50 / 8.38 [9.7]	19.33 / 14.69 [30.7]	11.11 / 8.45 [12.5]
FUSE RATING (BS88) - HRC (A)	25	25	16	32	16	40	16
MAINS CABLE No. Cores	3	3	5	3	5	3	3
MAX PIPE LENGTH (m)	55	100	100	100	100	100	100
MAX HEIGHT DIFFERENCE (m)	30	30	30	30	30	30	30
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675)	2.80 / 1.89 (30m)	3.60 / 2.43 (40m)	3.60 / 2.43 (40m)	3.60 / 2.43 (40m)	3.60 / 2.43 (40m)	3.60 / 2.43 (40m)
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675)	0.80 / 0.54	2.40 / 1.62	2.40 / 1.62	2.40 / 1.62	2.40 / 1.62	2.40 / 1.62

⁽³⁾ Three Phase Note: Includes built in PAR-41MAA wired remote controller.

Accessories

Outdoor Units

PAC-SG59SG

Air outlet guide for PUZ-ZM71VHA2

PAC-SH96SG

Air outlet guide for PUZ-ZM100-140VKA2/YKA2

PAC-SJ71FM-E

30Pa outdoor fan motor for PUZ-ZM100-140VKA2/YKA2

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE41TS-E

Remote sensor

MAC-587IF-E

Interface for connection to Wi-Fi MELCloud service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

Retail control and input / output interface

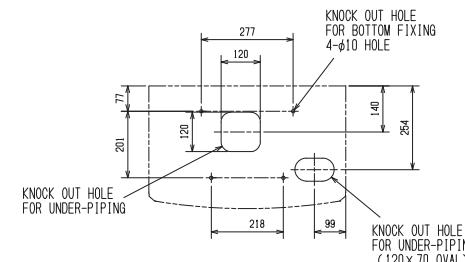
PAC-SJ95MA

M-NET adaptor for size 71 to 140

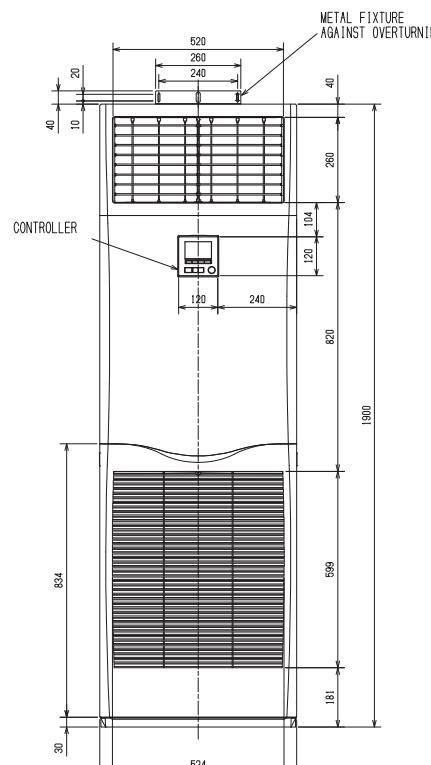
Product Dimensions

PSA-M71/100/125/140KA

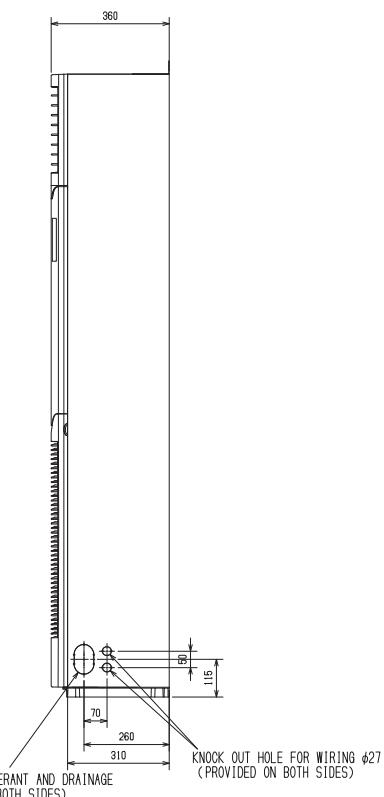
Upper View



Front View



Side View



Note: Please see page 1.3.66 for the full range of accessories.

PSA-M R32 Floor Standing System

Standard Inverter Heat Pump



The cost-effective **PSA-M Standard Inverter** range is a floor standing system that blends a host of outstanding features with a sophisticated streamlined design. Offering advanced control options and quiet operation, this range allows installation where limited ceiling space is available

Key Features & Benefits

- Built in PAR-41MAA controller allows effective energy consumption monitoring
- Increased comfort levels through advanced airflow and smart defrost features
- 14°C set point option; ideal for applications where a specialist ambient condition is required
- Quick and easy installation, saving on time and cost
- Compact body and minimal footprint - ideal for applications where space-saving is a requirement
- In-built leak detection

R32

PSA-M - INDOOR UNITS	PSA-M71KA	PSA-M100KA	PSA-M100KA	PSA-M125KA	PSA-M125KA	PSA-M140KA	PSA-M140KA
CAPACITY (kW)	Heating (nominal) 8.0 (2.1-10.2)	11.2 (2.8-12.5)	11.2 (2.8-12.5)	13.5 (4.8-15.0)	13.5 (4.8-15.0)	15.0 (4.9-15.8)	15.0 (4.9-15.8)
	Cooling (nominal) 7.1 (2.2-8.1)	9.4 (3.7-10.6)	9.4 (3.7-10.6)	12.1 (5.6-13.0)	12.1 (5.6-13.0)	13.6 (5.8-13.7)	13.6 (5.8-13.7)
	Heating (UK) 6.8 (1.8-8.65)	9.5 (2.4-10.65)	9.5 (2.4-10.65)	11.5 (4.1-12.75)	11.5 (4.1-12.75)	12.75 (4.15-13.45)	12.75 (4.15-13.45)
	Cooling (UK) 6.55 (2.0-7.45)	8.65 (3.4-9.75)	8.65 (3.4-9.75)	11.15 (5.15-11.95)	11.15 (5.15-11.95)	12.5 (5.35-12.6)	12.5 (5.35-12.6)
SHF (nominal)	0.79	0.73	0.73	0.72	0.72	0.71	0.71
COP / EER (nominal)	3.25 / 3.76	3.53 / 3.81	3.53 / 3.81	3.11 / 3.16	3.11 / 3.16	3.20 / 3.37	3.20 / 3.37
SCOP (r _{sh}) / SEER (nsc) (BS EN14825)	4.0 (157.8%) / 6.4 (266.2%)	4.1 (161.3%) / 5.7 (234.6%)	4.1 (161.3%) / 5.6 (232.9%)	3.9 (153.1%) / 5.2 (212.0%)	3.9 (153.0%) / 5.1 (210.9%)	4.0 (158.1%) / 6.1 (249.1%)	4.0 (158.1%) / 6.0 (247.8%)
ErP ENERGY EFFICIENCY CLASS Heating/Cooling	A+ / A++	A+ / A+	A+ / A+	A / A	A / A	A+ / A++	A+ / A+
AIRFLOW (l/s)	Lo-Mi-Hi 333-367-400	417-467-500	417-467-500	417-467-517	417-467-517	417-467-517	417-467-517
PIPE SIZE mm (in) Gas/Liquid	15.88 (5/8") / 9.52 (3/8") 15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8") 15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8") 15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8") 15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8") 15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8") 15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8") 15.88 (5/8") / 9.52 (3/8")
SOUND PRESSURE LEVEL (dBA) Lo-Mi-Hi	40-42-44	45-49-51	45-49-51	45-49-51	45-49-51	45-49-51	45-49-51
SOUND POWER LEVEL (dBA)	60	65	65	66	66	66	66
DIMENSIONS (mm)	Width x Depth x Height 600 x 360 x 1900	600 x 360 x 1900	600 x 360 x 1900	600 x 360 x 1900	600 x 360 x 1900	600 x 360 x 1900	600 x 360 x 1900
WEIGHT (kg)	Unit / Panel 46	46	46	46	46	48	48
ELECTRICAL SUPPLY	Fed by Outdoor Unit						
FUSE RATING (BS88) - HRC (A)	6	6	6	6	6	6	6
INTERCONNECTING CABLE No. Cores	4	4	4	4	4	4	4
WIRED REMOTE CONTROLLER REFERENCE	PAR-41MAA						

SUZ-M / PUZ-M - OUTDOOR UNITS	SUZ-M71VAR1	PUZ-M100VKA2	PUZ-M100YKA2 ⁽³⁾	PUZ-M125VKA2	PUZ-M125YKA2 ⁽³⁾	PUZ-M140VKA2	PUZ-M140YKA2 ⁽³⁾
SOUND PRESSURE LEVEL (dBA) Heating/Cooling	49 / 51	51 / 54	51 / 54	54 / 56	54 / 56	55 / 57	55 / 57
SOUND POWER LEVEL (dBA) Cooling	66	70	70	72	72	73	73
WEIGHT (kg)	56	76	78	84	85	84	85
DIMENSIONS (mm)	Width x Depth x Height 840 x 330 x 880	1050 x 330 x 981	1050 x 330 x 981	1050 x 330 x 981	1050 x 330 x 981	1050 x 330 x 981	1050 x 330 x 981
ELECTRICAL SUPPLY	220-240v, 50Hz	220-240v, 50Hz	380-415v, 50Hz	220-240v, 50Hz	380-415v, 50Hz	220-240v, 50Hz	380-415v, 50Hz
PHASE	Single	Single	Three	Single	Three	Single	Three
SYSTEM POWER	Heating/Cooling (nominal) 2.105 / 2.028	3.01 / 2.71	3.01 / 2.71	3.63 / 4.01	3.63 / 4.01	4.39 / 4.96	4.39 / 4.96
INPUT (kW)	Heating/Cooling (UK) 1.87 / 1.72	2.35 / 2.47	2.71 / 2.50	3.27 / 3.33	3.27 / 3.33	3.59 / 4.12	3.59 / 4.12
STARTING CURRENT (A)	9.5	13.0	4.7	17.4	6.3	21.5	7.8
SYSTEM RUNNING CURRENT (A) Heating/Cooling [MAX]	8.15 / 7.47 [16.7]	13.0 / 11.7 [20]	4.7 / 4.2 [11.5]	15.6 / 17.4 [26.5]	5.6 / 6.3 [11.5]	19.0 / 21.5 [30]	6.9 / 7.8 [11.5]
FUSE RATING (BS88) - HRC (A)	20	32	16	32	16	40	16
MAINS CABLE No. Cores	3	3	5	3	5	3	5
MAX PIPE LENGTH (m)	30	55	55	65	65	65	65
MAX HEIGHT DIFFERENCE (m)	30	30	30	30	30	30	30
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675)	1.45 / 0.98 (7m)	3.10 / 2.09 (30m)	3.10 / 2.09 (30m)	3.60 / 2.43 (30m)	3.60 / 2.43 (30m)	3.60 / 2.43 (30m)
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675)	2.37 / 1.80	4.10 / 2.77	4.10 / 2.77	5.00 / 3.38	5.00 / 3.38	5.00 / 3.38

⁽³⁾ Three Phase Note: Includes built in PAR-41MAA wired remote controller.

Accessories

Outdoor Units

MAC-886SG

Air outlet guide for SUZ-M71VAR1

PAC-SH96SG

Air outlet guide for PUZ-M100-140VKA2/YKA2

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE41TS-E

Remote sensor

MAC-587IF-E

Interface for connection to Wi-Fi MELCloud service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

Retail control and input / output interface

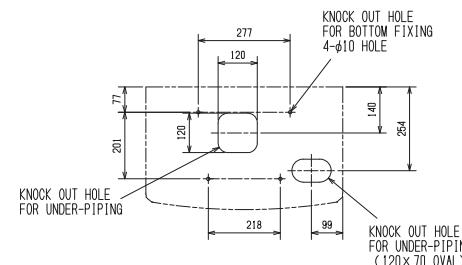
PAC-SJ95MA

M-NET adaptor for size 71 to 140

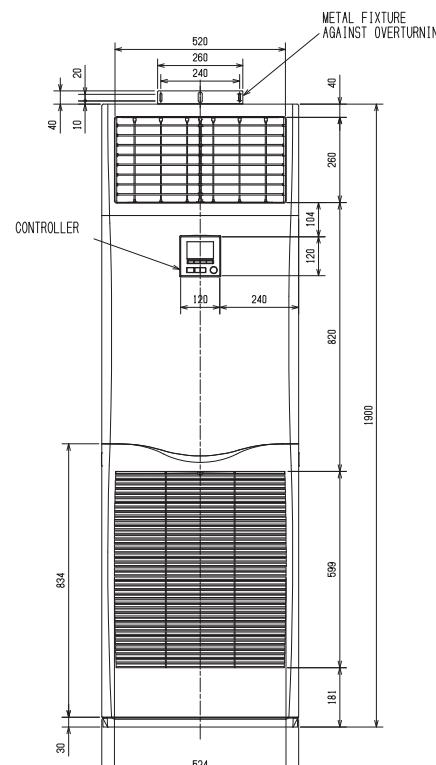
Product Dimensions

PSA-M71/100/125/140KA

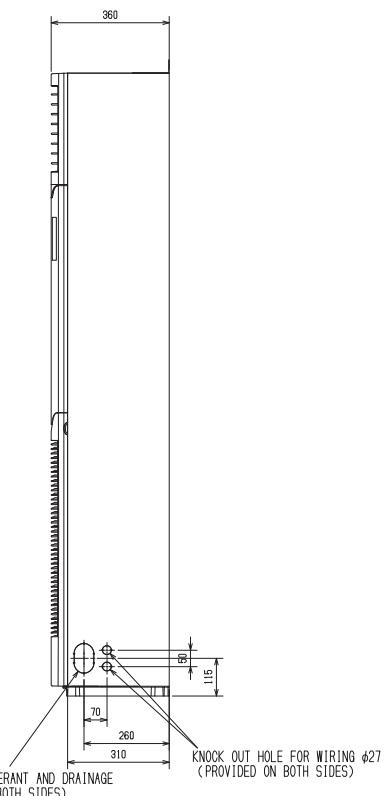
Upper View



Front View



Side View



Note: Please see page 1.3.66 for the full range of accessories.

SFZ-M R32 Floor Mounted System

Standard Inverter Heat Pump (Single Phase)



The **SFZ-M** is a compact concealed unit providing simple, effective air conditioning for perimeter zones in offices, restaurants and retail premises. The unit is easy to install and with a depth of only 200mm, offers an unobtrusive method of delivering highly efficient air conditioning performance.

Key Features & Benefits

- Compact unit allowing for concealed installation
- Low static pressure level resulting in noise reduction
- Ideal for perimeter refurbishments and new build projects
- 0-25-40-60Pa static pressure settings available, for flexibility of design and installation



SFZ-M - INDOOR UNITS	SFZ-M25VA	SFZ-M35VA	SFZ-M50VA	SFZ-M60VA	SFZ-M71VA
CAPACITY (kW)	Heating (nominal) Cooling (nominal)	3.2 (1.2-4.2) 2.5 (1.5-3.2)	4.1 (1.0-5.0) 3.5 (0.7-3.9)	6.0 (1.5-7.2) 5.0 (1.1-5.6)	7.0 (1.6-8.0) 6.1 (1.6-6.3)
	Heating (UK) Cooling (UK)	2.47 (1.11-3.57) 2.30 (1.29-2.94)	3.57 (0.94-4.25) 3.22 (0.64-3.59)	5.10 (1.28-6.12) 4.60 (1.01-5.15)	6.29 (1.36-6.80) 5.61 (1.47-5.80)
SHF (nominal)		0.84	0.78	0.76	0.75
COP / EER (nominal)		3.61 / 3.90	3.90 / 3.50	3.71 / 3.40	3.71 / 3.30
SCOP / SEER (BS EN14825)		4.00 / 6.10	4.10 / 6.10	4.10 / 6.10	4.00 / 6.10
ErP ENERGY EFFICIENCY CLASS	Heating/Cooling	A+ / A++	A+ / A++	A+ / A++	A+ / A++
AIRFLOW (l/s)	Lo-Mi-Hi	92-117-150	117-150-183	167-208-250	200-250-300
PIPE SIZE mm (in)	Gas Liquid	9.52 (3/8") 6.35 (1/4")	9.52 (3/8") 6.35 (1/4")	12.7 (1/2") 6.35 (1/4")	15.88 (5/8") 6.35 (1/4")
EXTERNAL STATIC PRESSURE (Pa)	0-25-40-60	0-25-40-60	0-25-40-60	0-25-40-60	0-25-40-60
SOUND PRESSURE LEVEL (dBA) Lo-Mi-Hi	25-29-35	25-29-33	30-35-39	30-35-39	30-36-42
SOUND POWER LEVEL (dBA)	54	53	59	59	61
DIMENSIONS (mm)	Width x Depth x Height	700 x 200 x 615	900 x 200 x 615	900 x 200 x 615	1100 x 200 x 615
WEIGHT (kg)		19	22.5	22.5	26
ELECTRICAL SUPPLY	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit
FUSE RATING (BS88) - HRC (A)	6	6	6	6	6
INTERCONNECTING CABLE No. Cores	4	4	4	4	4
WIRED REMOTE CONTROLLER REFERENCE	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA

SUZ-M - OUTDOOR UNITS	SUZ-M25VAR2	SUZ-M35VAR2	SUZ-M50VAR2	SUZ-M60VAR2	SUZ-M71VAR1
SOUND PRESSURE LEVEL (dBA) Heating/Cooling	45 / 46	48 / 48	48 / 49	49 / 51	49 / 51
SOUND POWER LEVEL (dBA) Heating/Cooling	59	59	64	65	66
WEIGHT (kg)	30	35	41	54	55
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	840 x 330 x 880
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 Heating/Cooling (nominal)	0.886 / 0.641	1.051 / 1.00	1.617 / 1.47	1.886 / 1.848	2.156 / 2.151
INPUT (kW) Heating/Cooling (UK)	0.75 / 0.55	0.89 / 0.86	1.37 / 1.26	1.60 / 1.59	1.83 / 1.85
STARTING CURRENT (A)	3.1	5.0	5.7	7.6	10.0
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]	9.3 / 8.4 [14.8]	9.5 / 9.1 [14.8]
FUSE RATING (BS88) - HRC (A)	10	16	20	20	20
MAINS CABLE No. Cores	3	3	3	3	3
MAX PIPE LENGTH (m)	20	20	30	30	30
MAX HEIGHT DIFFERENCE (m)	12	12	30	30	30
CHARGE REFRIGERANT (KG) / R32 (GWP 675) - 7m	0.65 / 0.44	0.90 / 0.61	1.20 / 0.81	1.25 / 0.84	1.45 / 0.98
CO ₂ EQUIVALENT (T)					
MAX ADDITIONAL REFRIGERANT (KG) / R32 (GWP 675)	0.91 / 0.61	1.16 / 0.78	1.66 / 1.12	1.71 / 1.15	2.37 / 1.60
CO ₂ EQUIVALENT (T)					

Accessories

Outdoor Units

MAC-881SG

Air outlet guide for SUZ-M25-35VAR2

MAC-882SG

Air outlet guide for SUZ-M50VAR2

MAC-886SG

Air outlet guide for SUZ-M60VAR2 / SUZ-M71VAR1

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE41TS-E

Remote sensor

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB=Premium Finish)

PAR-41MAA

Standard wired remote controller

PAR-334IF-E

Interface for M-NET, MA remote controller
(PAR-41MAA / PAR-CT01MAA),
on/off input and run/fault output

MAC-497IF-E

Interface for MA remote controller
(PAR-41MAA / PAR-CT01MAA)

MAC-587IF-E

Interface for connection to Wi-Fi MELCloud service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

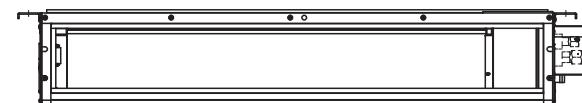
MELCORETAIL MINI

Retail control and input / output interface

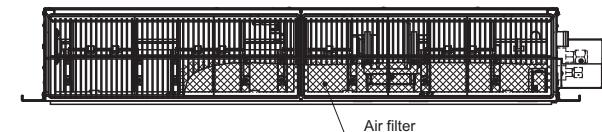
Product Dimensions

SFZ-M25/35/50/60/71VA

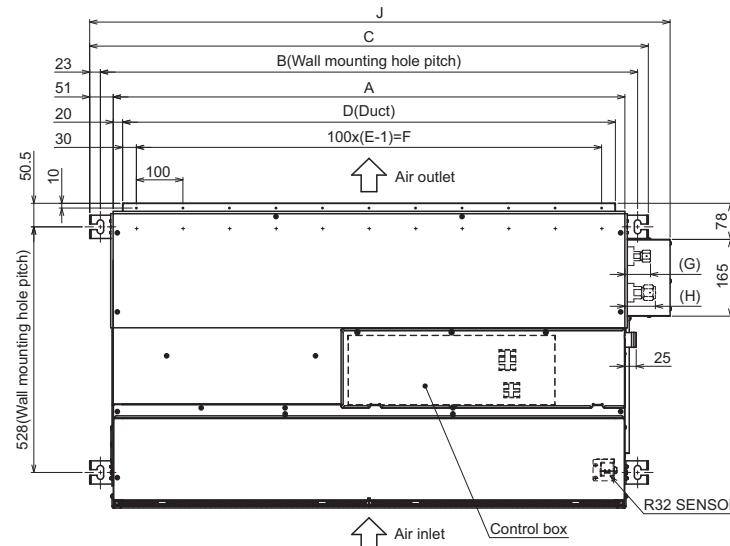
Upper View



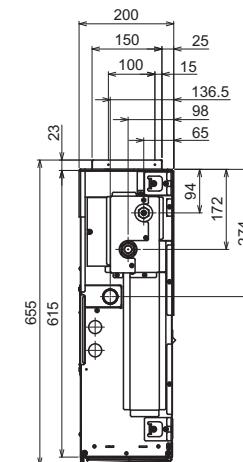
Lower View



Front View



Side View



MODEL	A	B	C	D	E	F	G	H	J
SFZ-M25VA	700	756	802	660	7	600	50	55	848
SFZ-M35VA	900	956	1002	860	9	800	50	55	1048
SFZ-M50VA	900	956	1002	860	9	800	50	61	1048
SFZ-M60VA	1100	1156	1202	1060	11	1000	50	66	1248
SFZ-M71VA	1100	1156	1202	1060	11	1000	55	66	1248

Note: Please see page 1.3.66 for the full range of accessories.

HP DX 2.0 R32 Air Curtain System

Power Inverter Heat Pump



The **HP DX 2.0 Power Inverter** air curtain range is the latest innovation from the collaboration between Mitsubishi Electric and Thermoscreens. These innovative air curtains are available as exposed or recessed versions, giving exceptional flexibility for commercial overdoor applications such as retail stores, office and hotel lobbies.

Key Features & Benefits

- Helps our customers meet their corporate social responsibility targets by using lower GWP R32 refrigerant
- Lower run costs and carbon emissions achieved with connection to flagship Mr Slim Power Inverter high efficiency outdoor units
- Large / double door openings are supported through twin-split air curtain capability

R32

HP DX 2.0 - RECESSED	HP1000R DX 2.0	HP1500R DX 2.0	HP1500R DX 2.0	HP2000R DX 2.0	HP2000R DX 2.0	HP2000R DX 2.0
CAPACITY (kW)	Heating (nominal) 8.3 Cooling (nominal) 7.4	13.2 11.8 364	13.2 11.8 575	15.7 14.0 720	15.7 14.0 720	21.0 18.7
AIRFLOW MAX (l/s)						
SOUND PRESSURE LEVEL AT 3m (dBA) Lo-Mi1-Hi	47-54-57	45-52-56	45-52-56	47-54-57	47-54-57	47-54-57
WEIGHT (kg)	52	75	75	93	93	93
DIMENSIONS (mm)	Width x Depth x Height 1250 (1303) x 485 (539) x 348	1750 (1803) x 485 (539) x 348	1750 (1803) x 485 (539) x 348	2340 (2393) x 485 (539) x 348	2340 (2393) x 485 (539) x 348	2340 (2393) x 485 (539) x 348
ELECTRICAL SUPPLY	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
RUNNING CURRENT (A)	0.8	1.2	1.2	1.4	1.4	1.4
MAINS CABLE No. Cores	3	3	3	3	3	3
UNIFORMITY AT OUTLET (%) [*]	90	92	92	90	90	90
MAX MOUNTING HEIGHT (m)	3.2	3.2	3.2	3.2	3.2	3.2

HP DX 2.0 - FREE STANDING	HP1000 DX 2.0	HP1500 DX 2.0	HP1500 DX 2.0	HP2000 DX 2.0	HP2000 DX 2.0	HP2000 DX 2.0
CAPACITY (kW)	Heating (nominal) 8.3 Cooling (nominal) 7.4	13.2 11.8 364	13.2 11.8 575	15.7 14.0 720	15.7 14.0 720	21.0 18.7
AIRFLOW MAX (l/s)						
SOUND PRESSURE LEVEL AT 3m (dBA) Lo-Mi1-Hi	47-54-57	45-52-56	45-52-56	47-54-57	47-54-57	47-54-57
WEIGHT (kg)	46	67	67	84	84	84
DIMENSIONS (mm)	Width x Depth x Height 1300 x 468 x 306	1825 x 468 x 306	1825 x 468 x 306	2350 x 468 x 306	2350 x 468 x 306	2350 x 468 x 306
ELECTRICAL SUPPLY	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
RUNNING CURRENT (A)	0.8	1.2	1.2	1.4	1.4	1.4
MAINS CABLE No. Cores	3	3	3	3	3	3
UNIFORMITY AT OUTLET (%) [*]	90	92	92	90	90	90
MAX MOUNTING HEIGHT (m)	3.2	3.2	3.2	3.2	3.2	3.2

HEAT PUMP OUTDOOR UNITS	PUZ-ZM1VHA2	PUZ-ZM125VKA2	PUZ-ZM125YKA2 ⁽³⁾	PUZ-ZM140VKA2	PUZ-ZM140YKA2 ⁽³⁾	PUZ-ZM200YKA2 ⁽³⁾
SOUND PRESSURE LEVEL (dBA) Heating/Cooling	49 / 47	52 / 50	52 / 50	52 / 50	52 / 50	62 / 59
SOUND POWER LEVEL (dBA) Cooling	67	70	70	70	70	77
WEIGHT (kg)	67	105	114	105	118	137
DIMENSIONS (mm)	Width x Depth x Height 950 x 330 + 25 x 943	1050 x 330 + 40 x 1338	1050 x 330 + 40 x 1338	1050 x 330 + 40 x 1338	1050 x 330 + 40 x 1338	1050 x 330 + 40 x 1338
ELECTRICAL SUPPLY	220-240v, 50Hz	220-240v, 50Hz	380-415v, 50Hz	220-240v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE	Single	Single	Three	Single	Three	Three
STARTING CURRENT (A)	5.3	13.2	3.3	13.2	3.3	5.0
FUSE RATING (BS88) - HRC (A)	7.79 / 7.06 [19.3]	15.77 / 14.53 [27.0]	5.32 / 4.89 [10.0]	18.41 / 15.88 [28.7]	6.23 / 5.37 [13.7]	9.57 / 8.58 [22.5]
SYSTEM RUNNING CURRENT (A)	25	32	16	40	16	25
INTERCONNECTING CABLE	2 Core	2 Core	2 Core	2 Core	2 Core	2 Core
MAX PIPE LENGTH (m)	55	85	85	85	85	85
MAX HEIGHT DIFFERENCE (m)	30	30	30	30	30	30
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	2.80 / 1.89 (30m)	3.60 / 2.43 (40m)	3.60 / 2.43 (40m)	3.60 / 2.43 (40m)	3.60 / 2.43 (40m)	6.3 / 4.25 (30m)
R32 (GWP 675)	0.80 / 0.54	2.40 / 1.62	2.40 / 1.62	2.40 / 1.62	2.40 / 1.62	2.20 / 1.49
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)						
R32 (GWP 675)						

⁽³⁾ Three Phase Notes: *1 Tested to ISO 27327.

Accessories

Outdoor Units

PAC-SG59SG

Air outlet guide for PUZ-ZM71VHA2

PAC-SH96SG

Air outlet guide for PUZ-ZM125-140VKA2/YKA2

PAC-SJ71FM-E

30Pa outdoor fan motor for PUZ-ZM100-140VKA2/YKA2

System Control Units

PAC-SJ95MA

M-NET adaptor for size 71 to 200

PAR-41MAA

Standard wired remote controller

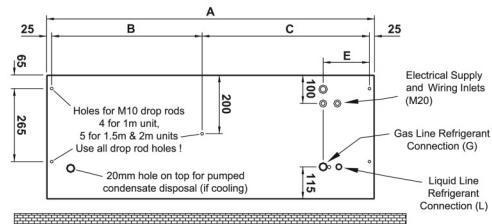
MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

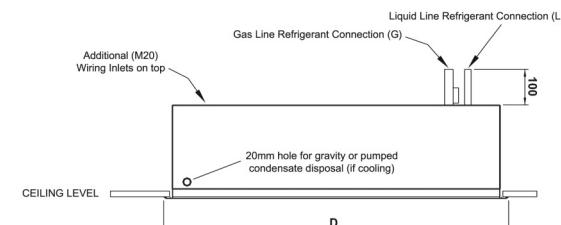
Product Dimensions

HP1000/1500/2000R DX 2.0

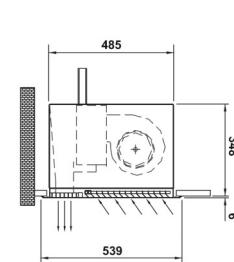
Front View



Upper View



Side View

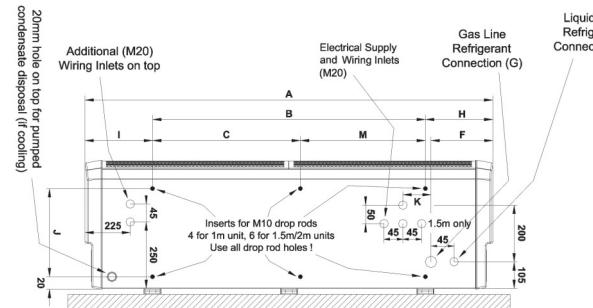


	HP1000R DX 2.0	HP1500R DX 2.0	HP2000R DX 2.0
A (mm)	1250	1750	2340
B (mm)	-	724	1129
C (mm)	-	976	1161
D (mm)	1303	1803	2393
E (mm)	170	166	189
G	5/8 in.	5/8 in.	7/8 in.
L	1/2 in.	1/2 in.	5/8 in.
Cut-Out Length (mm)	1250	1750	2340
in Ceiling Width (mm)	485	485	485

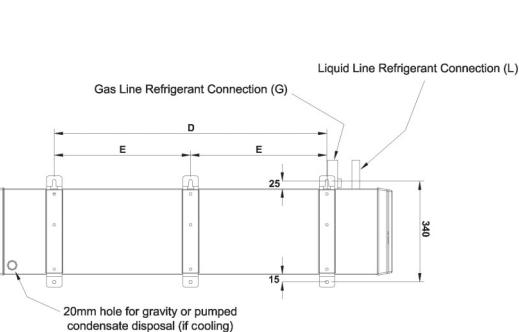
Product Dimensions

HP1000/1500/2000 DX 2.0

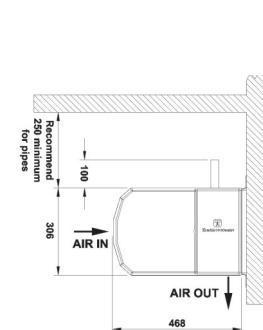
Front View



Upper View



Side View



Note: Please see page 1.3.66 for the full range of accessories.

High SHF Combinations



Our **Mr Slim** and **M Series** ranges offer high sensible cooling capacities, advanced control options and increased EER's. This range is ideal for small-scale computer rooms or applications that require a greater degree of sensible cooling.

Key Features & Benefits

- High sensible heat ratio offers a lower system running cost
- 'Backup and rotate' feature reduces load on individual units and prevents downtime (requires PAR-41MAA controller)
- High off-coil temperature minimises moisture in the air - ideal for applications such as computer rooms
- Flush-to-wall design, for simple installation

R32

INDOOR UNITS		MSY-TP35VF	PKA-M50LA2	PKA-M60KA2	MSY-TP50VF	PKA-M71KA2	PCA-M71KA2	PCA-M100KA2	PCA-M125KA2	PCA-M125KA2
CAPACITY (kW)	Cooling (Rated) / Min-Max	3.5 (1.5-4.0)	3.6 (1.6-4.5)	4.6 (2.3-5.6)	5.0 (1.5-5.7)	6.1 (2.7-6.7)	6.1 (2.7-6.7)	7.1 (3.3-8.1)	9.5 (4.9-11.4)	9.5 (4.9-11.4)
SHF (Rated)		0.98	0.86	0.91	0.82	0.9	0.86	0.9	0.86	0.86
EER (Rated)		4.61	4.3	4.1	3.45	4	4.1	4	4.1	4.1
SEER (BS EN14825)		9	6.4	6.6	8	6.8	6.5	6.6	6.4	6.3
ErP ENERGY EFFICIENCY CLASS	Cooling	A+++	A++	A++	A+++	A++	A++	A++	A++	A++
AIRFLOW (l/s)	Cooling - (Lo-Mi2-Mi1-Hi)	168-193-228-273	125-137-153-182	300-333-367	168-193-228-273	300-333-367	267-283-300-333	367-400-433-467	383-417-450-483	383-417-450-483
PIPE SIZE mm (in)	Gas	9.52 (3/8")	12.7 (1/2")	12.7 (1/2")	9.52 (3/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
	Liquid	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
SOUND PRESSURE LEVEL (dBA)	Cooling - (Lo-Mi2-Mi1-Hi)	31-36-40-45	34-37-40-43	39-42-45	31-36-40-45	39-42-45	35-37-39-41	37-39-41-43	39-41-43-45	39-41-43-45
SOUND POWER LEVEL (dBA)		60	60	64	60	64	62	63	65	65
DIMENSIONS (mm)	Width x Depth x Height	923 x 250 x 305	898 x 237 x 299	1170 x 295 x 365	923 x 250 x 305	1170 x 295 x 365	1280 x 680 x 230	1600 x 680 x 230	1600 x 680 x 230	1600 x 680 x 230
WEIGHT (kg)		12.5	12.6	21	12.5	21	32	37	38	38
ELECTRICAL SUPPLY		220-240v, 50Hz	Fed by Outdoor	Fed by Outdoor	220-240v, 50Hz	Fed by Outdoor				
FUSE RATING (BS88) - HRC (A)		10	6	6	10	6	6	6	6	6
INTERCONNECTING CABLE No. Cores		4	4	4	4	4	4	4	4	4
ACCESSORIES	Remote Controller	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA

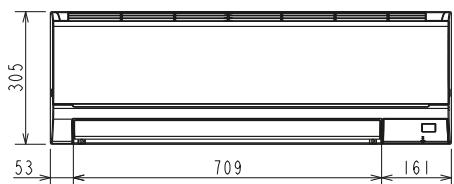
OUTDOOR UNITS		MUY-TP35VF	PUZ-ZM35VKA2	PUZ-ZM50VKA2	MUY-TP50VF	PUZ-ZM60VHA2	PUZ-ZM60VHA2	PUZ-ZM71VHA2	PUZ-ZM100VKA2	PUZ-ZM100YKA2 ⁽³⁾
SOUND PRESSURE LEVEL (dBA)	Cooling	45	44	44	47	47	47	47	49	49
SOUND POWER LEVEL (dBA)	Cooling	58	65	65	61	67	67	67	69	69
WEIGHT (kg)		34	46	46	34	67	67	67	105	111
DIMENSIONS (mm)	Width x Depth x Height	800 x 285 x 550	800 x 300 x 630	800 x 300 x 630	800 x 285 x 550	950 x 300 + 25 x 943	950 x 300 + 25 x 943	950 x 300 + 25 x 943	1050 x 300 + 40 x 1338	1050 x 300 + 40 x 1338
ELECTRICAL SUPPLY	Fed by Indoor Unit	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	Fed by Indoor Unit	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	380-415v, 50Hz
PHASE		Single	Single	Single	Single	Single	Single	Single	Single	Three
SYSTEM POWER INPUT (kW)	Cooling (Nominal)	0.76	0.837	1.121	1.45	1.525	1.487	1.775	2.317	2.317
STARTING CURRENT (A)		3.6	5	5	6.4	6	6	6	13	13
SYSTEM RUNNING CURRENT (A)	Cooling (MAX)	3.6 (9.2)	4.31 (13.4)	5.57 (13.4)	6.4 (9.2)	6.65 (19.4)	6.48 (19.4)	7.81 (19.4)	10.45 (27.1)	5.45 [8.8]
FUSE RATING (BS88) - HRC (A)		10	16	16	10	25	25	25	32	16
MAINS CABLE No. Cores		3	3	3	3	3	3	3	3	5
MAX PIPE LENGTH (m)		20	50	50	20	55	55	55	100	100
MAX HEIGHT DIFFERENCE (m)		12	30	30	12	30	30	30	30	30
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (T) R32 (GWP 675)		0.85 / 0.57 (7m)	2.0 / 1.35 (30m)	2.0 / 1.35 (30m)	0.85 / 0.57 (7m)	2.8 / 1.89 (30m)	2.8 / 1.89 (30m)	2.8 / 1.89 (30m)	3.6 / 2.43 (40m)	3.6 / 2.43 (40m)
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (T) R32 (GWP 675)		0.13 / 0.09	0.3 / 0.20	0.3 / 0.20	0.13 / 0.09	0.8 / 0.54	0.8 / 0.54	0.8 / 0.54	0.24 / 1.62	0.24 / 1.62

⁽³⁾ Three Phase

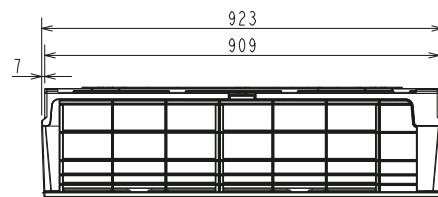
Product Dimensions

MSY-TP35/50VF

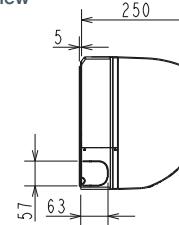
Front View



Upper View



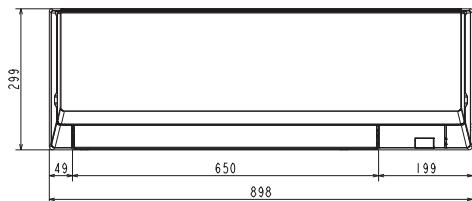
Side View



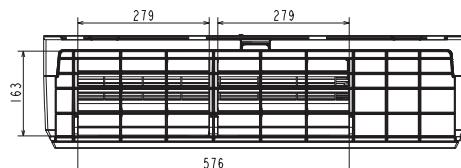
Product Dimensions

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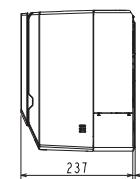
Front View



Upper View



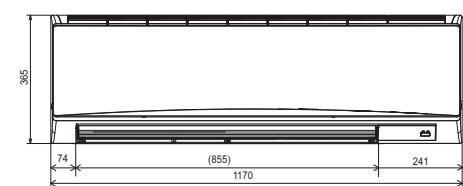
Side View



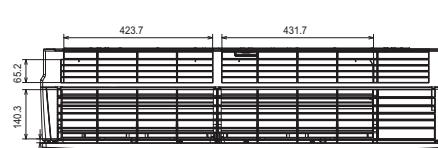
Product Dimensions

PKA-M60/71KA2

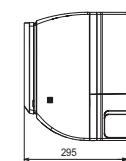
Front View



Upper View



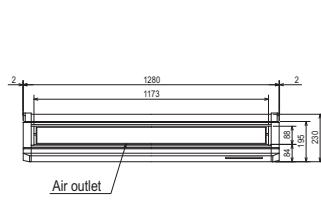
Side View



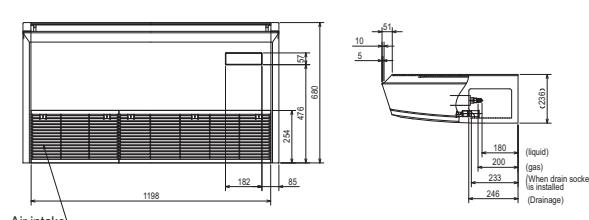
Product Dimensions

PCA-M71KA2

Front View



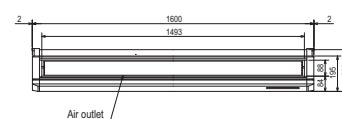
Side View



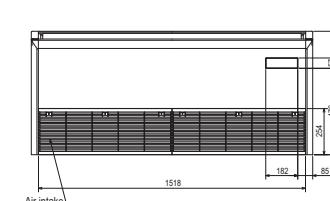
Product Dimensions

PCA-M100/125KA2

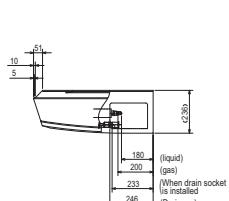
Front View



Upper View



Side View



PAC-IF013B-E

R32 & R410A

Air Handling Unit Controller



The Air Handling Unit Controller can interface Mitsubishi Electric Mr Slim outdoor units to third party air handing units. Up to six Mr Slim outdoor units can be used on a single air handling unit, providing a wide range of heating and cooling capacities.

Key Features & Benefits

- Simpler installation with Mr Slim being a single source of heating and cooling
- BEMS external monitoring and control can be achieved through direct Modbus, digital switches or analogue input
- Intelligent Multiple Outdoor Unit Control (IMOUC) of up to six Mr Slim outdoor units when operated in external manual control, this can include two different capacities or a series of Mr Slim outdoor units
- Anti-cycling measures incorporated into the design to extend the life of the outdoor units
- Capacity control of up to 11 individual steps ensures high comfort levels
- SD card installed to record history and facilitate software upgrades
- Maximum airflow of up to 5 x standard Mr Slim specification
- Complete AHU systems incorporating this pre-installed controller are also available



PAC-IF013B-E	SIZE 35	SIZE 50	SIZE 60	SIZE 71	SIZE 100	SIZE 125	SIZE 140	SIZE 200	SIZE 250
CAPACITY (kW)	Heating (nominal) 4.1 Cooling (nominal) 3.5	6.0 5.0	7.0 6.0	8.0 7.1	11.2 10.0	14.0 12.5	16.0 14.0	22.4 20.0	27.0 25.0
COMPATIBLE O.U	PUZ-ZM (R32) PUZ-M (R32) PUHZ-ZRP (R410A) PUHZ-P (R410A)	PUZ-ZM35VKA2 PUZ-ZM50VKA2 PUZ-ZM60VHA2 PUZ-ZM71VHA2 PUZ-ZM100VKA2/YKA2 PUZ-ZM125VKA2/YKA2 PUZ-ZM140VKA2/YKA2 PUZ-ZM200YKA2 PUZ-ZM250YKA2	N/A N/A PUHZ-ZRP50VKA2 PUHZ-ZRP60VHA2 PUHZ-ZRP71VHA2 PUHZ-ZRP100VKA3/YKA3 PUHZ-ZRP125VKA3/YKA3 PUHZ-ZRP140VKA3/YKA3 PUHZ-ZRP200YKA3 PUHZ-ZRP250YKA3	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	PUZ-M200YKA2 PUZ-M250YKA2	PUHZ-P200YKA3 PUHZ-P250YKA3
PIPE SIZE mm (in)	PUZ-ZMM (Gas) (R32) Liquid 6.35 (1/4") PUHZ-ZRP/P (Gas) (R410A) Liquid 6.35 (1/4")	12.7 (1/2") 12.7 (1/2") 15.88 (5/8") 15.88 (5/8") 9.52 (3/8") 9.52 (3/8")	12.7 (1/2") 12.7 (1/2") 15.88 (5/8") 15.88 (5/8") 9.52 (3/8") 9.52 (3/8")	15.88 (5/8") 15.88 (5/8") 15.88 (5/8") 15.88 (5/8") 9.52 (3/8") 9.52 (3/8")	15.88 (5/8") 15.88 (5/8") 15.88 (5/8") 15.88 (5/8") 9.52 (3/8") 9.52 (3/8")	15.88 (5/8") 15.88 (5/8") 15.88 (5/8") 15.88 (5/8") 9.52 (3/8") 9.52 (3/8")	15.88 (5/8") 15.88 (5/8") 15.88 (5/8") 15.88 (5/8") 9.52 (3/8") 9.52 (3/8")	28.58 (1 1/8") 28.58 (1 1/8") 28.58 (1 1/8") 28.58 (1 1/8") 9.52 (3/8") 9.52 (3/8")	28.58 (1 1/8") 28.58 (1 1/8") 28.58 (1 1/8") 28.58 (1 1/8") 12.7 (1/2") 12.7 (1/2")
HEAT EXCHANGER (cm ²)	Max Volume >30m 20m 10m Min Volume	1.05 1.35 1.65 0.35	1.5 1.8 2.1 0.5	1.8 2.7 3.6 0.6	2.13 3.03 3.93 0.71	3.0 3.9 4.8 1.0	3.75 4.65 5.55 1.25	4.2 5.1 6.0 1.4	6.0 7.8 9.6 2.0
DIMENSIONS (mm)	Width x Depth x Height	336 x 69 x 278	336 x 69 x 278	336 x 69 x 278	336 x 69 x 278	336 x 69 x 278	336 x 69 x 278	336 x 69 x 278	336 x 69 x 278
WEIGHT (No Accessories) (kg)		2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5

Notes: One air handling unit controller is required per outdoor unit. Cooling: Indoor 27°C DB/19°C WB, Outdoor 35°C DB/24°C WB. Heating: Indoor 20°C DB, Outdoor 7°C DB/6°C WB.

Notes:

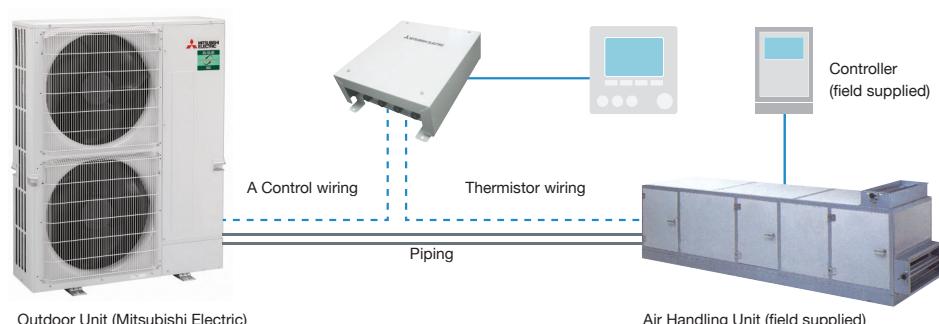
One air handling unit controller is required per heat exchanger.

If using more than one air handling unit controller on a single AHU, there are two options:

1. Connect 1 x PAC-IF013B-E unit per heat exchanger - these will operate as separate circuits with a controller on each which is included.
2. Connect 1 x PAC-IF013B-E for the first heat exchanger, then up to 5 additional sub PAC-SIF013B-E units. The included controller with the PAC-IF013B-E will additionally control the sub units.

For further information of this feature please consult your local sales office.

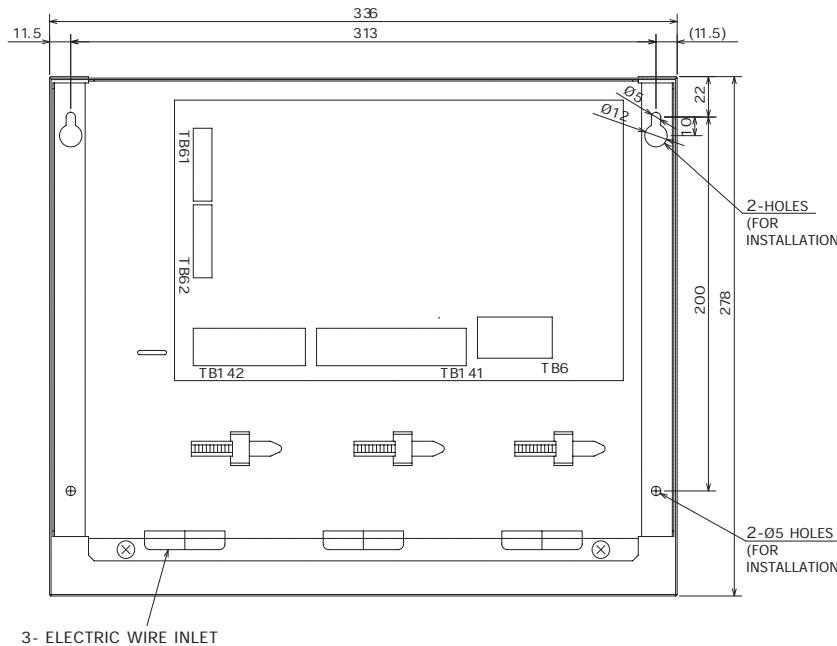
Example:



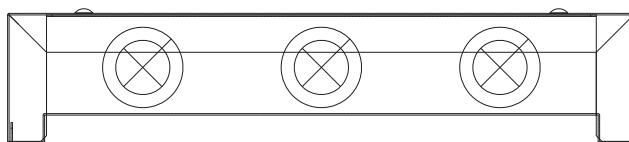
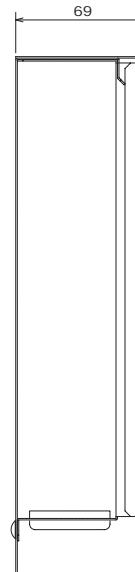
Upper View



Front View



Side View



R32 Mr Slim Twin / Triple / Quadruple Multi-Split Systems

Inverter Heat Pump Units



The Mr Slim Multi-Split system is an ideal option for open plan spaces in medium sized premises such as offices or shops, where two, three or four units are required. These can be Mr Slim ceiling cassettes (PLA-ZM/M & SLZ-M), ceiling suspended (PCA-M), ducted (PEAD-M & SEZ-M) or wall mounted (PKA-M) models and can be connected to a single outdoor unit using twin, triple or quadruple multi distributor pipes.

Key Features & Benefits

- Twin, triple or quadruple indoor heat pump units can be operated in Multi-Split configuration from a single outdoor unit
- Heat pumps must operate in same heating or cooling mode
- Cooling capacity range 3.3 to 27kW
- Heating capacity range 3.5 to 31kW

PIPE RUN PARAMETERS		REFRIGERANT	PIPE RUNS	MAX. PIPE RUN (M)
OUTDOOR MODEL				
PUZ-ZM71VHA2		R32	A+B+C twin	55
PUZ-ZM100-140VKA2/YKA2		R32	A+B+C twin	100
PUZ-ZM200/250YKA2		R32	A+B+C twin	100
PUZ-M100VKA2/YKA2		R32	A+B+C twin	55
PUZ-M125-140VKA2/YKA2		R32	A+B+C twin	65
PUZ-M200/250YKA2		R32	A+B+C twin	70
PUZ-ZM140VKA2/YKA2		R32	A+B+C+D triple	100
PUZ-ZM200/250YKA2		R32	A+B+C+D triple	100
PUZ-M140VKA2/YKA2		R32	A+B+C+D triple	65
PUZ-M200/250YKA2		R32	A+B+C+D triple	70
PUZ-ZM200/250YKA2		R32	A+B+C+D+E quadruple	100
PUZ-M200/250YKA2		R32	A+B+C+D+E quadruple	70
PUZ-ZM71VHA2 / PUZ-ZM100-140VKA2/YKA2		R32	B - C or C - D or B - D	≤ 8
PUZ-ZM200/250YKA2		R32	B - C or B - D or B - E or C - D or C - E or D - E	≤ 8
PUZ-M100-140VKA2/YKA2		R32	B - C or C - D or B - D	≤ 8
PUZ-M200/250YKA2		R32	B - C or B - D or B - E or C - D or C - E or D - E	≤ 8

Notes: PSA-M and SFZ-M indoor units cannot be used as part of an R32 Mr Slim Multi-Split system.

R32 Mr Slim Twin / Triple / Quadruple Multi-Split Systems

Inverter Heat Pump Units



The Mr Slim Multi-Split Indoor Unit Range

Ceiling Cassette

- PLA-ZM / PLA-M



- SLZ-M



Wall Mounted

- PKA-M



Ceiling Concealed Ducted

- PEAD-M



- SEZ-M



Ceiling Suspended

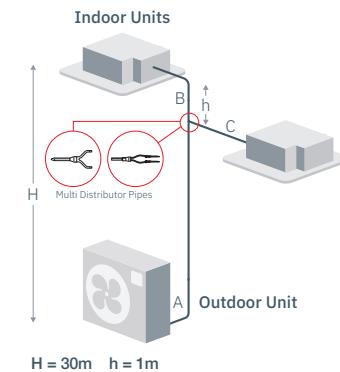
- PCA-M



- PCA-M-HA2

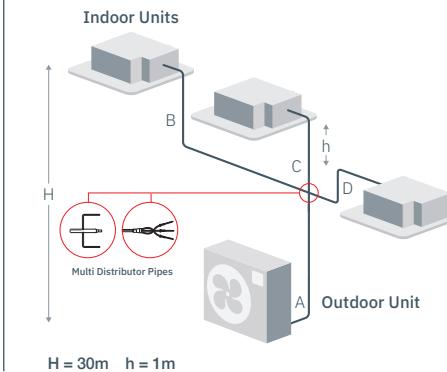


TWIN

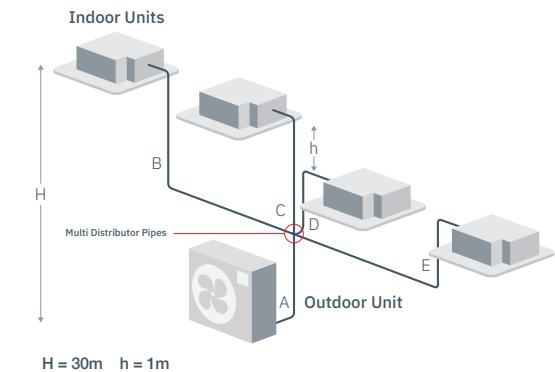


TRIPLE

TRIPLE



QUADRUPLE



R32 Mr Slim Twin / Triple / Quadruple Multi-Split Systems

Inverter Heat Pump Units



R32 Mr Slim outdoor units can be configured in twin, triple and quadruple combinations giving added flexibility.

TWIN SYSTEMS	DESCRIPTION
(2) PLA-ZM35EA2 / (1) PUZ-ZM71VHA2 (2) PLA-ZM50EA2 / (1) PUZ-ZM100VKA2 (2) PLA-ZM60EA2 / (1) PUZ-ZM125VKA2 (2) PLA-ZM71EA2 / (1) PUZ-ZM140VKA2 (2) PLA-ZM50EA2 / (1) PUZ-ZM100YKA2 (2) PLA-ZM60EA2 / (1) PUZ-ZM125YKA2 (2) PLA-ZM71EA2 / (1) PUZ-ZM140YKA2 (2) PLA-ZM100EA2 / (1) PUZ-ZM200YKA2 (2) PLA-ZM125EA2 / (1) PUZ-ZM250YKA2 (2) SLZ-M35FA2 / (1) PUZ-ZM71VHA2 (2) SLZ-M50FA2 / (1) PUZ-ZM100VKA2 (2) SLZ-M60FA2 / (1) PUZ-ZM125VKA2 (2) SLZ-M50FA2 / (1) PUZ-ZM100YKA2 (2) SLZ-M60FA2 / (1) PUZ-ZM125YKA2	R32 Power Inverter Cassette, Twin System, Single Phase R32 Power Inverter Cassette, Twin System, Three Phase R32 Power Inverter Cassette, Twin System, Single Phase R32 Power Inverter Cassette, Twin System, Three Phase R32 Power Inverter Cassette, Twin System, Three Phase
(2) PLA-M50EA2 / (1) PUZ-M100VKA2 (2) PLA-M60EA2 / (1) PUZ-M125VKA2 (2) PLA-M71EA2 / (1) PUZ-M140VKA2 (2) PLA-M50EA2 / (1) PUZ-M100YKA2 (2) PLA-M60EA2 / (1) PUZ-M125YKA2 (2) PLA-M71EA2 / (1) PUZ-M140YKA2 (2) PLA-M100EA2 / (1) PUZ-M200YKA2 (2) PLA-M125EA2 / (1) PUZ-M250YKA2	R32 Standard Inverter Cassette, Twin System, Single Phase R32 Standard Inverter Cassette, Twin System, Single Phase R32 Standard Inverter Cassette, Twin System, Single Phase R32 Standard Inverter Cassette, Twin System, Three Phase
(2) PKA-M35LA2 / (1) PUZ-ZM71VKA2 (2) PKA-M50LA2 / (1) PUZ-ZM100VKA2 (2) PKA-M60KA2 / (1) PUZ-ZM125VKA2 (2) PKA-M71KA2 / (1) PUZ-ZM140VKA2 (2) PKA-M50LA2 / (1) PUZ-ZM100YKA2 (2) PKA-M60KA2 / (1) PUZ-ZM125YKA2 (2) PKA-M71KA2 / (1) PUZ-ZM140YKA2 (2) PKA-M100KA2 / (1) PUZ-ZM200YKA2	R32 Power Inverter Wall Mounted, Twin System, Single Phase R32 Power Inverter Wall Mounted, Twin System, Three Phase
(2) PKA-M50LA2 / (1) PUZ-M100VKA2 (2) PKA-M60KA2 / (1) PUZ-M125VKA2 (2) PKA-M71KA2 / (1) PUZ-M140VKA2 (2) PKA-M50LA2 / (1) PUZ-M100YKA2 (2) PKA-M60KA2 / (1) PUZ-M125YKA2 (2) PKA-M71KA2 / (1) PUZ-M140YKA2 (2) PKA-M100KA2 / (1) PUZ-M200YKA2	R32 Standard Inverter Wall Mounted, Twin System, Single Phase R32 Standard Inverter Wall Mounted, Twin System, Single Phase R32 Standard Inverter Wall Mounted, Twin System, Single Phase R32 Standard Inverter Wall Mounted, Twin System, Three Phase

R32 Mr Slim Twin / Triple / Quadruple Multi-Split Systems

Inverter Heat Pump Units



TWIN SYSTEMS	DESCRIPTION
(2) PEAD-M35JA2 / (1) PUZ-ZM71VHA2 (2) PEAD-M50JA2 / (1) PUZ-ZM100VKA2 (2) PEAD-M60JA2 / (1) PUZ-ZM125VKA2 (2) PEAD-M71JA2 / (1) PUZ-ZM140VKA2 (2) PEAD-M50JA2 / (1) PUZ-ZM100YKA2 (2) PEAD-M60JA2 / (1) PUZ-ZM125YKA2 (2) PEAD-M71JA2 / (1) PUZ-ZM140YKA2 (2) PEAD-M100JA2 / (1) PUZ-ZM200YKA2 (2) PEAD-M125JA2 / (1) PUZ-ZM250YKA2 (2) SEZ-M35DA2 / (1) PUZ-ZM71VHA2 (2) SEZ-M50DA2 / (1) PUZ-ZM100VKA2 (2) SEZ-M60DA2 / (1) PUZ-ZM125VKA2 (2) SEZ-M71DA2 / (1) PUZ-ZM140VKA2 (2) SEZ-M50DA2 / (1) PUZ-ZM100YKA2 (2) SEZ-M60DA2 / (1) PUZ-ZM125YKA2 (2) SEZ-M71DA2 / (1) PUZ-ZM140YKA2	R32 Power Inverter Ceiling Concealed Ducted, Twin System, Single Phase R32 Power Inverter Ceiling Concealed Ducted, Twin System, Single Phase R32 Power Inverter Ceiling Concealed Ducted, Twin System, Single Phase R32 Power Inverter Ceiling Concealed Ducted, Twin System, Single Phase R32 Power Inverter Ceiling Concealed Ducted, Twin System, Three Phase R32 Power Inverter Ceiling Concealed Ducted, Twin System, Three Phase R32 Power Inverter Ceiling Concealed Ducted, Twin System, Three Phase R32 Power Inverter Ceiling Concealed Ducted, Twin System, Three Phase R32 Power Inverter Ceiling Concealed Ducted, Twin System, Three Phase R32 Power Inverter Ceiling Concealed Ducted, Twin System, Three Phase R32 Power Inverter Ceiling Concealed Ducted, Twin System, Single Phase R32 Power Inverter Ceiling Concealed Ducted, Twin System, Single Phase R32 Power Inverter Ceiling Concealed Ducted, Twin System, Single Phase R32 Power Inverter Ceiling Concealed Ducted, Twin System, Single Phase R32 Power Inverter Ceiling Concealed Ducted, Twin System, Single Phase R32 Power Inverter Ceiling Concealed Ducted, Twin System, Single Phase R32 Power Inverter Ceiling Concealed Ducted, Twin System, Three Phase R32 Power Inverter Ceiling Concealed Ducted, Twin System, Three Phase R32 Power Inverter Ceiling Concealed Ducted, Twin System, Three Phase R32 Power Inverter Ceiling Concealed Ducted, Twin System, Three Phase R32 Power Inverter Ceiling Concealed Ducted, Twin System, Three Phase R32 Power Inverter Ceiling Concealed Ducted, Twin System, Three Phase
(2) PEAD-M50JA2 / (1) PUZ-M100VKA2 (2) PEAD-M60JA2 / (1) PUZ-M125VKA2 (2) PEAD-M71JA2 / (1) PUZ-M140VKA2 (2) PEAD-M50JA2 / (1) PUZ-M100YKA2 (2) PEAD-M60JA2 / (1) PUZ-M125YKA2 (2) PEAD-M71JA2 / (1) PUZ-M140YKA2 (2) PEAD-M100JA2 / (1) PUZ-M200YKA2 (2) PEAD-M125JA2 / (1) PUZ-M250YKA2	R32 Standard Inverter Ceiling Concealed Ducted, Twin System, Single Phase R32 Standard Inverter Ceiling Concealed Ducted, Twin System, Single Phase R32 Standard Inverter Ceiling Concealed Ducted, Twin System, Single Phase R32 Standard Inverter Ceiling Concealed Ducted, Twin System, Three Phase R32 Standard Inverter Ceiling Concealed Ducted, Twin System, Three Phase R32 Standard Inverter Ceiling Concealed Ducted, Twin System, Three Phase R32 Standard Inverter Ceiling Concealed Ducted, Twin System, Three Phase R32 Standard Inverter Ceiling Concealed Ducted, Twin System, Three Phase
(2) PCA-M50KA2 / (1) PUZ-ZM100VKA2 (2) PCA-M60KA2 / (1) PUZ-ZM125VKA2 (2) PCA-M71KA2 / (1) PUZ-ZM140VKA2 (2) PCA-M50KA2 / (1) PUZ-ZM100YKA2 (2) PCA-M60KA2 / (1) PUZ-ZM125YKA2 (2) PCA-M71KA2 / (1) PUZ-ZM140YKA2 (2) PCA-M100KA2 / (1) PUZ-ZM200YKA2 (2) PCA-M125KA2 / (1) PUZ-ZM250YKA2	R32 Power Inverter Ceiling Suspended, Twin System, Single Phase R32 Power Inverter Ceiling Suspended, Twin System, Single Phase R32 Power Inverter Ceiling Suspended, Twin System, Single Phase R32 Power Inverter Ceiling Suspended, Twin System, Three Phase
(2) PCA-M50KA2 / (1) PUZ-M100VKA2 (2) PCA-M60KA2 / (1) PUZ-M125VKA2 (2) PCA-M71KA2 / (1) PUZ-M140VKA2 (2) PCA-M50KA2 / (1) PUZ-M100YKA2 (2) PCA-M60KA2 / (1) PUZ-M125YKA2 (2) PCA-M71KA2 / (1) PUZ-M140YKA2 (2) PCA-M100KA2 / (1) PUZ-M200YKA2 (2) PCA-M125KA2 / (1) PUZ-M250YKA2	R32 Standard Inverter Ceiling Suspended, Twin System, Single Phase R32 Standard Inverter Ceiling Suspended, Twin System, Single Phase R32 Standard Inverter Ceiling Suspended, Twin System, Single Phase R32 Standard Inverter Ceiling Suspended, Twin System, Three Phase
(2) PCA-M71HA2 / (1) PUZ-ZM140VKA2 (2) PCA-M71HA2 / (1) PUZ-ZM140YKA2	R32 Power Inverter Stainless Steel Ceiling Suspended, Twin System, Single Phase R32 Power Inverter Stainless Steel Ceiling Suspended, Twin System, Three Phase

R32 Mr Slim Twin / Triple / Quadruple Multi-Split Systems

Inverter Heat Pump Units



TRIPLE SYSTEMS	DESCRIPTION
(3) PLA-ZM50EA2 / (1) PUZ-ZM140VKA2 (3) PLA-ZM50EA2 / (1) PUZ-ZM140YKA2 (3) PLA-ZM60EA2 / (1) PUZ-ZM200YKA2 (3) PLA-ZM71EA2 / (1) PUZ-ZM250YKA2 (3) SLZ-M35FA2 / (1) PUZ-ZM100VKA2 (3) SLZ-M50FA2 / (1) PUZ-ZM125VKA2 (3) SLZ-M50FA2 / (1) PUZ-ZM140VKA2 (3) SLZ-M35FA2 / (1) PUZ-ZM100YKA2 (3) SLZ-M50FA2 / (1) PUZ-ZM125YKA2 (3) SLZ-M50FA2 / (1) PUZ-ZM140YKA2	R32 Power Inverter Cassette, Triple System, Single Phase R32 Power Inverter Cassette, Triple System, Three Phase R32 Power Inverter Cassette, Triple System, Three Phase R32 Power Inverter Cassette, Triple System, Three Phase R32 Power Inverter Cassette, Triple System, Single Phase R32 Power Inverter Cassette, Triple System, Single Phase R32 Power Inverter Cassette, Triple System, Single Phase R32 Power Inverter Cassette, Triple System, Three Phase R32 Power Inverter Cassette, Triple System, Three Phase R32 Power Inverter Cassette, Triple System, Three Phase
(3) PLA-M50EA2 / (1) PUZ-M140VKA2 (3) PLA-M50EA2 / (1) PUZ-M140YKA2 (3) PLA-M60EA2 / (1) PUZ-M200YKA2 (3) PLA-M71EA2 / (1) PUZ-M250YKA2	R32 Standard Inverter Cassette, Triple System, Single Phase R32 Standard Inverter Cassette, Triple System, Three Phase R32 Standard Inverter Cassette, Triple System, Three Phase R32 Standard Inverter Cassette, Triple System, Three Phase
(3) PKA-M50LA2 / (1) PUZ-ZM140VKA2 (3) PKA-M50LA2 / (1) PUZ-ZM140YKA2 (3) PKA-M60KA2 / (1) PUZ-ZM200YKA2 (3) PKA-M71KA2 / (1) PUZ-ZM250YKA2	R32 Power Inverter Wall Mounted, Triple System, Single Phase R32 Power Inverter Wall Mounted, Triple System, Three Phase R32 Power Inverter Wall Mounted, Triple System, Three Phase R32 Power Inverter Wall Mounted, Triple System, Three Phase
(3) PKA-M50LA2 / (1) PUZ-M140VKA2 (3) PKA-M50LA2 / (1) PUZ-M140YKA2 (3) PKA-M60KA2 / (1) PUZ-M200YKA2 (3) PKA-M71KA2 / (1) PUZ-M250YKA2	R32 Standard Inverter Wall Mounted, Triple System, Single Phase R32 Standard Inverter Wall Mounted, Triple System, Three Phase R32 Standard Inverter Wall Mounted, Triple System, Three Phase R32 Standard Inverter Wall Mounted, Triple System, Three Phase
(3) PEAD-M50JA2 / (1) PUZ-ZM140VKA2 (3) PEAD-M50JA2 / (1) PUZ-ZM140YKA2 (3) PEAD-M60JA2 / (1) PUZ-ZM200YKA2 (3) PEAD-M71JA2 / (1) PUZ-ZM250YKA2 (3) SEZ-M35DA2 / (1) PUZ-ZM100VKA2 (3) SEZ-M50DA2 / (1) PUZ-ZM125VKA2 (3) SEZ-M50DA2 / (1) PUZ-ZM140VKA2 (3) SEZ-M35DA2 / (1) PUZ-ZM100YKA2 (3) SEZ-M50DA2 / (1) PUZ-ZM125YKA2 (3) SEZ-M50DA2 / (1) PUZ-ZM140YKA2	R32 Power Inverter Ceiling Concealed Ducted, Triple System, Single Phase R32 Power Inverter Ceiling Concealed Ducted, Triple System, Three Phase R32 Power Inverter Ceiling Concealed Ducted, Triple System, Three Phase R32 Power Inverter Ceiling Concealed Ducted, Triple System, Three Phase R32 Power Inverter Ceiling Concealed Ducted, Triple System, Single Phase R32 Power Inverter Ceiling Concealed Ducted, Triple System, Single Phase R32 Power Inverter Ceiling Concealed Ducted, Triple System, Single Phase R32 Power Inverter Ceiling Concealed Ducted, Triple System, Three Phase R32 Power Inverter Ceiling Concealed Ducted, Triple System, Three Phase R32 Power Inverter Ceiling Concealed Ducted, Triple System, Three Phase
(3) PEAD-M50JA2 / (1) PUZ-M140VKA2 (3) PEAD-M50JA2 / (1) PUZ-M140YKA2 (3) PEAD-M60JA2 / (1) PUZ-M200YKA2 (3) PEAD-M71JA2 / (1) PUZ-M250YKA2	R32 Standard Inverter Ceiling Concealed Ducted, Triple System, Single Phase R32 Standard Inverter Ceiling Concealed Ducted, Triple System, Three Phase R32 Standard Inverter Ceiling Concealed Ducted, Triple System, Three Phase R32 Standard Inverter Ceiling Concealed Ducted, Triple System, Three Phase
(3) PCA-M50KA2 / (1) PUZ-ZM140VKA2 (3) PCA-M50KA2 / (1) PUZ-ZM140YKA2 (3) PCA-M60KA2 / (1) PUZ-ZM200YKA2 (3) PCA-M71KA2 / (1) PUZ-ZM250YKA2	R32 Power Inverter Ceiling Suspended, Triple System, Single Phase R32 Power Inverter Ceiling Suspended, Triple System, Three Phase R32 Power Inverter Ceiling Suspended, Triple System, Three Phase R32 Power Inverter Ceiling Suspended, Triple System, Three Phase
(3) PCA-M50KA2 / (1) PUZ-M140VKA2 (3) PCA-M50KA2 / (1) PUZ-M140YKA2 (3) PCA-M60KA2 / (1) PUZ-M200YKA2 (3) PCA-M71KA2 / (1) PUZ-M250YKA2	R32 Standard Inverter Ceiling Suspended, Triple System, Single Phase R32 Standard Inverter Ceiling Suspended, Triple System, Three Phase R32 Standard Inverter Ceiling Suspended, Triple System, Three Phase R32 Standard Inverter Ceiling Suspended, Triple System, Three Phase
(3) PCA-M71HA2 / (1) PUZ-ZM250YKA2 (3) PCA-M71HA2 / (1) PUZ-M250YKA2	R32 Power Inverter Stainless Steel Ceiling Suspended, Triple System, Three Phase R32 Standard Inverter Stainless Steel Ceiling Suspended, Triple System, Three Phase

R32 Mr Slim Twin / Triple / Quadruple Multi-Split Systems

Inverter Heat Pump Units



QUADRUPLE SYSTEMS	DESCRIPTION
(4) PLA-ZM50EA2 / (1) PUZ-ZM200YKA2 (4) PLA-ZM60EA2 / (1) PUZ-ZM250YKA2 (4) SLZ-M35FA2 / (1) PUZ-ZM125VKA2 (4) SLZ-M35FA2 / (1) PUZ-ZM140VKA2 (4) SLZ-M35FA2 / (1) PUZ-ZM125YKA2 (4) SLZ-M35FA2 / (1) PUZ-ZM140YKA2	R32 Power Inverter Cassette, Quadruple System, Three phase R32 Power Inverter Cassette, Quadruple System, Three phase R32 Power Inverter Cassette, Quadruple System, Single phase R32 Power Inverter Cassette, Quadruple System, Single phase R32 Power Inverter Cassette, Quadruple System, Three phase R32 Power Inverter Cassette, Quadruple System, Three phase
(4) PLA-M50EA2 / (1) PUZ-M200YKA2 (4) PLA-M60EA2 / (1) PUZ-M250YKA2	R32 Standard Inverter Cassette, Quadruple System, Three phase R32 Standard Inverter Cassette, Quadruple System, Three phase
(4) PKA-M50LA2 / (1) PUZ-ZM200YKA2 (4) PKA-M60KA2 / (1) PUZ-ZM250YKA2	R32 Power Inverter Wall Mounted, Quadruple System, Three Phase R32 Power Inverter Wall Mounted, Quadruple System, Three Phase
(4) PKA-M50LA2 / (1) PUZ-M200YKA2 (4) PKA-M60KA2 / (1) PUZ-M250YKA2	R32 Standard Inverter Wall Mounted, Quadruple System, Three Phase R32 Standard Inverter Wall Mounted, Quadruple System, Three Phase
(4) PEAD-M50JA2 / (1) PUZ-ZM200YKA2 (4) PEAD-M60JA2 / (1) PUZ-ZM250YKA2 (4) SEZ-M35DA2 / (1) PUZ-ZM125VKA2 (4) SEZ-M35DA2 / (1) PUZ-ZM140VKA2 (4) SEZ-M35DA2 / (1) PUZ-ZM125YKA2 (4) SEZ-M35DA2 / (1) PUZ-ZM140YKA2	R32 Power Inverter Ceiling Concealed Ducted, Quadruple System, Three Phase R32 Power Inverter Ceiling Concealed Ducted, Quadruple System, Three Phase R32 Power Inverter Ceiling Concealed Ducted, Quadruple System, Single Phase R32 Power Inverter Ceiling Concealed Ducted, Quadruple System, Single Phase R32 Power Inverter Ceiling Concealed Ducted, Quadruple System, Three Phase R32 Power Inverter Ceiling Concealed Ducted, Quadruple System, Three Phase
(4) PEAD-M50JA2 / (1) PUZ-M200YKA2 (4) PEAD-M60JA2 / (1) PUZ-M250YKA2	R32 Standard Inverter Ceiling Concealed Ducted, Quadruple System, Three Phase R32 Standard Inverter Ceiling Concealed Ducted, Quadruple System, Three Phase
(4) PCA-M50KA2 / (1) PUZ-ZM200YKA2 (4) PCA-M60KA2 / (1) PUZ-ZM250YKA2	R32 Power Inverter Ceiling Suspended, Quadruple System, Three Phase R32 Power Inverter Ceiling Suspended, Quadruple System, Three Phase
(4) PCA-M50KA2 / (1) PUZ-M200YKA2 (4) PCA-M60KA2 / (1) PUZ-M250YKA2	R32 Standard Inverter Ceiling Suspended, Quadruple System, Three Phase R32 Standard Inverter Ceiling Suspended, Quadruple System, Three Phase

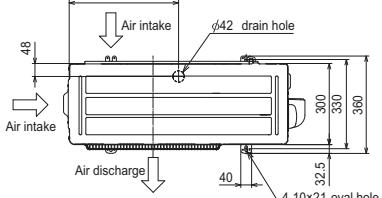
PIPE KITS	DESCRIPTION
MSDD-50TR2-E	R32 Multi distribution pipe twin units - 50:50 - sizes 71/100/125/140
MSDD-50WR2-E	R32 Multi distribution pipe twin units - 50:50 - sizes 200/250
MSDT-111R3-E	R32 Multi distribution pipe triple units - 33:33:33 - sizes 100/125/140/200/250
MSDF-1111R2-E	R32 Multi distribution pipe quadruple units - 25:25:25:25 - sizes 125/140/200/250

Power Inverter Outdoor Units

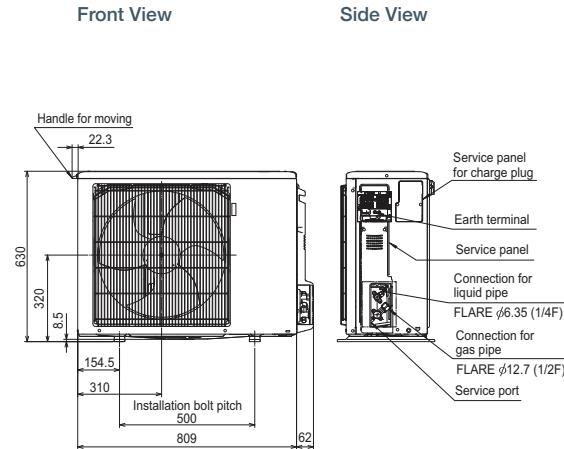
Product Dimensions

PUZ-ZM35/50VKA2

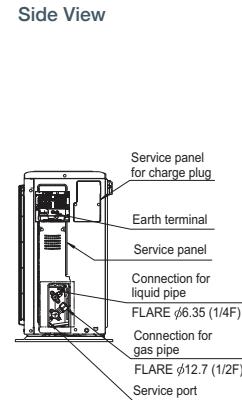
Upper View



Front View



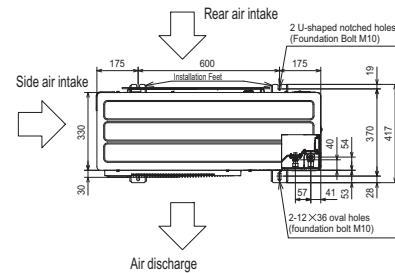
Side View



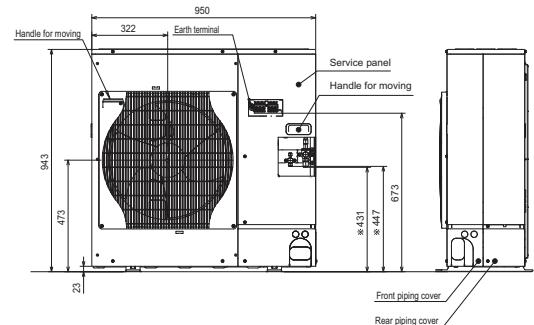
Product Dimensions

PUZ-ZM60/71VHA2

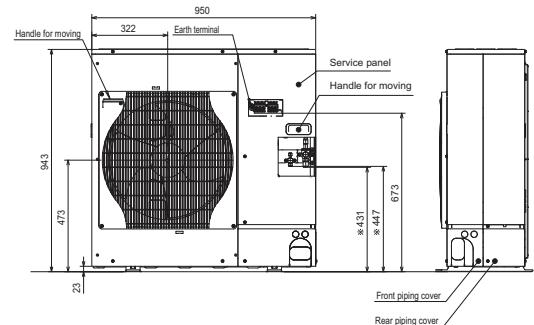
Upper View



Front View



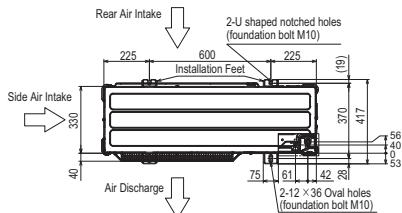
Side View



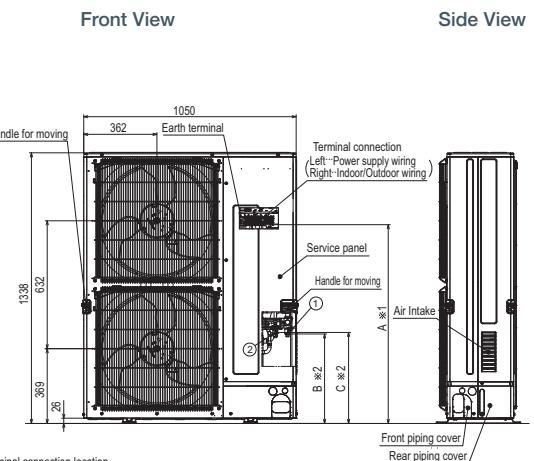
Product Dimensions

PUZ-ZM100/125/140VKA2, PUZ-ZM100/125/140YKA2

Upper View



Front View



Side View

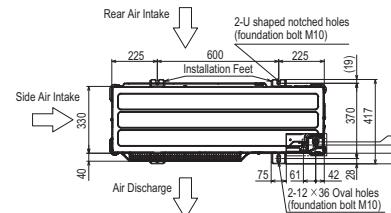
MODEL	A	B	C
PUZ-ZM100-140VKA2	1067	442	450
PUZ-ZM100-140YKA2	919	442	450

*1--Indication of Terminal connection location.
*2--Indication of STOP VALVE connection location.

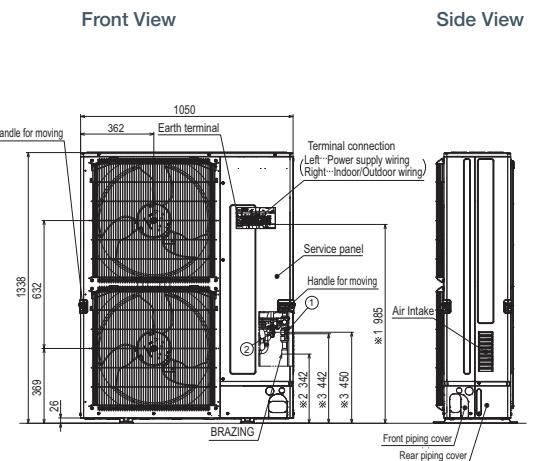
Product Dimensions

PUZ-ZM200/250YKA2

Upper View



Front View



Side View

Model	① Refrigerant GAS pipe connection	② Refrigerant LIQUID pipe connection
PUZ-ZM200YKA2	ø28.58 (1 1/8F)	ø9.52 (3/8F)
PUZ-ZM250YKA2	ø28.58 (1 1/8F)	ø12.7 (1/2F)

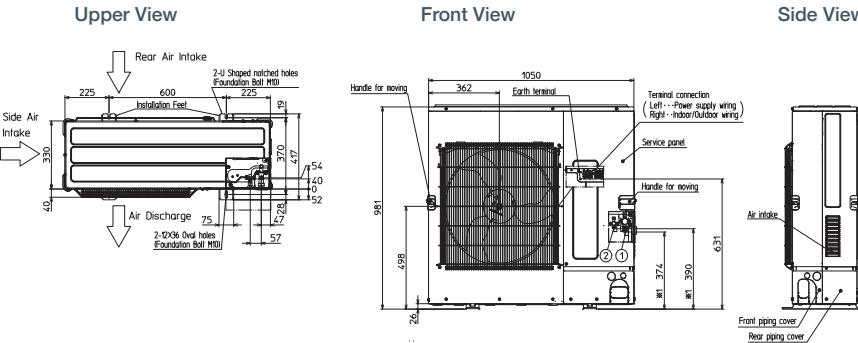
*1--Indication of Terminal connection location
*2--Refrigerant GAS pipe connection (BRAZING) Ø.Dø25.4.
*3--Indication of STOP VALVE connection location.

BRAZING

Standard Inverter / Inverter Outdoor Units

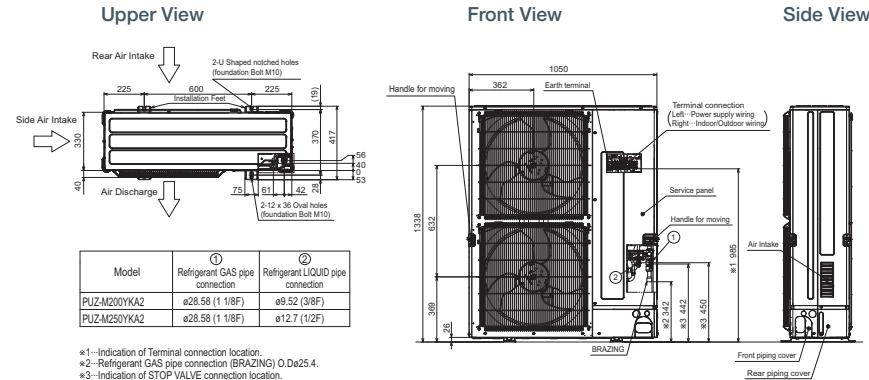
Product Dimensions

**PUZ-M100/125/140VKA2, PUZ-M100/125/140YKA2,
PUZ-SM100/125/140VKA2, PUZ-SM100/125/140YKA2**



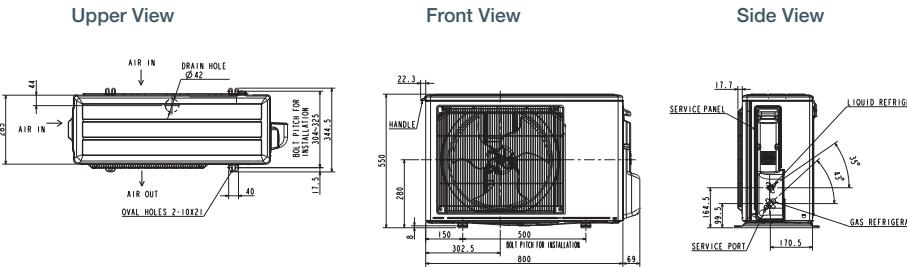
Product Dimensions

PUZ-M200/250YKA2



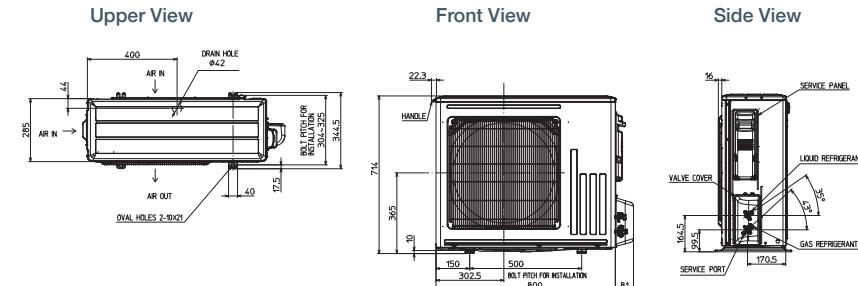
Product Dimensions

SUZ-M25/35VAR2



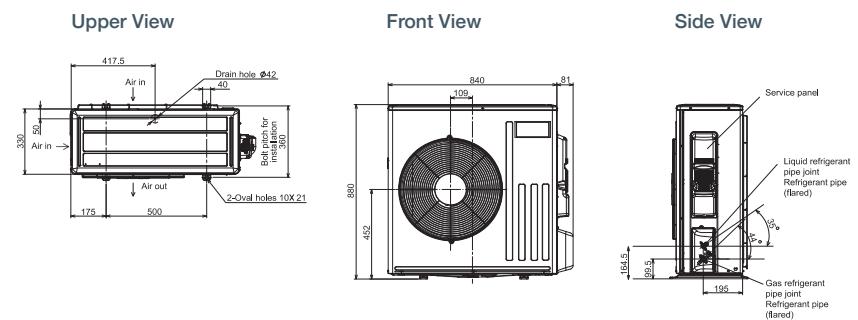
Product Dimensions

SUZ-M50VAR2



Product Dimensions

SUZ-M60VAR2, SUZ-M71VAR1, SUZ-SM71VA



Mr Slim Accessories / Optional Extras

4-WAY BLOW CASSETTE UNITS		DESCRIPTION
SLP-2FA		Grille for SLZ-M
SLP-2FAE		3D i-see sensor grille for SLZ-M
PLP-6EA		Grille for PLA-ZM / PLA-M / PLA-SM
PLP-6EA-B		Black grille (Satin finish) for PLA-ZM / PLA-M / PLA-SM
PLP-6EAE		3D i-see sensor grille for PLA-ZM / PLA-M
PLP-6EAJ		Self elevating grille for PLA-ZM / PLA-M / PLA-SM
PAC-SE1ME-E		Corner panel with 3D i-see sensor for PLA-ZM / PLA-M
PAR-SE9FA-E		Corner panel with signal receiver for PLA-ZM / PLA-M / PLA-SM
PAC-SJ37SP-E		Shutter plate for PLA-ZM / PLA-M / PLA-SM
PAC-SJ41TM-E		Multi-function casement for PLA-ZM / PLA-M / PLA-SM
PLP-U160ELR-E		3D Total Airflow casement for PLA-ZM35-140EA2 / PLA-M100-140EA2 (must be used with either PAR-41MAA or PAR-SL101A-E)
PAC-SK36HK-E		Insulation kit (14°C cooling) for PLA-ZM35-140EA2 / PLA-M100-140EA2
PAC-SH59KF-E		High efficiency filter for PLA-ZM / PLA-M / PLA-SM (must be used with PAC-SJ41TM-E)
PAR-SL101A-E		Wireless remote controller for PLA-ZM / PLA-M / PLA-SM
PAC-SK53KF-E		V Blocking air purifying filter for PLA-ZM / PLA-M / PLA-SM
PAC-SK54KF-E		V Blocking air purifying filter for SLZ-M
PAC-SK51FT-E		Plasma Quad Connect air purifying device (x1) with multi-function casement for PLA-ZM / PLA-M / PLA-SM

WALL MOUNTED UNITS		DESCRIPTION
PAR-FL32MA		Wireless remote controller
PAR-SL101A-E		Wireless remote controller
MAC-100FT-E		Plasma Quad Connect air purifying device for PKA-M

CEILING CONCEALED DUCTED UNITS		DESCRIPTION
MAC-100FT-E		Plasma Quad Connect air purifying device for PEAD-M / SEZ-M
PAC-HA31PAR		Plasma Quad Connect metal fitment for PEAD-M
PAC-HA11PAR		Plasma Quad Connect metal fitment for SEZ-M

CEILING SUSPENDED UNITS		DESCRIPTION
PAR-SL94B		Wireless remote controller and adaptor
PAC-SG38KF		Oil mist filter for PCA-M71HA2 (12 pack)

Mr Slim Accessories / Optional Extras

OUTDOOR UNITS	DESCRIPTION
PAC-SJ08DS	Drain socket set for PUZ-ZM35-50
PAC-SG61DS	Drain socket set for PUZ-ZM60-250 / PUZ-(S)M100-250
PAC-SJ07SG	Air outlet guide for PUZ-ZM35-50
PAC-SG59SG	Air outlet guide for PUZ-ZM60-71
PAC-SH96SG	Air outlet guide for PUZ-ZM100-250 / PUZ-(S)M100-250
PAC-SJ06AG	Air protect guide (allows cooling at -15°C) for PUZ-ZM35-50
PAC-SH63AG	Air protect guide (allows cooling at -15°C) for PUZ-ZM60-71
PAC-SH95AG	Air protect guide (allows cooling at -15°C) for PUZ-ZM100-250 / PUZ-(S)M100-250
MAC-881SG	Air outlet guide for SUZ-M35
MAC-882SG	Air outlet guide for SUZ-M50
MAC-886SG	Air outlet guide for SUZ-M60-71 / SUZ-SM71
PAC-SJ71FM-E	30Pa outdoor fan motor for PUZ-ZM100-140

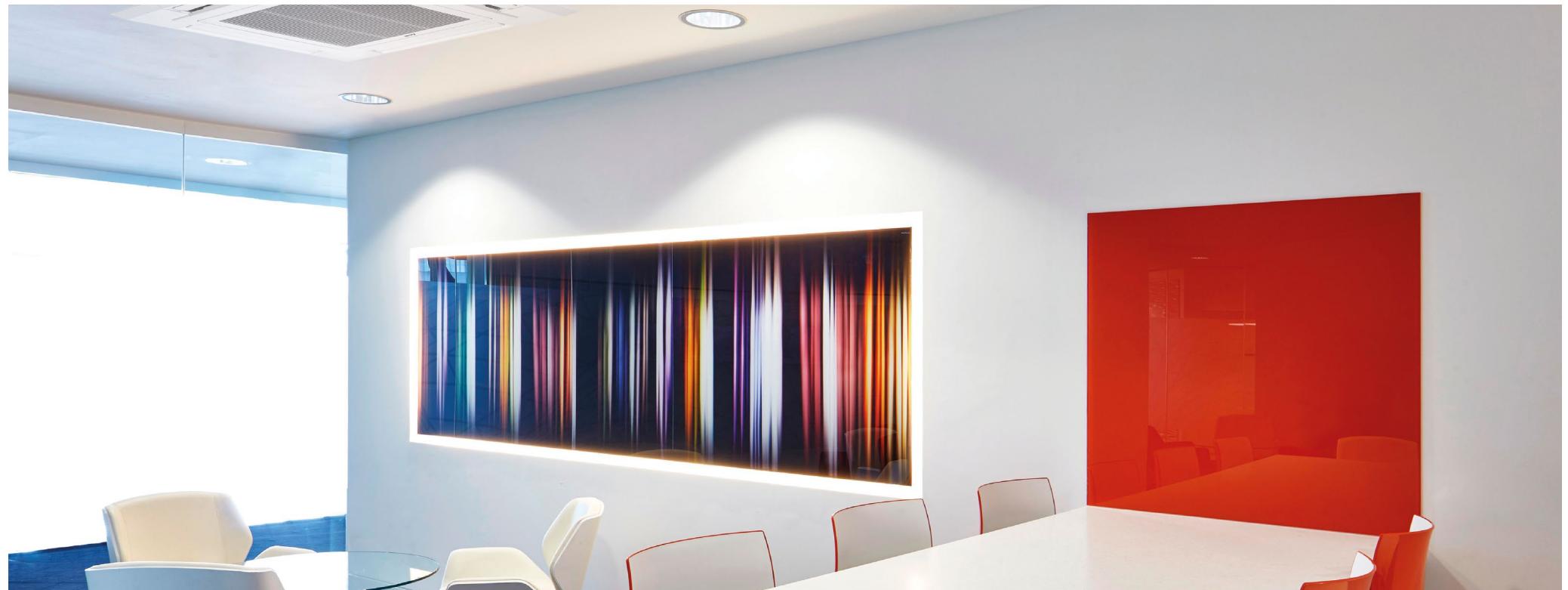
SYSTEM CONTROL UNITS	DESCRIPTION
PAC-SA89TA	Remote on/off adaptor (3 wire adaptor)
PAC-SA88HA	Run/fault adaptor (5 wire adaptor)
PAC-SF40RM	Run/fault interface
MAC-334IF-E	Interface for M-NET, MA remote controller (PAR-41MAA / PAR-CT01MAA), on/off input and run/fault output. Now includes a heating interlock mode - when SUZ or MXZ
MAC-497IF-E	Interface for MA remote controller (PAR-41MAA) - when SUZ or MXZ
PAC-SE41TS-E	Remote sensor
MAC-587IF-E	Interface for connection to Wi-Fi MELCloud service
PAC-SK15MA-E	M-NET adaptor for PUZ-ZM35-50
PAC-SJ95MA	M-NET adaptor for PUZ-ZM60-250 / PUZ-(S)M100-250
PAR-CT01MAA-SB	Touch screen wired remote controller
PAR-CT01MAA-PB	Touch screen wired remote controller (Premium Finish)
PAR-41MAA	Standard wired remote controller
MELCOBEMS MINI (A1M+)	Modbus and BACnet MSTP CN105 adaptor
MELCORETAIL MINI	Retail control and input/output interface

POWER SUPPLY TERMINAL KITS	DESCRIPTION
PAC-SJ39HR	Power supply terminal kit for PLA-ZM and PLA-M
PAC-SK38HR	Power supply terminal kit for PKA-M35-50LA2
PAC-SG94HR	Power supply terminal kit for PKA-M60-100KA2
PAC-SG96HR	Power supply terminal kit for PCA-M / PSA-M
PAC-SG97HR	Power supply terminal kit for PEAD-M / PCA-M-HA2



Multi-Splits

Split-System Air Conditioning





Contents

MXZ-F R32 Inverter Heat Pump Multi-Split Units	1.4.8
MXZ-HA R32 Inverter Heat Pump Multi-Split Units	1.4.10
PUMY-SP R410A Inverter Heat Pump Multi-Split Units (Single Fan)	1.4.12
PUMY-P R410A Inverter Heat Pump Multi-Split Units (Twin Fan)	1.4.14
Multi-Split Accessories / Optional Extras	1.4.16

The Flexible & Efficient Multi-Split Range

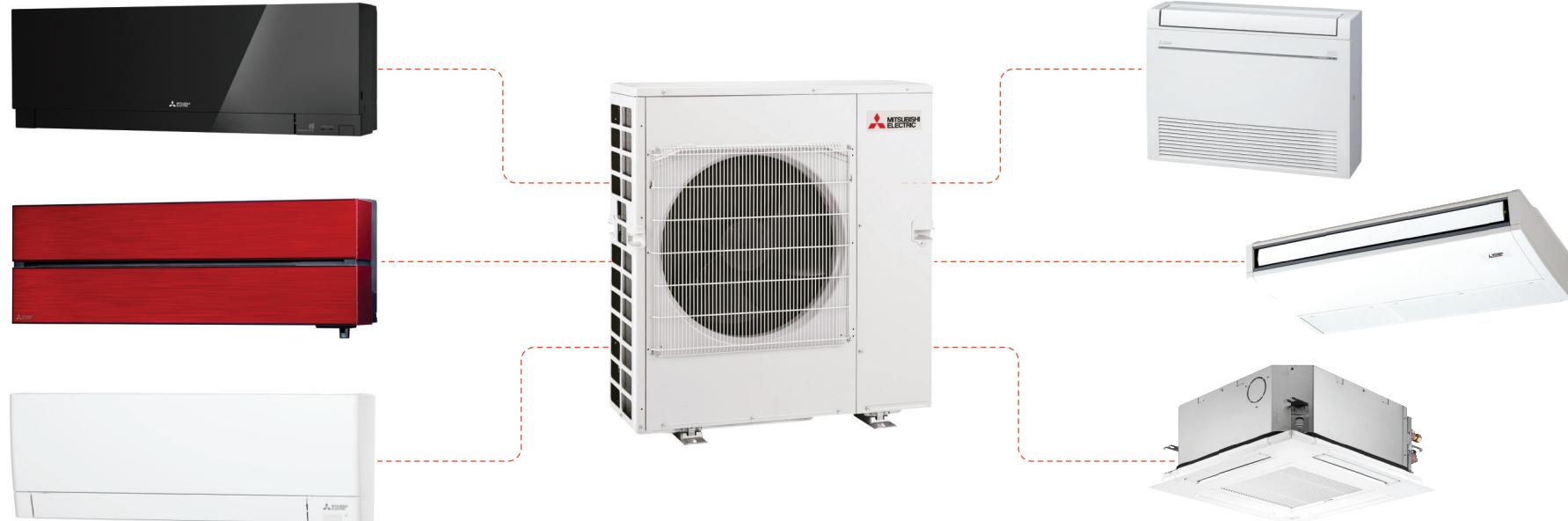


Ideal for residential, retail and small commercial buildings that require air conditioning in more than one room, Mitsubishi Electric Multi-Split systems combine flexibility and performance while lowering CO₂ emissions and running costs.

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

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

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



The Flexible & Efficient Multi-Split Range

Outdoor Units

R32		MXZ-2F33VF4 ■ 2 indoor units ■ Nominal cooling capacity 3.3kW	MXZ-2F42VF4 ■ 2 indoor units ■ Nominal cooling capacity 4.2kW	MXZ-2F53VF4 ■ 2 indoor units ■ Nominal cooling capacity 5.3kW
R32		MXZ-3F54VF4 ■ 2-3 indoor units ■ Nominal cooling capacity 5.4kW	MXZ-3F68VF4 ■ 2-3 indoor units ■ Nominal cooling capacity 6.8kW	MXZ-4F72VF4 ■ 2-4 indoor units ■ Nominal cooling capacity 7.2kW
R32		MXZ-4F83VF2 ■ 2-4 indoor units ■ Nominal cooling capacity 8.3kW	MXZ-5F102VF2 ■ 2-5 indoor units ■ Nominal cooling capacity 10.2kW	
R32		MXZ-6F120VF2 ■ 2-6 indoor units ■ Nominal cooling capacity 12.0kW		
R32		MXZ-2HA40VF2 ■ 2 MSZ-HR indoor units ■ Nominal cooling capacity 4.0kW	MXZ-2HA50VF2 ■ 2 MSZ-HR indoor units ■ Nominal cooling capacity 5.0kW	
R32		MXZ-3HA50VF2 ■ 2-3 MSZ-HR indoor units ■ Nominal cooling capacity 5.0kW		
		PUMY-SP112-140V рука KM2/YKM2 ■ 2-10 indoor units ■ Nominal cooling capacity 12.5 - 15.5kW		
		PUMY-P112-140V рука KM6/YKM5 / PUMY-P200Y рука KM3 ■ 2-11 indoor units ■ Nominal cooling capacity 12.5 - 22.4kW		
		PUMY-P250-300Y рука BM2 ■ 2-30 indoor units ■ Nominal cooling capacity 28.0 - 33.5kW		

Multi-Splits | Split-System Air Conditioning

The Flexible & Efficient Multi-Split Range

Indoor Units

Wall Mounted

MSZ-LN



MSZ-EF



MSZ-AP / MSZ-AY



MSZ-HR



Floor Mounted

MFZ-KT



SFZ-M



Ceiling Cassette

SLZ-M



PLA-M



Ceiling Concealed Ducted

SEZ-M



PEAD-M



Ceiling Suspended

PCA-M



Compatibility Table

Model	MXZ-2F33VF4	MXZ-2F42VF4	MXZ-2F53VF4	MXZ-3F54VF4	MXZ-3F68VF4	MXZ-4F72VF4	MXZ-4F83VF2	MXZ-5F102VF2	MXZ-6F120VF2	MXZ-2HA40VF2	MXZ-2HA50VF2	MXZ-3HA50VF2	PUMY-SP	PUMY-P	PUHY / PURY
	Branch Box	LEV Kit	Branch Box	LEV Kit	LEV Kit										
Wall Mounted															
MSZ-LN18VG2	●	●	●	●	●	●	●	●	●						
MSZ-LN25VG2	●	●	●	●	●	●	●	●	●				●	●	●
MSZ-LN35VG2	●	●	●	●	●	●	●	●	●				●	●	●
MSZ-LN50VG2													●	●	●
MSZ-EF18VGK	●	●	●	●	●	●	●	●	●				●	●	●
MSZ-EF22VGK	●	●	●	●	●	●	●	●	●				●	●	●
MSZ-EF25VGK	●	●	●	●	●	●	●	●	●				●	●	●
MSZ-EF35VGK	●	●	●	●	●	●	●	●	●				●	●	●
MSZ-EF50VGK													●	●	●
MSZ-AP15VGK	●	●	●	●	●	●	●	●	●				●	●	●
MSZ-AP20VGK	●	●	●	●	●	●	●	●	●				●	●	●
MSZ-AY25VGK	●	●	●	●	●	●	●	●	●				●	●	●
MSZ-AY35VGK	●	●	●	●	●	●	●	●	●				●	●	●
MSZ-AY42VGK	●	●	●	●	●	●	●	●	●				●	●	●
MSZ-AY50VGK				●	●	●	●	●	●				●	●	●
MSZ-AP60VGK					●	●	●	●	●						
MSZ-AP71VGK						●	●	●	●						
MSZ-HR25VF										●	●	●			
MSZ-HR35VF										●	●	●			
MSZ-HR50VF										●					
Floor Mounted															
MFZ-KT25VG	●	●	●	●	●	●	●	●	●				●	●	●
MFZ-KT35VG	●	●	●	●	●	●	●	●	●				●	●	●
MFZ-KT50VG				●	●	●	●	●	●				●	●	●
SFZ-M25VA	●	●	●	●	●	●	●	●	●						
SFZ-M35VA	●	●	●	●	●	●	●	●	●						
SFZ-M50VA				●	●	●	●	●	●						
SFZ-M60VA						●	●	●	●						
SFZ-M71VA						●	●	●	●						
Ceiling Cassette															
SLZ-M15FA2	●	●	●	●	●	●	●	●	●				●	●	●
SLZ-M25FA2	●	●	●	●	●	●	●	●	●				●	●	●
SLZ-M35FA2	●	●	●	●	●	●	●	●	●				●	●	●
SLZ-M50FA2				●	●	●	●	●	●				●	●	●
PLA-M35EA2													●		
PLA-M50EA2													●		
PLA-M60EA2													●		
PLA-M71EA2													●		
PLA-M100EA2													●		
Ceiling Concealed Ducted															
SEZ-M25DA2	●	●	●	●	●	●	●	●	●				●	●	●
SEZ-M35DA2	●	●	●	●	●	●	●	●	●				●	●	●
SEZ-M50DA2				●	●	●	●	●	●				●	●	●
SEZ-M60DA2					●	●	●	●	●				●	●	●
SEZ-M71DA2						●	●	●	●				●	●	●
PEAD-M35JA2					●	●	●	●	●						
PEAD-M50JA2					●	●	●	●	●				●	●	●
PEAD-M60JA2						●	●	●	●				●	●	●
PEAD-M71JA2							●	●	●				●	●	●
PEAD-M100JA2													●	●	●
Ceiling Suspended															
PCA-M50KA2							●	●					●	●	●
PCA-M60KA2							●	●					●	●	●
PCA-M71KA2								●					●	●	●
PCA-M100KA2													●	●	●

Note: For MXZ Multi-Split capacity combination tables please refer to databook. PUMY-P250/300YBM2 are not compatible with SLZ-M, PLA-M, SEZ-M, PEAD-M & PCA-M.

MXZ-F R32 Inverter Heat Pump (3.3-12kW)

Multi-Split Units



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

Key Features & Benefits

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



MXZ-F - OUTDOOR UNITS	MXZ-2F33VF4	MXZ-2F42VF4	MXZ-2F53VF4	MXZ-3F54VF4	MXZ-3F68VF4	MXZ-4F72VF4	MXZ-4F83VF2	MXZ-5F102VF2	MXZ-6F120VF2
NUMBER OF CONNECTABLE INDOOR UNITS	2	2	2	2 - 3	2 - 3	2 - 4	2 - 4	2 - 5	2 - 6
CAPACITY (kW)	Heating (nominal) 3.3 (1.1-3.8)	4.0 (1.0-4.1) 4.2 (1.1-4.4)	6.4 (1.1-7.0) 5.3 (1.1-5.6)	7.0 (2.6-9.0) 5.4 (2.9-6.8)	8.6 (2.6-10.6) 6.8 (2.9-8.4)	8.6 (3.4-10.7) 7.2 (3.7-8.8)	9.3 (3.4-11.6) 8.3 (3.7-9.2)	10.5 (4.1-14.0) 10.2 (3.9-11.0)	14.0 (3.5-16.5) 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)* ¹	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 (nsh) / SEER (nsc) (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 (165.8%) / 8.51 (37.4%)	4.65 (163%) / 8.21 (325.4%)	4.0 (157%) / 6.8 (269%)
ErP ENERGY EFFICIENCY CLASS	A+ / A++	A++ / A+++	A++ / A+++	A++ / A+++	A+ / A++	A+ / A++	A++ / A+++	A++ / A++	A+ / A++
MAX AIRFLOW (m³/min)	Heating/Cooling 33.7 / 32.9	33.3 / 27.7	34.7 / 32.7	43.0 / 42.1	43.0 / 42.1	43.0 / 42.1	71 / 55	74 / 62	77 / 63
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling 50 / 49	50 / 44	51 / 46	50 / 46	53 / 48	54 / 48	51 / 49	56 / 52	57 / 55
SOUND POWER LEVEL (dBA)	Cooling 60	59	61	59	63	63	61	65	69
DIMENSIONS (mm)	Width x Depth x Height 800 x 285 x 550	800 x 285 x 550	800 x 285 x 550	840 x 330 x 710	840 x 330 x 710	840 x 330 x 710	950 x 330 x 796	950 x 330 x 796	950 x 330 x 1048
WEIGHT (kg)	33	37	37	58	58	59	62	62	87
ELECTRICAL SUPPLY	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
PHASE	Single	Single	Single	Single	Single	Single	Single	Single	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 (10 if OU higher than IU)	15 (10 if OU higher than IU)	15	15			
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) - R32 (GWP 675)	0.8 / 0.54 (20m)	1.0 / 0.68 (30m)	1.0 / 0.68 (30m)	2.4 / 1.62 (50m)	2.4 / 1.62 (60m)	2.4 / 1.62 (60m)	2.4 / 1.62 (70m)	2.4 / 1.62 (80m)	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.

Accessories

Outdoor Units

MAC-881SG

Air outlet guide for MXZ-2F33VF4, MXZ-2F42VF4, MXZ-2F53VF4

MAC-856SG

Air outlet guide for MXZ-3F54VF4, MXZ-3F68VF4, MXZ-4F72VF4

PAC-SH96SG-E

Air outlet guide for MXZ-4F83VF2, MXZ-5F102VF2, MXZ-6F120VF2

System Control Units

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB = Premium finish)

MAC-334IF-E

Interface for M-NET, MA remote controller
(PAR-41MAA / PAR-CT01MAA),
on/off input and run/fault output

MAC-497IF-E

Interface for MA remote controller
(PAR-41MAA / PAR-CT01MAA)

MAC-587IF-E

Interface for connection to Wi-Fi MELCloud service

PAR-41MAA

Standard wired remote controller

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

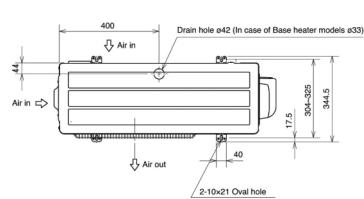
MELCORETAIL MINI

Retail control and input / output interface

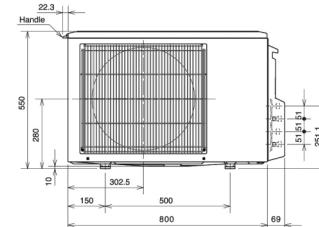
Product Dimensions

MXZ-2F33VF4, MXZ-2F42VF4, MXZ-2F53VF4

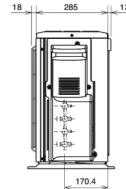
Upper View



Front View



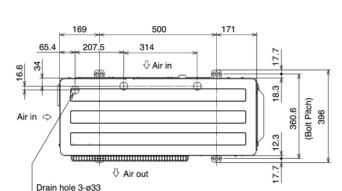
Side View



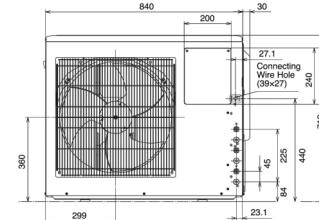
Product Dimensions

MXZ-3F54VF4, MXZ-3F68VF4, MXZ-4F72VF4

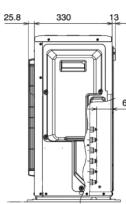
Upper View



Front View



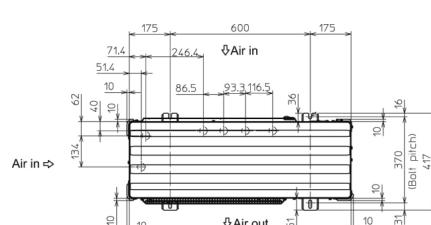
Side View



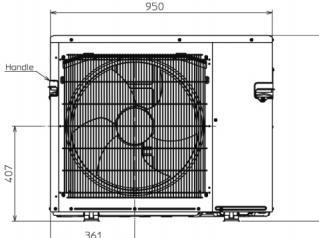
Product Dimensions

MXZ-4F83VF2, MXZ-5F102VF2

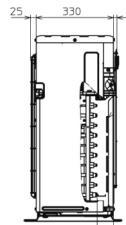
Upper View



Front View



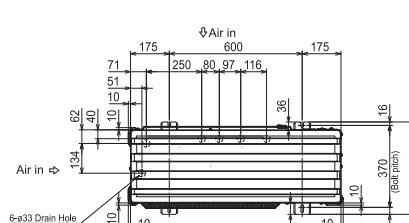
Side View



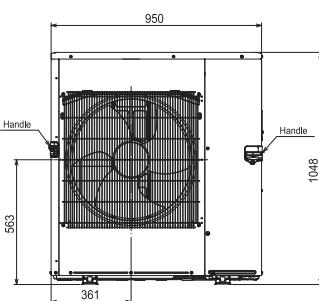
Product Dimensions

MXZ-6F120VF2

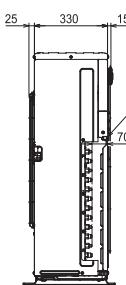
Upper View



Front View



Side View



MXZ-HA R32 Inverter Heat Pump (4-5kW)

Multi-Split Units



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

Key Features & Benefits

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

R32

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) Cooling (nominal) 4.0 (1.1 - 4.3) Heating (UK) 3.61 (0.84 - 3.95) Cooling (UK) 4.00 (1.10 - 4.30)	4.30 / 8.12	6.0 (1.0 - 6.4) 5.0 (1.1 - 5.4) 5.04 (0.84 - 5.38) 5.00 (1.10 - 5.40)	6.0 (2.6 - 7.5) 5.0 (2.9 - 6.5) 5.04 (2.18 - 6.30) 4.50 (2.61 - 5.85)
COP / EER (nominal)	4.73 / 3.81	3.90 / 3.29	4.62 / 3.97	
SCOP (η_{sh}) / SEER (η_{sc}) (BS EN14825)	4.30 / 8.12	4.30 / 7.78	4.02 / 7.26	
ErP ENERGY EFFICIENCY CLASS	Heating/Cooling A+ / A++	A+ / A++	A+ / A++	
MAX AIRFLOW (m³/min)	Heating/Cooling 33.5 / 28.4	34.7 / 32.7	29.1 / 31.0	
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling 50 / 44	51 / 47	50 / 46	
SOUND POWER LEVEL (dBA)	Cooling 59	64	61	
DIMENSIONS (mm)	Width x Depth x Height 800 x 285 x 550	800 x 285 x 550	840 x 330 x 710	
WEIGHT (kg)	37	37	57	
ELECTRICAL SUPPLY	220-240V, 50Hz	220-240V, 50Hz	220-240V, 50Hz	
PHASE	Single	Single	Single	
POWER INPUT (kW)	Heating/Cooling (nominal) 0.91 / 1.05 Heating/Cooling (UK) 0.82 / 0.90	1.54 / 1.52 1.39 / 1.31	1.30 / 1.26 1.17 / 1.08	
STARTING CURRENT (A)	7.6	7.6	6.7	
RUNNING CURRENT (A)	Heating/Cooling [MAX] 4.4 / 4.7 [12.2]	6.6 / 6.5 [12.2]	5.6 / 5.4 [18.0]	
INTERCONNECTING CABLE No. CORES	4 Core	4 Core	4 Core	
TOTAL PIPE LENGTH (m)	30	30	50	
MAX PIPE LENGTH PER INDOOR UNIT (m)	20	20	25	
MAX HEIGHT DIFFERENCE (m)	15 (10 if OU higher than IU)	15 (10 if OU higher than IU)	15 (10 if OU higher than IU)	
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) - R32 (GWP 675)	0.9 / 0.61	0.9 / 0.61	1.4 / 0.95	
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) - R32 (GWP 675)	0	0	0.2 / 0.14	
FUSE RATING (BS88) - HRC (A)	16	16	20	

Notes: MSZ-HR connection only.

Accessories

Outdoor Units

MAC-881SG

Air outlet guide for MXZ-2HA40VF2, MXZ-2HA50VF2

MAC-856SG

Air outlet guide for MXZ-3HA50VF2

System Control Units

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB = Premium finish)

MAC-334IF-E

Interface for M-NET, MA remote controller
(PAR-41MAA / PAR-CT01MAA),
on/off input and run/fault output

MAC-497IF-E

Interface for MA remote controller
(PAR-41MAA / PAR-CT01MAA)

MAC-587IF-E

Interface for connection to Wi-Fi MELCloud service

PAR-41MAA

Standard wired remote controller

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

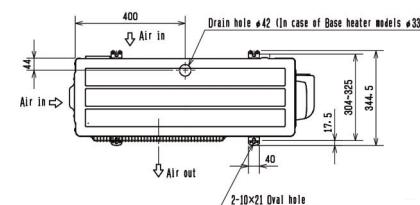
MELCORETAIL MINI

Retail control and input / output interface

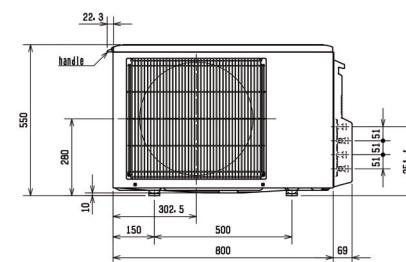
Product Dimensions

MXZ-2HA40/50VF2

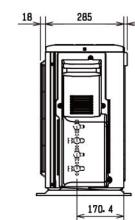
Upper View



Front View



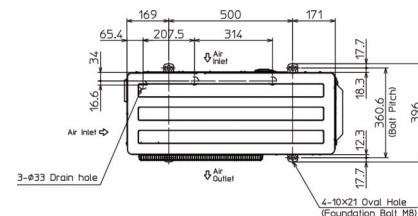
Side View



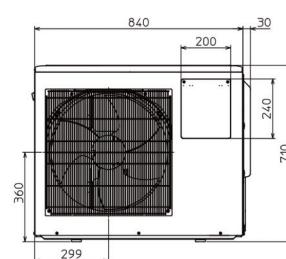
Product Dimensions

MXZ-3HA50VF2

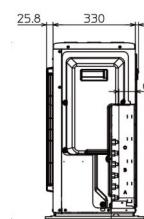
Upper View



Front View



Side View



PUMY-SP R410A Inverter Heat Pump (12.5-15.5kW)

Multi-Split Units



The **PUMY-SP** Inverter Heat Pump system allows up to 10 indoor units to be connected to one single fan outdoor unit. Compatibility with City Multi, Mr Slim and the stylish M Series indoor units makes this an extremely flexible, economic, and energy-efficient solution for multi-room applications. With a slimline design and operation modes relevant to built-up areas, these systems are ideal for high-end residential and smaller commercial applications in city centres, or areas with limited outdoor space.

Key Features & Benefits

- Low height, small footprint, long pipe-runs and wall-hanging capability provides flexibility of install
- Compatible with M Series, Mr Slim and City Multi indoor units (M Series & Mr Slim units via branch box or LEV Kit)
- Choice of operation mode: 'silent mode' for noise sensitive areas or 'demand control' for maximum efficiency
- Unique fan capability provides 30 Pascals of static pressure as standard



PUMY-SP - OUTDOOR UNITS	PUMY-SP112VKM2	PUMY-SP112YKM2	PUMY-SP125VKM2	PUMY-SP125YKM2	PUMY-SP140VKM2	PUMY-SP140YKM2
NUMBER OF CONNECTABLE INDOOR UNITS	Branch box / Mixed ¹	8 / 10	8 / 10	8 / 10	8 / 10	8 / 10
CAPACITY (kW)						
Heating (nominal)	14.0	14.0	16.0	16.0	16.5	16.5
Cooling (nominal)	12.5	12.5	14.0	14.0	15.5	15.5
Heating (UK)	14.0	14.0	16.0	16.0	16.5	16.5
Cooling (UK)	9.8	9.8	11.0	11.0	12.2	12.2
COP / EER (nominal)	3.83 / 2.80	3.83 / 2.80	3.71 / 2.74	3.71 / 2.74	3.78 / 2.90	3.78 / 2.90
MAX AIRFLOW (m³/min)	77	77	83	83	83	83
SOUND PRESSURE LEVEL (dBA)	52	52	53	53	54	54
SOUND POWER LEVEL (dBA)	Cooling	72	72	73	74	74
DIMENSIONS (mm)	Width x Depth x Height	1050 x 330+40 x 981				
WEIGHT (kg)		93	94	93	94	94
ELECTRICAL SUPPLY		220-240v, 50Hz	380-415v, 50Hz	220-240v, 50Hz	380-415v, 50Hz	220-240v, 50Hz
PHASE		Single	Three	Single	Three	Single
POWER INPUT (kW)	Heating/Cooling (nominal)	3.66 / 4.46	3.66 / 4.46	4.31 / 5.11	4.31 / 5.11	4.36 / 5.34
	Heating/Cooling (UK)	4.69 / 2.08	4.69 / 2.08	5.52 / 2.38	5.52 / 2.38	5.58 / 2.49
STARTING CURRENT (A)		14	7	14	7	14
RUNNING CURRENT (A)	Heating/Cooling [MAX]	16.24 / 19.79 [30.5]	5.57 / 6.78 [13.0]	19.13 / 22.68 [30.5]	6.55 / 7.77 [13.0]	19.35 / 23.70 [30.5]
FUSE RATING (BS88) - HRC (A)		1 x 32	1 x 16	1 x 32	1 x 16	1 x 32
PIPE SIZE MM (in)	Gas	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
	Liquid	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
TOTAL PIPING LENGTH (M)	Branch box / Mixed ¹	120	120	120	120	120
FURTHEST PIPING LENGTH (M) (with no branch boxes)		80 (70)	80 (70)	80 (70)	80 (70)	80 (70)
BETWEEN BRANCH BOXES AND OUTDOOR UNIT - LENGTH (m)		55	55	55	55	55
BETWEEN BRANCH BOXES AND INDOOR UNIT - LENGTH (m)		25	25	25	25	25
BETWEEN INDOOR AND OUTDOOR UNIT - HEIGHT (m)		50m max ²				
BETWEEN INDOOR AND INDOOR UNITS - HEIGHT (m)		12	12	12	12	12
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088)	3.5 / 7.31	3.5 / 7.31	3.5 / 7.31	3.5 / 7.31	3.5 / 7.31
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088)	9.0 / 18.79	9.0 / 18.79	9.0 / 18.79	9.0 / 18.79	9.0 / 18.79

Notes: *1 Branch box - only using branch boxes (PAC-MK) on the system. Mixed - using a mix of branch boxes (PAC-MK) and City Multi indoor units on the same system. *2 40m max if outdoor installed below. 30m if mixed system.
SCOP / SEER available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 6 to EN14825 standard.

PAC-MK - BRANCH BOX	PAC-MK53BC	PAC-LV - LEV KIT INTERFACE	PAC-LV11M
NUMBER OF CONNECTABLE INDOOR UNITS	5		
COMPATIBLE INDOOR UNITS	M Series, Mr Slim		
WEIGHT (kg)	7.9		
DIMENSIONS (mm)	Width x Depth x Height	450 x 280 x 170	
POWER SUPPLY TO BRANCH BOX ¹	From outdoor unit	3 core + earth	
	Separate supply	220-240v, 50Hz / Single Phase	
	Separate supply fuse rating (BS88) - HRC (A)	6	
POWER SUPPLY TO INDOOR UNITS	From branch box	3 core + earth	

Note: *1 Either option is available for power supply from outdoor unit OR from a separate supply.

Note: The indoor unit connected to the PAC-LV11 cannot be grouped with other City Multi indoor units. Group control with other M Series indoor units - PAC-LV11 is possible via ME controller or system controller only. Group control is not possible via an MA controller, IT terminal or wireless remote controller. ME control functions energy management, charge apportioning, interlock and free contact are not available.

Accessories

Outdoor Units

CMY-Y62-G-E

Branch pipe (2 branches) for PUMY

System Control Units

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB = Premium finish)

MAC-334IF-E

Interface for M-NET, MA remote controller
(PAR-41MAA / PAR-CT01MAA),
on/off input and run/fault output

MAC-497IF-E

Interface for MA remote controller
(PAR-41MAA / PAR-CT01MAA)

MAC-587IF-E

Interface for connection to Wi-Fi MELCloud service

PAR-41MAA

Standard wired remote controller

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

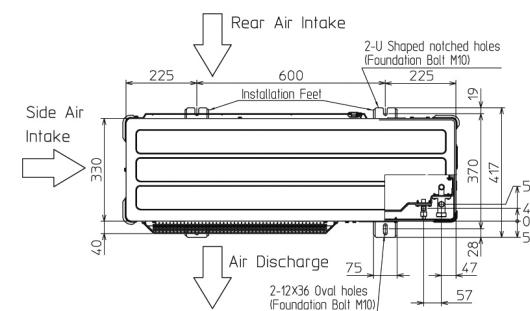
MELCORETAIL MINI

Retail control and input / output interface

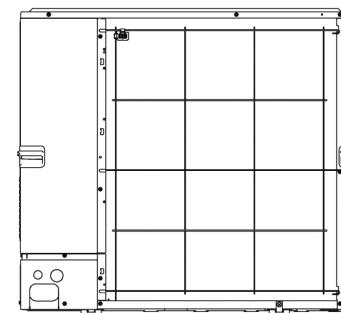
Product Dimensions

PUMY-SP112/125/140VKM2/YKM2

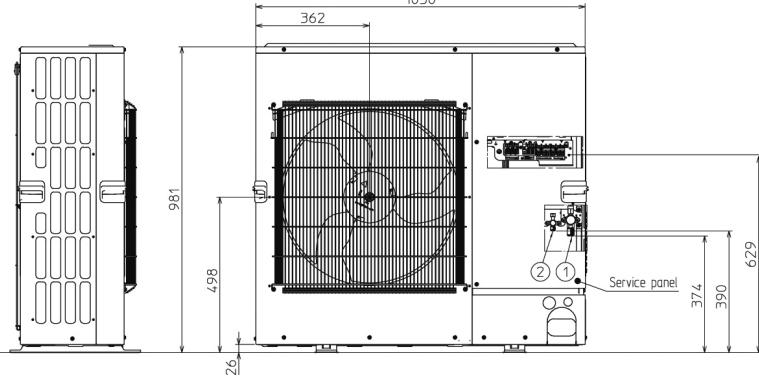
Upper View



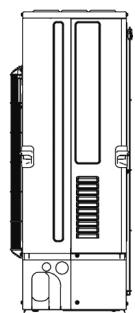
Rear View



Side View



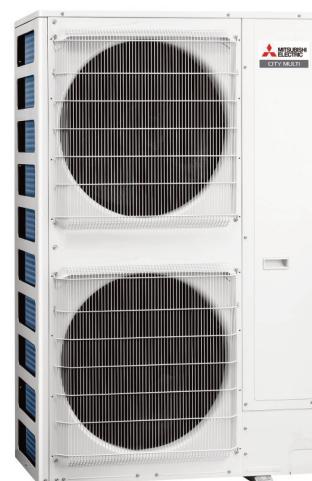
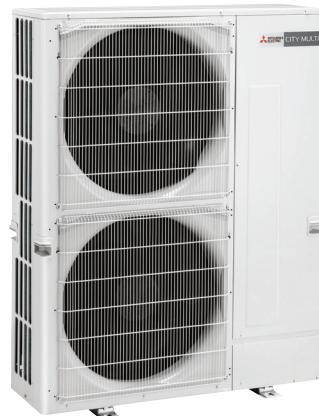
Front View



Side View

PUMY-P R410A Inverter Heat Pump (12.5-33.5kW)

Multi-Split Units



The **PUMY-P** Inverter Heat Pump system allows up to 30 indoor units to be connected to a single outdoor unit. Compatibility with City Multi, Mr Slim and the stylish M Series indoor units makes this an extremely flexible, economic, and energy-efficient solution for multi-room applications. With a slimline design and operation modes relevant to built-up areas, these systems are ideal for high-end residential and smaller commercial applications in city centres, or areas with limited outdoor space.

Key Features & Benefits

- Small footprint, long pipe-runs and wall-hanging capability provides flexibility of install
- Compatible with M Series, Mr Slim and City Multi indoor units (M Series & Mr Slim units via branch box or LEV Kit)
- Choice of operation mode: 'silent mode' for noise sensitive areas or 'demand control' for maximum efficiency
- Unique fan capability provides 30 Pascals of static pressure as standard



PUMY-P OUTDOOR UNITS		PUMY-P112VKM6	PUMY-P112YKM5	PUMY-P125VKM6	PUMY-P125YKM5	PUMY-P140VKM6	PUMY-P140YKM5	PUMY-P200YKM3	PUMY-P250YBM2	PUMY-P300YBM2
NUMBER OF CONNECTABLE INDOOR UNITS	Branch box / Mixed ^{*1}	8 / 10	8 / 10	8 / 10	8 / 10	8 / 10	8 / 10	8 / 11	12 / 30	12 / 30
CAPACITY (kW)	Heating (nominal)	14.0	14.0	16.0	16.0	18.0	18.0	25.0	31.5	37.5
	Cooling (nominal)	12.5	12.5	14.0	14.0	15.5	15.5	22.4	28.0	33.5
	Heating (UK)	14.0	14.0	16.0	16.0	18.0	18.0	25.0	31.5	37.5
	Cooling (UK)	9.8	9.8	11.0	11.0	12.2	12.2	17.6	22.1	26.4
COP / EER (NOMINAL)		4.61 / 4.48	4.61 / 4.48	4.28 / 4.05	4.28 / 4.05	4.03 / 3.43	4.03 / 3.43	4.28 / 3.70	4.25 / 3.41	4.11 / 3.31
MAX AIRFLOW (m³/min)		110	110	110	110	110	110	141	183	183
SOUND PRESSURE LEVEL (dBA)		49	49	50	50	51	51	57	55	57
SOUND POWER LEVEL (dBA)	Cooling	69	69	70	70	71	71	76	73	75
DIMENSIONS (mm)	Width x Depth x Height	1050 x 330+40 x 1338	1050 x 460+45 x 1662	1050 x 460+45 x 1662						
WEIGHT (kg)		123	125	123	125	123	125	141	192	192
ELECTRICAL SUPPLY		220-240v, 50Hz	380-415v, 50Hz	220-240v, 50Hz	380-415v, 50Hz	220-240v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE		Single	Three	Single	Three	Single	Three	Three	Three	Three
POWER INPUT (kW)	Heating/Cooling (nominal)	3.49 / 4.34	3.49 / 4.34	4.06 / 5.00	4.06 / 5.00	4.63 / 5.17	4.63 / 5.17	5.85 / 7.18	7.91 / 8.21	9.69 / 11.96
	Heating/Cooling (UK)	4.48 / 2.08	4.48 / 2.08	5.22 / 2.39	5.22 / 2.39	5.95 / 2.47	5.95 / 2.47	7.52 / 3.43	9.81 / 4.56	12.02 / 6.65
STARTING CURRENT (A)		14	7	14	7	14	7	7	7	7
RUNNING CURRENT (A)	Heating/Cooling [MAX]	15.41 / 19.16 [29.5]	5.93 / 7.37 [13.0]	17.93 / 22.08 [29.5]	6.52 / 8.02 [13.0]	20.44 / 22.83 [29.5]	7.04 / 7.86 [13.0]	9.08 / 11.15 [19.0]	12.28 / 12.74 [28.4]	15.04 / 18.56 [31.74]
FUSE RATING (BS88) - HRC (A)		1 x 32	1 x 16	1 x 32	1 x 16	1 x 32	1 x 16	1 x 20	1 x 32	1 x 32
PIPE SIZE MM (in)	Gas	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	19.05 (3/4")	22.4 (7/8")	25.4 (1")
	Liquid	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8") ^{*2}	9.52 (3/8")	12.7 (1/2")
TOTAL PIPING LENGTH (m)	Branch box / Mixed ^{*1}	150 / 300 (240)	150 / 300 (240)	150 / 300 (240)	150 / 300 (240)	150 / 300 (240)	150 / 300 (240)	150 / 150 (150)	240 / 310 (310)	240 / 310 (310)
FURTHEST PIPING LENGTH (m)	(With no branch boxes)	80 (85)	80 (85)	80 (85)	80 (85)	80 (85)	80 (85)	80	80 / 85 ^{*4}	80 / 85 ^{*4}
BETWEEN BRANCH BOXES AND OUTDOOR UNIT - LENGTH (m)		55	55	55	55	55	55	55	95 / 80 ^{*5}	95 / 80 ^{*5}
BETWEEN BRANCH BOXES AND INDOOR UNIT - LENGTH (m)		25	25	25	25	25	25	25	25	25
BETWEEN INDOOR AND OUTDOOR UNIT - HEIGHT (m)		50m max ^{*3}	50m max ^{*3}	50m max ^{*3}						
BETWEEN INDOOR AND INDOOR UNITS - HEIGHT (m)		12	12	12	12	12	12	12	12	12
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) - R410A (GWP 2088)		4.8 / 10.0	4.8 / 10.0	4.8 / 10.0	4.8 / 10.0	4.8 / 10.0	4.8 / 10.0	7.3 / 15.2	9.3 / 19.4	9.3 / 19.4
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) - R410A (GWP 2088)		13.7 / 28.6	13.7 / 28.6	13.7 / 28.6	13.7 / 28.6	13.7 / 28.6	13.7 / 28.6	13.5 / 28.2	22.4 / 46.8	22.4 / 46.8

Notes: *1 Branch box - only using branch boxes (PAC-MK) on the system. Mixed - using a mix of branch boxes (PAC-MK) and City Multi indoor units on the same system. Figure in brackets - when using 2 or 3 branch boxes.

*2 12.7mm (1/2") if furthest length ≥ 60m. *3 40m max if outdoor installed below. *4 Using mixed method. *5 Using mixed method and one branch box.

SCOP / SEER available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 6 to EN14825 standard.

PAC-MK - BRANCH BOX	PAC-MK53BC	PAC-LV - LEV KIT INTERFACE	PAC-LV11M
NUMBER OF CONNECTABLE INDOOR UNITS	5	1	
COMPATIBLE INDOOR UNITS	M Series, Mr Slim	M Series	
WEIGHT (kg)	7.9	3.5	
DIMENSIONS (mm)	Width x Depth x Height	450 x 280 x 170	
POWER SUPPLY TO BRANCH BOX ^{*1}	From outdoor unit	3 core + earth	
	Separate supply	220-240v, 50Hz / Single Phase	
	Separate supply fuse rating (BS88) - HRC (A)	6	
POWER SUPPLY TO INDOOR UNITS	From branch box	3 core + earth	

Note: *1 Either option is available for power supply from outdoor unit OR from a separate supply.

Note: The indoor unit connected to the PAC-LV11 cannot be grouped with other City Multi indoor units. Group control with other M Series indoor units + PAC-LV11 is possible via ME controller or system controller only. Group control is not possible via an MA controller, IT terminal or wireless remote controller. ME control functions energy management, charge apportioning, interlock and free contact are not available.

Accessories

Outdoor Units

CMY-Y62-G-E

Branch pipe (2 branches) for PUMY

System Control Units

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB = Premium finish)

MAC-334IF-E

Interface for M-NET, MA remote controller
(PAR-41MAA / PAR-CT01MAA),
on/off input and run/fault output

MAC-497IF-E

Interface for MA remote controller
(PAR-41MAA / PAR-CT01MAA)

MAC-587IF-E

Interface for connection to Wi-Fi MELCloud service

PAR-41MAA

Standard wired remote controller

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

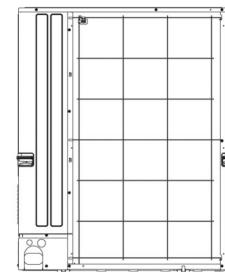
MELCORETAIL MINI

Retail control and input / output interface

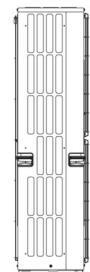
Product Dimensions

PUMY-P112/125/140VKM6/YKM5, PUMY-P200YKM3

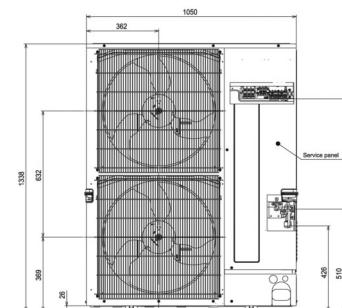
Rear View



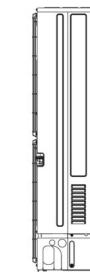
Left Side View



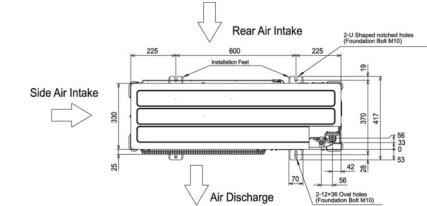
Front View



Right Side View



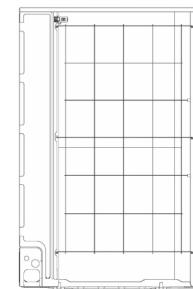
Upper View



Product Dimensions

PUMY-P250/300YBM2

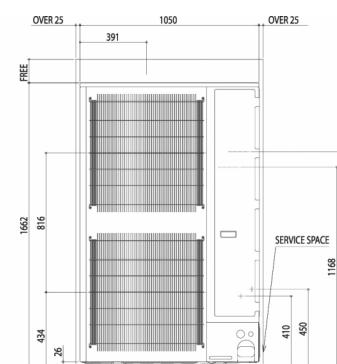
Rear View



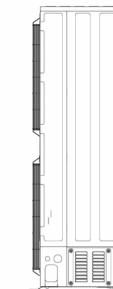
Left Side View



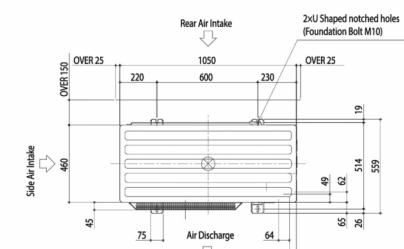
Front View



Right Side View



Upper View



Multi-Split Accessories / Optional Extras

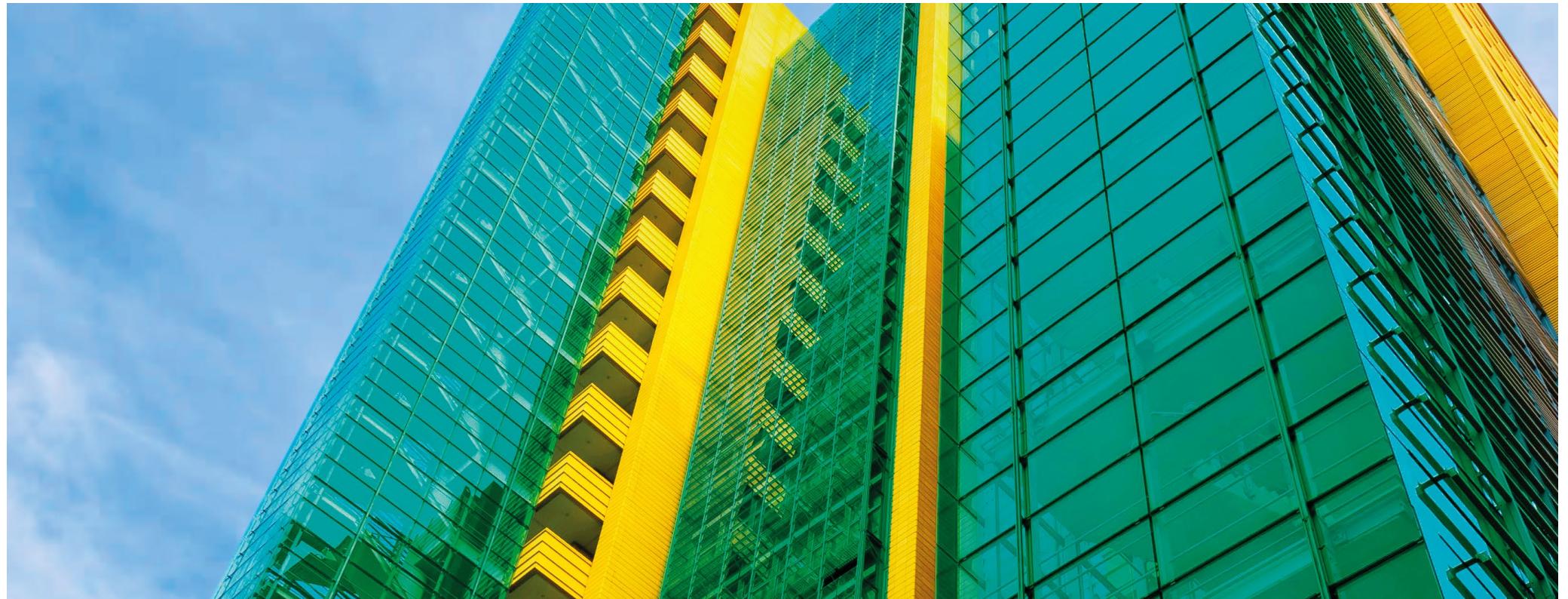
OUTDOOR UNITS	DESCRIPTION
MAC-881SG	Air outlet guide for MXZ-2F33VF4, MXZ-2F42VF4, MXZ-2F53VF4, MXZ-2HA40VF2, MXZ-2HA50VF2
MAC-856SG	Air outlet guide for MXZ-3F54VF4, MXZ-3F68VF4, MXZ-4F72VF4, MXZ-3HA50VF2
PAC-SH96SG-E	Air outlet guide for MXZ-4F83VF2, MXZ-5F102VF2, MXZ-6F120VF2
CMY-Y62-G-E	Branch pipe (2 branches) for PUMY-(S)P

SYSTEM CONTROL UNITS	DESCRIPTION
PAR-41MAA	Standard wired remote controller
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
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



City Multi VRF

Energy Efficient VRF Systems





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PFFY-P-VCM-E	
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PFFY-P-VLEM-E

Floor Standing Exposed	1.5.60
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PFFY-P-VKM-E

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PKFY-P-VLM-E/VKM-E

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PCFY-P-VKM-E

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PWFY-P-VM-E-BU

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BC Controllers with Acoustic Jacket

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Refrigerant Detection Systems

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1.5.80

CITY MULTI**Energy Efficient VRF Systems**

Our answer to large scale VRF - **City Multi Air Conditioning**

First developed over 30 years ago, City Multi is the market leader in VRF technology. Specifically designed to deliver comfort and control for today's building requirements, it addresses all the key market issues

VRF (Variable Refrigerant Flow) is a direct expansion type air conditioning system where one outdoor unit is connected with multiple indoor units, intelligently modulating the flow of refrigerant or water depending upon the capacity requirements of each zone within the building. Its ultimate purpose is to regulate the internal room air temperature and comfort levels in the most effective and efficient manner possible.

Today's commercial buildings are increasingly air tight and filled with heat-generating office equipment and lighting, which presents a challenge for anyone trying to maintain a stable and comfortable internal environment. Buildings account for around half of all UK greenhouse emissions, so legislation is demanding higher standards of air quality and increased energy efficiency in this sector.

The ideal solution

City Multi has constantly evolved and is packed with innovation that makes it eminently suitable for almost any building.

Designed from day one to work effectively in real applications in the UK market, City Multi delivers the best possible performance, combined with total flexibility of design and operation.

Available in heat recovery and heat pump variants, with up to 50 indoor units connectable, **City Multi provides the ultimate solution in comfort and efficiency.**



CITY MULTI

Energy Efficient VRF Systems



1.5.5

Air Conditioning

CITY MULTI

The Energy Efficient City Multi VRF Range

CITY MULTI**Energy Efficient VRF Systems****Outdoor / Condensing Unit Range**

Air Cooled



Water Cooled

Heat Recovery - R2 Series	P (kW)	112	125	140	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350
	(kW)	12	14	16	22	28	34	40	45	50	56	60	67	74	80	85	90	95	100	106	112	116	120	130	135	140	145	150

High Efficiency
PURY-EP
(YNW)

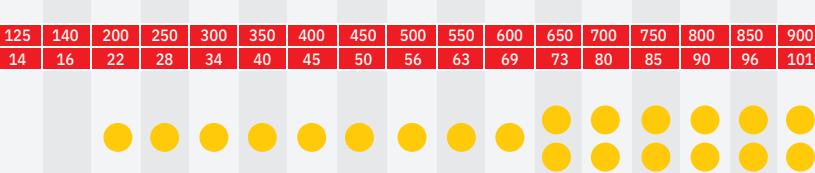
Heat Pump - Y Series	P (kW)	112	125	140	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350
	(kW)	12	14	16	22	28	34	40	45	50	56	62	67	73	80	85	90	95	100	108	113	118	125	130	135	140	145	150

Mini VRF
PUMY-(S)P

Twin Fan Twin Fan Twin Fan

Heat Recovery - WR2 Series

P (kW)	112	125	140	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900
(kW)	12	14	16	22	28	34	40	45	50	56	63	69	73	80	85	90	96	101

PQRY-P
(YLM)**Heat Pump - WY Series**

P (kW)	112	125	140	200	250	300	350	400	450	500	550	600
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Indoor Unit Range

Model	Range	P (kW)	10	15	20	25	32	40	50	63	80	100	125	140	200	250
Ceiling Concealed Ducted	PEFY-P-VMS1-E (Ultra Thin)	 														
	PEFY-M-VMA-A1	 														
	PEFY-P-VMHS-E (High Static Pressure)	  														
4-Way Blow Ceiling Cassette	PLFY-M-VEM6-E	  														
	PLFY-P-VFM-E (600x600)	 														
Floor Standing	PFFY-P-VCM-E (Concealed)	 														
	PFFY-P-VLEM-E (Exposed)	 														
	PFFY-P-VKM-E (Exposed)	 														
Wall Mounted	PKFY-P-VLM-E	 														
	PKFY-P-VLM-E	 														
	PKFY-P-VKM-E	 														
Ceiling Suspended	PCFY-P-VKM-E	 														
VRF Sanitary Water Heater	PWFY-P-VM-E-BU	 														
Air Curtain	VRF HP DXE	  														

Note: All kW capacity ratings may change on connected system, please contact your local sales office for confirmation.

R2 Series VRF High Efficiency (22.4-45kW)

Simultaneous Heating and Cooling with Heat Recovery Outdoor Unit



Delivering outstanding Seasonal Energy Efficiency, the City Multi R2 Series VRF High Efficiency Heat Recovery system provides simultaneous heating and cooling, with the added benefit of heat recovery. As the only 2-pipe heat recovery system on the market, the **PURY-EP** range offers huge benefits in terms of ease of installation and maintenance, as well as complete design flexibility.

Key Features & Benefits

- High efficiency system delivers outstanding seasonal energy performance
- Heat recovery achieves energy savings of up to 30% over heat pump systems
- Provides simultaneous heating and cooling with a high level of thermal comfort
- Unique 2-pipe system for ease of installation and maintenance
- Adjustable noise level options to suit application



OUTDOOR UNITS	PURY-EP200YNW-A2	PURY-EP250YNW-A2	PURY-EP300YNW-A2	PURY-EP350YNW-A2	PURY-EP400YNW-A2	PURY-EP400YSNW-A2
CAPACITY (kW)	Heating (nominal max)	25.0	31.5	37.5	45.0	50.0
	Cooling (nominal)	22.4	28.0	33.5	40.0	45.0
	High Performance Heating (UK)	25.0	31.5	35.6	42.8	45.0
	COP Priority Heating (UK)	22.8	28.7	34.1	41.0	43.0
	Cooling (UK)	20.0	25.1	30.0	35.8	40.3
POWER INPUT (kW)	Heating (nominal max)	6.72	9.51	10.90	13.39	16.33
	Cooling (nominal)	6.38	9.75	11.20	14.23	18.75
	High Performance Heating (UK)	8.47	11.98	14.50	17.81	18.45
	COP Priority Heating (UK)	6.72	9.51	10.90	13.39	16.33
	Cooling (UK)	3.70	5.66	6.50	8.25	12.00
COP / EER (nominal max)	3.72 / 3.51	3.31 / 2.87	3.44 / 2.99	3.36 / 2.81	3.06 / 2.40	3.61 / 3.40
MAX No. OF CONNECTABLE INDOOR UNITS	20	25	30	35	40	40
MAX CONNECTABLE CAPACITY	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity
AIRFLOW (m³/min)	High	170	185	240	250	315
PIPE SIZE mm (in)	Gas	19.05 (3/4")	22.2 (7/8")	22.2 (7/8")	28.58 (1-1/8")	28.58 (1-1/8")
	Liquid	15.88 (5/8")	19.05 (3/4")	19.05 (3/4")	22.2 (7/8")	22.2 (7/8")
SOUND PRESSURE LEVEL (dBA) @ 1m	Heating / Cooling	59.0 / 59.0	64.0 / 61.0	67.0 / 61.0	64.0 / 62.5	69.0 / 65.0
SOUND POWER LEVEL (dBA) @ 100% Capacity	Heating / Cooling	76.0 / 76.0	83.0 / 78.0	86.0 / 80.0	83.0 / 81.0	88.0 / 83.0
SOUND POWER LEVEL (dBA) @ 90% Capacity	Heating / Cooling	74.5 / 71.0	76.0 / 73.5	82.0 / 74.5	81.0 / 76.0	83.5 / 77.0
SOUND POWER LEVEL (dBA) @ 75% Capacity	Heating / Cooling	71.5 / 66.5	74.5 / 69.5	77.5 / 70.5	77.0 / 73.0	78.0 / 73.0
WEIGHT (kg)	219	228	230	275	276	219 + 219
DIMENSIONS (mm)	Width	920	920	920	1240	1240
	Depth	740	740	740	740	740
(1798mm without legs)	Height	1858	1858	1858	1858	1858
ELECTRICAL SUPPLY ¹	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE ¹	Three	Three	Three	Three	Three	Three
STARTING CURRENT (A) ¹	8	8	8	8	8	8 / 8
NOMINAL SYSTEM RUNNING CURRENT (A) ¹	Heating/Cooling [MAX]	10.7 / 10.2 [16.1]	15.2 / 15.6 [20.3]	17.4 / 17.9 [22.3]	21.4 / 22.8 [24.8]	26.1 / 30.0 [33.3]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52
FUSE RATING (MCB sizes BS EN 60947-2) - (A) ¹		1 x 20	1 x 25	1 x 25	1 x 25	1 x 40
MAINS CABLE No. Cores ¹		4 + earth	4 + earth	4 + earth	4 + earth	4 + earth / 4 + earth
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088)	5.2 / 10.9	5.2 / 10.9	5.2 / 10.9	8 / 16.7	8 / 16.7
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088)	28.3 / 59.1	34.3 / 71.6	34.3 / 71.6	39 / 81.4	39 / 81.4
						48.6 / 101.5

Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.

Nominal Conditions: Cooling; indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB. Nominal Max Conditions: Heating; indoor 20°C DB; outdoor 7°C DB, 6°C WB.

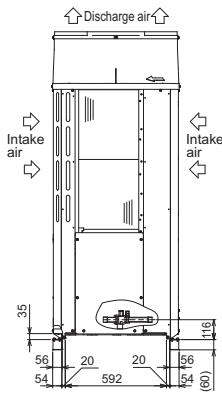
UK Conditions: Cooling; indoor 21°C DB, 15°C WB; outdoor 27°C DB. UK Conditions: Heating; indoor 20°C DB, outdoor 0°C DB, -1°C WB.

*1 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

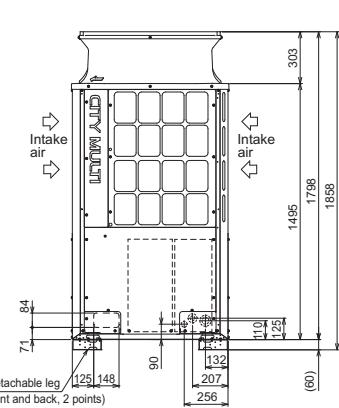
Product Dimensions

PURY-EP200/250/300YNW-A2

Side View



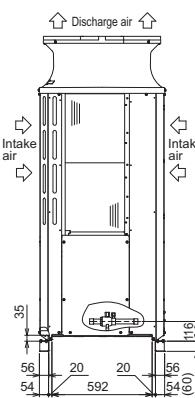
Front View



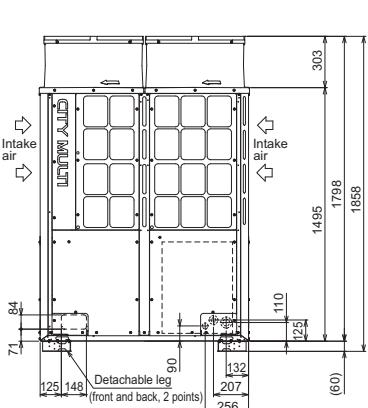
Product Dimensions

PURY-EP350/400YNW-A2

Side View



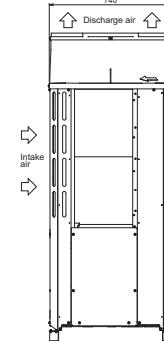
Front View



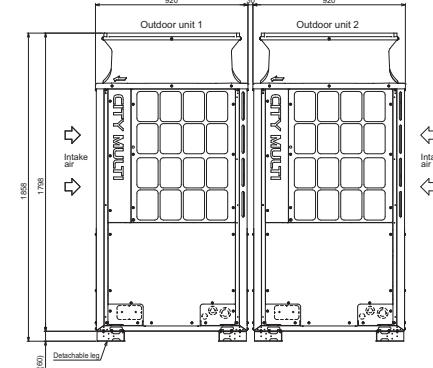
Product Dimensions

PURY-EP400YSNW-A2

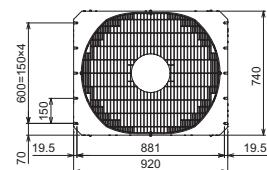
Side View



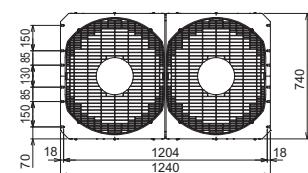
Front View



Upper View



Upper View



R2 Series VRF High Efficiency (50-61.5kW)

Simultaneous Heating and Cooling with Heat Recovery Outdoor Unit



Delivering outstanding Seasonal Energy Efficiency, the City Multi R2 Series VRF High Efficiency Heat Recovery system provides simultaneous heating and cooling, with the added benefit of heat recovery. As the only 2-pipe heat recovery system on the market, the **PURY-EP** range offers huge benefits in terms of ease of installation and maintenance, as well as complete design flexibility.

Key Features & Benefits

- High efficiency system delivers outstanding seasonal energy performance
 - Heat recovery achieves energy savings of up to 30% over heat pump systems
 - Provides simultaneous heating and cooling with a high level of thermal comfort
 - Unique 2-pipe system for ease of installation and maintenance
 - Adjustable noise level options to suit application



OUTDOOR UNITS		PURY-EP450YNW-A2	PURY-EP450YSNW-A2	PURY-EP500YNW-A2	PURY-EP500YSNW-A2	PURY-EP550YNW-A2	PURY-EP550YSNW-A2
CAPACITY (kW)	Heating (nominal max)	56.0	56.5	63.0	63.0	69.0	69.0
	Cooling (nominal)	50.0	50.4	56.0	56.0	60.0	61.5
	High Performance Heating (UK)	50.4	56.5	56.7	63.0	62.1	65.6
	COP Priority Heating (UK)	48.2	51.4	57.3	57.3	59.3	62.8
	Cooling (UK)	44.8	45.1	50.1	50.1	53.7	55.0
POWER INPUT (kW)	Heating (nominal max)	18.36	16.56	21.00	19.62	23.87	21.10
	Cooling (nominal)	18.93	16.31	21.78	20.14	25.70	21.65
	High Performance Heating (UK)	20.75	21.20	23.73	25.11	26.97	28.06
	COP Priority Heating (UK)	18.36	16.56	21.00	19.62	23.87	21.10
	Cooling (UK)	12.12	9.46	13.94	11.68	16.45	12.56
COP / EER (nominal max)		3.05 / 2.64	3.41 / 3.09	3.00 / 2.57	3.21 / 2.78	2.89 / 2.33	3.27 / 2.84
MAX No. OF CONNECTABLE INDOOR UNITS		45	45	50	50	50	50
MAX CONNECTABLE CAPACITY		50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity
AIRFLOW (m³/min)	High	315	170 / 185	295	185 / 185	410	185 / 240
PIPE SIZE mm (in)	Gas	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")
	Liquid	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8") / 28.58 (1-1/8") ¹⁾	22.2 (7/8") / 28.58 (1-1/8") ¹⁾
SOUND PRESSURE LEVEL (dBA) @ 1m	Heating / Cooling	70.0 / 65.5	63.5 / 63.0	64.5 / 63.5	64.0 / 63.5	70.0 / 70.0	68.0 / 64.0
SOUND POWER LEVEL (dBA) @ 100% Capacity	Heating / Cooling	89.0 / 83.0	83.8 / 80.0	84.0 / 82.0	86.0 / 81.0	89.0 / 89.0	87.7 / 82.0
SOUND POWER LEVEL (dBA) @ 90% Capacity	Heating / Cooling	85.5 / 78.5	77.9 / 75.2	81.0 / 76.5	79.0 / 76.5	86.0 / 83.5	83.0 / 76.0
SOUND POWER LEVEL (dBA) @ 75% Capacity	Heating / Cooling	79.5 / 74.0	76.2 / 71.2	77.5 / 73.5	77.5 / 72.5	81.5 / 79.0	79.2 / 73.0
WEIGHT (kg)		301	219 + 228	346	228 + 228	346	228 + 230
DIMENSIONS (mm)	Width	1240	920 + 920	1750	920 + 920	1750	920 + 920
	Depth	740	740	740	740	740	740
	Height (1798mm without legs)	1858	1858	1858	1858	1858	1858
ELECTRICAL SUPPLY ²⁾		380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE ²⁾		Three	Three	Three	Three	Three	Three
STARTING CURRENT (A) ²⁾		8	8	8	8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A) ²⁾	Heating/Cooling [MAX]	29.4 / 30.3 [37.3]	26.5 / 26.1 [16.1 + 20.3]	33.6 / 34.9 [40.3]	31.4 / 32.2 [20.3+20.3]	38.2 / 41.2 [51.2]	33.8 / 34.7 [22.3 + 20.3]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling	-20-15.5 / -5-52	-20-15.5 / -5-52	-20-15.5 / -5-52	-20-15.5 / -5-52	-20-15.5 / -5-52	-20-15.5 / -5-52
FUSE RATING (MCB sizes BS EN 60947-2) - (A) ²⁾		1 x 40	1 x 20 / 1 x 25	1 x 50	1 x 25 / 1 x 25	1 x 63	1 x 25 / 1 x 25
MAINS CABLE No. Cores ²⁾		4 + earth	4 + earth / 4 + earth	4 + earth	4 + earth / 4 + earth	4 + earth	4 + earth / 4 + earth
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088)	10.8 / 22.5	10.4 / 21.7	10.8 / 22.6	10.4 / 21.7	10.8 / 22.6	10.4 / 21.7
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088)	44.7 / 93.3	48.6 / 101.5	45.2 / 94.4	48.6 / 101.5	45.2 / 94.4	48.6 / 101.5

Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.

Notes: SEER/SCOP available separately in the City Multi VRF Seasonal Efficiency document. It is based on Ecodesign Lot 2/176 to EN14823 standard.

Normal Conditions: Cooling; indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB. Nominal Max Conditions: Heating; indoor 20°C DB; 15°C WB. UK Conditions: Cooling; indoor 21°C DB, 15°C WB; outdoor 32°C DB. UK Conditions: Heating; indoor 20°C DB; outdoor 9°C DB, 1°C WB.

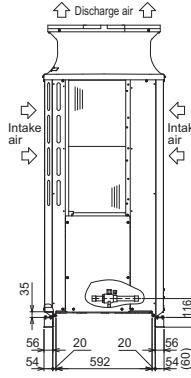
UK Conditions: Cooling; indoor 21°C DB, 15°C WB; outdoor 27°C DB. UK Conditions: Heating; indoor 20°C DB, outdoor 0°C DB, -1°C WB.
** If distance from GL-100 PC controller is greater than 65m, *A separate power supply is required for each module. Where more than one fu-

*1 If distance from OU to BC controller is greater than 65m. *2 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

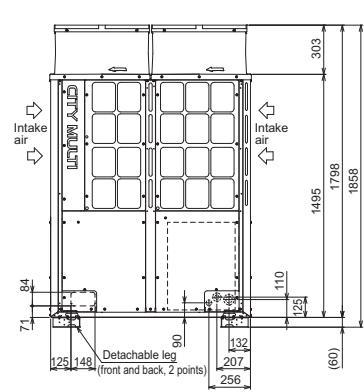
Product Dimensions

PURY-EP450YNW-A2

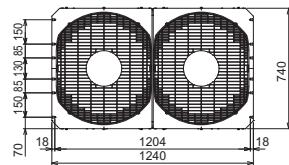
Side View



Front View



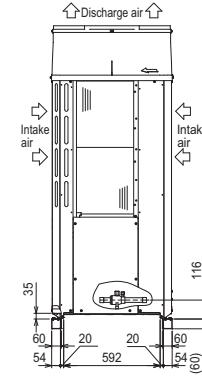
Upper View



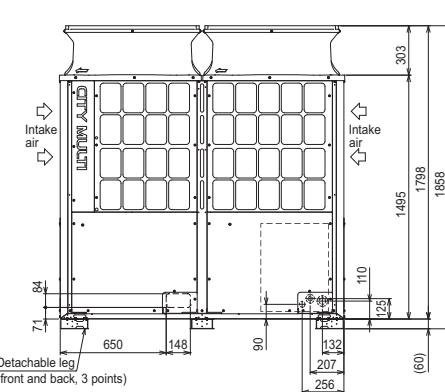
Product Dimensions

PURY-EP500/550YNW-A2

Side View



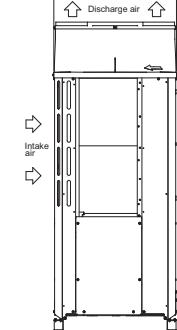
Front View



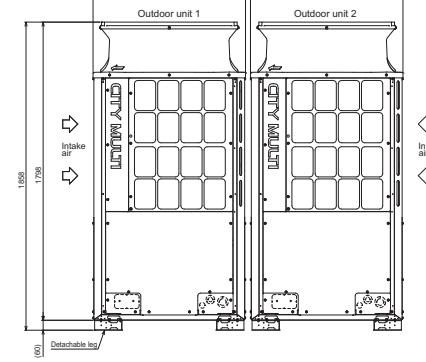
Product Dimensions

PURY-EP450/500/550YSNW-A2

Side View



Front View



R2 Series VRF High Efficiency (67-95kW)

Simultaneous Heating and Cooling with Heat Recovery Outdoor Unit



Delivering outstanding Seasonal Energy Efficiency, the City Multi R2 Series VRF High Efficiency Heat Recovery system provides simultaneous heating and cooling, with the added benefit of heat recovery. As the only 2-pipe heat recovery system on the market, the **PURY-EP** range offers huge benefits in terms of ease of installation and maintenance, as well as complete design flexibility.

Key Features & Benefits

- High efficiency system delivers outstanding seasonal energy performance
- Heat recovery achieves energy savings of up to 30% over heat pump systems
- Provides simultaneous heating and cooling with a high level of thermal comfort
- Unique 2-pipe system for ease of installation and maintenance
- Adjustable noise level options to suit application



OUTDOOR UNITS	PURY-EP600YSNW-A2	PURY-EP650YSNW-A2	PURY-EP700YSNW-A2	PURY-EP750YSNW-A2	PURY-EP800YSNW-A2	PURY-EP850YSNW-A2
CAPACITY (kW)	Heating (nominal max)	75.0	82.5	90.0	95.0	100.0
	Cooling (nominal)	67.0	73.5	80.0	85.0	90.0
	High Performance Heating (UK)	71.3	78.4	85.5	85.5	90.0
	COP Priority Heating (UK)	68.3	75.1	81.9	81.7	86.0
	Cooling (UK)	60.0	65.8	71.6	76.1	80.6
POWER INPUT (kW)	Heating (nominal max)	22.45	25.00	27.60	30.54	33.67
	Cooling (nominal)	23.10	26.15	29.30	33.59	38.62
	High Performance Heating (UK)	29.86	33.25	36.71	34.51	38.05
	COP Priority Heating (UK)	22.45	25.00	27.60	29.62	32.66
	Cooling (UK)	13.40	15.17	16.99	19.48	24.72
COP / EER (nominal max)	3.34 / 2.90	3.30 / 2.81	3.26 / 2.73	3.11 / 2.53	2.97 / 2.33	2.96 / 2.44
MAX No. OF CONNECTABLE INDOOR UNITS	50	50	50	50	50	50
MAX CONNECTABLE CAPACITY	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity
AIRFLOW (m³/min)	High	240 / 240	240 / 250	250 / 250	250 / 315	315 / 315
PIPE SIZE mm (in)	Gas	28.58 (1-1/8")	28.58 (1-1/8")	34.93 (1-3/8")	34.93 (1-3/8")	41.28 (1-5/8")
	Liquid	22.2 (7/8") / 28.58 (1-1/8") ¹	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")
SOUND PRESSURE LEVEL (dBA) @ 1m	Heating / Cooling	70.0 / 64.0	69.0 / 65.0	67.0 / 65.5	70.5 / 67.0	72.0 / 68.0
SOUND POWER LEVEL (dBA) @ 100% Capacity	Heating / Cooling	89.0 / 83.0	87.7 / 83.5	86.0 / 84.0	90.2 / 85.1	91.0 / 86.0
SOUND POWER LEVEL (dBA) @ 90% Capacity	Heating / Cooling	85.0 / 77.5	82.7 / 77.9	84.0 / 79.0	85.4 / 79.5	86.5 / 80.0
SOUND POWER LEVEL (dBA) @ 75% Capacity	Heating / Cooling	80.5 / 73.5	80.2 / 75.9	80.0 / 76.0	80.5 / 76.0	81.0 / 76.0
WEIGHT (kg)	230 + 230	230 + 275	275 + 275	275 + 276	276 + 276	276 + 301
DIMENSIONS (mm)	Width	920 + 920	920 + 1240	1240 + 1240	1240 + 1240	1240 + 1240
	Depth	740	740	740	740	740
(1798mm without legs)	Height	1858	1858	1858	1858	1858
ELECTRICAL SUPPLY ²	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE ²	Three	Three	Three	Three	Three	Three
STARTING CURRENT (A) ²	8	8	8	8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A) ²	Heating / Cooling [MAX]	36.0 / 37.0 [22.3 + 22.3]	40.0 / 41.9 [22.3 + 24.8]	44.2 / 46.9 [24.8 + 24.8]	48.9 / 53.8 [24.8 + 33.3]	53.9 / 61.9 [33.3 + 33.3]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52
FUSE RATING (MCB sizes BS EN 60347-2) - (A) ²		1 x 25 / 1 x 25	1 x 25 / 1 x 25	1 x 25 / 1 x 25	1 x 25 / 1 x 40	1 x 40 / 1 x 40
MAINS CABLE No. Cores ²		4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088)	10.4 / 21.7	13.2 / 27.6	16 / 33.4	16 / 33.4	16 / 33.4
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088)	48.6 / 101.5	45.8 / 95.6	70 / 146.2	70.5 / 147.2	70 / 146.2

Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.

Nominal Conditions: Cooling; indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB. Nominal Max Conditions: Heating; indoor 20°C DB; outdoor 7°C DB, 6°C WB.

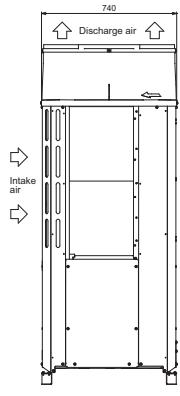
UK Conditions: Cooling; indoor 21°C DB, 15°C WB; outdoor 27°C DB. UK Conditions: Heating; indoor 20°C DB, outdoor 0°C DB, -1°C WB.

*1 If distance from OU to BC controller is greater than 65m. *2 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

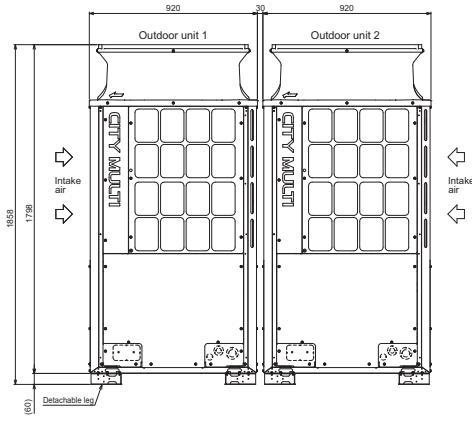
Product Dimensions

PURY-EP600YSNW-A2

Side View



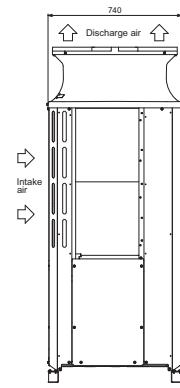
Front View



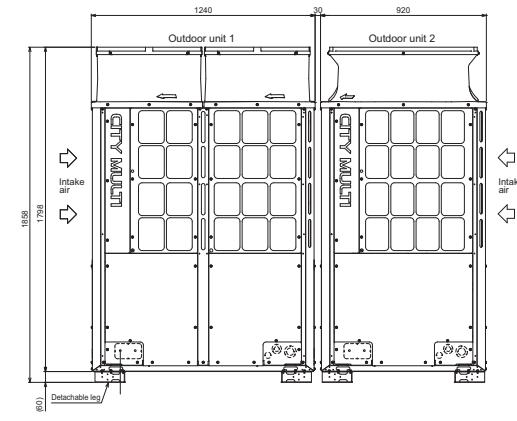
Product Dimensions

PURY-EP650YSNW-A2

Side View



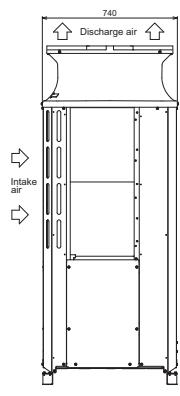
Front View



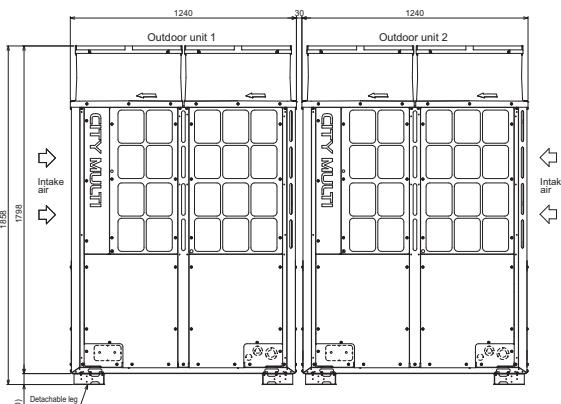
Product Dimensions

PURY-EP700/750/800/850YSNW-A2

Side View



Front View



R2 Series VRF High Efficiency (100-120kW)

Simultaneous Heating and Cooling with Heat Recovery Outdoor Unit



Delivering outstanding Seasonal Energy Efficiency, the City Multi R2 Series VRF High Efficiency Heat Recovery system provides simultaneous heating and cooling, with the added benefit of heat recovery. As the only 2-pipe heat recovery system on the market, the **PURY-EP** range offers huge benefits in terms of ease of installation and maintenance, as well as complete design flexibility.

Key Features & Benefits

- High efficiency system delivers outstanding seasonal energy performance
- Heat recovery achieves energy savings of up to 30% over heat pump systems
- Provides simultaneous heating and cooling with a high level of thermal comfort
- Unique 2-pipe system for ease of installation and maintenance
- Adjustable noise level options to suit application



OUTDOOR UNITS	PURY-EP900YSNW-A2	PURY-EP950YSNW-A2	PURY-EP1000YSNW-A2	PURY-EP1050YSNW-A2	PURY-EP1100YSNW-A2
CAPACITY (kW)	Heating (nominal max) Cooling (nominal) High Performance Heating (UK) COP Priority Heating (UK) Cooling (UK)	112.0 100.0 100.8 96.3 89.5	119.0 106.0 107.1 102.3 94.9	126.0 112.0 113.4 108.4 100.2	132.0 116.0 118.8 113.5 103.8
POWER INPUT (kW)	Heating (nominal max) Cooling (nominal) High Performance Heating (UK) COP Priority Heating (UK) Cooling (UK)	37.83 39.06 50.31 36.70 25.00	40.61 41.89 54.01 39.39 26.81	43.29 44.97 57.58 41.99 28.78	46.15 48.73 52.15 44.77 28.26
COP / EER (nominal max)	2.96 / 2.56	2.93 / 2.53	2.91 / 2.49	2.86 / 2.38	2.80 / 2.26
MAX No. OF CONNECTABLE INDOOR UNITS	50	50	50	50	50
MAX CONNECTABLE CAPACITY	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity
AIRFLOW (m³/min)	High 315 / 315	315 / 295	295 / 295	295 / 410	410 / 410
PIPE SIZE mm (in)	Gas 41.28 (1-5/8") Liquid 28.58 (1-1/8")	41.28 (1-5/8") 28.58 (1-1/8")	41.28 (1-5/8") 28.58 (1-1/8")	41.28 (1-5/8") 34.93 (1-3/8")	41.28 (1-5/8") 34.93 (1-3/8")
SOUND PRESSURE LEVEL (dBA) @ 1m	Heating / Cooling 73.0 / 68.5	71.5 / 68.0	67.5 / 66.5	71.5 / 71.0	73.0 / 73.0
SOUND POWER LEVEL (dBA) @ 100% Capacity	Heating / Cooling 92.0 / 86.0	91.0 / 86.0	87.0 / 85.0	90.2 / 89.8	92.0 / 92.0
SOUND POWER LEVEL (dBA) @ 90% Capacity	Heating / Cooling 88.5 / 81.5	85.5 / 81.0	84.0 / 79.5	87.2 / 84.3	89.0 / 86.5
SOUND POWER LEVEL (dBA) @ 75% Capacity	Heating / Cooling 82.5 / 77.0	80.0 / 77.0	80.5 / 76.5	82.7 / 80.1	84.5 / 82.0
WEIGHT (kg)	301 + 301	301 + 346	346 + 346	346 + 346	346 + 346
DIMENSIONS (mm)	Width 1240 + 1240	1240 + 1750	1750 + 1750	1750 + 1750	1750 + 1750
(1798mm without legs)	Depth 740	740	740	740	740
	Height 1858	1858	1858	1858	1858
ELECTRICAL SUPPLY ¹	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE ¹	Three	Three	Three	Three	Three
STARTING CURRENT (A) ¹	8	8	8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A) ¹	Heating/Cooling [MAX] 60.6 / 62.6 [37.3 + 37.3]	65.1 / 67.1 [37.3 + 40.3]	69.4 / 72.1 [40.3 + 40.3]	74.0 / 78.1 [40.3 + 51.2]	79.0 / 85.1 [51.2 + 51.2]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling -20~-15.5 / -5~-52	-20~-15.5 / -5~-52	-20~-15.5 / -5~-52	-20~-15.5 / -5~-52	-20~-15.5 / -5~-52
FUSE RATING (MCB sizes BS EN 60947-2) - (A) ¹	1 x 40 / 1 x 40	1 x 40 / 1 x 50	1 x 50 / 1 x 50	1 x 50 / 1 x 63	1 x 63 / 1 x 63
MAINS CABLE No. Cores ¹	4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088) 21.6 / 45.1	21.6 / 45.1	21.6 / 45.1	21.6 / 45.1	21.6 / 45.1
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088) 64.4 / 134.4	64.4 / 134.4	64.4 / 134.4	64.4 / 134.4	64.4 / 134.4

Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.

Nominal Conditions: Cooling; indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB. Nominal Max Conditions: Heating; indoor 20°C DB; outdoor 7°C DB, 6°C WB.

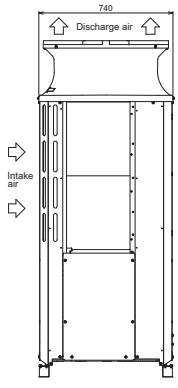
UK Conditions: Cooling; indoor 21°C DB, 15°C WB; outdoor 27°C DB. UK Conditions: Heating; indoor 20°C DB, outdoor 0°C DB, -1°C WB.

¹A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

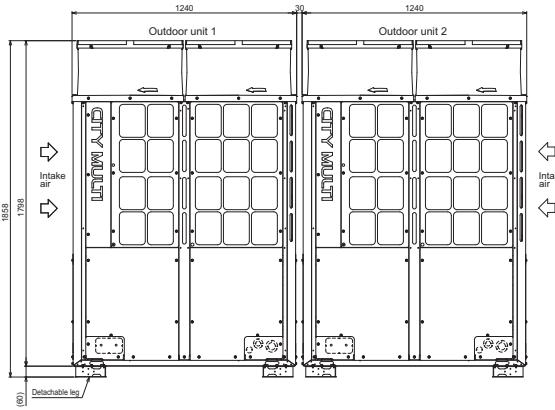
Product Dimensions

PURY-EP900YSNW-A2

Side View



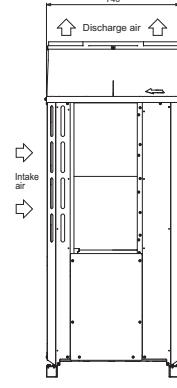
Front View



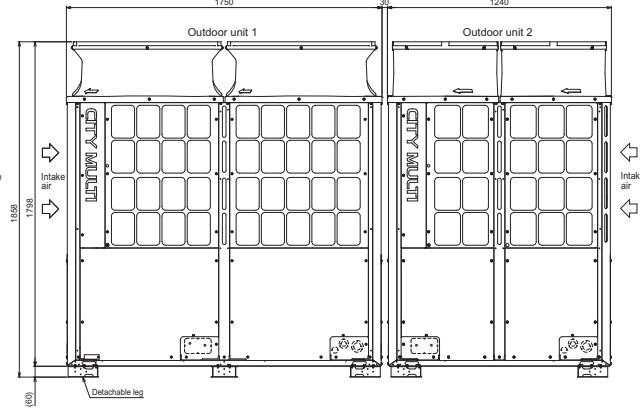
Product Dimensions

PURY-EP950YSNW-A2

Side View



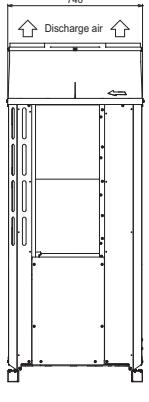
Front View



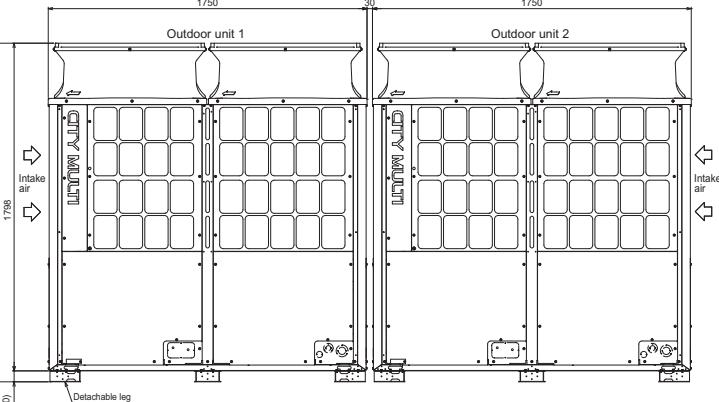
Product Dimensions

PURY-EP1000/1050/1100YSNW-A2

Side View



Front View



R2 Series VRF Standard Efficiency (22.4-45kW)

Simultaneous Heating and Cooling with Heat Recovery Outdoor Unit



The City Multi R2 Series VRF Heat Recovery system meets the demand for simultaneous heating and cooling, with the added benefit of heat recovery. As the only 2-pipe heat recovery system on the market, the **PURY-P** range offers huge benefits in terms of ease of installation and maintenance, as well as complete design flexibility.

Key Features & Benefits

- Heat recovery achieves energy savings of up to 30% over heat pump systems
- Provides simultaneous heating and cooling with a high level of thermal comfort
- Unique 2-pipe system for ease of installation and maintenance
- Adjustable noise level options to suit application



OUTDOOR UNITS		PURY-P200YNW-A2	PURY-P250YNW-A2	PURY-P300YNW-A2	PURY-P350YNW-A2	PURY-P400YNW-A2	PURY-P400YSNW-A2
CAPACITY (kW)	Heating (nominal max)	25.0	31.5	33.5	45.0	50.0	50.0
	Cooling (nominal)	22.4	28.0	33.5	40.0	45.0	44.8
	High Performance Heating (UK)	25.0	31.5	31.8	42.8	45.0	50.0
	COP Priority Heating (UK)	22.8	28.7	30.1	41.0	43.0	45.5
	Cooling (UK)	20.0	25.1	30.0	35.8	40.3	40.1
POWER INPUT (kW)	Heating (nominal max)	6.79	9.57	9.62	13.88	16.66	14.00
	Cooling (nominal)	6.68	10.25	11.75	14.92	19.65	13.78
	High Performance Heating (UK)	8.56	12.06	12.79	18.46	18.99	17.92
	COP Priority Heating (UK)	6.79	9.57	9.62	13.88	16.16	14.00
	Cooling (UK)	3.87	5.95	6.82	8.65	12.58	7.99
COP / EER (nominal max)	3.68 / 3.35	3.29 / 2.73	3.48 / 2.85	3.24 / 2.68	3.00 / 2.29	3.57 / 3.25	
MAX No. OF CONNECTABLE INDOOR UNITS	20	25	30	35	40	40	
MAX CONNECTABLE CAPACITY	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity
AIRFLOW (m³/min)	High	170	220	240	250	315	170 / 170
PIPE SIZE mm (in)	Gas	19.05 (3/4")	22.2 (7/8")	22.2 (7/8")	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")
	Liquid	15.88 (5/8")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	22.2 (7/8")	22.2 (7/8")
SOUND PRESSURE LEVEL (dBA) @ 1m	Heating / Cooling	59.0 / 59.0	64.0 / 60.5	67.0 / 61.0	64.0 / 62.5	69.0 / 65.0	62.0 / 62.0
SOUND POWER LEVEL (dBA) @ 100% Capacity	Heating / Cooling	76.0 / 76.0	83.0 / 78.0	86.0 / 80.0	83.0 / 81.0	88.0 / 83.0	79.0 / 79.0
SOUND POWER LEVEL (dBA) @ 90% Capacity	Heating / Cooling	74.5 / 71.0	80.0 / 73.5	82.0 / 74.5	81.0 / 76.0	83.5 / 77.0	77.5 / 74.0
SOUND POWER LEVEL (dBA) @ 75% Capacity	Heating / Cooling	71.5 / 66.5	76.5 / 69.5	77.5 / 70.5	77.0 / 73.0	78.0 / 73.0	74.5 / 69.5
WEIGHT (kg)	214	223	225	269	269	214 + 214	
DIMENSIONS (mm)	Width	920	920	920	1240	1240	920 + 920
	Depth	740	740	740	740	740	740
(1798mm without legs)	Height	1858	1858	1858	1858	1858	1858
ELECTRICAL SUPPLY ¹	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE ¹	Three	Three	Three	Three	Three	Three	Three
STARTING CURRENT (A) ¹	8	8	8	8	8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A) ¹	Heating / Cooling [MAX]	10.8 / 10.7 [16.1]	15.3 / 16.4 [21.4]	15.4 / 18.8 [23.4]	22.2 / 23.9 [27.6]	26.7 / 31.5 [35.1]	22.4 / 22.0 [16.1 + 16.1]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52
FUSE RATING (MCB sizes BS EN 60947-2) - (A) ¹	1 x 20	1 x 25	1 x 25	1 x 32	1 x 40	1 x 20 / 1 x 20	
MAINS CABLE No. Cores ¹	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth / 4 + earth	
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088)	5.2 / 10.9	5.2 / 10.9	5.2 / 10.9	8 / 16.7	8 / 16.7	10.4 / 21.7
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088)	31.8 / 66.4	37.8 / 78.9	37.8 / 78.9	41.3 / 86.2	47.3 / 98.8	60.6 / 126.5

Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.

Nominal Conditions: Cooling; indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB. Nominal Max Conditions: Heating; indoor 20°C DB; outdoor 7°C DB, 6°C WB.

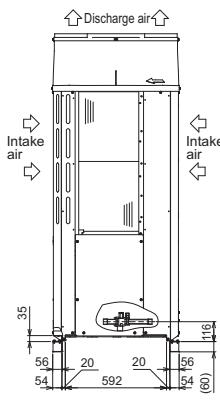
UK Conditions: Cooling; indoor 21°C DB, 15°C WB; outdoor 27°C DB. UK Conditions: Heating; indoor 20°C DB, outdoor 0°C DB, -1°C WB.

*1 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

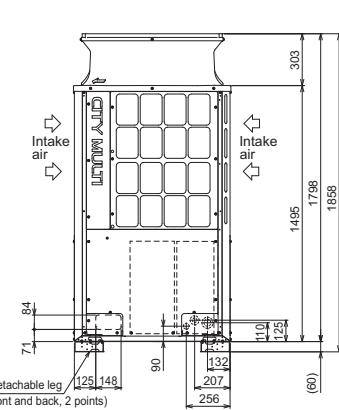
Product Dimensions

PURY-P200/250/300YNW-A2

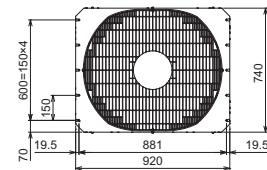
Side View



Front View

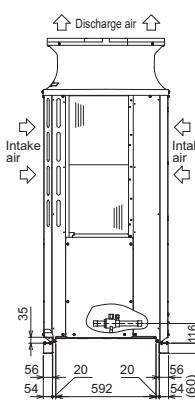


Upper View

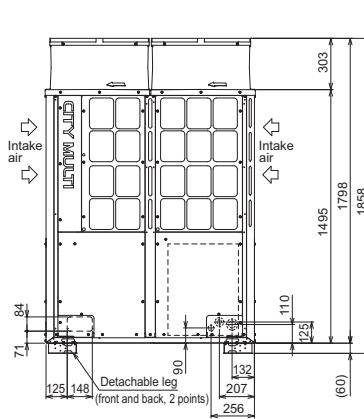
**Product Dimensions**

PURY-P350/400YNW-A2

Side View

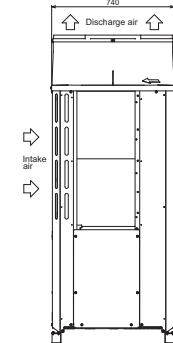


Front View

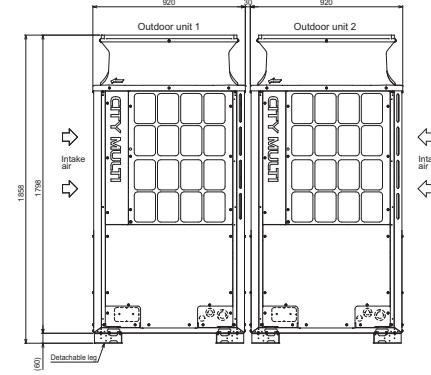
**Product Dimensions**

PURY-P400YSNW-A2

Side View



Front View



R2 Series VRF Standard Efficiency (50-61.5kW)

Simultaneous Heating and Cooling with Heat Recovery Outdoor Unit



The City Multi R2 Series VRF Heat Recovery system meets the demand for simultaneous heating and cooling, with the added benefit of heat recovery. As the only 2-pipe heat recovery system on the market, the **PURY-P** range offers huge benefits in terms of ease of installation and maintenance, as well as complete design flexibility.

Key Features & Benefits

- Heat recovery achieves energy savings of up to 30% over heat pump systems
- Provides simultaneous heating and cooling with a high level of thermal comfort
- Unique 2-pipe system for ease of installation and maintenance
- Adjustable noise level options to suit application



OUTDOOR UNITS	PURY-P450YNW-A2	PURY-P450YSNW-A2	PURY-P500YNW-A2	PURY-P500YSNW-A2	PURY-P550YNW-A2	PURY-P550YSNW-A2
CAPACITY (kW)	Heating (nominal max) 56.0 Cooling (nominal) 50.0 High Performance Heating (UK) 50.4 COP Priority Heating (UK) 48.2 Cooling (UK) 44.8	56.5 50.4 56.5 56.7 54.2 45.1	63.0 56.0 63.0 63.0 57.3 50.1	63.0 56.0 63.0 62.1 59.3	69.0 60.0 62.1 59.2 53.7	65.0 61.5 61.8 59.2 55.0
POWER INPUT (kW)	Heating (nominal max) 18.79 Cooling (nominal) 19.84 High Performance Heating (UK) 21.42 COP Priority Heating (UK) 18.23 Cooling (UK) 12.70	16.71 17.08 21.39 16.71 9.91	21.14 22.22 24.10 20.51 14.22	19.74 21.13 25.27 19.74 12.26	24.55 25.86 27.99 23.81 16.55	19.81 22.69 26.35 19.81 13.16
COP / EER (nominal max)	2.98 / 2.52	3.38 / 2.95	2.98 / 2.52	3.19 / 2.65	2.81 / 2.32	3.28 / 2.71
MAX No. OF CONNECTABLE INDOOR UNITS	45	45	50	50	50	50
MAX CONNECTABLE CAPACITY	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity
AIRFLOW (m³/min)	High 315	170 / 220	295	220 / 220	410	220 / 240
PIPE SIZE mm (in)	Gas 28.58 (1-1/8") Liquid 22.2 (7/8")	28.58 (1-1/8") 22.2 (7/8")	28.58 (1-1/8") 22.2 (7/8")	28.58 (1-1/8") 22.2 (7/8")	28.58 (1-1/8") 22.2 (7/8") / 28.58 (1-1/8") ¹	28.58 (1-1/8") 22.2 (7/8") / 28.58 (1-1/8") ¹
SOUND PRESSURE LEVEL (dBA) @ 1m	Heating / Cooling 70.0 / 65.5	65.5 / 63.0	64.5 / 63.5	67.0 / 63.5	70.0 / 70.0	69.0 / 64.0
SOUND POWER LEVEL (dBA) @ 100% Capacity	Heating / Cooling 89.0 / 83.0	83.8 / 80.1	84.0 / 82.0	86.0 / 81.0	89.0 / 89.0	87.7 / 82.1
SOUND POWER LEVEL (dBA) @ 90% Capacity	Heating / Cooling 85.5 / 78.5	81.1 / 75.4	81.0 / 76.5	83.0 / 76.5	86.0 / 83.5	84.1 / 76.2
SOUND POWER LEVEL (dBA) @ 75% Capacity	Heating / Cooling 79.5 / 74.0	77.7 / 71.2	77.5 / 73.5	79.5 / 72.5	81.5 / 79.0	80.0 / 73.0
WEIGHT (kg)	289	214 + 223	335	223 + 223	335	223 + 225
DIMENSIONS (mm)	Width 1240	920 + 920	1750	920 + 920	1750	920 + 920
	Depth 740	740	740	740	740	740
(1798mm without legs)	Height 1858	1858	1858	1858	1858	1858
ELECTRICAL SUPPLY ²	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE ²	Three	Three	Three	Three	Three	Three
STARTING CURRENT (A) ²	8	8	8	8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A) ²	Heating / Cooling [MAX] 30.1 / 31.8 [39.0]	26.7 / 27.3 [16.1 + 21.4]	33.9 / 35.6 [43.2]	31.6 / 33.8 [21.4 + 21.4]	39.3 / 41.4 [51.4]	31.7 / 36.3 [21.4 + 23.4]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling -20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52
FUSE RATING (MCB sizes BS EN 60947-2) - (A) ²	1 x 40	1 x 20 / 1 x 25	1 x 50	1 x 25 / 1 x 25	1 x 63	1 x 25 / 1 x 25
MAINS CABLE No. Cores ²	4 + earth	4 + earth / 4 + earth	4 + earth	4 + earth / 4 + earth	4 + earth	4 + earth / 4 + earth
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088) 10.8 / 22.5	10.4 / 21.7	10.8 / 22.6	10.4 / 21.7	10.8 / 22.6	10.4 / 21.7
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088) 44.5 / 92.9	48.6 / 101.5	45.2 / 94.4	48.6 / 101.5	45.2 / 94.4	48.6 / 101.5

Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.

Nominal Conditions: Cooling; indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB. Nominal Max Conditions: Heating; indoor 20°C DB; outdoor 7°C DB, 6°C WB.

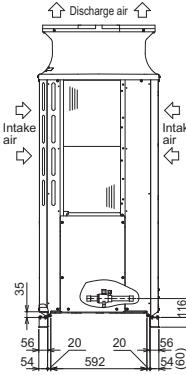
UK Conditions: Cooling; indoor 21°C DB, 15°C WB; outdoor 27°C DB. UK Conditions: Heating; indoor 20°C DB, outdoor 0°C DB, -1°C WB.

*1 If distance from OU to BC controller is greater than 65m. *2 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

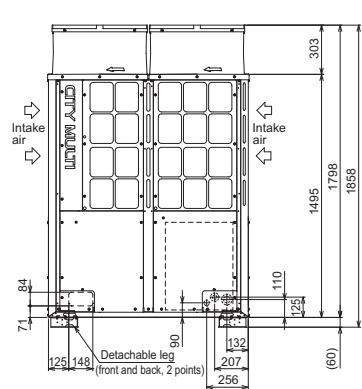
Product Dimensions

PURY-P450YNW-A2

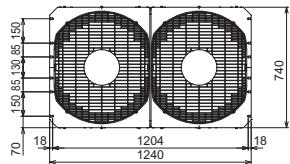
Side View



Front View

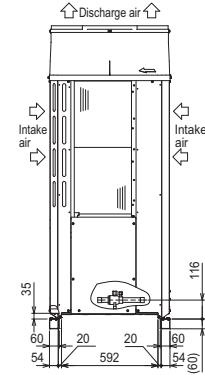


Upper View

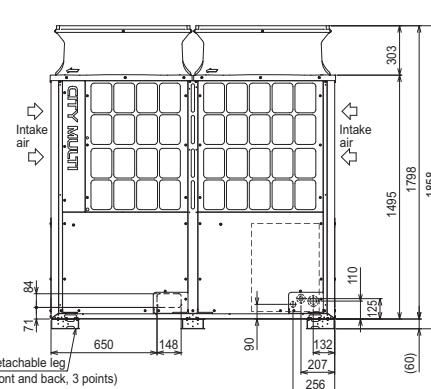
**Product Dimensions**

PURY-P500/550YNW-A2

Side View

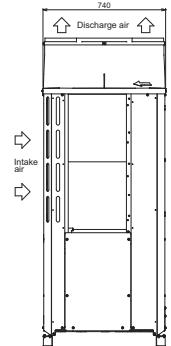


Front View

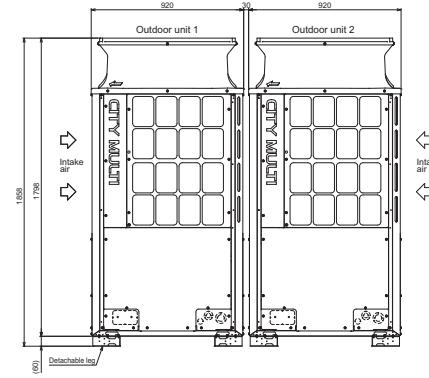
**Product Dimensions**

PURY-P450/500/550YSNW-A2

Side View



Front View



R2 Series VRF Standard Efficiency (67-95kW)

Simultaneous Heating and Cooling with Heat Recovery Outdoor Unit



The City Multi R2 Series VRF Heat Recovery system meets the demand for simultaneous heating and cooling, with the added benefit of heat recovery. As the only 2-pipe heat recovery system on the market, the **PURY-P** range offers huge benefits in terms of ease of installation and maintenance, as well as complete design flexibility.

Key Features & Benefits

- Heat recovery achieves energy savings of up to 30% over heat pump systems
- Provides simultaneous heating and cooling with a high level of thermal comfort
- Unique 2-pipe system for ease of installation and maintenance
- Adjustable noise level options to suit application



OUTDOOR UNITS	PURY-P600YSNW-A2	PURY-P650YSNW-A2	PURY-P700YSNW-A2	PURY-P750YSNW-A2	PURY-P800YSNW-A2	PURY-P850YSNW-A2
CAPACITY (kW)	Heating (nominal max) 67.0 Cooling (nominal) 67.0 High Performance Heating (UK) 63.7 COP Priority Heating (UK) 61.0 Cooling (UK) 60.0	78.5 80.0 74.6 85.5 71.4 65.8	90.0 85.0 85.5 81.9 71.6	95.0 90.0 85.5 81.7 76.1	100.0 90.0 90.0 86.0 80.6	106.0 95.0 95.4 91.2 85.0
POWER INPUT (kW)	Heating (nominal max) 19.81 Cooling (nominal) 24.27 High Performance Heating (UK) 26.35 COP Priority Heating (UK) 19.22 Cooling (UK) 14.08	24.07 27.42 32.01 24.07 15.90	28.66 30.76 38.12 28.66 17.84	31.35 35.26 35.43 30.41 20.45	34.36 40.54 38.83 33.33 25.95	36.55 40.77 41.30 35.45 26.09
COP / EER (nominal max)	3.38 / 2.76	3.26 / 2.68	3.14 / 2.60	3.03 / 2.41	2.91 / 2.22	2.90 / 2.33
MAX No. OF CONNECTABLE INDOOR UNITS	50	50	50	50	50	50
MAX CONNECTABLE CAPACITY	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity
AIRFLOW (m³/min)	High 240 / 240	240 / 250	250 / 250	250 / 315	315 / 315	315 / 315
PIPE SIZE mm (in)	Gas 28.58 (1-1/8") Liquid 22.2 (7/8") / 28.58 (1-1/8") ¹	28.58 (1-1/8") 28.58 (1-1/8") ¹	34.93 (1-3/8") 28.58 (1-1/8")	34.93 (1-3/8") 28.58 (1-1/8")	34.93 (1-3/8") 28.58 (1-1/8")	41.28 (1-5/8") 28.58 (1-1/8")
SOUND PRESSURE LEVEL (dBA) @ 1m	Heating / Cooling 70.0 / 64.0	69.0 / 65.0	67.0 / 65.5	70.5 / 67.0	72.0 / 68.0	72.5 / 68.5
SOUND POWER LEVEL (dBA) @ 100% Capacity	Heating / Cooling 89.0 / 83.0	87.7 / 83.5	86.0 / 84.0	89.2 / 85.1	91.0 / 86.0	91.5 / 86.0
SOUND POWER LEVEL (dBA) @ 90% Capacity	Heating / Cooling 85.0 / 77.5	78.3 / 78.5	84.0 / 79.0	85.4 / 79.5	86.5 / 80.0	87.6 / 81.2
SOUND POWER LEVEL (dBA) @ 75% Capacity	Heating / Cooling 80.5 / 73.5	80.2 / 75.0	80.0 / 76.0	80.5 / 76.0	81.0 / 76.0	81.8 / 76.5
WEIGHT (kg)	225 + 225	225 + 269	269 + 269	269 + 269	269 + 269	269 + 289
DIMENSIONS (mm)	Width 920 + 920	920 + 1240	1240 + 1240	1240 + 1240	1240 + 1240	1240 + 1240
(1798mm without legs)	Depth 740	740	740	740	740	740
ELECTRICAL SUPPLY ²	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE ²	Three	Three	Three	Three	Three	Three
STARTING CURRENT (A) ²	8	8	8	8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A) ²	Heating/Cooling [MAX] 31.7 / 38.9 [23.4 + 23.4]	38.6 / 43.9 [23.4 + 27.6]	45.9 / 49.3 [27.6 + 27.6]	50.2 / 56.5 [27.6 + 35.1]	55.1 / 65.0 [35.1 + 35.1]	58.6 / 65.3 [35.1 + 39.0]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling -20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52
FUSE RATING (MCB sizes BS EN 60947-2) - (A) ²	1 x 25 / 1 x 25	1 x 25 / 1 x 32	1 x 32 / 1 x 32	1 x 32 / 1 x 40	1 x 40 / 1 x 40	1 x 40 / 1 x 40
MAINS CABLE No. Cores ²	4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088) 10.4 / 21.7	13.2 / 27.6	16 / 33.4	16 / 33.4	16 / 33.4	18.8 / 39.3
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088) 48.6 / 101.5	45.8 / 95.6	70 / 146.2	70 / 146.2	70 / 146.2	67.2 / 140.3

Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.

Nominal Conditions: Cooling; indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB. Nominal Max Conditions: Heating; indoor 20°C DB; outdoor 7°C DB, 6°C WB.

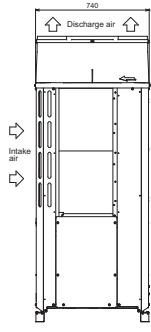
UK Conditions: Cooling; indoor 21°C DB, 15°C WB; outdoor 27°C DB. UK Conditions: Heating; indoor 20°C DB, outdoor 0°C DB, -1°C WB.

¹ If distance from OU to BC controller is greater than 65m. ² A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

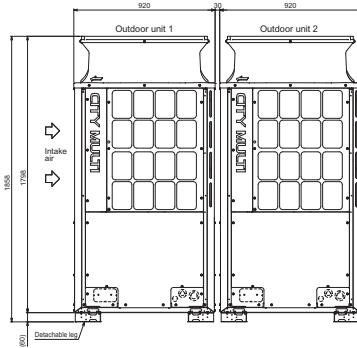
Product Dimensions

PURY-P600YSNW-A2

Side View

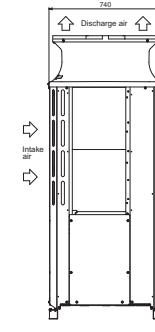


Front View

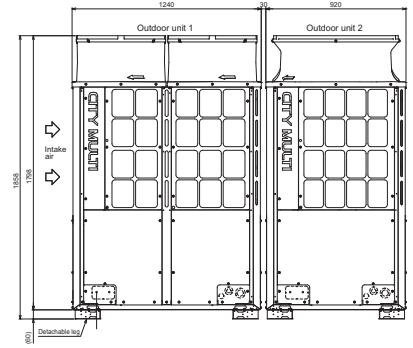
**Product Dimensions**

PURY-P650YSNW-A2

Side View

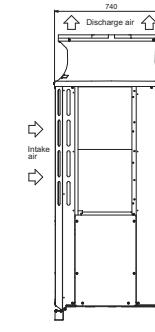


Front View

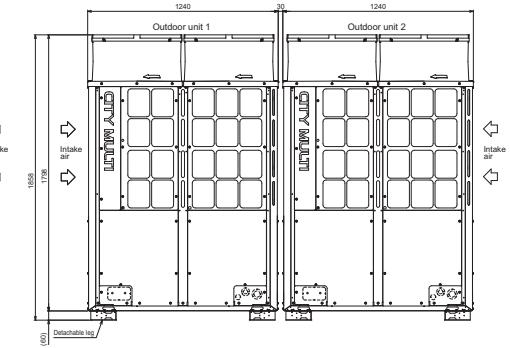
**Product Dimensions**

PURY-P700/750/800/850YSNW-A2

Side View



Front View



R2 Series VRF Standard Efficiency (100-120kW)

Simultaneous Heating and Cooling with Heat Recovery Outdoor Unit



The City Multi R2 Series VRF Heat Recovery system meets the demand for simultaneous heating and cooling, with the added benefit of heat recovery. As the only 2-pipe heat recovery system on the market, the **PURY-P** range offers huge benefits in terms of ease of installation and maintenance, as well as complete design flexibility.

Key Features & Benefits

- Heat recovery achieves energy savings of up to 30% over heat pump systems
- Provides simultaneous heating and cooling with a high level of thermal comfort
- Unique 2-pipe system for ease of installation and maintenance
- Adjustable noise level options to suit application



OUTDOOR UNITS	PURY-P900YSNW-A2	PURY-P950YSNW-A2	PURY-P1000YSNW-A2	PURY-P1050YSNW-A2	PURY-P1100YSNW-A2
CAPACITY (kW)	Heating (nominal max) 112.0 Cooling (nominal) 100.0 High Performance Heating (UK) 100.8 COP Priority Heating (UK) 96.3 Cooling (UK) 89.5	119.0 106.0 107.1 113.4 108.4 94.9 100.2	126.0 112.0 113.4 118.8 124.2	132.0 116.0 113.5 118.7	138.0 120.0 118.8 124.2 118.7
POWER INPUT (kW)	Heating (nominal max) 38.75 Cooling (nominal) 40.98 High Performance Heating (UK) 43.79 COP Priority Heating (UK) 37.59 Cooling (UK) 26.23	41.17 43.44 46.52 49.26 43.59 27.80	43.59 45.90 49.26 53.08 45.56	46.97 49.36 53.08 57.11 49.02	50.54 53.32 57.11 49.02 34.12
COP / EER (nominal max)	2.89 / 2.44	2.89 / 2.44	2.89 / 2.44	2.81 / 2.35	2.73 / 2.25
MAX No. OF CONNECTABLE INDOOR UNITS	50	50	50	50	50
MAX CONNECTABLE CAPACITY	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity
AIRFLOW (m³/min)	High 315 / 315	315 / 295	295 / 295	295 / 410	410 / 410
PIPE SIZE mm (in)	Gas 41.28 (1-5/8") Liquid 28.58 (1-1/8")	41.28 (1-5/8") 28.58 (1-1/8")	41.28 (1-5/8") 28.58 (1-1/8")	41.28 (1-5/8") 34.93 (1-3/8")	41.28 (1-5/8") 34.93 (1-3/8")
SOUND PRESSURE LEVEL (dBA) @ 1m	Heating / Cooling 73.0 / 68.5	71.5 / 68.0	67.5 / 66.5	71.5 / 71.0	73.0 / 73.0
SOUND POWER LEVEL (dBA) @ 100% Capacity	Heating / Cooling 92.0 / 86.0	90.2 / 86.0	87.0 / 85.0	90.2 / 89.8	92.0 / 92.0
SOUND POWER LEVEL (dBA) @ 90% Capacity	Heating / Cooling 88.5 / 81.5	86.8 / 80.8	84.0 / 79.5	87.2 / 84.3	89.0 / 86.5
SOUND POWER LEVEL (dBA) @ 75% Capacity	Heating / Cooling 82.5 / 77.0	81.6 / 76.5	80.5 / 76.5	82.9 / 80.1	84.5 / 82.0
WEIGHT (kg)	289 + 289	289 + 335	335 + 335	335 + 335	335 + 335
DIMENSIONS (mm)	Width 1240 + 1240	1240 + 1750	1750 + 1750	1750 + 1750	1750 + 1750
(1798mm without legs)	Depth 740	740	740	740	740
	Height 1858	1858	1858	1858	1858
ELECTRICAL SUPPLY ¹	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE ¹	Three	Three	Three	Three	Three
STARTING CURRENT (A) ¹	8	8	8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A) ¹	Heating/Cooling [MAX] 62.1 / 65.7 [39.0 + 39.0]	66.0 / 69.6 [39.0 + 43.2]	69.9 / 73.6 [43.2 + 43.2]	75.3 / 79.1 [43.2 + 51.4]	81.0 / 85.5 [51.4 + 51.4]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling -20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52
FUSE RATING (MCB sizes BS EN 60947-2) - (A) ¹	1 x 40 / 1 x 40	1 x 40 / 1 x 50	1 x 50 / 1 x 50	1 x 50 / 1 x 63	1 x 63 / 1 x 63
MAINS CABLE No. Cores ¹	4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088) 21.6 / 45.1	21.6 / 45.1	21.6 / 45.1	21.6 / 45.1	21.6 / 45.1
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088) 64.4 / 134.5	64.4 / 134.5	64.4 / 134.5	64.4 / 134.5	64.4 / 134.5

Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.

Nominal Conditions: Cooling; indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB. Nominal Max Conditions: Heating; indoor 20°C DB; outdoor 7°C DB, 6°C WB.

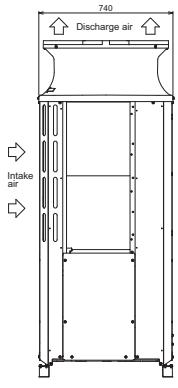
UK Conditions: Cooling; indoor 21°C DB, 15°C WB; outdoor 27°C DB. UK Conditions: Heating; indoor 20°C DB, outdoor 0°C DB, -1°C WB.

¹ A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

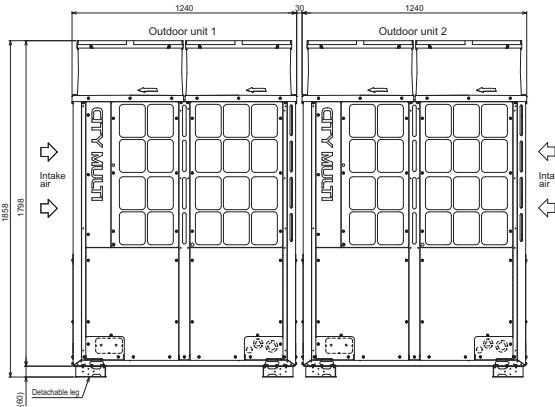
Product Dimensions

PURY-P900YSNW-A2

Side View



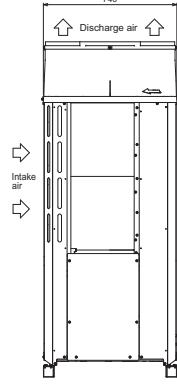
Front View



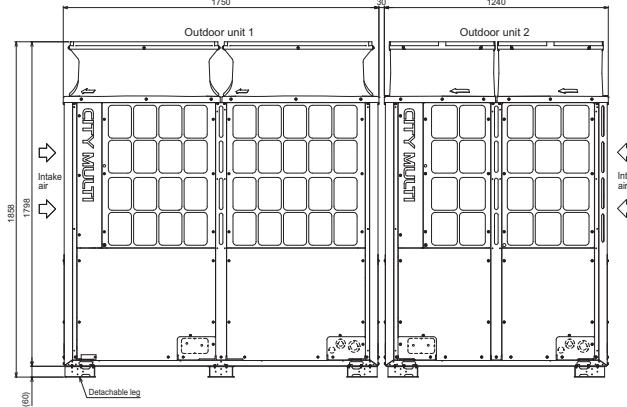
Product Dimensions

PURY-P950YSNW-A2

Side View



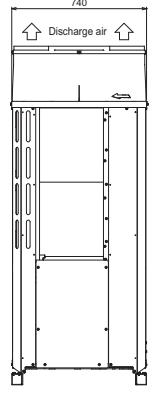
Front View



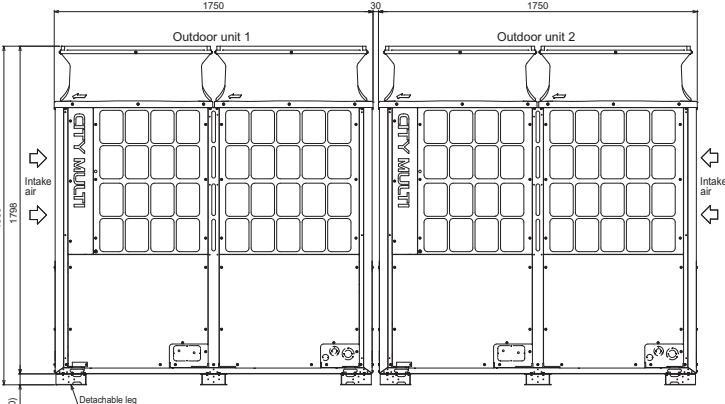
Product Dimensions

PURY-P-1000/1050/1100YSNW-A2

Side View

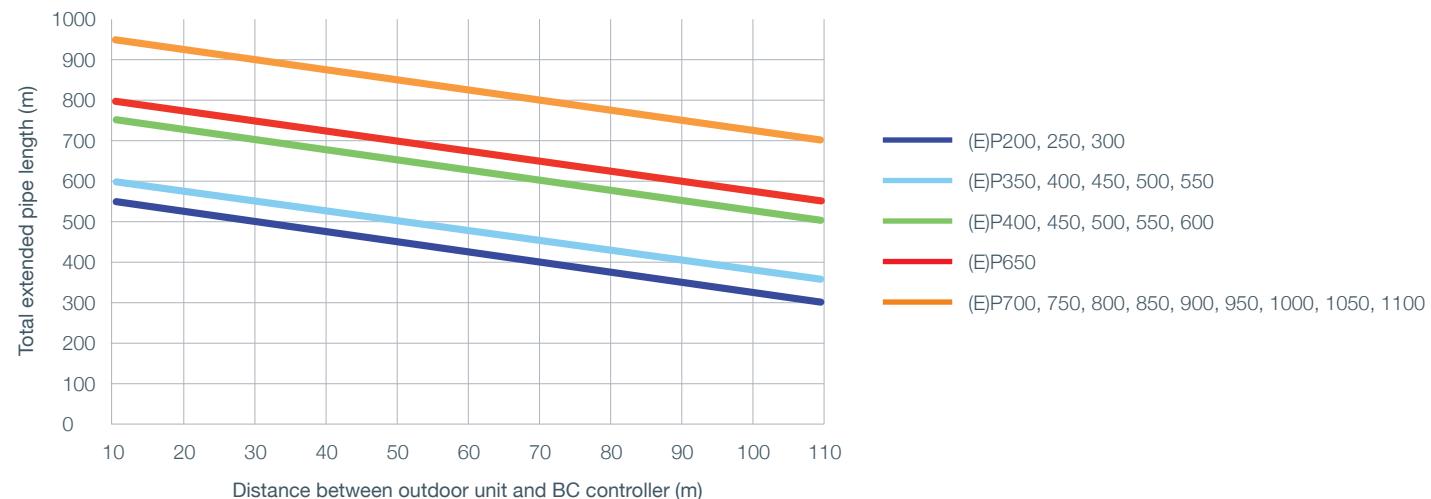


Front View

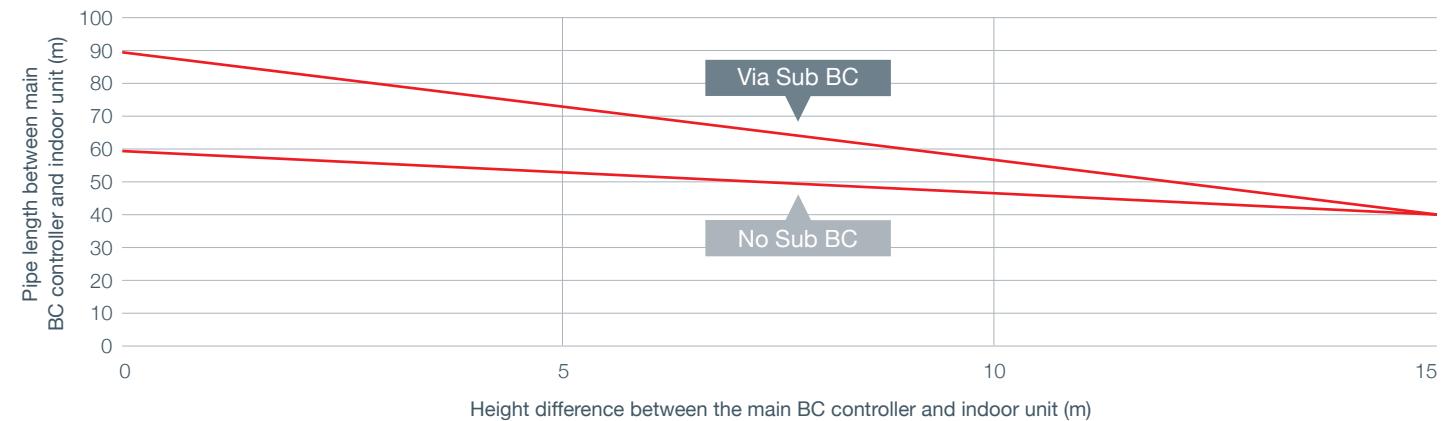


R2 Series Piping Design (R410A)

GRAPH 1: TOTAL PIPING LENGTH RESTRICTIONS



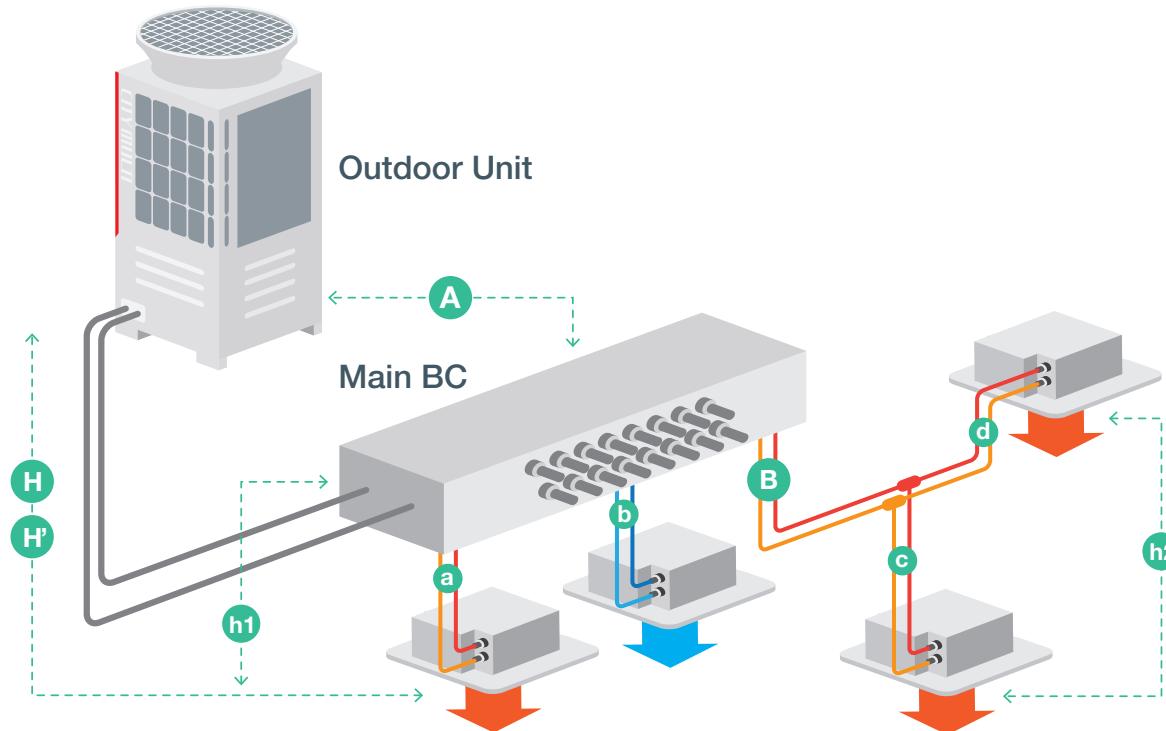
GRAPH 2: PIPE LENGTH BETWEEN BC CONTROLLER & INDOOR UNIT



Note: For all other piping restrictions please refer to the City Multi Databook

R2 Series Piping Design (R410A)

1 BC CONTROLLER, NO SUB BC CONTROLLER



PIPE LENGTH	PIPE SECTION	MAX LENGTH
Total Piping Length	A+B+a+b+c+d	(See Graph 1)
Furthest Piping Length	A+B+d	165m
Length Between OU and BC	A	110m ^{*1}
Length Between Furthest IU and BC	B+d	60m ^{*2} (40m) ^{*3}
Height Between OU and IU (OU above IU)	H	90m ^{*4}
Height Between OU and IU (OU below IU)	H'	60m ^{*2}
Height Between IU and BC	h1	15m
Height Between IU and IU	h2	30m

Notes: *1 Please refer to Graph 1. *2 Height difference between BC controller and furthest indoor unit is zero. Please refer to graph 2. *3 If P200 or P250 indoor unit connected on system. *4 Please contact your sales office for guidance. For guidance on applying Sub BC controllers, please contact your sales office.

Y Series VRF (22.4-45kW)

Heat Pump Outdoor Unit (Heating or Cooling)



The **PUHY-P** City Multi Y Series VRF Heat Pump system provides a simple and flexible solution where there is demand for one outdoor unit to provide all (or selected) indoor units with heating or cooling at a given time. These modular heat pump systems provide complete design flexibility for applications such as open-plan offices, call centres and retail spaces.

Key Features & Benefits

- Energy efficient heat pump system
- Delivers high levels of thermal and acoustic comfort
- Unique 2-pipe system for ease of installation and maintenance
- Adjustable noise level options to suit application
- Connectable to a broad choice of indoor unit types and capacities



OUTDOOR UNITS	PUHY-P200YNW-A2	PUHY-P250YNW-A2	PUHY-P300YNW-A2	PUHY-P350YNW-A2	PUHY-P400YNW-A2	PUHY-P400YSNW-A2
CAPACITY (kW)	Heating (nominal max) 25.0 Cooling (nominal) 22.4 High Performance Heating (UK) 25.0 COP Priority Heating (UK) 22.8 Cooling (UK) 20.0	31.5 28.0 31.5 35.6 28.7 25.1	37.5 33.5 35.6 42.8 34.1 30.0	45.0 40.0 42.8 45.0 41.0 35.8	50.0 45.0 45.0 50.0 43.0 40.3	50.0 44.8 50.0 50.0 45.5 40.1
POWER INPUT (kW)	Heating (nominal max) 6.08 Cooling (nominal) 6.03 High Performance Heating (UK) 7.66 COP Priority Heating (UK) 6.08 Cooling (UK) 3.50	8.49 9.62 10.70 8.49 5.58	10.30 11.31 13.70 10.30 6.56	12.32 13.98 16.39 12.32 8.11	14.20 17.57 16.05 13.77 11.24	12.16 12.47 15.56 12.16 7.23
COP / EER (nominal max)	4.11 / 3.71	3.71 / 2.91	3.64 / 2.96	3.65 / 2.86	3.52 / 2.56	4.11 / 3.59
MAX No. OF CONNECTABLE INDOOR UNITS	20	25	30	35	40	40
MAX CONNECTABLE CAPACITY	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity
AIRFLOW (m³/min)	High 170	185	240	270	300	170 / 170
PIPE SIZE mm (in)	Gas 22.2 (7/8") Liquid 9.52 (3/8")	22.2 (7/8") 9.52 (3/8")*1	22.2 (7/8") 9.52 (3/8")*1	28.58 (1-1/8") 12.7 (1/2")	28.58 (1-1/8") 12.7 (1/2")	28.58 (1-1/8") 12.7 (1/2")
SOUND PRESSURE LEVEL (dBA)	Heating / Cooling 59.0 / 58.0	61.0 / 60.0	64.5 / 61.0	64.5 / 62.0	67.0 / 65.0	62.0 / 61.0
SOUND POWER LEVEL (dBA)	Heating / Cooling 77.0 / 75.0	80.0 / 78.0	84.0 / 80.0	84.0 / 80.0	86.0 / 82.0	80.0 / 78.0
WEIGHT (kg)	213	213	226	277	277	213 + 213
DIMENSIONS (mm)	Width 920	920	920	1240	1240	920 + 920
	Depth 740	740	740	740	740	740
(1650mm without legs)	Height 1858	1858	1858	1858	1858	1858
ELECTRICAL SUPPLY*2	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE*2	Three	Three	Three	Three	Three	Three
STARTING CURRENT (A)*2	8	8	8	8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A)*2	Heating / Cooling [MAX] 9.7 / 9.6 [16.1]	13.6 / 15.4 [17.8]	16.5 / 18.1 [22.7]	19.7 / 22.4 [26.4]	22.7 / 28.1 [31.9]	19.5 / 19.9 [16.1 + 16.1]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling -20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52
FUSE RATING (MCB sizes BS EN 60947-2) (A)*2	1 x 20	1 x 20	1 x 25	1 x 32	1 x 32	1 x 20 / 1 x 20
MAINS CABLE No. Cores*2	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth / 4 + earth
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088) 6.5 / 13.6	6.5 / 13.6	6.5 / 13.6	9.8 / 20.5	9.8 / 20.5	13 / 27.1
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088) 15.9 / 33.2	22.9 / 47.8	23.4 / 48.9	24 / 50.1	24.4 / 51	32 / 66.8

Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.

Nominal Conditions: Cooling; indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB. Nominal Max Conditions: Heating; indoor 20°C DB; outdoor 7°C DB, 6°C WB.

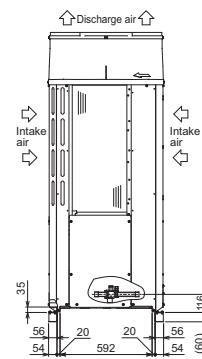
UK Conditions: Cooling; indoor 21°C DB, 15°C WB; outdoor 27°C DB. UK Conditions: Heating; indoor 20°C DB, outdoor 0°C DB, -1°C WB.

*1 12.7mm(1/2") if P250 furthest length ≥ 90m, P300 furthest length ≥ 40m. *2 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

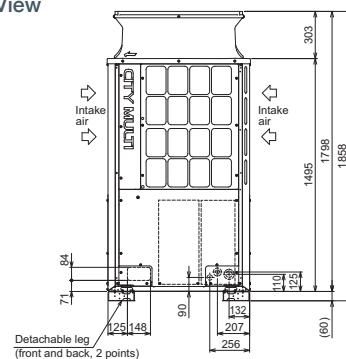
Product Dimensions

PUHY-P200/250/300YNW-A2

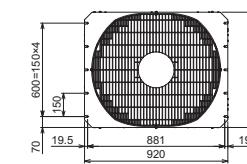
Side View



Front View



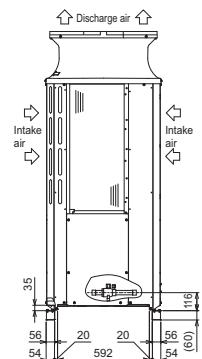
Upper View



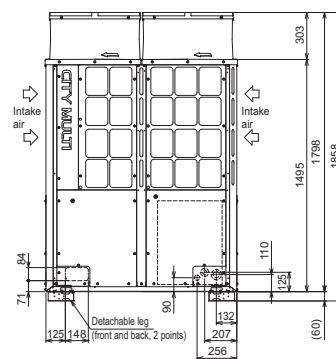
Product Dimensions

PUHY-P350/400YNW-A2

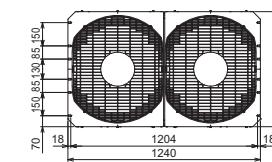
Side View



Front View



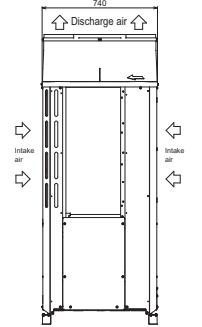
Upper View



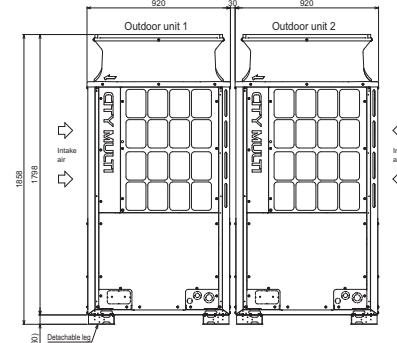
Product Dimensions

PUHY-P400YSNW-A2

Side View



Front View



Y Series VRF (50-61.5kW)

Heat Pump Outdoor Unit (Heating or Cooling)



The **PUHY-P** City Multi Y Series VRF Heat Pump system provides a simple and flexible solution where there is demand for one outdoor unit to provide all (or selected) indoor units with heating or cooling at a given time. These modular heat pump systems provide complete design flexibility for applications such as open-plan offices, call centres and retail spaces.

Key Features & Benefits

- Energy efficient heat pump system
- Delivers high levels of thermal and acoustic comfort
- Unique 2-pipe system for ease of installation and maintenance
- Adjustable noise level options to suit application
- Connectable to a broad choice of indoor unit types and capacities



OUTDOOR UNITS	PUHY-P450YNW-A2	PUHY-P450YSNW-A2	PUHY-P500YNW-A2	PUHY-P500YSNW-A2	PUHY-P550YSNW-A2
CAPACITY (kW)	Heating (nominal max) 56.0 Cooling (nominal) 50.0 High Performance Heating (UK) 50.4 COP Priority Heating (UK) 48.2 Cooling (UK) 44.8	56.5 50.4 56.5 56.7 51.4 45.1	63.0 56.0 56.7 54.2 50.1	63.0 56.0 63.0 57.3 50.1	69.0 61.5 65.6 62.8 55.0
POWER INPUT (kW)	Heating (nominal max) 16.51 Cooling (nominal) 18.86 High Performance Heating (UK) 18.66 COP Priority Heating (UK) 16.01 Cooling (UK) 12.07	14.56 15.94 18.64 14.56 9.25	17.89 21.05 20.22 17.35 13.47	16.98 19.85 21.73 16.98 11.51	18.80 21.65 25.00 18.80 12.56
COP / EER (nominal max)	3.39 / 2.65	3.88 / 3.16	3.52 / 2.66	3.71 / 2.82	3.67 / 2.84
MAX No. OF CONNECTABLE INDOOR UNITS	45	45	50	50	50
MAX CONNECTABLE CAPACITY	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity
AIRFLOW (m³/min)	High 305	170 / 185	365	185 / 185	185 / 240
PIPE SIZE mm (in)	Gas 28.58 (1-1/8") Liquid 15.88 (5/8")	28.58 (1-1/8") 15.88 (5/8")	28.58 (1-1/8") 15.88 (5/8")	28.58 (1-1/8") 15.88 (5/8")	28.58 (1-1/8") 15.88 (5/8")
SOUND PRESSURE LEVEL (dBA)	Heating / Cooling 71.0 / 65.5	63.0 / 62.0	66.5 / 63.5	64.0 / 63.0	66.0 / 63.5
SOUND POWER LEVEL (dBA)	Heating / Cooling 90.0 / 84.0	82.0 / 80.0	85.0 / 82.0	83.0 / 81.0	85.0 / 82.0
WEIGHT (kg)	293	213 + 213	334	213 + 213	213 + 226
DIMENSIONS (mm)	Width 1240 Depth 740 (1798mm without legs) Height 1858	920 + 920 740 1858	1750 740 1858	920 + 920 740 1858	920 + 920 740 1858
ELECTRICAL SUPPLY*1	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE*1	Three	Three	Three	Three	Three
STARTING CURRENT (A)*1	8	8	8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A)*1	Heating/Cooling [MAX] 26.4 / 30.2 [37.1]	23.3 / 25.5 [16.1 + 17.8]	28.6 / 33.7 [43.7]	27.2 / 31.8 [17.8 + 17.8]	30.1 / 34.7 [17.8 + 22.7]
GUARANTEED OPERATING RANGE (°C)	Heating/Cooling -20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52
FUSE RATING (MCB sizes BS EN 60947-2) - (A)*1	1 x 40	1 x 20 / 1 x 20	1 x 50	1 x 20 / 1 x 20	1 x 20 / 1 x 25
MAINS CABLE No. Cores*1	4 + earth	4 + earth / 4 + earth	4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088) 10.8 / 22.6	13 / 27.1	10.8 / 22.6	13 / 27.1	13 / 27.1
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088) 32.2 / 67.2	32 / 66.8	33.1 / 69.1	32.9 / 68.7	34.7 / 72.5

Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.

Nominal Conditions: Cooling; indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB. Nominal Max Conditions: Heating; indoor 20°C DB; outdoor 7°C DB, 6°C WB.

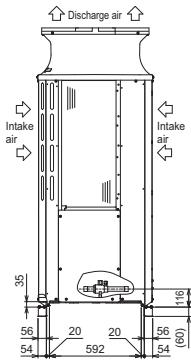
UK Conditions: Cooling; indoor 21°C DB, 15°C WB; outdoor 27°C DB. UK Conditions: Heating; indoor 20°C DB, outdoor 0°C DB, -1°C WB.

*1 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

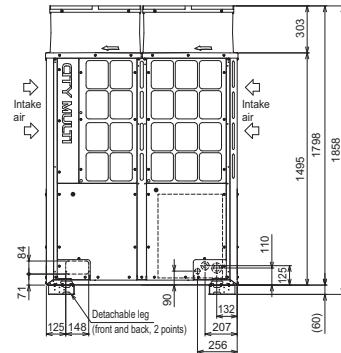
Product Dimensions

PUHY-P450YNW-A2

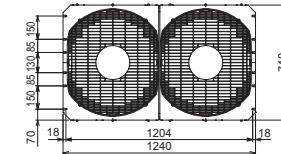
Side View



Front View



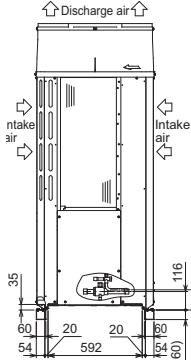
Upper View



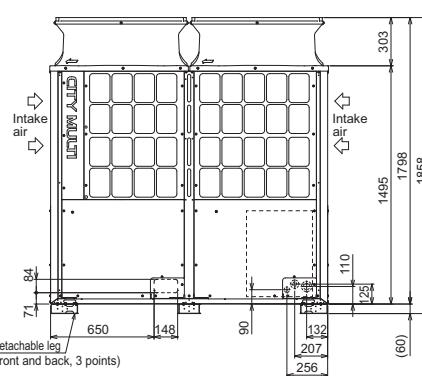
Product Dimensions

PUHY-P500YNW-A2

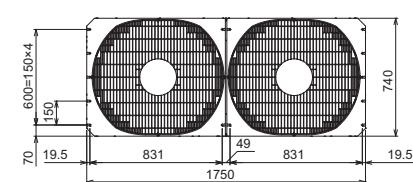
Side View



Front View



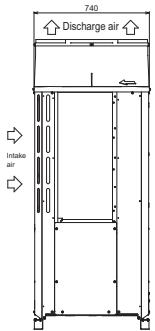
Upper View



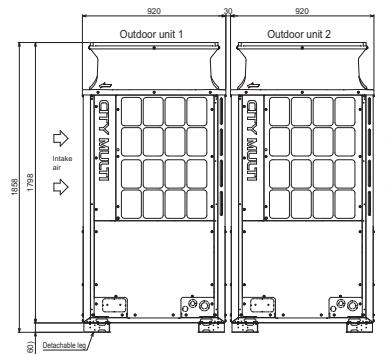
Product Dimensions

PUHY-P450/500/550YSNW-A2

Side View



Front View



Y Series VRF (67-95kW)

Heat Pump Outdoor Unit (Heating or Cooling)



The **PUHY-P** City Multi Y Series VRF Heat Pump system provides a simple and flexible solution where there is demand for one outdoor unit to provide all (or selected) indoor units with heating or cooling at a given time. These modular heat pump systems provide complete design flexibility for applications such as open-plan offices, call centres and retail spaces.

Key Features & Benefits

- Energy efficient heat pump system
- Delivers high levels of thermal and acoustic comfort
- Unique 2-pipe system for ease of installation and maintenance
- Adjustable noise level options to suit application
- Connectable to a broad choice of indoor unit types and capacities



OUTDOOR UNITS	PUHY-P600YSNW-A2	PUHY-P650YSNW-A2	PUHY-P700YSNW-A2	PUHY-P750YSNW-A2	PUHY-P800YSNW-A2	PUHY-P850YSNW-A2
CAPACITY (kW)	Heating (nominal max) 75.0 Cooling (nominal) 67.0 High Performance Heating (UK) 71.3 COP Priority Heating (UK) 68.3 Cooling (UK) 60.0	81.5 73.0 77.4 80.0 85.5 90.3 95.0 86.5 91.9 96.0 90.0 95.4	90.0 80.0 74.2 81.9 86.5 91.2 95.0 90.0 95.4	95.0 85.0 80.0 86.5 91.9 96.0 90.0 95.4	101.0 90.0 86.5 91.9 96.0 90.0 95.4	106.0 95.0 91.2 85.0 106.0 95.0 95.4
POWER INPUT (kW)	Heating (nominal max) 20.60 Cooling (nominal) 23.34 High Performance Heating (UK) 27.40 COP Priority Heating (UK) 20.60 Cooling (UK) 13.54	22.70 27.96 30.19 22.70 16.22	24.65 28.88 32.78 24.65 16.75	26.53 32.56 35.28 26.53 18.88	28.85 33.96 38.37 28.85 19.70	30.72 37.69 34.71 29.80 24.12
COP / EER (nominal max)	3.64 / 2.87	3.59 / 2.61	3.65 / 2.77	3.58 / 2.61	3.50 / 2.65	3.45 / 2.52
MAX No. OF CONNECTABLE INDOOR UNITS	50	50	50	50	50	50
MAX CONNECTABLE CAPACITY	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity
AIRFLOW (m³/min)	High 240 / 240	185 / 300	270 / 270	270 / 300	270 / 305	300 / 305
PIPE SIZE mm (in)	Gas 28.58 (1-1/8") Liquid 15.88 (5/8")	28.58 (1-1/8") 15.88 (5/8")	34.93 (1-3/8") 19.05 (3/4")	34.93 (1-3/8") 19.05 (3/4")	34.93 (1-3/8") 19.05 (3/4")	41.28 (1-5/8") 19.05 (3/4")
SOUND PRESSURE LEVEL (dBA)	Heating / Cooling 67.5 / 64.0	68.5 / 66.5	67.5 / 65.0	69.0 / 67.0	71.0 / 67.5	73.0 / 68.5
SOUND POWER LEVEL (dBA)	Heating / Cooling 87.0 / 83.0	87.0 / 83.0	87.0 / 83.0	88.0 / 84.0	91.0 / 85.0	91.0 / 86.0
WEIGHT (kg)	226 + 226	213 + 277	277 + 277	277 + 277	277 + 293	277 + 293
DIMENSIONS (mm)	Width 920 + 920 Depth 740 (1798mm without legs) Height 1858	920 + 1240 740 1858	1240 + 1240 740 1858	1240 + 1240 740 1858	1240 + 1240 740 1858	1240 + 1240 740 1858
ELECTRICAL SUPPLY*1	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE*1	Three	Three	Three	Three	Three	Three
STARTING CURRENT (A)*1	8	8	8	8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A)*1	Heating/Cooling [MAX] 33.0 / 37.4 [22.7 + 22.7]	36.4 / 44.8 [17.8 + 31.9]	39.5 / 46.3 [26.4 + 26.4]	42.5 / 52.2 [26.4 + 31.9]	46.2 / 54.4 [26.4 + 37.1]	49.2 / 60.4 [31.9 + 37.1]
GUARANTEED OPERATING RANGE (°C)	Heating/Cooling -20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52
FUSE RATING (MCB sizes BS EN 60947-2) - (A)*1	1 x 25 / 1 x 25	1 x 20 / 1 x 32	1 x 32 / 1 x 32	1 x 32 / 1 x 32	1 x 32 / 1 x 40	1 x 32 / 1 x 40
MAINS CABLE No. Cores*1	4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088) 13 / 27.1	16.3 / 34.0	19.6 / 40.9	19.6 / 40.9	20.6 / 43.0	20.6 / 43.0
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088) 34.7 / 72.5	35.2 / 73.5	44.8 / 93.5	44.8 / 93.5	44.7 / 93.3	46.5 / 97.1

Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.

Nominal Conditions: Cooling; indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB. Nominal Max Conditions: Heating; indoor 20°C DB; outdoor 7°C DB, 6°C WB.

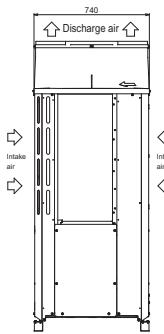
UK Conditions: Cooling; indoor 21°C DB, 15°C WB; outdoor 27°C DB. UK Conditions: Heating; indoor 20°C DB, outdoor 0°C DB, -1°C WB.

*1 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

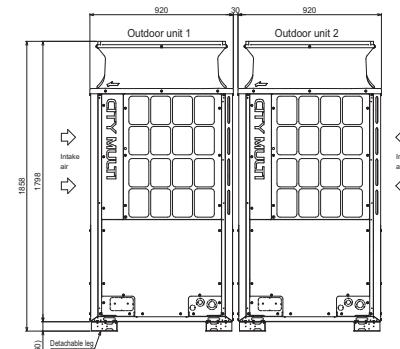
Product Dimensions

PUHY-P600YSNW-A2

Side View



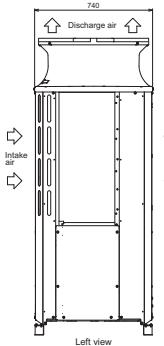
Front View



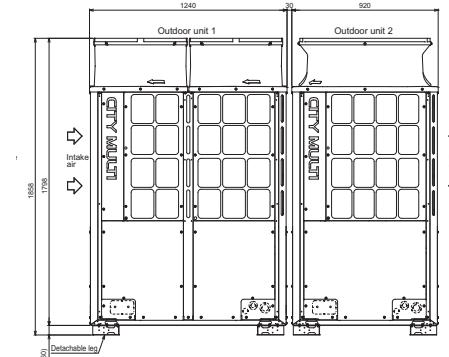
Product Dimensions

PUHY-P650YSNW-A2

Side View



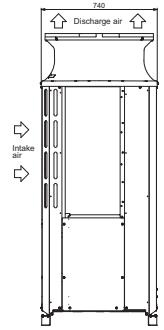
Front View



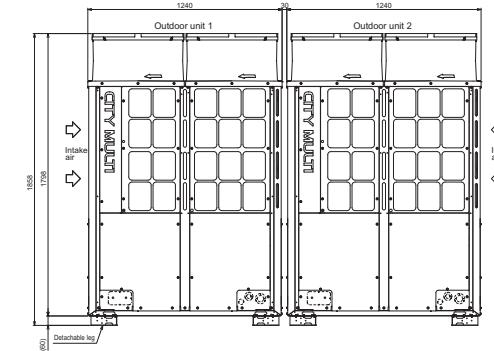
Product Dimensions

PUHY-P700/750/800/850YSNW-A2

Side View



Front View



Y Series VRF (100-125kW)

Heat Pump Outdoor Unit (Heating or Cooling)



The **PUHY-P** City Multi Y Series VRF Heat Pump system provides a simple and flexible solution where there is demand for one outdoor unit to provide all (or selected) indoor units with heating or cooling at a given time. These modular heat pump systems provide complete design flexibility for applications such as open-plan offices, call centres and retail spaces.

Key Features & Benefits

- Energy efficient heat pump system
- Delivers high levels of thermal and acoustic comfort
- Unique 2-pipe system for ease of installation and maintenance
- Adjustable noise level options to suit application
- Connectable to a broad choice of indoor unit types and capacities



OUTDOOR UNITS	PUHY-P900YSNW-A2	PUHY-P950YSNW-A2	PUHY-P1000YSNW-A2	PUHY-P1050YSNW-A2	PUHY-P1100YSNW-A2
CAPACITY (kW)	Heating (nominal max) 112.0 Cooling (nominal) 100.0 High Performance Heating (UK) 100.8 COP Priority Heating (UK) 96.3 Cooling (UK) 89.5	121.5 108.0 109.4 113.0 113.9 108.8 96.7 101.1	126.5 118.0 118.4 118.4 118.4 113.1 105.6 111.9	131.5 118.0 118.4 118.4 118.4 113.1 105.6 111.9	140.0 125.0 126.0 126.0 126.0 120.4 120.4 111.9
POWER INPUT (kW)	Heating (nominal max) 33.03 Cooling (nominal) 38.91 High Performance Heating (UK) 37.32 COP Priority Heating (UK) 32.04 Cooling (UK) 24.90	33.19 38.84 37.50 32.19 24.86	35.04 42.48 39.60 33.99 27.19	36.93 46.09 41.73 35.82 29.50	38.88 46.99 43.93 37.71 30.07
COP / EER (nominal max)	3.39 / 2.57	3.66 / 2.78	3.61 / 2.66	3.56 / 2.56	3.60 / 2.66
MAX No. OF CONNECTABLE INDOOR UNITS	50	50	50	50	50
MAX CONNECTABLE CAPACITY	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity
AIRFLOW (m³/min)	High 305 / 305 Gas 41.28 (1-5/8") Liquid 19.05 (3/4")	185 / 270 / 270 41.28 (1-5/8") 19.05 (3/4")	185 / 270 / 300 41.28 (1-5/8") 19.05 (3/4")	185 / 300 / 300 41.28 (1-5/8") 19.05 (3/4")	270 / 270 / 300 41.28 (1-5/8") 19.05 (3/4")
PIPE SIZE mm (in)					
SOUND PRESSURE LEVEL (dBA)	Heating / Cooling 74.0 / 68.5	68.5 / 66.5	70.0 / 68.0	70.5 / 69.0	70.5 / 68.5
SOUND POWER LEVEL (dBA)	Heating / Cooling 93.0 / 87.0	88.0 / 84.0	89.0 / 85.0	89.0 / 86.0	90.0 / 86.0
WEIGHT (kg)	293 + 293	213 + 277 + 277	213 + 277 + 277	213 + 277 + 277	277 + 277 + 277
DIMENSIONS (mm)	Width 1240 + 1240 Depth 740 (1798mm without legs) Height 1858	920 + 1240 + 1240 740 1858	920 + 1240 + 1240 740 1858	920 + 1240 + 1240 740 1858	1240 + 1240 + 1240 740 1858
ELECTRICAL SUPPLY*1	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE*1	Three	Three	Three	Three	Three
STARTING CURRENT (A)*1	8	8	8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A)*1	Heating/Cooling [MAX] 52.9 / 62.4 [37.1 + 37.1]	53.2 / 62.2 [17.8 + 26.4 + 26.4]	56.1 / 68.1 [17.8 + 26.4 + 31.9]	59.2 / 73.9 [17.8 + 31.9 + 31.9]	62.3 / 75.3 [26.4 + 26.4 + 31.9]
GUARANTEED OPERATING RANGE (°C)	Heating/Cooling -20~-15.5 / -5~-52	-20~-15.5 / -5~-52	-20~-15.5 / -5~-52	-20~-15.5 / -5~-52	-20~-15.5 / -5~-52
FUSE RATING (MCB sizes BS EN 60947-2) - (A)*1	1 x 40 / 1 x 40	1 x 20 / 1 x 32 / 1 x 32	1 x 20 / 1 x 32 / 1 x 32	1 x 20 / 1 x 32 / 1 x 32	1 x 32 / 1 x 32 / 1 x 32
MAINS CABLE No. Cores*1	4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth / 4 + earth	4 + earth / 4 + earth / 4 + earth	4 + earth / 4 + earth / 4 + earth
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088) 21.6 / 45.1	26.1 / 54.5	26.1 / 54.5	26.1 / 54.5	29.4 / 61.4
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088) 46.4 / 96.9	45.9 / 95.8	45.9 / 95.8	45.9 / 95.8	45.6 / 95.2

Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.

Nominal Conditions: Cooling; indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB. Nominal Max Conditions: Heating; indoor 20°C DB; outdoor 7°C DB, 6°C WB.

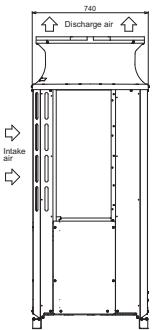
UK Conditions: Cooling; indoor 21°C DB, 15°C WB; outdoor 27°C DB. UK Conditions: Heating; indoor 20°C DB, outdoor 0°C DB, -1°C WB.

*1 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

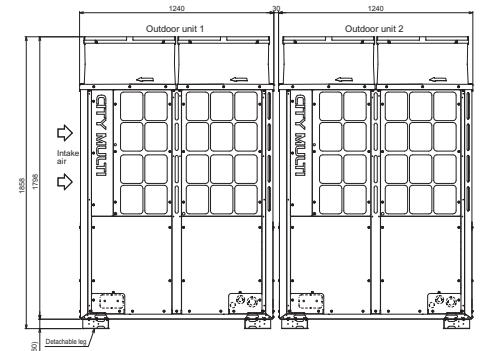
Product Dimensions

PUHY-P900YSNW-A2

Side View



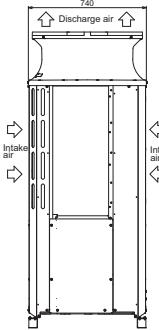
Front View



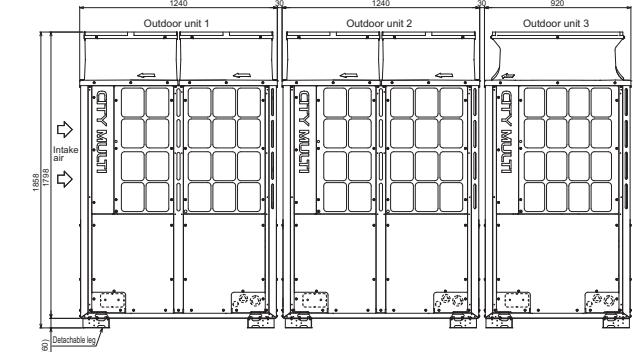
Product Dimensions

PUHY-P950/1000/1050YSNW-A2

Side View



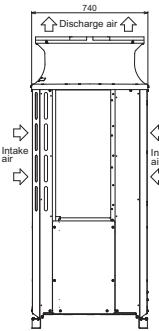
Front View



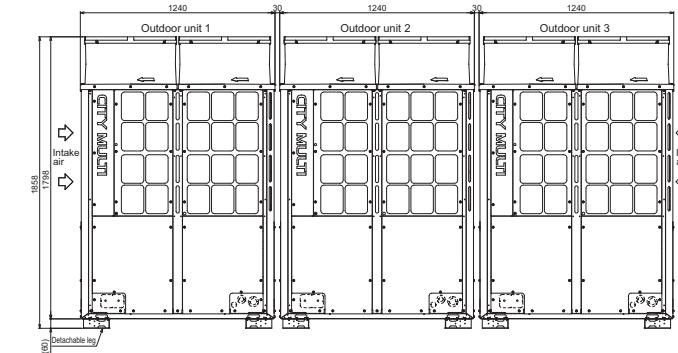
Product Dimensions

PUHY-P1100YSNW-A2

Side View



Front View



Y Series VRF (130-150kW)

Heat Pump Outdoor Unit (Heating or Cooling)



The **PUHY-P** City Multi Y Series VRF Heat Pump system provides a simple and flexible solution where there is demand for one outdoor unit to provide all (or selected) indoor units with heating or cooling at a given time. These modular heat pump systems provide complete design flexibility for applications such as open-plan offices, call centres and retail spaces.

Key Features & Benefits

- Energy efficient heat pump system
- Delivers high levels of thermal and acoustic comfort
- Unique 2-pipe system for ease of installation and maintenance
- Adjustable noise level options to suit application
- Connectable to a broad choice of indoor unit types and capacities



OUTDOOR UNITS	PUHY-P1150YSNW-A2	PUHY-P1200YSNW-A2	PUHY-P1250YSNW-A2	PUHY-P1300YSNW-A2	PUHY-P1350YSNW-A2	
CAPACITY (kW)	Heating (nominal max) Cooling (nominal) High Performance Heating (UK) COP Priority Heating (UK) Cooling (UK)	145.0 130.0 130.5 124.7 116.4	150.0 135.0 135.0 129.0 120.8	156.0 140.0 140.4 134.2 125.3	162.0 145.0 145.8 139.3 129.8	168.0 150.0 151.2 144.5 134.3
POWER INPUT (kW)	Heating (nominal max) Cooling (nominal) High Performance Heating (UK) COP Priority Heating (UK) Cooling (UK)	40.84 50.58 46.15 39.61 32.37	42.61 54.43 48.15 41.33 34.84	44.95 55.77 50.79 43.60 35.69	47.23 57.08 53.37 45.81 36.53	49.55 58.36 55.99 48.06 37.35
COP / EER (nominal max)	3.55 / 2.57	3.52 / 2.48	3.47 / 2.51	3.43 / 2.54	3.39 / 2.57	
MAX NO. OF CONNECTABLE INDOOR UNITS	50	50	50	50	50	
MAX CONNECTABLE CAPACITY	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	
AIRFLOW (m³/min)	High 270 / 300 / 300	300 / 300 / 300	300 / 300 / 305	300 / 305 / 305	305 / 305 / 305	
PIPE SIZE mm (in)	Gas 41.28 (1-5/8") Liquid 19.05 (3/4")	41.28 (1-5/8") 19.05 (3/4")	41.28 (1-5/8") 19.05 (3/4")	41.28 (1-5/8") 19.05 (3/4")	41.28 (1-5/8") 19.05 (3/4")	
SOUND PRESSURE LEVEL (dBA)	Heating / Cooling 71.5 / 69.5	72.0 / 70.0	74.0 / 70.0	75.0 / 70.0	76.0 / 70.5	
SOUND POWER LEVEL (dBA)	Heating / Cooling 90.0 / 86.0	91.0 / 87.0	93.0 / 88.0	94.0 / 88.0	95.0 / 89.0	
WEIGHT (kg)	277 + 277 + 277	277 + 277 + 277	277 + 277 + 293	277 + 293 + 293	293 + 293 + 293	
DIMENSIONS (mm)	Width 1240 + 1240 + 1240 Depth 740 Height 1858	1240 + 1240 + 1240 740 1858				
ELECTRICAL SUPPLY*1	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	
PHASE*1	Three	Three	Three	Three	Three	
STARTING CURRENT (A)*1	8	8	8	8	8	
NOMINAL SYSTEM RUNNING CURRENT (A)*1	Heating/Cooling [MAX] 65.4 / 81.1 [26.4 + 31.9 + 31.9]	68.3 / 87.2 [31.9 + 31.9 + 31.9]	72.0 / 89.4 [31.9 + 31.9 + 37.1]	75.7 / 91.5 [31.9 + 37.1 + 37.1]	79.4 / 93.5 [37.1 + 37.1 + 37.1]	
GUARANTEED OPERATING RANGE (°C)	Heating/Cooling -20~-15.5 / -5~-52	-20~-15.5 / -5~-52	-20~-15.5 / -5~-52	-20~-15.5 / -5~-52	-20~-15.5 / -5~-52	
FUSE RATING (MCB sizes BS EN 60947-2) - (A)*1	1 x 32 / 1 x 32 / 1 x 32	1 x 32 / 1 x 32 / 1 x 32	1 x 32 / 1 x 32 / 1 x 40	1 x 32 / 1 x 40 / 1 x 40	1 x 40 / 1 x 40 / 1 x 40	
MAINS CABLE No. Cores*1	4 + earth / 4 + earth / 4 + earth	4 + earth / 4 + earth / 4 + earth	4 + earth / 4 + earth / 4 + earth	4 + earth / 4 + earth / 4 + earth	4 + earth / 4 + earth / 4 + earth	
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088) 29.4 / 61.4	29.4 / 61.4	30.4 / 63.5	31.4 / 65.6	32.4 / 67.7	
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088) 45.6 / 95.2	45.6 / 95.2	47.3 / 98.8	47.2 / 98.6	47.1 / 98.3	

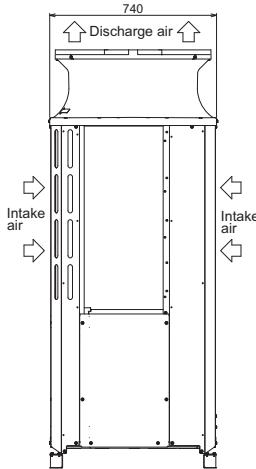
Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.

Nominal Conditions: Cooling: indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB. Nominal Max Conditions: Heating: indoor 20°C DB; outdoor 7°C DB, 6°C WB.

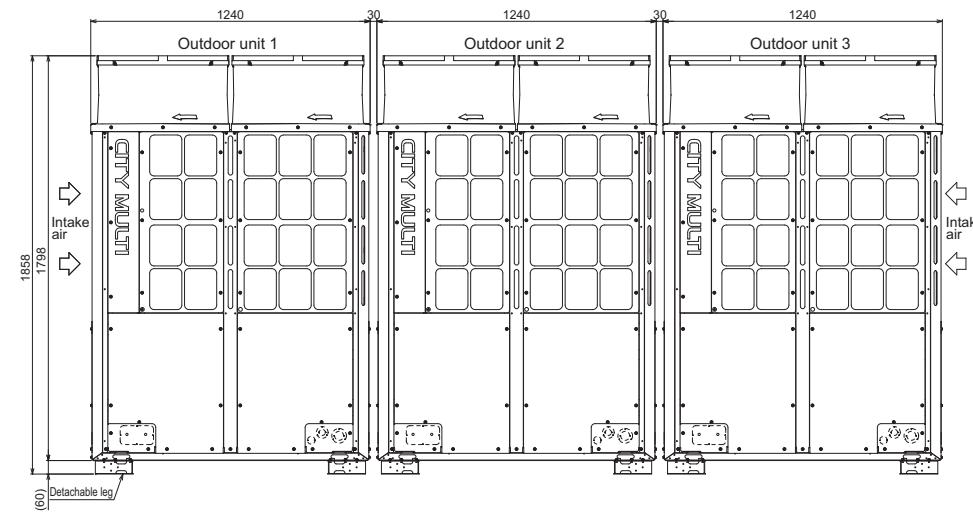
UK Conditions: Cooling: indoor 21°C DB, 15°C WB; outdoor 27°C DB. UK Conditions: Heating: indoor 20°C DB, outdoor 0°C DB, -1°C WB.

*1 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

Side View



Front View



Y Series Single Fan (12.5-15.5kW)

Mini VRF Heat Pump Outdoor Unit



VRF technology and efficiency can now be delivered in both small and large capacities, offering a cost-effective solution to connect up to 12 indoor units to one small, powerful, mini VRF unit. Delivering VRF efficiency, quality and functionality, with the additional flexibility of being free-standing or wall-hung, the **PUMY-SP** single fan side-blow unit makes the most of even the smallest plant spaces, making it ideal for high specification residential and retail applications in city centres.

Key Features & Benefits

- Small footprint, long pipe-runs and wall-hanging capability provides flexibility of install
- Broad compatibility across M Series, Mr Slim and City Multi indoor units, providing design choice (see page 1.4.7 for M Series/Mr Slim)
- Choice of operation mode: 'silent mode' for noise sensitive areas or 'demand control' for maximum efficiency
- Unique fan capability provides 30 Pascals of static pressure as standard, allowing extra sound attenuation or the ability to duct discharge air away from the unit
- Available in both single and three phase options



OUTDOOR UNITS	PUMY-SP112VKM2	PUMY-SP112YKM2 ^③	PUMY-SP125VKM2	PUMY-SP125YKM2 ^③	PUMY-SP140VKM2	PUMY-SP140YKM2 ^③
CAPACITY (kW)	Heating (nominal max) 14.0 Cooling (nominal) 12.5 Heating (UK) 14.0 Cooling (UK) 9.8	14.0 12.5 14.0 9.8	16.0 14.0 16.0 11.0	16.0 14.0 16.0 11.0	16.5 15.5 16.5 12.2	16.5 15.5 16.5 12.2
POWER INPUT (kW)	Heating (nominal max) 3.66 Cooling (nominal) 4.46 Heating (UK) 4.69 Cooling (UK) 2.08	3.66 4.46 4.69 2.08	4.31 5.11 5.52 2.38	4.31 5.11 5.52 2.38	4.36 5.34 5.58 2.49	4.36 5.34 5.58 2.49
COP / EER (nominal max)	3.83 / 2.80	3.83 / 2.80	3.71 / 2.74	3.71 / 2.74	3.78 / 2.90	3.78 / 2.90
MAX NO. OF CONNECTABLE INDOOR UNITS	9	9	10	10	12	12
MAX CONNECTABLE CAPACITY	50-130% OU Capacity	50-130% OU Capacity	50-130% OU Capacity	50-130% OU Capacity	50-130% OU Capacity	50-130% OU Capacity
AIRFLOW (m³/min)	77	77	83	83	83	83
PIPE SIZE MM (in)	Gas 15.88 (5/8") Liquid 9.52 (3/8")	15.88 (5/8") 9.52 (3/8")	15.88 (5/8") 9.52 (3/8")	15.88 (5/8") 9.52 (3/8")	15.88 (5/8") 9.52 (3/8")	15.88 (5/8") 9.52 (3/8")
SOUND PRESSURE LEVEL (dBA)	52	52	53	53	54	54
SOUND POWER LEVEL (dBA)	72	72	73	73	74	74
WEIGHT (kg)	93	94	93	94	93	94
DIMENSIONS (mm)	Width 1050 Depth 330+40 Height 981	1050 330+40 981	1050 330+40 981	1050 330+40 981	1050 330+40 981	1050 330+40 981
ELECTRICAL SUPPLY	220-240v, 50Hz	380-415v, 50Hz	220-240v, 50Hz	380-415v, 50Hz	220-240v, 50Hz	380-415v, 50Hz
PHASE	Single	Three	Single	Three	Single	Three
STARTING CURRENT (A)	14	7	14	7	14	7
NOMINAL SYSTEM RUNNING CURRENT (A) Heating / Cooling [MAX]	16.24 / 19.79 [30.5]	5.57 / 6.78 [13.0]	19.13 / 22.68 [30.5]	6.55 / 7.77 [13.0]	19.35 / 23.70 [30.5]	6.63 / 8.12 [13.0]
GUARANTEED OPERATING RANGE (°C) Heating / Cooling	-20~15 / -5~52	-20~15 / -5~52	-20~15 / -5~52	-20~15 / -5~52	-20~15 / -5~52	-20~15 / -5~52
FUSE RATING (BS88) - HRC (A)	1 x 32	1 x 16	1 x 32	1 x 16	1 x 32	1 x 16
MAINS CABLE NO. CORES	3	4 + earth	3	4 + earth	3	4 + earth
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	3.5 / 7.31	3.5 / 7.31	3.5 / 7.31	3.5 / 7.31	3.5 / 7.31	3.5 / 7.31
R410A (GWP 2088)						
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	9.0 / 18.79	9.0 / 18.79	9.0 / 18.79	9.0 / 18.79	9.0 / 18.79	9.0 / 18.79
R410A (GWP 2088)						

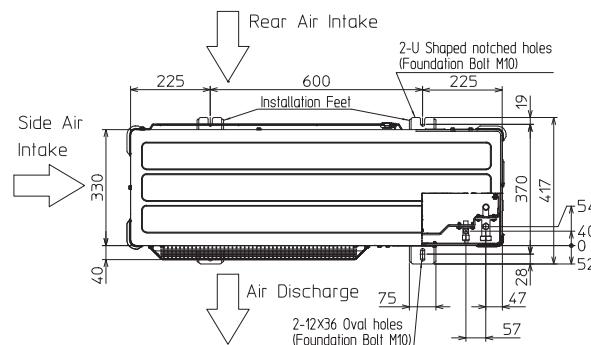
^③ Three Phase Note: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.

Nominal Conditions: Cooling; indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB. Nominal Max Conditions: Heating; indoor 20°C DB; outdoor 7°C DB, 6°C WB.

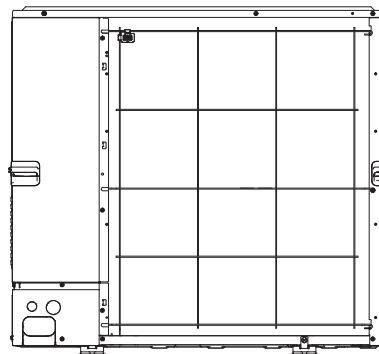
UK Conditions: Cooling; indoor 21°C DB, 15°C WB; outdoor 27°C DB. UK Conditions: Heating; indoor 20°C DB, outdoor 0°C DB, -1°C WB.

PIPING RESTRICTIONS	PUMY-SP112-140VKM2/YKM2
TOTAL PIPING LENGTH	120m max
FURTHEST PIPING LENGTH	70m max
FURTHEST PIPING LENGTH AFTER 1st BRANCH	50m max
BETWEEN INDOOR AND OUTDOOR UNITS - HEIGHT	50m max (30m max if outdoor installed below)
BETWEEN INDOOR AND INDOOR UNITS - HEIGHT	15m max

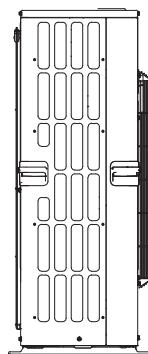
Upper View



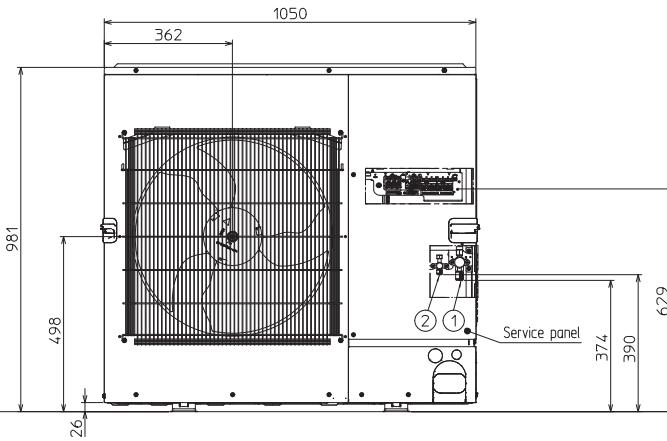
Rear View



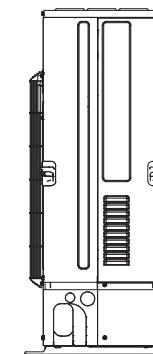
Left Side View



Front View

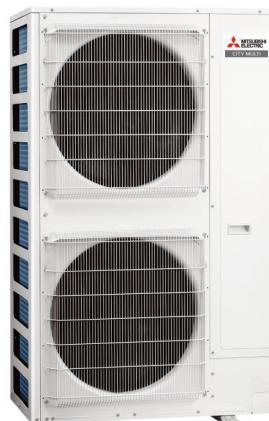


Right Side View



Y Series Twin Fan (12.5-33.5kW)

Mini VRF Heat Pump Outdoor Unit



VRF technology and efficiency can now be delivered in both small and large capacities, offering a cost-effective solution to connect up to 30 indoor units to one small, powerful, mini VRF unit. Delivering VRF efficiency, quality and functionality, with the additional flexibility of being free-standing or wall-hung, the **PUMY-P** side-blown unit makes the most of even the smallest plant spaces, making it ideal for high specification residential and retail applications in city centres.

Key Features & Benefits

- Small footprint, long pipe-runs and wall-hanging capability provides flexibility of install
- Broad compatibility across M Series, Mr Slim* and City Multi indoor units, providing design choice (see page 1.4.7 for M Series/Mr Slim)
- Choice of operation mode: 'silent mode' for noise sensitive areas or 'demand control' for maximum efficiency
- Unique fan capability provides 30 Pascals of static pressure as standard, allowing extra sound attenuation or the ability to duct discharge air away from the unit
- Available in both single and three phase options

*Mr Slim units available for use with PUMY-P112-200 units only.



OUTDOOR UNITS	PUMY-P112VKM6	PUMY-P112YKM5 ^③	PUMY-P125VKM6	PUMY-P125YKM5 ^③	PUMY-P140VKM6	PUMY-P140YKM5 ^③	PUMY-P200YKM3 ^③	PUMY-P250YBM2 ^③	PUMY-P300YBM2 ^③
CAPACITY (kW)	Heating (nominal max) 14.0	14.0	16.0	16.0	18.0	18.0	25.0	31.5	37.5
	Cooling (nominal) 12.5	12.5	14.0	14.0	15.5	15.5	22.4	28.0	33.5
	Heating (UK) 14.0	14.0	16.0	16.0	18.0	18.0	25.0	31.5	37.5
	Cooling (UK) 9.8	9.8	11.0	11.0	12.2	12.2	17.6	22.1	26.4
POWER INPUT (kW)	Heating (nominal max) 3.49	3.49	4.06	4.06	4.63	4.63	5.85	7.91	9.69
	Cooling (nominal) 4.34	4.34	5.00	5.00	5.17	5.17	7.18	8.21	11.96
	Heating (UK) 4.48	4.48	5.22	5.22	5.95	5.95	7.52	9.81	12.02
	Cooling (UK) 2.08	2.08	2.39	2.39	2.47	2.47	3.43	4.56	6.65
COP / EER (nominal max)	4.01 / 2.88	4.01 / 2.88	3.94 / 2.80	3.94 / 2.80	3.89 / 3.00	3.89 / 3.00	4.27 / 3.12	3.98 / 3.41	3.87 / 2.80
MAX NO. OF CONNECTABLE INDOOR UNITS	9	9	10	10	12	12	12	30	30
MAX CONNECTABLE CAPACITY	50-130% OU Capacity 110	50-130% OU Capacity 110	50-130% OU Capacity 110	50-130% OU Capacity 110	50-130% OU Capacity 110	50-130% OU Capacity 110	50-130% OU Capacity 141	183	183
AIRFLOW (m³/min)	Gas 15.88 (5/8") 9.52 (3/8")	Liquid 15.88 (5/8") 9.52 (3/8")	Gas 15.88 (5/8") 9.52 (3/8")	Liquid 15.88 (5/8") 9.52 (3/8")	Gas 15.88 (5/8") 9.52 (3/8")	Liquid 15.88 (5/8") 9.52 (3/8")	Gas 19.05 (3/4") 9.52 (3/8")* ¹	Liquid 22.4 (7/8") 9.52 (3/8") ¹	Gas 25.4 (1") 9.52 (3/8") ¹
PIPE SIZE MM (in)	49	49	50	50	51	51	57	55	57
SOUND PRESSURE LEVEL (dBA)	69	69	70	70	71	71	76	73	75
SOUND POWER LEVEL (dBA)	123	125	123	125	123	125	141	192	192
WEIGHT (kg)	1050	1050	1050	1050	1050	1050	1050	1050	1050
DIMENSIONS (mm)	Width 330+40	Depth 330+40	Height 1338	Width 330+40	Depth 330+40	Height 1338	Width 330+40	Depth 330+40	Height 1338
ELECTRICAL SUPPLY	220-240v, 50Hz	380-415v, 50Hz	220-240v, 50Hz	380-415v, 50Hz	220-240v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE	Single	Three	Single	Three	Single	Three	Three	Three	Three
STARTING CURRENT (A)	14	7	14	7	14	7	7	7	7
NOMINAL SYSTEM RUNNING CURRENT (A) Heating / Cooling [MAX]	15.41 / 19.16 [29.5]	5.93 / 7.37 [13.0]	17.93 / 22.08 [29.5]	6.52 / 8.02 [13.0]	20.44 / 22.83 [29.5]	7.04 / 7.86 [13.0]	9.08 / 11.15 [19.0]	12.28 / 12.74 [28.4]	15.04 / 18.56 [31.74]
GUARANTEED OPERATING RANGE (°C) Heating / Cooling	-20~15 / -5~46	-20~15 / -5~46	-20~15 / -5~46	-20~15 / -5~46	-20~15 / -5~46	-20~15 / -5~46	-20~15 / -5~46	-20~15 / -5~46	-20~15 / -5~46
FUSE RATING (BS88 - HRC (A))	1 x 32	1 x 16	1 x 32	1 x 16	1 x 32	1 x 16	1 x 20	1 x 32	1 x 32
MAINS CABLE NO. CORES	3	4 + earth	3	4 + earth	3	4 + earth	4 + earth	4 + earth	4 + earth
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088)	4.8 / 10.0	4.8 / 10.0	4.8 / 10.0	4.8 / 10.0	4.8 / 10.0	7.3 / 15.2	9.3 / 19.4	9.3 / 19.4
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088)	13.7 / 28.6	13.7 / 28.6	13.7 / 28.6	13.7 / 28.6	13.7 / 28.6	13.5 / 28.2	22.4 / 46.8	22.4 / 46.8

^③ Three Phase Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.

Nominal Conditions: Cooling; indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB. Nominal Max Conditions: Heating; indoor 20°C DB; outdoor 7°C DB, 6°C WB.

UK Conditions: Cooling; indoor 21°C DB, 15°C WB; outdoor 27°C DB. UK Conditions: Heating; indoor 20°C DB, outdoor 0°C DB, -1°C WB.

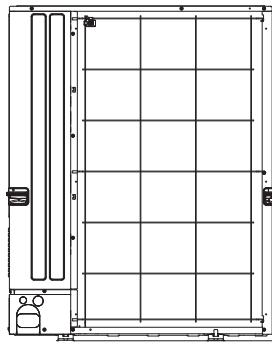
*1 12.7mm (1/2") if furthest length ≥ 60m.

PIPING RESTRICTIONS	PUMY-P112-140VKM6/YKM5	PUMY-P200YKM3	PUMY-P250-300YBM2
TOTAL PIPING LENGTH	300m max	150m max	310m max
FURTHEST PIPING LENGTH	150m max	80m max	150m max
FURTHEST PIPING LENGTH AFTER 1st BRANCH	30m max	30m max	30m max
BETWEEN INDOOR AND OUTDOOR UNITS - HEIGHT	50m max (40m max if outdoor installed below)	50m max (40m max if outdoor installed below)	50m max (40m max if outdoor installed below)
BETWEEN INDOOR AND INDOOR UNITS - HEIGHT	15m max	15m max	15m max

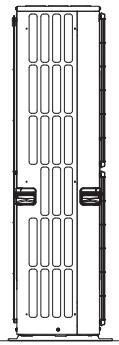
Product Dimensions

PUMY-P112/125/140/200VKM6/YKM(5)(3)

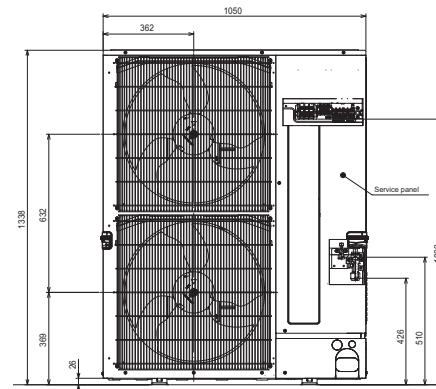
Rear View



Left Side View



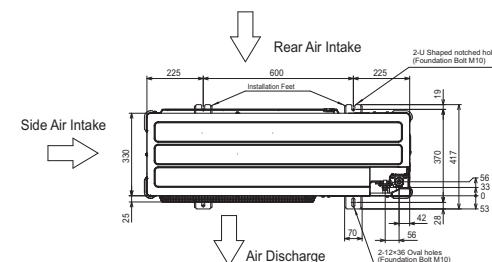
Front View



Right Side View



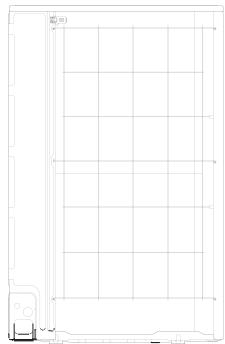
Upper View



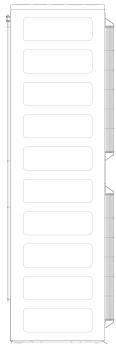
Product Dimensions

PUMY-P250/300YBM2

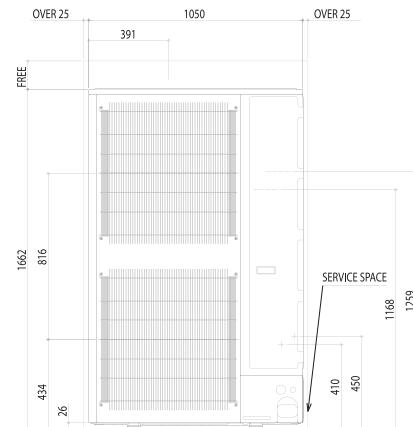
Rear View



Left Side View



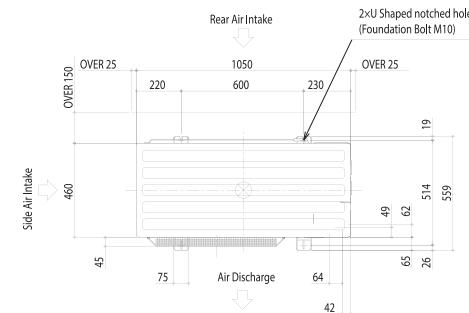
Front View



Right Side View



Upper View



WR2 Series (22.4-56kW)

Simultaneous Heating and Cooling with Double Heat Recovery, Water Cooled Condensing Unit



The City Multi WR2 Series Heat Recovery VRF system is ideal where a water loop is available and outdoor space is limited. These models utilise water, instead of air, as the energy transfer medium, and benefit from all of the same technology and flexibility as air sourced VRF systems. City Multi WR2 systems provide the ultimate solution for a breadth of applications requiring simultaneous heating and cooling, including hotels, offices, leisure, retail and high end residential.

Key Features & Benefits

- High efficiency modular systems, with ability to recover energy on the refrigerant circuit and between units on the water circuit, in either a closed or open loop building, or ground source application
- Able to utilise waste heat from commercial sources, such as server cooling, or renewable heat from landlord loops, rivers, lakes or geothermal sources
- Very low impact footprint and service space requirements, ideal for internal location
- Provides continuous heating in winter, without the need for defrost operation



CONDENSING UNITS	PQRY-P200YLM-A1	PQRY-P250YLM-A1	PQRY-P300YLM-A1	PQRY-P350YLM-A1	PQRY-P400YLM-A1	PQRY-P400YSLM-A1	PQRY-P450YLM-A1	PQRY-P450YSLM-A1	PQRY-P500YLM-A1	PQRY-P500YSLM-A1
CAPACITY (kW)	Heating (nominal max) 25.0 Cooling (nominal) 22.4	31.5 28.0	37.5 33.5	45.0 40.0	50.0 45.0	50.0 45.0	56.0 50.0	56.0 50.0	63.0 56.0	63.0 56.0
POWER INPUT (kW)	Heating (nominal max) 3.97 Cooling (nominal) 3.71	5.08 4.90	6.25 6.04	7.53 7.14	8.37 8.03	7.94 7.70	9.79 9.29	6.24 5.69	11.43 11.17	10.16 10.12
OPERATING WATER VOLUME (m³/h)	3.0 ~ 7.2 3.0 ~ 7.2	3.0 ~ 7.2 3.0 ~ 7.2	3.0 ~ 7.2 3.0 ~ 7.2	4.5 ~ 11.6 4.5 ~ 11.6	4.5 ~ 11.6 4.5 ~ 11.6	3.0+3.0~7.2+7.2 3.0+3.0~7.2+7.2	4.5 ~ 11.6 4.5 ~ 11.6	3.0+3.0~7.2+7.2 3.0+3.0~7.2+7.2	4.5 ~ 11.6 4.5 ~ 11.6	3.0+3.0~7.2+7.2 3.0+3.0~7.2+7.2
GUARANTEED OPERATING RANGE (°C) Heating / Cooling	-5~45 / -5~45 -5~45 / -5~45	-5~45 / -5~45 -5~45 / -5~45	-5~45 / -5~45 -5~45 / -5~45	-5~45 / -5~45 -5~45 / -5~45	-5~45 / -5~45 -5~45 / -5~45	-5~45 / -5~45 -5~45 / -5~45	-5~45 / -5~45 -5~45 / -5~45	-5~45 / -5~45 -5~45 / -5~45	-5~45 / -5~45 -5~45 / -5~45	-5~45 / -5~45 -5~45 / -5~45
COP / EER (nominal max)	6.29 / 6.03 6.20 / 5.71	6.25 / 5.54 6.25 / 5.54	5.97 / 5.60 5.97 / 5.60	5.97 / 5.60 5.97 / 5.60	5.97 / 5.60 5.97 / 5.60	6.29 / 5.84 5.72 / 5.38	5.72 / 5.38 6.24 / 5.69	6.24 / 5.69 5.51 / 5.01	5.51 / 5.01 6.20 / 5.53	5.51 / 5.01 6.20 / 5.53
MAX NO. OF CONNECTABLE INDOOR UNITS	20	25	30	35	40	40	45	45	50	50
MAX CONNECTABLE CAPACITY	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%
PIPE SIZE mm (in)	Gas 19.05 (3/4") Liquid 15.88 (5/8")	22.2 (7/8") 19.05 (3/4")	22.2 (7/8") 19.05 (3/4")	28.58 (1 1/8") 22.2 (7/8")	28.58 (1 1/8") 22.2 (7/8")	28.58 (1 1/8") 22.2 (7/8")	28.58 (1 1/8") 22.2 (7/8")	28.58 (1 1/8") 22.2 (7/8")	28.58 (1 1/8") 22.2 (7/8")	28.58 (1 1/8") 22.2 (7/8")
SOUND PRESSURE LEVEL (dBA)	46 48	54	52	52	49	54	50	54	51	51
SOUND POWER LEVEL (dBA)	60 62	68	66	66	63	70	64	70.5	65	65
WEIGHT (kg)	173 173	173	173	217	217	173 + 173	217	173 + 173	217	173 + 173
DIMENSIONS (mm)	Width 880 550 1100	880 550 1100	880 550 1100	880 550 1450	880 550 1100	880 + 880 550 1450	880 + 880 550 1100	880 + 880 550 1450	880 + 880 550 1100	880 + 880 550 1450
ELECTRICAL SUPPLY*1	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE*1	Three	Three	Three	Three	Three	Three	Three	Three	Three	Three
STARTING CURRENT (A)	8 8	8 8	8 8	8 8	8 8	8 / 8 8 / 8	8 8	8 / 8 8 / 8	8 8	8 / 8
NOMINAL SYSTEM RUNNING CURRENT (A)*1 Heating / Cooling [MAX]	6.3 / 5.9 [16.1] 8.1 / 7.8 [16.1]	10.0 / 9.6 [18.6] 12.0 / 11.4 [23.1]	13.4 / 12.8 [27.6] 12.7 / 12.3 [16.1+16.1]	15.7 / 14.8 [32.9] 14.3 / 14.0 [16.1+16.1]	18.3 / 17.9 [39.2] 16.2 / 16.2 [16.1+16.1]					
FUSE RATING (BS88) - HRC (A)*1	1 x 20	1 x 20	1 x 20	1 x 25	1 x 32	1 x 20 / 1 x 20	1 x 40	1 x 20 / 1 x 20	1 x 40	1 x 20 / 1 x 20
MAINS CABLE No. Cores*1	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	5.0 / 10.4 R410A (GWP 2088)	5.0 / 10.4 R410A (GWP 2088)	5.0 / 10.4 R410A (GWP 2088)	6.0 / 12.5 R410A (GWP 2088)	6.0 / 12.5 R410A (GWP 2088)	10.0 / 20.9 R410A (GWP 2088)	6.0 / 12.5 R410A (GWP 2088)	10.0 / 20.9 R410A (GWP 2088)	6.0 / 12.5 R410A (GWP 2088)	10.0 / 20.9 R410A (GWP 2088)
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	28.0 / 58.5 R410A (GWP 2088)	30.0 / 62.6 R410A (GWP 2088)	31.0 / 64.7 R410A (GWP 2088)	46.0 / 96.1 R410A (GWP 2088)	47.0 / 98.1 R410A (GWP 2088)	50.0 / 104.4 R410A (GWP 2088)	47.0 / 98.1 R410A (GWP 2088)	51.0 / 106.4 R410A (GWP 2088)	48.0 / 100.2 R410A (GWP 2088)	51.0 / 106.5 R410A (GWP 2088)

Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard. *1 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules. These products are made to order, please consult your local sales office for delivery schedule. PQRY-P200/250/300 are stock items.

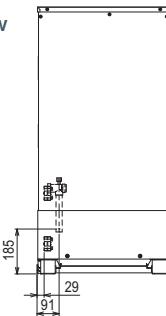
PIPING RESTRICTIONS	PQRY-P200-500Y(S)LM-A1
TOTAL PIPING LENGTH	550mm max*3 (300m) for sizes 200-300 / 750mm max*3 (500m) for sizes 350-500
FURTHEST PIPING LENGTH	165mm max
BETWEEN CONDENSING UNIT AND BC CONTROLLER (MAIN) - LENGTH	110mm max*4
BETWEEN INDOOR AND BC CONTROLLER (MAIN/SUB) - LENGTH	60mm max*5 (40m)
BETWEEN INDOOR AND CONDENSING UNIT - HEIGHT	50mm max (40m*1)
BETWEEN INDOOR AND INDOOR - HEIGHT	30mm max (20m*2)
BETWEEN INDOOR AND BC CONTROLLER (MAIN/SUB) - HEIGHT	15mm max (10m*2)
BETWEEN BC CONTROLLER (MAIN) AND BC CONTROLLER (SUB) - HEIGHT	15mm max (10m*6)

Notes: *1 When condensing unit is below indoor. *2 In case of P200, P250 indoor unit. *3 Distance between condensing unit and BC Controller is 10m or less. *4 Total piping length is 300m or less (500m for sizes 350-500). *5 Height difference between the Main BC Controller and furthest indoor unit is 0m and no size P200 or P250 indoor unit is used. *6 When using multiple sub BC Controllers, the height between them should be considered.

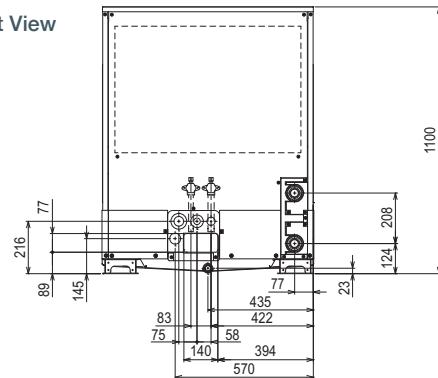
Product Dimensions

PQRY-P200/250/300YLM-A1

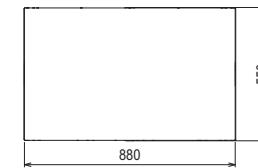
Side View



Front View



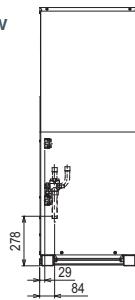
Upper View



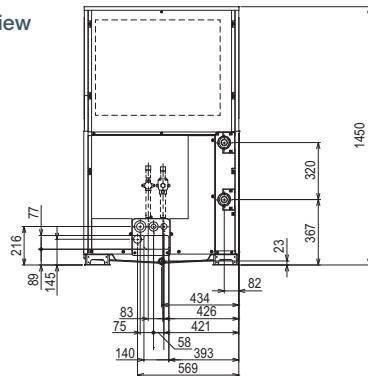
Product Dimensions

PQRY-P350/400/450/500YLM-A1

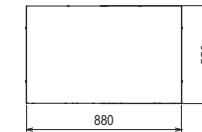
Side View



Front View



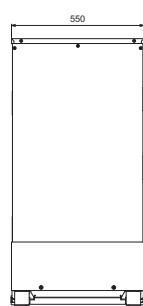
Upper View



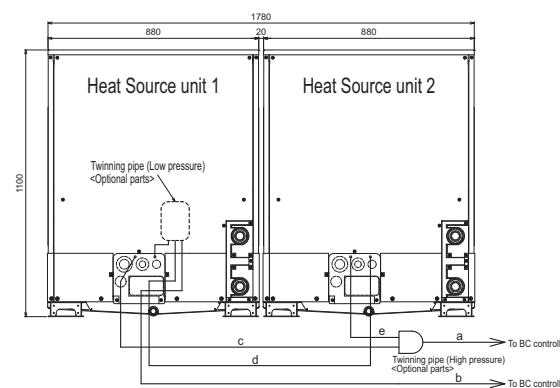
Product Dimensions

PQRY-P400/450/500YSLM-A1

Side View



Front View



WR2 Series (63-101kW)

Simultaneous Heating and Cooling with Double Heat Recovery, Water Cooled Condensing Unit



The City Multi WR2 Series Heat Recovery VRF system is ideal where a water loop is available and outdoor space is limited. These models utilise water, instead of air, as the energy transfer medium, and benefit from all of the same technology and flexibility as air sourced VRF systems. City Multi WR2 systems provide the ultimate solution for a breadth of applications requiring simultaneous heating and cooling, including hotels, offices, leisure, retail and high end residential.

Key Features & Benefits

- High efficiency modular systems, with ability to recover energy on the refrigerant circuit and between units on the water circuit, in either a closed or open loop building, or ground source application
- Able to utilise waste heat from commercial sources, such as server cooling, or renewable heat from landlord loops, rivers, lakes or geothermal sources
- Very low impact footprint and service space requirements, ideal for internal location
- Provides continuous heating in winter, without the need for defrost operation



CONDENSING UNITS	PQRY-P550YLM-A1	PQRY-P550YSLM-A1	PQRY-P600YLM-A1	PQRY-P600YSLM-A1	PQRY-P700YSLM-A1	PQRY-P750YSLM-A1	PQRY-P800YSLM-A1	PQRY-P850YSLM-A1	PQRY-P900YSLM-A1
CAPACITY (kW)	Heating (nominal max)	69.0	69.0	76.5	76.5	88.0	95.0	100.0	108.0
	Cooling (nominal)	63.0	63.0	69.0	69.0	80.0	85.0	90.0	96.0
POWER INPUT (kW)	Heating (nominal max)	12.27	11.31	14.51	12.75	14.73	15.90	16.75	18.49
	Cooling (nominal)	12.54	11.55	14.49	12.84	14.73	15.64	16.57	18.03
OPERATING WATER VOLUME (m³/h)	6.0 ~ 14.4	3.0 + 3.0 ~ 7.2 + 7.2	6.0 ~ 14.4	3.0 + 3.0 ~ 7.2 + 7.2	4.5 + 4.5 ~ 11.6 + 11.6	4.5 + 4.5 ~ 11.6 + 11.6	4.5 + 4.5 ~ 11.6 + 11.6	4.5 + 4.5 ~ 11.6 + 11.6	4.5 + 4.5 ~ 11.6 + 11.6
GUARANTEED OPERATING RANGE (°C) Heating / Cooling	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45
COP / EER (nominal max)	5.62 / 5.02	6.10 / 5.45	5.27 / 4.76	6.00 / 5.37	5.97 / 5.43	5.97 / 5.43	5.97 / 5.43	5.84 / 5.32	5.72 / 5.21
MAX NO. OF CONNECTABLE INDOOR UNITS	50	50	50	50	50	50	50	50	50
MAX CONNECTABLE CAPACITY	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%
PIPE SIZE mm (in)	Gas 28.58 (1 1/8") Liquid 22.2 (7/8")**	Gas 28.58 (1 1/8") Liquid 22.2 (7/8")**	Gas 34.93 (1 3/8") Liquid 22.2 (7/8")**	Gas 34.93 (1 3/8") Liquid 22.2 (7/8")**	Gas 34.93 (1 3/8") Liquid 28.58 (1 1/8")	Gas 34.93 (1 3/8") Liquid 28.58 (1 1/8")	Gas 34.93 (1 3/8") Liquid 28.58 (1 1/8")	Gas 41.28 (1 5/8") Liquid 28.58 (1 1/8")	Gas 41.28 (1 5/8") Liquid 28.58 (1 1/8")
SOUND PRESSURE LEVEL (dBA)	56.5	55	56.5	57	55	55	55	56	57
SOUND POWER LEVEL (dBA)	71.5	69	73	71	69	69	69	71.5	73
WEIGHT (kg)	247	173 + 173	247	173 + 173	217 + 217	217 + 217	217 + 217	217 + 217	217 + 217
DIMENSIONS (mm)	Width 880	880 + 880	880	880 + 880	880 + 880	880 + 880	880 + 880	880 + 880	880 + 880
	Depth 550	550	550	550	550	550	550	550	550
	Height 1450	1100	1450	1100	1450	1450	1450	1450	1450
ELECTRICAL SUPPLY ¹	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz				
PHASE ¹	Three	Three	Three	Three	Three	Three	Three	Three	Three
STARTING CURRENT (A)	8	8 / 8	8	8 / 8	8 / 8	8 / 8	8 / 8	8 / 8	8 / 8
NOMINAL SYSTEM RUNNING CURRENT (A) ¹ Heating / Cooling [MAX]	19.6 / 20.1 [40.5]	18.1 / 18.5 [18.6+16.1]	23.2 / 23.2 [40.5]	20.4 / 20.5 [18.6+18.6]	23.6 / 23.6 [23.1+23.1]	25.4 / 25.0 [27.6+23.1]	26.8 / 26.5 [27.6+27.6]	29.6 / 28.9 [32.9+27.6]	31.6 / 31.0 [32.9+32.9]
FUSE RATING (BS88) - HRC (A) ¹	1 x 50	1 x 20 / 1 x 20	1 x 50	1 x 20 / 1 x 20	1 x 25 / 1 x 25	1 x 32 / 1 x 25	1 x 32 / 1 x 32	1 x 40 / 1 x 32	1 x 40 / 1 x 40
MAINS CABLE NO. Cores ¹	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth				
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088)	11.7 / 24.4	10.0 / 20.9	11.7 / 24.4	10.0 / 20.9	12.0 / 25.1	12.0 / 25.1	12.0 / 25.1	12.0 / 25.1
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088)	43.3 / 90.4	52.0 / 108.6	44.3 / 92.5	54.0 / 112.8	70.0 / 146.2	70.0 / 146.2	71.0 / 148.2	73.0 / 152.4

Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard. *1 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules. These products are made to order, please consult your local sales office for delivery schedule.

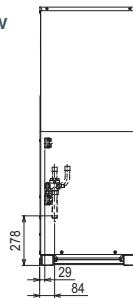
PIPING RESTRICTIONS	PQRY-P550-900Y(S)LM-A1
TOTAL PIPING LENGTH	750m max ² (500m)
FURTHEST PIPING LENGTH	165m max
BETWEEN CONDENSING UNIT AND BC CONTROLLER (MAIN) - LENGTH	110m max ³
BETWEEN INDOOR AND BC CONTROLLER (MAIN/SUB) - LENGTH	60m max ⁴ (40m)
BETWEEN INDOOR AND CONDENSING UNIT - HEIGHT	50m max (40m ⁵)
BETWEEN INDOOR AND INDOOR - HEIGHT	30m max
BETWEEN INDOOR AND BC CONTROLLER (MAIN/SUB) - HEIGHT	15m max
BETWEEN BC CONTROLLER (MAIN) AND BC CONTROLLER (SUB) - HEIGHT	15m max (10m ⁶)

Notes: *1 When condensing unit is below indoor. *2 In case of P200, P250 indoor unit. *3 Distance between condensing unit and BC Controller is 10m or less. *4 Total piping length is 300m or less (500m for sizes 350-500). *5 Height difference between the Main BC Controller and furthest indoor unit is 0m and no size P200 or P250 indoor unit is used. *6 When using multiple sub BC Controllers, the height between them should be considered.

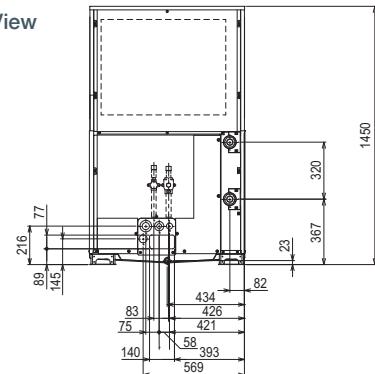
Product Dimensions

PQRY-P550/600YLM-A1

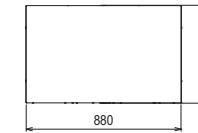
Side View



Front View



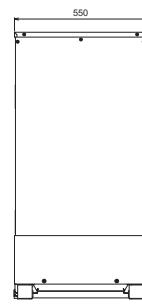
Upper View



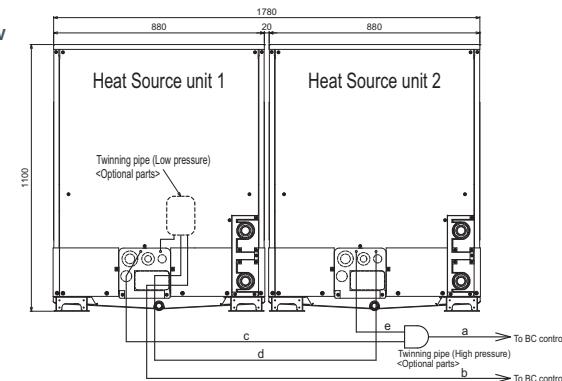
Product Dimensions

PQRY-P550/600YSLM-A1

Side View



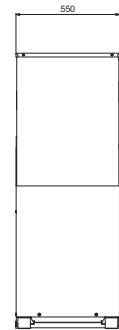
Front View



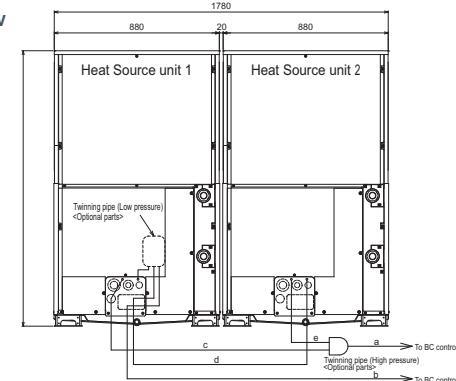
Product Dimensions

PQRY-P700/750/800/850/900YSLM-A1

Side View



Front View



WY Series (22.4-56kW)

Heat Pump, Water Cooled Condensing Unit



The City Multi **WY** Series Heat Pump VRF system is ideal where a water loop is available and outdoor space is limited. These models utilise water, instead of air, as the energy transfer medium, and benefit from all of the same technology and flexibility as air sourced VRF systems. City Multi WY systems provide the ultimate solution for a breadth of applications requiring heating or cooling at a given time, such as open-plan spaces in offices, call centres and leisure facilities.

Key Features & Benefits

- High efficiency modular systems, with ability to recover energy between units on the water circuit, in either a closed or open loop building, or ground source application
- Benefits from a wide indoor unit range and advanced control options
- Very low impact footprint and service space requirements, ideal for internal location
- Provides continuous heating in winter, without the need for defrost operation



CONDENSING UNITS	PQHY-P200YLM-A1	PQHY-P250YLM-A1	PQHY-P300YLM-A1	PQHY-P350YLM-A1	PQHY-P400YLM-A1	PQHY-P400YSLM-A1	PQHY-P450YLM-A1	PQHY-P450YSLM-A1	PQHY-P500YLM-A1	PQHY-P500YSLM-A1
CAPACITY (kW)	Heating (nominal max)	25.0	31.5	37.5	45.0	50.0	50.0	56.0	56.0	63.0
	Cooling (nominal)	22.4	28.0	33.5	40.0	45.0	45.0	50.0	50.0	56.0
POWER INPUT (kW)	Heating (nominal max)	3.97	5.08	6.25	7.53	8.37	7.94	9.79	6.24	11.43
	Cooling (nominal)	3.71	4.90	6.04	7.14	8.03	7.70	9.29	5.69	11.17
OPERATING WATER VOLUME (m³/h)	3.0 ~ 7.2	3.0 ~ 7.2	3.0 ~ 7.2	4.5 ~ 11.6	4.5 ~ 11.6	3.0 + 3.0 ~ 7.2 + 7.2	4.5 ~ 11.6	3.0 + 3.0 ~ 7.2 + 7.2	4.5 ~ 11.6	3.0 + 3.0 ~ 7.2 + 7.2
GUARANTEED OPERATING RANGE (°C) Heating / Cooling	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45
COP / EER (nominal max)	6.29 / 6.03	6.20 / 5.71	6.25 / 5.54	5.97 / 5.60	5.97 / 5.60	6.29 / 5.84	5.72 / 5.38	6.24 / 5.69	5.51 / 5.01	6.20 / 5.53
MAX NO. OF CONNECTABLE INDOOR UNITS	17	21	26	30	34	36	39	39	43	43
MAX CONNECTABLE CAPACITY	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%
PIPE SIZE mm (in)	Gas 19.05 (3/4") 9.52 (3/8")**	Liquid 22.2 (7/8") 9.52 (3/8")**	22.2 (7/8") 9.52 (3/8")**	28.58 (1 1/8") 12.7 (1/2")	28.58 (1 1/8") 15.88 (5/8")					
SOUND PRESSURE LEVEL (dBA)	46	48	54	52	52	49	54	50	54	51
SOUND POWER LEVEL (dBA)	60	62	68	66	66	63	70	64	70.5	65
WEIGHT (kg)	170	170	170	214	214	170 + 170	214	170 + 170	214	170 + 170
DIMENSIONS (mm)	Width 880	Width 880	Width 880	Width 880	Width 880	Width 880 + 880	Width 880	Width 880 + 880	Width 880	Width 880 + 880
	Depth 550	Depth 550	Depth 550	Depth 550	Depth 550	Depth 550	Depth 550	Depth 550	Depth 550	Depth 550
	Height 1100	Height 1100	Height 1100	Height 1450	Height 1450	Height 1100	Height 1450	Height 1100	Height 1450	Height 1100
ELECTRICAL SUPPLY* ²	380~415v, 50Hz	380~415v, 50Hz	380~415v, 50Hz	380~415v, 50Hz	380~415v, 50Hz	380~415v, 50Hz	380~415v, 50Hz	380~415v, 50Hz	380~415v, 50Hz	380~415v, 50Hz
PHASE* ²	Three	Three	Three	Three	Three	Three	Three	Three	Three	Three
STARTING CURRENT (A)	8	8	8	8	8	8 / 8	8	8 / 8	8	8 / 8
NOMINAL SYSTEM RUNNING CURRENT (A)* ² Heating / Cooling [MAX]	6.3 / 5.9 [16.1]	8.1 / 7.8 [16.1]	10.0 / 9.6 [18.6]	12.0 / 11.4 [23.1]	13.4 / 12.8 [27.6]	12.7 / 12.3 [16.1+16.1]	15.7 / 14.8 [32.9]	14.3 / 14.0 [16.1+16.1]	18.3 / 17.9 [39.2]	16.2 / 16.2 [16.1+16.1]
FUSE RATING (BS88) - HRC (A)* ²	1 x 20	1 x 20	1 x 20	1 x 25	1 x 32	1 x 20 / 1 x 20	1 x 40	1 x 20 / 1 x 20	1 x 40	1 x 20 / 1 x 20
MAINS CABLE No. Cores* ²	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	5.0 / 10.4	5.0 / 10.4	5.0 / 10.4	6.0 / 12.5	6.0 / 12.5	10.0 / 20.9	6.0 / 12.5	10.0 / 20.9	6.0 / 12.5	10.0 / 20.9
R410A (GWP 2088)	21.0 / 43.8	28.0 / 58.5	29.5 / 61.6	41.5 / 86.7	50.0 / 104.4	50.0 / 104.4	51.5 / 107.5	51.5 / 107.5	53.5 / 111.7	53.5 / 111.7
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)										

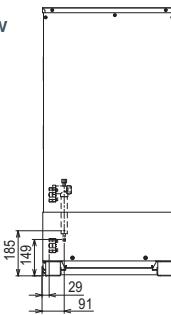
Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard. *1 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules. These products are made to order, please consult your local sales office for delivery schedule.

PIPING RESTRICTIONS	PQHY-P200-500Y(S)LM-A1
TOTAL PIPING LENGTH	300m max for sizes 200-300 / 500m for sizes 350-900
FURTHEST PIPING LENGTH	165m max
FURTHEST PIPING LENGTH AFTER 1ST BRANCH	40m max
BETWEEN INDOOR AND OUTDOOR UNITS - HEIGHT	50m max (40m max if outdoor installed below)
BETWEEN INDOOR AND INDOOR UNITS - HEIGHT	15m max

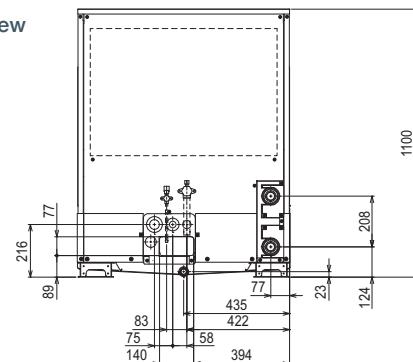
Product Dimensions

PQHY-P200/250/300YLM-A1

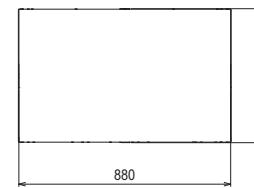
Side View



Front View



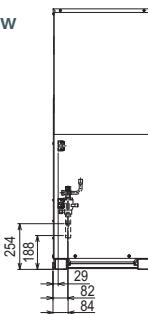
Upper View



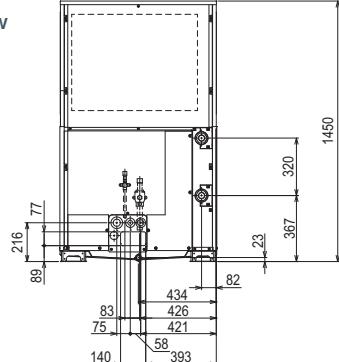
Product Dimensions

PQHY-P350/400/450/500YLM-A1

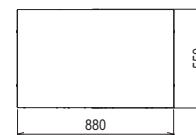
Side View



Front View



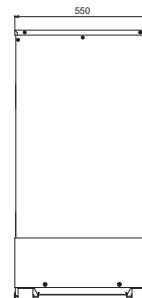
Upper View



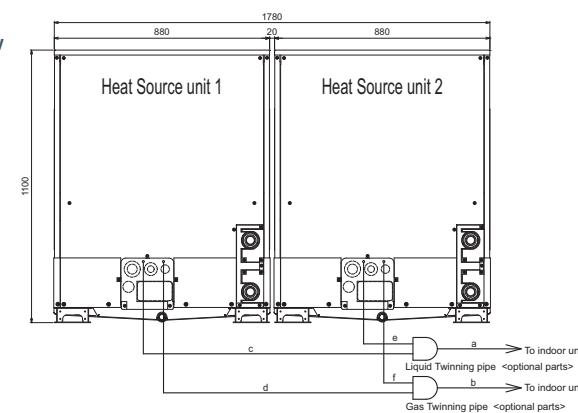
Product Dimensions

PQHY-P400/450/500YSLM-A1

Side View



Front View



WY Series (63-101kW)

Heat Pump, Water Cooled Condensing Unit



The City Multi **WY** Series Heat Pump VRF system is ideal where a water loop is available and outdoor space is limited. These models utilise water, instead of air, as the energy transfer medium, and benefit from all of the same technology and flexibility as air sourced VRF systems. City Multi WY systems provide the ultimate solution for a breadth of applications requiring heating or cooling at a given time, such as open-plan spaces in offices, call centres and leisure facilities.

Key Features & Benefits

- High efficiency modular systems, with ability to recover energy between units on the water circuit, in either a closed or open loop building, or ground source application
- Benefits from a wide indoor unit range and advanced control options
- Very low impact footprint and service space requirements, ideal for internal location
- Provides continuous heating in winter, without the need for defrost operation



CONDENSING UNITS	PQHY-P550YLM-A1	PQHY-P550YSLM-A1	PQHY-P600YLM-A1	PQHY-P600YSLM-A1	PQHY-P700YSLM-A1	PQHY-P750YSLM-A1	PQHY-P800YSLM-A1	PQHY-P850YSLM-A1	PQHY-P900YSLM-A1	
CAPACITY (kW)	Heating (nominal max)	69.0	69.0	76.5	76.5	88.0	95.0	100.0	108.0	113.0
	Cooling (nominal)	63.0	63.0	69.0	69.0	80.0	85.0	90.0	96.0	101.0
POWER INPUT (kW)	Heating (nominal max)	12.27	11.31	14.51	12.75	14.73	15.90	16.75	18.49	19.74
	Cooling (nominal)	12.54	11.55	14.49	12.84	14.73	15.64	16.57	18.03	19.38
OPERATING WATER VOLUME (m³/h)	6.0 ~ 14.4	3.0 + 3.0 ~ 7.2 + 7.2	6.0 ~ 14.4	3.0 + 3.0 ~ 7.2 + 7.2	4.5 + 4.5 ~ 11.6 + 11.6	4.5 + 4.5 ~ 11.6 + 11.6	4.5 + 4.5 ~ 11.6 + 11.6	4.5 + 4.5 ~ 11.6 + 11.6	4.5 + 4.5 ~ 11.6 + 11.6	4.5 + 4.5 ~ 11.6 + 11.6
GUARANTEED OPERATING RANGE (°C) Heating / Cooling	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45
COP / EER (nominal max)	5.62 / 5.02	6.10 / 5.45	5.27 / 4.76	6.00 / 5.37	5.97 / 5.43	5.97 / 5.43	5.97 / 5.43	5.84 / 5.32	5.72 / 5.21	
MAX NO. OF CONNECTABLE INDOOR UNITS	47	47	50	50	50	50	50	50	50	
MAX CONNECTABLE CAPACITY	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%
PIPE SIZE mm (in)	Gas 28.58 (1 1/8") Liquid 15.88 (5/8")	Gas 28.58 (1 1/8")	Gas 28.58 (1 1/8")	Gas 28.58 (1 1/8")	Gas 34.93 (1 3/8")	Gas 34.93 (1 3/8")	Gas 41.28 (1 5/8")	Gas 41.28 (1 5/8")	Gas 41.28 (1 5/8")	
SOUND PRESSURE LEVEL (dBA)	56.5	55	56.5	57	55	55	55	56	57	
SOUND POWER LEVEL (dBA)	71.5	69	73	71	69	69	69	71.5	73	
WEIGHT (kg)	243	170 + 170	243	170 + 170	214 + 214	214 + 214	214 + 214	214 + 214	214 + 214	
DIMENSIONS (mm)	Width 880	Width 880 + 880	Width 880	Width 880 + 880						
	Depth 550	Depth 550	Depth 550	Depth 550	Depth 550	Depth 550	Depth 550	Depth 550	Depth 550	
	Height 1450	Height 1100	Height 1450	Height 1100	Height 1450	Height 1450	Height 1450	Height 1450	Height 1450	
ELECTRICAL SUPPLY*1	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	
PHASE*1	Three	Three	Three	Three	Three	Three	Three	Three	Three	
STARTING CURRENT (A)	8	8 / 8	8	8 / 8	8 / 8	8 / 8	8 / 8	8 / 8	8 / 8	
NOMINAL SYSTEM RUNNING CURRENT (A)*1 Heating / Cooling [MAX]	19.6 / 20.1 [40.5]	18.1 / 18.5 [18.6 + 16.1]	23.2 / 23.2 [40.5]	20.4 / 20.5 [18.6 + 18.6]	23.6 / 23.6 [23.1 + 23.1]	25.4 / 25.0 [27.6 + 23.1]	26.8 / 26.5 [27.6 + 27.6]	29.6 / 28.9 [32.9 + 27.6]	31.6 / 31.0 [32.9 + 32.9]	
FUSE RATING (BS88) - HRC (A)*1	1 x 50	1 x 20 / 1 x 20	1 x 50	1 x 20 / 1 x 20	1 x 25 / 1 x 25	1 x 32 / 1 x 25	1 x 32 / 1 x 32	1 x 40 / 1 x 32	1 x 40 / 1 x 40	
MAINS CABLE No. Cores*1	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	11.7 / 24.4	10.0 / 20.9	11.7 / 24.4	10.0 / 20.9	12.0 / 25.1	12.0 / 25.1	12.0 / 25.1	12.0 / 25.1	12.0 / 25.1	
R410A (GWP 2088)	55.5 / 115.9	54.5 / 113.8	57.0 / 119.0	55.5 / 115.9	65.5 / 136.8	67.5 / 140.9	67.5 / 140.9	70.0 / 146.2	70.0 / 146.2	
MIX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)										
R410A (GWP 2088)										

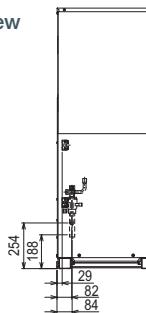
Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard. *1 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules. These products are made to order, please consult your local sales office for delivery schedule.

PIPING RESTRICTIONS	PQHY-P550-900Y(S)LM-A1
TOTAL PIPING LENGTH	500m max
FURTHEST PIPING LENGTH	165m max
FURTHEST PIPING LENGTH AFTER 1ST BRANCH	40m max
BETWEEN INDOOR AND OUTDOOR UNITS - HEIGHT	50m max (40m max if outdoor installed below)
BETWEEN INDOOR AND INDOOR UNITS - HEIGHT	15m max

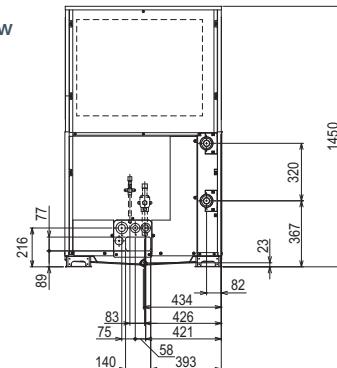
Product Dimensions

PQHY-P550/600YLM-A1

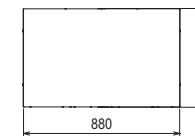
Side View



Front View



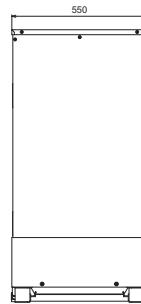
Upper View



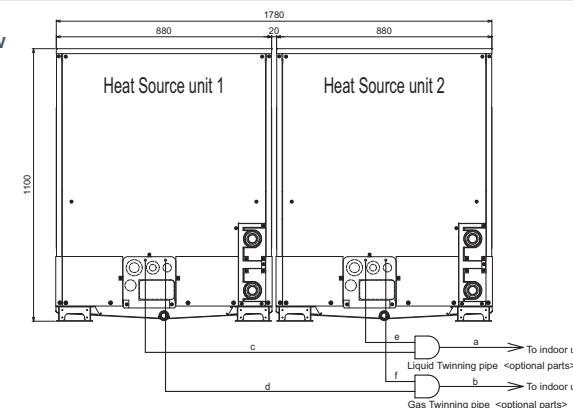
Product Dimensions

PQHY-P550/600YSLM-A1

Side View



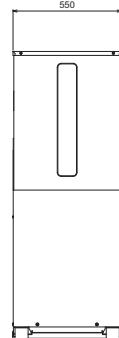
Front View



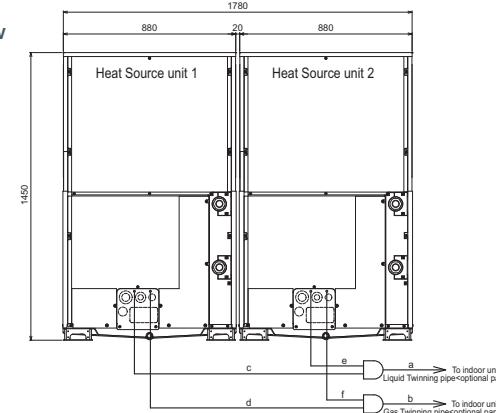
Product Dimensions

PQHY-P700/750/800/850/900YSLM-A1

Side View



Front View



PEFY-P-VMS1-E

Ultra Thin Ceiling Concealed Ducted Indoor Unit



The **PEFY-P-VMS1-E** ceiling concealed ducted indoor unit has been designed with an ultra thin, slimline body, specifically for applications where ceiling void space is limited. With an extremely quiet operation, these units are ideal for applications such as hotel rooms.

Key Features & Benefits

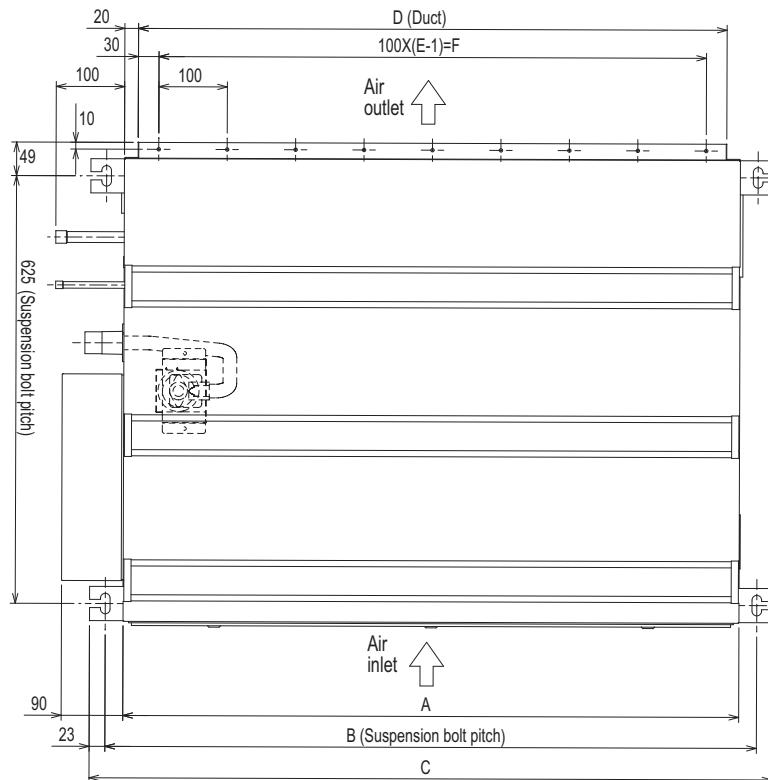
- Ultra thin body allowing installation in smaller spaces - height of only 200mm & width of only 790mm (size P15-32)
- Extremely quiet operation for minimal disturbance - as low as 22dBA (size P15-20)
- External static pressure of 5-50Pa, allowing flexibility of design and application
- Available in a 1.5kW size, ideal for hotel rooms
- Compatible with Plasma Quad Connect - an innovative, bolt-on air purifying device which neutralises viruses, bacteria, allergens, PM2.5, mould and dust. For more information, please refer to page 1.1.7



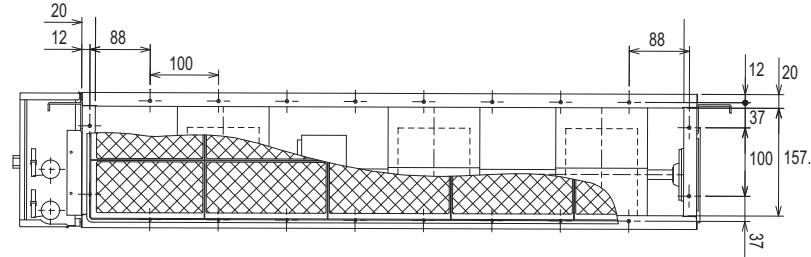
INDOOR UNITS		PEFY-P15VMS1-E	PEFY-P20VMS1-E	PEFY-P25VMS1-E	PEFY-P32VMS1-E	PEFY-P40VMS1-E	PEFY-P50VMS1-E	PEFY-P63VMS1-E
CAPACITY (kW)	Heating (nominal)	1.9	2.5	3.2	4.0	5.0	6.3	8.0
	Cooling (nominal)	1.7	2.2	2.8	3.6	4.5	5.6	7.1
	UK Heating	1.9	2.5	3.2	4.0	5.0	6.3	8.0
	UK Total Cooling - Hi (Sensible)	1.50 (1.40)	2.00 (1.70)	2.50 (2.10)	3.20 (2.50)	4.10 (3.00)	5.00 (3.70)	6.40 (4.70)
	UK Total Cooling - Mi	1.44	1.89	2.32	2.99	3.95	4.78	6.13
	UK Total Cooling - Lo	1.34	1.76	2.07	2.63	3.70	4.51	5.77
POWER INPUT (kW)	Heating (nominal)	0.03	0.03	0.04	0.05	0.05	0.07	0.07
	Cooling (nominal)	0.05	0.05	0.06	0.07	0.07	0.09	0.09
AIRFLOW (l/s)	Lo-Mi-Hi	83-100-117	91-108-133	91-117-150	100-133-167	133-158-183	158-183-217	200-233-275
EXTERNAL STATIC PRESSURE (Pa)	5-15-35-50	5-15-35-50	5-15-35-50	5-15-35-50	5-15-35-50	5-15-35-50	5-15-35-50	5-15-35-50
SOUND PRESSURE LEVEL (dBA)* ¹ Lo-Mi-Hi	22-24-28	22-25-29	24-26-30	24-27-32	28-30-33	30-32-35	30-33-36	
WEIGHT (kg)	19	19	19	20	24	24	24	28
DIMENSIONS (mm)	Width	790	790	790	790	990	990	1190
	Depth	700	700	700	700	700	700	700
	Height	200	200	200	200	200	200	200
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
PHASE	Single	Single	Single	Single	Single	Single	Single	Single
RUNNING CURRENT (A) Heating / Cooling	0.31 / 0.42	0.36 / 0.47	0.39 / 0.50	0.39 / 0.50	0.45 / 0.56	0.56 / 0.67	0.61 / 0.72	
FUSE RATING (BS88) - HRC (A)	6	6	6	6	6	6	6	6
MAINS CABLE No. Cores	3	3	3	3	3	3	3	3

Note: *1 Additional sound data is available for this model. Separated inlet and breakout sound power level and discharge sound power level data is available on request.

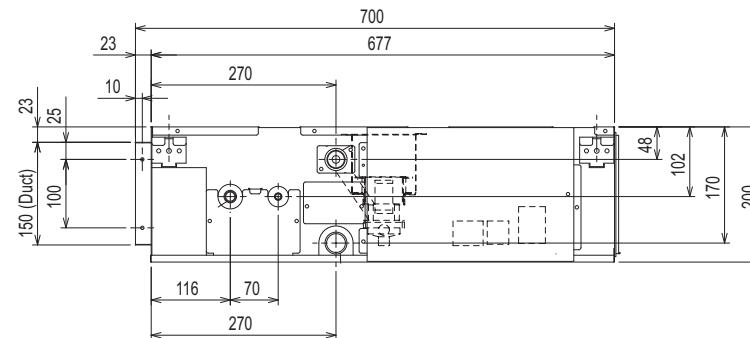
Upper View



Front View



Side View



Model	A	B	C	D	E	F
PEFY-P15-32VMS1-E	700	752	798	660	7	600
PEFY-P40-50VMS1-E	900	952	998	860	9	800
PEFY-P63VMS1-E	1100	1152	1198	1060	11	1000

PEFY-M-VMA-A1

Ceiling Concealed Ducted Indoor Unit



The **PEFY-M-VMA-A1** low-height ducted indoor unit is concealed within the ceiling space, offering unobtrusive air conditioning. The flexibility of duct layout allows airflow patterns to be arranged to suit any application.

Key Features & Benefits

- Additional fan speed (compared to previous model) provides a wider range of airflows and more flexible air distribution
- High sensible cooling capacity combined with improved airflows, enabling better off-coil temperatures for enhanced occupant comfort levels
- Low height of 250mm, allowing installation in smaller spaces
- Flexibility of design and application with a wide range of external static pressure settings across the entire range (35-150Pa)
- Low noise levels facilitated through use of a centrifugal fan
- Drain pump included as standard
- CN105 connector available - connect to MELCOBEMS MINI for simple BEMS interfacing
- Compatible with Plasma Quad Connect - an innovative, bolt-on air purifying device which neutralises viruses, bacteria, allergens, PM2.5, mould and dust.

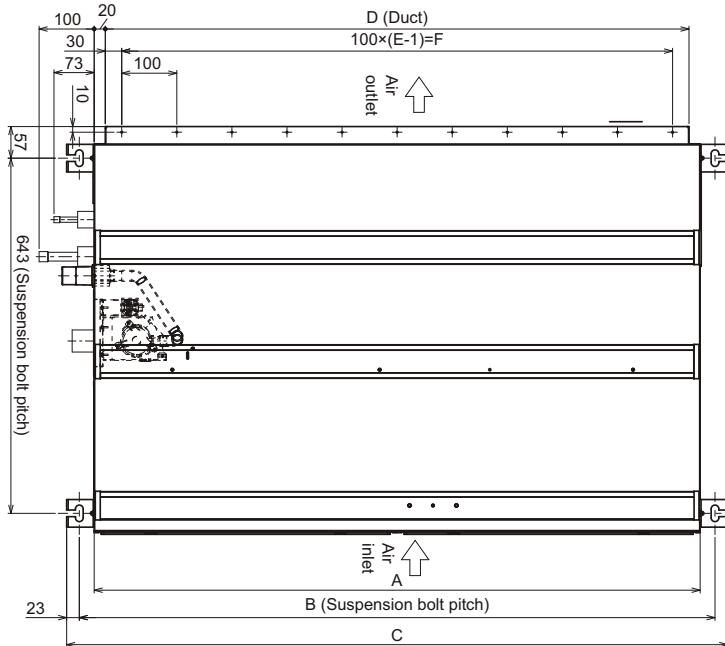
For more information, please refer to page 1.1.7



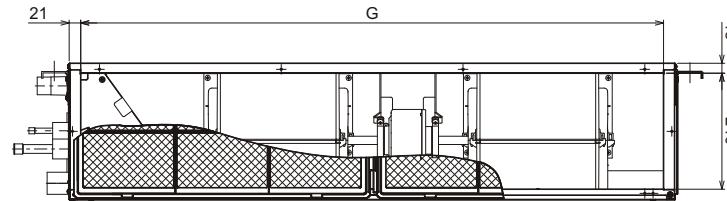
INDOOR UNITS	PEFY-M20VMA-A1	PEFY-M25VMA-A1	PEFY-M32VMA-A1	PEFY-M40VMA-A1	PEFY-M50VMA-A1	PEFY-M63VMA-A1	PEFY-M80VMA-A1	PEFY-M100VMA-A1	PEFY-M125VMA-A1	
CAPACITY (kW)										
Heating (nominal)	2.5	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0	
Cooling (nominal)	2.2	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	
UK Heating	2.5	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0	
UK Total Cooling - Hi (Sensible)	2.00 (1.90)	2.50 (2.10)	3.20 (2.60)	4.0 (3.60)	5.00 (4.80)	6.40 (5.40)	8.10 (7.20)	10.0 (8.40)	12.5 (9.70)	
UK Total Cooling - Mi1	1.92	2.40	3.05	3.57	4.27	5.79	6.86	9.64	12.37	
UK Total Cooling - Mi2	1.83	2.28	2.87	3.31	4.00	5.32	6.33	9.17	12.01	
UK Total Cooling - Lo	1.65	2.06	2.62	3.07	3.60	4.86	5.62	8.38	11.09	
POWER INPUT (kW)										
Heating (nominal)	0.04	0.04	0.06	0.09	0.13	0.23	0.22	0.21	0.22	
Cooling (nominal)	0.04	0.04	0.06	0.09	0.13	0.14	0.17	0.21	0.22	
AIRFLOW (l/s) Cooling	Lo-Mi2-Mi1-Hi	100-125-142-166	100-125-142-166	123-150-175-208	166-191-225-316	208-241-275-426	225-266-320-436	241-300-350-518	383-466-533-616	425-516-566-616
AIRFLOW (l/s) Heating	Lo-Mi2-Mi1-Hi	100-125-142-166	100-125-142-166	123-150-175-208	166-191-225-316	208-241-275-426	225-266-320-516	241-300-350-616	383-466-533-616	425-516-566-616
EXTERNAL STATIC PRESSURE (Pa)	35-50-70-100-150	35-50-70-100-150	35-50-70-100-150	35-50-70-100-150	35-50-70-100-150	35-50-70-100-150	40-50-70-100-150	40-50-70-100-150	40-50-70-100-150	40-50-70-100-150
SOUND PRESSURE LEVEL (dBA)* ¹	Lo-Mi2-Mi1-Hi Cooling	21.5-23-26.5-30	21.5-23-26.5-30	24-28-31.5-35.5	23.5-25.5-28.5-37	22-24-26.5-37	23-26-30-37.5	22-25-27.5-38.5	29.5-34-37.5-40	31.5-36.5-38.5-40.5
SOUND PRESSURE LEVEL (dBA)* ¹	Lo-Mi2-Mi1-Hi Heating	21.5-23-26.5-30	21.5-23-26.5-30	24-28-31.5-35.5	23.5-25.5-28.5-37	22-24-26.5-37	23-26-30-41.5	22-25-27.5-40.5	29.5-34-37.5-40	31.5-36.5-38.5-40.5
WEIGHT (kg)	21	21	21	25	30	30	37	37	38	
DIMENSIONS (mm)	Width Depth Height	700 732 250	700 732 250	900 732 250	1100 732 250	1100 732 250	1400 732 250	1400 732 250	1400 732 250	
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	220-240v, 50Hz
PHASE	Single	Single	Single	Single	Single	Single	Single	Single	Single	Single
RUNNING CURRENT (A)	Heating / Cooling	0.33/0.33	0.33/0.33	0.48/0.48	0.67/0.67	0.90/0.90	1.48/0.95	1.41/1.11	1.38/1.38	1.33/1.33
FUSE RATING (BS88)- HRC (A)	6	6	6	6	6	6	6	6	6	6
MAINS CABLE No. Cores	3	3	3	3	3	3	3	3	3	3

Note: *1 Measured in an anechoic chamber with a 1m inlet duct and 2m air outlet duct, 1.5m below unit

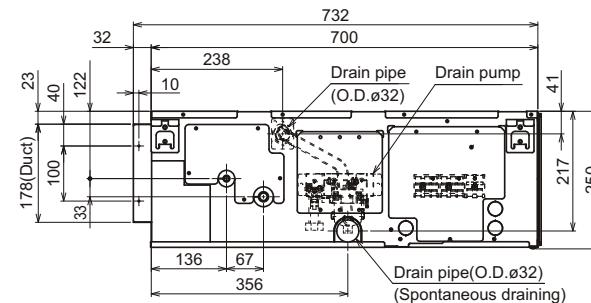
Upper View



Front View



Side View



Model	A	B	C	D	E	F	G
PEFY-M20,25,32VMA-A1	700	754	800	660	7	600	658
PEFY-M40VMA-A1	900	954	1000	860	9	800	858
PEFY-M50,63VMA-A1	1100	1154	1200	1060	11	1000	1058
PEFY-M80,100,125VMA-A1	1400	1454	1500	1360	14	1300	1358

PEFY-P-VMHS-E

High Static Pressure Ceiling Concealed Ducted Indoor Unit



With increased design flexibility as a result of increased external static pressure, the **PEFY-P-VMHS-E** ceiling concealed unit is an ideal choice for applications such as retail and warehouse spaces.

Key Features & Benefits

- External static pressure of up to 250Pa for flexibility of design and application
- Greater versatility of duct extension, branching air outlet configuration
- Low noise levels facilitated through use of a centrifugal fan
- Duct can be connected to intake side



INDOOR UNITS		PEFY-P80VMHS-E	PEFY-P100VMHS-E	PEFY-P125VMHS-E	PEFY-P140VMHS-E	PEFY-P200VMHS-E	PEFY-P250VMHS-E
CAPACITY (kW)	Heating (nominal)	10.0	12.5	16.0	18.0	25.0	31.5
	Cooling (nominal)	9.0	11.2	14.0	16.0	22.4	28.0
	UK Heating	10.0	12.5	16.0	18.0	25.0	31.5
	UK Total Cooling - Hi (Sensible)	8.10 (6.10)	10.10 (8.30)	12.60 (9.50)	14.40 (10.80)	20.20 (15.60)	25.20 (19.30)
	UK Total Cooling - Mi	7.79	9.65	12.03	13.80	19.33	24.10
	UK Total Cooling - Lo	7.27	8.95	11.16	12.77	17.84	22.21
POWER INPUT (kW)	Heating (nominal)	0.09	0.16	0.16	0.19	0.63	0.82
	Cooling (nominal)	0.09	0.16	0.16	0.19	0.63	0.82
AIRFLOW (l/s)	Lo-Mi-Hi	300-358-417	442-533-633	442-533-633	467-567-667	833-1017-1200	967-1183-1400
EXTERNAL STATIC PRESSURE (Pa)	100-150-200	100-150-200	100-150-200	100-150-200	50-100-150-200-250	50-100-150-200-250	50-100-150-200-250
SOUND PRESSURE LEVEL (dBA) (150Pa)	Lo-Mi-Hi	25-27-30	27-31-34	27-31-34	27-32-36	36-39-43	39-42-46
WEIGHT (kg)		45	51	51	53	97	100
DIMENSIONS (mm)	Width	1030	1195	1195	1195	1250	1250
	Depth	900	900	900	900	1120	1120
	Height	380	380	380	380	470	470
ELECTRICAL SUPPLY		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
RUNNING CURRENT (A) Heating / Cooling		0.61 / 0.61	1.01 / 1.01	1.01 / 1.01	1.19 / 1.19	3.32 / 3.32	4.43 / 4.43
FUSE RATING (BS88) - HRC (A)		6	6	6	6	6	6
MAINS CABLE No. Cores		3	3	3	3	3	3

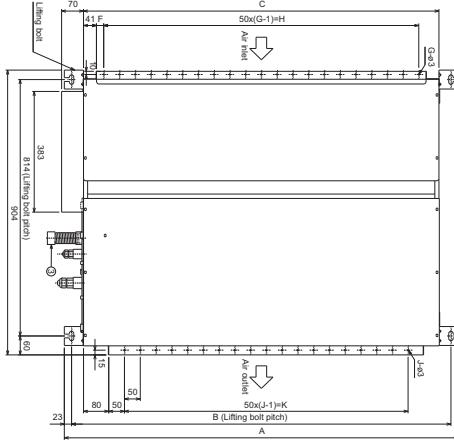
Product Dimensions

PEFY-P80/100/125/140VMHS-E

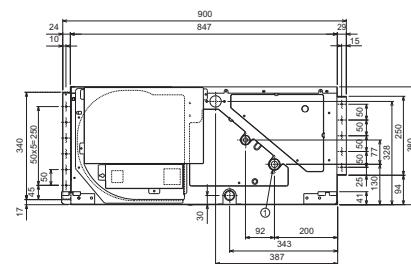
Product Dimensions

PEFY-P200/250VMHS-E

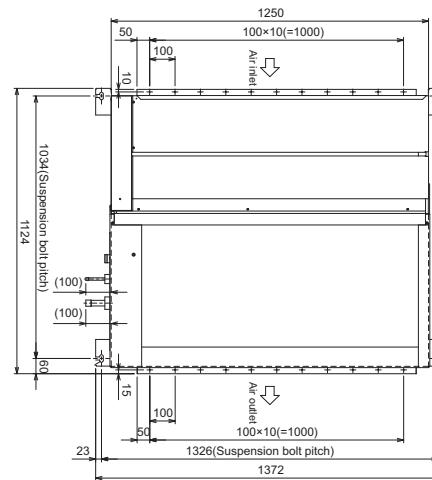
Upper View



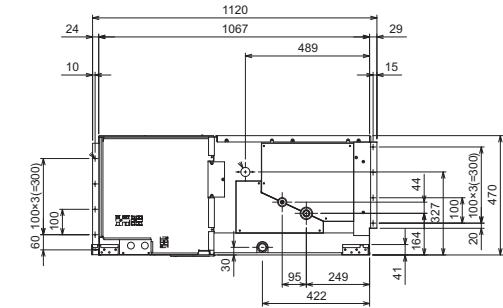
Side View



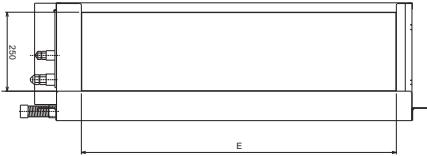
Upper View



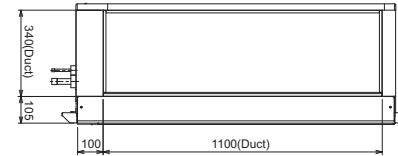
Side View



Front View



Front View



Model	A	B	C	E	F	G	H	J	K
PEFY-P80VMHS-E	1085	1039	965	835	42.5	17	800	15	700
PEFY-P100-140VMHS-E	1250	1204	1130	1000	25	21	1000	19	900

PLFY-M-VEM6-E

4-Way Blow Ceiling Cassette Indoor Unit



The **PLFY-M-VEM6-E** offers 72 different airflow patterns, with the ability to handle a multitude of ceiling applications up to 4.2 metres in height. The easy to install, slimline unit is ideal for maintaining constant temperatures, thanks to adjustable vanes that allow users to precisely direct air where it's needed.

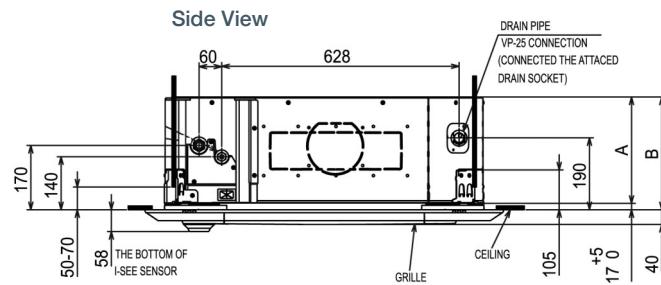
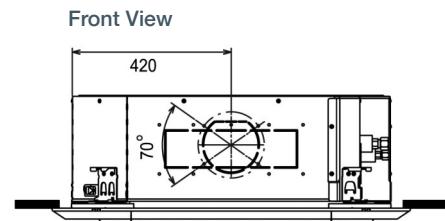
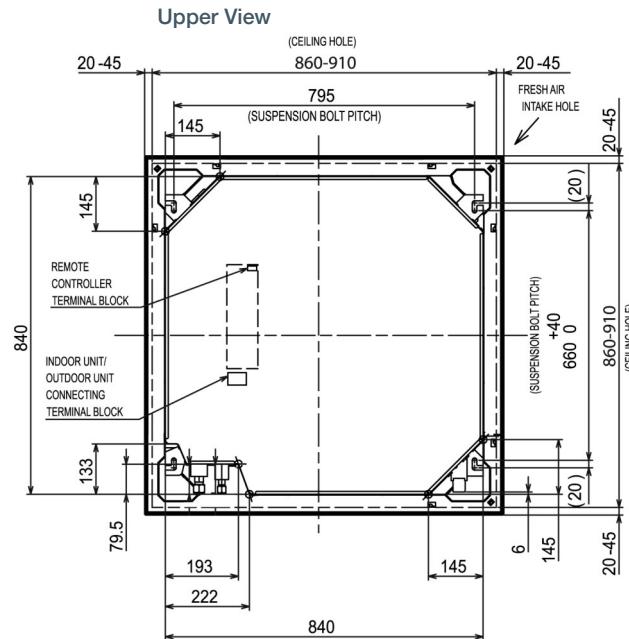
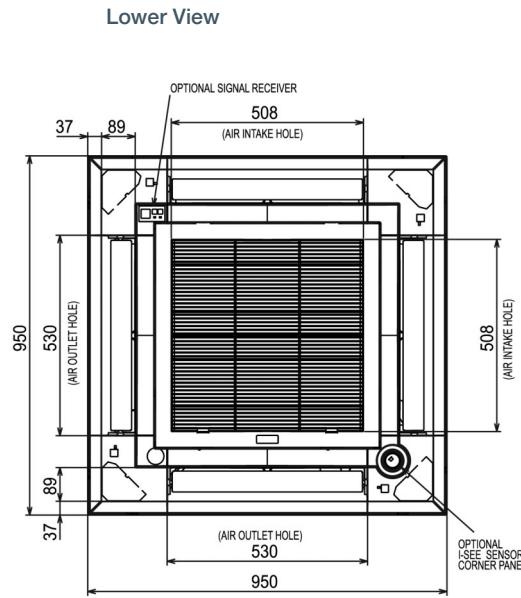
Key Features & Benefits

- High sensible cooling capacity combined with improved airflows, enabling better off-coil temperatures for enhanced occupant comfort levels
 - Optional 3D i-see sensor grille (PLP-6EAЕ) provides customised comfort by automatically monitoring room occupancy, position and body temperatures
 - Optional filter lowering operation down to 4m (PLP-6EAJ), allowing for easier maintenance
 - Optional black (Satin finish) grille (PLP-6EA-B), for environments that desire a premium quality feel
 - Optional V Blocking filter provides in-room air purification, neutralising 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.

For more information, please refer to page 1.1.7

For more information, please refer to page 1.1.7.





Model	A	B
PLFY-M32,40VEM6-E	241	258
PLFY-M50,63,80,100,125VEM6-E	281	298

PLFY-P-VFM-E

600x600 4-Way Blow Ceiling Cassette Indoor Unit

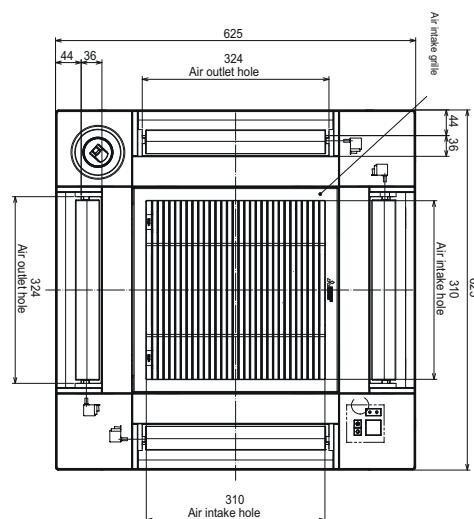
The **PLFY-P-VFM-E** 600x600 cassette unit provides a smart air conditioning solution for tight ceiling spaces. Designed to fit directly into standard 600mm square ceiling grids, these units are a perfect choice for both offices and retail applications. The optional 3D i-see sensor grille optimises both energy consumption and comfort levels.

Key Features & Benefits

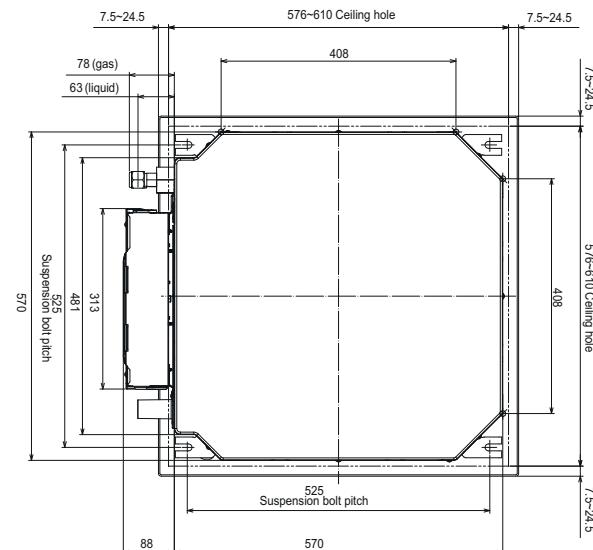
- Stylish square slimline design - fits into narrow ceiling spaces with a height of only 245mm
 - Low noise levels for minimal disturbance - reduced noise value with 3D turbo fan
 - Increased comfort levels through advanced airflow
 - Easy installation - temporary hanging hook on grille and no screw removal for corner panel / control box
 - Optional 3D i-see sensor grille (SLP-2FAE) provides energy efficient, customised comfort by automatically monitoring room occupancy, position and body temperatures
 - Optional V Blocking filter provides in-room air purification, neutralising viruses, allergens, dust and mould



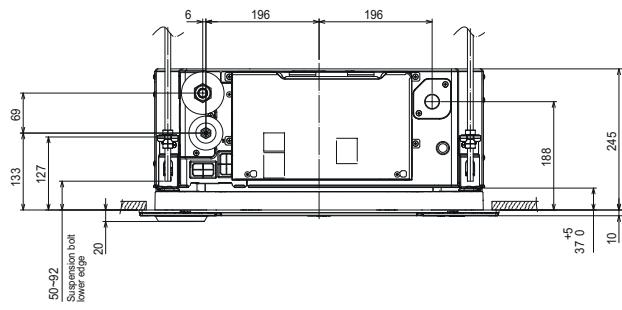
Upper View



Lower View



Side View



PFFY-P-VCM-E

Floor Standing Concealed Indoor Unit



The **PFFY-P-VCM-E** is a compact concealed unit that provides simple, effective air conditioning in perimeter zones. The unit is easy to install and, at only 200mm deep, offers an unobtrusive method of delivering a highly efficient air conditioning performance.

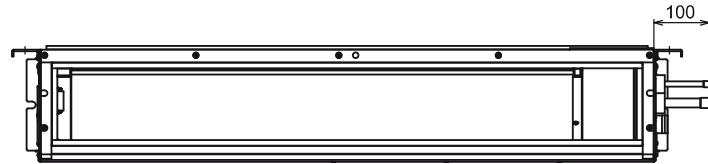
Key Features & Benefits

- Concealed unit for hidden installation
- Ideal for perimeter installations and refurbishments
- 0-10-40-60Pa static pressure settings available for flexibility of design and application

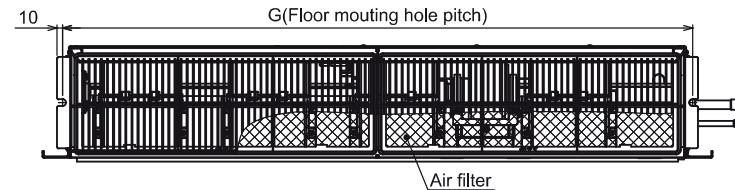


INDOOR UNITS		PFFY-P20VCM-E	PFFY-P25VCM-E	PFFY-P32VCM-E	PFFY-P40VCM-E	PFFY-P50VCM-E	PFFY-P63VCM-E
CAPACITY (kW)	Heating (nominal)	2.5	3.2	4.0	5.0	6.3	8.0
	Cooling (nominal)	2.2	2.8	3.6	4.5	5.6	7.1
	UK Heating	2.5	3.2	4.0	5.0	6.3	8.0
	UK Total Cooling - Hi (Sensible)	2.00 (1.60)	2.50 (1.90)	3.20 (2.40)	4.10 (3.00)	5.00 (3.80)	6.40 (4.70)
	UK Total Cooling - Mi	1.92	2.40	3.05	3.95	4.81	6.11
	UK Total Cooling - Lo	1.77	2.21	2.87	3.70	4.48	5.71
POWER INPUT (kW)	Heating (nominal)	0.022	0.026	0.031	0.038	0.052	0.058
	Cooling (nominal)	0.022	0.026	0.031	0.038	0.052	0.058
AIRFLOW (l/s)	Lo-Mi-Hi	83-100-117	92-108-133	92-117-142	133-158-183	167-192-225	200-233-275
EXTERNAL STATIC PRESSURE (Pa)	0-10-40-60	0-10-40-60	0-10-40-60	0-10-40-60	0-10-40-60	0-10-40-60	0-10-40-60
SOUND PRESSURE LEVEL (dBA) Lo-Mi-Hi	21-23-26	22-25-29	23-26-30	25-27-30	28-31-34	28-32-35	
WEIGHT (kg)	18	18	18.5	22.5	22.5	25.5	
DIMENSIONS (mm)	Width	700	700	700	900	900	1100
	Depth	200	200	200	200	200	200
	Height	690	690	690	690	690	690
ELECTRICAL SUPPLY	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
PHASE	Single	Single	Single	Single	Single	Single	Single
RUNNING CURRENT (A) Heating / Cooling	0.25 / 0.25	0.30 / 0.30	0.34 / 0.34	0.38 / 0.38	0.50 / 0.50	0.49 / 0.49	
FUSE RATING (BS88) - HRC (A)	6	6	6	6	6	6	6
MAINS CABLE No. Cores	3	3	3	3	3	3	3

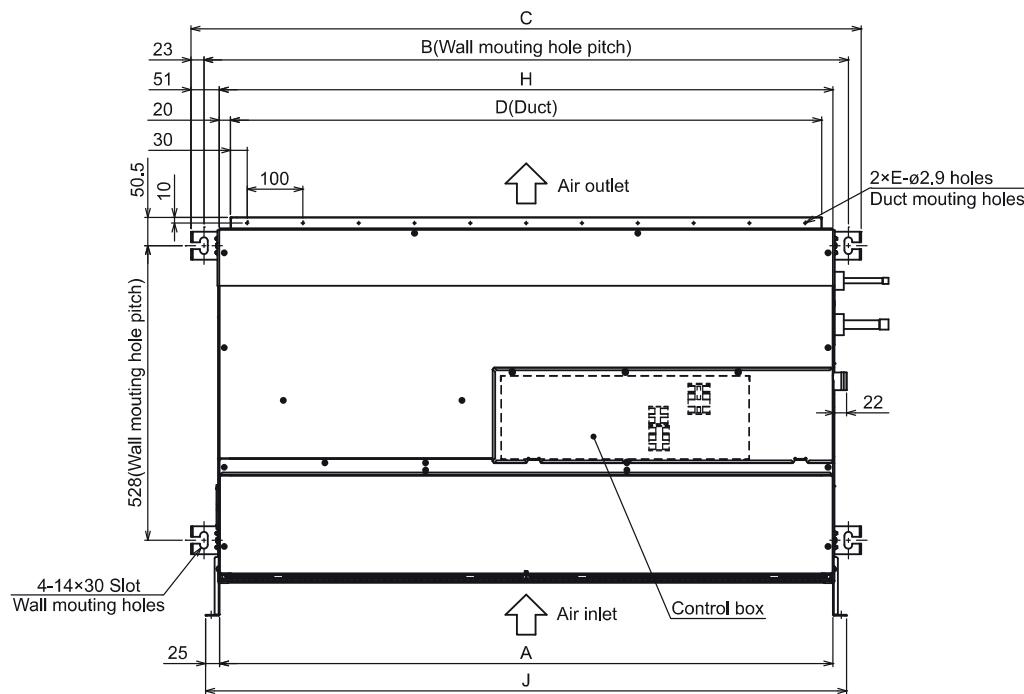
Upper View



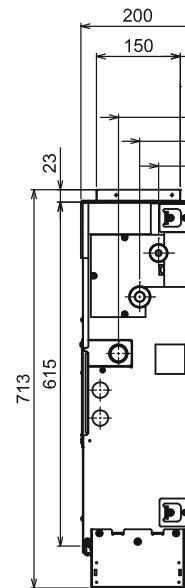
Lower View



Front View



Side View



Model	A	B	C	D	E	F	G	H	J
PFFY-P20-25-32VCM-E	700	756	802	660	7	600	730	700	750
PFFY-P40-50VCM-E	900	956	1002	860	9	800	930	900	950
PFFY-P63VCM-E	1100	1156	1202	1060	11	1000	1130	1100	1150

PFFY-P-VLEM-E

Floor Standing Exposed Indoor Unit



The **PFFY-P-VLEM-E** is a compact cased unit that provides simple, effective air conditioning in perimeter zones. Constructed in a robust, metal casement, and with a depth of only 220mm, it offers a flexible solution for applications such as offices, retail and hospitals.

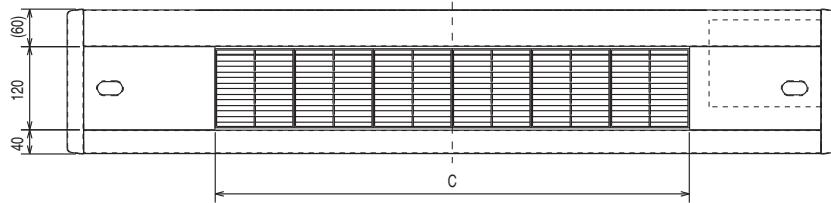
Key Features & Benefits

- Perimeter air conditioning for retrofit applications where ceiling void not available
- Minimalist design with exposed casement
- Convenient built-in housing for the remote controller

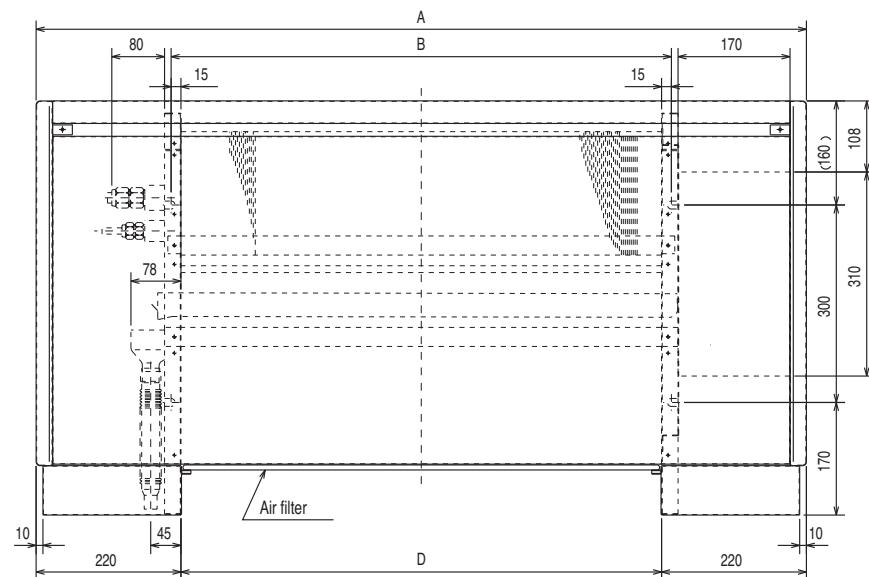


INDOOR UNITS		PFFY-P20VLEM-E	PFFY-P25VLEM-E	PFFY-P32VLEM-E	PFFY-P40VLEM-E	PFFY-P50VLEM-E	PFFY-P63VLEM-E
CAPACITY (kW)	Heating (nominal)	2.5	3.2	4.0	5.0	6.3	8.0
	Cooling (nominal)	2.2	2.8	3.6	4.5	5.6	7.1
	UK Heating	2.5	3.2	4.0	5.0	6.3	8.0
	UK Total Cooling - Hi (Sensible)	2.00 (1.60)	2.50 (1.90)	3.20 (2.40)	4.10 (3.00)	5.00 (3.80)	6.40 (4.70)
	UK Total Cooling - Lo	1.92	2.40	2.97	3.88	4.81	5.93
POWER INPUT (kW)	Heating (nominal)	0.04	0.04	0.06	0.065	0.085	0.10
	Cooling (nominal)	0.04	0.04	0.06	0.065	0.085	0.10
AIRFLOW (l/s)	Lo-Hi	92-108	92-108	117-150	150-183	200-233	200-258
SOUND PRESSURE LEVEL (dBA)	Lo-Hi	34-40	34-40	35-40	38-43	38-43	40-46
WEIGHT (kg)		23	23	25	26	30	32
DIMENSIONS (mm)	Width	1050	1050	1170	1170	1410	1410
	Depth	220	220	220	220	220	220
	Height	630	630	630	630	630	630
ELECTRICAL SUPPLY		220-240v, 50Hz					
PHASE		Single	Single	Single	Single	Single	Single
RUNNING CURRENT (A) Heating / Cooling		0.19 / 0.19	0.19 / 0.19	0.29 / 0.29	0.32 / 0.32	0.40 / 0.40	0.46 / 0.46
FUSE RATING (BS88) - HRC (A)		6	6	6	6	6	6
MAINS CABLE No. Cores		3	3	3	3	3	3

Upper View



Front View



Model	A	B	C	D
PFFY-P20VLEM-E	1050	640	600	610
PFFY-P25VLEM-E	1050	640	600	610
PFFY-P32VLEM-E	1170	760	720	730
PFFY-P40VLEM-E	1170	760	720	730
PFFY-P50VLEM-E	1410	1000	960	970
PFFY-P63VLEM-E	1410	1000	960	970

PFFY-P-VKM-E

Floor Standing Exposed Indoor Unit



The **PFFY-P-VKM-E** is extremely versatile and designed for wall attached installation at floor level. The auto swing vane provides a more natural and comfortable airflow throughout the room and the lightweight, compact design makes installation easy.

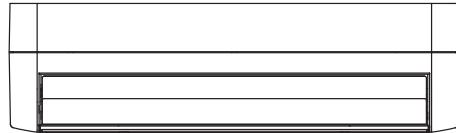
Key Features & Benefits

- White, slimline design for easy installation
- Upper and lower vanes for optimum, powerful and efficient air distribution

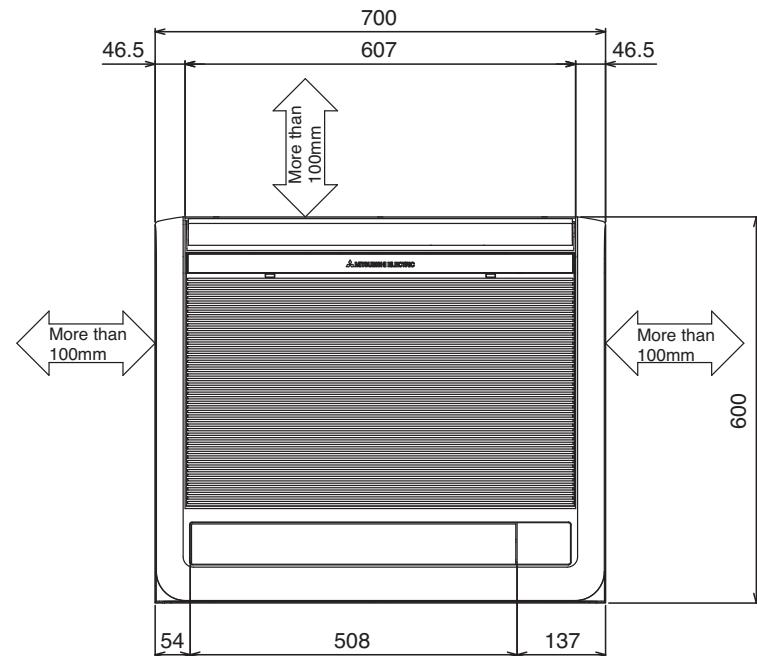


INDOOR UNITS		PFFY-P20VKM-E	PFFY-P25VKM-E	PFFY-P32VKM-E	PFFY-P40VKM-E
CAPACITY (kW)	Heating (nominal)	2.5	3.2	4.0	5.0
	Cooling (nominal)	2.2	2.8	3.6	4.5
	UK Heating	2.5	3.2	4.0	5.0
	UK Total Cooling - Hi (Sensible)	2.00 (1.60)	2.50 (1.90)	3.20 (2.30)	4.10 (2.90)
	UK Total Cooling - M2	1.94	2.42	3.10	3.98
	UK Total Cooling - M1	1.86	2.31	2.96	3.92
	UK Total Cooling - Lo	1.75	2.17	2.78	3.74
POWER INPUT (kW)	Heating (nominal)	0.025	0.025	0.025	0.028
	Cooling (nominal)	0.025	0.025	0.025	0.028
AIRFLOW (l/s)	Lo-M1-Mi2-Hi	98-113-127-145	102-117-133-152	102-117-133-152	133-150-158-178
SOUND PRESSURE LEVEL (dBA)	Lo-M1-Mi2-Hi	27-31-34-37	28-32-35-38	28-32-35-38	35-38-42-44
WEIGHT (kg)		15	15	15	15
DIMENSIONS (mm)	Width	700	700	700	700
	Depth	200	200	200	200
	Height	600	600	600	600
ELECTRICAL SUPPLY		220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
PHASE	Single	Single	Single	Single	Single
RUNNING CURRENT (A) Heating / Cooling	0.20 / 0.20	0.20 / 0.20	0.20 / 0.20	0.24 / 0.24	0.24 / 0.24
FUSE RATING (BS88) - HRC (A)	6	6	6	6	6
MAINS CABLE No. Cores	3	3	3	3	3

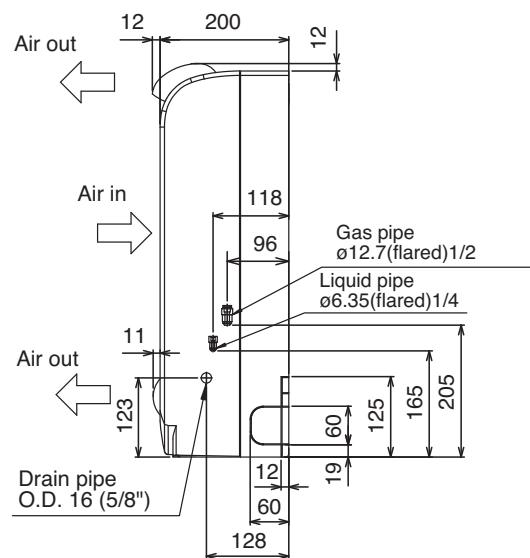
Upper View



Front View



Side View



PKFY-P-VLM-E / VKM-E

Wall Mounted Indoor Unit

The elegant, compact design of the **PKFY-P** wall mounted indoor unit, is an ideal unit choice for exposed applications. The units quiet operation promotes minimal disturbance in close proximity.

Key Features & Benefits

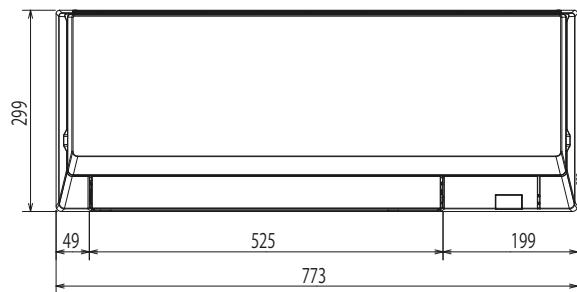
- Compact flat panel design - only 773mm wide (sizes 10-32)
 - Widened vane control for improved air distribution and comfort
 - Reduced noise levels of 22dB(A) (sizes 10-25) enabling minimal disturbance
 - Compatible with Plasma Quad Connect - an innovative, bolt-on air purifying device which neutralises viruses, bacteria, allergens, PM2.5, mould and dust. For more information, please refer to page 1.1.7



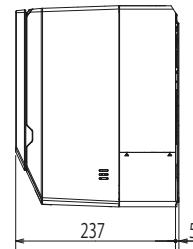
Product Dimensions

PKFY-P10/15/20/25/32VLM-E

Front View

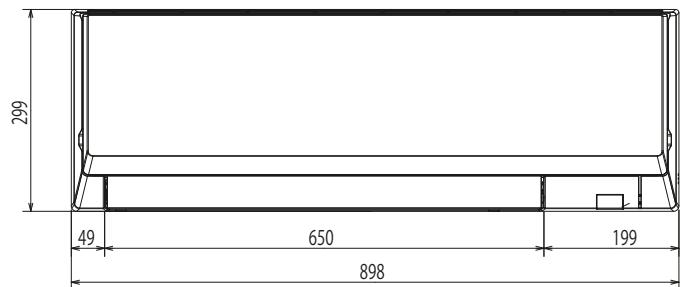


Side View

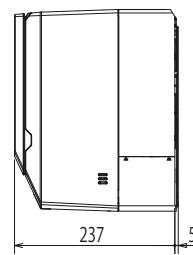
**Product Dimensions**

PKFY-P40/50VLM-E

Front View

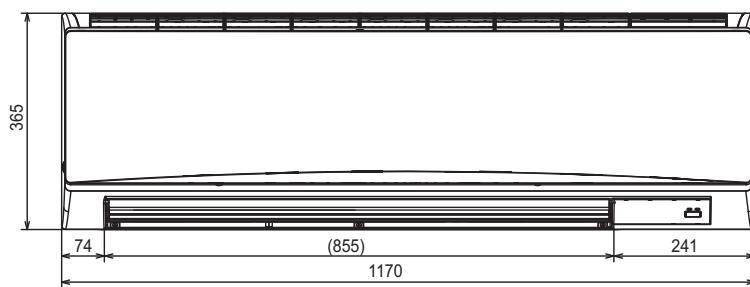


Side View

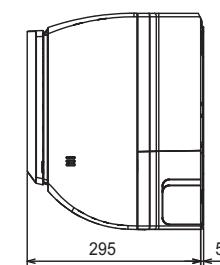
**Product Dimensions**

PKFY-P63VKM-E

Front View



Side View



PCFY-P-VKM-E

Ceiling Suspended Indoor Unit



Designed for ultra-quiet operation and easy maintenance, the **PCFY-P-VKM-E** provides comfortable air conditioning for a wide range of applications where floor or wall space cannot be used practically.

Key Features & Benefits

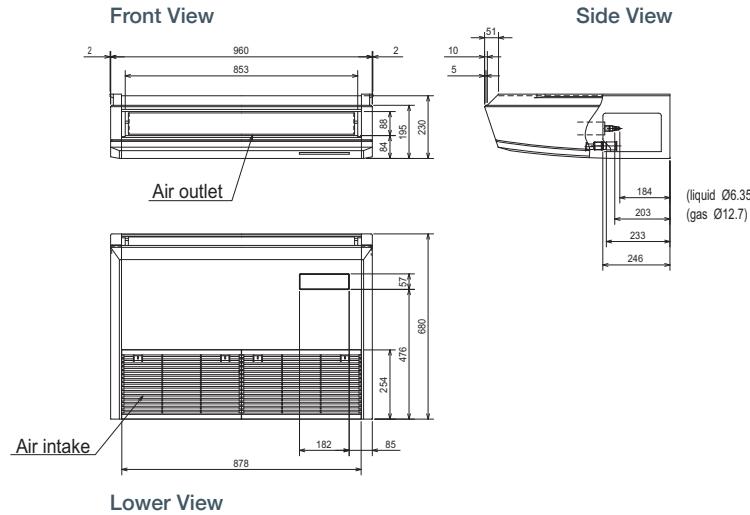
- Indoor unit designed for direct ceiling suspension
- Flush to wall installation for concealment of service connections
- Drain piping can be connected from left or right



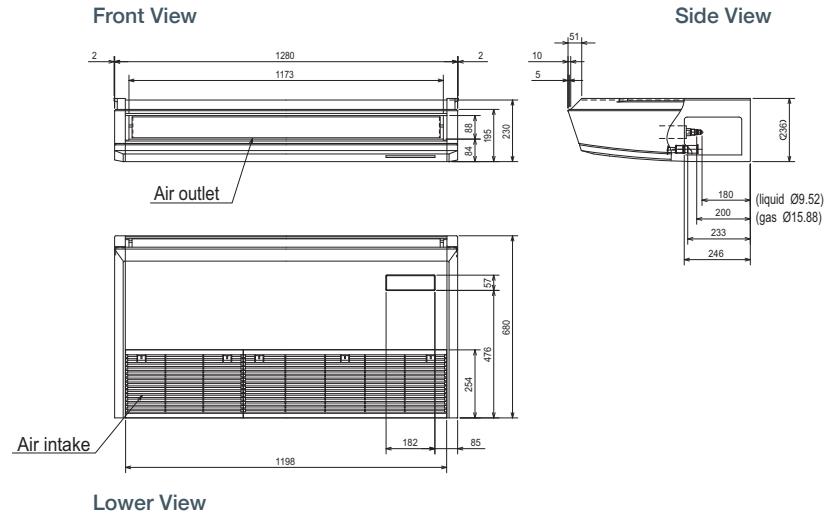
INDOOR UNITS		PCFY-P40VKM-E	PCFY-P63VKM-E	PCFY-P100VKM-E	PCFY-P125VKM-E
CAPACITY (kW)	Heating (nominal)	5.0	8.0	12.5	16.0
	Cooling (nominal)	4.5	7.1	11.2	14.0
	UK Heating	5.0	8.0	12.5	16.0
	UK Total Cooling - Hi (Sensible)	4.10 (3.00)	6.40 (4.60)	10.10 (7.10)	12.60 (8.90)
	UK Total Cooling - M2	4.03	6.22	9.94	12.17
	UK Total Cooling - M1	3.92	6.09	9.70	11.66
	UK Total Cooling - Lo	3.79	5.93	9.23	11.00
POWER INPUT (kW)	Heating (nominal)	0.04	0.05	0.09	0.11
	Cooling (nominal)	0.04	0.05	0.09	0.11
AIRFLOW (l/s)	Lo-M1-M2-Hi	167-183-200-217	233-250-267-300	350-400-433-467	350-400-450-517
SOUND PRESSURE LEVEL (dBA)	Lo-M1-M2-Hi	29-32-34-36	31-33-35-37	36-38-41-43	36-39-42-44
WEIGHT (kg)		24	32	36	38
DIMENSIONS (mm)	Width	960	1280	1600	1600
	Depth	680	680	680	680
	Height	230	230	230	230
ELECTRICAL SUPPLY		220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
PHASE		Single	Single	Single	Single
RUNNING CURRENT (A) Heating / Cooling		0.28 / 0.28	0.33 / 0.33	0.65 / 0.65	0.76 / 0.76
FUSE RATING (BS88) - HRC (A)		6	6	6	6
MAINS CABLE No. Cores		3	3	3	3

Product Dimensions

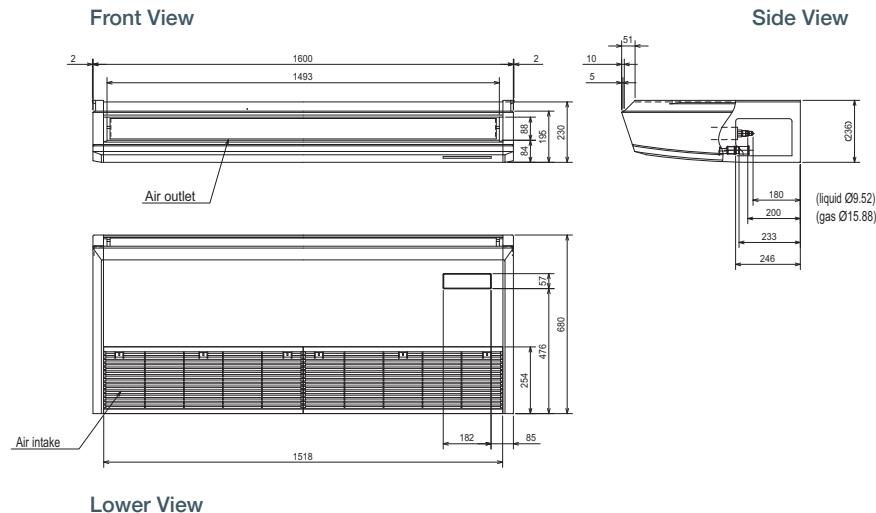
PCFY-P40VKM-E

**Product Dimensions**

PCFY-P63VKM-E

**Product Dimensions**

PCFY-P100/125VKM-E



PWFY-P-VM-E-BU

VRF Sanitary Water Heater



Taking full advantage of heat recovery technology, the **PWFY-P** City Multi VRF Sanitary Water Heater is an ideal solution for providing an energy efficient hot water supply to commercial buildings. The simple addition of the booster unit to the existing VRF system makes this a very flexible solution for a variety of applications.

Key Features & Benefits

- Energy efficient provision of hot water, achieving a flow temperature of up to 70°C
- Simple addition of the booster unit to the existing air conditioning system
- Eliminates the inconveniences of gas boiler installation, such as gas grid connection costs, meter installation and maintenance costs
- Uses the PAR-W21MAA controller



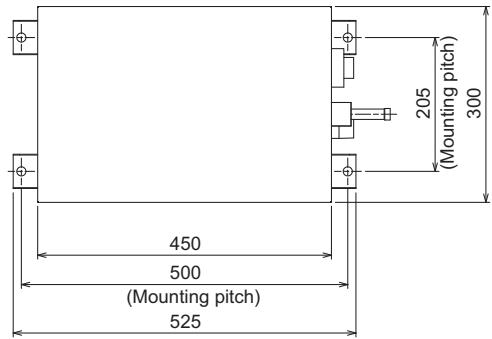
SANITARY WATER HEATER		PWFY-P100VM-E-BU
CAPACITY (kW)	Hot water (nominal)* Hot water (UK)* ²	12.5 8.0 2.48
POWER INPUT (kW)		PURY / PQRY
COMPATIBLE OUTDOOR / CONDENSING UNITS		15.88 (5/8") 9.52 (3/8") PT 3/4 Screw 28
PIPE SIZE mm (in)	Gas Liquid Water Connection Water pipe size	44
SOUND PRESSURE LEVEL (dBA)		70
MAX WATER TEMPERATURE (°C)		1.5
OPTIMUM WATER FLOW RATE (m ³ /h)		22.5
WATER PRESSURE DROP AT OPTIMUM FLOW RATE (kPa)		60
WEIGHT (kg)		450 300 785 (800)
DIMENSIONS (mm)	Width Depth Height	220-240v, 50Hz
ELECTRICAL SUPPLY		Single
PHASE		10.66
RUNNING CURRENT (A)		25
FUSE RATING (BS88) - HRC (A)		3
MAINS CABLE No. Cores		CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) R134a (GWP 1430)
		1.1 / 1.6

Notes:

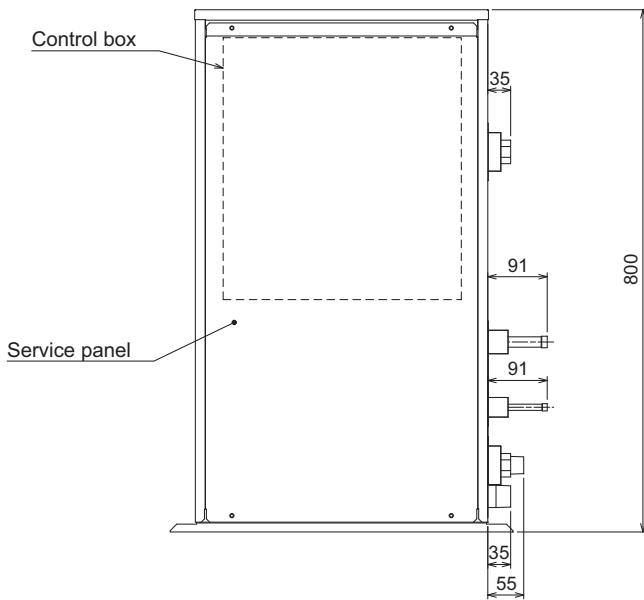
*1 Nominal conditions: Outdoor 7/6°C , 65°C inlet water temperature, 1.5m³/h water flow rate, 7.5m refrigerant pipe. (Please note this is a spot condition and not capacity over tank heat up).

*2 Typical capacity at -10°CWB outdoor temperature for tank heat up.

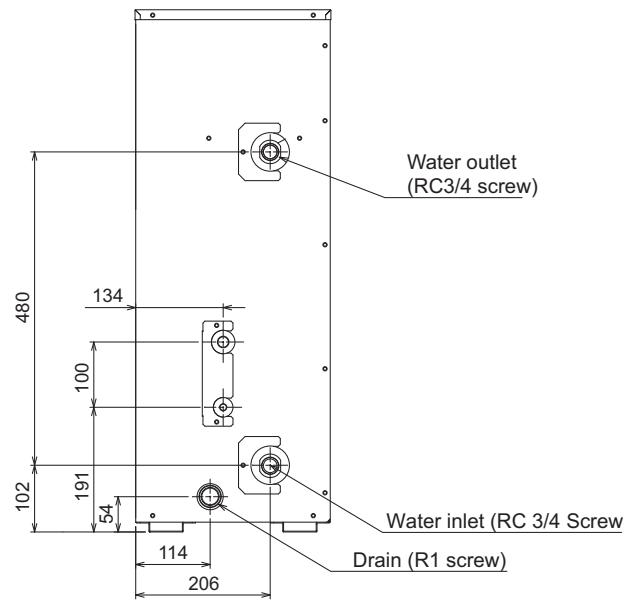
Upper View



Front View



Side View



VRF HP DXE

Heat Pump Air Curtain

In collaboration with Thermoscreens®, Mitsubishi Electric have developed a range of heat pump air curtains that are able to be connected to our City Multi VRF systems, as opposed to the more traditional direct electric method associated with air curtains.

Key Features & Benefits

- Reduced CO₂ emissions and run costs
- Allows open door policy in retail outlets whilst being energy efficient
- Clean indoor environment - protection from external dust, fumes etc.
- Heat recovery possible, optimising energy use



VRF HP DXE - RECESSED	VRF HP1000R DXE	VRF HP1500R DXE	VRF HP2000R DXE	VRF HP2000R DXE HO ^{*34}
CAPACITY (kW)	Heating (nominal) 8.3 Cooling (nominal) 7.4	13.2 11.8	15.7 14.0	21.0 16.8
AIRFLOW MAX (l/s)	364	575	720	720
SOUND PRESSURE LEVEL AT 3m (dBA) Lo-Mi1-Hi	50-55-58	49-54-58	50-55-58	50-55-58
WEIGHT (kg)	52	75	93	93
DIMENSIONS (mm)	Width 1250 Depth 348 Height 539	1750 348 539	2340 348 539	2340 348 539
ELECTRICAL SUPPLY ^{*1}	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
PHASE ^{*1}	Single	Single	Single	Single
RUNNING CURRENT (A) ^{*1}	0.8	1.2	1.4	1.4
MAINS CABLE No. Cores ^{*1}	3	3	3	3
UNIFORMITY AT OUTLET (%) ^{*2}	90	92	90	90
UNIT SIZE (Index)	P71	P125	P140	P200
MAX MOUNTING HEIGHT (m)	3.2	3.2	3.2	3.2
COMPATIBLE OUTDOOR UNITS	PUHY / PURY / PQHY / PQRY	PUHY / PURY / PQHY / PQRY	PUHY / PURY / PQHY / PQRY	PUHY / PURY / PQHY / PQRY



VRF HP DXE - FREE STANDING	VRF HP1000 DXE ^{*4}	VRF HP1500 DXE ^{*4}	VRF HP2000 DXE ^{*4}	VRF HP2000 DXE HO ^{*34}
CAPACITY (kW)	Heating (nominal) 8.3 Cooling (nominal) 7.4	13.2 11.8	15.7 14.0	21.0 16.8
AIRFLOW MAX (l/s)	364	575	720	720
SOUND PRESSURE LEVEL AT 3m (dBA) Lo-Mi1-Hi	50-55-58	49-54-58	50-55-58	50-55-58
WEIGHT (kg)	46	67	84	84
DIMENSIONS (mm)	Width 1300 Depth 468 Height 306	1825 468 306	2350 468 306	2350 468 306
ELECTRICAL SUPPLY ^{*1}	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
PHASE ^{*1}	Single	Single	Single	Single
RUNNING CURRENT (A) ^{*1}	0.8	1.2	1.4	1.4
MAINS CABLE No. Cores ^{*1}	3	3	3	3
UNIFORMITY AT OUTLET (%) ^{*2}	90	92	90	90
UNIT SIZE (Index)	P71	P125	P140	P200
MAX MOUNTING HEIGHT (m)	3.2	3.2	3.2	3.2
COMPATIBLE OUTDOOR UNITS	PUHY / PURY / PQHY / PQRY	PUHY / PURY / PQHY / PQRY	PUHY / PURY / PQHY / PQRY	PUHY / PURY / PQHY / PQRY

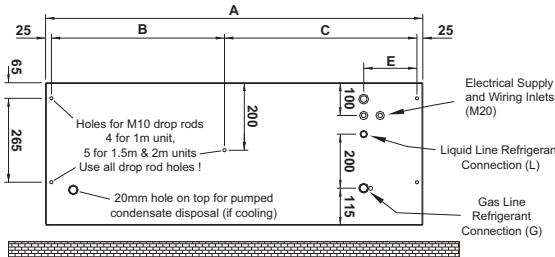
Thermoscreens

Notes: *1 For indoor units with electric defrost heaters enabled, 3ph, 380-415V power supply (7.3A HP1000, 12.1A HP1500, 14.4A HP2000). *2 Tested to ISO27327. *3 Includes twin LEV kit for installation with the air curtain. *4 This model is made to order.

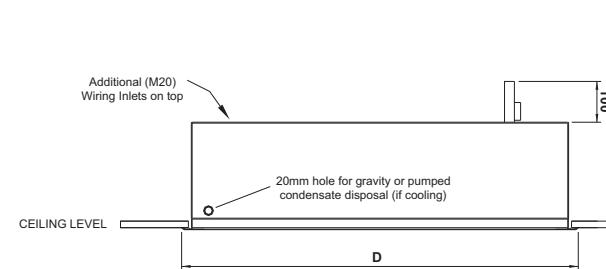
Product Dimensions

VRF HP1000/1500/2000R DXE (HO)

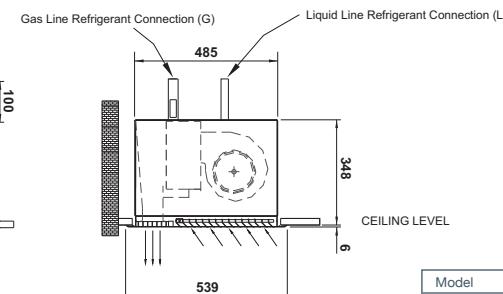
Front View



Upper View



Side View

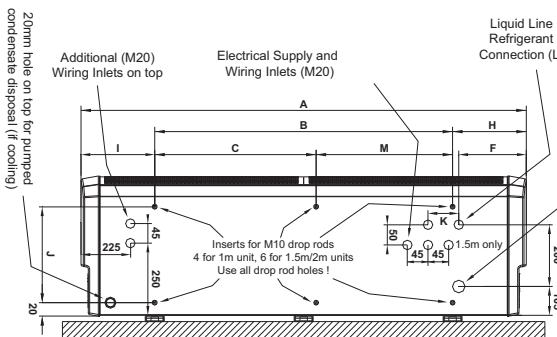


Model	VRF HP1000R DXE	VRF HP1500R DXE	VRF HP2000R DXE
A (mm)	1250	1750	2340
B (mm)	-	724	1129
C (mm)	-	976	1161
D (mm)	1303	1803	2393
E (mm)	170	166	189
G	¾ in.	¾ in.	¾ in.
L	½ in.	½ in.	½ in.
Cut-Out in Ceiling	Length (mm)	1250	1750
	Width (mm)	485	485

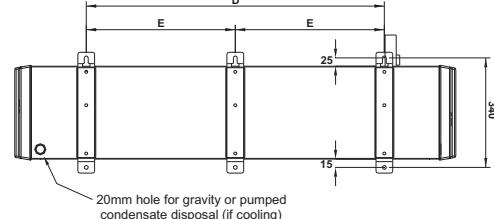
Product Dimensions

VRF HP1000/1500/2000 DXE (HO)

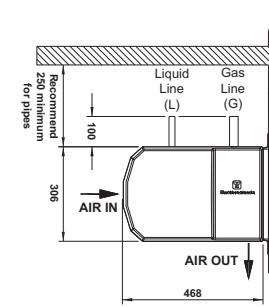
Front View



Upper View



Side View



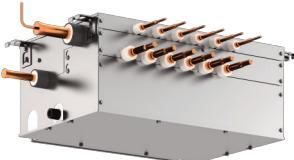
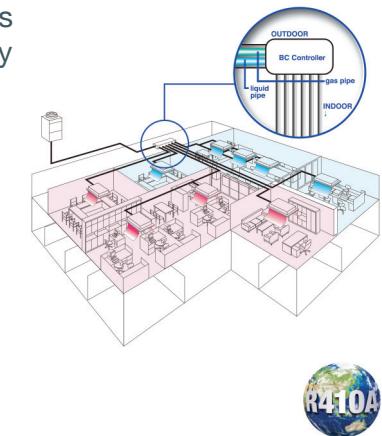
Model	VRF HP1000DXE	VRF HP1500DXE	VRF HP2000DXE
A (mm)	1300	1825	2350
B (mm)	605	1225	1793
C (mm)	-	655	918
D (mm)	898	1398	1904
E (mm)	-	699	952
F (mm)	182	222	204
G	¾ in.	¾ in.	¾ in.
H (mm)	442	333	299
I (mm)	253	267	258
J (mm)	359	359	334
K (mm)	80	45	80
L	½ in.	½ in.	½ in.
M	-	570	875

BC Controllers

At the heart of both the R2 and WR2 Series, the BC controller makes simultaneous heating and cooling possible. Improved system efficiency is achieved when energy is transferred intelligently around the building.

Key Features & Benefits

- Allows unique 2-pipe heat recovery application
- Simultaneous heating and cooling
- Instructs the heat source unit/outdoor unit on the amount of refrigerant (liquid or gas) that is required to achieve the requested cooling or heating requirements
- Slim profile for more flexible installation
- Easy servicing and maintenance access through underside drain pan
- Brazed connections



BC CONTROLLERS	CMB-M104V-J1	CMB-M106V-J1
NUMBER OF CONNECTIONS	4	6
WEIGHT (KG)	26	29
DIMENSIONS (MM)	Width 596 Depth 476 Height 250	Width 596 Depth 476 Height 250
ELECTRICAL SUPPLY	220-240v, 50Hz	220-240v, 50Hz
PHASE	Single	Single
POWER INPUT (kW)	0.076	0.11
RUNNING CURRENT (A)	0.34	0.48
FUSE RATING (BS88) – HRC (A)	6	6
MAINS CABLE NO. CORES	3	3

Note: CMB-M-V-J1 units are for use with PURY-EP200-350YNW-A2, PURY-P200-350YNW-A2 & PQRY-P200-300YLM-A1 units only.

MAIN BC CONTROLLERS	CMB-M108V-JA1	CMB-M1012V-JA1	CMB-M1016V-JA1	CMB-P1016V-KA1
NUMBER OF CONNECTIONS	8	12	16	16
WEIGHT (kg)	48	60	68	69
DIMENSIONS (mm)	Width 911 Depth 622 Height 252	Width 1135 Depth 622 Height 252	Width 1135 Depth 622 Height 252	Width 1135 Depth 622 Height 250
ELECTRICAL SUPPLY	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
PHASE	Single	Single	Single	Single
POWER INPUT (kW)	0.144	0.211	0.279	0.279
RUNNING CURRENT (A)	0.63	0.92	1.22	1.22
FUSE RATING (BS88) – HRC (A)	6	6	6	6
MAINS CABLE No. Cores	3	3	3	3

Notes: CMB-M-V-JA1 units are for use with PURY-EP200-900Y(S)NW-A2, PURY-P200-900Y(S)NW-A2 & PQRY-P200-900Y(S)LM-A1 units only.
CMB-P1016V-KA1 unit is for use with PURY-P950-1100YSNW-A2 and PURY-EP950-1100YSNW-A2 units only.

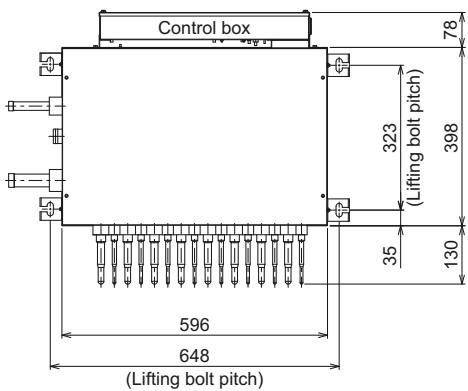
SUB BC CONTROLLERS	CMB-M104V-KB1	CMB-M108V-KB1
NUMBER OF CONNECTIONS	4	8
WEIGHT (KG)	23	31
DIMENSIONS (MM)	Width 596 Depth 476 Height 250	Width 596 Depth 476 Height 250
ELECTRICAL SUPPLY	220-240v, 50Hz	220-240v, 50Hz
PHASE	Single	Single
POWER INPUT (kW)	0.068	0.135
RUNNING CURRENT (A)	0.30	0.59
FUSE RATING (BS88) – HRC (A)	6	6
MAINS CABLE NO. CORES	3	3

Notes: Maximum index of 350 allowable on each Sub BC controller. Up to 11 Sub BC controllers connectable to one system.

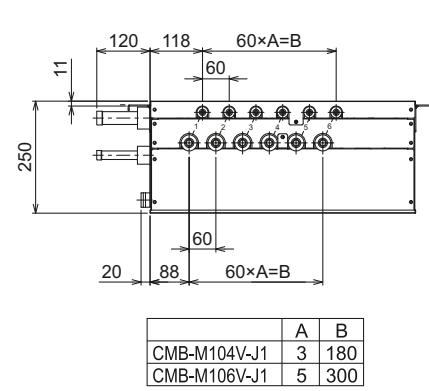
Product Dimensions

CMB-M104/106V-J1

Upper View



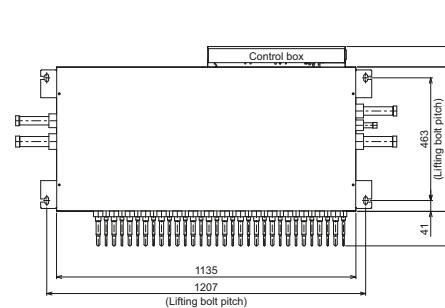
Side View



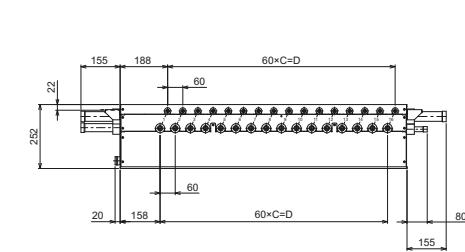
Product Dimensions

CMB-M108/1012/1016V-JA1

Upper View



Side View

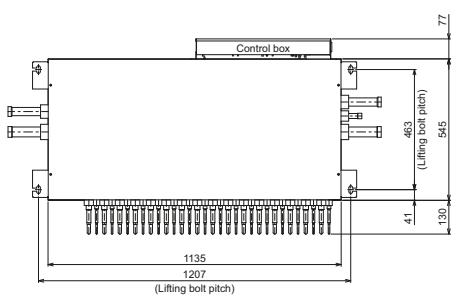


	A	B	C	D
CMB-M108V-JA1	911	983	7	420
CMB-M1012V-JA1	1135	1207	11	660
CMB-M1016V-JA1	1135	1207	15	900

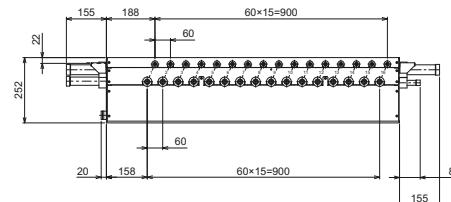
Product Dimensions

CMB-P1016V-KA1

Upper View



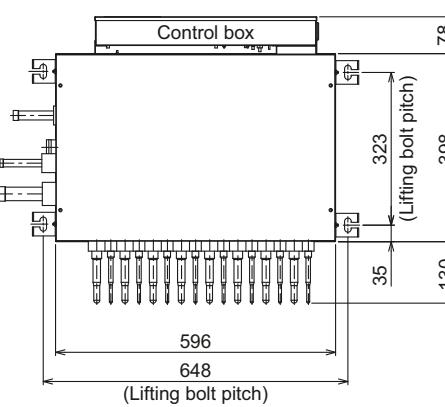
Side View



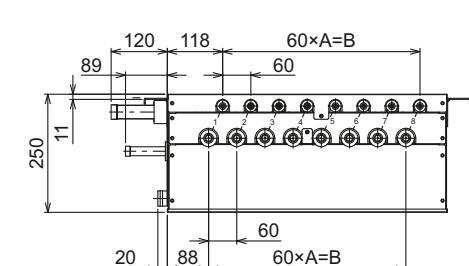
Product Dimensions

CMB-M104/108V-KB1

Upper View



Side View



	A	B
CMB-M104V-KB1	3	180
CMB-M108V-KB1	7	420

BC Controllers With Port Isolation Valves



At the heart of both the R2 and WR2 Series, the BC controller makes simultaneous heating and cooling possible. Improved system efficiency is achieved when energy is transferred intelligently around the building.

Key Features & Benefits

- Allows unique 2-pipe heat recovery application
- Heating and cooling at the same time on smaller systems
- Instructs the heat source unit/outdoor unit on the amount of refrigerant (liquid or gas) that is required to achieve the requested cooling or heating requirements
- Slim profile for more flexible installation
- Easy servicing and maintenance access through underside drain pan
- Brazed connections
- Isolation valves factory-fitted on each port



BC CONTROLLERS with Port Isolation Valves	KS8-CMB-M104V-J1	KS8-CMB-M106V-J1
NUMBER OF CONNECTIONS	4	6
WEIGHT (KG)	29.7	34.1
DIMENSIONS (MM)	Width 596 Depth 476 Height 256	Width 596 Depth 476 Height 256
ELECTRICAL SUPPLY	220-240v, 50Hz	220-240v, 50Hz
PHASE	Single	Single
POWER INPUT (KW)	0.076	0.11
RUNNING CURRENT (A)	0.34	0.48
FUSE RATING (BS88) – HRC (A)	6	6
MAINS CABLE NO. CORES	3	CMB-M106V-J1
BC BOX	CMB-M104V-J1	

Notes: For use with PURY-P200-350YNW-A2, PURY-EP200-350YNW-A2 & PQRY-P200-300YLM-A1 units only. These products are made to order, please consult your local sales office for delivery schedule.

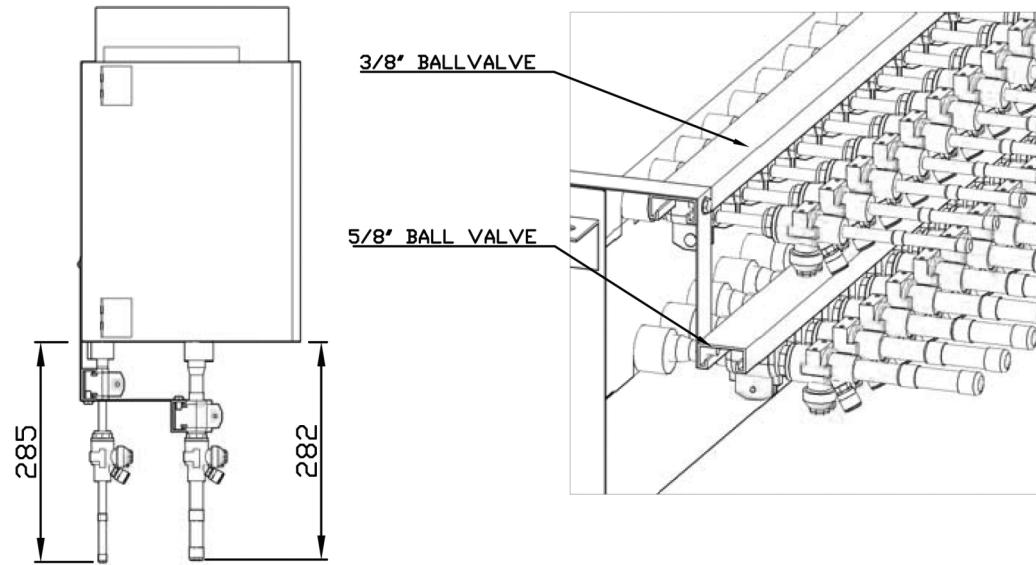
MAIN BC CONTROLLERS with Port Isolation Valves	KS8-CMB-M108V-JA1	KS8-CMB-M1012V-JA1	KS8-CMB-M1016V-JA1	KS8-CMB-P1016V-KA1
NUMBER OF CONNECTIONS	8	12	16	16
WEIGHT (KG)	54.9	70.1	81	82
DIMENSIONS (MM)	Width 911 Depth 622 Height 256	Width 1135 Depth 622 Height 256	Width 1135 Depth 622 Height 256	Width 1135 Depth 622 Height 256
ELECTRICAL SUPPLY	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
PHASE	Single	Single	Single	Single
POWER INPUT (KW)	0.144	0.211	0.279	0.279
RUNNING CURRENT (A)	0.63	0.92	1.22	1.22
FUSE RATING (BS88) – HRC (A)	6	6	6	6
MAINS CABLE NO. CORES	3	3	3	3
BC BOX	CMB-M108V-JA1	CMB-M1012V-JA1	CMB-M1016V-JA1	CMB-P1016V-KA1

Notes: V-JA1 units are for use with PURY-P200-900Y(S)NW-A2, PURY-EP200-900Y(S)NW-A2 & PQRY-P200-900Y(S)LM-A1 units only. V-KA1 unit is for use with PURY-P950-1100YNW-A2 & PURY-EP950-1100YSNW-A2 units only. These products are made to order, please consult your local sales office for delivery schedule.

SUB BC CONTROLLERS with Port Isolation Valves	KS8-CMB-M104V-KB1	KS8-CMB-M108V-KB1
NUMBER OF CONNECTIONS	4	8
WEIGHT (KG)	26.7	37.6
DIMENSIONS (MM)	Width 596 Depth 476 Height 256	Width 596 Depth 476 Height 256
ELECTRICAL SUPPLY	220-240v, 50Hz	220-240v, 50Hz
PHASE	Single	Single
POWER INPUT (KW)	0.068	0.135
RUNNING CURRENT (A)	0.30	0.59
FUSE RATING (BS88) – HRC (A)	6	6
MAINS CABLE NO. CORES	3	3
BC BOX	CMB-M104V-KB1	CMB-M108V-KB1

Notes: Maximum index of 350 allowable on each Sub BC controller. Up to 11 Sub BC controllers connectable to one system. These products are made to order, please consult your local sales office for delivery schedule.

Side View



BC Controllers With Port Isolation Valves & Acoustic Jacket



At the heart of both the R2 and WR2 Series, the BC controller makes simultaneous heating and cooling possible. Improved system efficiency is achieved when energy is transferred intelligently around the building.

Key Features & Benefits

- Allows unique 2-pipe heat recovery application
- Heating and cooling at the same time on smaller systems
- Instructs the heat source unit/outdoor unit on the amount of refrigerant (liquid or gas) that is required to achieve the requested cooling or heating requirements
- Slim profile for more flexible installation
- Easy servicing and maintenance access through underside drain pan
- Brazed connections
- Isolation valves factory-fitted on each port
- Up to 5dBA reduction in sound pressure level with acoustic jacket



BC CONTROLLERS	KS8-KS5-CMB-M104V-J1	KS8-KS5-CMB-M106V-J1
NUMBER OF CONNECTIONS	4	6
WEIGHT (KG)	44.3	48.7
DIMENSIONS (MM)	Width Depth Height	670 760 295
ELECTRICAL SUPPLY	220-240v, 50Hz	220-240v, 50Hz
PHASE	Single	Single
POWER INPUT (KW)	0.076	0.11
RUNNING CURRENT (A)	0.34	0.48
FUSE RATING (BS88) – HRC (A)	6	6
MAINS CABLE NO. CORES	3	3
BC BOX	CMB-M104V-J1	CMB-M106V-J1

Notes: For use with PURY-P200-350YNW-A2, PURY-EP200-350YNW-A2 & PQRY-P200-300YLM-A1 units only. These products are made to order, please consult your local sales office for delivery schedule.

MAIN BC CONTROLLERS	KS8-KS5-CMB-M108V-JA1	KS8-KS5-CMB-M1012V-JA1	KS8-KS5-CMB-M1016V-JA1	KS8-KS5-CMB-P1016V-KA1
NUMBER OF CONNECTIONS	8	12	16	16
WEIGHT (KG)	78.3	98.7	109.6	110.6
DIMENSIONS (MM)	Width Depth Height	970 900 295	1195 900 295	1195 900 295
ELECTRICAL SUPPLY	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
PHASE	Single	Single	Single	Single
POWER INPUT (KW)	0.144	0.211	0.279	0.279
RUNNING CURRENT (A)	0.63	0.92	1.22	1.22
FUSE RATING (BS88) – HRC (A)	6	6	6	6
MAINS CABLE NO. CORES	3	3	3	3
BC BOX	CMB-M108V-JA1	CMB-M1012V-JA1	CMB-M1016V-JA1	CMB-P1016V-KA1

Notes: V-JA1 units are for use with PURY-P200-900Y(S)NW-A2, PURY-EP200-900Y(S)NW-A2 & PQRY-P200-900Y(S)LM-A1 units only. V-KA1 unit is for use with PURY-P950-1100YNW-A2 & PURY-EP950-1100YSNW-A2 units only. These products are made to order, please consult your local sales office for delivery schedule.

SUB BC CONTROLLERS	KS8-KS5-CMB-M104V-KB1	KS8-KS5-CMB-M108V-KB1
NUMBER OF CONNECTIONS	4	8
WEIGHT (KG)	41.3	52.2
DIMENSIONS (MM)	Width Depth Height	670 760 295
ELECTRICAL SUPPLY	220-240v, 50Hz	220-240v, 50Hz
PHASE	Single	Single
POWER INPUT (KW)	0.068	0.135
RUNNING CURRENT (A)	0.30	0.59
FUSE RATING (BS88) – HRC (A)	6	6
MAINS CABLE NO. CORES	3	3
BC BOX	CMB-M104V-KB1	CMB-M108V-KB1

Notes: Maximum index of 350 allowable on each Sub BC controller. Up to 11 Sub BC controllers connectable to one system. These products are made to order, please consult your local sales office for delivery schedule.

BC Controllers With Acoustic Jacket

At the heart of both the R2 and WR2 Series, the BC controller makes simultaneous heating and cooling possible. Improved system efficiency is achieved when energy is transferred intelligently around the building.

Key Features & Benefits

- Allows unique 2-pipe heat recovery application
- Heating and cooling at the same time on smaller systems
- Instructs the heat source unit/outdoor unit on the amount of refrigerant (liquid or gas) that is required to achieve the requested cooling or heating requirements
- Slim profile for more flexible installation
- Easy servicing and maintenance access through underside drain pan
- Brazed connections
- Isolation valves factory-fitted on each port
- Up to 5dBA reduction in sound pressure level with acoustic jacket



BC CONTROLLERS		KS5-CMB-M104V-J1	KS5-CMB-M106V-J1
NUMBER OF CONNECTIONS		4	6
WEIGHT (KG)		40.6	43.6
DIMENSIONS (MM)	Width	670	670
	Depth	570	570
	Height	295	295
ELECTRICAL SUPPLY		220-240v, 50Hz	220-240v, 50Hz
PHASE		Single	Single
POWER INPUT (KW)		0.076	0.11
RUNNING CURRENT (A)		0.34	0.48
FUSE RATING (BS88) – HRC (A)		6	6
MAINS CABLE NO. CORES		3	3

Notes: For use with PURY-P200-350YNW-A2, PURY-EP200-350YNW-A2 & PQRY-P200-300YLM-A1 units only. These products are made to order, please consult your local sales office for delivery schedule.

MAIN BC CONTROLLERS		KS5-CMB-M108V-JA1	KS5-CMB-M1012V-JA1	KS5-CMB-M1016V-JA1	KS5-CMB-P1016V-KA1
NUMBER OF CONNECTIONS		8	12	16	16
WEIGHT (KG)		71.4	88.6	96.6	97.6
DIMENSIONS (MM)	Width	970	1195	1195	1195
	Depth	720	720	720	720
	Height	295	295	295	295
ELECTRICAL SUPPLY		220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
PHASE		Single	Single	Single	Single
POWER INPUT (KW)		0.144	0.211	0.279	0.279
RUNNING CURRENT (A)		0.63	0.92	1.22	1.22
FUSE RATING (BS88) – HRC (A)		6	6	6	6
MAINS CABLE NO. CORES		3	3	3	3

Notes: V-JA1 units are for use with PURY-P200-900Y(S)NW-A2, PURY-EP200-900Y(S)NW-A2 & PQRY-P200-900Y(S)LM-A1 units only. V-KA1 unit is for use with PURY-P950-1100YNW-A2 & PURY-EP950-1100YSNW-A2 units only. These products are made to order, please consult your local sales office for delivery schedule.

SUB BC CONTROLLERS		KS5-CMB-M104V-KB1	KS5-CMB-M108V-KB1
NUMBER OF CONNECTIONS		4	8
WEIGHT (KG)		37.6	45.6
DIMENSIONS (MM)	Width	670	670
	Depth	570	570
	Height	295	295
ELECTRICAL SUPPLY		220-240v, 50Hz	220-240v, 50Hz
PHASE		Single	Single
POWER INPUT (KW)		0.068	0.135
RUNNING CURRENT (A)		0.30	0.59
FUSE RATING (BS88) – HRC (A)		6	6
MAINS CABLE NO. CORES		3	3

Notes: Maximum index of 350 allowable on each Sub BC controller. Up to 11 Sub BC controllers connectable to one system. These products are made to order, please consult your local sales office for delivery schedule.

Refrigerant Detection Systems



KS-GD-01S-B



KS-GD-01W-B White



KS8-IR16CIF-A



KS8-SSFPA

The refrigerant detection systems are designed to detect air conditioning leaks, with the option of providing pump down of City Multi VRF R2 systems.

These systems help safeguard against refrigerant levels exceeding permitted concentration levels and react effectively in the event of leaks.

Key Features & Benefits

- Enables compliance with BS EN378 – Safety of Building Occupants, critical in hotel applications
- Can help achieve recognition within BREEAM Pollution Prevention Assessment, ideal for assisting in the design of modern, sustainable buildings
- Robust and tested leak detection with pump down option
- Flexible refrigerant gas detection systems - semiconductor or infrared, in standalone or cost effective aspirated panel options
- Pump down panel incorporating all elements required for safety and environmental protection along with ease of installation
- Actuated ball valves to isolate refrigerant on pump down
- Alarm system to alert occupants and staff of any leakages

Semiconductor Refrigerant Leak Detection

	DESCRIPTION	MODEL REF.
Semiconductor Sensor	Semiconductor Stand Alone Refrigerant Detector White Semiconductor Stand Alone Refrigerant Detector Silver Transformer 12Vdc Power Supply Transformer 24Vdc Power Supply	KSGD-01W-B KSGD-01S-B KSTR12-J1 KSTR24-J1
Semiconductor Sensor Panel	32 Channel System 64 Channel System	KS8 RAD32-C KS8 RAD64-B
Room Alarm Indicator	Room Alarm Indicator Satin Stainless Steel Room Alarm Indicator White Steel Room Alarm Indicator Polished Brass	KSRA-SS KSRA-WS KSRA-PB
Semiconductor Test Kit	Semiconductor Leak Detector Test Kit	KSGD01-ATK

Infrared Refrigerant Leak Detection

	DESCRIPTION	MODEL REF.
Infrared Stand Alone Sensor	R32 Infrared Stand Alone Refrigerant Detector with Remote Sensor	KSIR-SP01 R32
Infrared Faceplate	Stainless Steel Room Faceplate with Alarm for Aspirated Panel	KS8-SSFPA
Infrared Tubing Ancillaries	100M Drum Sampling Tube for Aspirated Panel (Black) 250M Drum Sampling Tube for Aspirated Panel (Black) Sampling Tube Two Way Manifold for Aspirated Panel End Of Line Filter for Aspirated Panel (Calibration) C/W Bracket	KS8-BST100 KS8-BST250 KS8-ST2M KS8-EF C/W BRACKET
Infrared Aspirated Panel	Infrared Aspirated 8 Channel Refrigerant Detector Panel Infrared Aspirated 16 Channel Refrigerant Detector Panel Infrared Aspirated 32 Channel Refrigerant Detector Panel 8/16/32 Remote Display Unit	KS8-IR8CIF-A KS8-IR16CIF-A KS8-IR32CIF-A KS8-RDU



KSIR-SP01

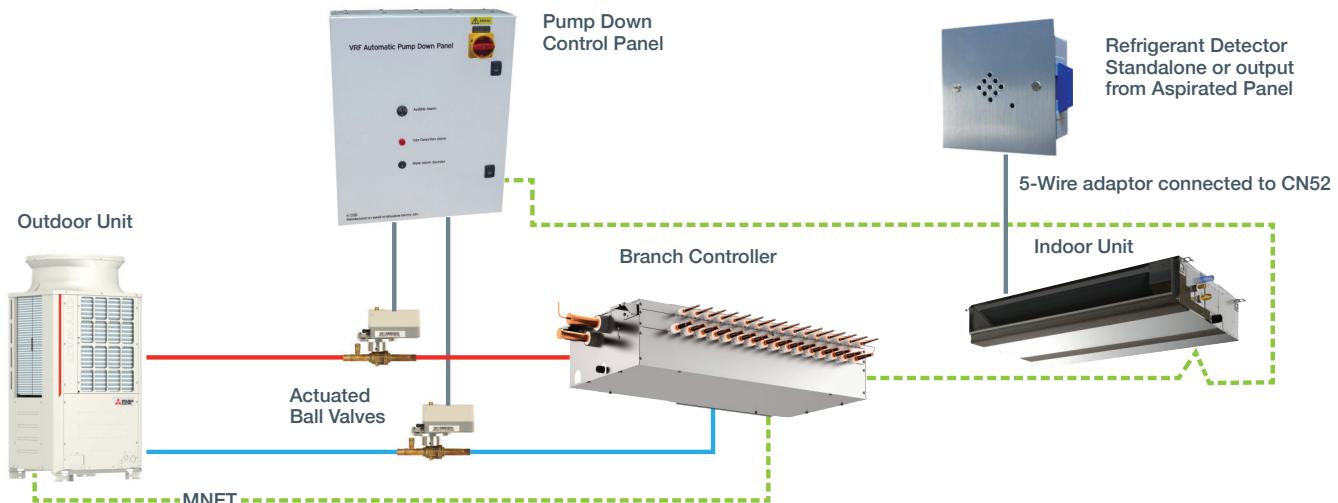


KS8-OC1

Pump Down Systems

	DESCRIPTION	MODEL REF.
City Multi Pump Down Control Panels	City Multi R2 Automatic Pump Down Control Panel 1 Outdoor Unit City Multi R2 Automatic Pump Down Control Panel 2 Outdoor Units City Multi R2 Automatic Pump Down Control Panel 3 Outdoor Units City Multi R2 Automatic Pump Down Control Panel 4 Outdoor Units City Multi R2 Automatic Pump Down Control Panel 5 Outdoor Units City Multi R2 Automatic Pump Down Control Panel 6 Outdoor Units City Multi R2 Automatic Pump Down Control Panel 7 Outdoor Units City Multi R2 Automatic Pump Down Control Panel 8 Outdoor Units	KS8-OC1 KS8-OC2 KS8-OC3 KS8-OC4 KS8-OC5 KS8-OC6 KS8-OC7 KS8-OC8
Actuated Ball Valves for Pump Down Operation	5/8" Actuated Ball Valve 3/4" Actuated Ball Valve 7/8" Actuated Ball Valve 1 1/8" Actuated Ball Valve 1 3/8" Actuated Ball Valve 1 5/8" Actuated Ball Valve	KS8-5/8 ABV KS8-3/4 ABV KS8-7/8 ABV KS8-1.1/8 ABV KS8-1.3/8 ABV KS8-1.5/8 ABV

▼ Installation Example City Multi Pump Down System



It is recommended that system design is completed with your local Mitsubishi Electric Sales Office

Please Note: commissioning is required on pump down systems

City Multi VRF Accessories / Optional Extras

DESCRIPTION	MODEL REF.
Outdoor Units	
Twining kit for PURY-EP/P400-650YSNW-A2	CMY-R100V рр4
Twining kit for PURY-EP/P700-1100YSNW-A2	CMY-R200V рр4
Twining kit for PUHY-P400-650YSNW-A2 / PQHY-P400-600YSLM-A1	CMY-Y100V рр3
Twining kit for PUHY-P700-900YSNW-A2 / PQHY-P650-900YSLM-A1	CMY-Y200V рр2
Twining kit for PUHY-P950-1350YSNW-A2	CMY-Y300V рр3
Twining kit for PQRY-P400-600YSLM-A1	CMY-Q100CBK2
Twining kit for PQRY-P700-900YSLM-A1	CMY-Q200CBK
Fin guard side surfaces S / L modules (2pc) (P200-P450)	PAC-FG01S-E
Fin guard side surfaces XL module (2 pc) (P500/P550)	PAC-FG02S-E
Fin guard rear surface S module (P200-P300)	PAC-FG01B-E
Fin guard rear surface L module (P350-P450)	PAC-FG02B-E
Fin guard rear surface XL module (P500/P550)	PAC-FG03B-E
Branch pipe (joint) for size 200 or below - total capacity of indoor units	CMY-Y102SS-G2
Branch pipe (joint) for size 201-400 - total capacity of indoor units	CMY-Y102LS-G2
Branch pipe (joint) for size 401-650 - total capacity of indoor units or first branch of P400-P650 / EP400-EP600	CMY-Y202S-G2
Branch pipe (joint) for size 651 or above - total capacity of indoor units or first branch of P700-P1250 / EP650-EP900	CMY-Y302S-G2
Branch pipe for 2 branches (PUMY)	CMY-Y62-G-E
Air outlet guide for PUMY-(S)P112-200	PAC-SH96SG-E
Air protect guide for PUMY-(S)P112-200	PAC-SH95AG-E
Drain socket set for PUMY-(S)P112-200	PAC-SG61DS-E
Air outlet guide for PUMY-P250/300	PAC-SK22SG-E
Air protect guide for PUMY-P250/300	PAC-SK21AG-E
Drain socket set for PUMY-P250/300	PAC-SK27DS-E
Differential pressure switch for PQRY-P200-300YLM-A1 / PQHY-P200-300YLM-A1	KS10-EP100S
Ceiling Concealed Ducted Units	
Long life filter for PEFY-P80VMHS-E	PAC-KE88LAF
Long life filter for PEFY-P100-140VMHS-E	PAC-KE89LAF
Long life filter for PEFY-P200-250VMHS-E	PAC-KE85LAF
Filter box for PEFY-P80VMHS-E (necessary when long life filter is used)	PAC-KE99TB
Filter box for PEFY-P100-140VMHS-E (necessary when long life filter is used)	PAC-KE140TB-F
Filter box for PEFY-P200-250VMHS-E (necessary when long life filter is used)	PAC-KE250TB-F
Plasma Quad Connect air purifying device for PEFY-P-VMS1-E / PEFY-M-VMA-A1	MAC-100FT-E
Plasma Quad Connect metal fitment for PEFY-P-VMS1-E	PAC-HA11PAR
Plasma Quad Connect metal fitment for PEFY-M-VMA-A1	PAC-HA31PAR

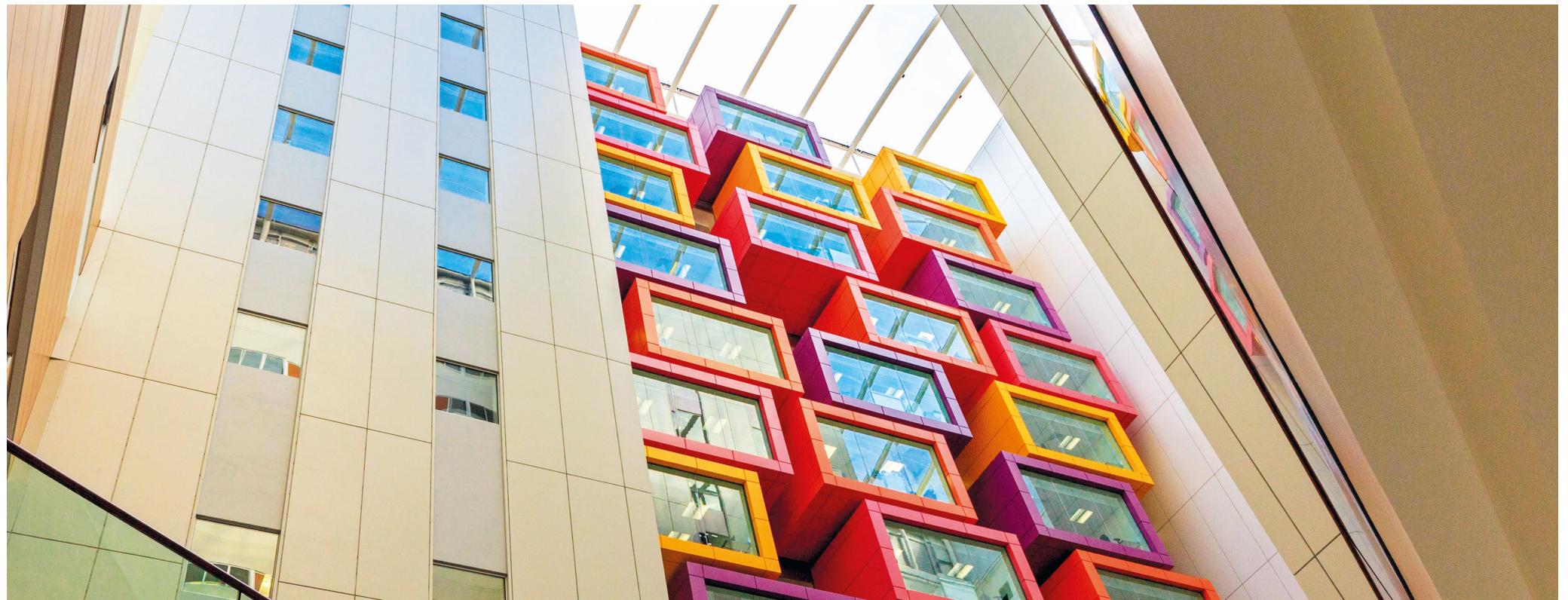
City Multi VRF Accessories / Optional Extras

DESCRIPTION	MODEL REF.
4-Way Blow Cassette Units	
Grille for PLFY-P-VFM-E	SLP-2FA
3D i-see sensor grille for PLFY-P-VFM-E	SLP-2FAE
Grille for PLFY-M-VEM6-E	PLP-6EA
Black grille (Satin finish) for PLFY-M-VEM6-E	PLP-6EA-B
3D i-see sensor grille for PLFY-M-VEM6-E	PLP-6EAE
Self elevating grille for PLFY-M-VEM6-E	PLP-6EAJ
Corner panel with i-see sensor for PLFY-M-VEM6-E	PAC-SE1ME-E
Corner panel with signal receiver for PLFY-M-VEM6-E	PAR-SE9FA-E
Shutter plate for PLFY-M-VEM6-E	PAC-SJ37SP-E
Multi-function casement for PLFY-M-VEM6-E	PAC-SJ41TM-E
High efficiency filter for PLFY-M-VEM6-E (must be used with PAC-SJ41TM-E)	PAC-SH59KF-E
V Blocking air purifying filter for PLFY-M-VEM6-E	PAC-SK53KF-E
V Blocking air purifying filter for PLFY-P-VFM-E	PAC-SK54KF-E
Plasma Quad Connect air purifying device (x1) with multi-function casement for PLFY-M-VEM6-E	PAC-SK51FT-E
Wall Mounted Units	
Plasma Quad Connect air purifying device for PKFY-P-VLM-E/VKM-E	MAC-100FT-E
BC Controllers	
Joint pipe	CMY-R160-J1
Joint and reducer for connection to Sub BC Controllers (P200-P650 OU)	CMY-R101S-G
Joint and reducer for connection to Sub BC Controllers (P700-P1100 OU)	CMY-R102S-G
Indoor Units	
Remote temperature sensor	PAC-SE41TS-E
Discreet remote temperature sensor	KS9-BS1-A
LEV kit interface	PAC-LV11M
VRF Sanitary Water Heater	
Controller	PAR-W21MAA-J



City Multi Hybrid VRF

The Modern Alternative





Contents

R32 Heat Recovery Outdoor Units

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R410A Water Cooled Condensing Units

WR2 Series Heat Recovery (22.4-56kW)	1.6.10
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Indoor Units

PEFY-WP-VMS1-E Ultra Thin Ceiling Concealed Ducted	1.6.12
PEFY-WP-VMA-E Ceiling Concealed Ducted	1.6.14
PLFY-WL-VEM-E 4-Way Blow Ceiling Cassette	1.6.16
PLFY-WL-VFM-E 600x600 4-Way Blow Ceiling Cassette	1.6.18
PFFY-WP-VLRMM-E Floor Standing Concealed	1.6.20
PKFY-WL-VLM-E / VKM-E Wall Mounted	1.6.22

HBC Controllers

1.6.24

Accessories / Optional Extras

1.6.26

CITY MULTI

Energy Efficient HVRF Systems

R32 | HybridVRF

Hybrid VRF (HVRF) - The Modern Alternative

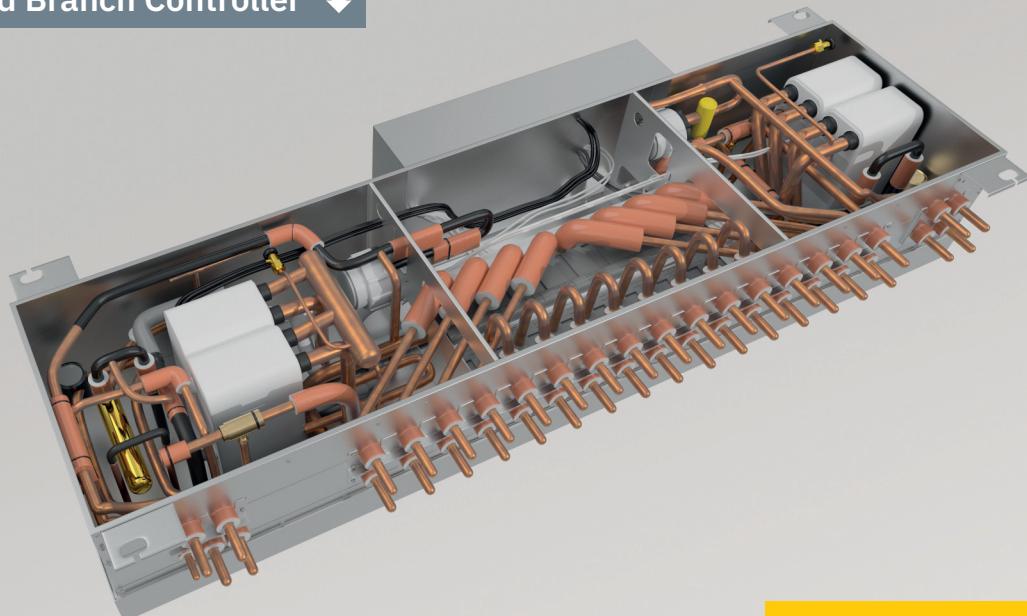
The award-winning City Multi Hybrid VRF is a totally unique 2-pipe heat recovery VRF system, whereby the outdoor unit is connected to a Hybrid Branch Controller (HBC) and water pipework is used between the HBC and indoor units.

You can install and design it as VRF whilst enjoying the features of a Chiller system, providing a complete and modern solution for office buildings, hotels, medical centres, schools, high rise buildings, shopping centres and other commercial premises. Built and assembled in the same factory as our VRF units, it therefore carries City Multi's distinctive DNA in terms of technology, efficiency and reliability.

Hybrid VRF is quick, easy and flexible to design and install using the same control and network as VRF systems. The decentralised system means phased installation is possible with the same high levels of seasonal efficiency expected with VRF.

With water pipework connecting the indoor units, Hybrid VRF provides comfortable and stable air temperature control with no refrigerant in occupied spaces, meaning simple compliance to BS EN378 and removing the need for leak detection. By lowering the total amount of refrigerant in the system, this also lowers the embodied carbon of Hybrid VRF, when compared to a standard system.

Hybrid Branch Controller ↓



hybridVRF.co.uk



Outdoor / Condensing Unit Range

Heat Recovery - R2 Series	P (kW)	200	250	300	350	400	450	500
High Efficiency PURY-EM (YNW) 		S	S	S	L	L	L	XL
Standard Efficiency PURY-M (YNW) 		S	S	S	L	L	L	XL
Heat Recovery - WR2 Series	P (kW)	200	250	300	350	400	450	500
PQRY-P (YLM) 								

Air Cooled ↑

Water Cooled ↓

 Small chassis  Large chassis  Extra Large chassis

Indoor Unit Range

Model	Range	P (kW)	10	15	20	25	32	40	50	63	80
Ceiling Concealed Ducted	PEFY-WP-VMS1-E (Ultra Thin) 										
	PEFY-WP-VMA-E 										
4-Way Blow Ceiling Cassette	PLFY-WL-VEM-E 										
	PLFY-WL-VFM-E (600 x 600) 										
Floor Standing	PFFY-WP-VLRMM-E 										
Wall Mounted	PKFY-WL-VLM-E / VKM-E 										

R2 Series HVRF High Efficiency (22.4-56kW)

Simultaneous Heating and Cooling with Heat Recovery Outdoor Unit



Delivering outstanding Seasonal Energy Efficiency, the award-winning City Multi R2 Series HVRF High Efficiency system provides simultaneous heating and cooling, with the added benefit of heat recovery. By utilising lower GWP R32 refrigerant, the **PURY-EM** helps businesses achieve their Corporate Social Responsibility targets, as well as future-proof their buildings and equipment.

Key Features & Benefits

- High efficiency system delivers outstanding seasonal energy performance
- Heat recovery achieves energy savings of up to 30% over heat pump systems
- Adjustable noise level options to suit application
- No refrigerant in occupied spaces, removing the need for leak detection under BS EN378
- Decentralised system allows for phased installation - ideal for Cat A to Cat B fit-outs



OUTDOOR UNITS	PURY-EM200YNW-A1	PURY-EM250YNW-A1	PURY-EM300YNW-A1	PURY-EM300YNW-A1 X 2HBC	PURY-EM350YNW-A1	PURY-EM350YNW-A1 X 2HBC	PURY-EM400YNW-A1	PURY-EM450YNW-A1	PURY-EM500YNW-A1	
CAPACITY (kW)	Heating (nominal max)	25.0	31.5	37.5	37.5	45.0	45.0	50.0	56.0	63.0
	Cooling (nominal)	22.4	28.0	33.5	33.5	40.0	40.0	45.0	50.0	56.0
	High Performance Heating (UK)	25.0	31.5	37.5	37.5	42.8	42.8	47.5	50.4	58.0
	COP Priority Heating (UK)	22.8	28.7	32.3	32.3	38.7	38.7	43.0	49.3	54.8
	Cooling (UK)	20.1	25.1	30.0	30.0	35.8	35.8	40.3	44.8	50.1
POWER INPUT (kW)	Heating (nominal max)	6.23	8.84	10.46	9.93	13.10	12.16	13.88	15.77	17.45
	Cooling (nominal)	5.13	7.69	10.03	8.52	13.91	11.33	13.84	15.24	18.06
	High Performance Heating (UK)	7.54	10.70	14.33	13.60	17.95	16.66	16.10	18.29	20.24
	COP Priority Heating (UK)	6.23	8.84	10.46	9.93	13.10	12.16	13.46	15.30	16.93
	Cooling (UK)	2.98	4.46	5.82	4.94	8.07	6.57	8.87	9.77	11.58
COP / EER (nominal max)	4.01 / 4.36	3.56 / 3.64	3.58 / 3.33	3.77 / 3.93	3.43 / 2.87	3.70 / 3.53	3.60 / 3.25	3.55 / 3.28	3.61 / 3.10	
MAX No. OF CONNECTABLE INDOOR UNITS	30	37	45	45	35	35	40	45	50	
MAX CONNECTABLE CAPACITY	50-150% OU Capacity	50-150% OU Capacity	50-150% OU Capacity	50-150% OU Capacity	50-150% OU Capacity	50-150% OU Capacity	50-150% OU Capacity	50-150% OU Capacity	50-150% OU Capacity	
AIRFLOW (m³/min)	High	170	185	240	240	250	250	315	315	295
PIPE SIZE mm (in)	Gas	19.05 (3/4")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")
	Liquid	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")
SOUND PRESSURE LEVEL (dBA)	Heating / Cooling	59.0 / 59.0	61.0 / 60.5	67.0 / 61.0	67.0 / 61.0	64.0 / 62.5	64.0 / 62.5	69.0 / 65.0	70.0 / 65.5	64.5 / 63.5
SOUND POWER LEVEL (dBA)	Heating / Cooling	78.0 / 76.0	80.0 / 78.5	86.5 / 80.0	86.5 / 80.0	83.0 / 81.0	83.0 / 81.0	88.0 / 83.0	89.0 / 83.0	84.0 / 82.0
WEIGHT (kg)		231	231	231	231	276	276	280	305	348
DIMENSIONS (mm)	Width	920	920	920	920	1240	1240	1240	1240	1750
	Depth	740	740	740	740	740	740	740	740	740
(1798mm without legs) Height		1858	1858	1858	1858	1858	1858	1858	1858	1858
ELECTRICAL SUPPLY ¹	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE ¹	Three	Three	Three	Three	Three	Three	Three	Three	Three	Three
STARTING CURRENT (A) ¹	8	8	8	8	8	8	8	8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A) ¹ Heating/Cooling [MAX]	9.9 / 8.2 [16.1]	14.1 / 12.3 [21.8]	16.7 / 16.0 [23.9]	15.9 / 13.6 [23.9]	21.0 / 22.3 [30.0]	19.5 / 18.1 [30.0]	22.2 / 22.1 [35.9]	25.2 / 24.4 [36.9]	27.9 / 28.9 [46.9]	
GUARANTEED OPERATING RANGE (°C) Heating / Cooling	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52
FUSE RATING (MCB sizes BS EN 60947-2) - (A) ¹	1 x 20	1 x 25	1 x 25	1 x 25	1 x 32	1 x 32	1 x 40	1 x 40	1 x 50	
MAINS CABLE No. Cores ¹	4	4	4	4	4	4	4	4	4	
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	5.2 / 3.5	5.2 / 3.5	5.2 / 3.5	5.2 / 3.5	8 / 5.4	8 / 5.4	8 / 5.4	10.8 / 7.3	10.8 / 7.3	
R32 (GWP 675)										
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	13.5 / 9.1	13.5 / 9.1	15.5 / 10.5	15.5 / 10.5	15.5 / 10.5	15.5 / 10.5	19.5 / 13.2	19.5 / 13.2	19.5 / 13.2	
R32 (GWP 675)										

Notes: *SEER/SCOP available separately in the 'City Multi HVRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.

Nominal Conditions: Cooling: indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB. Nominal Max Conditions: Heating: indoor 20°C DB; outdoor 7°C DB, 6°C WB.

UK Conditions: Cooling: indoor 21°C DB, 15°C WB; outdoor 27°C DB. UK Conditions: Heating: indoor 20°C DB, outdoor 0°C DB, -1°C WB.

*1 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules. Specification subject to change.

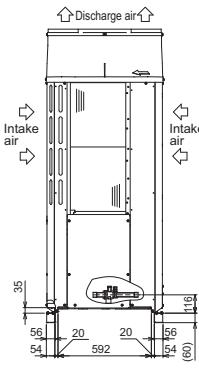
R410A equivalent systems are also available - please contact your local sales office for further information.

R32 | HybridVRF

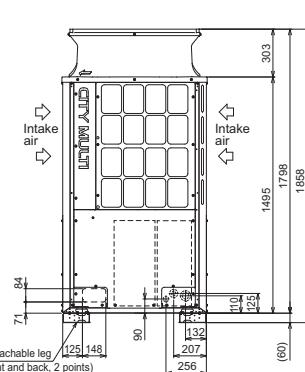
Product Dimensions

PURY-EM200/250/300YNW-A1

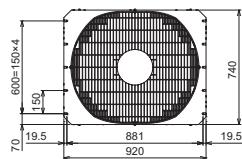
Side View



Front View



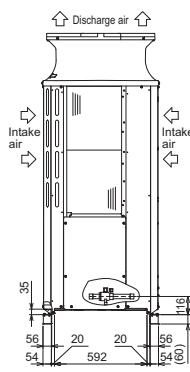
Upper View



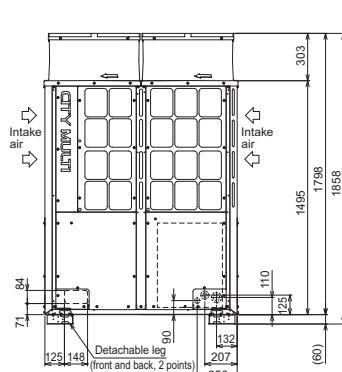
Product Dimensions

PURY-EM350/400/450YNW-A1

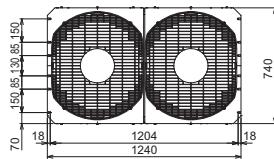
Side View



Front View



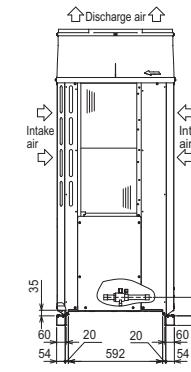
Upper View



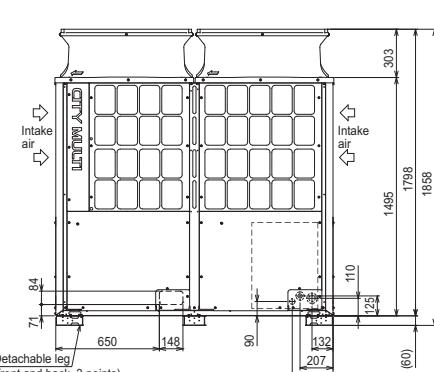
Product Dimensions

PURY-EM500YNW-A1

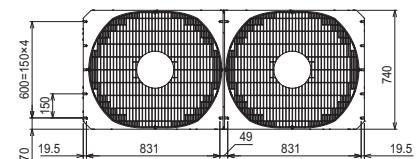
Side View



Front View



Upper View



R2 Series HVRF Standard Efficiency (22.4-56kW)

Simultaneous Heating and Cooling with Heat Recovery Outdoor Unit



The award-winning City Multi R2 Series HVRF Heat Recovery system meets the demand for simultaneous heating and cooling, with the added benefit of heat recovery. By utilising lower GWP R32 refrigerant, the **PURY-M** helps businesses achieve their Corporate Social Responsibility targets, as well as future-proof their buildings and equipment.

Key Features & Benefits

- Heat recovery achieves energy savings of up to 30% over heat pump systems
- Provides simultaneous heating and cooling with a high level of thermal comfort
- Adjustable noise level options to suit application
- No refrigerant in occupied spaces, removing the need for leak detection under BS EN378
- Decentralised system allows for phased installation - ideal for Cat A to Cat B fit-outs



OUTDOOR UNITS		PURY-M200YNW-A1	PURY-M250YNW-A1	PURY-M300YNW-A1	PURY-M300YNW-A1 X 2HBC	PURY-M350YNW-A1	PURY-M350YNW-A1 X 2HBC	PURY-M400YNW-A1	PURY-M450YNW-A1	PURY-M500YNW-A1	
CAPACITY (kW)		Heating (nominal max)	25.0	31.5	37.5	37.5	45.0	45.0	45.0	56.0	63.0
		Cooling (nominal)	22.4	28.0	33.5	33.5	40.0	40.0	45.0	50.0	56.0
		High Performance Heating (UK)	25.0	31.5	37.5	37.5	42.8	42.8	42.8	50.4	58.0
		COP Priority Heating (UK)	22.8	28.7	32.3	32.3	38.7	38.7	38.7	49.3	54.8
		Cooling (UK)	20.1	25.1	30.0	30.0	35.8	35.8	40.3	44.8	50.1
POWER INPUT (kW)		Heating (nominal max)	6.39	9.15	11.00	10.33	13.14	12.16	14.08	16.18	18.26
		Cooling (nominal)	5.53	8.40	11.65	9.88	14.93	12.15	15.15	15.47	22.25
		High Performance Heating (UK)	7.73	11.07	15.07	14.15	18.00	16.66	16.33	18.77	21.18
		COP Priority Heating (UK)	6.39	9.15	11.00	10.33	13.14	12.16	13.66	15.69	17.71
		Cooling (UK)	3.21	4.87	6.76	5.73	8.66	7.05	9.71	9.92	14.26
COP / EER (nominal max)		3.91 / 4.05	3.44 / 3.33	3.40 / 2.87	3.63 / 3.39	3.42 / 2.67	3.70 / 3.29	3.55 / 2.97	3.46 / 3.23	3.45 / 2.51	
MAX NO. OF CONNECTABLE INDOOR UNITS		30	37	45	45	35	35	40	45	50	
MAX CONNECTABLE CAPACITY		50-150% OU Capacity	50-150% OU Capacity	50-150% OU Capacity	50-150% OU Capacity	50-150% OU Capacity	50-150% OU Capacity	50-150% OU Capacity	50-150% OU Capacity	50-150% OU Capacity	
AIRFLOW (m³/min)	High	170	185	240	240	250	250	315	315	295	
PIPE SIZE mm (in)	Gas	19.05 (3/4")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")	
	Liquid	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	
SOUND PRESSURE LEVEL (dBA)	Heating / Cooling	59.0 / 59.0	61.0 / 60.5	67.0 / 61.0	67.0 / 61.0	64.0 / 62.5	64.0 / 62.5	69.0 / 65.0	70.0 / 65.5	64.5 / 63.5	
SOUND POWER LEVEL (dBA)	Heating / Cooling	78.0 / 76.0	80.0 / 78.5	86.5 / 80.0	86.5 / 80.0	83.0 / 81.0	83.0 / 81.0	88.0 / 83.0	89.0 / 83.0	84.0 / 82.0	
WEIGHT (kg)		227	227	227	227	270	270	273	293	337	
DIMENSIONS (mm)	Width	920	920	920	920	1240	1240	1240	1240	1750	
	Depth	740	740	740	740	740	740	740	740	740	
(1798mm without legs)	Height	1858	1858	1858	1858	1858	1858	1858	1858	1858	
ELECTRICAL SUPPLY ¹		380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	
PHASE ¹		Three	Three	Three	Three	Three	Three	Three	Three	Three	
STARTING CURRENT (A) ¹		8	8	8	8	8	8	8	8	8	
NOMINAL SYSTEM RUNNING CURRENT (A) ¹ Heating/Cooling [MAX]		10.2 / 8.8 [16.1]	14.6 / 13.4 [22.5]	17.6 / 18.6 [25.6]	16.5 / 15.8 [25.6]	21.0 / 23.9 [31.6]	19.5 / 19.4 [31.6]	22.5 / 24.2 [39.3]	25.9 / 24.8 [40.2]	29.2 / 35.6 [56.6]	
GUARANTEED OPERATING RANGE (°C) Heating / Cooling		-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	
FUSE RATING (MCB sizes BS EN 60947-2) - (A) ¹		1 x 20	1 x 25	1 x 32	1 x 32	1 x 32	1 x 32	1 x 40	1 x 50	1 x 63	
MAINS CABLE No. Cores ¹		4	4	4	4	4	4	4	4	4	
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675)	5.2 / 3.5	5.2 / 3.5	5.2 / 3.5	5.2 / 3.5	8 / 5.4	8 / 5.4	8 / 5.4	10.8 / 7.3	10.8 / 7.3	
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675)	13.5 / 9.1	13.5 / 9.1	15.5 / 10.5	15.5 / 10.5	15.5 / 10.5	15.5 / 10.5	19.5 / 13.2	19.5 / 13.2	19.5 / 13.2	

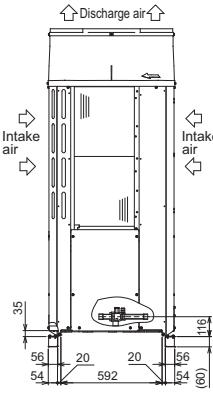
Notes: *SEER/SCOP available separately in the 'City Multi HVRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.
Nominal Conditions: Cooling; indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB. Nominal Max Conditions: Heating; indoor 20°C DB; outdoor 7°C DB, 6°C WB.
UK Conditions: Cooling; indoor 21°C DB, 15°C WB; outdoor 27°C DB. UK Conditions: Heating; indoor 20°C DB, outdoor 0°C DB, -1°C WB.

*1 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules. Specification subject to change.
R410A equivalent systems are also available - please contact your local sales office for further information.

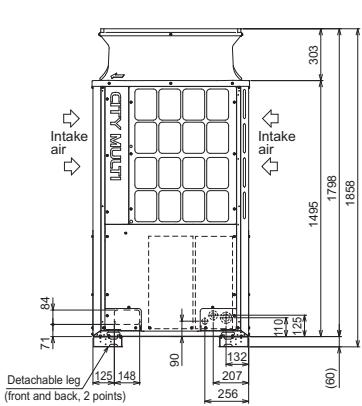
Product Dimensions

PURY-M200/250/300YNW-A1

Side View



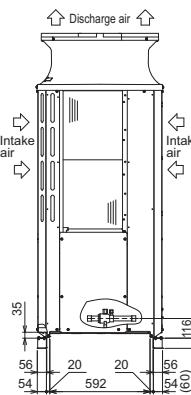
Front View



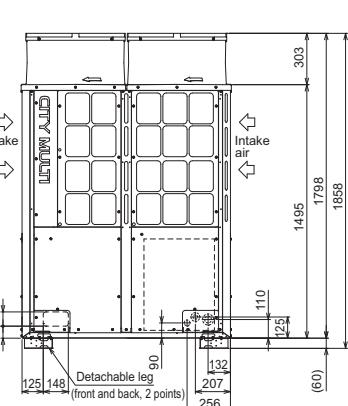
Product Dimensions

PURY-M350/400/450YNW-A1

Side View



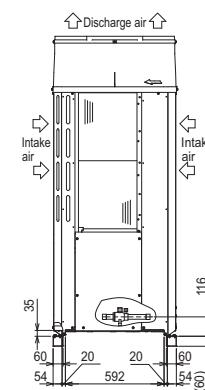
Front View



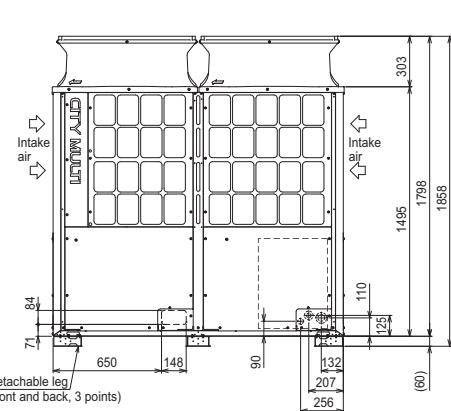
Product Dimensions

PURY-M500YNW-A1

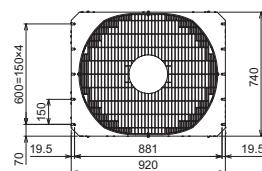
Side View



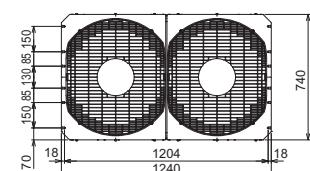
Front View



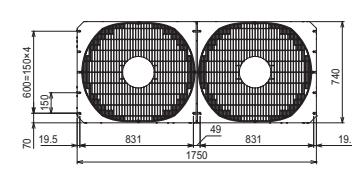
Upper View



Upper View



Upper View



WR2 Series HVRF (22.4-56kW)

**Simultaneous Heating and Cooling
with Double Heat Recovery,
Water Cooled Condensing Unit**



The City Multi **WR2** Series HVRF Heat Recovery system is ideal where a water loop is available and outdoor space is limited. These models utilise water instead of air as the energy transfer medium, and benefit from all of the same technology and flexibility as air sourced VRF systems. City Multi WR2 systems provide the ultimate solution for a breadth of applications requiring simultaneous heating and cooling, including hotels, offices, leisure, retail and high-end residential.

Key Features & Benefits

- High efficiency, modular systems, with ability to recover energy between units on the water circuit, in either a closed or open loop building, or ground source application
- Able to utilise waste heat from commercial sources such as server cooling, or renewable heat from landlord loops, rivers, lakes or geothermal sources
- Very low impact footprint and service space requirements, ideal for internal location
- Provides continuous heating in winter, without the need for defrost operation



CONDENSING UNITS	PQRY-P 200YLM-A1	PQRY-P250YLM-A1	PQRY-P300YLM-A1	PQRY-P300YLM-A1 (2 X MAIN)	PQRY-P350YLM-A1	PQRY-P350YLM-A1 (2 X MAIN)	PQRY-P400YLM-A1	PQRY-P400YLM-A1	PQRY-P450YLM-A1	PQRY-P500YLM-A1
CAPACITY (kW)	Heating (nominal max)	25.0	31.5	37.5	37.5	45.0	45.0	50.0	56.0	63.0
	Cooling (nominal)	22.4	28.0	33.5	33.5	40.0	40.0	45.0	50.0	56.0
POWER INPUT (kW)	Heating (nominal max)	4.04	5.41	7.13	6.79	8.87	8.25	9.45	11.11	13.07
	Cooling (nominal)	3.97	5.44	7.55	6.71	9.98	8.72	10.05	12.05	14.58
OPERATING WATER VOLUME (m³/h)	3.0 ~ 7.2	3.0 ~ 7.2	3.0 ~ 7.2	3.0 ~ 7.2	4.5 ~ 11.6	4.5 ~ 11.6	4.5 ~ 11.6	4.5 ~ 11.6	4.5 ~ 11.6	4.5 ~ 11.6
GUARANTEED OPERATING RANGE (°C) Heating / Cooling	-5~45 / -5~45	10~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45
COP / EER (nominal max)	6.18 / 5.64	5.82 / 5.14	5.25 / 4.43	5.52 / 4.99	5.07 / 4.00	5.45 / 4.58	5.29 / 4.47	5.04 / 4.14	4.82 / 3.84	
MAX NO. OF CONNECTABLE INDOOR UNITS	20	25	30	30	35	35	40	45	50	
MAX CONNECTABLE CAPACITY	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%
PIPE SIZE mm (in)	Gas 19.05 (3/4") Liquid 15.88 (6/8")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	28.58 (1 1/8")	28.58 (1 1/8")	28.58 (1 1/8")	28.58 (1 1/8")	28.58 (1 1/8")	28.58 (1 1/8")
SOUND PRESSURE LEVEL (dBA)	46	48	54	54	52	52	52	54	54	54
SOUND POWER LEVEL (dBA)	60	62	68	68	66	66	66	70	70	70.5
WEIGHT (kg)	173	173	173	173	217	217	217	217	217	217
DIMENSIONS (mm)	Width 880	880	880	880	880	880	880	880	880	880
	Depth 550	550	550	550	550	550	550	550	550	550
	Height 1100	1100	1100	1100	1450	1450	1450	1450	1450	1450
ELECTRICAL SUPPLY*1	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE*1	Three	Three	Three	Three	Three	Three	Three	Three	Three	Three
STARTING CURRENT (A)	8	8	8	8	8	8	8	8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A)*1 Heating / Cooling [MAX]	6.4 / 6.3 [16.1]	8.6 / 8.7 [16.1]	11.4 / 12.1 [18.6]	10.8 / 10.7 [18.6]	14.2 / 16.0 [23.1]	13.2 / 13.9 [23.1]	15.1 / 16.1 [27.6]	17.8 / 19.3 [32.9]	20.9 / 23.3 [39.2]	
FUSE RATING (BS88) - HRC (A)*1	1 x 20	1 x 20	1 x 20	1 x 20	1 x 25	1 x 25	1 x 32	1 x 40	1 x 40	
MAINS CABLE No. Cores*1	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) R410A (GWP 2088)	5.0 / 10.4	5.0 / 10.4	5.0 / 10.4	5.0 / 10.4	6.0 / 12.5	6.0 / 12.5	6.0 / 12.5	6.0 / 12.5	6.0 / 12.5	6.0 / 12.5
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) R410A (GWP 2088)	28.0 / 58.5	30.0 / 62.6	31.0 / 64.7	31.0 / 64.7	46.0 / 96.1	46.0 / 96.1	47.0 / 98.1	47.0 / 98.1	48.0 / 100.2	

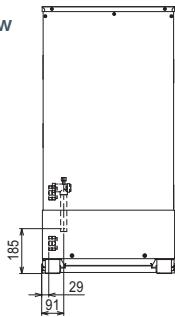
Notes: *SEER/SCOP available separately in the 'City Multi HVRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.
PQRY-P-YLM-A1 units are not compatible with CMB-VM350/500-AA vertical HBC controllers.

*1 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

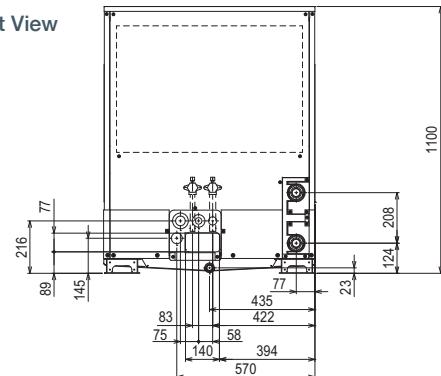
Product Dimensions

PQRY-P200/250/300YLM-A1

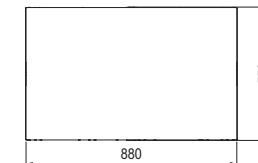
Side View



Front View



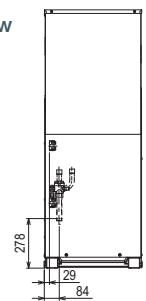
Upper View



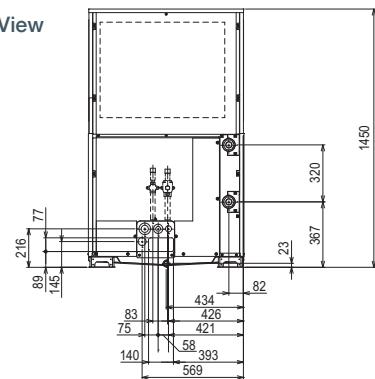
Product Dimensions

PQRY-P350/400/450/500YLM-A1

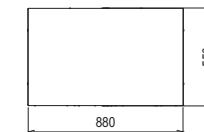
Side View



Front View



Upper View



PEFY-WP-VMS1-E

Ultra Thin Ceiling Concealed Ducted Indoor Unit



The **PEFY-WP-VMS1-E** ceiling concealed ducted indoor unit connects to the Hybrid Branch Controller and uses water as the heat transfer medium. It has been designed with an ultra thin, slimline body, specifically for applications where ceiling void space is limited. With an extremely quiet operation, these units are ideal for applications such as hotel rooms.

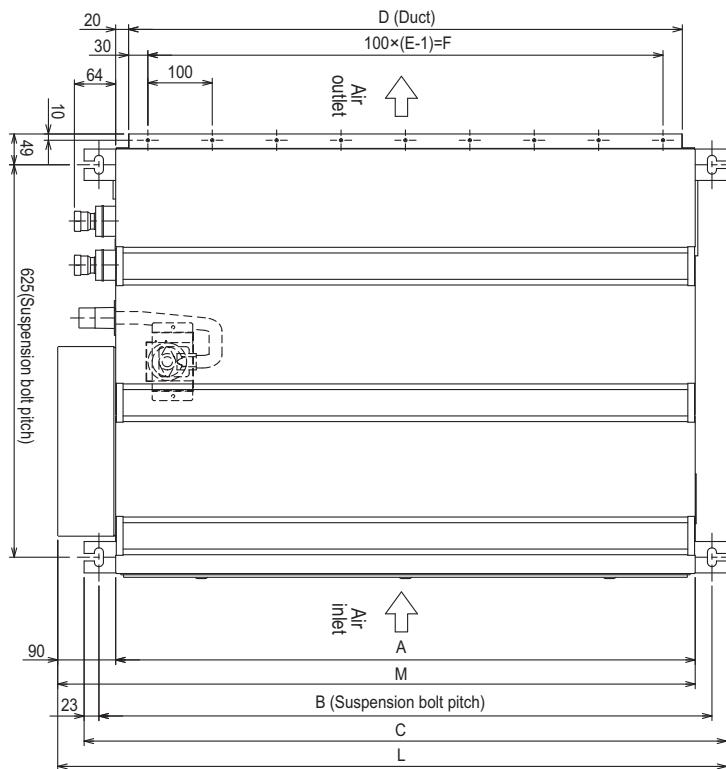
Key Features & Benefits

- Ultra thin body allowing installation in smaller spaces - height of only 200mm & width of only 790mm (size WP10-25)
- Extremely quiet operation for minimal disturbance - as low as 22dBA (size WP10-20)
- External static pressure of 5-50Pa, allowing flexibility of design and application
- Available in 1.1 and 1.5kW sizes, which are ideal for hotel rooms
- No refrigerant in occupied spaces, removing the need for leak detection under BS EN378
- Higher air off temperatures than standard VRF, allowing for improved comfort levels
- Compatible with Plasma Quad Connect - an innovative, bolt-on air purifying device which neutralises viruses, bacteria, allergens, PM2.5, mould and dust. For more information, please refer to page 1.1.7

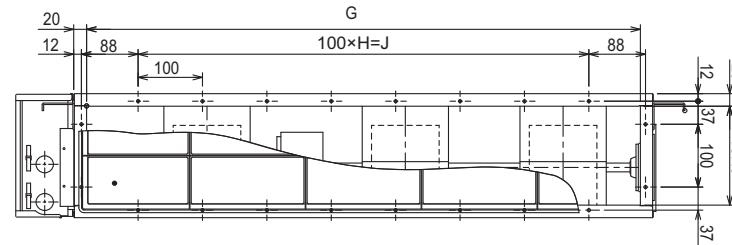
INDOOR UNITS		PEFY-WP10VMS1-E	PEFY-WP15VMS1-E	PEFY-WP20VMS1-E	PEFY-WP25VMS1-E	PEFY-WP32VMS1-E	PEFY-WP40VMS1-E	PEFY-WP50VMS1-E
CAPACITY (kW)	Heating (nominal)	1.4	1.9	2.5	3.2	4.0	5.0	6.3
	Cooling (nominal)	1.2	1.7	2.2	2.8	3.6	4.5	5.6
UK Heating	1.4	1.9	2.5	3.2	4.0	5.0	6.3	
UK Total Cooling - Hi (Sensible)	1.10 (1.00)	1.50 (1.50)	2.00 (1.70)	2.50 (2.00)	3.20 (2.70)	4.00 (3.20)	5.00 (4.00)	
UK Total Cooling - M12	-	-	-	-	-	-	-	
UK Total Cooling - M11	1.07	1.44	1.89	2.32	3.03	3.82	4.78	
UK Total Cooling - Lo	1.03	1.34	1.76	2.08	2.88	3.61	4.51	
POWER INPUT (kW)	Heating (nominal)	0.03	0.03	0.03	0.04	0.05	0.07	0.07
	Cooling (nominal)	0.03	0.05	0.05	0.06	0.07	0.09	0.09
AIRFLOW (l/s)	Lo-Mi-Hi	67-75-83	83-100-117	92-108-133	92-117-150	133-150-183	158-183-217	200-233-275
EXTERNAL STATIC PRESSURE (Pa)	5-15-35-50	5-15-35-50	5-15-35-50	5-15-35-50	5-15-35-50	5-15-35-50	5-15-35-50	5-15-35-50
SOUND PRESSURE LEVEL (dBA)	Lo-Mi-Hi	22-23-25	22-24-28	22-25-29	23-26-30	28-30-33	30-32-35	30-33-36
WEIGHT (kg)	19	19	20	20	25	25	27	
DIMENSIONS (mm)	Width	790	790	790	790	990	990	1190
	Depth	700	700	700	700	700	700	700
	Height	200	200	200	200	200	200	200
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
PHASE	Single	Single	Single	Single	Single	Single	Single	Single
RUNNING CURRENT (A) Heating / Cooling	0.21 / 0.21	0.33 / 0.44	0.38 / 0.49	0.40 / 0.51	0.50 / 0.61	0.62 / 0.73	0.66 / 0.77	
FUSE RATING (BS88) - HRC (A)	6	6	6	6	6	6	6	
MAINS CABLE No. Cores	3	3	3	3	3	3	3	
WATER PIPE CONNECTION	3/4" BSP SCREW	3/4" BSP SCREW	3/4" BSP SCREW	3/4" BSP SCREW	3/4" BSP SCREW	3/4" BSP SCREW	3/4" BSP SCREW	3/4" BSP SCREW

Note: HRV indoor units can only be configured with the CMB-WM HBC (HRV) and PURY-(E)M YNW-A1 or PQRY-P YLM-A1 outdoor units.

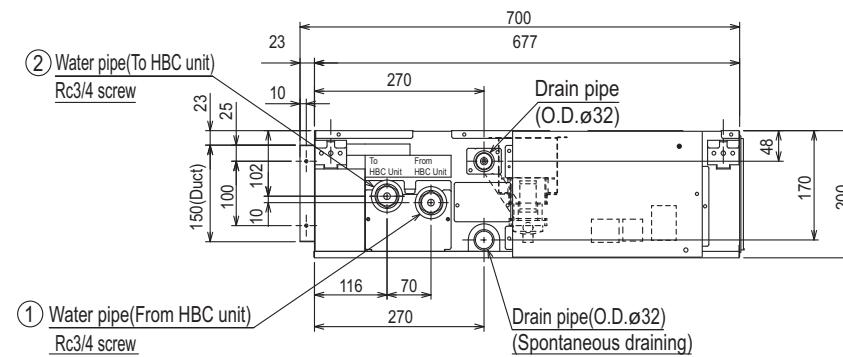
Upper View



Front View



Side View



Model	A	B	C	D	E	F	G	H	J	K	L	M	① Water pipe (From HBC unit)	② Water pipe (To HBC unit)
PEFY-WP10VMS1-E	700	752	798	660	7	600	660	5	500	16	839	790		
PEFY-WP15VMS1-E														Rc3/4 screw
PEFY-WP20VMS1-E														
PEFY-WP25VMS1-E														
PEFY-WP32VMS1-E	900	952	998	860	9	800	860	7	700	20	1039	990		
PEFY-WP40VMS1-E														
PEFY-WP50VMS1-E	1100	1152	1198	1060	11	1000	1060	9	900	24	1239	1190		

PEFY-WP-VMA-E

Ceiling Concealed Ducted Indoor Unit



The **PEFY-WP-VMA-E** low-height ducted indoor unit is concealed within the ceiling space and connects to the Hybrid Branch Controller, using water as the heat transfer medium. Offering unobtrusive air conditioning, the flexibility of duct layout allows airflow patterns to be arranged to suit any application.

Key Features & Benefits

- Low height allowing installation in smaller spaces - only 250mm
- Centrifugal fan minimises noise levels to as low as 23dBA (sizes 20-25) for minimal disturbance
- Wide range of external static pressure settings across entire range (35-150Pa) offers flexibility of application
- Drain pump included as standard
- CN105 connector available - connect to MELCOBEMS MINI for simple BEMS interfacing
- No refrigerant in occupied spaces, removing the need for leak detection under BS EN378
- Higher air off temperatures than standard VRF, allowing for improved comfort levels
- Compatible with Plasma Quad Connect - an innovative, bolt-on air purifying device which neutralises viruses, bacteria, allergens, PM2.5, mould and dust. For more information, please refer to page 1.1.7

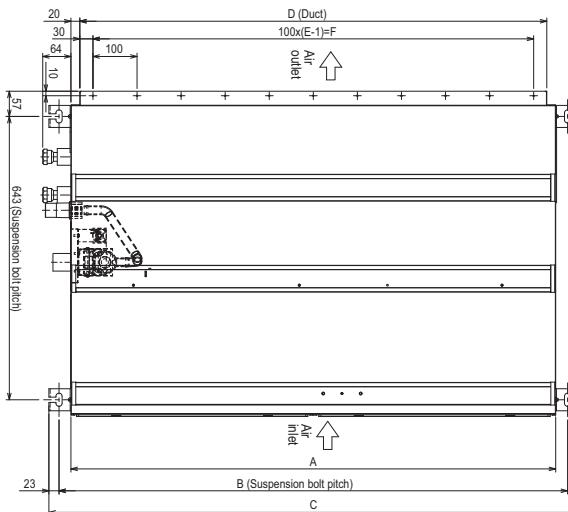
INDOOR UNITS		PEFY-WP20VMA-E	PEFY-WP25VMA-E	PEFY-WP32VMA-E	PEFY-WP40VMA-E	PEFY-WP50VMA-E	PEFY-WP63VMA-E	PEFY-WP80VMA-E
CAPACITY (kW)	Heating (nominal)	2.5	3.2	4.0	5.0	6.3	8.0	10.0
	Cooling (nominal)	2.2	2.8	3.6	4.5	5.6	7.1	9.0
UK Heating	2.5	3.2	4.0	5.0	6.3	8.0	10.0	
UK Total Cooling - Hi (Sensible)	2.00 (1.80)	2.50 (2.50)	3.20 (3.00)	4.00 (3.80)	5.00 (4.20)	6.40 (5.10)	8.10 (7.20)	
UK Total Cooling - Mi2	-	-	-	-	-	-	-	
UK Total Cooling - Mi1	1.92	2.40	3.07	3.84	4.80	6.15	7.76	
UK Total Cooling - Lo	1.79	2.24	2.85	3.53	4.41	5.64	7.17	
POWER INPUT (kW)	Heating (nominal)	0.05	0.07	0.9	0.12	0.12	0.12	0.22
	Cooling (nominal)	0.07	0.09	0.11	0.14	0.14	0.14	0.24
AIRFLOW (l/s)	Lo-Mi-Hi	125-150-175	167-200-233	200-242-283	242-300-350	242-300-350	242-300-350	383-467-550
EXTERNAL STATIC PRESSURE (Pa)	35-50-70-100-150	35-50-70-100-150	35-50-70-100-150	35-50-70-100-150	35-50-70-100-150	35-50-70-100-150	35-50-70-100-150	35-50-70-100-150
SOUND PRESSURE LEVEL (dBA) (50Pa)	Lo-Mi-Hi	23-26-29	23-27-30	25-29-32	26-29-34	26-29-34	26-29-34	28-33-37
WEIGHT (kg)		21	26	26	31	31	31	40
DIMENSIONS (mm)	Width	700	900	900	1100	1100	1100	1400
	Depth	732	732	732	732	732	732	732
	Height	250	250	250	250	250	250	250
ELECTRICAL SUPPLY		220-240v, 50Hz						
PHASE		Single						
RUNNING CURRENT (A) Heating / Cooling	0.44 / 0.55	0.53 / 0.64	0.63 / 0.74	1.04 / 1.15	1.04 / 1.15	1.04 / 1.15	1.04 / 1.15	1.36 / 1.47
FUSE RATING (BS88) - HRC (A)	6	6	6	6	6	6	6	6
MAINS CABLE No. Cores	3	3	3	3	3	3	3	3
WATER PIPE CONNECTION	3/4" BSP SCREW	3/4" BSP SCREW	3/4" BSP SCREW	3/4" BSP SCREW	3/4" BSP SCREW	3/4" BSP SCREW	1 1/4" BSP SCREW	1 1/4" BSP SCREW

Note: HVRF indoor units can only be configured with the CMB-WM HBC (HVRF) and PURY-(E)M YNW-A1 or PQRY-P YLM-A1 outdoor units.

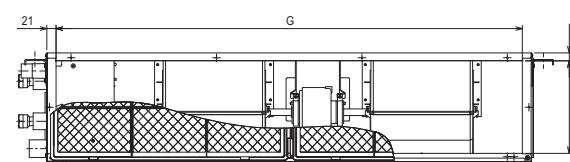
Product Dimensions

PEFY-WP20/25/32/40/50VMA-E

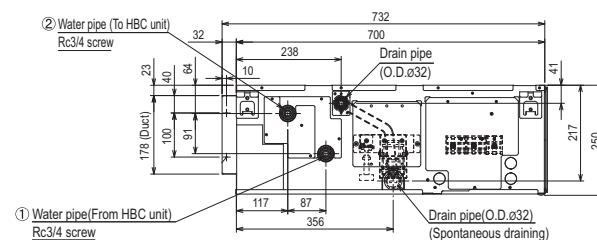
Upper View



Front View



Side View

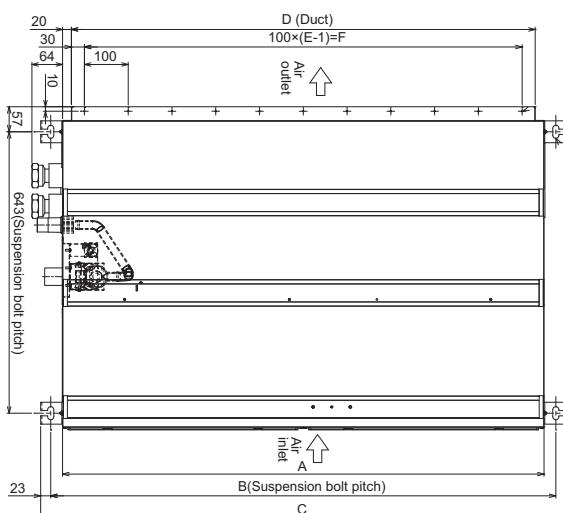


Model	A	B	C	D	E	F	G	① Water pipe (From HBC unit)	② Water pipe (To HBC unit)
PEFY-WP20VMA-E	700	754	800	660	7	600	658		Rc3/4 screw
PEFY-WP25,32VMA-E	900	954	1000	860	9	800	858		
PEFY-WP40,50VMA-E	1100	1154	1200	1060	11	1000	1058		

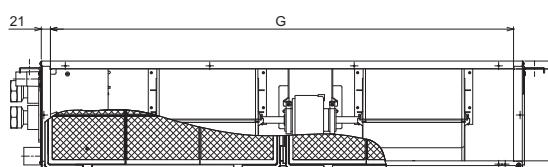
Product Dimensions

PEFY-WP63/80VMA-E

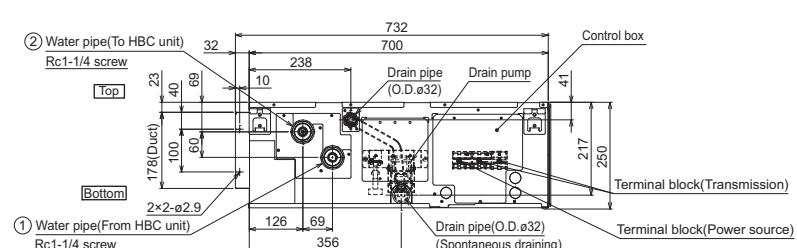
Upper View



Front View



Side View



Model	A	B	C	D	E	F	G	① Water pipe (From HBC unit)	② Water pipe (To HBC unit)
PEFY-WP63VMA-E	1100	1154	1200	1060	11	1000	1058		Rc1-1/4 screw
PEFY-WP80VMA-E	1400	1454	1500	1360	14	1300	1358		

PLFY-WL-VEM-E

4-Way Blow Ceiling Cassette Indoor Unit



The **PLFY-WL-VEM-E** ceiling cassette unit connects to the Hybrid Branch Controller and uses water as the heat transfer medium. Offering 72 different airflow patterns, with the ability to handle a multitude of ceiling applications up to 4.2 metres in height, the easy to install, slimline unit is ideal for maintaining constant temperatures, thanks to adjustable vanes that allow users to precisely direct air where it's needed.

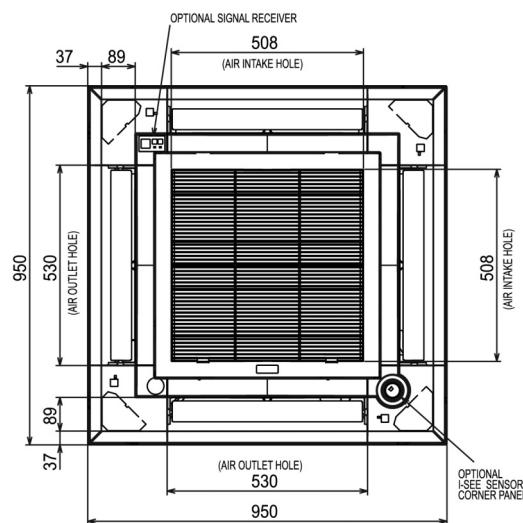
Key Features & Benefits

- Enhanced airflow control through directional vanes
- Optional 3D i-see sensor grille (PLP-6EAE) provides customised comfort by automatically monitoring room occupancy, position and body temperatures
- Optional filter lowering operation down to 4m (PLP-6EAJ), allowing for easier maintenance
- Optional black (Satin finish) grille (PLP-6EA-B), for environments that desire a premium quality feel
- No refrigerant in occupied spaces, removing the need for leak detection under BS EN378
- Higher air off temperatures than standard VRF, allowing for improved comfort levels
- Optional V Blocking filter provides in-room air purification, neutralising 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. For more information, please refer to page 1.1.7

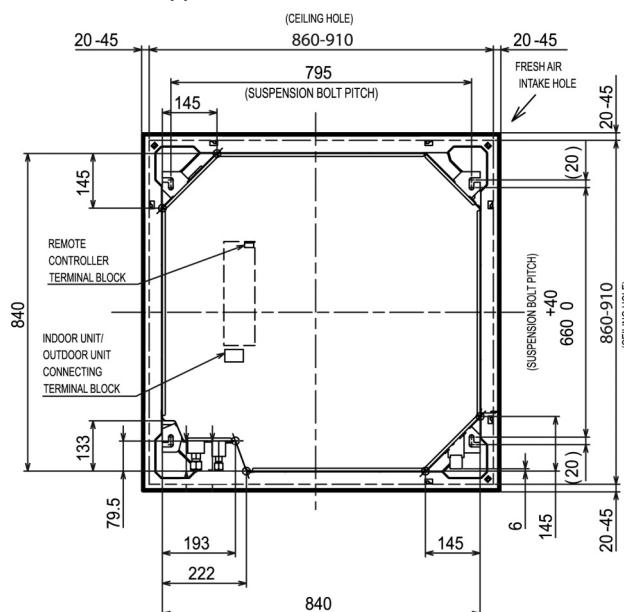
INDOOR UNITS		PLFY-WL32VEM-E	PLFY-WL40VEM-E	PLFY-WL50VEM-E	PLFY-WL63VEM-E	PLFY-WL80VEM-E
CAPACITY (kW)	Heating (nominal) Cooling (nominal) UK Heating	4.0 3.6 4.0	5.0 4.5 5.0	6.3 5.6 6.3	8.0 7.1 8.0	10.0 9.0 8.0
	UK Total Cooling - Hi (Sensible) UK Total Cooling - M2 UK Total Cooling - Mi1 UK Total Cooling - Lo	3.20 (3.20) 3.16 3.09 3.02	4.00 (3.60) 3.95 3.87 3.77	5.00 (4.20) 4.87 4.66 4.39	6.4 (5.0) 6.26 6.02 5.73	8.1 (6.1) 7.94 7.53 6.95
POWER INPUT (kW)	Heating (nominal) Cooling (nominal)	0.03 0.03	0.03 0.03	0.04 0.04	0.04 0.05	0.05 0.05
AIRFLOW (l/s)	Lo-M1-M2-Hi	233-250-267-283	233-250-267-283	233-267-300-333	250-283-317-350	250-300-350-383
SOUND PRESSURE LEVEL (dBA)	Lo-M1-M2-Hi	26-27-29-30	26-28-29-31	27-29-31-33	27-29-31-33	27-30-33-35
WEIGHT (kg)		20	20	20	23	23
DIMENSIONS (mm)	Width (Grille) Depth (Grille) Height (Grille)	840 (950) 840 (950) 258 (40)	840 (950) 840 (950) 258 (40)	840 (950) 840 (950) 258 (40)	840 (950) 840 (950) 298 (40)	840 (950) 840 (950) 298 (40)
ELECTRICAL SUPPLY		220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50/60Hz	220-240v, 50/60Hz
PHASE		Single	Single	Single	Single	Single
RUNNING CURRENT (A) Heating / Cooling		0.27 / 0.33	0.29 / 0.35	0.34 / 0.40	0.34 / 0.40	0.40 / 0.46
FUSE RATING (BS88) - HRC (A)		6	6	6	6	6
MAINS CABLE No. Cores		3	3	3	3	3
GRILLE MODEL REFERENCE		PLP-6EA	PLP-6EA	PLP-6EA	PLP-6EA	PLP-6EA
WATER PIPE CONNECTION		20mm I.D	20mm I.D	20mm I.D	22 mm (O.D)	22 mm (O.D)

Note: HVRF indoor units can only be configured with the CMB-WM HBC (HVRF) and PURY-(E)M YNW-A1 or PQRY-P YLM-A1 outdoor units.

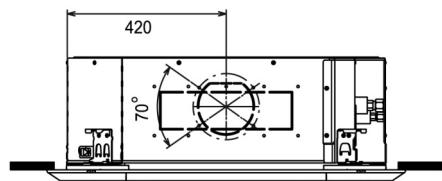
Lower View



Upper View

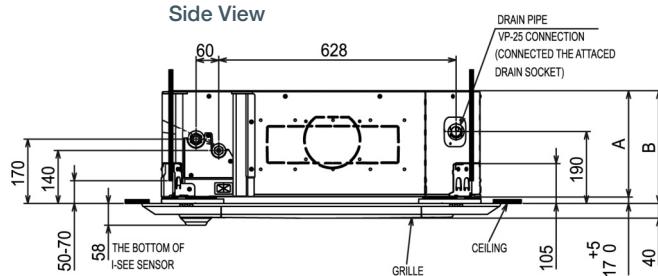


Front View



	A	B
32/40/50	241	258
63/80	281	298

Side View



PLFY-WL-VFM-E

600x600 4-Way Blow Ceiling Cassette Indoor Unit



The **PLFY-WL-VFM-E** ceiling cassette unit connects to the Hybrid Branch Controller and uses water as the heat transfer medium. Providing a smart air conditioning solution for tight ceiling spaces, and designed to fit directly into standard 600mm square ceiling grids, these units are a perfect choice for both offices and retail applications. The optional 3D i-see sensor grille optimises both energy consumption and comfort levels.

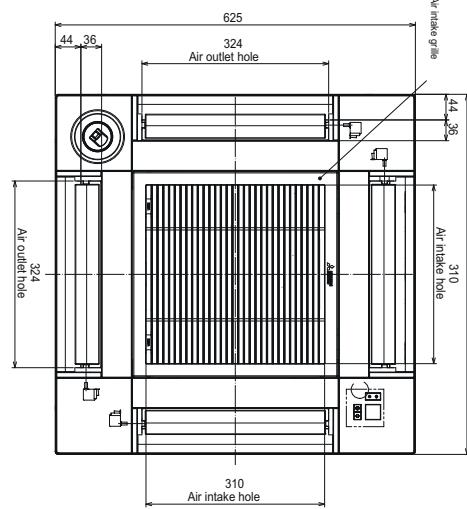
Key Features & Benefits

- Stylish square, slimline design - fits into narrow ceiling spaces with a height of only 245mm
- Low noise levels for minimal disturbance - reduced noise value with 3D turbo fan
- Enhanced airflow control through directional vanes
- Easy installation - temporary hanging hook on grille and no screw removal for corner panel / control box
- Optional 3D i-see sensor grille (SLP-2FAE) provides energy efficient, customised comfort by automatically monitoring room occupancy, position and body temperatures
- No refrigerant in occupied spaces, removing the need for leak detection under BS EN378
- Higher air off temperatures than standard VRF, allowing for improved comfort levels
- Optional V Blocking filter provides in-room air purification, neutralising viruses, allergens, dust and mould

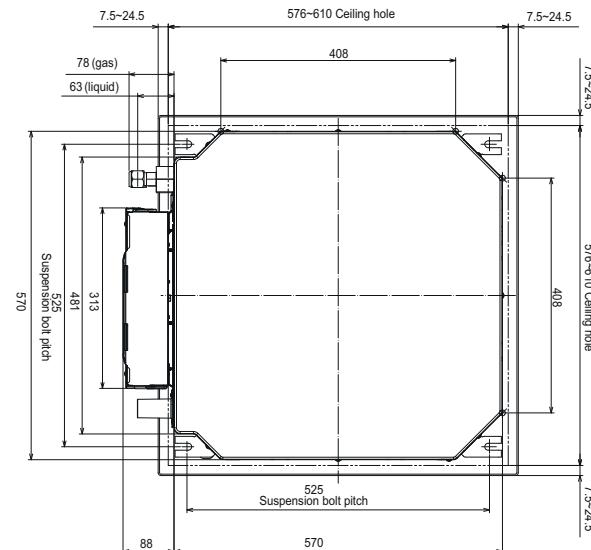
INDOOR UNITS	PLFY-WL15VFM-E	PLFY-WL20VFM-E	PLFY-WL25VFM-E	PLFY-WL32VFM-E	PLFY-WL40VFM-E	
CAPACITY (kW)	Heating (nominal) Cooling (nominal) UK Heating UK Total Cooling - Hi (Sensible) UK Total Cooling - Mi1 UK Total Cooling - Lo	1.9 1.7 1.9 1.50 (1.30) 1.44 1.36	2.5 2.2 2.5 2.00 (1.60) 1.92 1.89	3.2 2.8 3.2 2.50 (2.00) 2.38 2.26	4.0 3.6 4.0 3.20 (2.60) 2.92 2.52	5.0 4.5 5.0 4.0 (3.1) 3.88 2.98
POWER INPUT (kW)	Heating (nominal) Cooling (nominal)	0.02 0.02	0.02 0.02	0.03 0.03	0.04 0.04	
AIRFLOW (l/s)	Lo-Mi-Hi	100-117-133	108-117-133	108-125-150	108-150-200	
SOUND PRESSURE LEVEL (dBA)	Lo-Mi-Hi	25-26-29	27-29-31	27-30-34	27-33-41	
WEIGHT (kg)	(Grille)	13 (3)	14 (3)	14 (3)	14 (3)	
DIMENSIONS (mm)	Width (Grille) Depth (Grille) Height (Grille)	570 (625) 570 (625) 245 (10)				
ELECTRICAL SUPPLY		220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	
PHASE		Single	Single	Single	Single	
RUNNING CURRENT (A)	Heating / Cooling	0.18 / 0.24	0.20 / 0.26	0.23 / 0.29	0.32 / 0.38	
FUSE RATING (BS88) - HRC (A)		6	6	6	6	
MAINS CABLE No. Cores		3	3	3	3	
GRILLE MODEL REFERENCE		SLP-2FA	SLP-2FA	SLP-2FA	SLP-2FA	
WATER PIPE CONNECTION		20mm I.D	20mm I.D	20mm I.D	20mm I.D	

Note: HVRF indoor units can only be configured with the CMB-WM HBC (HVRF) and PURY-(E)M YNW-A1 or PQRY-P YLM-A1 outdoor units.

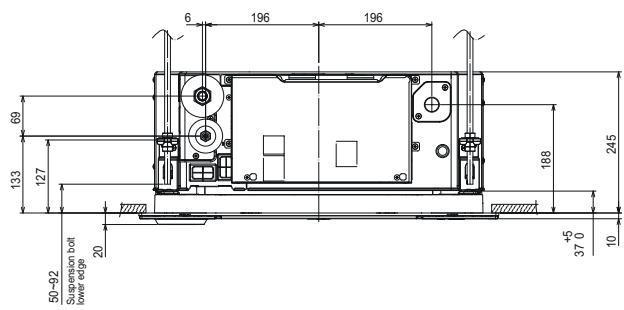
Upper View



Lower View



Side View



PFFY-WP-VLRMM-E

Floor Standing Concealed Indoor Unit



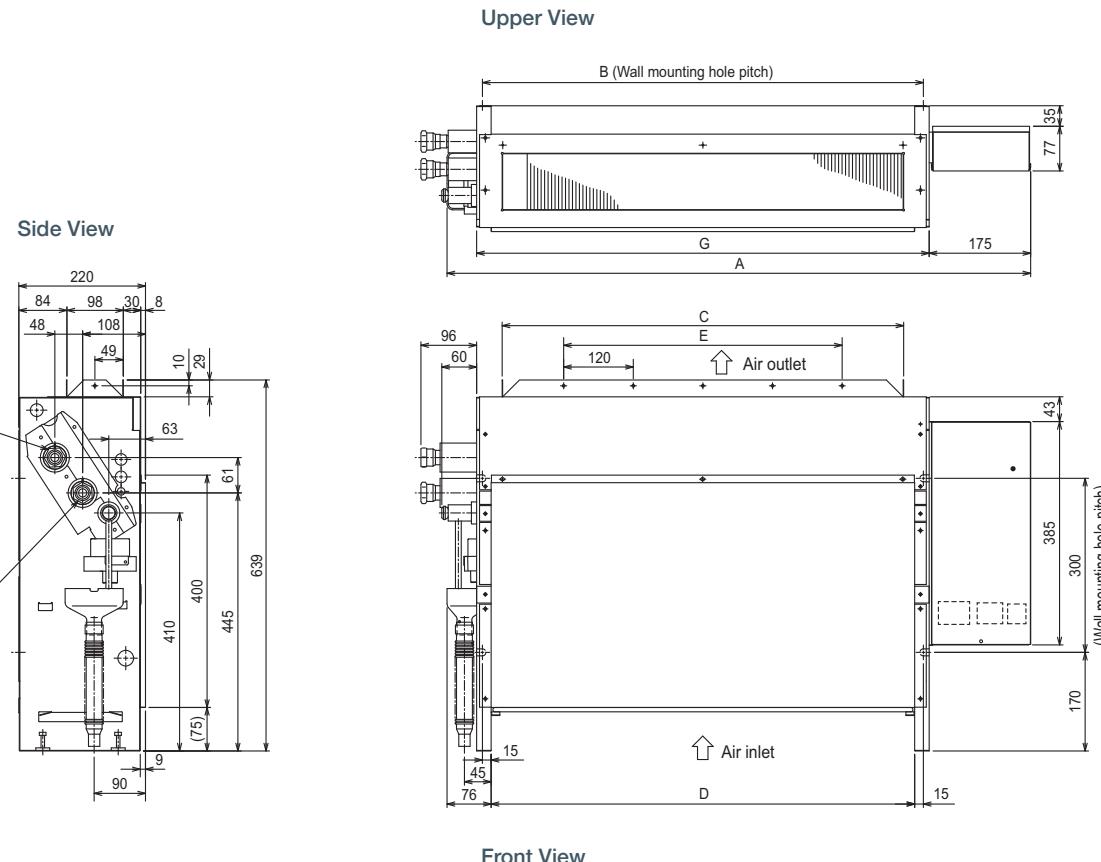
The **PFFY-WP-VLRMM-E** floor standing unit connects to the Hybrid Branch Controller and uses water as the heat transfer medium. A compact concealed unit that provides simple, effective air conditioning in perimeter zones, the unit is easy to install and at only 200mm deep offers an unobtrusive method of delivering a highly efficient air conditioning performance.

Key Features & Benefits

- Concealed unit for hidden installation or low visual impact
- Ideal for perimeter refurbishments
- Reduced noise levels for minimal disturbance
- Three static pressure settings - 20/40/60Pa, ideal for ducting in the perimeter zone
- No refrigerant in occupied spaces, removing the need for leak detection under BS EN378
- Higher air off temperatures than standard VRF, allowing for improved comfort levels

INDOOR UNITS		PFFY-WP20VLRMM-E	PFFY-WP25VLRMM-E	PFFY-WP32VLRMM-E	PFFY-WP40VLRMM-E	PFFY-WP50VLRMM-E
CAPACITY (kW)	Heating (nominal)	2.5	3.2	4.0	5.0	6.3
	Cooling (nominal)	2.2	2.8	3.6	4.5	5.6
	UK Heating	2.5	3.2	4.0	5.0	6.3
	UK Total Cooling - Hi (Sensible)	2.00 (1.50)	2.50 (2.00)	3.20 (2.50)	4.00 (3.10)	5.00 (3.90)
	UK Total Cooling - Mi2	-	-	-	-	-
	UK Total Cooling - Mi1	1.96	2.42	3.07	3.86	4.82
	UK Total Cooling - Lo	1.83	2.29	2.86	3.53	4.43
POWER INPUT (kW)	Heating (nominal)	0.04	0.04	0.05	0.05	0.07
	Cooling (nominal)	0.04	0.04	0.05	0.05	0.07
AIRFLOW (l/s)	Lo-Mi-Hi	75-83-100	100-117-133	125-150-175	133-167-192	175-217-250
EXTERNAL STATIC PRESSURE (Pa)	20-40-60	20-40-60	20-40-60	20-40-60	20-40-60	20-40-60
SOUND PRESSURE LEVEL (dB(A) (20Pa) Lo-Mi-Hi	31-33-38	31-33-38	31-35-38	34-37-40	37-42-45	37-42-45
WEIGHT (kg)	22	25	25	29	29	29
DIMENSIONS (mm)	Width	886	1006	1006	1246	1246
	Depth	220	220	220	220	220
	Height	639	639	639	639	639
ELECTRICAL SUPPLY	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
RUNNING CURRENT (A) Heating / Cooling	0.35 / 0.35	0.35 / 0.35	0.47 / 0.47	0.47 / 0.47	0.65 / 0.65	0.65 / 0.65
FUSE RATING (BS88) - HRC (A)	6	6	6	6	6	6
MAINS CABLE No. Cores	3	3	3	3	3	3
WATER PIPE CONNECTION	3/4" BSP SCREW	3/4" BSP SCREW	3/4" BSP SCREW	3/4" BSP SCREW	3/4" BSP SCREW	3/4" BSP SCREW

Note: HVRF indoor units can only be configured with the CMB-WM HBC (HVRF) and PURY-(E)M YNW-A1 or PQRY-P YLM-A1 outdoor units.



Model	A	B	C	D	E	F	G	① Water pipe (To HBC unit)	② Water pipe (From HBC unit)
PFFY-WP20VLRMM-E	886	640	572	610	360	4	660		
PFFY-WP25VLRMM-E	1006	760	692	730	480	5	780		
PFFY-WP32VLRMM-E									
PFFY-WP40VLRMM-E	1246	1000	932	970	720	7	1020		
PFFY-WP50VLRMM-E									

Rc 3/4 screw

PKFY-WL-VLM-E / VKM-E

Wall Mounted Indoor Unit



The **PKFY-WL** wall mounted indoor unit connects to the Hybrid Branch Controller and uses water as the heat transfer medium. Elegant and compact in design, it is an ideal unit choice for exposed applications. The unit's quiet operation promotes minimal disturbance in close proximity.

Key Features & Benefits

- Compact flat panel design - only 773mm wide (sizes 10-32)
- Widened vane control for improved air distribution and comfort
- Reduced noise levels of 22dB(A) (sizes 10-25) enabling minimal disturbance
- No refrigerant in occupied spaces, removing the need for leak detection under BS EN378
- Higher air off temperatures than standard VRF, allowing for improved comfort levels
- Compatible with Plasma Quad Connect - an innovative, bolt-on air purifying device which neutralises viruses, bacteria, allergens, PM2.5, mould and dust. For more information, please refer to page 1.1.7

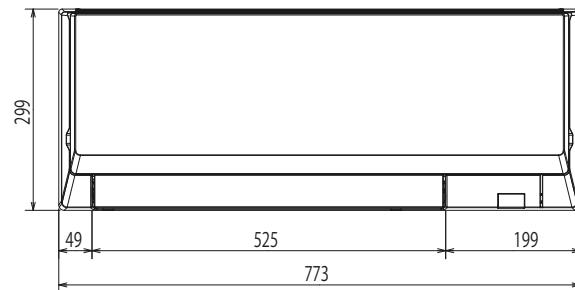
INDOOR UNITS		PKFY-WL10VLM-E	PKFY-WL15VLM-E	PKFY-WL20VLM-E	PKFY-WL25VLM-E	PKFY-WL32VLM-E	PKFY-WL40VLM-E	PKFY-WL50VKM-E	PKFY-WL63VKM-E	
CAPACITY (kW)		Heating (nominal)	1.4	1.9	2.5	3.2	4.0	5.0	6.3	8.0
		Cooling (nominal)	1.2	1.7	2.2	2.8	3.6	4.5	5.6	7.1
		UK Heating	1.4	1.9	2.5	3.2	4.0	5.0	6.3	8.0
		UK Total Cooling - Hi (Sensible)	1.10 (0.90)	1.50 (1.10)	2.00 (1.50)	2.50 (1.90)	3.20 (2.40)	4.00 (3.00)	5.00 (4.10)	6.40 (5.00)
		UK Total Cooling - M12	1.08	1.45	1.92	2.38	3.09	3.82	-	-
		UK Total Cooling - M11	1.05	1.38	1.78	2.13	2.90	3.53	-	-
		UK Total Cooling - Lo	1.00	1.30	1.61	1.82	2.65	3.12	4.88	6.05
POWER INPUT (kW)		Heating (nominal)	0.01	0.01	0.02	0.03	0.03	0.04	0.04	0.05
		Cooling (nominal)	0.02	0.02	0.03	0.04	0.04	0.05	0.04	0.05
AIRFLOW (l/s)	Lo-M1-M2-Hi	55-63-68-75	55-63-72-82	67-83-100-117	67-90-117-140	105-127-150-173	107-137-167-198	300-333	300-367	
SOUND PRESSURE LEVEL (dBA)	Lo-M1-M2-Hi	22-26-28-30	22-26-29-32	22-28-33-36	22-30-36-41	29-34-38-41	30-36-41-45	39-42	39-45	
WEIGHT (kg)		11	11	11	11	13	13	20	20	
DIMENSIONS (mm)		Width	773	773	773	773	898	898	1170	1170
		Depth	237	237	237	237	237	237	295	295
		Height	299	299	299	299	299	299	365	365
ELECTRICAL SUPPLY		220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50/60Hz	220-240v, 50/60Hz	
PHASE		Single	Single	Single	Single	Single	Single	Single	Single	
RUNNING CURRENT (A) Heating / Cooling		0.15 / 0.20	0.15 / 0.20	0.20 / 0.25	0.30 / 0.35	0.30 / 0.35	0.40 / 0.45	0.40 / 0.46	0.50 / 0.56	
FUSE RATING (BS88) - HRC (A)		6	6	6	6	6	6	6	6	
MAINS CABLE No. Cores		3	3	3	3	3	3	3	3	
WATER PIPE CONNECTION		3/4" BSP SCREW	3/4" BSP SCREW	3/4" BSP SCREW	3/4" BSP SCREW	3/4" BSP SCREW	3/4" BSP SCREW	3/4" BSP SCREW	3/4" BSP SCREW	

Note: HVRF indoor units can only be configured with the CMB-WM HBC (HVRF) and PURY-(E)M YNW-A1 or PQRY-P YLM-A1 outdoor units.

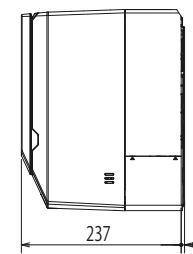
Product Dimensions

PKFY-WL10/15/20/25VLM-E

Front View

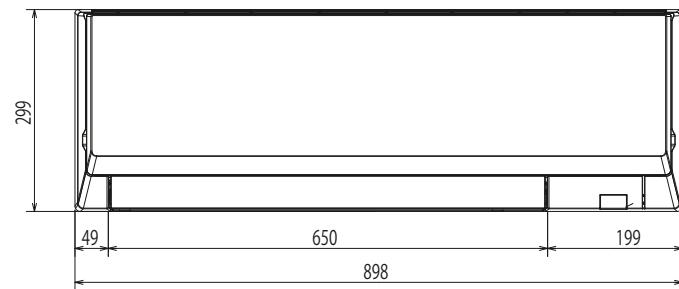


Side View

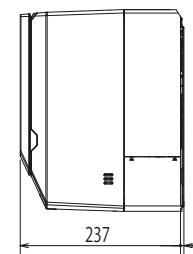
**Product Dimensions**

PKFY-WL32/40VLM-E

Front View

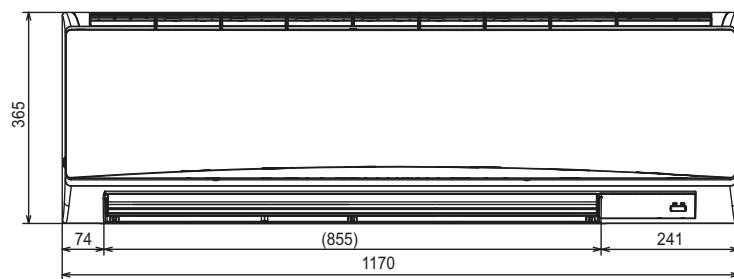


Side View

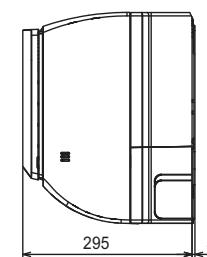
**Product Dimensions**

PKFY-WL50/63VKM-E

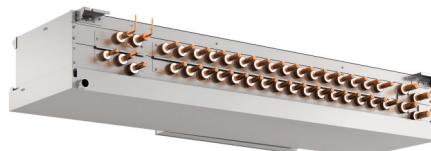
Front View



Side View



HBC Controllers



At the heart of both the R2 and WR2 Series, the HBC Controller makes simultaneous heating and cooling possible. Improved system efficiency is achieved when energy is transferred intelligently around the building. The **HBC Controller** is available as a 6, 8 or 16 port model, and now includes both horizontal and vertical types, offering greater freedom and flexibility in system design.

Key Features & Benefits

- Valves, pumps and heat exchanger all contained within the HBC
- Manageable, phased installation through modular HBC system design - ideal for Cat A to Cat B applications
- Intuitive load adjusting flow control valves & water pumps are optimised for variable flow control and heat recovery for maximum efficiency
- Where ceiling space is tight or congested, the compact vertical HBC can be considered as an alternative to the traditional horizontal type HBC box
- The vertical HBC's reduced footprint enables easier installation and service access



MAIN HBC CONTROLLERS	CMB-WM108V-AA	CMB-WM1016V-AA	CMB-WM350F-AA	CMB-WM500F-AA
NUMBER OF CONNECTIONS	8	16	6	6
ORIENTATION	Horizontal	Horizontal	Vertical	Vertical
COMPATIBILITY	R32 / R410A	R32 / R410A	R32	R32
WEIGHT (kg)	86 (96)*	98 (111)*	196 (216)*	209 (233)*
DIMENSIONS (mm)	Width 540 (630) Depth (Control Box) 300 Height	Width 1520 540 (630) 300 Height	Width 1800 540 (630) 300 Height	Width 800 500 1500 800 Height
ELECTRICAL SUPPLY	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
PHASE	Single	Single	Single	Single
POWER INPUT (kW)	0.46	0.46	1.50	1.50
RUNNING CURRENT (A)	2.83	2.83	6.52	6.52
FUSE RATING (BS88) – HRC (A)	6	6	10	10
MAINS CABLE No. Cores	3	3	3	3

SUB HBC CONTROLLERS	CMB-WM108V-BB	CMB-WM1016V-BB
NUMBER OF CONNECTIONS	8	16
ORIENTATION	Horizontal	Horizontal
COMPATIBILITY	R32 / R410A	R32 / R410A
WEIGHT (kg)	40 (45)*	53 (62)*
DIMENSIONS (mm)	Width 930 540 (630) 310 Height	Width 1210 540 (630) 310 Height
ELECTRICAL SUPPLY	220-240v, 50Hz	220-240v, 50Hz
PHASE	Single	Single
POWER INPUT (kW)	0.01	0.01
RUNNING CURRENT (A)	0.14	0.14
FUSE RATING (BS88) – HRC (A)	6	6
MAINS CABLE No. Cores	3	3

Notes: CMB-WM-V-AA (Main) and CMB-WM-V-BB (Sub) units are for use with PURY-(E)M200-500YNW-A1, PQRY-P200-500YLM-A1 outdoor/condenser units and HVRF indoor units only. CMB-WM-F-AA (Main) and CMB-WM-V-BB (Sub) units are for use with PURY-(E)M200-500YNW-A1 outdoor units and HVRF indoor units only.

One CMB-WM-V-AA unit can be used on PURY-(E)M200-250YNW-A1 and PQRY-P200-250YLM-A1 units. One CMB-WM-V-AA unit can be used on PURY-(E)M300-350YNW-A1 and PQRY-P300-350YLM-A1 units with a system efficiency reduction.

Two CMB-WM-V-AA units can be used in parallel on PURY-(E)M300-500YNW-A1 and PQRY-P300-500YLM-A1 outdoor/condenser units. PURY-(E)M400-500YNW-A1 requires two CMB-WM-V-AA units.

One CMB-WM-F-AA can only be used on PURY-(E)M200-500YNW-A1 outdoor units.

A CMB-WM-V-AA and a CMB-WM-F-AA cannot be connected to the same R32 outdoor unit.

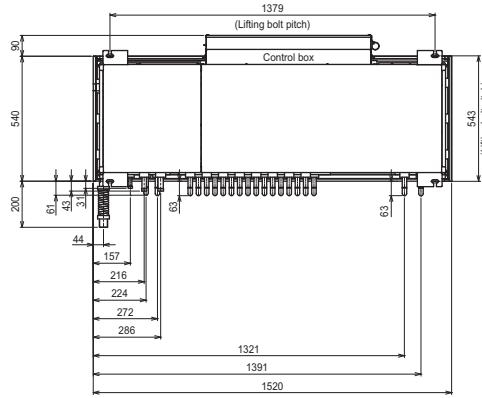
CMB-WM-V-BB units are for use with PURY-(E)M200-500YNW-A1, PQRY-P200-500YLM-A1 outdoor/condenser units and HVRF indoor units only, when accompanied by a CMB-WM-V-AA or CMB-WM-F-AA unit.

*() Includes Water

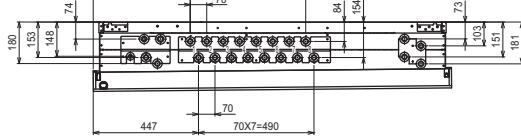
Product Dimensions

CMB-WM108V-AA

Upper View



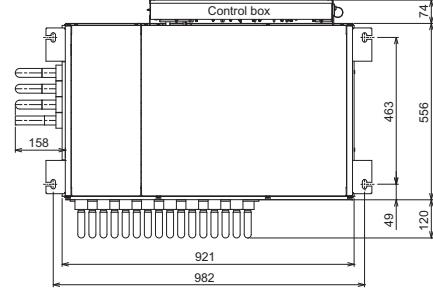
Side View



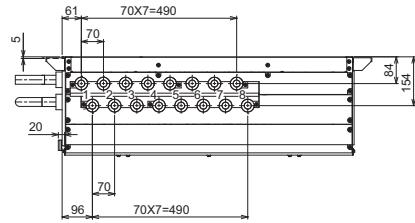
Product Dimensions

CMB-WM108V-BB

Upper View



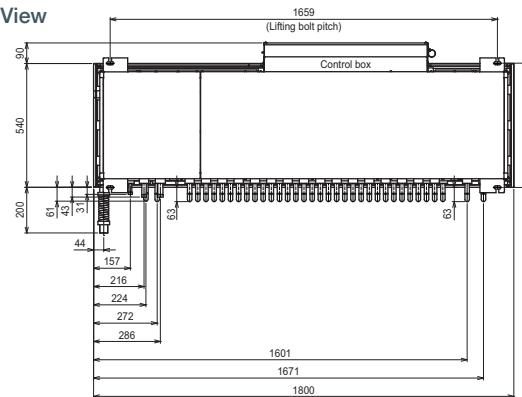
Side View



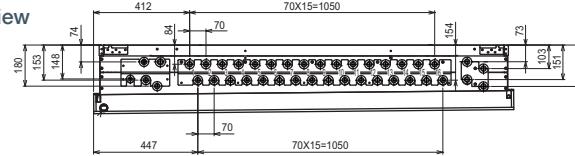
Product Dimensions

CMB-WM1016V-AA

Upper View



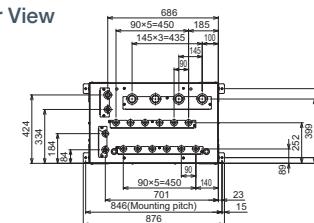
Side View



Product Dimensions

CMB-WM350/500F-AA

Upper View



Front View

The diagram illustrates the front view of the cabinet assembly. The total height of the cabinet is 1500. The top panel has a height of 330. The side panels have a height of 110. The doors have a height of 110 and a width of 400. The base has a width of 800 and a height of 100.

A technical drawing showing a vertical view of a component. The top section has a height of 105. The bottom section has a total width of 500, divided into two parts of 38 each. There are also some smaller internal dimensions indicated.

1.6.25

Air Conditioning



CITY MULTI

HBC Controllers (HVRF)

City Multi Hybrid VRF Accessories / Optional Extras

DESCRIPTION	MODEL REF.
Outdoor Units	
Fin Guard Side surfaces S / L modules (2pc) (P200-P450)	PAC-FG01S-E
Fin Guard Side surfaces XL module (2 pc) (P500)	PAC-FG02S-E
Fin Guard Rear surface S module (P200-P300)	PAC-FG01B-E
Fin Guard Rear surface L module (P350-P450)	PAC-FG02B-E
Fin Guard Rear surface XL module (P500)	PAC-FG03B-E
Differential pressure switch for PQRY-P200-300YLM-A1	KS10-EP100S
Indoor Units	
Remote Temperature Sensor	PAC-SE41TS-E
Discreet Remote Temperature Sensor	KS9-BS1-A
Ceiling Concealed Ducted Indoor Units	
Plasma Quad Connect air purifying device for PEFY-WP-VMS1-E / PEFY-WP-VMA-E	MAC-100FT-E
Plasma Quad Connect metal fitment for PEFY-WP-VMS1-E	PAC-HA11PAR
Plasma Quad Connect metal fitment for PEFY-WP-VMA-E	PAC-HA31PAR
4-Way Blow Cassette Indoor Units	
Grille for PLFY-WL-VFM-E	SLP-2FA
3D i-see sensor grille for PLFY-WL-VFM-E	SLP-2FAE
Grille for PLFY-WL-VEM-E	PLP-6EA
Black grille (Satin finish) for PLFY-WL-VEM-E	PLP-6EA-B
3D i-see sensor grille for PLFY-WL-VEM-E	PLP-6EAE
Self elevating grille for PLFY-WL-VEM-E	PLP-6EAJ
Corner panel with i-see sensor for PLFY-WL-VEM-E	PAC-SE1ME-E
Corner panel with signal receiver for PLFY-WL-VEM-E	PAR-SE9FA-E
Shutter plate for PLFY-WL-VEM-E	PAC-SJ37SP-E
Multi-function casement for PLFY-WL-VEM-E	PAC-SJ41TM-E
High efficiency filter for PLFY-WL-VEM-E (must be used with PAC-SJ41TM-E)	PAC-SH59KF-E
V Blocking air purifying filter for PLFY-WL-VEM-E	PAC-SK53KF-E
V Blocking air purifying filter for PLFY-WL-VFM-E	PAC-SK54KF-E
Plasma Quad Connect air purifying device (x1) with multi-function casement for PLFY-WL-VEM-E	PAC-SK51FT-E
Wall Mounted Indoor Units	
Plasma Quad Connect air purifying device for PKFY-WL-VLM-E / VKM-E	MAC-100FT-E



Commercial Heat Pumps & Chillers

A new generation of energy saving
and innovative technology





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e-Series EAHV R32 Modular Air Source Heat Pump	2.8	e-Series EACV R32 Modular Air Cooled Chiller	2.29
MEHP-iS-G07 R32 Modular Air Source Heat Pump	2.10	i-BX R410A Air Cooled Chiller, Single Phase	2.30
Ecodan CRHV R410A Ground / Water Source Heat Pump	2.12	i-BX R410A Air Cooled Chiller, Three Phase	2.31
Ecodan CAHV R454C Air Source Heat Pump	2.14	NX2 R454B 2 Compressor Air Cooled Chiller	2.32
Ecodan QAHV R744 Air Source Heat Pump	2.16	NX2 R454B 4 Compressor Air Cooled Chiller	2.33
NX2-N R454B Air Source Heat Pump	2.18	NX2 R454B 4-8 Compressor Air Cooled Chiller	2.34
FOCS-N R513A Air Source Heat Pump	2.21	i-FX R513A Air Cooled Chiller	2.36
i-FX-N R513A Air Source Heat Pump	2.23	i-FX HFO1234ze Air Cooled Chiller	2.41
AW-HT R407C Air Source Heat Pump	2.24	i-FX-Q2 R513A Air Cooled Chiller	2.42
EW-HT R134a Water to Water Heat Pump	2.25	FX2 R513A Air Cooled Chiller	2.44
		FX2 HFO1234ze Air Cooled Chiller	2.49
		Accessories / Optional Extras	2.50

Commercial Heat Pumps & Chillers

The Innovative Commercial Heat Pump & Chiller Range

Mitsubishi Electric has developed a range of heat pumps and chillers specifically designed for heating and cooling commercial buildings.

The Ecodan® range provides renewable heating, challenging traditional heating solutions, whilst meeting the energy and carbon reduction demands of today and beyond. At the same time the e-Series modular chiller range provides a low-carbon, flexible and cost effective option, allowing up to six individual units to be connected together to provide a system capacity from 150kW to 1,080kW, in either cooling only or heat pump options.

In 2015 Mitsubishi Electric purchased Climaveneta, enhancing our product line up and marking our full scale entry into the chiller market.

Climaveneta is a strong European brand, supported by 45 years of customer trust and high quality production. Its range of energy-saving, low-noise and innovative heat pump and chiller technology further expands the application and customisation capabilities we are now able to offer.

Through our technical expertise, long experience and innovative product range, we enable building operators everywhere to significantly improve energy efficiency, reduce running costs and adhere to increasingly tough legislation.

We believe that global climate challenges need local solutions. Our aim is to help individuals and businesses reduce the energy consumption of their buildings and their running costs.



ecodan®
Renewable Heating Technology

e-series



CLIMAVENETA

Commercial Heat Pumps & Chillers

Our Commercial Heating range at a glance

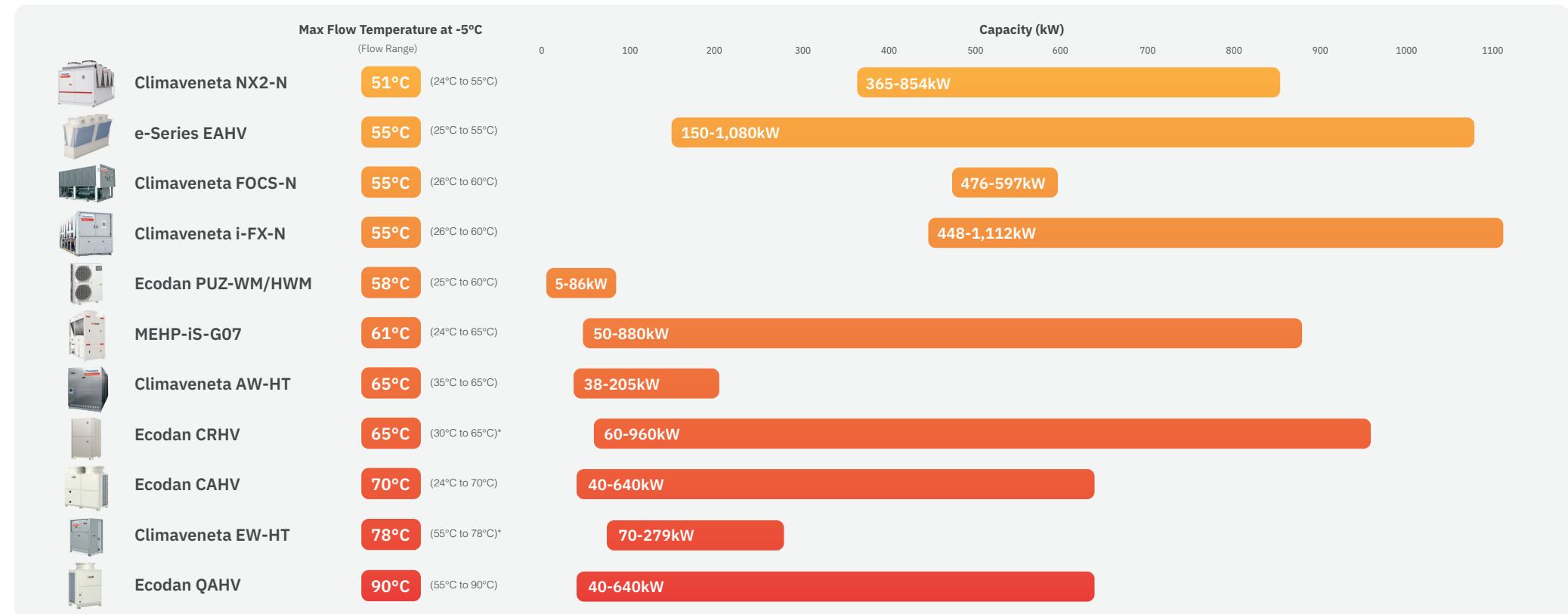
The range of heat pumps on the market is now wider than it ever has been. This means it's possible to select exactly the right equipment for the specific application. Our commercial heat pumps fall into three broad ranges:



Mitsubishi Electric - Modular heat pumps manufactured to the highest quality standard, and suitable for a range of different applications.

Climaveneta - Commercial heat pumps that use a wide range of low and lower GWP refrigerants, alongside the latest fixed speed/inverter scroll and screw compressors.

Ecodan - A range of renewable heat pumps that efficiently and reliably generate sustainable space heating and hot water all year round.



Notes: * Water source



Hydrodan EHWT17D-MHEDW R32 Water to Water Heat Pump



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

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.

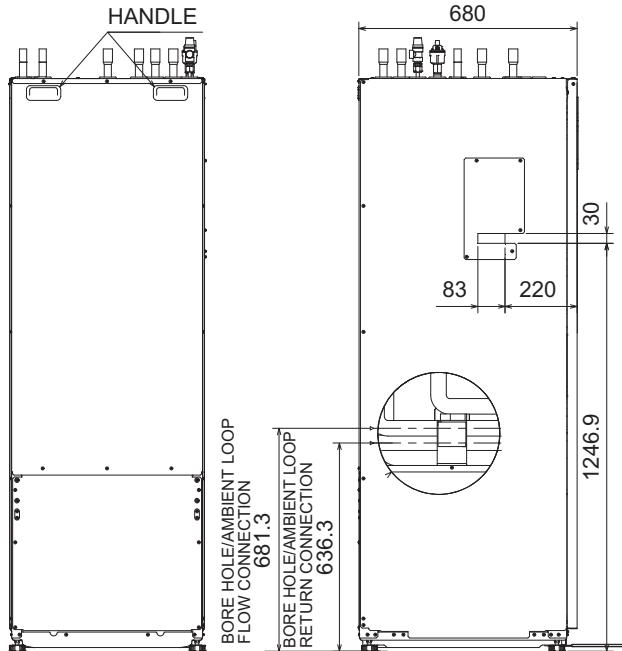
Key Features & Benefits

- 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

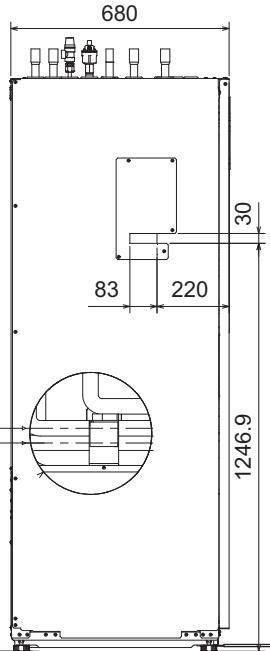


MODEL	EHWT17D-MHEDW		
CAPACITY INFORMATION	L20 / W35	Heating Capacity (min-max) kW Power Input (min-max) kW COP (Nom.) -	1.2 - 8.0 0.3 - 1.0 9.2
	L20 / W45	Heating Capacity (min-max) kW Power Input (min-max) kW COP (Nom.) -	1.1 - 7.5 0.5 - 1.3 6.3
	L20 / W55 (DHW)	Heating Capacity (DHW) kW Power Input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

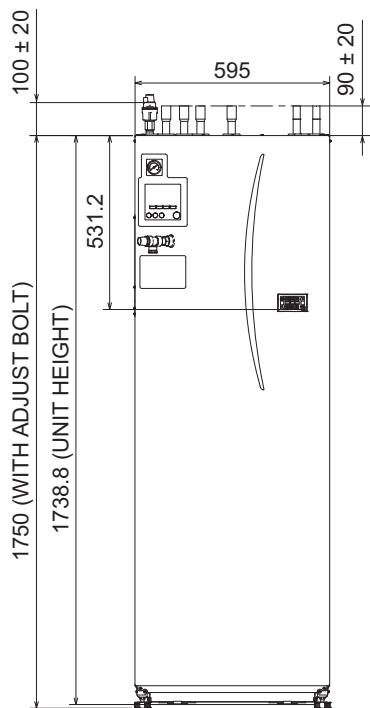
Rear View



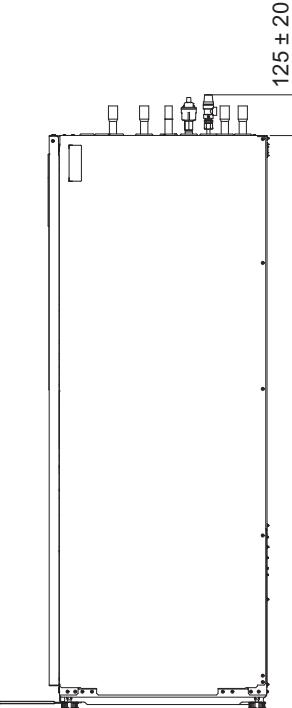
Left Side View



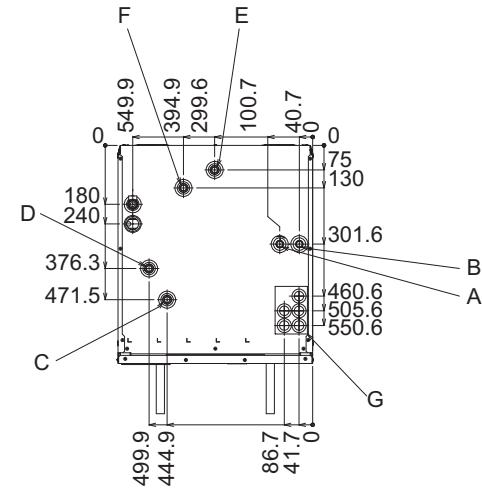
Front View



Right Side View



Upper View



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

e-series

EAHV

R32 Modular Air Source Heat Pump

(150 to 1,080kW)



The R32 e-Series **EAHV** range allows for up to 6 individual units to be connected together to provide a system capacity from 150kW to 1,080kW. Using this modular approach reduces space requirements and simplifies lifting and installation.

Key Features & Benefits

- Highly efficient inverter scroll compressors
- Modular to maximise space saving
- Y-shaped heat exchangers allow for a greater surface area, maximising efficiency, whilst also keeping the units much narrower than conventional heat pumps

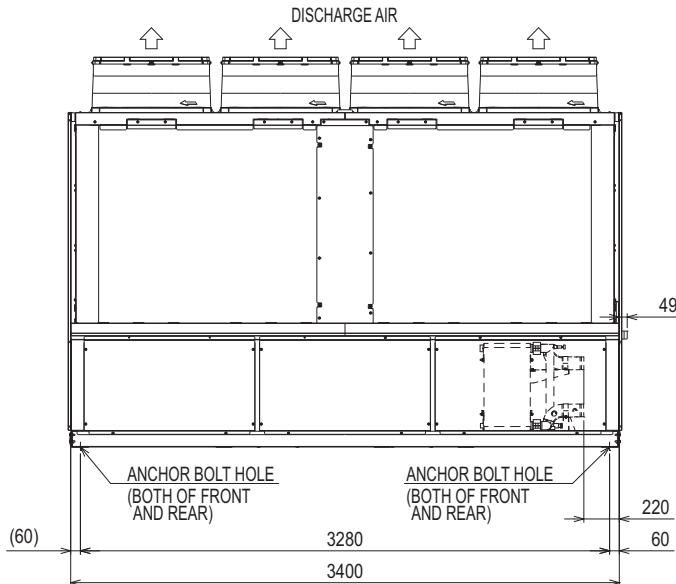
R32

MODEL	EAHV-M1500YCL-N		EAHV-M1800YCL-N	
POWER SOURCE			3-phase 4-wire 380-400-415v 50/60Hz	
COOLING CAPACITY ¹			150	
	Power Input	kW	44.73	57.02
	EER		3.35	3.16
	IPLV ⁶		6.42	6.31
	Water Flow Rate	m ³ /h	25.8	31.0
		kW	149.18	178.80
COOLING CAPACITY (EN14511) ²			180	
	Power Input	kW	45.55	58.22
	EER		3.28	3.07
	Eurovent Efficiency Class		A	B
	SEER		5.52	5.36
	Performance (n _{s,c})	%	217.8	211.4
	Water Flow Rate	m ³ /h	25.8	31.0
		kW	150	180
HEATING CAPACITY ³			180	
	Power Input	kW	42.61	53.09
	COP		3.52	3.39
	Water Flow Rate	m ³ /h	25.8	31.0
HEATING CAPACITY (EN14511) ⁴			181.20	
	Power Input	kW	43.43	54.29
	COP		3.47	3.34
	SCOP Low/Medium		3.31/2.88	3.31/2.88
	Water Flow Rate	m ³ /h	25.8	31.0
CURRENT INPUT			181.20	
	Cooling Current 380-400-415V ¹	A	76 - 72 - 69	96 - 91 - 88
	Heating Current 380-400-415V ³	A	72 - 68 - 66	90 - 85 - 82
	Maximum Current	A	120	120
WATER PRESSURE DROP ¹			78	
TEMP RANGE	Cooling	°C	Outlet water 4~30	Outlet water 4~30
	Heating	°C	Outlet water 25~55	Outlet water 25~55
	Outdoor (Cooling)	°C	-15~-52	-15~-52
	Outdoor (Heating)	°C	-20~-43	-20~-43
CIRCULATING WATER VOLUME RANGE			12.9~43.0	
SOUND PRESSURE LEVEL (Measured in anechoic room) at 1m ¹	dB (A)	65	67	
SOUND POWER LEVEL (Measured in anechoic room) ¹	dB (A)	83	85	
DIAMETER OF WATER PIPE (Standard piping)	Inlet	mm (in)	65A (2 1/2B) housing type joint	65A (2 1/2B) housing type joint
	Outlet	mm (in)	65A (2 1/2B) housing type joint	65A (2 1/2B) housing type joint
DIAMETER OF WATER PIPE (Inside header piping)	Inlet	mm (in)	150A (6B) housing type joint	150A (6B) housing type joint
	Outlet	mm (in)	150A (6B) housing type joint	150A (6B) housing type joint
EXTERNAL FINISH			Polyester powder coating steel plate	Polyester powder coating steel plate
EXTERNAL DIMENSION	W x D x H	mm	3400 x 1080 x 2350	3400 x 1080 x 2350
NET WEIGHT	Standard Piping	kg (lbs)	1280 (2822)	1280 (2822)
	Inside Header Piping	kg (lbs)	1307 (2881)	1307 (2881)
DESIGN PRESSURE	R32	MPa	4.15	4.15
	Water	MPa	1.0	1.0
HEAT EXCHANGER	Water Side		Stainless steel plate and copper brazing	Stainless steel plate and copper brazing
	Air Side		Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube
COMPRESSOR	Type		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting Method		Inverter	Inverter
	Quantity		4	4
	Motor Output	kW	11.5 x 4	11.5 x 4
FAN	Air Flow Rate	m ³ /min	270 x 4	270 x 4
		L/s	4500 x 4	4500 x 4
		cfm	9534 x 4	9534 x 4
	Type, Quantity		Propeller fan x 4	Propeller fan x 4
	Starting Method		Inverter	Inverter
	Motor Output	kW	0.92 x 4	0.92 x 4
	External Static Pressure	Pa	20	20
REFRIGERANT	Type x Charge		R32 x 11.5 (kg) x 4 ⁵	R32 x 11.5 (kg) x 4 ⁵
	Control		LEV	LEV

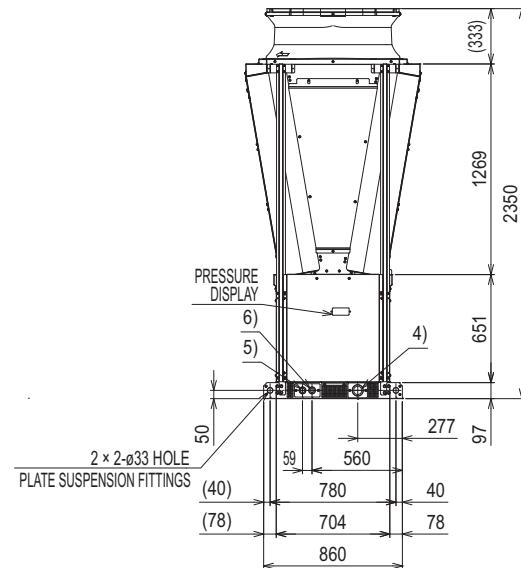
Notes:

- Under normal cooling conditions at outdoor temp 35°CDB/24°CWB (95°FDB / 75.2°FWB) outlet water temp 7°C (44.6°F) inlet water temp 12°C (53.6°F). Pump input is not included in cooling capacity and power input.
- Under normal cooling conditions at outdoor temp 35°CDB/24°CWB (95°FDB/75.2°FWB) outlet water temp 7°C (44.6°F) inlet water temp 12°C (53.6°F). Pump input is included in cooling capacity and power input based on EN14511.
- Under normal heating conditions at outdoor temp 7°CDB/6°CWB (44.6°FDB/42.8°FWB) outlet water temp 45°C (113°F) inlet water temp 40°C (104°F). Pump input is not included in heating capacity and power input.
- Under normal heating conditions at outdoor temp 7°CDB/6°CWB (44.6°FDB/42.8°FWB) outlet water temp 45°C (113°F) inlet water temp 40°C (104°F). Pump input is included in heating capacity and power input based on EN14511.
- Amount of factory-charged refrigerant is 3 (kg) x 4. Please add the refrigerant at the field.
- IPLV is calculated in accordance with AHRI 550-590.
- Please don't use the steel material for the water piping.
- Please always make water circulate, or pull the circulation water out completely when not in use.
- Please do not use groundwater or well water in direct.
- The water circuit must be closed circuit.
- Due to continuous improvement, the above specifications may be subject to change without notice.
- This model doesn't equip with a pump.

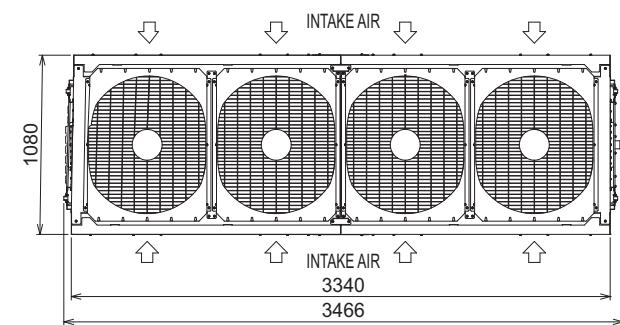
Front View



Side View



Upper View



MEHP-iS-G07

R32 Modular Air Source Heat Pump

(50 to 880kW)



Mitsubishi Electric's new **MEHP-iS-G07** heat pump range is manufactured to the highest quality standards. Featuring a compact design and modular expansion capabilities, it is suitable for many different applications, from comfort to industrial applications.

Key Features & Benefits

- Hot water up to 65°C
- Best-in-class for low noise levels
- Compact design and modular expansion
- New Smart Coordinated Defrost
- Exceptional performance at part load operating conditions



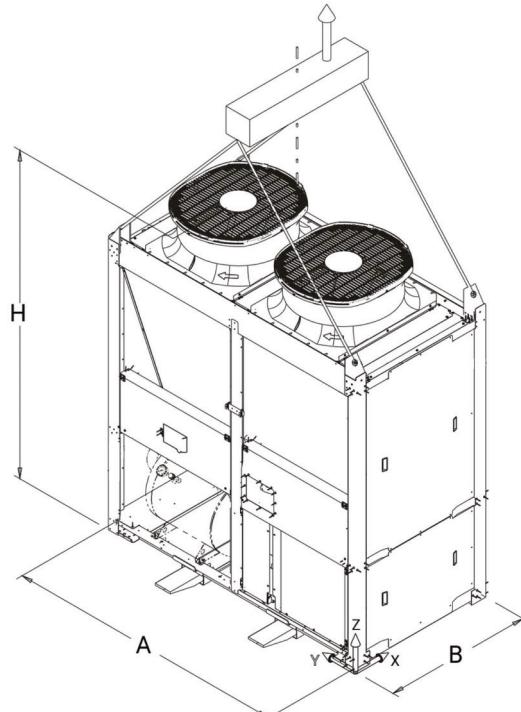
MODEL	0051	0061	0071	0082	0092	0102	0112
POWER SUPPLY	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE							
COOLING ONLY (GROSS VALUE)							
COOLING CAPACITY ¹	kW	48.10	53.11	60.09	68.39	74.18	85.99
TOTAL POWER INPUT ¹	kW	17.0	19.95	25.48	24.91	30.10	31.86
EER ¹	kW/kW	2.829	2.668	2.357	2.747	2.465	2.696
COOLING ONLY (EN14511 VALUE)							
COOLING CAPACITY ^{1,2}	kW	48.0	53.0	60.0	68.3	74.1	85.9
EER ^{1,2}	kW/kW	3.81	2.64	2.34	2.73	2.45	2.68
HEATING ONLY (GROSS VALUE)							
TOTAL HEATING CAPACITY ³	kW	49.92	59.86	69.87	79.89	89.85	100.1
TOTAL POWER INPUT ³	kW	14.39	17.65	21.98	23.95	28.53	29.65
COP ³	kW/kW	3.465	3.403	3.177	3.343	3.151	3.382
HEATING ONLY (EN14511 VALUE)							
TOTAL HEATING CAPACITY ^{3,2}	kW	50.0	60.0	70.0	80.0	90.0	100.3
COP ^{3,2}	kW/kW	3.44	3.38	3.15	3.32	3.12	3.35
COOLING WITH PARTIAL RECOVERY							
COOLING CAPACITY ⁴	kW	49.9	55.1	62.34	70.95	76.96	89.22
TOTAL POWER INPUT ⁴	kW	16.44	19.28	24.62	24.09	29.10	30.81
DESUPERHEATER HEATING CAPACITY ⁴	kW	14.39	17.02	21.96	20.98	25.61	26.76
EXCHANGERS							
HEAT EXCHANGER USER SIDE IN COOLING							
WATER FLOW ¹	l/s	2.30	2.54	2.874	3.27	3.547	4.112
PRESSURE DROP AT THE HEAT EXCHANGER ¹	kPa	14.4	17.6	22.5	17.2	20.2	20.8
HEAT EXCHANGER USER SIDE IN HEATING	l						
WATER FLOW ³	/s	2.41	2.889	3.373	3.856	4.337	4.832
PRESSURE DROP AT THE HEAT EXCHANGER ³	kPa	15.8	22.7	31.0	23.9	30.2	28.7
PARTIAL RECOVERY USER SIDE IN REFRIGERATION							
WATER FLOW ⁴	l/s	0.695	0.822	1.06	1.012	1.236	1.292
PRESSURE DROP AT THE HEAT EXCHANGER ⁴	kPa	11.1	15.5	25.7	11.6	17.3	13.3
REFRIGERANT CIRCUIT							
COMPRESSORS NR.	No.	1	1	1	2	2	2
NO. CIRCUITS	No.	1	1	1	1	1	1
REGULATION		Stepless	Stepless	Stepless	Stepless	Stepless	Stepless
MIN. CAPACITY STEP	%	27	27	27	22	22	20
REFRIGERANT		R32	R32	R32	R32	R32	R32
THEORETICAL REFRIGERANT CHARGE	kg	12.0	12.0	12.0	18.0	18.0	25.0
OIL CHARGE	kg	3.5	3.5	3.5	7.0	7.0	7.0
RC (ASHRAE) ⁵	kg/kW	0.25	0.23	0.20	0.27	0.24	0.29
FANS							
QUANTITY	No.	2	2	2	3	3	3
AIR FLOW	m ³ /s	5.89	5.89	5.89	8.89	8.89	11.77
TOTAL FANS POWER INPUT	kW	0.88	0.88	0.88	1.41	1.41	1.88
NOISE LEVEL							
TOTAL SOUND PRESSURE ⁶	dB(A)	59	60	62	62	63	63
TOTAL SOUND POWER LEVEL IN COOLING ^{7,8}	dB(A)	77	78	80	80	81	82
TOTAL SOUND POWER LEVEL IN HEATING ^{7,9}	dB(A)	77	78	80	80	81	82
SIZE AND WEIGHT							
WIDTH (A) ¹⁰	mm	2085	2085	2085	2600	2600	3225
DEPTH (B) ¹⁰	mm	1100	1100	1100	1100	1100	1100
HEIGHT (H) ¹⁰	mm	2400	2400	2400	2400	2400	2400
OPERATING WEIGHT ¹⁰	kg	710	710	710	960	960	1085

Notes:

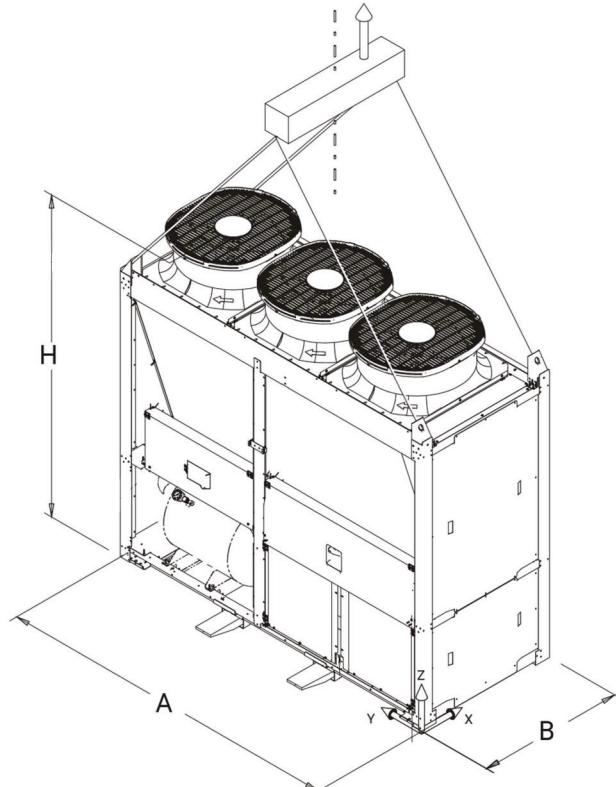
- Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
- Values in compliance with EN14511.
- Plant (side) heat exchanger water (in/out) 40°C/45°C; Source (side) heat exchanger air (in) 7°C - 87% R.H.
- Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
- Plant (side) heat exchanger recovery water (in/out) 40°C/45°C.
- Rated in accordance with AHRI Standard 550/590.
- Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
- Sound power on the basis of measurements taken in compliance with ISO 9614.
- Sound power level in cooling, outdoors.
- Sound power level in heating, outdoors.
- Unit in standard configuration, without optional accessories.

Eurovent Certified Data

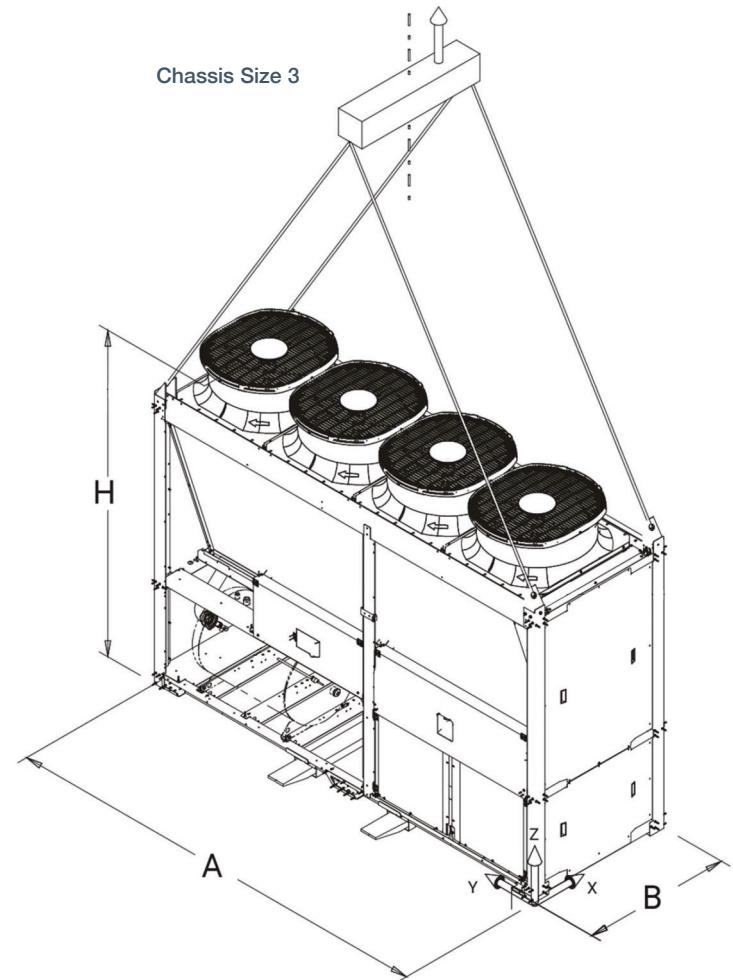
Chassis Size 1



Chassis Size 2



Chassis Size 3



SIZE	A [mm]	B [mm]	H [mm]
MEHP/MECH-iS-G07 0051	2085	1100	2400
MEHP/MECH-iS-G07 0061	2085	1100	2400
MEHP/MECH-iS-G07 0071	2085	1100	2400

SIZE	A [mm]	B [mm]	H [mm]
MEHP/MECH-iS-G07 0082	2600	1100	2400
MEHP/MECH-iS-G07 0092	2600	1100	2400

SIZE	A [mm]	B [mm]	H [mm]
MEHP/MECH-iS-G07 0102	3225	1100	2400
MEHP/MECH-iS-G07 0112	3225	1100	2400



CRHV R410A Ground / Water Source Heat Pump



The inverter driven Ecodan **CRHV** monobloc ground / water source heat pump can operate singly, or be banked together to create a system that can modulate and cascade available units on and off to meet the load from a building.

This level of modulation is unprecedented within the heating industry, and with cascade and rotation built in as standard, the Ecodan CRHV system is perfectly suited to a wide range of commercial applications.

Key Features & Benefits

- Wide range of heat sources - bore holes, slinkies, aquifers, lakes, rivers and waste heat
- Multiple unit cascade control of up to 16 units / 960kW
- Ability to rotate units based on accumulated run hours
- Provides up to 65°C water flow temperatures without booster heaters
- Low maintenance, just electrical and water connections
- Heat recovery applications can be achieved by moving heat between applications
- Passive cooling possible by exchanging ground / water source with a chilled water system

PLEASE NOTE: Full design criteria is needed to ascertain the capacity which could change based on heat source temperature and building flow temperature.

1. Under normal heating conditions at brine inlet: 0°C, outlet water temp 35°C as tested to BS EN14511 (60kW)
2. Under normal heating conditions at brine inlet: 0°C, outlet water temp 35°C as tested to BS EN14511 (45kW)
3. Under normal heating conditions at water inlet: 10°C, outlet water temp 35°C as tested to BS EN14511 (60kW)
4. Under normal heating conditions at water inlet: 10°C, outlet water temp 35°C as tested to BS EN14511 (45kW)
5. Sound power level as tested to BS EN12102
6. Heat source inlet temperature above 27°C and up to 45°C option must reverse the inlet and outlet heat source connections and refer to manual for dip switch changes
7. The system should be adequately protected from freezing
8. MCB Sizes BS EN60989-2 & BS EN60947-2

* LTHW - Low Temperature Hot Water

* Please use adequate frost protection to ensure pipework and the unit do not freeze if the system is powered down

* Please do not use ground water or well water directly within the unit

* The water circuit must be a closed circuit

η_s is the seasonal space heating energy efficiency (SSHEE)

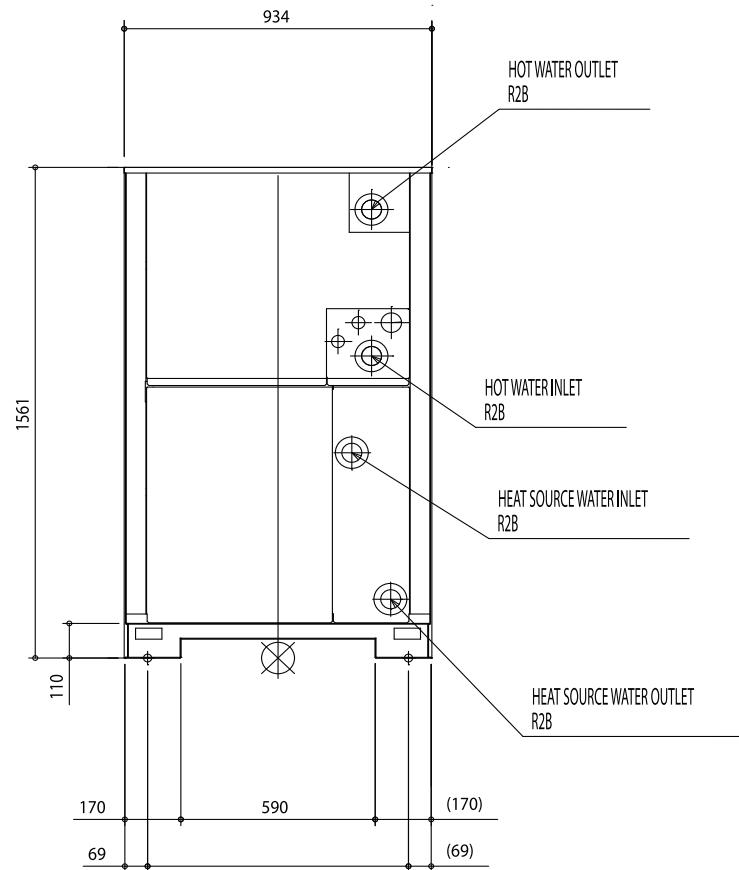
η_w is the water heating energy efficiency



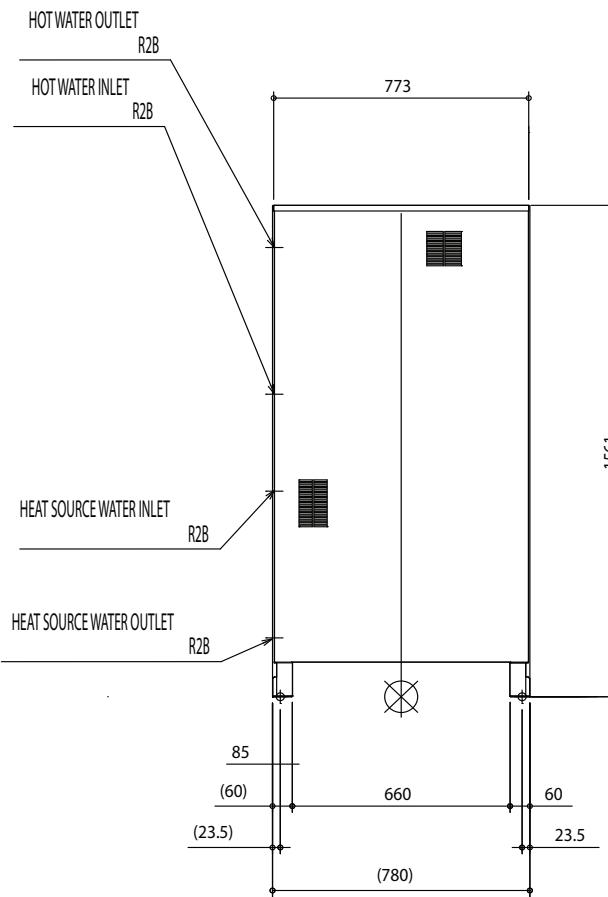
Certificate Number: MCS HP0002
Product Type: Heat Pumps
Product Reference: CRHV-P600YA-HPB

MODEL	CRHV-P600YA-HPB	
HEAT PUMP SPACE HEATER - 55°C	ErP Rating	A++
	η_s	127%
	SCOP	3.37
HEAT PUMP SPACE HEATER - 35°C	ErP Rating	A++
	η_s	153%
	SCOP	4.03
HEATING ¹ (B0/W35)	Capacity (kW)	60
	Power Input inc. pump (kW)	14.20
	COP	4.23
SEASONAL EFFICIENCY EN14825 (SPF)	B0/W35 (60kW)	4.33
HEATING ² (B0/W35)	Capacity (kW)	45
	Power Input inc. pump (kW)	10.20
SEASONAL EFFICIENCY EN14825 (SPF)	COP	4.41
HEATING ³ (W10/W35)	B0/W35 (45kW)	4.03
	Capacity (kW)	60
	Power Input inc. pump (kW)	11.90
	COP	5.08
SEASONAL EFFICIENCY EN14825 (SPF)	W10/W35 (60kW)	5.09
HEATING ⁴ (W10/W35)	Capacity (kW)	45
	Power Input inc. pump (kW)	8.89
	COP	5.11
SEASONAL EFFICIENCY EN14825 (SPF)	W10/W35 (45kW)	4.55
SOUND DATA	Pressure Level LpA at 1m (dBA)	50
	Power Level LwA (dBA) ⁵	66
WATER DATA	Flow Rate Range	1.5 to 4.1 (5.4 to 15)
	Mechanical Connections	1.5 to 4.4 (5.4 to 16)
	Heat Source Outlet (Brine) (mm ("))	50.8 (H2) screw
	Heat Source Inlet (Brine) (mm ("))	50.8 (H2) screw
	Building Side Outlet (LTHW) (mm ("))	50.8 (H2) screw
	Building Side Inlet (LTHW) (mm ("))	50.8 (H2) screw
	Operating Temperature Range	-5 to +27
	Heat Source Inlet (Brine) (°C)	-5 to +45
	Heat Source Inlet Option (Brine) (°C) ⁶	+30 to +65
	Building Side Outlet (LTHW) (°C)	Min 30% Ethylene Glycol or equivalent
DIMENSIONS	Heat Source Fluid Type ⁷	12
WEIGHT (kg)	Pressure Drop (at 1.5l/s inc 30% glycol in heat source fluid)	7
REFRIGERANT	Heat Source (Brine) (kPa)	
	Building Side (LTHW) (kPa)	1 (10)
	Heat Source (Brine) (MPa/Bar)	1 (10)
ELECTRICAL DATA	Building Side (LTHW) (MPa/Bar)	934
	Width (mm)	780
	Depth (mm)	1561
	Height (mm)	395
	Type	R410A
	Charge (kg) / CO ₂ Equivalent (t)	9 / 18.7
	Max pressure (MPa/Bar)	4.15 (41.5)
	Compressor Type	Inverter Driven
	Circuit type	Hermetically Sealed System
	Electrical Supply	415v, 50Hz
	Phase	3
	Maximum Running Current (A)	44
	Fuse Rating - MCB Size (A) ⁸	50

Front View



Side View



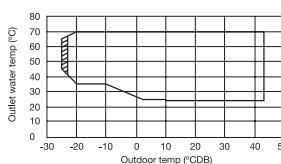


CAHV R454C Air Source Heat Pump



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.



6. 4.0 - 15.0 m³/h under the following conditions:

- When the outdoor temperature is below 0°C,
- When the outlet water temperature is 30°C or below AND the outdoor temperature is 6°C or below.

The Mitsubishi Electric Ecodan **CAHV** 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 is perfectly set up to reliably generate sustainable space heating and hot water all year round.

* At nominal conditions A7W35

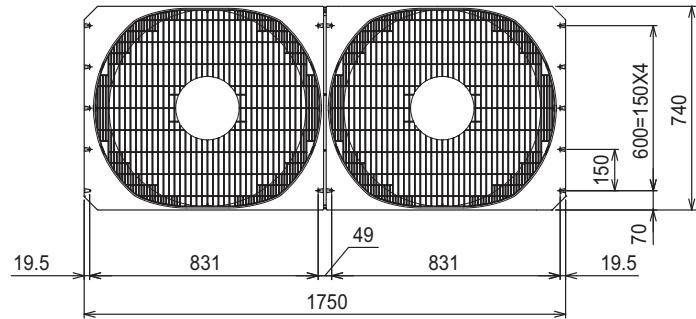
Key Features & Benefits

- Low GWP R454C refrigerant and reduced embodied carbon helps achieve CSR targets
- Achieves 70°C outlet temperature down to -2°C ambient temperature for continuous heating provision
- Multiple unit cascade control from 7.8kW to 640kW* capacity provides design flexibility for a wide range of commercial applications
- 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

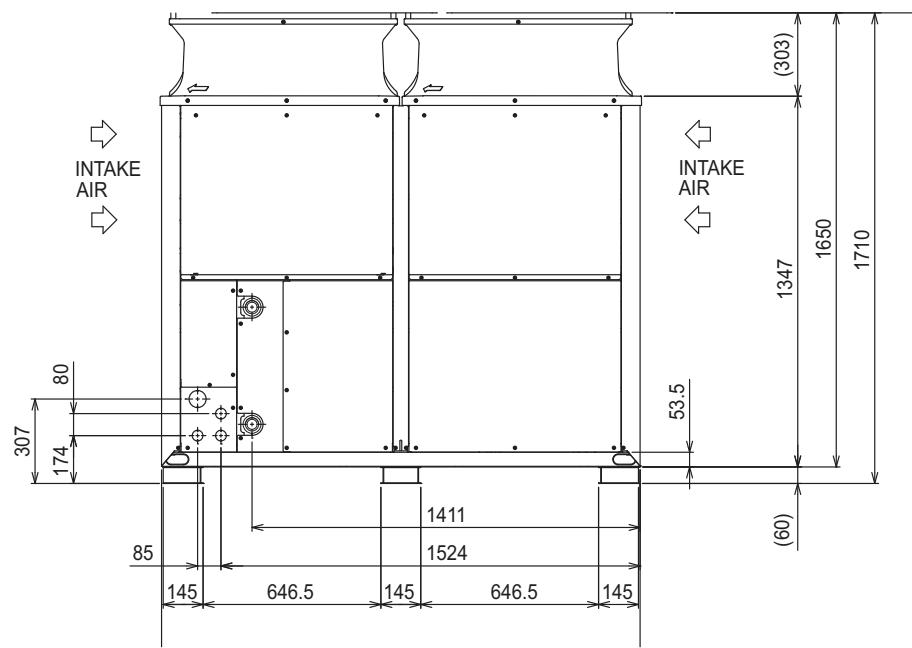


MODEL	CAHV-R450YA-HPB	
POWER SOURCE	3-phase 4-wire 380-400-415V 50/60 Hz	
CAPACITY(EN14511) ¹	kW	40
Power input	kW	14.03
Current input	A	23.7-22.5-21.7
COP (kW/kW)		2.85
SCOP Low/Medium		3.57/3.24
CAPACITY ²	kW	33.4
Power input	kW	16.6
Current input	A	28.0-26.6-25.7
COP (kW/kW)		2.01
MAXIMUM CURRENT INPUT	A	44.0-41.8-40.3
WATER PRESSURE DROP ¹		10.2 kPa (1.47 psi)
TEMPERATURE RANGE ⁵	Outlet water temperature	24 - 70°C
	Outdoor temperature	-25 - 43°C
CIRCULATING WATER VOLUME RANGE ⁵		25 l/min - 250 l/min
SOUND PRESSURE LEVEL (measured 1m below the unit in an anechoic room) ^{1/4}	dB(A)	64
SOUND PRESSURE LEVEL (measured 1m below the unit in an anechoic room) ^{3/4}	dB(A)	72
WATER PIPE DIAMETER AND TYPE	Inlet	38.1 (1 1/2"), housing type joint
	Outlet	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	3.85
	Water	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	12.1
	Lubricant	FVC32EA
FAN	Air flow rate	2500 x 2
	External static pressure	10 Pa (1mm H2O)
	Type and quantity	Propeller fan x 2
	Control and driving mechanism	Inverter control, direct driven by motor
	Motor output	0.92 x 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	R454C, 9.0 kg
	Flow and temperature control	LEV and HIC circuit

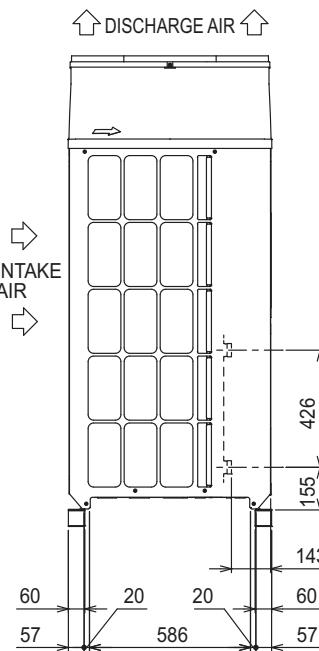
Upper View



Front View



Side View





QAHV R744 Air Source Heat Pump



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

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

Key Features & Benefits

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

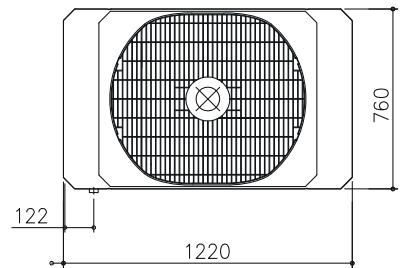


MODEL	QAHV-N560YA-HPB
WATER HEATING 65°C ¹	CAPACITY (kW) 40 POWER INPUT (kW) 10.31 CURRENT INPUT (A) 16.3 COP 3.88
WATER HEATING 65°C ²	CAPACITY (kW) 40 POWER INPUT (kW) 10.97 CURRENT INPUT (A) 18.3 COP 3.65
WATER HEATING 65°C ³	CAPACITY (kW) 40 POWER INPUT (kW) 11.6 CURRENT INPUT (A) 18.7 COP 3.44
WATER HEATING ENERGY EFFICIENCY CLASS	FOR MEDIUM TEMPERATURE APPLICATION A
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) ⁵ 40
WATER DETAIL	INLET / OUTLET (mm (in.)) 19.05 (Rc 3/4") / 19.05 (Rc 3/4") ALLOWABLE EXTERNAL PUMP HEAD (kPa) 77
DIMENSIONS (mm)	WIDTH 1220 DEPTH 760 HEIGHT 1837 (1777 without legs)
WEIGHT (kg)	400
NOISE LEVEL	SOUND PRESSURE ⁴ (dB(A)) 56
REFRIGERANT	TYPE R744 (GWP 1) REFRIGERANT CHARGE (kg) / CO ₂ EQUIVALENT (t) 6.5 / 0.0065

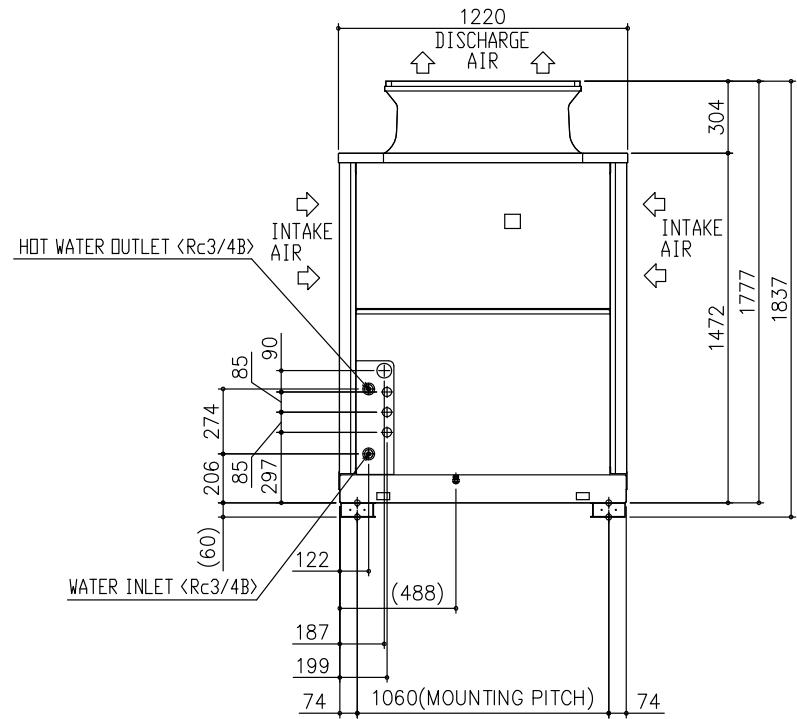
Notes:

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

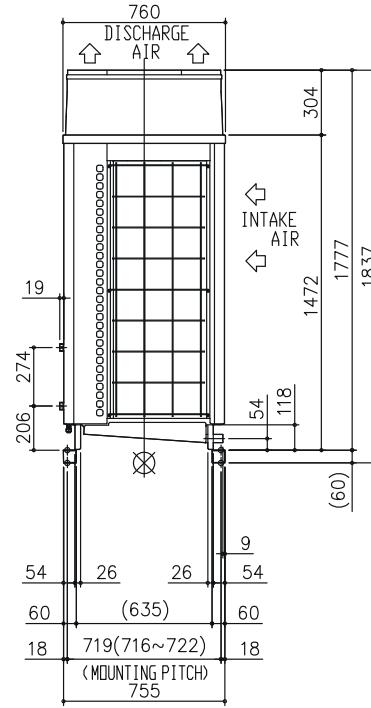
Upper View



Front View



Side View



NX2-N

R454B Air Source Heat Pump

(365 to 580kW)

Standard Version (/K)



CLIMAVENETA

Designed for medium to large capacity commercial applications, the Climaveneta **NX2-N** heat pump range is the ideal solution for LTHW in a wide range of applications. Every unit goes through rigorous end of line testing, guaranteeing performance and reliability.

Key Features & Benefits

- Lower GWP R454B refrigerant
- Wide capacity range
- Scroll compressors
- Patented fan section layout



MODEL	0344	0364	0404	0446	0506	0526	0546
POWER SUPPLY	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE							
COOLING ONLY (GROSS VALUE) ¹							
COOLING CAPACITY	kW	334.7	355	382.4	430.6	475.7	516.4
TOTAL POWER INPUT	kW	122.8	126.2	141.6	163	175.4	183.7
EER	kW/kW	2.73	2.81	3	2.64	2.71	2.81
COOLING ONLY (EN14511 VALUE) ^{1/2}							
COOLING CAPACITY	kW	334.3	354.7	382	430.2	475.1	515.9
EER	kW/kW	2.69	2.78	2.67	2.62	2.68	2.78
SEER ^{7/8}	kW/kW	3.93	4.04	4.07	4.01	3.93	4.07
PERFORMANCE $\eta_{s7/8}$ ^{7/9}	%	154	159	160	157	154	160
HEATING ONLY (GROSS VALUE) ³							
TOTAL HEATING CAPACITY	kW	364.7	386.5	414.9	469.4	512.7	560.2
TOTAL POWER INPUT	kW	119.3	124.9	134.8	155.5	168.4	181.7
COP	kW/kW	3.06	3.09	3.08	3.02	3.05	3.08
HEATING ONLY (EN14511 VALUE) ^{2/3}							
TOTAL HEATING CAPACITY	kW	365.2	387	415.4	470	513.3	560.7
COP	kW/kW	3.02	3.06	3.04	2.98	3	3.05
HEATING ONLY (EN14825 VALUE) ^{14/15}							
RATED HEATING CAPACITY AT Tdesign, h	kW	268	294	323	369	388	363
BIVALENT TEMPERATURE	°C	-7	-7	-7	-7	-7	-10
SCOP ⁴	kW/kW	3.6	3.7	3.73	3.66	3.53	3.49
SEASONAL SPACE HEATING ENERGY EFFICIENCY	%	141	145	146	143	138	137
EXCHANGERS							
HEAT EXCHANGER USER SIDE IN COOLING ¹							
WATER FLOW	l/s	16.01	16.98	18.29	20.59	22.75	24.7
PRESSURE DROP	kPa	48.1	38.5	44.7	43.4	53	43.5
HEAT EXCHANGER USER SIDE IN HEATING ³							
WATER FLOW	l/s	17.6	18.66	20.03	22.66	24.75	27.04
PRESSURE DROP	kPa	58.2	46.5	53.5	52.6	62.7	52.1
REFRIGERANT CIRCUIT							
COMPRESSORS	No.	4	4	4	6	6	6
NUMBER OF CAPACITY STEPS	No.	4	4	4	6	6	6
NO. CIRCUITS	No.	2	2	2	3	3	3
REGULATION	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
MINIMUM CAPACITY STEP	%	25	25	25	17	17	17
REFRIGERANT TYPE	R454B	R454B	R454B	R454B	R454B	R454B	R454B
REFRIGERANT CHARGE	kg	64.8	68.4	68.4	83.7	87.3	98.1
OIL CHARGE	kg	25	25	25	39	38	38
Rc (ASHRAE) ⁵	kg/kW	0.2	0.19	0.18	0.2	0.19	0.19
FANS							
QUANTITY	No.	12	12	12	10	18	18
AIR FLOW	m ³ /s	35.95	34.59	34.59	39.52	53.07	51.13
FANS POWER INPUT	kW	2	2	2	2	2	2
NOISE LEVEL							
SOUND PRESSURE ⁶	dB(A)	76	76	76	76	76	76
SOUND POWER LEVEL IN COOLING ^{10/11}	dB(A)	96	96	96	96	97	97
SOUND POWER LEVEL IN HEATING ^{10/12}	dB(A)	96	96	96	96	97	97
DIMENSIONS AND WEIGHT ¹³							
WIDTH	mm	2260	2260	2260	2260	2260	2260
DEPTH	mm	3905	3905	3905	4515	5690	5690
HEIGHT	mm	2450	2450	2450	2450	2450	2450
OPERATING WEIGHT	kg	3030	3110	3150	4040	4400	4530

Notes:

- Plant (side) cooling exchanger water (in/out) 12.00°C/7.00°C; Source (side) heat exchanger air (in) 35.0°C.
- Values in compliance with EN14511.
- Plant (side) heat exchanger water (in/out) 40.00°C/45.00°C; Source (side) heat exchanger air (in) 7.0°C - 87% R.H.
- Seasonal coefficient of performance.
- Rated in accordance with AHRI Standard 550/590.
- Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
- Parameter calculated according to [REGULATION (EU) N. 2016/2281].
- Seasonal energy efficiency ratio.
- Seasonal space cooling energy efficiency.
- Sound power on the basis of measurements made in compliance with ISO 9614.
- Sound power level in cooling, outdoors.
- Sound power level in heating, outdoors.
- Unit in standard configuration/execution, without optional accessories.
- Average Weather Conditions. Seasonal space heating efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013].
- Variable flow rate and variable temperature calculation.

NX2-N

R454B Air Source Heat Pump

(362 to 569kW)

Low Noise Version (/SL)



CLIMAVENETA

- Notes:**
1. Plant (side) cooling exchanger water (in/out) 12.00°C/7.00°C; Source (side) heat exchanger air (in) 35.0°C.
 2. Values in compliance with EN14511.
 3. Plant (side) heat exchanger water (in/out) 40.00°C/45.00°C; Source (side) heat exchanger air (in) 7.0°C - 87% R.H.
 4. Seasonal coefficient of performance.
 5. Rated in accordance with ARI Standard 550/590.
 6. Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
 7. Parameter calculated according to [REGULATION (EU) N. 2016/2281].
 8. Seasonal energy efficiency ratio.
 9. Seasonal space cooling energy efficiency.
 10. Sound power on the basis of measurements made in compliance with ISO 9614.
 11. Sound power level in cooling, outdoors.
 12. Sound power level in heating, outdoors.
 13. Unit in standard configuration/execution, without optional accessories.
 14. Average Weather Conditions. Seasonal space heating efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013].
 15. Variable flow rate and variable temperature calculation.

Designed for medium to large capacity commercial applications, the Climaveneta **NX2-N** heat pump range is the ideal solution for LTHW in a wide range of applications. Every unit goes through rigorous end of line testing, guaranteeing performance and reliability.

Key Features & Benefits

- Lower GWP R454B refrigerant
- Wide capacity range
- Scroll compressors
- Patented fan section layout



MODEL	0344	0364	0404	0446	0506	0526	0546
POWER SUPPLY	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE							
COOLING ONLY (GROSS VALUE) ¹							
COOLING CAPACITY	kW	316.4	336.8	370.6	409.4	444	486.6
TOTAL POWER INPUT	kW	128.4	132.8	144.6	170	184.7	194
EER	kW/kW	2.46	2.54	2.56	2.4	2.4	2.51
COOLING ONLY (EN14511 VALUE) ^{1/2}							
COOLING CAPACITY	kW	316	336.4	370.2	409	443.6	486.1
EER	kW/kW	2.44	2.51	2.54	2.38	2.38	2.49
SEER ^{7/8}	kW/kW	4.1	4.13	4.23	4.14	4.1	4.19
PERFORMANCE nS ^{7/9}	%	161	162	166	162	161	165
HEATING ONLY (GROSS VALUE)³							
TOTAL HEATING CAPACITY	kW	362	379.2	420.1	470.8	511.1	552
TOTAL POWER INPUT	kW	114.1	120.5	131.1	150.6	162.1	174.2
COP	kW/kW	3.17	3.15	3.2	3.13	3.15	3.17
HEATING ONLY (EN14511 VALUE) ^{1/2/3}							
TOTAL HEATING CAPACITY	kW	362.5	380	420.6	471	511.7	552.6
COP	kW/kW	3.13	3.11	3.16	3.09	3.11	3.13
HEATING ONLY (EN14825 VALUE) ^{14/15}							
RATED HEATING CAPACITY AT Tdesign, h	kW	227	252	319	294	390	356
BIVALENT TEMPERATURE	°C	-7	-7	-7	-7	-7	-7
SCOP ⁴	kW/kW	3.67	3.71	3.78	3.67	3.8	3.73
SEASONAL SPACE HEATING ENERGY EFFICIENCY	%	144	145	148	144	149	146
EXCHANGERS							
HEAT EXCHANGER USER SIDE IN COOLING ¹							
WATER FLOW	l/s	15.13	16.11	17.72	19.58	21.23	23.27
PRESSURE DROP	kPa	43	34.6	41.9	39.2	46.2	38.6
HEAT EXCHANGER USER SIDE IN HEATING ³							
WATER FLOW	l/s	17.47	18.3	20.28	22.73	24.67	26.65
PRESSURE DROP	kPa	57.4	44.7	54.9	52.9	62.3	50.6
REFRIGERANT CIRCUIT							
COMPRESSORS	No.	4	4	4	6	6	6
NUMBER OF CAPACITY STEPS	No.	4	4	4	6	6	6
NO. CIRCUITS	No.	2	2	2	3	3	3
REGULATION	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
MINIMUM CAPACITY STEP	%	25	25	25	17	17	17
REFRIGERANT TYPE		R454B	R454B	R454B	R454B	R454B	R454B
REFRIGERANT CHARGE	kg	71.9	74.1	85.2	96.3	106	112
OIL CHARGE	kg	25	25	25	39	38	38
Rc (ASHRAE) ⁵	kg/kW	0.23	0.22	0.23	0.24	0.24	0.23
FANS							
QUANTITY	No.	10	8	8	18	18	14
AIR FLOW	m ³ /s	27.28	30.33	29.48	35.07	33.16	42.86
FANS POWER INPUT	kW	1	1	1	1	1	1
NOISE LEVEL							
SOUND PRESSURE ⁶	dB(A)	68	68	68	68	68	69
SOUND POWER LEVEL IN COOLING ^{10/11}	dB(A)	88	88	88	89	89	90
SOUND POWER LEVEL IN HEATING ^{10/12}	dB(A)	89	89	89	90	90	91
DIMENSIONS AND WEIGHT¹³							
WIDTH	mm	2260	2260	2260	2260	2260	2260
DEPTH	mm	4515	5080	5080	5690	5690	6665
HEIGHT	mm	2450	2450	2450	2450	2450	2450
OPERATING WEIGHT	kg	3330	3460	3630	4640	4750	5050
							5170

NX2-N

R454B Air Source Heat Pump

(376 to 853kW)

High Efficiency Version (/A)



CLIMAVENETA

- Notes:**
1. Plant (side) cooling exchanger water (in/out) 12.00°C/7.00°C; Source (side) heat exchanger air (in) 35.0°C.
 2. Values in compliance with EN14511.
 3. Plant (side) heat exchanger water (in/out) 40.00°C/45.00°C; Source (side) heat exchanger air (in) 7.0°C - 87% R.H.
 4. Seasonal coefficient of performance.
 5. Rated in accordance with AHRI Standard 550/590.
 6. Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
 7. Parameter calculated according to [REGULATION (EU) N. 2016/2281].
 8. Seasonal energy efficiency ratio.
 9. Seasonal space cooling energy efficiency.
 10. Sound power on the basis of measurements made in compliance with ISO 9614.
 11. Sound power level in cooling, outdoors.
 12. Sound power level in heating, outdoors.
 13. Unit in standard configuration/execution, without optional accessories.
 14. Average Weather Conditions. Seasonal space heating efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013].
 15. Variable flow rate and variable temperature calculation.

Designed for medium to large capacity commercial applications, the Climaveneta **NX2-N** heat pump range is the ideal solution for LTHW in a wide range of applications. Every unit goes through rigorous end of line testing, guaranteeing performance and reliability.

Key Features & Benefits

- Lower GWP R454B refrigerant
- Wide capacity range
- Scroll compressors
- Patented fan section layout



MODEL	0344	0364	0404	0446	0506	0526	0546	0606	0708	0738	0768	0808	
POWER SUPPLY	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
PERFORMANCE													
COOLING ONLY (GROSS VALUE) ¹													
COOLING CAPACITY	kW	345.3	361.5	399.8	446.5	500	525.8	543.5	599.3	696.6	724.8	762	799.2
TOTAL POWER INPUT	kW	116.8	121.4	133.4	152	168.8	177	182.1	196.5	228.7	238.0	248.8	262
EER	kW/kW	2.96	2.98	3	2.94	2.96	2.97	2.99	3.05	3.05	3.05	3.06	3.05
COOLING ONLY (EN14511 VALUE) ^{1/2}													
COOLING CAPACITY	kW	344.9	361.1	399.3	446	499.5	525.3	543	598.8	696	724.2	761.4	798.6
EER	kW/kW	2.92	2.95	2.96	2.9	2.92	2.94	2.95	3.01	3.01	3.01	3.03	3.02
SEER ^{7/8}	kW/kW	4.28	4.39	4.44	4.4	4.28	4.37	4.37	4.56	4.56	4.56	4.58	4.56
PERFORMANCE nS ^{7/9}	%	168	172	175	171	168	172	172	180	179	180	180	179
HEATING ONLY (GROSS VALUE) ³													
TOTAL HEATING CAPACITY	kW	376.3	397.2	426.7	492.5	531	573.6	596	640	752.7	794.7	825.4	853.3
TOTAL POWER INPUT	kW	116.4	123	131.8	153.1	164.1	177.1	184	193.6	227.6	239.7	250.1	258.1
COP	kW/kW	3.23	3.23	3.24	3.22	3.24	3.24	3.24	3.31	3.31	3.32	3	3.31
HEATING ONLY (EN14511 VALUE) ^{1/2}													
TOTAL HEATING CAPACITY	kW	376.8	397.7	427.2	493.1	531.6	574.2	596.6	640.6	753.4	795.3	826	854.1
COP	kW/kW	3.19	3.19	3.2	3.17	3.19	3.2	3.2	3.26	3.26	3.28	3.26	3.26
HEATING ONLY (EN14825 VALUE) ^{14/15}													
RATED HEATING CAPACITY AT Tdesign, h	kW	271	296	321	368	386	356	371	-	-	-	-	-
BIVALENT TEMPERATURE	°C	-7	-7	-7	-7	-7	-10	-10	-	-	-	-	-
SCOP ⁴	kW/kW	3.76	3.83	3.79	3.9	3.81	3.8	3.83	-	-	-	-	-
SEASONAL SPACE HEATING ENERGY EFFICIENCY	%	147	150	149	153	149	149	150	-	-	-	-	-
EXCHANGERS													
HEAT EXCHANGER USER SIDE IN COOLING ¹													
WATER FLOW	l/s	16.51	17.29	19.12	21.35	23.91	25.14	25.99	28.7	33.3	34.7	36.4	38.2
PRESSURE DROP	kPa	51.2	39.9	48.8	46.7	58.5	45.1	48.2	51.1	50.3	40.5	44.7	49.2
HEAT EXCHANGER USER SIDE IN HEATING ³													
WATER FLOW	l/s	18.17	19.17	20.6	23.77	25.63	27.69	28.77	30.9	36.3	38.4	39.8	41.2
PRESSURE DROP	kPa	62	49.1	56.6	57.9	67.3	54.6	59	59.4	59.9	49.6	53.5	57.2
REFRIGERANT CIRCUIT													
COMPRESSORS	No.	4	4	4	6	6	6	6	8	8	8	8	8
NUMBER OF CAPACITY STEPS	No.	4	4	4	6	6	6	6	8	8	8	8	8
NO. CIRCUITS	No.	2	2	2	3	3	3	3	4	4	4	4	4
REGULATION	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
MINIMUM CAPACITY STEP	%	25	25	25	17	17	17	17	12.5	12.5	12.5	12.5	12.5
REFRIGERANT TYPE	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B
REFRIGERANT CHARGE	kg	81	86.4	86.9	109	112	124	133	162	173	174	176	176
OIL CHARGE	kg	25	25	25	39	38	38	38	50	50	50	50	50
Rc (ASHRAE) ⁵	kg/kW	0.24	0.24	0.22	0.25	0.23	0.24	0.25	0.22	0.23	0.24	0.23	0.22
FANS													
QUANTITY	No.	8	8	8	16	12	12	12	16	16	16	16	16
AIR FLOW	m ³ /s	47.93	46.12	46.12	56.58	70.76	68.18	69.18	95.87	92.24	92.24	92.24	92.24
FANS POWER INPUT	kW	2	2	2	2	2	2	2	2	2	2	2	2
NOISE LEVEL													
SOUND PRESSURE ⁶	dB(A)	77	77	77	76	77	77	78.0	77.0	78.0	78.0	78.0	78
SOUND POWER LEVEL IN COOLING ^{10/11}	dB(A)	97	97	97	97	98	98	98	99.0	100.0	100	100	100
SOUND POWER LEVEL IN HEATING ^{10/12}	dB(A)	97	97	97	97	98	98	98	-	-	-	-	-
DIMENSIONS AND WEIGHT ¹³													
WIDTH	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
DEPTH	mm	5080	5080	5080	6255	7430	7430	7430	9780	9780	9780	9780	9780
HEIGHT	mm	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450
OPERATING WEIGHT	kg	3350	3440	3480	4650	4900	5060	5140	5200	6580	6760	6800	6840

FOCS-N

R513A Air Source Heat Pump

(465 to 584kW)

Low Noise, High Efficiency Version (/SL-CA)



CLIMAVENETA

Notes:

1. Plant (side) cooling exchanger water (in/out) 12.00°C/7.00°C; Source (side) heat exchanger air (in) 35.0°C.
2. Values in compliance with EN14511.
3. Plant (side) heat exchanger water (in/out) 40.00°C/45.00°C; Source (side) heat exchanger air (in) 7.0°C - 87% R.H.
4. Seasonal Coefficient of Performance.
5. European seasonal energy efficiency ratio.
6. Average Weather Conditions. Seasonal space heating efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013].
7. Fixed flow rate and variable temperature calculation.
8. Rated in accordance with AHRI Standard 550/590.
9. Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
10. Sound power on the basis of measurements made in compliance with ISO 9614.
11. Sound power level in cooling, outdoors.
12. Sound power level in heating, outdoors.
13. Unit in standard configuration/execution, without optional accessories.

Designed for medium to large capacity LTHW commercial applications, the Climaveneta **FOCS-N** heat pump features screw compressors and is suitable for a wide range of projects. The new generation of air source heat pump has been perfectly designed for reducing operating costs, while keeping an extremely compact design.

Key Features & Benefits

- Compact design
- Lower GWP R513A refrigerant
- Screw compressors



MODEL	2022	2222	2422	2622
POWER SUPPLY	V/ph/Hz	400/3/50	400/3/50	400/3/50
PERFORMANCE				
COOLING ONLY (GROSS VALUE) ¹				
COOLING CAPACITY	kW	440.7	487.9	519.6
TOTAL POWER INPUT	kW	169.4	178.7	192.6
EER	kW/kW	2.6	2.73	2.7
ESEER ⁵	kW/kW	3.76	3.84	3.83
COOLING ONLY (EN14511 VALUE) ¹¹²				
COOLING CAPACITY	kW	439.6	486.6	518
EER	kW/kW	2.58	2.7	2.67
ESEER ⁵	kW/kW	3.67	3.74	3.71
HEATING ONLY (GROSS VALUE)³				
TOTAL HEATING CAPACITY	kW	465.6	519.6	551.8
TOTAL POWER INPUT	kW	147.7	160.8	172.4
COP	kW/kW	3.15	3.23	3.2
HEATING ONLY (EN14511 VALUE) ¹²³				
TOTAL HEATING CAPACITY	kW	466.9	521.2	553.7
COP	kW/kW	3.13	3.21	3.18
HEATING ONLY (EN14825 VALUE) ⁶⁷				
RATED HEATING CAPACITY AT Tdesign, h	kW	340	371	365
BIVALENT TEMPERATURE	°C	-7	-7	-9
SCOP ⁴	kW/kW	3.39	3.44	3.41
SEASONAL SPACE HEATING ENERGY EFFICIENCY	%	132	135	134
EXCHANGERS				
HEAT EXCHANGER USER SIDE IN COOLING ¹				
WATER FLOW	l/s	21.08	23.33	24.85
PRESSURE DROP	kPa	28.8	32.5	36.8
HEAT EXCHANGER USER SIDE IN HEATING ³				
WATER FLOW	l/s	22.47	25.08	26.64
PRESSURE DROP	kPa	32.7	37.5	42.3
REFRIGERANT CIRCUIT				
COMPRESSORS	No.	2	2	2
NUMBER OF CAPACITY STEPS	No.	0	0	0
NO. CIRCUITS	No.	2	2	2
REGULATION		STEPLESS	STEPLESS	STEPLESS
MINIMUM CAPACITY STEP	%	25	25	25
REFRIGERANT TYPE		R513A	R513A	R513A
REFRIGERANT CHARGE	kg	243	268	285
OIL CHARGE	kg	44	44	44
Rc (ASHRAE) ⁸	kg/kW	0.56	0.55	0.55
FANS				
QUANTITY	No.	10	12	12
AIR FLOW	m ³ /s	35.07	46.62	42.44
FANS POWER INPUT	kW	1.1	1.1	1.1
NOISE LEVEL				
SOUND PRESSURE ⁹	dBA	69	70	70
SOUND POWER LEVEL IN COOLING ¹⁰¹¹	dBA	89	91	91
SOUND POWER LEVEL IN HEATING ¹⁰¹²	dBA	90	92	92
DIMENSIONS AND WEIGHT¹³				
WIDTH	mm	2260	2260	2260
DEPTH	mm	4900	5800	5800
HEIGHT	mm	2430	2430	2430
OPERATING WEIGHT	kg	6190	6680	6770
NX2-N R454B Air Source Heat Pump, High Efficiency Version				
FOCS-N R513A Air Source Heat Pump, Low Noise, High Efficiency Version				

FOCS-N

R513A Air Source Heat Pump

(474 to 596kW)

High Efficiency Version (/CA)



CLIMAVENETA

- Notes:**
- Plant (side) cooling exchanger water (in/out) 12.00°C/7.00°C; Source (side) heat exchanger air (in) 35.0°C.
 - Values in compliance with EN14511.
 - Plant (side) heat exchanger water (in/out) 40.00°C/45.00°C; Source (side) heat exchanger air (in) 7.0°C - 87% R.H.
 - Seasonal Coefficient of Performance.
 - European seasonal energy efficiency ratio.
 - Average Weather Conditions. Seasonal space heating efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013].
 - Fixed flow rate and variable temperature calculation.
 - Rated in accordance with AHRI Standard 550/590.
 - Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
 - Sound power level on the basis of measurements made in compliance with ISO 9614.
 - Sound power level in cooling, outdoors.
 - Sound power level in heating, outdoors.
 - Unit in standard configuration/execution, without optional accessories.

Designed for medium to large capacity LTHW commercial applications, the Climaveneta **FOCS-N** heat pump features screw compressors and is suitable for a wide range of projects. The new generation of air source heat pump has been perfectly designed for reducing operating costs, while keeping an extremely compact design.

Key Features & Benefits

- Compact design
- Lower GWP R513A refrigerant
- Screw compressors



MODEL	2022	2222	2422	2622
POWER SUPPLY	V/ph/Hz	400/3/50	400/3/50	400/3/50
PERFORMANCE				
COOLING ONLY (GROSS VALUE) ¹				
COOLING CAPACITY	kW	459.6	502.8	537.8
TOTAL POWER INPUT	kW	164	176.2	188.1
EER	kW/kW	2.8	2.85	2.86
ESEER ⁵	kW/kW	3.82	3.85	3.85
COOLING ONLY (EN14511 VALUE) ^{11/2}				
COOLING CAPACITY	kW	458.4	501.4	536.1
EER	kW/kW	2.77	2.82	2.82
ESEER ⁵	kW/kW	3.72	3.75	3.73
HEATING ONLY (GROSS VALUE) ³				
TOTAL HEATING CAPACITY	kW	474.9	525.3	558.7
TOTAL POWER INPUT	kW	149.3	162.5	174.2
COP	kW/kW	3.18	3.23	3.21
HEATING ONLY (EN14511 VALUE) ²³				
TOTAL HEATING CAPACITY	kW	476.3	526.9	560.6
COP	kW/kW	3.16	3.21	3.18
HEATING ONLY (EN14825 VALUE) ^{6/7}				
RATED HEATING CAPACITY AT Tdesign, h	kW	342	372	361
BIVALENT TEMPERATURE	°C	-7	-7	-9
SCOP ⁴	kW/kW	3.38	3.41	3.38
SEASONAL SPACE HEATING ENERGY EFFICIENCY	%	132	133	132
EXCHANGERS				
HEAT EXCHANGER USER SIDE IN COOLING ¹				
WATER FLOW	l/s	21.98	24.05	25.72
PRESSURE DROP	kPa	31.3	34.5	39.4
HEAT EXCHANGER USER SIDE IN HEATING ³				
WATER FLOW	l/s	22.92	25.36	26.97
PRESSURE DROP	kPa	34.1	38.3	43.4
REFRIGERANT CIRCUIT				
COMPRESSORS	No.	2	2	2
NUMBER OF CAPACITY STEPS	No.	0	0	0
NO. CIRCUITS	No.	2	2	2
REGULATION		STEPLESS	STEPLESS	STEPLESS
MINIMUM CAPACITY STEP	%	25	25	25
REFRIGERANT TYPE		R513A	R513A	R513A
REFRIGERANT CHARGE	kg	233	256	253
OIL CHARGE	kg	44	44	44
Rc (ASHRAE) ⁸	kg/kW	0.51	0.51	0.48
FANS				
QUANTITY	No.	10	12	12
AIR FLOW	m ³ /s	50.61	65.6	61.02
FANS POWER INPUT	kW	2	2	2
NOISE LEVEL				
SOUND PRESSURE ⁹	dB(A)	79	80	80
SOUND POWER LEVEL IN COOLING ^{10/11}	dB(A)	99	101	101
SOUND POWER LEVEL IN HEATING ^{10/12}	dB(A)	99	101	101
DIMENSIONS AND WEIGHT¹³				
WIDTH	mm	2260	2260	2260
DEPTH	mm	4900	5800	5800
HEIGHT	mm	2430	2430	2430
OPERATING WEIGHT	kg	6050	6630	6710

i-FX-N

R513A Air Source Heat Pump

(452 to 1,111kW)

High Efficiency Version (/A)



CLIMAVENETA

Notes:

- Plant (side) cooling exchanger water (in/out) 12.00°C/7.00°C; Source (side) heat exchanger air (in) 35.0°C.
- Values in compliance with EN14511.
- Plant (side) heat exchanger water (in/out) 40.00°C/45.00°C; Source (side) heat exchanger air (in) 7.0°C - 87% R.H.
- Seasonal Coefficient of Performance.
- European seasonal energy efficiency ratio.
- Average Weather Conditions, Seasonal space heating efficiency class LOW TEMPERATURE (REGULATION (EU) N. 813/2013).
- Variable flow rate and variable temperature calculation.
- Rated in accordance with AHRI Standard 550/590.
- Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
- Sound power on the basis of measurements made in compliance with ISO 9614.
- Sound power level in cooling, outdoors.
- Sound power level in heating, outdoors.
- Unit in standard configuration/execution, without optional accessories.

Designed for medium to large capacity LTHW commercial applications, the Climaveneta i-FX-N heat pump features inverter driven screw compressors and is suitable for a wide range of projects. The new generation of air source heat pump has been perfectly designed for reducing operating costs, while keeping an extremely compact design.

Key Features & Benefits

- Total Inverter Technology
- Lower GWP R513A refrigerant
- Inverter screw compressors



MODEL	0472	0512	0572	0602	0652	0772	0902	1002	1152	
POWER SUPPLY	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
PERFORMANCE										
COOLING ONLY (GROSS VALUE) ¹										
COOLING CAPACITY	kW	465	517.9	549.9	590.8	669.9	764.1	899	1034	1154
TOTAL POWER INPUT	kW	166	177.9	194.2	211.1	238	265.5	314	351.4	390.5
EER	kW/kW	2.8	2.91	2.8	2.8	2.82	2.9	2.86	2.94	2.96
ESEER ⁵	kW/kW	4.56	4.66	4.66	4.61	4.51	4.55	4.58	4.66	4.7
COOLING ONLY (EN14511 VALUE) ^{11/2}										
COOLING CAPACITY	kW	464.6	517.4	549	590.4	669.4	763.6	898.8	1033	1153
EER	kW/kW	2.78	2.9	2.8	2.78	2.79	2.85	2.84	2.91	2.93
ESEER ⁵	kW/kW	4.41	4.49	4.47	4.48	4.36	4.41	4.44	4.5	4.56
HEATING ONLY (GROSS VALUE) ³										
TOTAL HEATING CAPACITY	kW	452.8	506.3	547.4	575.3	663.8	747.6	871.4	1006	1111
TOTAL POWER INPUT	kW	139.1	152.6	166	174.8	202.2	223.2	261.3	293.8	327.5
COP	kW/kW	3.26	3.32	3.3	3.3	3.28	3.35	3.34	3.42	3.4
HEATING ONLY (EN14511 VALUE) ²³										
TOTAL HEATING CAPACITY	kW	453.2	506.8	547.9	575.7	664	748.1	872	1007	1112
COP	kW/kW	3.23	3.29	3.26	3.27	3.26	3.32	3.31	3.39	3.36
HEATING ONLY (EN14825 VALUE) ^{8/7}										
RATED HEATING CAPACITY AT Tdesign, h	kW	348	384	-	-	-	-	-	-	-
BIVALENT TEMPERATURE	°C	-7	-7	-	-	-	-	-	-	-
SCOP ⁴	kW/kW	4.00	4.03	-	-	-	-	-	-	-
SEASONAL SPACE HEATING ENERGY EFFICIENCY %	%	157	158	-	-	-	-	-	-	-
EXCHANGERS										
HEAT EXCHANGER USER SIDE IN COOLING ¹										
WATER FLOW	l/s	22.24	24.76	26.29	28.25	32.04	36.5	43	49.43	55.17
PRESSURE DROP	kPa	32	36.6	41.2	27	33.3	34.3	32.4	42.8	37.5
HEAT EXCHANGER USER SIDE IN HEATING ³										
WATER FLOW	l/s	21.86	24.44	26.42	27.77	32.04	36.09	42.1	48.56	53.64
PRESSURE DROP	kPa	31	35.6	41.6	26	33.30	33.4	31	41.3	35.4
REFRIGERANT CIRCUIT										
COMPRESSORS	No.	2	2	2	2	2	2	2	2	2
NUMBER OF CAPACITY STEPS	No.	0	0	0	0	0	0	0	0	0
NO. CIRCUITS	No.	2	2	2	2	2	2	2	2	2
REGULATION	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS
MINIMUM CAPACITY STEP %	-	-	-	-	-	-	-	-	-	-
REFRIGERANT TYPE	R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A
REFRIGERANT CHARGE	kg	233	259	253	276	288	391	495	518	618
OIL CHARGE	kg	44	44	44	44	38	60	60	60	60
Rc (ASHRAE) ⁸	kg/kW	0.51	0.51	0.46	0.47	0.43	0.52	0.56	0.51	0.54
FANS										
QUANTITY	No.	10	12	12	12	14	16	20	24	24
AIR FLOW	m ³ /s	48.5	58.37	58.37	58.37	69.25	79.14	97.00	121.01	116.73
FANS POWER INPUT	kW	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
NOISE LEVEL										
SOUND PRESSURE ⁹	dB(A)	80	81	81	81	81	81	81	82	82
SOUND POWER LEVEL IN COOLING ^{10/11}	dB(A)	100	102	102	102	102	103	103	105	105
SOUND POWER LEVEL IN HEATING ^{10/12}	dB(A)	101	103	103	103	103	104	104	106	106
DIMENSIONS AND WEIGHT ¹³										
WIDTH	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
DEPTH	mm	4900	5800	5800	5800	7000	7900	10000	11800	11800
HEIGHT	mm	2580	2580	2580	2580	2580	2580	2580	2580	2580
OPERATING WEIGHT	kg	6400	6894	7033	7256	7518	8551	9835	11578	12651

AW-HT

R407C Air Source Heat Pump

(28 to 139kW)

High Efficiency Version (/CA-E)



 CLIMAVENETA

Notes

- 1. Plant (side) heat exchanger water (in/out) 40.00°C/45.00°C, Source (side) heat exchanger air (in) 7.0 °C - 87% RH
 - 2. Average Weather conditions, Seasonal space heating efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013].
 - 3. Fixed flow rate and fixed temperature calculation.
 - 4. Seasonal Coefficient of Performance.
 - 5. Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
 - 6. Sound power on the basis of measurements made in compliance with ISO 9614.
 - 7. Sound power level in heating, outdoors.
 - 8. Unit is standard configuration/executing, without optional accessories.

Designed for medium capacity commercial applications, the Climaveneta **AW-HT** heat pump system is the ideal solution for a wide range of applications requiring both LTHW and DHW.

Key Features & Benefits

- Maximum operating reliability
 - Cascade control
 - Scroll compressors



MODEL		0122	0152	0202	0262	0302	0404	0524	0604
POWER SUPPLY	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE ¹									
HEATING CAPACITY	38	51.3	68.8	84.9	102	135	171	205	
TOTAL POWER INPUT (UNIT)	10.7	14.4	19.4	23.6	27.7	39.6	48.1	58.9	
COP	3.6	3.6	3.6	3.6	3.7	3.4	4	3	
HEATING ONLY (EN14825 VALUE) ^{2/3}									
RATED HEATING CAPACITY AT Tdesign, h	kW	28.4	33.8	47.5	58.5	70.6	92.6	117	139
BIVALENT TEMPERATURE	°C	-6	-7	-7	-7	-7	-7	-7	-7
SCOP ⁴	kW/kW	3.12	3.07	3.14	3.2	3.3	3.15	3.32	3.22
SEASONAL SPACE HEATING ENERGY EFFICIENCY	%	122	120	123	125	129	123	130	126
EXCHANGERS ¹									
HEAT EXCHANGER WATER FLOW	l/s	1.8	2.48	3.3	4.11	4.92	6.5	8.25	9.89
HEAT EXCHANGER PRESSURE DROP	kPa	10.2	12.9	14.6	18.3	22.9	25.40	28.60	31.30
REFRIGERANT CIRCUIT									
COMPRESSORS	No.	2	2	2	2	2	4	4	4
NUMBER OF CIRCUITS	No.	2	2	2	2	2	4	4	4
TYPE OF REGULATION	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
MINIMUM CAPACITY STEPS	%	50	50	50	50	50	25	25	25
TYPE OF REFRIGERANT	R407C	R407C	R407C	R407C	R407C	R407C	R407C	R407C	R407C
REFRIGERANT CHARGE	kg	18	26	30	33	40	66	108	108
OIL CHARGE	kg	3.8	8.0	8.0	8.2	8.2	16	16.4	16.4
FANS									
NUMBER	No.	4	6	8	8	8	4	4	6
AIR FLOW	l/s	1.43	2.09	2.89	2.94	2.89	4.4	5	7
SINGLE POWER INPUT	kW	0.25	0.25	0.25	0.25	0.25	1.2	1.2	1.2
NOISE LEVEL ^{5/6}									
SOUND POWER LEVEL ⁷	dB(A)	84	86	87	87	87	86	86	87
SOUND PRESSURE LEVEL ⁷	dB(A)	-	-	-	-	-	67	66	67
DIMENSIONS AND WEIGHT ⁸									
WIDTH	mm	1120	1120	1120	1120	1120	2220	2220	2220
DEPTH	mm	1695	2195	2745	2745	2745	3110	4110	4110
HEIGHT	mm	1420	1420	1420	1620	1620	2150	2150	2150
OPERATING WEIGHT	kg	510	750	870	940	1030	1960	2410	2540

EW-HT

R134a Water to Water Heat Pump

(70 to 279kW)



CLIMAVENETA

Notes:

1. Plant (side) heat exchanger water (in/out) 70°C/78°C; Source (side) heat exchanger water (in/out) 45°C/40°C.
 2. Values in compliance with EN14511.
 3. Seasonal space heating energy efficiency class MEDIUM TEMPERATURE in AVERAGE climate conditions. [REGULATION (EU) N. 813/2013].
 4. Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
 5. Sound power on the basis of measurements made in compliance with ISO 9614.
 6. Sound power level in heating, indoors.
 7. Unit in standard configuration/execution, without optional accessories.
 8. Seasonal space heating energy efficiency.
 9. Fixed flow rate and variable temperature calculation.
- The units highlighted in this publication contain HFC R134a [GWP1001430] fluorinated greenhouse gases.

The Climaveneta **EW-HT** is perfect for applications where very high temperature water is needed. With the ability to provide hot water up to 78°C, and when used in combination with our INTEGRA range of 4-pipe systems, the operating parameters of the EW-HT make it the ideal solution for a wide range of applications. Applications such as residential and commercial buildings, industrial process heat recovery (including IT Cooling) and district heating systems.

Key Features & Benefits

- Wide operating range, with hot water production up to 78°C (evaporator water outlet up to 40°C)
- Maximum reliability with two independent refrigerant circuits, designed to ensure maximum efficiency at full load
- Compact design
- Electronic expansion valve supplied as standard



MODEL	0152	0182	0202	0262	0302	0412	0512	0612
POWER SUPPLY	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE - HEATING ONLY¹								
HEATING CAPACITY	kW	70.2	79.3	92.5	113	139	181	225
TOTAL POWER INPUT	kW	17.0	18.9	22.0	27.9	34.2	43.7	55.1
COP	kW/kW	4.13	4.20	4.20	4.05	4.08	4.14	4.08
PERFORMANCE - HEATING ONLY (EN14511 VALUE)^{1/2}								
HEATING CAPACITY	kW	70.4	79.5	92.7	113	140	181	225
COP	kW/kW	4.01	4.07	4.08	3.94	3.98	4.04	4.01
SEASONAL ENERGY EFFICIENCY (REG. EU 813/2013)^{3/9}								
PDESIGN	kW	38.6	43.6	50.0	61.6	78.1	104	128
SCOP		3.27	3.39	3.45	3.30	3.30	3.25	3.27
PERFORMANCE η_{S^8}	%	123	128	130	124	124	122	123
EXCHANGERS¹								
HEAT EXCHANGER WATER FLOW (USER / SOURCE)	l/s	2.15 / 2.62	2.42 / 2.97	2.83 / 3.47	3.45 / 4.19	4.26 / 5.18	5.52 / 6.74	6.87 / 8.35
HEAT EXCHANGER PRESSURE DROP (USER / SOURCE)	kPa	23.9 / 45.4	25.0 / 46.7	24.2 / 51.8	24.2 / 53.8	19.7 / 49.7	19.8 / 50.1	19.8 / 37.6
REFRIGERANT CIRCUIT								
COMPRESSORS	No.	2	2	2	2	2	2	2
NUMBER OF CIRCUITS	No.	2	2	2	2	2	2	2
TYPE OF REGULATION	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
MINIMUM CAPACITY STEPS	%	50	50	50	50	50	50	50
TYPE OF REFRIGERANT	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a
REFRIGERANT CHARGE	kg	6	7	8	9	10	11	12
OIL CHARGE	kg	5	7	7	7	7	9	14
NOISE LEVEL								
SOUND POWER LEVEL ^{5/6}	dB(A)	74	74	74	76	76	78	78
SOUND PRESSURE LEVEL ¹⁴	dB(A)	58	58	58	60	60	62	64
DIMENSIONS AND WEIGHT⁷								
WIDTH	mm	1223	1223	1223	1223	1223	1223	1223
DEPTH	mm	877	877	877	877	877	877	877
HEIGHT	mm	1496	1496	1496	1496	1496	1496	1496
OPERATING WEIGHT	kg	365	380	390	415	430	610	675

Commercial Heat Pumps & Chillers

Our Chiller Range - An Overview

Consisting of a wide range of models, the Mitsubishi Electric range of chillers are a new generation of water chiller designed for comfort and process cooling applications.

Modern multi-function buildings, shopping centres, large business centres and process cooling are just some of the examples where increased comfort and precision control are required. The Mitsubishi Electric range of chillers can deliver all of this and more through their ability to be easily integrated into ever increasingly complex building systems.

In order to maximise performance, reliability and overall system efficiency, the Mitsubishi Electric range of products bring advanced technology and know-how together in customisable packages to aid design, specification, installation and on-going operation.

- Advanced modular technology
- Scalable and fully customisable
- Air source and water cooled versions
- Plate or Shell & Tube heat exchanger options



Flexible Application Options

Comfort Cooling

By using hydronic terminals, a simple application of a chiller can include cooling a space or environment to a set temperature. By using water as the medium of energy, high sensible cooling and stable room temperatures can be achieved.

- | | |
|---|---|
| <ul style="list-style-type: none"> ■ Retail stores / Shopping centres ■ Airports ■ Offices ■ Cinemas / Theatres | <ul style="list-style-type: none"> ■ Schools / Universities ■ Museums ■ Hotels and Resorts ■ Hospitals / Healthcare |
|---|---|

Process Cooling

During manufacturing processes, many substances become hot and if overheated can negatively effect the productivity and efficiency of the process. By correctly applying a chiller it is possible to ensure optimum temperatures and conditions are maintained at a steady state.

- Manufacturing processes
- Automotive and Electronic processes
- Energy and Power generation
- Industrial technology
- IT Cooling



Commercial Heat Pumps & Chillers

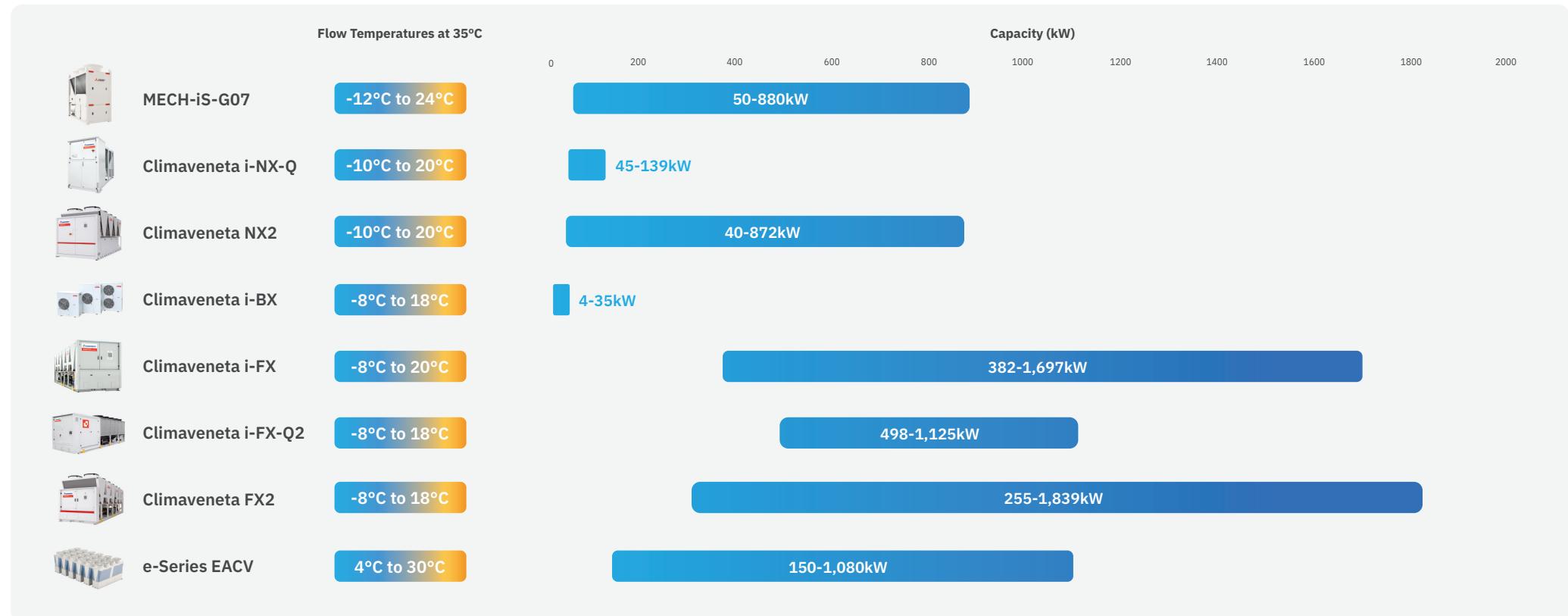
Our Chiller range at a glance

A wide range of advanced, customisable models for use in efficiently cooling a space or an environment to a set temperature. Our chillers fall into two broad ranges:



Mitsubishi Electric - Modular chillers manufactured to the highest quality standard, and suitable for a range of different applications, from comfort to industrial and even IT cooling processes.

Climaveneta - Chillers that use a wide range of low and lower GWP refrigerants, alongside the latest fixed/inverter scroll and screw compressors.



MECH-iS-G07

R32 Modular Air Cooled Chiller

(50kW to 880kW)


Notes:

1. Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
2. Plant (side) cooling exchanger water (in/out) 16°C/10°C; Source (side) heat exchanger air (in) 35°C.
3. Plant (side) cooling exchanger water (in/out) 23°C/15°C; Source (side) heat exchanger air (in) 35°C.
4. Values in compliance with EN14511.
5. Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C; Plant (side) heat exchanger recovery water (in/out) 40°C/45°C.
6. Rated in accordance with AHRI Standard 550/590.
7. Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
8. Sound power on the basis of measurements taken in compliance with ISO 9614.
9. Sound power level in cooling, outdoors.
10. Unit in standard configuration, without optional accessories.

Eurovent Certified Data

For dimensional drawings of this model please see page 2.11

Mitsubishi Electric's new **MECH-iS-G07** chiller range is manufactured to the highest quality standards. Featuring a compact design and modular expansion capabilities, it is suitable for many different applications, from comfort to industrial applications and even IT cooling processes.

Key Features & Benefits

- Wide water temperatures from -12°C to +24°C
- Best-in-class for low noise levels
- Compact design and modular expansion
- New Smart Coordinated Defrost
- Exceptional performance at part load operating conditions



MODEL	0051	0061	0071	0082	0092	0102	0112
POWER SUPPLY	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE							
COOLING ONLY (GROSS VALUE)							
COOLING CAPACITY ¹	kW	50.09	60.11	70.14	80.14	90.23	100.2
TOTAL POWER INPUT ¹	kW	15.16	19.13	26.89	26.24	32.57	31.43
EER ¹	kW/kW	3.296	3.147	2.606	3.057	2.767	3.191
COOLING ONLY (EN14511 VALUE)							
COOLING CAPACITY	kW	50.0	60.0	70.0	80.0	90.0	100.0
EER ^{1,4}	kW/kW	3.28	3.11	2.58	3.02	2.74	3.15
COOLING WITH PARTIAL RECOVERY							
COOLING CAPACITY ⁵	kW	51.97	62.36	72.77	83.15	93.61	104.0
TOTAL POWER INPUT ⁵	kW	14.66	18.50	25.99	25.37	31.48	30.39
DESUPERHEATER HEATING CAPACITY ⁵	kW	12.68	16.19	23.11	22.16	27.82	26.37
EXCHANGERS							
HEAT EXCHANGER USER SIDE IN COOLING							
WATER FLOW ¹	l/s	2.395	2.874	3.354	3.833	4.315	4.792
PRESSURE DROP AT THE HEAT EXCHANGER ¹	kPa	15.6	22.5	30.6	23.6	29.9	28.3
PARTIAL RECOVERY USER SIDE IN REFRIGERATION							
WATER FLOW ¹	l/s	0.612	0.781	1.116	1.070	1.343	1.273
PRESSURE DROP AT THE HEAT EXCHANGER ¹	kPa	8.57	14.0	28.5	12.9	20.4	12.9
PERFORMANCE							
COOLING ONLY (GROSS VALUE)							
16°C/10°C							
COOLING CAPACITY ²	kW	54.69	65.32	75.82	87.60	98.20	109.4
TOTAL POWER INPUT ²	kW	15.47	19.61	27.69	26.82	33.41	32.06
EER ²	kW/kW	3.529	3.332	2.736	3.269	2.940	3.408
23°C/15°C							
COOLING CAPACITY ³	kW	62.37	73.93	85.00	100.1	111.5	124.7
TOTAL POWER INPUT ³	kW	15.86	20.25	28.85	27.55	34.52	32.81
EER ³	kW/kW	3.925	3.640	2.941	3.640	3.232	3.802
EXCHANGERS							
16°C/10°C							
WATER FLOW ²	l/s	2.181	2.605	3.024	3.494	3.917	4.362
PRESSURE DROP AT THE HEAT EXCHANGER ¹	kPa	12.9	18.5	24.9	19.6	24.7	23.4
23°C/15°C							
WATER FLOW ³	l/s	1.868	2.215	2.546	2.999	3.339	3.735
PRESSURE DROP AT THE HEAT EXCHANGER ¹	kPa	9.50	13.3	17.6	14.5	17.9	17.2
REFRIGERANT CIRCUIT							
COMPRESSORS NR.	No.	1	1	1	2	2	2
NO. CIRCUITS	No.	1	1	1	1	1	1
REGULATION		Stepless	Stepless	Stepless	Stepless	Stepless	Stepless
MIN. CAPACITY STEP	%	27	27	27	22	22	20
REFRIGERANT		R32	R32	R32	R32	R32	R32
THEORETICAL REFRIGERANT CHARGE	kg	8.00	8.00	8.00	11.00	11.00	13.00
OIL CHARGE	kg	3.50	3.50	3.50	7.00	7.00	7.00
RC (ASHRAE) ⁶	kg/kW	0.16	0.13	0.12	0.14	0.12	0.13
FANS							
QUANTITY	No.	2	2	2	3	3	4
AIR FLOW	m ³ /s	6.86	7.01	7.01	9.84	9.84	12.97
TOTAL FANS POWER INPUT	kW	0.96	1.00	1.00	1.41	1.41	1.88
NOISE LEVEL							
TOTAL SOUND PRESSURE ⁷	dB(A)	45	46	48	48	49	50
TOTAL SOUND POWER LEVEL IN COOLING ^{8,9}	dB(A)	77	78	80	80	81	82
SIZE AND WEIGHT							
WIDTH (A) ¹⁰	mm	2085	2085	2085	2600	2600	3225
DEPTH (B) ¹⁰	mm	1100	1100	1100	1100	1100	1100
HEIGHT (H) ¹⁰	mm	2400	2400	2400	2400	2400	2400
OPERATING WEIGHT ¹⁰	kg	630	630	630	830	830	940

EACV

R32 Modular Air Cooled Chiller

(150 to 1,080kW)



Notes:

1. Under normal cooling conditions at outdoor temp 35°CDB/24°CWB (95°FDB/75.2°FWB) outlet water temp 7°C (44.6°F) inlet water temp 12°C (53.6°F). Pump input is not included in cooling capacity and power input.

2. Under normal cooling conditions at outdoor temp 35°CDB/24°CWB (95°FDB/75.2°FWB) outlet water temp 7°C (44.6°F) inlet water temp 12°C (53.6°F). Pump input is included in cooling capacity and power input based on EN14511.

3. Amount of factory-charged refrigerant is 3 (kg) x 4. Please add the refrigerant at the field.

4. IPV is calculated in accordance with AHRI 550-590.

*Please don't use the steel material for the water piping.

*Please always make water circulate, or pull the circulation water out completely when not in use.

*Please do not use groundwater or well water in direct.

*The water circuit must be closed circuit.

*Due to continuous improvement, the above specifications may be subject to change without notice.

*This model doesn't equip with a pump.

For dimensional drawings of this model please see page 2.9

The R32 e-Series **EACV** range allows for up to 6 individual units to be connected together to provide a system capacity from 150kW to 1,080kW. Using this modular approach reduces space requirements and simplifies lifting and installation.

Key Features & Benefits

- Highly efficient inverter scroll compressors
- Modular to maximise space saving
- Y-shaped heat exchangers allow for a greater surface area, maximising efficiency, whilst also keeping the units much narrower than conventional chillers



MODEL	EACV-M1500YCL-N		EACV-M1800YCL-N	
POWER SOURCE				
COOLING CAPACITY ¹	kW	150	180	
Power Input	kW	44.73	57.02	
EER		3.35	3.16	
IPV ⁴		6.42	6.31	
Water Flow Rate	m ³ /h	25.8	31.0	
COOLING CAPACITY (EN14511) ²	kW	149.18	178.80	
Power Input	kW	45.55	58.22	
EER		3.28	3.07	
Eurovent Efficiency Class		A	B	
SEER		5.52	5.36	
Performance (n _{s,c})	%	217.8	211.4	
SEPR (HT)		7.11	6.36	
Water Flow Rate	m ³ /h	25.8	31.0	
CURRENT INPUT	Cooling Current 380-400-415V ³	A	76 - 72 - 69	96 - 91 - 88
	Maximum Current	A	120	120
WATER PRESSURE DROP ¹		kPa	55	78
TEMP RANGE	Cooling	°C	Outlet water 4~30	Outlet water 4~30
	Outdoor	°C	-15~52	-15~52
CIRCULATING WATER VOLUME RANGE		m ³ /h	12.9~43.0	12.9~43.0
SOUND PRESSURE LEVEL (Measured in anechoic room) at 1m ¹		dB (A)	65	67
SOUND POWER LEVEL (Measured in anechoic room) ¹		dB (A)	83	85
DIAMETER OF WATER PIPE (Standard piping)	Inlet	mm (in)	65A (2 1/2B) housing type joint	65A (2 1/2B) housing type joint
	Outlet	mm (in)	65A (2 1/2B) housing type joint	65A (2 1/2B) housing type joint
DIAMETER OF WATER PIPE (Inside header piping)	Inlet	mm (in)	150A (6B) housing type joint	150A (6B) housing type joint
	Outlet	mm (in)	150A (6B) housing type joint	150A (6B) housing type joint
EXTERNAL FINISH			Polyester powder coating steel plate	Polyester powder coating steel plate
EXTERNAL DIMENSION	W x D x H	mm	3400 x1080 x 2350	3400 x1080 x 2350
NET WEIGHT	Standard Piping	kg (lbs)	1039 (2291)	1039 (2291)
	Inside Header Piping	kg (lbs)	1067 (2352)	1067 (2352)
DESIGN PRESSURE	R32	MPa	4.15	4.15
	Water	MPa	1.0	1.0
HEAT EXCHANGER	Water Side		Stainless steel plate and copper brazing	Stainless steel plate and copper brazing
	Air Side		Salt-resistant corrugated fin & aluminium micro channel	Salt-resistant corrugated fin & aluminium micro channel
COMPRESSOR	Type		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting Method		Inverter	Inverter
	Quantity		4	4
	Motor Output	kW	11.5 x 4	11.5 x 4
FAN	Air Flow Rate	m ³ /min	270 x 4	270 x 4
		L/s	4500 x 4	4500 x 4
		cfm	9534 x 4	9534 x 4
	Type, Quantity		Propeller fan x 4	Propeller fan x 4
	Starting Method		Inverter	Inverter
	Motor Output	kW	0.92 x 4	0.92 x 4
	External Static Pressure	Pa	20	20
REFRIGERANT	Type x Charge		R32 x 4.7 (kg) x 4 ³	R32 x 4.7 (kg) x 4 ³
	Control		LEV	LEV

i-BX

R410A Air Cooled Chiller

(4.3 to 12.9kW)

Single Phase



CLIMAVENETA

Climaveneta's i-BX range of small to medium sized, cooling only chillers efficiently and easily adapt to a wide range of cooling capacities. The whole range contains inverter driven compressors for enhanced efficiency and control.

Key Features & Benefits

- Packaged monobloc unit for easy installation
- Full inverter technology with Mitsubishi Electric BLDC compressors
- Extended cooling range, water outlet temperature -8 ~ 18°C, at ambient range of -10 ~ 45°C
- Dynamic water set point, varies outlet temperature depending on ambient temperature
- EC water pump, relief valve, flow switch, safety valve and expansion vessel
- Night function incorporated to reduce noise levels during the night
- ErP 2021 compliant
- Modbus connectivity option
- Additional accessories available upon request



MODEL	i-BX 004 MHAN RV	i-BX 006 MHAN RV	i-BX 008 MHAN RV	i-BX 010 MHAN RV	i-BX 013 MHAN RV
POWER SUPPLY	V / ph / Hz	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50
COOLING CAPACITY ¹	kW	4.3	6.11	8.1	10.6
TOTAL POWER INPUT ¹	kW	1.55	2.12	2.82	3.64
EER ¹		2.77	2.88	2.87	2.91
ESEER ¹		4.2	4.36	4.7	4.29
COOLING ONLY (EN14511 VALUE)					
COOLING CAPACITY ^{1,2}	kW	4.3	6.11	8.11	10.6
EER ^{1,2}		2.82	2.92	2.92	2.74
ESEER ^{1,2}		4.53	4.6	5.08	4.34
SEASONAL EFFICIENCY IN COOLING (REG.EU 2016/2281) - AVERAGE CLIMATE CONDITIONS					
SEER		4.38	4.43	4.93	4.39
PERFORMANCE η_s ³	%	172	174	194	172
HEAT EXCHANGER (USER SIDE)					
WATER FLOW ¹	l/s	0.21	0.29	0.39	0.51
MIN. SYSTEM WATER CONTENT ⁴	l	30	43	57	74
INLET / OUTLET CONNECTION SIZE	in	1"	1"	1"	1"1/4
REFRIGERANT CIRCUIT					
COMPRESSORS	N°	1	1	1	1
CIRCUITS	N°	1	1	1	1
REGULATION		STEPLESS	STEPLESS	STEPLESS	STEPLESS
MIN. CAPACITY STEP	%	25	25	25	25
REFRIGERANT CHARGE R410A	kg	1.45	2.1	3.55	3.6
CO ₂ EQUIVALENT	t	3.02	4.38	7.41	7.51
OIL CHARGE	kg	0.35	0.35	0.4	0.87
ELECTRICAL					
FULL LOAD POWER (F.L.I.)	kW	1.9	2.7	3.7	4.9
FULL LOAD CURRENT (F.L.A.)	A	8.7	12.3	16.1	22.6
INRUSH CURRENT (S.A.)	A	1	1	1	1
FANS					
QUANTITY	N°	1	1	1	2
AIRFLOW	m ³ /s	1.02	0.98	0.99	1.74
FANS POWER INPUT	kW	0.12	0.12	0.12	0.12
NOISE LEVEL					
SOUND PRESSURE ⁴	dB(A)	33	34	35	38
SOUND POWER ^{5,6}	dB(A)	64	65	66	69
SIZE AND WEIGHT					
WIDTH ⁷	mm	900	900	900	900
DEPTH ⁷	mm	370	370	420	420
HEIGHT ⁷	mm	940	940	1240	1240
OPERATING WEIGHT ⁷	kg	70	80	95	110

Notes:

- Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
- Values in compliance with EN14511-3:2013.
- Seasonal energy efficiency of space cooling.
- Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
- Sound power on the basis of measurements made in compliance with ISO 9614.
- Sound power level in cooling, outdoors.
- Unit in standard configuration/execution, without optional accessories.
- Calculated with a 7°C flow temperature.

Eurovent Certified Data

i-BX

R410A Air Cooled Chiller

(10.7 to 35.1kW)

Three Phase



CLIMAVENETA

Climaveneta's i-BX range of small to medium sized, cooling only chillers efficiently and easily adapt to a wide range of cooling capacities. The whole range contains inverter driven compressors for enhanced efficiency and control.

Key Features & Benefits

- Packaged monobloc unit for easy installation
- Full inverter technology with Mitsubishi Electric BLDC compressors
- Extended cooling range, water outlet temperature -8 ~ 18°C, at ambient range of -10 ~ 45°C
- Dynamic water set point, varies outlet temperature depending on ambient temperature
- EC water pump, relief valve, flow switch, safety valve and expansion vessel
- Night function incorporated to reduce noise levels during the night
- ErP 2021 compliant
- Modbus connectivity option
- Additional accessories available upon request



MODEL	i-BX 010 THAN RV	i-BX 013 THAN RV	i-BX 015 THAN RV	i-BX 020 THAN RV	i-BX 025 THAN RV	i-BX 030 THAN RV	i-BX 035 THAN RV
POWER SUPPLY	V / ph / Hz	415/3/50+N	415/3/50+N	415/3/50+N	415/3/50+N	415/3/50+N	415/3/50+N
PERFORMANCE							
COOLING CAPACITY ¹	kW	10.7	13.3	15.5	20.6	25.0	29.8
TOTAL POWER INPUT ¹	kW	3.64	4.74	5.44	7.2	8.69	10.0
EER ¹		2.94	2.81	2.85	2.86	2.88	2.98
ESEER ¹		4.36	4.57	4.14	4.12	4.26	4.15
COOLING ONLY (EN14511 VALUE)							
COOLING CAPACITY ^{1,2}	kW	10.7	13.3	15.5	20.6	25.0	29.9
EER ^{1,2}		2.95	2.82	2.87	2.88	2.90	3.01
ESEER ^{1,2}		4.42	4.69	4.2	4.2	4.36	4.27
SEASONAL EFFICIENCY IN COOLING (REG.EU 2016/2281) - AVERAGE CLIMATE CONDITIONS							
SEER		4.46	4.80	4.31	4.31	4.52	4.52
PERFORMANCE η_s ³	%	176	189	169	169	178	178
HEAT EXCHANGER (USER SIDE)							
WATER FLOW ⁴	l/s	0.51	0.64	0.74	0.99	1.2	1.43
MIN. SYSTEM WATER CONTENT ⁵	l	75	93	109	144	175	209
INLET / OUTLET CONNECTION SIZE	in	1"	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2
REFRIGERANT CIRCUIT							
COMPRESSORS	N°	1	1	1	1	1	1
CIRCUITS	N°	1	1	1	1	1	1
REGULATION		STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS
MIN. CAPACITY STEP	%	25	25	25	25	25	25
REFRIGERANT CHARGE R410A	kg	3.6	3.65	4.7	6.8	7	7.9
CO ₂ EQUIVALENT	t	7.51	7.62	9.81	14.19	14.62	16.49
OIL CHARGE	kg	0.87	1.4	1.4	1.4	1.4	2.3
ELECTRICAL							
FULL LOAD POWER (F.L.I.)	kW	4.9	6.5	7.4	9.4	11.3	13.7
FULL LOAD CURRENT (F.L.A.)	A	13	17	18	20	29	29
INRUSH CURRENT (S.A.)	A	1	1	1	1	1	1
FANS							
QUANTITY	N°	2	2	2	1	2	2
AIRFLOW	m ³ /s	1.74	1.7	1.64	2.26	3.76	4.2
FANS POWER INPUT	kW	0.12	0.12	0.12	0.6	0.4	0.55
NOISE LEVEL							
SOUND PRESSURE ⁴	dB(A)	38	39	43	43	43	44
SOUND POWER ^{5,6}	dB(A)	69	70	74	74	75	76
SIZE AND WEIGHT							
WIDTH ⁷	mm	900	900	900	1450	1450	1450
DEPTH ⁷	mm	420	420	420	550	550	550
HEIGHT ⁷	mm	1240	1240	1390	1200	1700	1700
OPERATING WEIGHT ⁷	kg	110	125	135	190	250	270

Notes:

- Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
- Values in compliance with EN14511-3:2013.
- Seasonal energy efficiency of space cooling.
- Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
- Sound power on the basis of measurements made in compliance with ISO 9614.
- Sound power level in cooling, outdoors.
- Unit in standard configuration/execution, without optional accessories.
- Calculated with a 7°C flow temperature.

Eurovent Certified Data

NX2

2 Compressor

R454B Air Cooled Chiller

(40kW to 208kW)



CLIMAVENETA

Notes:

1. Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
2. Values in compliance with EN14511.
3. Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
4. Sound power on the basis of measurements taken in compliance with ISO 9614.
5. Sound power level in cooling, outdoors.
6. Unit in standard configuration, without optional accessories.
7. Parameter calculated according to [REGULATION (EU) N. 2016/2281].
8. Seasonal energy efficiency ratio.
9. Seasonal space cooling energy efficiency.

Eurovent Certified Data

The **NX2** units are air cooled chillers with scroll compressors designed for delivering the best efficiencies in comfort applications. The complete range is Eurovent certified and all the sizes are completely ErP2021 compliant. Available from 40kW to 208kW using lower GWP R454B refrigerant, the NX2 is a two scroll compressor, single circuit solution. All the main hydraulic and mechanical components can be integrated within the unit, allowing for the ideal plug & play solution to be configured for HVAC plants within applications including hotels, offices, leisure centres, hospitals and universities.

Key Features & Benefits

- Two Scroll compressors
- ErP2021 compliant
- Low noise
- Energy efficient
- Lower GWP R454B refrigerant



MODEL	0042	0052	0062	0072	0082	0092	0102	0112	0122	0142	0162	0182	0202	0222	
POWER SUPPLY	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
PERFORMANCE															
COOLING ONLY (GROSS VALUE)															
COOLING CAPACITY ¹	kW	40.53	48.50	54.16	60.98	68.18	79.82	93.31	103.8	116.5	129.6	152.0	174.2	186.9	208.7
TOTAL POWER INPUT ¹	kW	13.64	2.970	17.02	17.66	20.47	25.36	27.94	32.74	38.27	44.42	47.39	55.37	61.54	70.86
EER ¹	kW/kW	2.978	3.019	3.188	3.446	3.327	3.142	3.344	3.174	3.042	2.919	3.207	3.144	3.039	2.944
COOLING ONLY (EN14511 VALUE)															
COOLING CAPACITY ¹²	kW	40.40	48.50	54.00	60.80	68.00	79.60	93.10	103.5	116.2	129.3	151.7	173.9	186.6	208.3
EER ¹²	kW/kW	2.920	2.970	3.120	3.380	3.260	3.090	3.290	3.110	2.990	2.870	3.150	3.100	3.000	2.900
ENERGY EFFICIENCY															
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)															
AMBIENT REFRIGERATION															
P _{RATED,C} ⁷	kW	40.4	48.5	54.0	60.8	68.0	79.6	93.1	104	116	129	152	174	187	208
SEER ^{7,8}		4.61	4.72	4.56	4.65	4.57	4.60	4.53	4.29	4.32	4.38	4.48	4.49	4.48	4.46
PERFORMANCE η _S ^{7,9}	%	181	186	179	183	180	181	178	168	170	172	176	177	176	175
EXCHANGERS															
HEAT EXCHANGER USER SIDE IN REFRIGERATION															
WATER FLOW ¹	l/s	1.938	2.323	2.590	2.916	3.261	3.817	4.462	4.965	5.573	6.198	7.268	8.331	8.937	9.979
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	44.8	33.3	41.4	45.4	46.2	45.3	36.6	45.4	45.5	42.6	47.9	44.1	38.5	48.0
REFRIGERANT CIRCUIT															
COMPRESSORS NR.	No.	2	2	2	2	2	2	2	2	2	2	2	2	2	2
CIRCUITS	No.	1	1	1	1	1	1	1	1	1	1	1	1	1	1
REFRIGERANT CHARGE	kg	7.60	7.60	8.00	9.90	10.0	11.1	13.1	14.3	15.5	15.8	21.9	22.7	22.8	22.9
NOISE LEVEL															
SOUND PRESSURE ³	dB(A)	49	50	49	51	52	52	52	52	52	53	54	55	55	56
SOUND POWER LEVEL IN COOLING ^{4,5}	dB(A)	81	82	81	83	84	84	84	84	84	85	86	87	87	88
SIZE AND WEIGHT															
WIDTH ⁶	mm	1825	1825	1825	2395	2395	2395	2325	2825	2825	2825	3980	3980	3980	3980
DEPTH ⁶	mm	1195	1195	1195	1195	1195	1195	1195	1195	1195	1195	1195	1195	1195	1195
HEIGHT ⁶	mm	1865	1865	1865	1865	1865	1865	1980	1980	1980	1980	1980	1980	1980	1980
OPERATING WEIGHT ⁶	kg	500	510	550	630	630	640	770	770	850	920	1130	1170	1180	1220

NX2

4 Compressor

R454B Air Cooled Chiller

(168kW to 345kW)



CLIMAVENETA

Notes:

1. Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
2. Values in compliance with EN14511.
3. Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
4. Sound power on the basis of measurements taken in compliance with ISO 9614.
5. Sound power level in cooling, outdoors.
6. Unit in standard configuration, without optional accessories.
7. Parameter calculated according to [REGULATION (EU) N. 2016/2281].
8. Seasonal energy efficiency ratio.
9. Seasonal space cooling energy efficiency.

Eurovent Certified Data

The **NX2** units are air cooled chillers with scroll compressors designed for delivering the best efficiencies in comfort applications. The complete range is Eurovent certified and all the sizes are completely ErP2021 compliant. Available from 168kW to 345kW using lower GWP R454B refrigerant, the NX2 is a four scroll compressor, twin circuit solution. All the main hydraulic and mechanical components can be integrated within the unit, allowing for the ideal plug & play solution to be configured for HVAC plants within applications including hotels, offices, leisure centres, hospitals and universities.

Key Features & Benefits

- Twin circuit tandem scroll compressors
- ErP2021 compliant
- Low noise
- Energy efficient
- Lower GWP R454B refrigerant



MODEL	0184P	0214P	0244P	0264P	0294P	0334P	0374P
POWER SUPPLY	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE							
COOLING ONLY (GROSS VALUE)							
COOLING CAPACITY ¹	kW	168.4	197.5	226.2	250.7	280.0	313.1
TOTAL POWER INPUT ¹	kW	49.44	58.24	68.66	77.32	81.59	93.64
EER ¹	kW/kW	3.409	3.393	3.293	3.243	3.431	3.345
COOLING ONLY (EN14511 VALUE)							
COOLING CAPACITY ¹²	kW	168.1	197.2	225.8	250.4	279.7	312.8
EER ¹²	kW/kW	3.350	3.340	3.240	3.200	3.380	3.300
ENERGY EFFICIENCY							
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)							
AMBIENT REFRIGERATION							
P _{PATED,C} ⁷	kW	168	197	226	250	280	313
SEER ^{7,8}		4.73	4.76	4.78	4.79	4.71	4.73
PERFORMANCE η _S ^{7,9}	%	186	188	188	189	185	186
EXCHANGERS							
HEAT EXCHANGER USER SIDE IN REFRIGERATION							
WATER FLOW ¹	l/s	8.052	9.444	10.81	11.99	13.39	14.97
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	42.7	44.3	46.7	46.6	42.8	39.8
REFRIGERANT CIRCUIT							
COMPRESSORS NR.	No.	4	4	4	4	4	4
CIRCUITS	No.	2	2	2	2	2	2
REFRIGERANT CHARGE	kg	30.1	31.9	37.5	37.6	47.5	51.8
NOISE LEVEL							
SOUND PRESSURE ³	dB(A)	54	54	55	55	56	58
SOUND POWER LEVEL IN COOLING ^{4,5}	dB(A)	86	86	87	87	88	90
SIZE AND WEIGHT							
WIDTH ⁶	mm	3160	3160	3160	3160	4335	4335
DEPTH ⁶	mm	2250	2250	2250	2250	2250	2250
HEIGHT ⁶	mm	2290	2290	2290	2290	2290	2290
OPERATING WEIGHT ⁶	kg	1620	1640	1850	1880	2230	2260

NX2

4-8 Compressor

R454B Air Cooled Chiller

(379kW to 867kW)

Standard Version (/K)



CLIMAVENETA

Notes:

1. Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
2. Values in compliance with EN14511.
3. Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
4. Sound power on the basis of measurements taken in compliance with ISO 9614.
5. Sound power level in cooling, outdoors.
6. Unit in standard configuration, without optional accessories.
7. Parameter calculated according to [REGULATION (EU) N. 2016/2281].
8. Seasonal energy efficiency ratio.
9. Seasonal space cooling energy efficiency.

Eurovent Certified Data

The **NX2** units are air cooled chillers with scroll compressors designed for delivering the best efficiencies in comfort applications. The complete range is Eurovent certified and all the sizes are completely ErP2021 compliant. All the main hydraulic and mechanical components can be integrated within the unit, allowing for the ideal plug & play solution to be configured for HVAC plants within applications including hotels, offices, leisure centres, hospitals and universities.

Key Features & Benefits

- ErP2021 compliant
- Low noise
- Energy efficient
- Lower GWP R454B refrigerant



MODEL	0404	0424	0464	0515	0576	0585	0636	0676	0706	0768	0808	0848	0898	0928	
POWER SUPPLY	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
PERFORMANCE															
COOLING ONLY (GROSS VALUE)															
COOLING CAPACITY ¹	kW	379.1	398.9	437.0	488.0	538.9	546.7	597.9	636.3	656.5	720.5	759.5	798.1	835.5	867.1
TOTAL POWER INPUT ¹	kW	115.6	122.6	136.9	152.1	167.3	168.6	183.8	198.1	200.3	218.0	231.4	245.1	259.3	273.5
EER ¹	kW/kW	3.279	3.254	3.192	3.208	3.221	3.243	3.253	3.212	3.278	3.305	3.282	3.256	3.222	3.170
COOLING ONLY (EN14511 VALUE)															
COOLING CAPACITY ^{1,2}	kW	378.6	398.5	436.5	487.5	538.3	546.2	597.3	635.7	655.8	719.8	758.8	797.4	834.8	866.3
EER ^{1,2}	kW/kW	3.220	3.210	3.140	3.160	3.170	3.200	3.210	3.170	3.230	3.260	3.230	3.220	3.180	3.130
ENERGY EFFICIENCY															
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)															
AMBIENT REFRIGERATION															
P _{NATED,C⁷}	kW	379	398	436	488	538	546	597	636	656	720	759	797	835	866
SEER ^{7,8}		4.67	4.68	4.65	4.70	4.70	4.76	4.75	4.73	4.77	4.75	4.74	4.75	4.75	4.74
PERFORMANCE η _S ^{7,9}	%	184	184	183	185	185	187	187	186	188	187	187	187	187	187
EXCHANGERS															
HEAT EXCHANGER USER SIDE IN REFRIGERATION															
WATER FLOW ¹	l/s	18.13	19.08	20.90	23.34	25.77	26.14	28.59	30.43	31.39	34.45	36.32	38.17	39.96	41.46
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	61.8	48.6	58.3	55.1	67.1	42.5	50.9	49.2	52.4	56.9	63.3	47.2	51.7	55.7
REFRIGERANT CIRCUIT															
COMPRESSORS NR.	No.	4	4	4	5	6	5	6	6	6	8	8	8	8	8
CIRCUITS	No.	2	2	2	2	2	2	2	3	2	4	4	4	4	4
REFRIGERANT CHARGE	kg	46.6	51.5	51.7	59.6	64.4	72.0	74.8	75.1	85.6	88.5	95.1	104	106	106
NOISE LEVEL															
SOUND PRESSURE ³	dB(A)	62	62	62	62	63	63	62	62	63	63	63	64	64	64
SOUND POWER LEVEL IN COOLING ^{4,5}	dB(A)	94	94	94		95	95	95	95	96	96	96	97	97	97
SIZE AND WEIGHT															
WIDTH ⁶	mm	3905	3905	3905	5080	5080	5080	6255	6255	6255	7430	7430	7430	7430	7430
DEPTH ⁶	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT ⁶	mm	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560
OPERATING WEIGHT ⁶	kg	2590	2620	2660	3190	3420	3500	3940	3980	4100	4970	5010	5080	5120	5150

NX2

4-8 Compressor

R454B Air Cooled Chiller

(380kW to 872kW)

High Efficiency Version (/A)



CLIMAVENETA

Notes:

1. Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
2. Values in compliance with EN14511.
3. Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
4. Sound power on the basis of measurements taken in compliance with ISO 9614.
5. Sound power level in cooling, outdoors.
6. Unit in standard configuration, without optional accessories.
7. Parameter calculated according to [REGULATION (EU) N. 2016/2281].
8. Seasonal energy efficiency ratio.
9. Seasonal space cooling energy efficiency.

Eurovent Certified Data

The **NX2** units are air cooled chillers with scroll compressors designed for delivering the best efficiencies in comfort applications. The complete range is Eurovent certified and all the sizes are completely ErP2021 compliant. All the main hydraulic and mechanical components can be integrated within the unit, allowing for the ideal plug & play solution to be configured for HVAC plants within applications including hotels, offices, leisure centres, hospitals and universities.

Key Features & Benefits

- ErP2021 compliant
- Low noise
- Energy efficient
- Lower GWP R454B refrigerant



MODEL	0404	0424	0464	0515	0576	0585	0636	0676	0706	0768	0808	0848	0898	0928	
POWER SUPPLY	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
PERFORMANCE															
COOLING ONLY (GROSS VALUE)															
COOLING CAPACITY ¹	kW	380.1	400.0	439.8	490.2	540.8	548.6	599.7	639.0	658.6	721.1	762.2	801.1	839.7	872.3
TOTAL POWER INPUT ¹	kW	111.3	117.1	129.4	145.0	161.1	161.7	177.4	188.0	194.1	211.0	222.5	234.3	246.4	258.3
EER ¹	kW/kW	3.415	3.416	3.399	3.381	3.357	3.393	3.380	3.399	3.393	3.418	3.426	3.419	3.408	3.377
COOLING ONLY (EN14511 VALUE)															
COOLING CAPACITY ¹²	kW	379.6	399.5	439.2	489.7	540.2	548.1	599.1	638.4	658.0	720.5	761.5	800.4	839.0	871.6
EER ¹²	kW/kW	3.350	3.370	3.340	3.330	3.300	3.350	3.330	3.350	3.350	3.370	3.370	3.380	3.360	3.330
ENERGY EFFICIENCY															
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)															
AMBIENT REFRIGERATION															
P _{RATED,C⁷}	kW	380	400	439	490	540	548	599	638	658	720	762	800	839	872
SEER ^{7,8}		4.74	4.77	4.73	4.78	4.72	4.82	4.82	4.86	4.83	4.81	4.81	4.83	4.84	4.86
PERFORMANCE n _{s^{7,9}}	%	187	188	186	188	186	190	190	191	190	189	189	190	190	191
EXCHANGERS															
HEAT EXCHANGER USER SIDE IN REFRIGERATION															
WATER FLOW ¹	l/s	18.18	19.13	21.03	23.44	25.86	26.24	28.68	30.56	31.50	34.49	36.45	38.31	40.16	41.72
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	62.1	48.8	59.0	55.6	67.6	42.8	51.2	49.6	52.7	57.0	63.7	47.6	52.2	56.4
REFRIGERANT CIRCUIT															
COMPRESSORS NR.	No.	4	4	4	5	6	5	6	6	6	8	8	8	8	8
CIRCUITS	No.	2	2	2	2	2	2	2	3	2	4	4	4	4	4
REFRIGERANT CHARGE	kg	56.1	59.9	62.7	76.5	77.9	80.8	88.8	94.1	98.8	107	129	129	129	129
NOISE LEVEL															
SOUND PRESSURE ³	dB(A)	63	63	63	62	63	63	63	64	64	64	64	65	65	65
SOUND POWER LEVEL IN COOLING ^{4,5}	dB(A)	95	95	95	95	96	96	96	97	97	97	97	98	98	98
SIZE AND WEIGHT															
WIDTH ⁶	mm	5080	5080	5080	6255	6255	6255	7430	7430	7430	9780	9780	9780	9780	9780
DEPTH ⁶	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT ⁶	mm	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560
OPERATING WEIGHT ⁶	kg	2960	2960	3000	3600	3830	3900	4290	4430	4450	5660	5720	5770	5810	5850

i-FX

R513A Air Cooled Chiller

(478kW to 1,029kW)

Standard Version (/K)



CLIMAVENETA

Notes:

1. Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
2. Values in compliance with EN14511.
3. Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
4. Sound power on the basis of measurements taken in compliance with ISO 9614.
5. Sound power level in cooling, outdoors.
6. Unit in standard configuration, without optional accessories.
7. Parameter calculated according to [REGULATION (EU) N. 2016/2281].
8. Seasonal energy efficiency ratio.
9. Seasonal space cooling energy efficiency.

Eurovent Certified Data

The Climaveneta range of **i-FX** units are air cooled chillers with inverter screw compressors, designed for delivering high efficiencies in comfort applications. Available with lower GWP R513A refrigerant, the new i-FX chillers apply variable speed technology in all of its main components, achieving top-level performances in any load condition.

Key Features & Benefits

- Total Inverter Technology
- Multiple heat recovery configurations
- ErP2021 compliant
- Low noise
- Energy efficient
- Lower GWP R513A refrigerant



MODEL	2202	2602	2652	2702	2722	3152	3602	3902	4202	4502	4802	
POWER SUPPLY	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
PERFORMANCE												
COOLING ONLY (GROSS VALUE)												
COOLING CAPACITY ¹	kW	478.6	531.1	561.2	598.1	656.7	720.7	801.4	874.1	932.0	900.3	1029
TOTAL POWER INPUT ¹	kW	172.0	189.2	198.6	209.1	237.2	263.0	290.3	312.1	331.0	358.1	383.8
EER ¹	kW/kW	2.783	2.807	2.826	2.860	2.769	2.740	2.761	2.801	2.816	2.765	2.681
COOLING ONLY (EN14511 VALUE)												
COOLING CAPACITY ¹²	kW	477.3	529.4	559.6	596.2	654.7	718.2	798.9	871.3	928.7	987.3	1026
EER ¹²	kW/kW	2.750	2.770	2.800	2.830	2.740	2.710	2.730	2.770	2.780	2.730	2.650
ENERGY EFFICIENCY												
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)												
AMBIENT REFRIGERATION												
P _{RATED,C⁷}	kW	477	529	560	596	655	718	799	871	929	987	1026
SEER ^{7,8}		4.77	4.78	4.73	4.76	4.76	4.82	4.83	4.79	4.82	4.77	4.80
PERFORMANCE n _{s^{7,9}}	%	188	188	186	187	187	190	190	189	190	188	189
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN REFRIGERATION												
WATER FLOW ¹	l/s	22.89	25.40	26.84	28.60	31.40	34.47	38.33	41.80	44.57	47.36	49.20
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	32.0	39.5	35.2	40.0	38.3	46.2	40.7	42.8	48.7	42.4	45.8
REFRIGERANT CIRCUIT												
COMPRESSORS NR.	No.	2	2	2	2	2	2	2	2	2	2	2
CIRCUITS	No.	2	2	2	2	2	2	2	2	2	2	2
REFRIGERANT CHARGE	kg	79.0	87.0	92.0	101	108	120	135	146	155	161	168
NOISE LEVEL												
SOUND PRESSURE ³	dB(A)	67	68	68	68	69	69	68	69	70	70	71
SOUND POWER LEVEL IN COOLING ^{4,5}	dB(A)	99	100	100	100	101	101	101	102	103	103	104
SIZE AND WEIGHT												
WIDTH ⁶	mm	4150	5400	5400	5400	5400	6650	6650	7900	7900	7900	7900
DEPTH ⁶	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT ⁶	mm	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500
OPERATING WEIGHT ⁶	kg	4790	5270	5280	5330	5720	6210	6270	6700	6740	7350	7750

i-FX

R513A Air Cooled Chiller

(1,054kW to 1,697kW)

Standard Version (/K)



CLIMAVENETA

Notes:

1. Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
2. Values in compliance with EN14511.
3. Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
4. Sound power on the basis of measurements taken in compliance with ISO 9614.
5. Sound power level in cooling, outdoors.
6. Unit in standard configuration, without optional accessories.
7. Parameter calculated according to [REGULATION (EU) N. 2016/2281].
8. Seasonal energy efficiency ratio.
9. Seasonal space cooling energy efficiency.

Eurovent Certified Data

The Climaveneta range of **i-FX** units are air cooled chillers with inverter screw compressors, designed for delivering high efficiencies in comfort applications. Available with lower GWP R513A refrigerant, the new **i-FX** chillers apply variable speed technology in all of its main components, achieving top-level performances in any load condition.

Key Features & Benefits

- Total Inverter Technology
- Multiple heat recovery configurations
- ErP2021 compliant
- Low noise
- Energy efficient
- Lower GWP R513A refrigerant



MODEL	4812	4822	5412	6002	6022	6303	6903	7203	7213	7223	
POWER SUPPLY	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
PERFORMANCE											
COOLING ONLY (GROSS VALUE)											
COOLING CAPACITY ¹	kW	1054	1128	1169	1242	1302	1409	1493	1559	1649	1697
TOTAL POWER INPUT ¹	kW	366.8	405.3	430.5	438.8	477.1	498.8	544.8	578.9	596.2	618.5
EER ¹	kW/kW	2.874	2.783	2.715	2.830	2.729	2.825	2.740	2.693	2.766	2.744
COOLING ONLY (EN14511 VALUE)											
COOLING CAPACITY ¹²	kW	1050	1124	1166	1238	1297	1405	1488	1555	1644	1691
EER ¹²	kW/kW	2.840	2.750	2.690	2.800	2.690	2.790	2.710	2.670	2.740	2.710
ENERGY EFFICIENCY											
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)											
AMBIENT REFRIGERATION											
P _{RATED,C} ⁷	kW	1050	1124	1166	1238	1297	1405	1488	1555	1644	1691
SEER ^{7,8}		4.79	4.82	4.89	4.90	4.90	4.74	4.77	4.76	4.76	4.79
PERFORMANCE η _S ^{7,9}	%	189	190	193	193	193	187	188	187	187	189
EXCHANGERS											
HEAT EXCHANGER USER SIDE IN REFRIGERATION											
WATER FLOW ¹	l/s	50.41	53.94	53.90	59.42	62.28	67.38	71.40	74.58	78.86	81.17
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	48.1	51.7	41.7	47.1	51.8	45.9	51.5	39.6	44.3	50.4
REFRIGERANT CIRCUIT											
COMPRESSORS NR.	No.	2	2	2	2	2	3	2	3	3	3
CIRCUITS	No.	2	2	2	2	2	3	3	3	3	3
REFRIGERANT CHARGE											
kg	174	189	193	208	214	236	244	254	273	288	
NOISE LEVEL											
SOUND PRESSURE ³	dB(A)	71	72	72	72	72	72	72	73	73	
SOUND POWER LEVEL IN COOLING ^{4,5}	dB(A)	104	105	105	105	105	105	105	106	106	
SIZE AND WEIGHT											
WIDTH ⁶	mm	9150	9150	9150	10400	10400	11650	11650	11650	12900	12900
DEPTH ⁶	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT ⁶	mm	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500
OPERATING WEIGHT ⁶	kg	8220	8340	8500	8890	9000	10650	11460	11840	12350	12340

i-FX

R513A Air Cooled Chiller

(477kW to 1,028kW)

Low Noise Version (/SL-K)



CLIMAVENETA

Notes:

1. Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
2. Values in compliance with EN14511.
3. Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
4. Sound power on the basis of measurements taken in compliance with ISO 9614.
5. Sound power level in cooling, outdoors.
6. Unit in standard configuration, without optional accessories.
7. Parameter calculated according to [REGULATION (EU) N. 2016/2281].
8. Seasonal energy efficiency ratio.
9. Seasonal space cooling energy efficiency.

Eurovent Certified Data

The Climaveneta range of **i-FX** units are air cooled chillers with inverter screw compressors, designed for delivering high efficiencies in comfort applications. Available with lower GWP R513A refrigerant, the new i-FX chillers apply variable speed technology in all of its main components, achieving top-level performances in any load condition.

Key Features & Benefits

- Total Inverter Technology
- Multiple heat recovery configurations
- ErP2021 compliant
- Low noise
- Energy efficient
- Lower GWP R513A refrigerant



MODEL	2202	2602	2652	2702	2722	3152	3602	3902	4202	4502	4802	
POWER SUPPLY	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
PERFORMANCE												
COOLING ONLY (GROSS VALUE)												
COOLING CAPACITY ¹	kW	477.0	516.7	554.6	578.0	662.9	711.3	774.2	845.6	903.1	972.7	1028
TOTAL POWER INPUT ¹	kW	168.1	177.0	195.5	212.2	228.3	260.2	295.6	317.7	336.9	356.8	373.5
EER ¹	kW/kW	2.838	2.919	2.837	2.724	2.904	2.734	2.619	2.662	2.681	2.726	2.752
COOLING ONLY (EN14511 VALUE)												
COOLING CAPACITY ¹²	kW	475.7	515.1	553.0	576.3	660.9	708.9	772.0	843	900.1	969.8	1025
EER ¹²	kW/kW	2.810	2.880	2.810	2.690	2.870	2.700	2.590	2.630	2.650	2.700	2.720
ENERGY EFFICIENCY												
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)												
AMBIENT REFRIGERATION												
P _{RATED,C} ⁷	kW	476	515	553	576	661	709	772	843	900	970	1025
SEER ^{7,8}		4.91	4.88	4.83	4.74	4.89	4.90	4.87	4.76	4.78	4.86	4.95
PERFORMANCE η _S ^{7,9}	%	194	192	190	187	193	193	192	187	188	191	195
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN REFRIGERATION												
WATER FLOW ¹	l/s	22.81	24.71	26.52	27.64	31.70	34.02	37.02	40.44	43.19	46.52	49.15
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	31.8	37.4	34.4	37.3	39.1	45.0	38.0	40.1	45.7	40.9	45.7
REFRIGERANT CIRCUIT												
COMPRESSORS NR.	No.	2	2	2	2	2	2	2	2	2	2	2
CIRCUITS	No.	2	2	2	2	2	2	2	2	2	2	2
REFRIGERANT CHARGE												
kg	83.0	91.0	97.0	101	116	125	135	146	155	168	178	
NOISE LEVEL												
SOUND PRESSURE ³	dB(A)	60	61	61	61	61	61	61	62	63	63	63
SOUND POWER LEVEL IN COOLING ^{4,5}	dB(A)	92	93	93	93	94	94	94	95	96	96	96
SIZE AND WEIGHT												
WIDTH ⁶	mm	5400	5400	5400	5400	6650	6650	6650	7900	7900	9150	9150
DEPTH ⁶	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT ⁶	mm	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500
OPERATING WEIGHT ⁶	kg	5450	5600	5620	5650	6560	6580	6590	7050	7100	8110	8550

i-FX

R513A Air Cooled Chiller

(1,046kW to 1,635kW)

Low Noise Version (/SL-K)



CLIMAVENETA

Notes:

1. Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
2. Values in compliance with EN14511.
3. Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
4. Sound power on the basis of measurements taken in compliance with ISO 9614.
5. Sound power level in cooling, outdoors.
6. Unit in standard configuration, without optional accessories.
7. Parameter calculated according to [REGULATION (EU) N. 2016/2281].
8. Seasonal energy efficiency ratio.
9. Seasonal space cooling energy efficiency.

Eurovent Certified Data

The Climaveneta range of **i-FX** units are air cooled chillers with inverter screw compressors, designed for delivering high efficiencies in comfort applications. Available with lower GWP R513A refrigerant, the new i-FX chillers apply variable speed technology in all of its main components, achieving top-level performances in any load condition.

Key Features & Benefits

- Total Inverter Technology
- Multiple heat recovery configurations
- ErP2021 compliant
- Low noise
- Energy efficient
- Lower GWP R513A refrigerant



MODEL	4812	4822	5412	6002	6022	6303	6903	7203	7213	7223	
POWER SUPPLY	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
COOLING ONLY (GROSS VALUE)											
COOLING CAPACITY ¹	kW	1046	1120	1162	1199	1290	1365	1474	1541	1590	1635
TOTAL POWER INPUT ¹	kW	359.4	397.2	422.1	446.5	470.5	507.7	541.1	572.2	610.0	633.6
EER ¹	kW/kW	2.870	2.820	2.753	2.685	2.742	2.689	2.724	2.693	2.607	2.580
COOLING ONLY (EN14511 VALUE)											
COOLING CAPACITY ¹²	kW	1042	1116	1159	1195	1286	1361	1469	1537	1589	1630
EER ¹²	kW/kW	2.870	2.780	2.720	2.660	2.710	2.660	2.690	2.670	2.580	2.550
ENERGY EFFICIENCY											
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)											
AMBIENT REFRIGERATION											
P _{RATED,C⁷}	kW	1042	1116	1159	1195	1286	1361	1469	1537	1586	1630
SEER ^{7,8}		4.89	4.93	5.00	4.95	4.99	4.77	4.94	4.84	4.84	4.85
PERFORMANCE η _{S^{7,9}}	%	192	194	197	195	197	188	194	191	190	191
EXCHANGERS											
HEAT EXCHANGER USER SIDE IN REFRIGERATION											
WATER FLOW ¹	l/s	50.01	53.58	55.57	57.32	61.67	65.28	70.50	73.70	76.02	78.18
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	47.3	51.0	41.2	43.9	50.8	43.1	50.2	38.7	41.2	46.7
REFRIGERANT CIRCUIT											
COMPRESSORS NR.	No.	2	2	2	2	2	3	2	3	2	3
CIRCUITS	No.	2	2	2	2	2	3	3	3	3	3
REFRIGERANT CHARGE	kg	183	198	204	208	224	236	255	267	278	288
NOISE LEVEL											
SOUND PRESSURE ³	dB(A)	63	63	63	63	63	63	63	63	63	64
SOUND POWER LEVEL IN COOLING ^{4,5}	dB(A)	96	96	96	96	96	96	96	96	96	97
SIZE AND WEIGHT											
WIDTH ⁶	mm	10400	10400	10400	10400	11650	11650	12900	12900	12900	12900
DEPTH ⁶	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT ⁶	mm	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500
OPERATING WEIGHT ⁶	kg	9010	9130	9310	9270	9790	11140	12390	12770	12850	12930

i-FX

R513A Air Cooled Chiller

(510kW to 1,520kW)

High Efficiency Version (/A)



CLIMAVENETA

Notes:

1. Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
2. Values in compliance with EN14511.
3. Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
4. Sound power on the basis of measurements taken in compliance with ISO 9614.
5. Sound power level in cooling, outdoors.
6. Unit in standard configuration, without optional accessories.
7. Parameter calculated according to [REGULATION (EU) N. 2016/2281].
8. Seasonal energy efficiency ratio.
9. Seasonal space cooling energy efficiency.

Eurovent Certified Data

The Climaveneta range of **i-FX** units are air cooled chillers with inverter screw compressors, designed for delivering high efficiencies in comfort applications. Available with lower GWP R513A refrigerant, the new **i-FX** chillers apply variable speed technology in all of its main components, achieving top-level performances in any load condition.

Key Features & Benefits

- Total Inverter Technology
- Multiple heat recovery configurations
- ErP2021 compliant
- Low noise
- Energy efficient
- Lower GWP R513A refrigerant



MODEL	2202	2602	2652	2702	2772	3152	3602	3902	4202	4502	4802	4822	5412	5703	6303	6603	
POWER SUPPLY	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
PERFORMANCE																	
COOLING ONLY (GROSS VALUE)																	
COOLING CAPACITY ¹	kW	510.2	551.9	590.0	626.9	684.3	767.2	839.9	899.4	959.4	1028	1099	1162	1230	1334	1467	1520
TOTAL POWER INPUT ¹	kW	163.5	177.8	189.4	203.0	222.2	257.2	286.0	303.4	320.6	340.0	358.2	388.6	401.1	452.6	493.4	518.9
EER ¹	kW/kW	3.120	3.104	3.115	3.088	3.080	2.983	2.937	2.964	2.993	3.024	3.068	2.990	3.067	2.947	2.973	2.929
COOLING ONLY (EN14511 VALUE)																	
COOLING CAPACITY ¹²	kW	508.7	550.4	288.2	624.8	682.1	765.0	837.1	896.4	955.9	1025	1095	1159	1226	1330	1463	1515
EER ¹²	kW/kW	3.080	3.070	3.080	3.050	3.040	2.950	2.900	2.930	2.950	2.980	3.020	2.960	3.030	2.910	2.940	2.900
ENERGY EFFICIENCY																	
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)																	
AMBIENT REFRIGERATION																	
P _{RATED,C} ⁷	kW	509	550	588	625	682	765	837	896	956	1025	1025	1159	1226	1330	1463	1515
SEER ^{7,8}		5.26	5.27	5.26	5.20	5.21	5.21	5.22	5.17	5.12	5.26	5.21	5.16	5.22	5.15	5.06	5.12
PERFORMANCE η _S ^{7,9}	%	207	208	207	205	205	206	206	204	202	207	206	203	206	203	199	202
EXCHANGERS																	
HEAT EXCHANGER USER SIDE IN REFRIGERATION																	
WATER FLOW ¹	l/s	24.40	26.39	28.22	29.98	32.73	36.69	40.16	43.01	45.88	49.16	52.54	55.59	58.81	63.78	70.16	72.70
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	36.4	34.0	38.9	43.9	41.6	37.3	44.7	45.3	51.6	45.7	50.1	41.2	46.2	41.1	35.1	37.7
REFRIGERANT CIRCUIT																	
COMPRESSORS NR.	No.	2	2	2	2	2	2	2	2	2	2	2	2	2	4	3	4
CIRCUITS	No.	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3
REFRIGERANT CHARGE																	
kg	91.0	93.0	100	106	115	130	141	153	162	174	185	199	209	227	260	258	
NOISE LEVEL																	
SOUND PRESSURE ³	dB(A)	67	68	67	67	68	68	68	69	70	70	71	72	72	72	72	
SOUND POWER LEVEL IN COOLING ^{4,5}	dB(A)	99	100	100	101	101	101	102	103	103	104	105	105	105	105	105	
SIZE AND WEIGHT																	
WIDTH ⁶	mm	5400	5400	6650	6650	6650	7900	7900	9150	9150	10400	10400	10400	11650	12900	12900	
DEPTH ⁶	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	
HEIGHT ⁶	mm	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	
OPERATING WEIGHT ⁶	kg	5180	5240	5720	5800	6210	6620	6670	7080	7120	8110	8550	8810	9280	10880	10920	11610

i-FX HFO1234ze Air Cooled Chiller

(382kW to 1,463kW)

High Efficiency Version (/A)



CLIMAVENETA

Notes:

1. Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
2. Values in compliance with EN14511.
3. Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
4. Sound power on the basis of measurements taken in compliance with ISO 9614.
5. Sound power level in cooling, outdoors.
6. Unit in standard configuration, without optional accessories.
7. Parameter calculated according to [REGULATION (EU) N. 2016/2281].
8. Seasonal energy efficiency ratio.
9. Seasonal space cooling energy efficiency.

Eurovent Certified Data

The Climaveneta range of **i-FX** units are air cooled chillers with inverter screw compressors and HFO green refrigerant, designed for delivering high efficiencies in comfort applications. Available with HFO1234ze refrigerant, the new i-FX chillers apply variable speed technology in all of its main components, achieving top-level performances in any load condition.

Key Features & Benefits

- Total Inverter Technology
- Multiple heat recovery configurations
- ErP2021 compliant
- Low noise
- Energy efficient
- Low GWP HFO1234ze refrigerant



MODEL	2202	2602	2702	2722	3602	4202	4802	4822	6002	6022	6603	7203	7223	7283	
POWER SUPPLY	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
PERFORMANCE															
COOLING ONLY (GROSS VALUE)															
COOLING CAPACITY ¹	kW	382.7	417.9	486.9	534.8	642.0	725.9	843.1	915.7	994.1	1038	1146	1280	1399	1463
TOTAL POWER INPUT ¹	kW	117.7	130.2	147.7	168.4	211.1	237.1	281.3	305.7	322.1	340.6	379.0	423.0	471.2	499.3
EER ¹	kW/kW	3.251	3.210	3.297	3.176	3.041	3.062	2.997	2.995	3.086	3.048	3.024	3.026	2.969	2.930
COOLING ONLY (EN14511 VALUE)															
COOLING CAPACITY ¹²	kW	381.5	416.4	485.7	533.2	639.7	723.4	841.1	912.6	991.0	1035	1143	1276	1394	1458
EER ¹²	kW/kW	3.210	3.160	3.260	3.140	3.000	3.020	2.970	2.960	3.050	3.010	2.990	2.930	2.890	
ENERGY EFFICIENCY															
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)															
AMBIENT REFRIGERATION															
P _{RATED,C} ⁷	kW	382	416	486	533	640	723	841	913	991	1035	1143	1276	1394	1458
SEER ^{7,8}		5.18	5.26	5.26	5.18	5.09	5.18	5.09	5.06	5.13	5.09	5.11	5.04	5.04	5.00
PERFORMANCE η _S ^{7,9}	%	204	207	207	204	201	204	201	199	202	200	201	199	199	197
EXCHANGERS															
HEAT EXCHANGER USER SIDE IN REFRIGERATION															
WATER FLOW ¹	l/s	18.30	19.98	23.29	25.58	30.70	34.71	40.32	43.79	47.52	49.65	54.79	61.21	66.89	69.95
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	35.3	42.1	30.1	36.4	46.1	46.8	30.8	47.0	42.8	43.8	40.1	40.8	48.7	53.3
REFRIGERANT CIRCUIT															
COMPRESSORS NR.	No.	2	2	2	2	2	2	2	2	2	2	3	3	3	3
CIRCUITS	No.	2	2	2	2	2	2	2	2	2	2	3	3	3	3
REFRIGERANT CHARGE	kg	63.0	70.0	81.0	86.0	108	124	134	139	167	171	189	195	203	218
NOISE LEVEL															
SOUND PRESSURE ³	dB(A)	67	68	68	69	68	70	72	72	72	72	72	73	73	73
SOUND POWER LEVEL IN COOLING ^{4,5}	dB(A)	99	100	100	101	101	103	105	105	105	105	105	105	106	106
SIZE AND WEIGHT															
WIDTH ⁶	mm	4150	5400	5400	5400	6650	7900	7900	9150	10400	10400	11650	11650	12900	12900
DEPTH ⁶	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT ⁶	mm	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500
OPERATING WEIGHT ⁶	kg	4780	5220	5360	5430	6060	6820	7810	8240	8780	8880	11170	11800	12430	12390

i-FX-Q2

R513A Air Cooled Chiller

(520kW to 1,125kW)

High Efficiency Version (/CA)

Key Features & Benefits

- Total Inverter Technology
- Multiple heat recovery configurations
- ErP2021 compliant
- Low noise
- Energy efficient
- Lower GWP R513A refrigerant



INTEGRA

CLIMAVENETA

Notes:

1. Plant (side) cooling exchanger water (in/out) 12.00°C/7.00°C; Source (side) heat exchanger air (in) 35.0°C.
2. Values in compliance with EN14511.
3. Plant (side) heat exchanger water (in/out) 40.0°C/45.0°C; Source (side) heat exchanger air (in) 7.0°C - 87% R.H.
4. Plant (side) cooling exchanger water (in/out) 12.00°C/7.00°C; Plant (side) heat exchanger water (in/out) 40.00°C/45.00°C.
5. Rated in accordance with AHRI Standard 550/590.
6. Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
7. Parameter calculated according to [REGULATION (EU) N. 2016/2281].
8. Seasonal energy efficiency ratio.
9. Seasonal space cooling energy efficiency.
10. Sound power on the basis of measurements made in compliance with ISO 9614.
11. Sound power level in cooling, outdoors.
12. Sound power level in heating, outdoors.
13. Unit in standard configuration/execution, without optional accessories.

Eurovent Certified Data

The Climaveneta range of **i-FX-Q2** units are air cooled chillers, designed to produce chilled and hot water simultaneously and efficiently using variable frequency drive compressors. Available with lower GWP R513A refrigerant, the new i-FX-Q2 chillers apply variable speed technology in all of its main components, achieving top-level performances in any load condition.



MODEL	0502	0532	0602	0652	0702	0802	0902	1002	1102	
POWER SUPPLY	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
PERFORMANCE										
COOLING ONLY (GROSS VALUE)										
COOLING CAPACITY ¹	kW	520.5	536.1	570.0	670.8	712.2	787.4	982.0	1048	1125
TOTAL POWER INPUT ¹	kW	180.4	181.2	189.0	229.8	238.9	261.5	344.9	356.6	411.4
EER ¹	kW/kW	2.885	2.959	3.016	2.919	2.981	3.011	2.847	2.939	2.735
COOLING ONLY (EN14511 VALUE)										
COOLING CAPACITY ^{1,2}	kW	485.9	529.2	568.5	624.8	686.6	785.6	912.3	982.3	1079
EER ^{1,2}	kW/kW	2.980	2.980	2.980	2.990	2.980	2.980	3.020	3.000	2.850
HEATING ONLY (GROSS VALUE)										
TOTAL HEATING CAPACITY ³	kW	496.8	496.8	531.0	643.9	684.9	764.8	939.9	988.7	1071
TOTAL POWER INPUT ³	kW	152.9	152.9	160.1	195.5	205.8	224.6	294.3	311.5	332.4
COP ³	kW/kW	3.249	3.249	3.317	3.294	3.328	3.405	3.194	3.174	3.222
HEATING ONLY (EN14511 VALUE)										
TOTAL HEATING CAPACITY ^{2,3}	kW	464.1	490.3	532.0	600.0	660.7	766.8	873.3	940.2	1030
COP ^{2,3}	kW/kW	3.320	3.280	3.300	3.340	3.330	3.380	3.340	3.370	3.350
COOLING WITH HEAT RECOVERY (EN14511 VALUE)										
COOLING CAPACITY ^{2,4}	kW	487.0	531.0	569.0	622.0	680.3	782.6	911.8	984.4	1098
TOTAL POWER INPUT ^{2,4}	kW	145.8	160.6	170.6	185.8	205.7	234.7	275.9	292.7	329.6
RECOVERY HEAT EXCHANGER CAPACITY ^{2,4}	kW	624.2	682.1	729.5	796.9	874.0	1003	1171	1260	1408
TER	kW/kW	7.620	7.553	7.613	7.637	7.555	7.609	7.546	7.667	7.603
ENERGY EFFICIENCY										
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)										
AMBIENT REFRIGERATION										
P _{RATED,C} ⁷	kW	485.9	529.2	568.5	624.8	686.6	785	912.3	982.3	1079.0
SEER ^{7,8}		5.15	5.09	5.11	5.08	5.12	5.02	4.73	4.66	4.63
PERFORMANCE η _S ^{7,9}	%	203.0	201.0	202.0	200.0	202.0	198.0	186.0	183.0	182.0
EXCHANGERS										
HEAT EXCHANGER USER SIDE IN REFRIGERATION										
WATER FLOW ¹	l/s	24.89	25.64	27.26	32.08	34.06	37.65	46.96	50.12	53.78
PRESSURE DROP AT THE HEAT EXCHANGER ¹	kPa	40.8	51.6	32.5	40.5	45.4	29.0	39.7	42.3	51.4
HEAT EXCHANGER USER SIDE IN HEATING										
WATER FLOW ³	l/s	23.98	23.98	25.63	31.08	33.06	36.92	45.37	47.73	53.68
PRESSURE DROP AT THE HEAT EXCHANGER ³	kPa	26.5	26.5	21.9	31.9	35.3	32.9	49.6	39.6	33.2
REFRIGERANT CIRCUIT										
COMPRESSORS NR.	No.	2	2	2	2	2	2	2	2	2
NUMBER OF CAPACITY STEPS	No.	0	0	0	0	0	0	0	0	0
CIRCUITS	No.	2	2	2	2	2	2	2	2	2
REGULATION	Stepless									
REFRIGERANT	R513A									
REFRIGERANT CHARGE	kg	253	257	307	338	372	425	451	473	473
OIL CHARGE	kg	36.0	36.0	36.0	36.0	36.0	36.0	60.0	60.0	60.0
RC (ASHARE) ⁶	kg/kW	0.49	0.52	0.54	0.51	0.53	0.55	0.46	0.46	0.42
NOISE LEVEL										
SOUND PRESSURE ⁶	dB(A)	67	67	68	69	69	68	70	70	70
SOUND POWER LEVEL IN COOLING ^{10,11}	dB(A)	100	100	100	102	102	101	103	103	103
SOUND POWER LEVEL IN HEATING ^{10,11}	dB(A)	100	100	100	102	102	101	103	103	103
SIZE AND WEIGHT										
WIDTH ¹³	mm	8150	8150	8900	9650	10400	10400	10400	11900	11900
DEPTH ¹³	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT ¹³	mm	2530	2530	2530	2530	2530	2530	2530	2530	2530
OPERATING WEIGHT ¹³	kg	8350	8380	9080	9590	10060	11010	12310	14110	14150

i-FX-Q2

R513A Air Cooled Chiller

(498kW to 1,039kW)

Low Noise Version (/SL-CA)

Key Features & Benefits

- Total Inverter Technology
- Multiple heat recovery configurations
- ErP2021 compliant
- Low noise
- Energy efficient
- Lower GWP R513A refrigerant



INTEGRA

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Notes:

1. Plant (side) cooling exchanger water (in/out) 12.00°C/7.00°C; Source (side) heat exchanger air (in) 35.0°C.
2. Values in compliance with EN14511.
3. Plant (side) heat exchanger water (in/out) 40.00°C/45.00°C; Source (side) heat exchanger air (in) 7.0°C - 87% R.H.
4. Plant (side) cooling exchanger water (in/out) 12.00°C/7.00°C; Plant (side) heat exchanger water (in/out) 40.00°C/45.00°C.
5. Rated in accordance with AHRI Standard 550/590.
6. Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
7. Parameter calculated according to [REGULATION (EU) N. 2016/2281].
8. Seasonal energy efficiency ratio.
9. Seasonal space cooling energy efficiency.
10. Sound power on the basis of measurements made in compliance with ISO 9614.
11. Sound power level in cooling, outdoors.
12. Sound power level in heating, outdoors.
13. Unit in standard configuration/execution, without optional accessories.

Eurovent Certified Data

The Climaveneta range of **i-FX-Q2** units are air cooled chillers, designed to produce chilled and hot water simultaneously and efficiently using variable frequency drive compressors. Available with lower GWP R513A refrigerant, the new i-FX-Q2 chillers apply variable speed technology in all of its main components, achieving top-level performances in any load condition.



MODEL	0502	0532	0602	0652	0702	0802	0902	1002	1102	
POWER SUPPLY	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
PERFORMANCE										
COOLING ONLY (GROSS VALUE)										
COOLING CAPACITY ¹	kW	498.6	513.3	549.0	646.7	686.7	765.6	905.4	981.9	1039
TOTAL POWER INPUT ¹	kW	183.1	184.0	188.8	229.5	235.8	261.6	322.0	347.6	386.2
EER ¹	kW/kW	2.723	2.790	2.908	2.818	2.912	2.927	2.812	2.825	2.690
COOLING ONLY (EN14511 VALUE)										
COOLING CAPACITY ^{1,2}	kW	466.1	506.6	547.6	602.3	662.8	763.9	878.7	949.1	1036
EER ^{1,2}	kW/kW	2.850	2.840	2.880	2.920	2.930	2.900	2.850	2.860	2.660
HEATING ONLY (GROSS VALUE)										
TOTAL HEATING CAPACITY ³	kW	492.0	492.0	526.1	637.4	678.9	756.3	881.6	948.9	1018
TOTAL POWER INPUT ³	kW	150.9	150.9	157.6	192.7	203.0	221.5	265.7	283.7	301.1
COP ³	kW/kW	3.260	3.260	3.334	3.308	3.344	3.414	3.318	3.345	3.381
HEATING ONLY (EN14511 VALUE)										
TOTAL HEATING CAPACITY ^{2,3}	kW	459.6	487.6	527.1	594.3	654.9	758.2	862.8	930.9	1020
COP ^{2,3}	kW/kW	3.330	3.290	3.320	3.360	3.350	3.390	3.340	3.380	3.360
COOLING WITH HEAT RECOVERY (EN14511 VALUE)										
COOLING CAPACITY ^{2,4}	kW	487.2	531.2	569.1	622.2	680.5	782.6	912.1	984.6	1098
TOTAL POWER INPUT ^{2,4}	kW	145.6	160.2	170.4	185.4	205.4	234.5	274.7	291.7	329.3
RECOVERY HEAT EXCHANGER CAPACITY ^{2,4}	kW	624.2	681.9	729.4	796.7	873.8	1003	1170	1259	1407
TER	kW/kW	7.630	7.572	7.616	7.654	7.566	7.614	7.579	7.693	7.607
ENERGY EFFICIENCY										
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)										
AMBIENT REFRIGERATION										
P _{RATED} ^{5,7}	kW	466.1	506.6	547.6	602.3	662.8	763.9	878.7	949.1	1036.0
SEER ^{7,8}		5.10	5.07	5.07	5.07	5.12	4.96	4.70	4.62	4.60
PERFORMANCE $\eta_s^{7,9}$	%	201.0	200.0	200.0	200.0	202.0	195.0	185.0	182.0	181.0
EXCHANGERS										
HEAT EXCHANGER USER SIDE IN REFRIGERATION										
WATER FLOW ¹	l/s	23.84	24.55	26.26	30.93	32.84	36.61	43.30	46.96	49.69
PRESSURE DROP AT THE HEAT EXCHANGER ¹	kPa	37.5	47.3	30.2	37.6	42.3	27.4	36.8	39.5	47.4
HEAT EXCHANGER USER SIDE IN HEATING										
WATER FLOW ³	l/s	23.75	23.75	25.39	30.77	32.77	36.51	42.55	45.80	49.13
PRESSURE DROP AT THE HEAT EXCHANGER ³	kPa	26.0	26.0	21.5	31.3	34.7	32.1	43.7	36.4	30.0
REFRIGERANT CIRCUIT										
COMPRESSORS NR.	No.	2	2	2	2	2	2	2	2	2
NUMBER OF CAPACITY STEPS	No.	0	0	0	0	0	0	0	0	0
CIRCUITS	No.	2	2	2	2	2	2	2	2	2
REGULATION	Stepless									
REFRIGERANT	R513A									
REFRIGERANT CHARGE	kg	253	275	307	338	372	425	451	473	473
OIL CHARGE	kg	36.0	36.0	36.0	36.0	36.0	36.0	60.0	60.0	60.0
RC (ASHARE) ¹⁰	kg/kW	0.51	0.54	0.57	0.53	0.55	0.56	0.50	0.49	0.46
NOISE LEVEL										
SOUND PRESSURE ⁶	dB(A)	57	58	58	59	59	59	61	61	59
SOUND POWER LEVEL IN COOLING ^{10,11}	dB(A)	90	91	91	92	92	92	94	94	92
SOUND POWER LEVEL IN HEATING ^{10,11}	dB(A)	90	91	91	92	92	92	94	94	92
SIZE AND WEIGHT										
WIDTH ¹³	mm	8150	8150	8900	9650	10400	10400	10400	11900	11900
DEPTH ¹³	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT ¹³	mm	2530	2530	2530	2530	2530	2530	2530	2530	2530
OPERATING WEIGHT ¹³	kg	8800	8830	9530	10040	10510	11450	12750	14560	14600

i-FX-Q2 R513A Air Cooled Chiller, High Efficiency Version

i-FX-Q2 R513A Air Cooled Chiller, Low Noise Version

FX2

R513A Air Cooled Chiller

(322kW to 996kW)

Standard Version (/K)



CLIMAVENETA

Notes:

1. Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
2. Values in compliance with EN14511.
3. Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
4. Sound power on the basis of measurements taken in compliance with ISO 9614.
5. Sound power level in cooling, outdoors.
6. Unit in standard configuration, without optional accessories.
7. Parameter calculated according to [REGULATION (EU) N. 2016/2281].
8. Seasonal energy efficiency ratio.
9. Seasonal space cooling energy efficiency.

Eurovent Certified Data

The Climaveneta range of **FX2** units are air cooled chillers with screw compressors, designed for delivering high efficiencies in comfort applications. Available with lower GWP R513A refrigerant, the new range features 2 or 3 compressors in multi-circuit configuration.

Key Features & Benefits

- Compact design
- Low noise
- Energy efficient
- Lower GWP R513A refrigerant



MODEL	0322	0352	0402	0472	0512	0572	0652	0702	0772	0852	0902	1002	
POWER SUPPLY	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
PERFORMANCE													
COOLING ONLY (GROSS VALUE)													
COOLING CAPACITY ¹	kW	322.1	350.2	411.9	464.4	516.7	573.4	645.8	707.6	779.8	862.9	937.3	996.0
TOTAL POWER INPUT ¹	kW	102.4	119.2	133.1	146.1	172.5	188.6	207.4	239.2	254.6	272.4	295.1	315.5
EER ¹	kW/kW	3.146	2.938	3.095	3.179	2.995	3.040	3.114	2.958	3.063	3.168	3.176	3.157
ESEER ¹	kW/kW	4.430	4.440	4.510	4.500	4.440	4.460	4.470	4.480	4.470	4.450	4.450	4.460
COOLING ONLY (EN14511 VALUE)													
COOLING CAPACITY ¹²	kW	321.8	349.8	411.5	463.9	516.2	572.9	645.2	707.0	779.1	862.3	936.6	995.2
EER ¹²	kW/kW	3.120	2.910	3.060	3.140	2.970	3.010	3.080	2.930	3.020	3.130	3.140	3.120
ESEER ¹²		4.300	4.300	4.350	4.310	4.290	4.280	4.300	4.320	4.270	4.290	4.280	4.270
ENERGY EFFICIENCY													
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)													
AMBIENT REFRIGERATION													
P _{RATED,C} ⁷	kW	322	350	412	464	516	573	645	707	779	862	937	995
SEER ^{7,8}		4.51	4.50	4.56	4.58	4.56	4.56	4.58	4.57	4.57	4.58	4.59	4.59
PERFORMANCE η _S ^{7,9}	%	177	177	179	180	179	179	180	180	180	180	180	181
EXCHANGERS													
HEAT EXCHANGER USER SIDE IN REFRIGERATION													
WATER FLOW ¹	l/s	15.40	16.75	19.70	22.21	24.71	27.42	30.88	33.84	37.29	41.27	44.82	47.63
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	27.7	32.7	38.8	49.4	37.3	46.0	46.6	44.5	54.1	47.2	49.2	55.6
REFRIGERANT CIRCUIT													
COMPRESSORS NR.	No.	2	2	2	2	2	2	2	2	2	2	2	2
CIRCUITS	No.	2	2	2	2	2	2	2	2	2	2	2	2
REFRIGERANT CHARGE	kg	57.0	60.0	71.0	81.0	88.0	98.0	113	120	133	150	163	173
NOISE LEVEL													
SOUND PRESSURE ³	dB(A)	67	67	67	68	68	68	68	70	69	69	70	70
SOUND POWER LEVEL IN COOLING ^{4,5}	dB(A)	99	99	99	100	100	100	100	102	102	102	103	103
SIZE AND WEIGHT													
WIDTH ⁶	mm	2750	2750	4000	4000	4000	5250	5250	5250	6500	6500	7750	7750
DEPTH ⁶	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT ⁶	mm	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640
OPERATING WEIGHT ⁶	kg	3120	2950	3600	3730	4570	5060	5190	5550	6400	6980	7460	7620

FX2

R513A Air Cooled Chiller

(1,056kW to 1,839kW)

Standard Version (/K)



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Notes:

1. Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
2. Values in compliance with EN14511.
3. Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
4. Sound power on the basis of measurements taken in compliance with ISO 9614.
5. Sound power level in cooling, outdoors.
6. Unit in standard configuration, without optional accessories.
7. Parameter calculated according to [REGULATION (EU) N. 2016/2281].
8. Seasonal energy efficiency ratio.
9. Seasonal space cooling energy efficiency.

Eurovent Certified Data

The Climaveneta range of **FX2** units are air cooled chillers with screw compressors, designed for delivering high efficiencies in comfort applications. Available with lower GWP R513A refrigerant, the new range features 2 or 3 compressors in multi-circuit configuration.

Key Features & Benefits

- Compact design
- Low noise
- Energy efficient
- Lower GWP R513A refrigerant



MODEL	1052	1102	1152	1222	1262	1322	1402	1503	1593	1663	1773	1883	
POWER SUPPLY	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
PERFORMANCE													
COOLING ONLY (GROSS VALUE)													
COOLING CAPACITY ¹	kW	1056	1098	1139	1232	1264	1332	1400	1506	1592	1664	1778	1839
TOTAL POWER INPUT ¹	kW	343.2	369.3	354.3	396.3	423.2	433.9	474.8	475.0	523.1	556.9	580.4	605.3
EER ¹	kW/kW	3.077	2.973	3.215	3.109	2.987	3.070	2.949	3.171	3.043	2.988	3.063	3.038
ESEER ¹	kW/kW	4.460	4.470	4.460	4.490	4.470	4.460	4.490	4.430	4.450	4.440	4.440	4.470
COOLING ONLY (EN14511 VALUE)													
COOLING CAPACITY ¹²	kW	1055	1097	1138	1231	1264	1331	1399	1505	1591	1663	1777	1838
EER ¹²	kW/kW	3.040	2.940	3.170	3.070	2.960	3.030	2.910	3.130	3.010	2.960	3.030	3.000
ESEER ¹²		4.290	4.300	4.280	4.290	4.300	4.280	4.300	4.270	4.270	4.290	4.280	4.290
ENERGY EFFICIENCY													
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)													
AMBIENT REFRIGERATION													
P _{RATED,C} ⁷	kW	1055	1097	1138	1231	1264	1331	1399	1505	1591	1663	1777	1838
SEER ^{7,8}		4.56	2.940	4.58	4.60	4.56	4.57	4.58	4.59	4.59	4.58	4.60	4.63
PERFORMANCE η _S ^{7,9}	%	180	4.300	180	181	179	180	180	181	181	180	181	182
EXCHANGERS													
HEAT EXCHANGER USER SIDE IN REFRIGERATION													
WATER FLOW ¹	l/s	50.51	52.49	54.45	58.92	60.46	63.71	66.96	72.03	76.12	79.55	85.04	87.92
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	48.3	52.1	56.1	61.6	48.8	54.2	59.9	52.5	58.6	45.1	51.6	59.1
REFRIGERANT CIRCUIT													
COMPRESSORS NR.	No.	2	2	2	2	2	2	3	3	3	3	3	
CIRCUITS	No.	2	2	2	2	2	2	3	3	3	3	3	
REFRIGERANT CHARGE	kg	179	104	195	210	214	232	238	263	271	281	303	318
NOISE LEVEL													
SOUND PRESSURE ³	dB(A)	71	71	71	71	72	73	73	73	73	73	73	73
SOUND POWER LEVEL IN COOLING ^{4,5}	dB(A)	104	104	104	104	105	106	106	106	106	106	106	106
SIZE AND WEIGHT													
WIDTH ⁶	mm	7750	7750	9000	9000	9150	10400	10400	11650	11650	11650	12900	12900
DEPTH ⁶	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT ⁶	mm	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640
OPERATING WEIGHT ⁶	kg	7870	7900	8430	8500	8860	9470	9610	12050	12110	12120	12710	12720

FX2

R513A Air Cooled Chiller

(310kW to 960kW)

Low Noise Version (/SL-K)



CLIMAVENETA

Notes:

1. Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
2. Values in compliance with EN14511.
3. Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
4. Sound power on the basis of measurements taken in compliance with ISO 9614.
5. Sound power level in cooling, outdoors.
6. Unit in standard configuration, without optional accessories.
7. Parameter calculated according to [REGULATION (EU) N. 2016/2281].
8. Seasonal energy efficiency ratio.
9. Seasonal space cooling energy efficiency.

Eurovent Certified Data

The Climaveneta range of **FX2** units are air cooled chillers with screw compressors, designed for delivering high efficiencies in comfort applications. Available with lower GWP R513A refrigerant, the new range features 2 or 3 compressors in multi-circuit configuration.

Key Features & Benefits

- Compact design
- Low noise
- Energy efficient
- Lower GWP R513A refrigerant



MODEL	0322	0352	0402	0472	0512	0572	0652	0702	0772	0852	0902	1002	
POWER SUPPLY	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
PERFORMANCE													
COOLING ONLY (GROSS VALUE)													
COOLING CAPACITY ¹	kW	310.2	358.4	410.2	450.1	511.7	557.4	621.9	713.0	770.4	828.6	901.6	959.9
TOTAL POWER INPUT ¹	kW	103.1	115.1	128.2	148.9	164.4	177.9	211.2	226.9	251.5	276.9	300.1	321.0
EER ¹	kW/kW	3.009	3.114	3.200	3.023	3.113	3.133	2.945	3.142	3.063	2.992	3.004	2.990
ESEER ¹	kW/kW	4.400	4.440	4.480	4.490	4.470	4.480	4.470	4.450	4.470	4.440	4.460	4.470
COOLING ONLY (EN14511 VALUE)													
COOLING CAPACITY ¹²	kW	309.8	358.0	409.8	449.7	511.2	556.9	621.3	712.4	769.7	828.0	901.0	959.1
EER ¹²	kW/kW	2.980	3.080	3.160	2.990	3.080	3.100	2.910	3.110	3.020	2.960	2.970	2.960
ESEER ¹²		4.270	4.280	4.320	4.310	4.320	4.310	4.300	4.290	4.280	4.280	4.300	4.300
ENERGY EFFICIENCY													
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)													
AMBIENT REFRIGERATION													
P _{RATED,C} ⁷	kW	310	358	410	450	511	557	621	712	770	828	901	959
SEER ^{7,8}		4.46	4.50	4.56	4.55	4.57	4.55	4.55	4.56	4.58	4.56	4.58	4.58
PERFORMANCE η _S ^{7,9}	%	175	177	179	179	180	179	179	180	180	180	180	180
EXCHANGERS													
HEAT EXCHANGER USER SIDE IN REFRIGERATION													
WATER FLOW ¹	l/s	14.83	17.14	19.62	21.53	24.47	26.66	29.74	34.10	36.84	39.63	43.12	45.90
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	25.7	34.3	38.5	46.4	36.6	43.5	43.2	45.2	52.8	43.5	45.5	51.6
REFRIGERANT CIRCUIT													
COMPRESSORS NR.	No.	2	2	2	2	2	2	2	2	2	2	2	2
CIRCUITS	No.	2	2	2	2	2	2	2	2	2	2	2	2
REFRIGERANT CHARGE	kg	57.0	66.0	76.0	81.0	93.0	103	113	131	140	150	163	173
NOISE LEVEL													
SOUND PRESSURE ³	dB(A)	55	55	56	56	57	57	57	57	58	58	59	59
SOUND POWER LEVEL IN COOLING ^{4,5}	dB(A)	87	87	88	88	89	89	89	90	91	91	92	92
SIZE AND WEIGHT													
WIDTH ⁶	mm	2750	4000	4000	4000	5250	5250	5250	6500	6500	6500	7750	7750
DEPTH ⁶	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT ⁶	mm	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640
OPERATING WEIGHT ⁶	kg	3380	3830	3960	4000	5270	5680	5720	6600	7090	7590	8100	8270

FX2

R513A Air Cooled Chiller

(1,098kW to 1,773kW)

Low Noise Version (/SL-K)



CLIMAVENETA

Notes:

1. Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
2. Values in compliance with EN14511.
3. Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
4. Sound power on the basis of measurements taken in compliance with ISO 9614.
5. Sound power level in cooling, outdoors.
6. Unit in standard configuration, without optional accessories.
7. Parameter calculated according to [REGULATION (EU) N. 2016/2281].
8. Seasonal energy efficiency ratio.
9. Seasonal space cooling energy efficiency.

Eurovent Certified Data

The Climaveneta range of **FX2** units are air cooled chillers with screw compressors, designed for delivering high efficiencies in comfort applications. Available with lower GWP R513A refrigerant, the new range features 2 or 3 compressors in multi-circuit configuration.

Key Features & Benefits

- Compact design
- Low noise
- Energy efficient
- Lower GWP R513A refrigerant



MODEL	1052	1102	1152	1222	1262	1322	1402	1503	1593	1663	1773	1883	
POWER SUPPLY	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
PERFORMANCE													
COOLING ONLY (GROSS VALUE)													
COOLING CAPACITY ¹	kW	1037	1098	1131	1222	1257	1284	1386	1451	1573	1645	1714	1773
TOTAL POWER INPUT ¹	kW	341.7	359.9	347.4	388.0	415.0	441.0	467.8	483.3	519.5	550.6	593.8	620.9
EER ¹	kW/kW	3.035	3.051	3.256	3.149	3.029	2.912	2.963	3.002	3.028	2.988	2.886	2.856
ESEER ¹	kW/kW	4.450	4.480	4.480	4.480	4.450	4.470	4.480	4.450	4.470	4.440	4.440	4.450
COOLING ONLY (EN14511 VALUE)													
COOLING CAPACITY ¹²	kW	1037	1097	1130	1222	1256	1283	1385	1451	1572	1644	1714	1772
EER ¹²	kW/kW	3.000	3.020	3.210	3.110	3.000	2.880	2.930	2.970	2.990	2.960	2.860	2.820
ESEER ¹²		4.290	4.300	4.290	4.290	4.290	4.310	4.290	4.290	4.290	4.300	4.280	4.280
ENERGY EFFICIENCY													
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)													
AMBIENT REFRIGERATION													
P _{RATED,C} ⁷	kW	1037	1097	1130	1222	1256	1283	1385	1451	1572	1644	1714	1772
SEER ^{7,8}		4.56	4.59	4.62	4.62	4.58	4.55	4.58	4.59	4.61	4.59	4.57	4.57
PERFORMANCE η _S ^{7,9}	%	179	180	182	182	180	179	180	180	182	180	180	180
EXCHANGERS													
HEAT EXCHANGER USER SIDE IN REFRIGERATION													
WATER FLOW ¹	l/s	49.60	52.51	54.06	58.46	60.10	61.40	66.26	69.40	75.22	78.65	81.99	84.78
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	46.6	52.2	55.3	60.7	48.2	50.3	58.6	48.7	57.2	44.1	47.9	55.0
REFRIGERANT CIRCUIT													
COMPRESSORS NR.	No.	2	2	2	2	2	2	3	3	3	3	3	3
CIRCUITS	No.	2	2	2	2	2	2	3	3	3	3	3	3
REFRIGERANT CHARGE	kg	187	199	207	222	228	232	251	263	285	297	308	318
NOISE LEVEL													
SOUND PRESSURE ³	dB(A)	60	60	61	61	61	61	61	61	61	61	61	62
SOUND POWER LEVEL IN COOLING ^{4,5}	dB(A)	93	93	94	94	94	94	94	94	94	94	94	95
SIZE AND WEIGHT													
WIDTH ⁶	mm	9000	9000	10250	10250	10400	10400	11650	11650	12900	12900	12900	12900
DEPTH ⁶	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT ⁶	mm	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640
OPERATING WEIGHT ⁶	kg	8920	9060	9640	9710	10060	10150	10720	12980	13560	13560	13650	13670

FX2

R513A Air Cooled Chiller

(340kW to 1,372kW)

High Efficiency Version (/E)



CLIMAVENETA

Notes:

1. Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
2. Values in compliance with EN14511.
3. Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
4. Sound power on the basis of measurements taken in compliance with ISO 9614.
5. Sound power level in cooling, outdoors.
6. Unit in standard configuration, without optional accessories.
7. Parameter calculated according to [REGULATION (EU) N. 2016/2281].
8. Seasonal energy efficiency ratio.
9. Seasonal space cooling energy efficiency.

Eurovent Certified Data

The Climaveneta range of **FX2** units are air cooled chillers with screw compressors, designed for delivering high efficiencies in comfort applications. Available with lower GWP R513A refrigerant, the new range features 2 or 3 compressors in multi-circuit configuration.

Key Features & Benefits

- Compact design
- Low noise
- Energy efficient
- Lower GWP R513A refrigerant



MODEL	0352	0402	0452	0472	0572	0602	0652	0702	0772	0852	0902	1002	1052	1152	1222	1322	1402	
POWER SUPPLY	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
PERFORMANCE																		
COOLING ONLY (GROSS VALUE)																		
COOLING CAPACITY ¹	kW	340.3	389.8	444.9	485.0	570.3	619.0	658.9	698.5	756.1	844.7	918.1	1001	1061	1133	1207	1311	1372
TOTAL POWER INPUT ¹	kW	98.73	113.1	128.5	142.9	163.3	178.3	189.4	200.5	222.8	246.7	267.5	289.5	310.9	331.5	352.4	390.1	409.2
EER ¹	kW/kW	3.448	3.447	3.462	3.394	3.492	3.472	3.479	3.484	3.394	3.424	3.432	3.458	3.413	3.418	3.425	3.361	3.353
ESEER ¹	kW/kW	4.610	4.630	4.520	4.620	4.610	4.610	4.620	4.640	4.620	4.610	4.630	4.680	4.630	4.650	4.650	4.580	4.610
COOLING ONLY (EN14511 VALUE)																		
COOLING CAPACITY ¹²	kW	339.9	389.4	444.5	484.6	569.8	618.5	658.4	697.9	755.5	844.1	917.4	1000	1060	1132	1206	1310	1371
EER ¹²	kW/kW	3.410	3.410	3.430	3.360	3.450	3.440	3.440	3.440	3.360	3.390	3.390	3.410	3.370	3.370	3.380	3.330	3.320
ESEER ¹²		4.470	4.470	4.490	4.490	4.440	4.470	4.470	4.470	4.450	4.450	4.450	4.450	4.470	4.440	4.440	4.450	4.450
ENERGY EFFICIENCY																		
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)																		
AMBIENT REFRIGERATION																		
P _{RATED,C} ⁷	kW	340	389	444	485	570	618	658	689	756	844	917	1000	1060	1132	1206	1310	1371
SEER ^{7,8}		4.63	4.64	4.69	4.66	4.72	4.64	4.66	4.73	4.71	4.71	4.74	4.79	4.72	4.74	4.74	4.66	4.69
PERFORMANCE η _S ^{7,9}	%	182	182	185	183	186	183	183	186	185	185	187	188	186	187	187	183	185
EXCHANGERS																		
HEAT EXCHANGER USER SIDE IN REFRIGERATION																		
WATER FLOW ¹	l/s	16.27	18.64	21.27	23.20	27.27	29.60	31.51	33.40	36.16	40.40	43.90	47.88	50.72	54.17	57.73	62.68	65.62
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	26.5	34.8	27.7	32.9	41.4	34.1	38.6	43.4	36.3	40.0	47.2	61.2	48.7	53.2	59.2	39.7	43.5
REFRIGERANT CIRCUIT																		
COMPRESSORS NR.	No.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
CIRCUITS	No.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
REFRIGERANT CHARGE	kg	65.0	76.0	86.0	94.0	109	117	126	134	143	160	173	188	200	213	227	244	258
NOISE LEVEL																		
SOUND PRESSURE ³	dB(A)	66	67	67	67	67	67	68	68	68	68	69	69	70	70	70	71	
SOUND POWER LEVEL IN COOLING ^{4,5}	dB(A)	98	99	99	99	99	100	101	101	101	102	102	103	103	103	103	104	
SIZE AND WEIGHT																		
WIDTH ⁶	mm	4000	5250	5250	5250	6500	6500	7750	7750	7750	9000	9000	10250	10250	11650	11650	11650	12900
DEPTH ⁶	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	
HEIGHT ⁶	mm	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	
OPERATING WEIGHT ⁶	kg	3660	4270	4390	4440	5660	5960	6420	6550	6640	7530	8060	8570	8920	9430	9550	10490	11150

FX2

HFO1234ze

Air Cooled Chiller

(255kW to 1,561kW)

High Efficiency Version (/A)



CLIMAVENETA

Notes:

1. Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
2. Values in compliance with EN14511.
3. Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
4. Sound power on the basis of measurements taken in compliance with ISO 9614.
5. Sound power level in cooling, outdoors.
6. Unit in standard configuration, without optional accessories.
7. Parameter calculated according to [REGULATION (EU) N. 2016/2281].
8. Seasonal energy efficiency ratio.
9. Seasonal space cooling energy efficiency.

Eurovent Certified Data

The Climaveneta range of **FX2** units are air cooled chillers with screw compressors, designed for delivering high efficiencies in comfort applications. Available with HFO1234ze refrigerant, the new range features 2 or 3 compressors in multi-circuit configuration.

Key Features & Benefits

- Compact design
- Low noise
- Energy efficient
- Low GWP HFO1234ze refrigerant



MODEL	0252	0302	0322	0352	0402	0452	0512	0572	0652	0772	0902	0972	1052	1152	1243	1373	1503	1593	
POWER SUPPLY	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50		
PERFORMANCE																			
COOLING ONLY (GROSS VALUE)																			
COOLING CAPACITY ¹	kW	255.3	289.9	315.1	365.0	405.4	445.9	519.7	573.4	679.0	781.7	903.5	967.9	1058	1145	1239	1362	1488	1561
TOTAL POWER INPUT ¹	kW	75.98	87.26	94.43	106.7	121.7	135.2	156.8	172.2	204.8	235.6	276.0	287.2	319.7	343.6	373.1	415.8	446.3	473.4
EER ¹	kW/kW	3.359	3.321	3.338	3.421	3.331	3.298	3.314	3.330	3.315	3.318	3.274	3.370	3.309	3.332	3.321	3.276	3.334	3.297
ESEER ¹	kW/kW	4.530	4.500	4.560	4.480	4.500	4.590	4.530	4.570	4.530	4.550	4.530	4.540	4.590	4.630	4.550	4.570	4.590	4.600
COOLING ONLY (EN14511 VALUE)																			
COOLING CAPACITY ¹²	kW	255.0	289.5	314.7	364.7	405.0	445.4	519.2	572.9	678.4	781.0	902.9	967.1	1057	1145	1238	1361	1487	1560
EER ¹²	kW/kW	3.320	3.280	3.310	3.390	3.290	3.250	3.280	3.290	3.270	3.270	3.240	3.330	3.270	3.290	3.280	3.240	3.290	3.250
ENERGY EFFICIENCY																			
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)																			
AMBIENT REFRIGERATION																			
P _{NETECD} ⁷	kW	255	290	315	365	405	445	519	573	678	781	903	967	1057	1145	1238	1361	1487	1560
SEER ⁷⁸		4.55	4.52	4.61	4.54	4.56	4.61	4.56	4.61	4.60	4.63	4.61	4.64	4.65	4.69	4.63	4.58	4.67	4.69
PERFORMANCE η _s ⁷⁹	%	179	178	181	178	179	181	179	182	181	182	181	183	183	185	182	180	184	185
EXCHANGERS																			
HEAT EXCHANGER USER SIDE IN REFRIGERATION																			
WATER FLOW ¹	l/s	12.21	13.86	15.07	17.46	19.39	21.32	24.85	27.42	32.47	37.38	43.21	46.28	50.57	54.77	59.24	65.14	71.14	74.65
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	38.1	36.3	23.9	32.1	39.7	48.0	34.3	41.8	51.5	54.3	35.3	52.5	48.4	53.3	46.9	46.2	55.1	60.7
REFRIGERANT CIRCUIT																			
COMPRESSORS NR.	No.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3
CIRCUITS	No.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3
REFRIGERANT CHARGE	kg	51.0	55.0	59.0	67.0	72.0	81.0	93.0	98.0	123	142	152	160	191	195	216	222	232	248
NOISE LEVEL																			
SOUND PRESSURE ³	dB(A)	66	67	67	68	68	68	68	70	69	70	71	71	73	73	73	73	73	
SOUND POWER LEVEL IN COOLING ⁴⁵	dB(A)	98	99	99	100	100	100	100	102	102	103	104	104	106	106	106	106	106	
SIZE AND WEIGHT																			
WIDTH ⁶	mm	4000	4000	4000	4000	4000	5250	5250	5250	6500	7750	7750	9000	10400	10400	11650	11650	12900	12900
DEPTH ⁶	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	
HEIGHT ⁶	mm	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	
OPERATING WEIGHT ⁶	kg	3540	3560	3660	3810	4470	4990	5190	5250	6710	7650	7900	8340	9370	9440	11380	12070	12680	12930

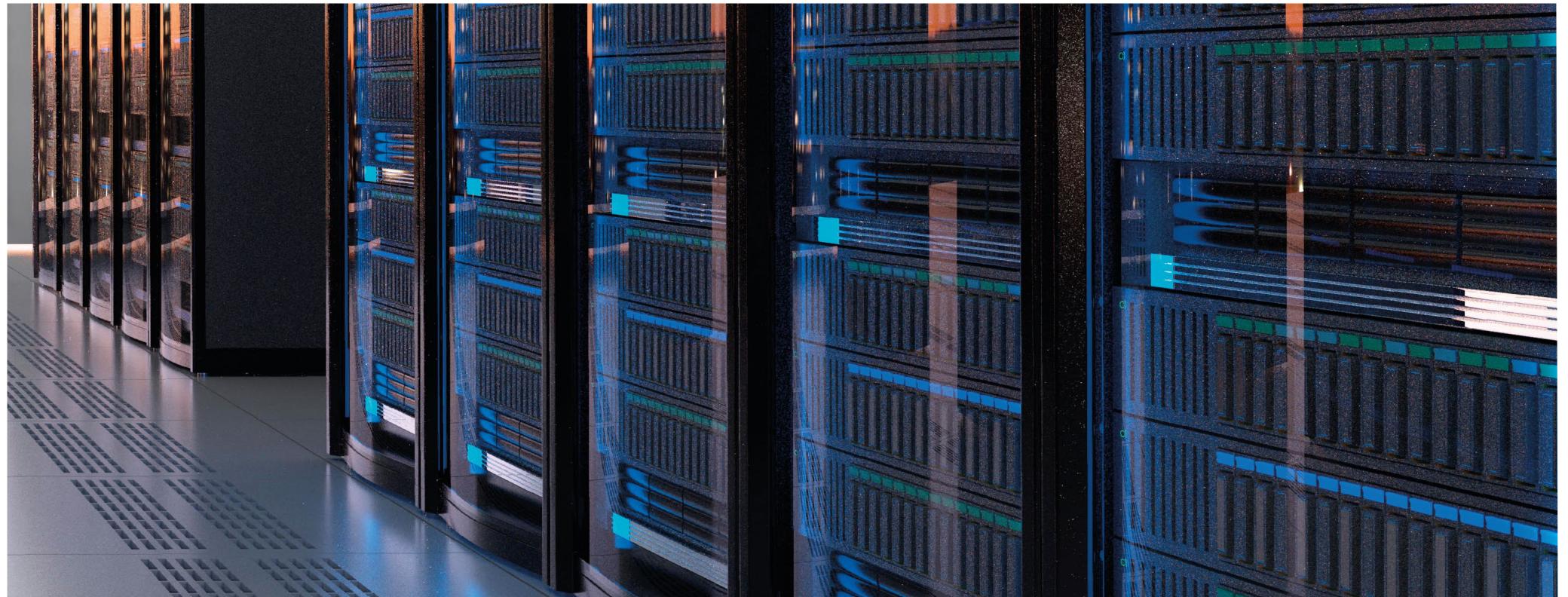
Commercial Heat Pumps & Chillers Accessories / Optional Extras

DESCRIPTION	MODEL REF.
e-Series Fin Guard for EACV-M / EAHV-M	EC-130FG
Ecodan CRHV Main Pipework Thermistor	TW-TH16
Differential Pressure Switch for Water Systems	KS10-EP100S
Wired Remote Controller	PAR-W21MAA-J
Centralised Controller	AE-200E
AE-200E Wall Mounted Box - for Wall Mounting	PAC-YG82TB
External Temperature Sensor and Solar Guard	TMP-O
Ecodan CAHV Main Pipework Thermistor	TW-TH16
Differential Pressure Switch for Water Systems	KS10-EP100S
Wired Remote Controller	PAR-W31MAA
Centralised Controller	AE-200E
AE-200E Wall Mounted Box - for Wall Mounting	PAC-YG82TB
Ecodan QAHV Main Pipework Thermistor	TW-TH16
Centralised Controller	AE-200E
AE-200E Wall Mounted Box - for Wall Mounting	PAC-YG82TB
Secondary Side Control Circuit Kit	Q-1SCK
i-BX Storage tank 30 litres	BTB30
Storage tank 60 litres	BTB60
Epoxy coated coil	
i-BX N-RS Serial card RS485 for ModBus	



IT Cooling

Close Control Computer Room
Air Conditioning Systems





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Close Control Air Conditioning Systems

Precise Temperature and Humidity Control

Complex IT environments are often characterised by variable cooling loads, which require a high cooling capacity at full load in order to allow the IT equipment to operate correctly when it is most needed.

Our IT Cooling range makes it possible to keep temperature and humidity constant, even with very wide load variations, ensuring the correct room conditions all year round.

The perfect match between efficiency and reliability

With our IT cooling systems, both efficiency and reliability are paramount throughout all the stages of research, design and manufacturing. By using this approach along **with over 50 years of manufacturing experience within the IT cooling sector**, we are able to offer tailor made IT Cooling solutions.

Close Control Air Conditioning Systems

The need for high sensible cooling and close control of both temperatures and humidity in critical IT environments has never been higher.

Mitsubishi Electric and RC IT cooling systems have been designed to fulfil this requirement, reducing operational costs in the process through the use of highly efficient technology, with many systems incorporating inverter control as standard.





■ Mitsubishi Electric Perimeter Cooling units

Mitsubishi Electric's Close Control systems are specifically designed for rooms with a high sensible cooling load that require precise temperature and humidity control. Because of the need for close control 24 hours a day, 365 days a year, an inverter driven compressor has been incorporated into the outdoor units, maximising the energy efficiency of the system.

- Connects to Mr Slim Power Inverter outdoor units
- Easily integrates into existing and new control networks
- Quick recovery following power failure
- High Sensible cooling
- Close control of supply temperature
- Back-up and rotate function available
- Easy to install - no space required at the rear of the unit
- Inverter driven capacity control



■ RC Perimeter Cooling Units

The RC IT Cooling range of perimeter, upflow or downflow units have been designed to cool new and existing IT rooms efficiently and effectively. The perimeter range offers a broad range of unit types to meet any IT perimeter cooling demand.

- Precise temperature and humidity control
- New generation EC PUL (Polymeric ULtralight) high efficiency fans
- DC inverter technology
- Free cooling available
- Dual fluid circuits for the highest reliability
- Advanced control systems



MSY-TP

R32 High SHF Wall Mounted System

Inverter (Cooling Only)

The M Series **MSY-TP** R32 High SHF wall mounted system blends energy efficiency with a modern design. This cooling only unit has a high sensible cooling capacity, making it ideal for small computer rooms and areas that require a greater degree of sensible cooling. The MSY-TP also utilises lower GWP R32 refrigerant.

Key Features & Benefits

- Compact and stylish white design
- High sensible cooling ability
- Weekly timer provides greater control of scheduling
- Cooling down to -25°C outdoor air temperature



MSY-TP - INDOOR UNITS		MSY-TP35VF	MSY-TP50VF
CAPACITY (kW)	Cooling (nominal) Cooling (UK)	3.5 (1.5-4.0) 3.47 (1.48-3.96)	5.0 (1.5-5.7) 4.96 (1.48-5.65)
SHF (nominal)		0.98	0.82
EER (nominal)		4.61	3.45
SEER (BS EN14825)		9.00	8.00
E/P ENERGY EFFICIENCY CLASS	Cooling	A+++	A++
AIRFLOW (l/s)	Cooling - Lo-Mi-Hi-SHi	168-193-228-273	168-193-228-273
PIPE SIZE mm (in)	Gas Liquid	9.52 (3/8") 6.35 (1/4")	9.52 (3/8") 6.35 (1/4")
SOUND PRESSURE LEVEL (dBA)	Cooling - Lo-Mi-Hi-SHi	31-36-40-45	31-36-40-45
SOUND POWER LEVEL (dBA)		60	60
DIMENSIONS (mm)	Width x Depth x Height	923 x 250 x 305	923 x 250 x 305
WEIGHT (kg)		12.5	12.5
ELECTRICAL SUPPLY		220-240v, 50Hz	220-240v, 50Hz
FUSE RATING (BS88) - HRC (A)		10	10
INTERCONNECTING CABLE No. CORES		4	4

MUY-TP - OUTDOOR UNITS		MUY-TP35VF	MUY-TP50VF
SOUND PRESSURE LEVEL (dBA)	Cooling	45	47
SOUND POWER LEVEL (dBA)	Cooling	58	61
WEIGHT (kg)		34	34
DIMENSIONS (mm)	Width x Depth x Height	800 x 285 x 550	800 x 285 x 550
ELECTRICAL SUPPLY		Fed by Indoor Unit	Fed by Indoor Unit
PHASE		Single	Single
SYSTEM POWER INPUT (kW)	Cooling (nominal) Cooling (UK)	0.76 0.64	1.45 1.12
STARTING CURRENT (A)		3.6	6.4
SYSTEM RUNNING CURRENT (A)	Cooling [MAX]	3.6 [9.2]	6.4 [9.2]
FUSE RATING (BS88) - HRC (A)		10	10
MAINS CABLE No. CORES		3	3
MAX PIPE LENGTH (m)		20	20
MAX HEIGHT DIFFERENCE (m)		12	12
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) - R32 (GWP 675)		0.85 / 0.57	0.85 / 0.57
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) - R32 (GWP 675)		0.13 / 0.09	0.13 / 0.09

Notes: The SHF figures are based on nominal conditions. Requires an additional MAC-334IF-E interface and PAR-41MAA wired remote controller

s-MEXT DX

R32 Close Control System

Key Features & Benefits

- High efficiency achieved through Mr Slim Power Inverter technology
- EC plug fans fitted as standard
- Pipe runs up to 100m
- Full function - Humidifier & Heater options
- Available in Upflow [over] and Downflow [under] variants



Notes:

The cooling capacity does not consider the supply fan motor thermal load.
 *1 Gross value based on return air of 27°C - 47%RH; Ambient Temperature 35°C; ESP=20Pa;
 Interconnecting pipework length 5m. *2 SHR = Sensible cooling capacity / Total cooling capacity.
 *3 Corresponding to the nominal ESP=20Pa. *4 Sound pressure level on air return at 1m.
 *5 Rubber pipe - referred to internal diameter. *6 Minimum section.
 *7 For 70 to 100mm please consult the databook.
 *8 Optional air protection guide is required for temperatures below -5°C.
 These units contain <HFC R32 (GWP₁₀₀ 675)> fluorinated greenhouse gas.

High precision air conditioners are ideal for applications where high sensible cooling and close control of temperature and humidity are required. **s-MEXT** takes advantage of more than 50 years experience of the RC brand within the IT Cooling market, coupled with Mitsubishi Electric renowned quality standards. The split cooling package consists of the indoor s-MEXT high precision air conditioner connected to a Mr Slim R32 Power Inverter outdoor unit. The result is a full inverter split system, designed according to the best quality standards and dedicated to the most reliable IT environments.



CRAC UNITS (Computer Room Air Conditioning)	s-MEXT-G00-DX-F1-006-S	s-MEXT-G00-DX-F1-009-S	s-MEXT-G00-DX-F1-013-S	s-MEXT-G00-DX-F2-022-S	s-MEXT-G00-DX-F3-028-S	s-MEXT-G00-DX-F3-038-D	s-MEXT-G00-DX-F3-044-D	
PERFORMANCE								
COOLING CAPACITY ^{*1}	Total kW	6.81	10.1	11.9	22.5	27.4	38.9	42.3
	Sensible kW	6.08	8.88	10.2	19.3	25.4	33.6	35.2
SHR ^{*2}		0.89	0.88	0.86	0.86	0.93	0.86	0.83
EER		4.67	4.3	3.49	3.16	2.61	3.56	2.87
REFRIGERANT								
REFRIGERANT	Type	R32	R32	R32	R32	R32	R32	R32
REFRIGERANT CIRCUITS	No.	1	1	1	1	1	2	2
CONNECTIONS								
REFRIGERANT PIPES DIAMETER - GAS	Ø Inch	5/8"	5/8"	5/8"	1"	1"	1"	1"
REFRIGERANT PIPES DIAMETER - LIQUID	Ø Inch	3/8"	3/8"	3/8"	1/2"	1/2"	3/8"	1/2"
CONDENSATE ^{*5}	Ø mm	19	19	19	19	19	19	19
POWER SUPPLY WIRING CABLE ^{*6}	No. x mm ²	3G1.5	3G1.5	3G1.5	3G1.5	5G1.5	5G1.5	5G1.5
FANS								
FAN TYPE	EC BASIC	EC BASIC						
EC SUPPLY FAN	No.	1	1	1	2	1	1	1
AIRFLOW	m ³ /h	2,000	2,500	2,800	5,000	7,600	8,800	10,000
NOMINAL EXTERNAL STATIC PRESSURE	Pa	20	20	20	20	20	20	20
POWER INPUT ^{*3}	kW	0.21	0.35	0.47	0.7	0.64	1.43	1.96
ELECTRICAL HEATER								
QUANTITY	No.	1	1	1	1	1	1	1
STEPS	No.	2	2	2	3	3	3	3
ELECTRICAL POWER ABS.	kW	2.6	2.6	2.6	3.9	9	9	9
MAX ABSORBED CURRENT	A	11.3	11.3	11.3	17	13	13	13
HUMIDIFIER								
QUANTITY	No.	1	1	1	1	1	1	1
CAPACITY	kg/h	3	3	3	3	8	8	8
ELECTRICAL POWER ABS.	kW	2.3	2.3	2.3	2.3	6	6	6
MAX ABSORBED CURRENT	A	14.1	14.1	14.1	14.1	12.4	12.4	12.4
SOUND LEVEL [ISO 3744]^{*4}								
PRESSURE LEVEL	dB(A)	53	57	61	60	60	63	67
POWER LEVEL	dB(A)	69	73	77	76	76	79	83
ELECTRICAL DATA								
POWER SUPPLY	V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	400/3+N/50	400/3+N/50	400/3+N/50
STARTING CURRENT	A	2	2	2.8	3.3	3.4	3.8	3.8
MAX ABSORBED CURRENT	A	27.7	27.7	28.2	35	28.8	29.2	29.2
DIMENSIONS AND WEIGHT								
DIMENSIONS	Width mm	600	600	600	1000	1000	1000	1000
	Depth mm	500	500	500	500	890	890	890
	Height mm	1,980	1,980	1,980	1,980	1,980	1,980	1,980
NET WEIGHT	Upflow (O) kg	103	106	110	165	237	237	237
	Downflow (U) kg	110	115	120	175	247	247	247

OUTDOOR UNITS	PUZ-ZM60VHA2	PUZ-ZM100VKA2	PUZ-ZM125YKA2	PUZ-ZM250YKA2	PUZ-ZM250YKA2	2 x PUZ-ZM200YKA2	2 x PUZ-ZM250YKA2
SOUND PRESSURE LEVEL (dB(A))	Cooling	47	49	50	59	59	59
WEIGHT (kg)		67	105	114	138	138	138
DIMENSIONS (mm)	Width x Depth x Height	950 x 330+25 x 943	1050 x 330+40 x 1338	1050 x 330+40 x 1338	1050 x 330+40 x 1338	1050 x 330+40 x 1338	1050 x 330+40 x 1338
ELECTRICAL SUPPLY		220-240v, 50Hz	220-240v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE	Single	Single	Three	Three	Three	Three	Three
OUTDOOR POWER INPUT (kW)	Cooling (nominal)	1.25	2.00	2.94	6.41	6.41	4.73
STARTING CURRENT (A)		6.0	13.0	6.0	12.3	12.3	8.67
MAX RUNNING CURRENT (A)	Cooling	19.2	27.0	10.0	22.5	22.5	22.5
FUSE RATING (BS88) - HRC (A)		25	32	16	32	32	32
MAINS CABLE	No. Cores	3	3	5	5	5	5
MAX PIPE LENGTH (m)		55	100	100	100	100	100
MAX HEIGHT DIFFERENCE (m)		30	30	30	30	30	30
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675)	2.80 / 1.89 (30m)	3.60 / 2.43 (40m)	3.60 / 2.43 (40m)	6.80 / 4.59 (30m)	6.80 / 4.59 (30m)	6.30 / 4.25 (30m)
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675)	0.80 / 0.54	2.40 / 1.62	2.40 / 1.62	2.40 / 1.62 (70m) ⁷	2.40 / 1.62 (70m) ⁷	2.40 / 1.62 (70m) ⁷
GUARANTEED OPERATING RANGE (°C)	Max Temp	46	46	46	46	46	46
	Min Temp ⁸	-15	-15	-15	-15	-15	-15

x-MEXT DX

R410A Close Control System



The **x-MEXT DX** is a highly efficient computer room air conditioner (CRAC), incorporating a wide range of options and configurations, and manufactured to the highest Mitsubishi Electric quality and reliability standards. The x-MEXT includes BLDC Mitsubishi Electric compressors, microchannel heat exchanger options, and an EC fan on the indoor unit with an impeller made of recycled plastic, that is specifically design for the x-MEXT range.

Key Features & Benefits

- Perimeter unit with upflow (over) and downflow (under) configurations
- Full inverter technology with BLDC Mitsubishi Electric compressors and a proprietary fan design
- Excellent efficiency with load matching control
- Advanced in-house developed control software
- Intelligent LAN controls for up to 15 units
- Interface cards available with many common BEMS protocols
- Automatic transfer switches and fast restart options
- Optional low ambient temperature kit for extreme conditions
- Full function humidifier and heating options
- Optional dampers, floor stands and discharge plenums



CRAC UNITS (Computer Room Air Conditioning)	x-MEXT-I-G02 -DX-U/O-029	x-MEXT-I-G02 -DX-U/O-040	x-MEXT-I-G02 -DX-U/O-051	x-MEXT-I-G02 -DX-U/O-052	x-MEXT-I-G02 -DX-U/O-067	x-MEXT-I-G02 -DX-U/O-076	x-MEXT-I-G02 -DX-U/O-078	x-MEXT-I-G02 -DX-U/O-090	x-MEXT-I-G02 -DX-U/O-108	x-MEXT-I-G02 -DX-U/O-140	
PERFORMANCE - WITH CONDENSERS LISTED											
COOLING CAPACITY ¹ Total	kW	27.7	38.8	49.5	50.4	63.9	74.4	75.9	87.6	104.0	132.0
SHR Nominal		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
EER ² Nominal		3.45	3.32	2.93	3.55	3.15	3.14	3.63	3.38	3.12	2.61
FANS											
AIRFLOW	m ³ /h	8,000	10,500	11,000	14,750	17,000	17,000	21,500	22,500	25,500	27,000
FAN TYPE		Centrifugal EC	Centrifugal EC								
FANS	No.	1	1	1	2	2	2	2	2	3	3
POWER INPUT	kW	0.80	1.61	1.85	2.16	3.20	3.22	3.21	3.66	5.15	6.24
MAX EXTERNAL STATIC PRESSURE	Pa	364	299	243	237	173	169	300	245	141	84
REFRIGERANT											
REFRIGERANT		R410A	R410A								
REFRIGERANT CIRCUITS	No.	1	1	1	1	1	1	2	2	2	2
COMPRESSOR(S) TYPE	Operating Mode	i	i	i	i	1 + i	1 + i	2(i)	2(i)	2(1 + i)	2(1 + i)
FILTERS											
FILTERS	No.	2	2	2	3	3	3	4	4	4	4
EFFICIENCY CLASS ³		Coarse	60%	60%	60%	60%	60%	60%	60%	60%	60%
SOUND LEVEL											
PRESSURE LEVEL ⁴ Downflow [under] / Upflow [over]	dB(A)	50 / 69	47 / 65	47 / 64	48 / 66	47 / 65	47 / 64	49 / 68	49 / 67	50 / 69	52 / 69
POWER LEVEL ⁴ Downflow [under] / Upflow [over]	dB(A)	67 / 86	64 / 82	64 / 81	65 / 83	64 / 82	64 / 81	67 / 86	67 / 85	68 / 87	70 / 87
ELECTRICAL											
POWER SUPPLY	V/ph/Hz	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50
MAX RUNNING CURRENT	FLA	A	30.6	41.5	41.5	47	57.4	57.4	82	82	108
DIMENSIONS AND WEIGHT											
FRAME SIZE	M	M	M	L	L	L	XL	XL	XL	XL	
DIMENSIONS	Width	mm	1,142	1,142	1,142	1,600	1,600	2,550	2,550	2,550	2,550
	Depth	mm	885	885	885	885	885	885	885	885	885
	Height	mm	1,980	1,980	1,980	1,980	1,980	1,980	1,980	1,980	1,980
NET WEIGHT	Upflow [over]	kg	363	372	375	459	502	503	799	806	915
	Downflow [under]	kg	372	380	383	477	520	521	839	846	955
CONNECTIONS⁵											
REFRIGERANT PIPE	Gas	Ø mm	18	22	22	22	28	28	2 x 22	2 x 22	2 x 28
DIAMETER	Liquid	Ø mm	16	18	18	18	18	18	2 x 18	2 x 18	2 x 18
CONDENSATE DRAIN ⁶		Ø mm	19	19	19	19	19	19	19	19	19
OUTDOOR REMOTE CONDENSER(S) ⁷	MEGR-MC-E 034	MEGR-MC-E 049	MEGR-MC-E 067	MEGR-MC-E 067	MEGR-MC-E 082	MEGR-MC-E 110	2 x MEGR-MC-E 049	2 x MEGR-MC-E 055	2 x MEGR-MC-E 067	2 x MEGR-MC-E 082	
FAN TYPE⁸											
FAN TYPE		Axial EC									
FANS	No.	1	2	2	2	3	4	2	2	3	
AIRFLOW	m ³ /h	9,550	15,555	19,000	19,000	25,000	36,600	15,555	18,300	19,000	25,000
POWER SUPPLY	V/ph/Hz	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50
MAX RUNNING CURRENT	FLA	A	1.92	3.84	3.84	5.76	7.68	3.84	3.84	3.84	5.76
SOUND LEVEL ⁴	Pressure	dB(A)	56	54	58	58	59	59	54	57	59
DIMENSIONS ⁹	Width	mm	1,140	1,140	1,140	1,140	1,140	2,200	1,140	1,140	1,140
	Length	mm	1,360	2,040	2,600	2,600	2,600	2,280	2,040	2,040	2,600
	Height	mm	1,168	1,168	1,168	1,168	1,168	1,168	1,168	1,168	1,168
NET WEIGHT	kg	50	82	96	96	114	169	82	82	96	114
CONNECTION SIZE ⁵	Gas	Ø mm	18	22	22	22	28	28	22	22	28
REFRIGERANT PIPE DIAMETER	Liquid	Ø mm	16	18	18	18	22	22	18	18	22

Notes:

- *1 Gross Total Values shown for Downflow [under] airflow configuration. Operating Conditions: Return Air Temperature: 30°C / Relative Humidity: 35% / Ambient: 35°C / External Static Pressure: 20Pa
- *2 EER for indoor unit only.
- *3 As per ISO EN 16890. Other filter options are available.
- *4 Average sound level, at 1m distance, unit in a free field on a reflective surface according to ISO 3744.
- *5 Equipment connection only; consult x-MEXT / MEGR databooks for interconnecting pipework sizing.
- *6 Rubber pipe - refers to internal diameter.
- *7 All data is "per condenser". Typical condenser arrangement shown, other condenser sizing combinations are available.
- *8 Other type of fans are available.
- *9 Based on vertical airflow direction.
- These units contain <HFC R410A [GWP₁₀₀ 2088]> fluorinated greenhouse gas.

w-MEXT

Chilled Water Close Control System



The **w-MEXT** chilled water range incorporates the latest EC Plug fans, advanced controls software and maximises the coil area to bring high efficiency and high SHR performance to smaller data centre and server room environments.

Group controls and smart control strategies are not reserved for larger environments: w-MEXT can operate with intelligent integrated LAN functions for active redundancy and also integrate with the Hydronic Plant Connect (HPC) group control system, bringing harmony between the CRAHs and Chillers.

Additional options for electric heating and humidification further extend control and operational functionality.

Key Features & Benefits

- Compact footprint with Under, Over and Displacement airflows
- Adaptive set-point
- High efficiency EC plug fans
- LAN controls for up to 15 units
- Variety of valve options

CRAH UNITS (Computer Room Air Handler)		w-MEXT U/O 006 F1	w-MEXT U/O 009 F1	w-MEXT U/O 011 F1	w-MEXT U/O 013 F1	w-MEXT U/O 016 F2	w-MEXT U/O 022 F2	w-MEXT U/O 026 F2
PERFORMANCE								
COOLING CAPACITY ^{*1}	Total kW	4.6	7.9	9.7	12.5	15.4	20.4	25.6
SHR	Nominal	1.00	1.00	1.00	1.00	1.00	1.00	1.00
EER ^{*2}	Nominal	65.3	37.6	30.2	27.8	38.5	30.0	26.9
FANS								
AIRFLOW	m ³ /h	1,500	2,200	2,500	2,700	4,300	5,000	5,400
FAN TYPE		Centrifugal EC						
FANS	No.	1	1	1	1	2	2	2
POWER INPUT	kW	0.07	0.21	0.32	0.45	0.40	0.68	0.95
MAX EXTERNAL STATIC PRESSURE	Pa	201	471	384	276	277	370	254
WATER CIRCUIT								
FLOW RATE	l/s	0.22	0.38	0.46	0.60	0.74	0.97	1.22
PRESSURE DROP ^{*3}	kPa	23.5	61.1	32.2	55.7	46.5	80.2	108
FILTERS								
FILTERS	No.	1	1	1	1	2	2	2
EFFICIENCY CLASS ^{*4}		Coarse	60%	60%	60%	60%	60%	60%
SOUND LEVEL								
PRESSURE LEVEL ^{*5}	dB(A)	43	56	58	60	53	60	62
POWER LEVEL ^{*6}	dB(A)	59	72	74	76	69	76	78
ELECTRICAL								
POWER SUPPLY	V/ph/Hz	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50
MAX RUNNING CURRENT ^{*6}	FLA A	3.6	4.0	4.0	4.0	7.2	8.0	8.0
ELECTRIC HEATER (optional)								
STEPS	No.	2	2	2	2	3	3	3
CAPACITY	kW	2.6	2.6	2.6	2.6	3.9	3.9	3.9
MAX RUNNING CURRENT ^{*7}	FLA A	11.3	11.3	11.3	11.3	16.9	16.9	16.9
HUMIDIFIER (optional)								
QUANTITY	No.	1	1	1	1	1	1	1
CAPACITY	kg/h	3.0	3.0	3.0	3.0	3.0	3.0	3.0
MAX RUNNING CURRENT ^{*8}	FLA A	14.1	14.1	14.1	14.1	14.1	14.1	14.1
DIMENSIONS AND WEIGHT								
FRAME SIZE		F1	F1	F1	F1	F2	F2	F2
DIMENSIONS	Width mm	600	600	600	600	1,000	1,000	1,000
	Depth mm	500	500	500	500	500	500	500
	Height mm	1,980	1,980	1,980	1,980	1,980	1,980	1,980
NET WEIGHT								
Uptow [over]	kg	103	109	116	120	163	173	181
Downflow [under]	kg	110	118	126	130	173	183	191
CONNECTIONS								
WATER ^{*9}	Inlet Ø inch	3/4"	3/4"	3/4"	1"	1 1/4"	1 1/4"	1 1/4"
	Outlet Ø inch	3/4"	3/4"	3/4"	1"	1 1/4"	1 1/4"	1 1/4"
CONDENSATE DRAIN^{*10}								
	Ø mm	19	19	19	19	19	19	19

Notes:

*1: Gross total values shown. Operating conditions: Return Air Temperature: 26°C /

Relative Humidity: 40% / Water Inlet: 10°C / Water ΔT: 5K / Glycol: 0% / External Static Pressure: 20Pa.

*2: EER for indoor unit only.

*3: For heat exchanger coil and 2-port valve only.

*4: As per ISO EN 16890. Other filter options are available.

*5: Average sound level, at 1m distance, unit in a free field on a reflective surface according to ISO 3744.

Values for downflow [under] and upflow [over] only.

*6: Cooling only version. Humidifier / electrical heating options will change value. Refer to databook.

*7: For electric heater only.

*8: For humidifier only.

*9: As per ISO 228/1-G.

*10: Rubber pipe - refers to internal diameter.

w-NEXT

Chilled Water Close Control System



High precision air conditioners are ideal for applications where high sensible cooling and close control of temperature and humidity are required. The **w-NEXT** chilled water range incorporates the latest EC plug fan(s), advanced controls software and an increased coil area resulting in the highest efficiency.

Key Features & Benefits

- High Efficiency - EC plug fans
- Small footprint
- Adaptive Set Point
- Active Redundancy
- Available in Upflow [over] and Downflow [under] variants

CRAH UNITS (Computer Room Air Handler)	w-NEXT S 045 E3P	w-NEXT S 053 E4	w-NEXT S 072 E5	w-NEXT S 081 E6
CAPACITY (kW) ²				
Total	41.0	48.1	66.1	73.5
Sensible	41.0	48.1	66.1	73.5
SHR ³	1.00	1.00	1.00	1.00
EER	18.6	22.4	22.8	21.2
EC SUPPLY FAN(S)	No.	1	1	2
AIRFLOW (m ³ /h)		10,800	13,100	16,350
EXTERNAL STATIC PRESSURE (Pa)		20	20	20
MAX EXTERNAL STATIC PRESSURE (Pa)		297	194	532
POWER INPUT (kW) ⁴		2.20	2.15	2.90
AIR FILTERS	No.	2	3	3
	Extended filtering surface (m ²)	1.71	2.07	2.59
	Efficiency [ISO EN 16890] (COARSE)	60%	60%	60%
CHILLED WATER FLOW RATE (l/s)		1.96	2.30	3.16
WATERSIDE PRESSURE DROP (kPa)	Coil + 2-Port Valve	34.1	37.3	42.9
SOUND LEVEL dB(A) (ISO3774) ⁵	Downflow - Power / Pressure	73 / 57	74 / 57	73 / 56
	Upflow - Power / Pressure	77 / 61	78 / 61	77 / 60
POWER SUPPLY (V/Ph/Hz)		400 / 3+N / 50	400 / 3+N / 50	400 / 3+N / 50
MAX POWER ABSORBED (kW)		2.90	2.70	5.40
MAX RUNNING CURRENT (A)		4.4	4.2	8.4
DIMENSIONS (mm)	Width	1085	1305	1630
	Depth	930	930	930
	Height	1925	1980	1980
NET WEIGHT (kg)	Downflow	321	345	470
	Upflow	329	379	428
CONNECTIONS	Water Inlet / Outlet ISO 7/1 (Ø inch)	1 1/4"	1 1/2"	2"
	Condensate (Ømm) ⁶	19	19	19

CRAH UNITS (Computer Room Air Handler)	w-NEXT S 100 E7	w-NEXT S 120 E8	w-NEXT S 138 E9	w-NEXT S 160 E10 ¹	w-NEXT S 215 E10 ¹
CAPACITY (kW) ²					
Total	91.6	111.0	126.0	147.0	204.0
Sensible	91.6	111.0	126.0	147.0	177.0
SHR ³	1.00	1.00	1.00	1.00	0.87
EER	23.0	17.8	19.6	22.8	31.7
EC SUPPLY FAN(S)	No.	2	3	3	3
AIRFLOW (m ³ /h)		24,200	28,300	33,100	37,150
EXTERNAL STATIC PRESSURE (Pa)		20	20	20	20
MAX EXTERNAL STATIC PRESSURE (Pa)		247	237	309	207
POWER INPUT (kW) ⁴		3.98	6.22	6.42	6.44
AIR FILTERS	No.	4	5	6	6
	Extended filtering surface (m ²)	3.83	4.47	5.24	6.54
	Efficiency [ISO EN 16890] (COARSE)	60%	60%	60%	60%
CHILLED WATER FLOW RATE (l/s)		4.38	5.33	6.04	7.03
WATERSIDE PRESSURE DROP (kPa)	Coil + 2-Port Valve	31.7	48.6	47	66.7
SOUND LEVEL dB(A) (ISO3774) ⁵	Downflow - Power / Pressure	76 / 59	79 / 61	80 / 62	79 / 61
	Upflow - Power / Pressure	80 / 63	83 / 65	81 / 63	N/A
POWER SUPPLY (V/Ph/Hz)		400 / 3+N / 50	400 / 3+N / 50	400 / 3+N / 50	400 / 3+N / 50
MAX POWER ABSORBED (kW)		5.40	8.10	8.70	8.10
MAX RUNNING CURRENT (A)		8.3	12.6	13.3	12.5
DIMENSIONS (mm)	Width	2175	2499	2899	3510
	Depth	930	930	930	930
	Height	1980	1980	1980	1980
NET WEIGHT (kg)	Downflow	589	660	753	900
	Upflow	535	598	679	N/A
CONNECTIONS	Water Inlet / Outlet ISO 7/1 (Ø inch)	2 1/2"	2 1/2"	3"	3"
	Condensate (Ømm) ⁶	19	19	19	19

THE COOLING CAPACITY DOES NOT CONSIDER THE SUPPLY FAN MOTOR THERMAL LOAD
1 Downflow version only.

² Gross value based on return air at 24°C - 45%RH; Chiller water 7°C / 12°C.

³ SHR = Sensible cooling capacity / Total cooling capacity.

⁴ Fan(s) input power (ESP=20Pa).

⁵ Average level at 1m from unit in free field conditions.

⁶ Rubber pipe - refers to internal diameter.

Data Centre Fan Wall



Notes:

*1: Gross Total Values shown. Operating Conditions: Return Air Temperature: 37°C.
/ Relative Humidity: 25% / Water Inlet: 20°C / Water DeltaT: 10K / Glycol: 0%.

*2: EER for indoor unit only.

*3: Corresponding to nominal external static pressure (50Pa).

*4: Modules are in parallel. Pressure drop refers to a single module for the heat exchanger coil and valve (at the listed flow rate) only.

*5: As per ISO EN 16890.

*6: Average sound level at 1m distance, unit in a free field on a reflective surface according to ISO 3744.

*7: As per UNI EN 10255. The connections refer to the supply manifold for stacked modules.

Grooved connection - the grooved flexible joint is not supplied.

*8: Rubber pipe - refers to internal diameter.

When scale is required, **RCWall** brings the performance, flexibility and reliability that is needed. It is ideal for hyperscale datacentres and large co-location customers, so that they can fully utilise their large building structures to deliver improved efficiencies and make every kW count.

By changing the airflow convention, the unit is designed for horizontal airflow at scale. This allows for taller heat exchangers, with elevated water temperatures, improving performance over conventional designs. It also allows for the separation of the white space from the technical corridor, simplifying security arrangements. Most importantly, this design eliminates the need for raised floors: simplifying building design, installation and reducing costs.

Key Features & Benefits

- Eliminates the need for raised floors in your white space
- Flexible and modular design - fully accessible from the front
- Double up - stackable modules to increase cooling density
- High efficiency, proprietary EC fan combined with a design specific heat exchanger
- Options for Automatic Transfer Switches (ATS) and Fast Restart to reduce downtime and increase redundancy

FAN WALL		081	091	131	151	162	182	201	231	262	302	402	462
PERFORMANCE													
COOLING CAPACITY ^{*1}	Total kW	77.7	89.2	131.0	142.0	155.0	178.0	198.0	209.0	262.0	283.0	397.0	418.0
SHR	Nominal	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
EER ^{*2}	Nominal	17.1	16.1	15.4	16.7	17.0	15.8	17.5	18.5	15.4	16.6	17.6	18.6
FANS													
AIRFLOW	Direction	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal
	Volume	m ³ /h	21,150	24,100	34,400	36,300	42,300	48,200	47,400	48,800	68,800	72,600	94,800
FAN TYPE	No.	2	2	3	3	4	4	4	4	6	6	8	8
FANS	No.	Centrifugal EC	Centrifugal EC	Centrifugal EC	Centrifugal EC	Centrifugal EC	Centrifugal EC	Centrifugal EC	Centrifugal EC	Centrifugal EC	Centrifugal EC	Centrifugal EC	Centrifugal EC
POWER INPUT ^{*3}	kW	4.6	5.5	8.5	8.5	9.1	11.3	11.3	11.3	17.0	17.0	22.6	22.5
WATER CIRCUIT													
FLOW RATE	l/s	1.87	2.14	3.15	3.40	3.73	4.28	4.76	5.02	6.30	6.80	9.52	10.0
PRESSURE DROP ^{*4}	kPa	41.3	45.9	49.2	49.6	41.4	45.9	40.1	38.7	49.2	49.6	40.1	38.7
FILTERS	No.	6	8	12	16	12	16	12	16	24	32	24	32
FILTERS	No.	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%
EFFICIENCY CLASS ^{*5}	ePM10												
SOUND LEVEL													
PRESSURE LEVEL ^{*6}	dB(A)	60	63	63	64	61	64	65	64	64	65	66	66
POWER LEVEL ^{*6}	dB(A)	77	81	81	82	80	83	83	83	84	85	86	86
ELECTRICAL													
POWER SUPPLY	V/ph/Hz	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50
MAX RUNNING CURRENT	FLA A	11.0	11.0	16.5	16.5	22.0	22.0	22.0	22.0	33.0	33.0	44.0	44.0
DIMENSIONS AND WEIGHT													
FRAME SIZE		1B1	1H1	2B1	2H1	1B2	1H2	3B1	3H1	2B2	2H2	3B2	3H2
DIMENSIONS	Width mm	1,800	1,800	2,700	2,700	1,800	1,800	3,600	3,600	2,700	2,700	3,600	3,600
	Depth mm	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
	Height mm	1,750	2,000	1,750	2,000	3,500	4,000	1,750	2,000	3,500	4,000	3,500	4,000
NET WEIGHT	kg	720	800	950	1,000	1,440	1,600	1,333	1,433	1,900	2,000	2,666	2,866
CONNECTIONS													
WATER ^{*7}	Inlet / Outlet DN	50	50	65	65	50	50	65	80	65	65	65	80
	Inlet / Outlet Ø inches	2"	2"	2 1/2"	2 1/2"	2"	2"	2 1/2"	3"	2 1/2"	2 1/2"	2 1/2"	3"
CONDENSATE DRAIN ^{*8}	Ø mm	19	19	19	19	19	19	19	19	19	19	19	19

m-MRAC / m-MROW

R410A Multi Density Close Coupled Control System


Notes:

THE COOLING CAPACITY DOES NOT CONSIDER THE SUPPLY FAN MOTOR THERMAL LOAD.

*1 All data refers to the Rating Configuration with 2x m-MROW-Z G02 F/S 025 @35°C

Outdoor Temperature and 35°C/27%rh Indoor Temperature.

*2 SHR = Sensible cooling capacity / Total cooling capacity.

*3 Corresponding to the nominal ESP=20Pa.

*4 Sound pressure level on air return at 1m.

*5 Rubber pipe - refers to internal diameter.

*6 Minimum section. It's possible to connect indoor units with a sum of sizing from 25 to 75.

*7 When outdoor unit is below indoor unit.

These units contain <HFC R410A [GWP₁₀₀ 2088]> fluorinated greenhouse gas.

Mitsubishi Electric's **Multi Density** systems combine the efficiency, quality and simplicity of VRF with high performance close coupled air conditioning units. Multi Density is ideal for applications where high sensible cooling and close control of temperature in high density applications is required. This system consists of multiple indoor 'coolside' close coupled air conditioners connected to a City Multi VRF outdoor unit. The result is a full inverter multi-split system, designed according to the best quality standards and dedicated to the most reliable IT environments. The range is particularly suitable for high density racks and blade server cooling in data centres, as it is able to cope with the high density of the thermal load, putting the air conditioning unit directly within the rows of racks to cool the localised heat sources (hot spots).

Key Features & Benefits

- High Efficiency - full Mitsubishi Electric inverter technology
- Small footprint
- Pipe runs up to 165m
- Trusted VRF technology



CRAC UNITS (COMPUTER ROOM AIR CONDITIONING)		m-MRAC G02 009 / M-MROW G02 009	m-MRAC G02 015 / M-MROW G02 015	m-MRAC G02 025 / M-MROW G02 025
COOLING CAPACITY (kW) ^{**}	Total Sensible	10.6 9.6	16.6 15.7	28.6 27.4
SHR [†]		0.91	0.94	0.96
EC SUPPLY FAN (no.)		2	4	5
AIRFLOW (m ³ /h)		1,500	2,700	4,200
NOMINAL EXTERNAL STATIC PRESSURE (Pa)		20	20	20
MAX EXTERNAL STATIC PRESSURE (Pa)		60	60	60
POWER INPUT (kW) [‡]		0.18	0.34	0.85
REFRIGERANT		R410A	R410A	R410A
REFRIGERANT CIRCUITS (n°)		1	1	1
AIR FILTERS	NO. Extended filtering surface (m ²) Efficiency [ISO EN 16890] (COARSE)	2 0.35 40%	2 0.35 40%	2 0.35 40%
SOUND LEVEL [ISO 3744] (dB(A)) [§]	Pressure Level Power Level	63.5 79	64.5 80	70.5 86
POWER SUPPLY (V / Ph / Hz)		230 / 1 / 50	230 / 1 / 50	230 / 1 / 50
ABSORBED CURRENT (A)		0.8	1.5	4
STARTING CURRENT (A)		2.9	5.8	7.3
DIMENSIONS (mm)	Width Depth (MROW / MRAC) Height	300 1000 / 1200 2,085	300 1000 / 1200 2,085	300 1000 / 1200 2,085
NET WEIGHT (kg)	In-Row Enclosure	175 185	190 200	193 203
CONNECTIONS	Refrigerant pipes diameter - Gas (Ø Inch) Refrigerant pipes diameter - Liquid (Ø Inch) Condensate (Ømm) [¶] Power supply wiring cable (no. x mm ²)	3/4" 1/2" 16 3G1.5	7/8" 5/8" 16 3G1.5	1" 3/4" 16 3G1.5

OUTDOOR UNITS		m-MOCU G02 050	2 X m-MOCU G02 050
RATED COOLING CAPACITY	kW	50	50 x 2
SYSTEM EER ^{**}	kW/kW	2.96	3.24
SOUND PRESSURE LEVEL (dB(A))	Cooling	65	68
WEIGHT (kg)		304	304 x 2
DIMENSIONS (mm)	Width x Depth x Height	1650 x 740 x 1750	1650 x 740 x 1750 [x2]
POWER SUPPLY (V / Hz)		380-415v, 50Hz	380-415v, 50Hz
PHASE		3	3
OUTDOOR POWER INPUT (kW)	Cooling (nominal)	15.2	13.7
STARTING CURRENT (A)		27.8	27.8 x 2
MAX RUNNING CURRENT (A)	Cooling	37.6	37.6 x 2
FUSE RATING (BS88) - HRC (A)		40	40 x 2
MAINS CABLE	No. Cores	5G6	5G6
MAX PIPE LENGTH (m)		165	165
MAX HEIGHT DIFFERENCE (m)		50 (40")	50 (40")
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088)	11.8 / 24.6	11.8 / 24.6 x 2
GUARANTEED OPERATING RANGE (°C)	Max Temp Min Temp	45 -15	45 -15

IT Cooling Accessories / Optional Extras

DESCRIPTION	MODEL REF.
MSY-TP / MUY-TP Air outlet guide for MUY-TP35/50VF Standard wired remote controller Interface for M-NET, MA remote controller (PAR-41MAA), on/off input and run/fault output Interface for connection to Wi-Fi MELCloud service	MAC-881SG PAR-41MAA MAC-334IF-E MAC-587IF-E
s-MEXT DX s-MEXT-G00 F01 Support Frame H510 P043 s-MEXT-G00 F02 Support Frame H510 P043 s-MEXT-G00 F03 Support Frame H510 P043 s-MEXT-G00 F01 Plenum c/w 3 Grilles P013 s-MEXT-G00 F02 Plenum c/w 3 Grilles P013 s-MEXT-G00 F03 Plenum c/w 3 Grilles P013 s-MEXT-G00 Modbus serial card (RS485) s-MEXT-G00 BACnet TCP/IP card (RJ45)	
x-MEXT DX Modbus Serial card (RS485) BACNet TCP/IP Ethernet card (RJ45) Floor stand with rubber holders (350-500mm) Floor stand with rubber holders (500-750mm) Floor stand with rubber holders (750-1000mm) Electric heater Steam humidifier Air discharge plenum with 3 grilles Inlet damper with actuator Epoxy coated condenser coil(s)	
w-MEXT / w-NEXT Modbus Serial card (RS485) BACNet TCP/IP Ethernet card (RJ45) Floor stand with rubber holders (255-350mm) Floor stand with rubber holders (355-450mm) Floor stand with rubber holders (400-510mm) Electric heater Steam humidifier Air discharge plenum with 3 grilles Inlet damper with actuator	
m-MRAC / m-MROW Multi Density Tee & Adaptor	



Refrigeration

Energy Efficient Refrigeration Units





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Energy Efficient Refrigeration Units

Energy Efficient Refrigeration Units

Refrigeration is a necessary part of our modern way of life and is essential to the way we store and display food for convenience purchase.

At the same time, given today's concerns about global warming and environmental protection, energy conservation policies are becoming increasingly stringent. It is becoming progressively more important for cold chain retailers to shift towards greener natural refrigerants and energy efficient equipment.

With our technical expertise, long experience and innovative product range, we are able to offer customers the ability to reduce their carbon emissions and assist them in achieving the UK governments Net Zero targets.



Introducing the **ECOV Natural Refrigerant Condensing Units**

The Mitsubishi Electric ECOV Series is ideally suited for convenience stores, cold storage rooms and cold chain distribution centres, and delivers reliability and energy efficiency through its use of proven Mitsubishi Electric technology.

Utilising non-flammable CO₂ refrigerant with a low global-warming potential of 1, means that CO₂ emissions are significantly reduced when compared to conventional systems that use HFC refrigerants.

Energy Efficient Refrigeration Units

ECOV Series - Key Technologies

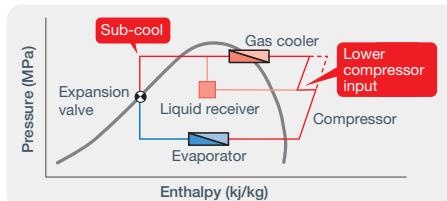
A. Compressor

Inverter-driven

The compressor is an inverter-driven single-stage scroll compressor developed by Mitsubishi Electric. The energy efficiency of the system is higher than that of a standard fixed speed, non-inverter system.

Refrigerant circuit

The ECOV Series adopts a single-stage compressor with a liquid receiver located in the middle pressure injection circuit. This enables the gas cooler to achieve greater sub-cooling with maximum efficiency.



B. Heat Exchanger (Rear side)

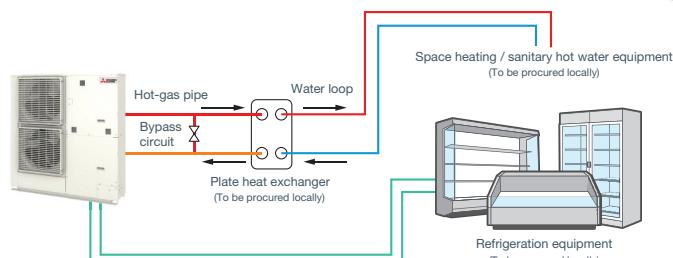
Flat aluminum tube

The use of a MFC* aluminum flat tube heat exchanger and corrugated fins increases the contact area with air and refrigerant, resulting in greater heat-exchanging efficiency. Anti-corrosion coating against salt damage is applied to the heat exchanger as a standard feature.



C. Heat Recovery Port

Heat recovered from the refrigeration equipment can be utilised to provide space heating and/or sanitary hot water elsewhere in the building.



D. Fan

DC Inverter fan

Two DC-driven inverter fans are equipped in each unit for precise control, to optimise system efficiency and minimise noise levels.



E. Control Board

IGBT Module

Power modules manufactured by Mitsubishi Electric are used on the ECOVs inverter board.



This greatly reduces the power loss of the voltage boosting circuit and improves the units efficiency levels.

Easy Servicing

F. LED Display

During operation, a digital LED display shows the refrigerant's low pressure value, operation mode, and compressor frequency.

In case of malfunction, an error code is displayed.

G. Pressure Gauges

Gauges displaying the low and high pressure values.

ECOV Series

R744 Natural Refrigerant Condensing Unit



Notes:

*1 Measurement conditions: Ambient temperature: 32°C, Evaporation temperature: -10°C, Compressor operating frequency: 61Hz for ECOV-X37VA / 95Hz for ECOV-X55VA, Fan control: Target condensation temperature = Ambient temperature: 5°C.

*2 Measurement conditions: Ambient temperature: 32°C, Evaporation temperature: -30°C, Compressor operating frequency: 61Hz for ECOV-X37VA / 95Hz for ECOV-X55VA, Fan control: Target condensation temperature = Ambient temperature: 5°C.

*3 If the liquid pipe length exceeds 30m, set the pipe diameter to 12.7mm (1/2").

*4 Measurement conditions of sound pressure levels: Ambient temperature: 32°C, Evaporation temperature: -10°C, Measurement location: 1m or 10m from front of unit (refer to spec table row) / height 1m, Compressor operating frequency: 66Hz for ECOV-X37VA / 95Hz for ECOV-X55VA, Fan control: Target condensation temperature = Ambient temperature 5°C. Measurement conditions of sound pressure levels in brackets are altered as follows: Compressor operating frequency: 61Hz for ECOV-X37VA / 95Hz for ECOV-X55VA, Fan control: Target condensation temperature = Ambient temperature 10°C.

*5 A pressure relief device, a sight glass and a dryer must be installed on the liquid pipe. Please procure these parts locally.

*6 MODBUS® is a registered trademark of SCHNEIDER ELECTRIC USA, INC. in the United States.
*7 Power condenser cannot be installed.

The **ECOV Series** refrigeration condensing units are inverter-driven and deliver reliability and energy efficient heat recovery through their use of proven Mitsubishi Electric technology.

Utilising the natural and stable refrigerant CO₂ (R744) with a GWP of 1, the environmentally clean solution enables compliance with local planning laws and F Gas Regulations. Designed with a compact footprint, these units can be easily installed in smaller plant areas and are capable of delivering chilling or freezing. With refrigeration duties ranging from 4.89kW to 17.5kW at an ambient temperature of 35°C, the ECOV Series is an ideal choice for small retail shops, convenience stores and cold storage rooms, including distribution centres.

Key Features & Benefits

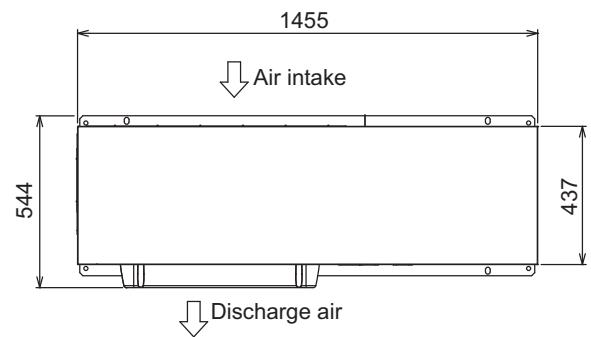
- Utilises natural CO₂ refrigerant to help meet key CSR targets
- Wide evaporating temperature range between -35°C and -5°C, meaning units can be used for chilling or freezing
- Modbus compatibility allows the units to easily communicate with various monitoring systems
- Heat recovery port enables rejected heat to be used for sanitary hot water demand in other areas of the building
- DC driven fans ensure the units deliver a low noise level (35.5dBA at 10m / 54.5dBA at 1m), allowing installation in noise sensitive urban environments

- Anti-corrosion coating applied as standard to the heat exchanger, protecting against salt damage in harsher coastal environments
- Equipped with an inverter driven compressor, multi-flow compressor and DC inverter fan to improve energy saving performance and deliver an SEPR (Seasonal Efficiency Performance Ratio) of 2.6
- Small footprint of 0.74m² and horizontal air flow structure, facilitating installation in small spaces and urban environments

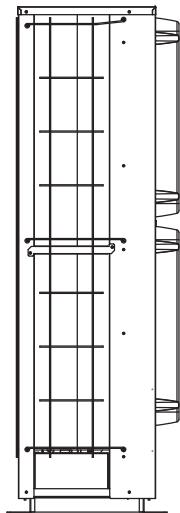


MODEL		ECOV-X37VA	ECOV-X55VA
REFRIGERATING CAPACITY	ET = -10°C ¹ ET = -30°C ²	kW kW	10.0 5.07 -35~ -5 R744
SUCTION PRESSURE SATURATION TEMPERATURE RANGE		°C	-35~ -5 -35~ -5 R744
REFRIGERANT TYPE			
OPERATING CONDITIONS		°C	Ambient temperature -25~43 3-phase 4-wire 380-400-415v, 50Hz
POWER SOURCE			Ambient temperature -25~43 3-phase 4-wire 380-400-415v, 50Hz
ELECTRICAL CHARACTERISTICS	Power consumption ¹ Operating current Power factor ⁷ Starting current	kW A % A	6.25 10.8-10.3-9.9 87.6 8.0 35~66 2.53 17.3-16.5-15.9 87.6 8.0 35~95 2.60
OPERATING FREQUENCY		Hz	
SEPR (Seasonal Efficiency Performance Ratio)			
COMPRESSOR	Model Displacement volume Crank case heater		HXK17FA-Y (Scroll) 4.1 45
CONDENSER	Heat exchanger type Fan Motor output Fan diameter		Salt-resistant corrugated fin & aluminum micro channel 74 x 2 φ550 x 2 74 x 2 φ550 x 2
	Air flow rate	m ³ /min	154.8 154.8
Liquid Receiver	Saturation pressure adjustment device		Electronic fan controller
CAPACITY CONTROL	Capacity		11
STARTUP METHOD		Inverter type	Inverter type
HIGH-PRESSURE-CUT PREVENTION FUNCTION		Inverter startup	Inverter startup
PROTECTION DEVICE	Pressure switch <high pressure/low pressure> Overcurrent protection Thermal switch (discharge pipe) Oil temperature detection protection	High pressure: Standard (Mechanical) Low pressure: Standard (Digital) Standard Standard (Mechanical)	High pressure: Standard (Mechanical) Low pressure: Standard (Digital) Standard Standard (Mechanical)
BUILT-IN DEVICE ⁵	Pressure gauge Suction accumulator Oil Separator	Standard Standard Standard	Standard <Discharge, Liquid> Standard Standard <Discharge, Liquid>
COMMUNICATION ⁶		MODBUS®	MODBUS®
DIMENSIONS (Width x Depth x Height)		mm kg	1455 x 506(+38) x 1600 290
WEIGHT		mm (in)	15.88 (5/8")
PIPE SIZE	Gas Liquid ³	mm (in)	9.52 (3/8") 9.52 (3/8")
MAX PIPE LENGTH		m	50 50
SOUND PRESSURE LEVEL @1m ⁴		dB(A)	54.5 (51) 57 (54)
SOUND PRESSURE LEVEL @10m ⁴		dB(A)	34.5 37

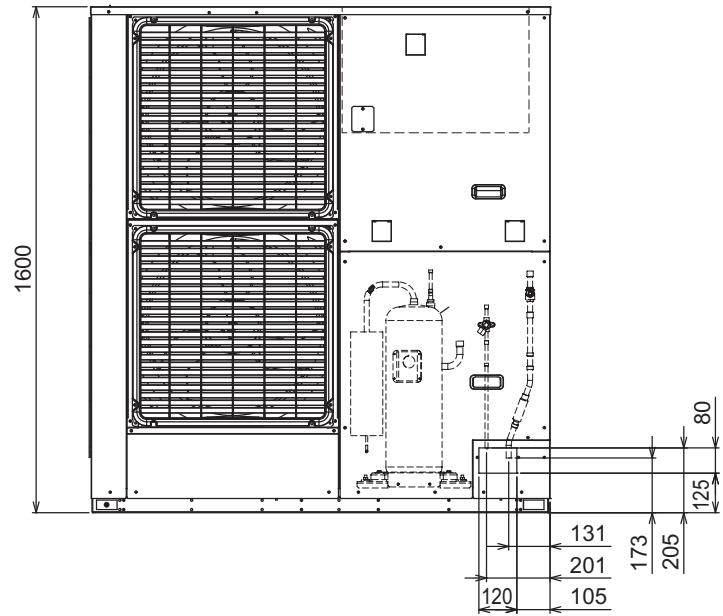
Upper View



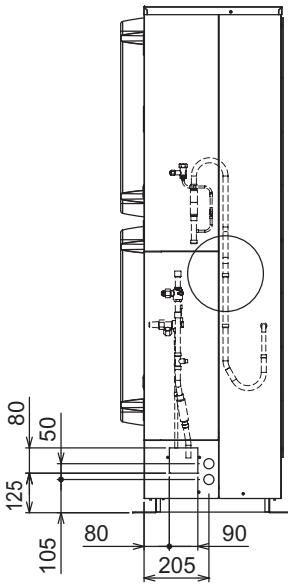
Left Side View



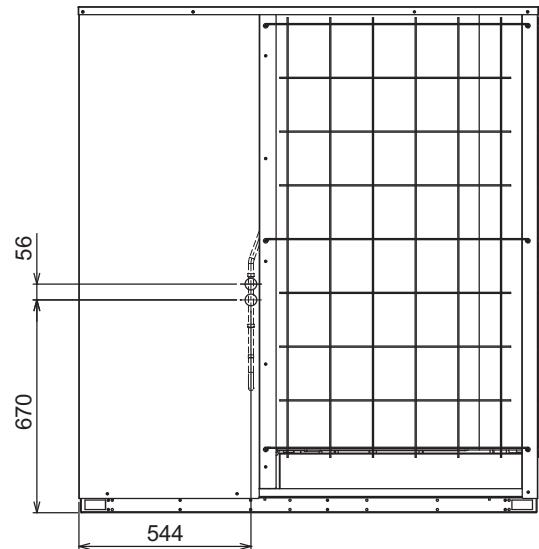
Front View



Right Side View



Rear View



Refrigeration Accessories / Optional Extras

DESCRIPTION	MODEL REF.
ECOV Series Air protection guide for ECOV-X37VA & ECOV-X55VA (2 required per ECOV unit)	AG-X37A



Residential Heating

Ecodan Residential Renewable Heating Systems



ecodan[®]
Renewable Heating Technology



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Ecoden 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 Ecoden - one of the most advanced, efficient heating systems available on the market today.

The award winning Ecoden heat pumps are available from 4kW up to 960kW, 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.

- Renewable heating solution capable of reducing emissions and achieving climate targets
- Highly efficient, proven and refined technology that can lower energy bills
- Range of easy to design, install and maintain systems suitable for a variety of property and application types

Ecoden heat pumps are a renewable heating technology that efficiently and reliably generates sustainable space heating and hot water all year round, delivering a level of comfort that sets the technology apart from other forms of heating.



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 Ecoden, 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. **”**

George Clarke

Ecoden Brand Ambassador



Renewable Heating Systems



Range Overview

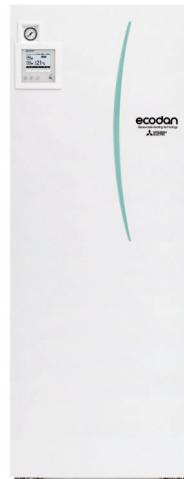
System Type		Litres	4kW	5kW	6kW	8.5kW	11.2kW	14kW	40kW	40kW	60kW
Standalone				●	●	●	●	●	●	●	●
Thermal Store		EHPT20Q-VM2EA	200	●							
Packaged Cylinder		EHPT20X-MHEDW	200	●	●	●	●	●			
Pre-Plumbed Slimline Cylinder		EHPT15X-UKHLDW1S	150	●	●	●					
		EHPT17X-UKHLDW1S	170	●	●	●					
Pre-Plumbed Standard Cylinder		EHPT15X-UKHDW1S	150	●	●	●					
		EHPT17X-UKHDW1S	170	●	●	●					
		EHPT21X-UKHDW1S	210	●	●	●					
		EHPT21X-UKHDW1L	210		●	●	●	●	●	●	
		EHPT25X-UKHDW1L	250		●	●	●	●	●	●	
		EHPT30X-UKHDW1L	300		●	●	●	●	●	●	
Versatile Slimline Cylinder		EHPT18X-UKHLDWB	180	●	●	●	●	●	●		
		EHPT21X-UKHLDWB	210	●	●	●	●	●	●		
Versatile Standard Cylinder		EHPT21X-UKHDWB	210	●	●	●	●	●	●	●	
		EHPT25X-UKHDWB	250		●	●	●	●	●	●	
		EHPT30X-UKHDWB	300		●	●	●	●	●	●	
Approvals	 	Manufactured in the United Kingdom		●	●	●	●				
		Red Dot Award			●	●	●				
		Microgeneration Certification Scheme	●								●
		Keymark		●	●	●	●	●	●		

Notes: For further information on the Ecoden QAHV, CAHV and CRHV models, please refer to the 'Commercial Heat Pumps & Chillers' section of this catalogue.



QUHZ-W40VA

Monobloc Air Source Heat Pump with Thermal Store



MCS

CERTIFIED

Certificate Number: MCS HP0002
Product Type: Heat Pumps
Product Reference: QUHZ-W40VA

The Ecodan QUHZ system combines a 4kW outdoor unit with a 200 litre Thermal Store, and is the ideal plug and play heating and hot water solution for properties with a low space heating requirement.

With very low, market leading noise levels for its class and highly efficient hot water generation due to its unique CO₂ (R744) system design, this compact space saving product is capable of providing instantaneous hot water and removes the risk of legionella.

Key Features

- Self contained system, only requires water connections and can be powered via the Thermal Store
- No need for gas supply, flues or ventilation
- Low maintenance and very quiet operation
- Operates with outside temperatures as low as -15°C
- Optimised low ambient defrost control and operation
- Capable of being used in domestic hot water generation mode only
- Energy monitoring as standard



OUTDOOR UNIT	QUHZ-W40VA	THERMAL STORE	EHPT20Q-VM2EA
HEAT PUMP COMBINATION HEATER - 55°C	ErP Rating η_s SCOP	A+ 117% 2.90	
HEAT PUMP COMBINATION HEATER - Large Profile ¹	ErP Rating η_{wh}	A 129%	
HEATING ² (A-3/W55)	COP Capacity (kW) Power Input (kW) COP	3.00 4.32 2.18 1.98	
OPERATING AMBIENT TEMPERATURE (°C DB)		-15 ~ +35	
SOUND PRESSURE LEVEL AT 1M (dBA) ³		43	
SOUND POWER LEVEL (dBA) ⁴		53	
WATER DATA	Pipework Size (mm) Flow Rate (l/min)	15 3 to 8	
DISTANCE BETWEEN OUTDOOR UNIT AND THERMAL STORE (m)	Height Difference Piping Length	5 15	
DIMENSIONS (mm)	Width Depth Height	809+70 ⁵ 300+20 ⁵ 715	
WEIGHT (kg)		57	
ELECTRICAL DATA		Powered from indoor unit	
REFRIGERANT CHARGE (kg) / CO ₂ EQUIVALENT (t)	R744 (GWP 1)	1.15 / 0.0015	OPTIONAL SIMPLIFIED WIRELESS ROOM THERMOSTAT AND WIRELESS RECEIVER
			PAR-WT60R-E Controller and PAR-WR61-E Receiver

¹ Combination with EHPT20Q-VM2EA Thermal Store.

² Under normal heating conditions at outdoor temp: -3°CDB / -4°CWB, outlet water temp 55°C, inlet water temp 47°C.

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

⁴ Sound power level tested to BS EN12102.

⁵ Grille or pipe cover.

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

η_s is the seasonal space heating energy efficiency (SSHEE)

η_{wh} is the water heating energy efficiency



PUZ-WM50VHA

Monobloc Standalone Air Source Heat Pump



Certificate Number: 037-0032-20
Product Type: Heat Pumps
Product Reference: PUZ-WM50VHA(-BS)

Our range of Ecodan monobloc air source heat pumps includes a 5kW size.

With enhanced performance and efficiencies of the new chassis, combined with the ability to cascade up to six units of the same output, this Ecodan monobloc system can provide a capacity range from 5 through to 30kW. Designed to suit a wide number of applications, this model offers a viable solution for all types of domestic requirements that the UK housing market demands.

Key Features

- Self-contained unit, only requiring water and electric connections
- No need for gas supply, flues or ventilation
- Low maintenance and quiet operation
- Operates with outside temperatures as low as -20°C
- Optimised low ambient defrost control and operation down to -7°C
- Hybrid function, for use with conventional boilers
- Energy monitoring as standard
- Multiple unit cascade function



Manufactured in the UK

OUTDOOR UNIT		PUZ-WM50VHA(-BS)
HEAT PUMP SPACE HEATER - 55°C	ErP Rating η_s SCOP	A++ 129% 3.33
HEAT PUMP SPACE HEATER - 35°C	ErP Rating η_s SCOP	A+++ 183% 4.58
HEAT PUMP COMBINATION HEATER - Large Profile ¹	ErP Rating η_{wh}	A+ 135%
HEATING ² (A-7/W35)	Capacity (kW) Power Input (kW) COP	5.0 1.67 3.00
OPERATING AMBIENT TEMPERATURE (°C DB)		-20 ~ +35
SOUND DATA ³	Pressure Level at 1m (dBA) Power Level (dBA) ⁴	47 61
WATER DATA	Pipework Size (mm) Flow Rate (l/min) Water Pressure Drop (kPa)	22 14 12.0
DIMENSIONS (mm)	Width Depth Height	950 330+30 ⁷ 923 71
WEIGHT (kg)		
ELECTRICAL DATA	Electrical Supply Phase Nominal Running Current [MAX] (A) ⁵ Fuse Rating - MCB Sizes (A) ⁶	220-240v, 50Hz Single 4.64 [13] 16
REFRIGERANT CHARGE (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675)	2.0 / 1.35

¹ Combination with E-PT20X Cylinder

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

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

⁴ Sound power level tested to BS EN12102.

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

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

⁷ Grille.

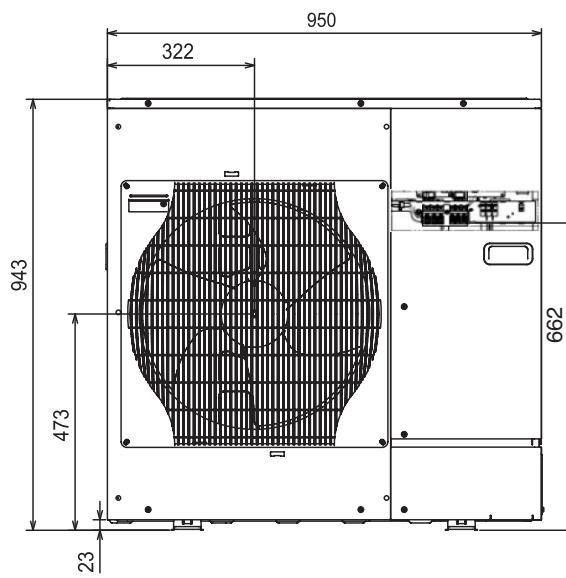
η_s is the seasonal space heating energy efficiency (SSHEE) η_{wh} is the water heating energy efficiency

Product Dimensions

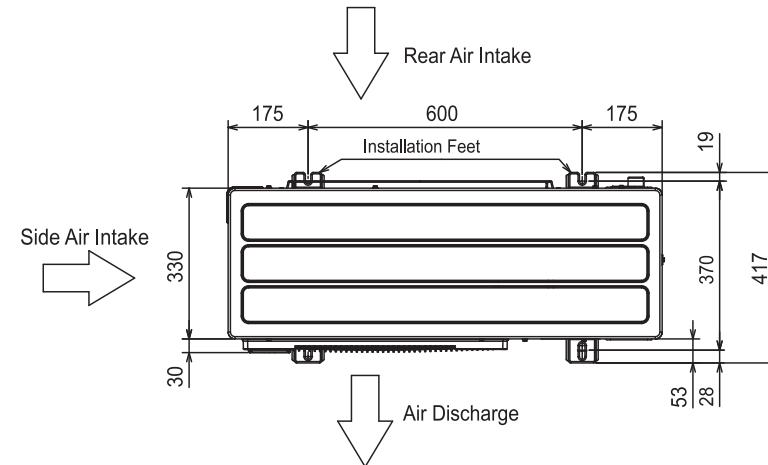
PUZ-WM50VHA-(BS)

All measurement in mm

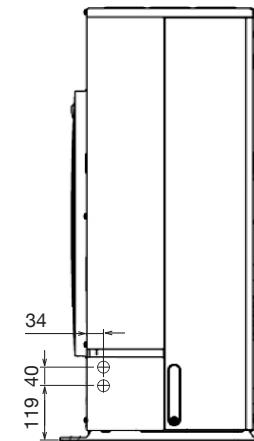
Front View



Upper View



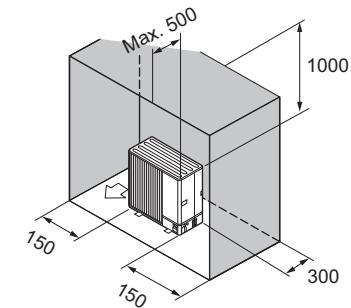
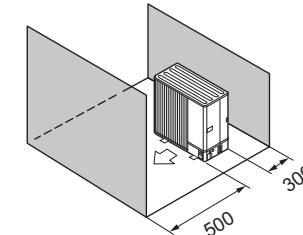
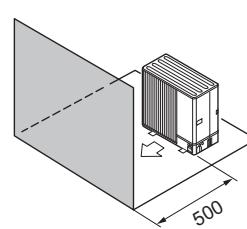
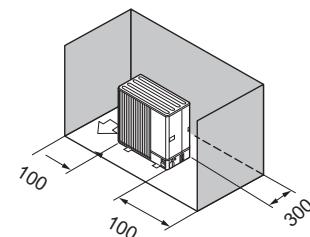
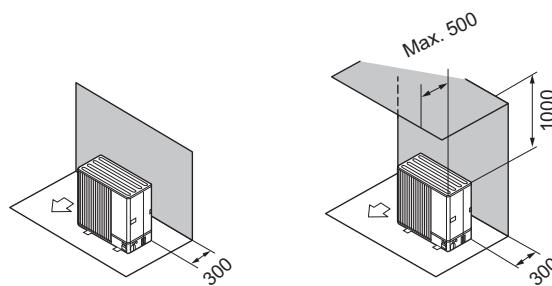
Side View



Installation Location

PUZ-WM50VHA-(BS)

All measurement in mm



Please refer to Databook and Installation Manual for further details.



PUZ-WM60-112VAA/YAA

Monobloc Standalone Ultra Quiet Air Source Heat Pumps



Certificate Number: 037-0033-20 / 037-0034-20

Product Type: Heat Pump

Product Reference: PUZ-WM60/85VAA(-BS) / PUZ-WM112VAA(-BS)

The multiple award winning range of Ultra Quiet AA chassis Ecodan monobloc air source heat pumps are designed specifically to suit the demands of the UK market and includes 6.0, 8.5 and 11.2kW sizes.

The innovative, stylish and compact single fan outdoor unit utilises advanced technologies to deliver improved efficiencies. Designed for a wide range of applications, the market leading low noise levels virtually eliminate the need for planning permission, maximises installation options and is a viable solution for all types of domestic requirements that the UK housing market demands.

Key Features

- Self-contained unit, only requiring water and electric connections
- No need for gas supply, flues or ventilation
- Low maintenance and ultra quiet operation
- Operates with outside temperatures as low as -25°C
- Optimised low ambient defrost control and operation down to -7°C
- Hybrid function, for use with conventional boilers
- Energy monitoring as standard
- Multiple unit cascade function



OUTDOOR UNIT		PUZ-WM60VAA(-BS)	PUZ-WM85VAA(-BS)	PUZ-WM85YAA(-BS)	PUZ-WM112VAA(-BS)	PUZ-WM112YAA(-BS)
HEAT PUMP SPACE HEATER - 55°C	ErP Rating	A++	A++	A++	A++	A++
	η_s	142%	139%	139%	134%	134%
	SCOP	3.30	3.50	3.47	3.45	3.434
HEAT PUMP SPACE HEATER - 35°C	ErP Rating	A+++	A+++	A+++	A+++	A+++
	η_s	190%	193%	193%	191%	191%
	SCOP	4.62	4.57	4.79	4.58	4.78
HEAT PUMP COMBINATION HEATER - Large Profile ¹	ErP Rating	A+	A+	A+	A+	A+
	η_{wh}	145%	145%	145%	148%	148%
	Capacity (kW)	6.0	8.5	8.5	11.2	11.2
HEATING ² (A-7/W35)	Power Input (kW)	1.88	3.27	3.27	3.73	3.73
	COP	3.20	2.60	2.60	3.00	3.00
	OPERATING AMBIENT TEMPERATURE (°C DB)	-20 ~ +35	-20 ~ +35	-25 ~ +35	-25 ~ +35	-25 ~ +35
SOUND DATA ³	Pressure Level at 1m (dBA)	45	45	45	45	45
	Power Level (dBA) ⁴	58	58	58	60	60
WATER DATA	Pipework Size (mm)	22	28	28	28	28
	Flow Rate (l/min)	17	24	24	32	32
	Water Pressure Drop (kPa)	8.0	15.0	15.0	24.0	24.0
DIMENSIONS (mm)	Width	1050	1050	1050	1050	1050
	Depth	480	480	480	480	480
	Height	1020	1020	1020	1020	1020
WEIGHT (kg)		98	98	111	119	119
ELECTRICAL DATA	Electrical Supply	220-240v, 50Hz	220-240v, 50Hz	400v, 50Hz	220-240v, 50Hz	400v, 50Hz
	Phase	Single	Single	Three	Single	Three
	Nominal Running Current [MAX] (A) ⁵	5.68 [13]	9.1 [22]	2.9 [11.5]	10.9 [28]	3.6 [13]
	Fuse Rating - MCB Sizes (A) ⁶	16	25	16	32	16
REFRIGERANT CHARGE (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675)	2.2 / 1.49	2.2 / 1.49	2.2 / 1.49	3.0 / 2.03	3.0 / 2.03

¹ Combination with EPT20X Cylinder

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

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

⁴ Sound power level tested to BS EN12102.

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

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

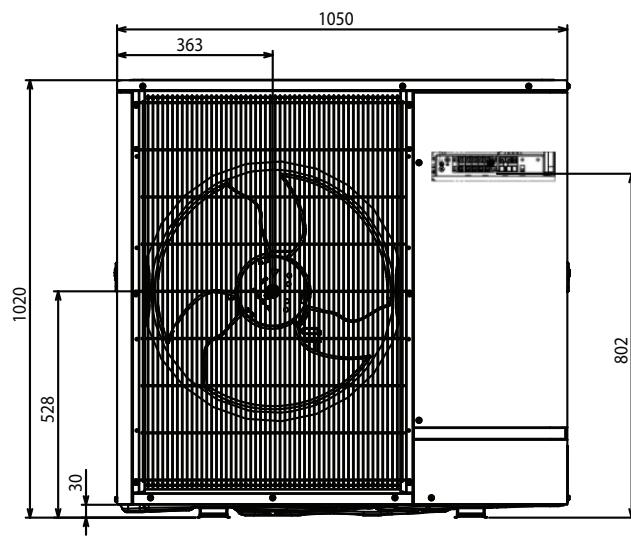
η_s is the seasonal space heating energy efficiency (SSHEE) η_{wh} is the water heating energy efficiency

Product Dimensions

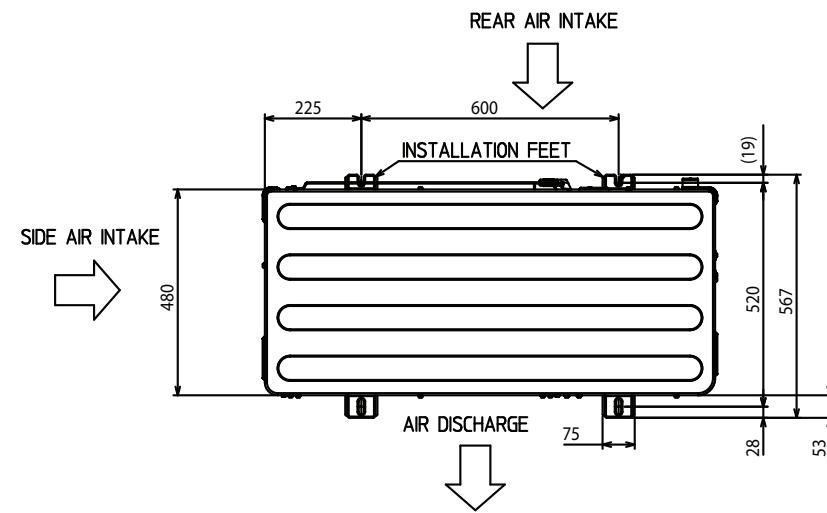
PUZ-WM60-112VAA/YAA(-BS)

All measurement in mm

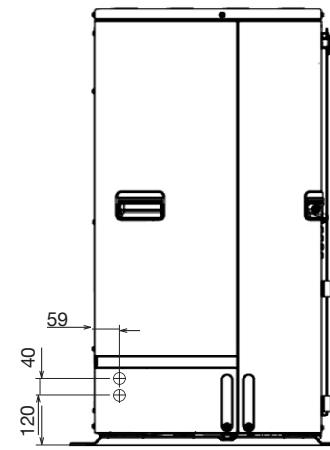
Front View



Upper View



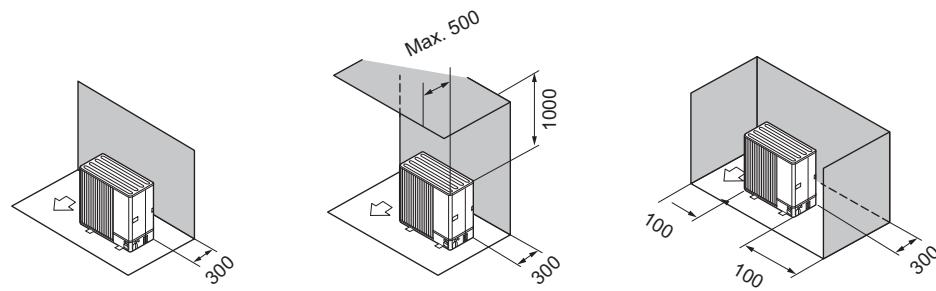
Side View



Installation Location

PUZ-WM60-112VAA/YAA(-BS)

All measurement in mm

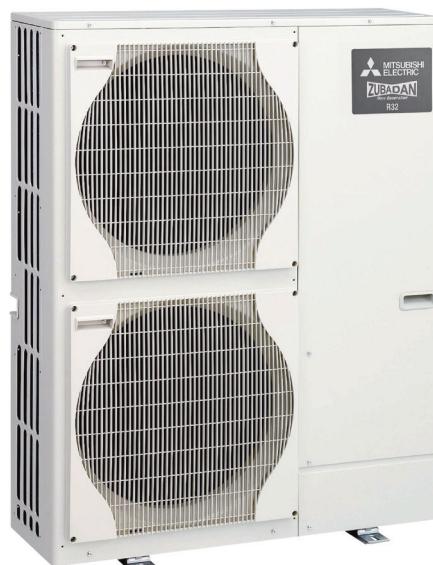


Please refer to Databook and Installation Manual for further details.



PUZ-HWM140VHA/YHA

Monobloc Standalone Air Source Heat Pumps



Certificate Number: 037-0035-20
Product Type: Heat Pumps
Product Reference: PUZ-HWM140VHA/YHA-(BS)

Our range of Zubadan chassis Ecodan monobloc air source heat pumps are suitable for properties with large space heating requirements and are available in single or three phase 14kW sizes.

With its advanced flash injection technology, this product provides a solution to low ambient capacity issues common to standard systems and is a viable solution for all types of domestic requirements that the UK housing market demands.

Key Features

- Self-contained unit, only requiring water and electric connections
- No need for gas supply, flues or ventilation
- Low maintenance and quiet operation
- Operates with outside temperatures as low as -28°C
- Optimised low ambient defrost control and operation down to -15°C
- Hybrid function, for use with conventional boilers
- Energy monitoring as standard
- Multiple unit cascade function



OUTDOOR UNIT	PUZ-HWM140VHA-(BS)	PUZ-HWM140YHA-(BS)
HEAT PUMP SPACE HEATER - 55°C	ErP Rating η_s SCOP	A++ 3.35 3.34
HEAT PUMP SPACE HEATER - 35°C	ErP Rating η_s SCOP	A+++ 176 4.48
HEAT PUMP COMBINATION HEATER - Large Profile ¹	ErP Rating η_{wh}	A+ 130
HEATING ² (A-7/W35)	Capacity (kW) Power Input (kW) COP	14.0 5.72 2.45
OPERATING AMBIENT TEMPERATURE (°C DB)		-28 ~ +35
SOUND DATA ³	Pressure Level at 1m (dBA) Power Level (dBA) ⁴	53 67
WATER DATA	Pipework Size (mm) Flow Rate (l/min) Water Pressure Drop (kPa)	28 40 20
DIMENSIONS (mm)	Width Depth Height	1020 330+30 ⁷ 1350
WEIGHT (kg)		132 1020 330+30 ⁷ 1350 143
ELECTRICAL DATA	Electrical Supply Phase Nominal Running Current [MAX] (A) ⁵ Fuse Rating - MCB Sizes (A) ⁶	220-240v, 50Hz Single xx [35] 40
REFRIGERANT CHARGE (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675)	3.3 / 2.23
		3.3 / 2.23

For information marked with a "-" please consult the databook or speak to your local sales office.

¹ Combination with E'PT20X Cylinder ² Under normal heating conditions at outdoor temp: -7°CDB / -8°CWB, outlet water temp 35°C, inlet water temp 30°C.

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

⁴ Sound power level tested to BS EN12102. ⁵ Under nominal heating conditions at outdoor temp: 7°C, outlet water temp: 35°C.

⁶ MCB Sizes BS EN60998-2 & BS EN60947-2. ⁷ Grille.

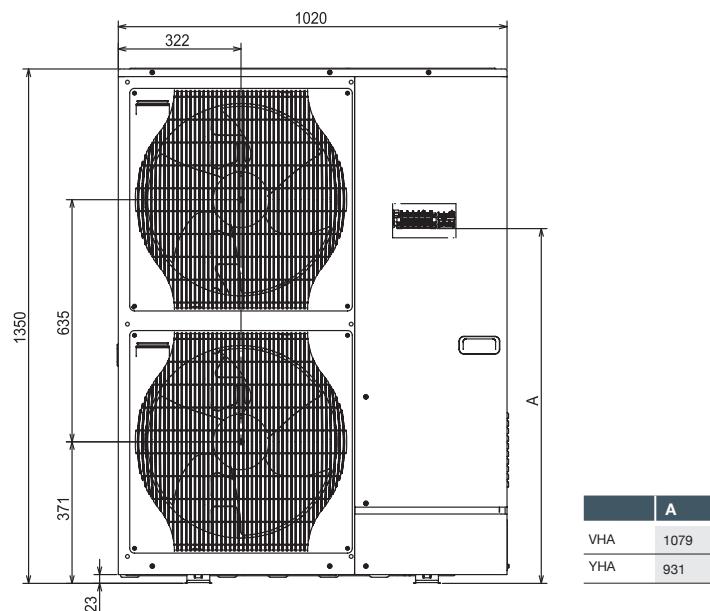
η_s is the seasonal space heating energy efficiency (SSHEE) η_{wh} is the water heating energy efficiency

Product Dimensions

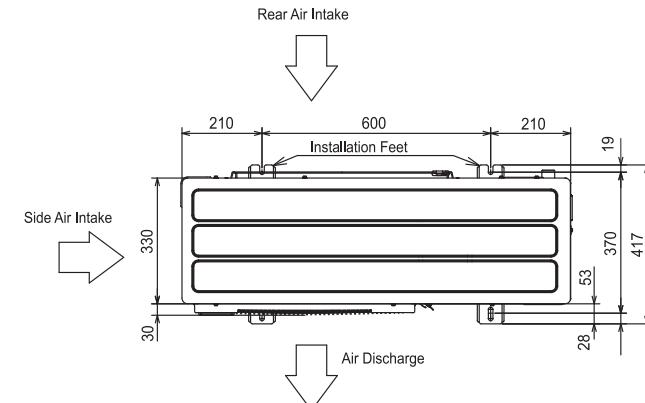
PUZ-HWM140VHA/YHA(-BS)

All measurement in mm

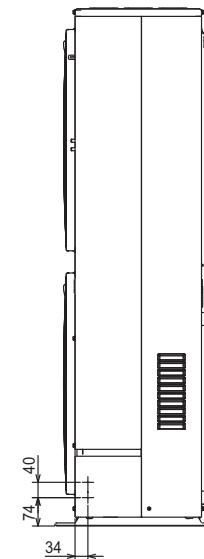
Front View



Upper View



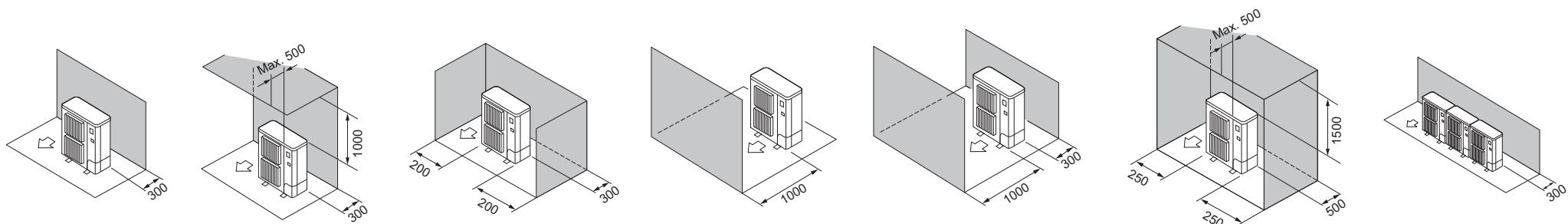
Side View



Installation Location

PUZ-HWM140VHA/YHA(-BS)

All measurement in mm



Please refer to Databook and Installation Manual for further details.



EHPT20X-MHEDW

Packaged Cylinder for Ecoden Monobloc Units



The Packaged Cylinder provides a highly adaptable heating solution for all property types.

Designed to optimise performance within a compact white goods footprint, the plug and play packaged cylinder fully integrates with the Ecoden monobloc air source heat pump range. Advanced plate heat exchanger technology delivers superior heat up times and our rapid SD card commissioning, MELCloud Wi-Fi connectivity and energy monitoring functions are also included as standard.

Key Features

- Optional 2-zone energy efficient space heating control
- Ready-plumbed and wired for faster installation
- Hybrid function, for use with conventional boilers
- Energy monitoring as standard
- MELCloud Wi-Fi connectivity

FTC6 Controller

Mitsubishi Electric's sixth generation controller (FTC6) includes intelligent room temperature control as standard. This together with advanced weather compensation ensures the system delivers efficient, comfortable heating regardless of the season. FTC6 now also includes energy monitoring showing consumed and produced energy.



Manufactured in the UK

CYLINDER		EHPT20X-MHEDW	
NOMINAL HOT WATER VOLUME (LITRES)		200	
HEAT PUMP COMBINATION HEATER - Large Profile (Average Climate)	ErP Rating	A+	
OPERATING AMBIENT TEMPERATURE (°C DB)		0 ~ +35°C (RH<80%)	
SOUND PRESSURE LEVEL AT 1M (dBA)		28	
WATER DATA			
	Flow Rate (l/min) - (H)WM 50 / 60 / 85 / 112 / 140	14 / 17 / 24 / 32 / 37	
	Primary Circuit Pump	Grundfos UPM3 15-75 130	
	Sanitary Hot Water Pump	Grundfos UPSO 15-60 130	
	Connection Size (mm) Heating / DHW	28 / 22	
WATER SAFETY DEVICES	Heating Water Circuit	Control Thermistor (°C)	1 - 80
	DHW Cylinder	Flow Sensor (minimum flow 5L/min)	Supplied
		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)			94 / 300
ELECTRICAL DATA	Control Board - optionally powered by outdoor unit	Electrical Supply	220-240v, 50Hz
		Phase	Single
	Immersion Heater	Fuse Rating - MCB Sizes (A) ¹	10
		Electrical Supply	220-240v, 50Hz
		Phase	Single
		Capacity (kW)	3
		Max Running Current (A)	13
		Fuse Rating - MCB Sizes (A) ¹	16
MECHANICAL ZONES			DHW and 1 Heating Zone ²
OPTIONAL SIMPLIFIED WIRELESS ROOM THERMOSTAT AND WIRELESS RECEIVER			PAR-WT60R-E Controller and PAR-WR61R-E Receiver

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

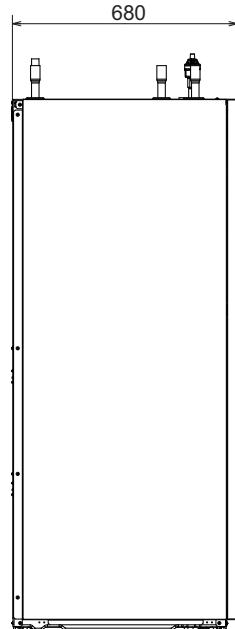
Notes: Cylinder includes: Flow Temperature Controller (FTC6) with Main Controller and Temperature Sensors, Pumps & Valves for Zone 1 and DHW use, Flow Sensor, Plate Heat Exchanger, Scale Trap and 3kW Immersion Heater.

Product Dimensions

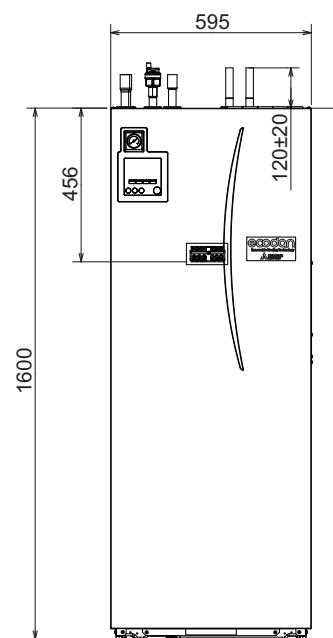
EHPT20X-MHEDW

All measurement in mm

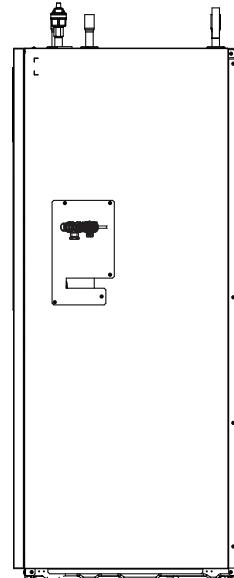
Left View



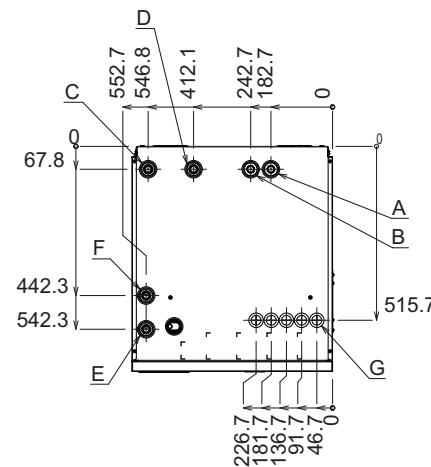
Front View



Right View



Upper View

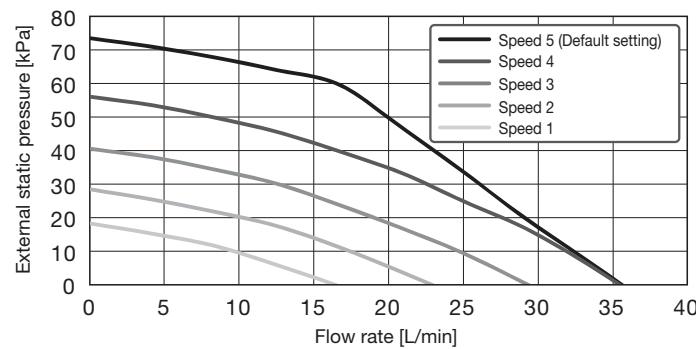


Letter	Pipe Description	Connection size/type
A	DHW outlet connection	22mm Compression
B	Cold water inlet connection	22mm Compression
C	Space heating return connection	28mm Compression
D	Space heating flow connection	28mm Compression
E	Flow from heat pump connection	28mm Compression
F	Return to heat pump connection	28mm Compression
G	Electrical cable inlets	

Circulation Pumps

EHPT20X-MHEDW

Heat Pump Circuit



Domestic Hot Water Sanitary Circuit

Default setting: Speed 2
DHW circulation pump **MUST** be set to speed 2.



EHPT15-17X-UKHLDW1S

Pre-Plumbed Slimline Cylinders for Ecodan Monobloc Units



The Pre-Plumbed Slimline Cylinder comes complete with integrated hydraulic components & advanced controls.

Designed to optimise performance and flexibility within a minimal footprint, the slimline cylinder fully integrates with the Ecodan monobloc air source heat pump range. Advanced plate heat exchanger technology delivers superior heat up times and our rapid SD card commissioning, MELCloud Wi-Fi connectivity and energy monitoring functions are also included as standard.

Key Features & Benefits

- Unvented plug & play pre-plumbed DHW cylinder
- Efficient & rapid heating
- Premium quality insulation
- Flexible 2-zone space heating control
- MELCloud enabled
- Minimal installation time
- Excellent hot water recovery times
- Reduced heat losses and running costs
- Improved comfort and reduced energy use
- Remote control, monitoring, maintenance and technical support

FTC6 Controller

Mitsubishi Electric's sixth generation controller (FTC6) includes intelligent room temperature control as standard. This together with advanced weather compensation ensures the system delivers efficient, comfortable heating regardless of the season. FTC6 now also includes energy monitoring showing consumed and produced energy.



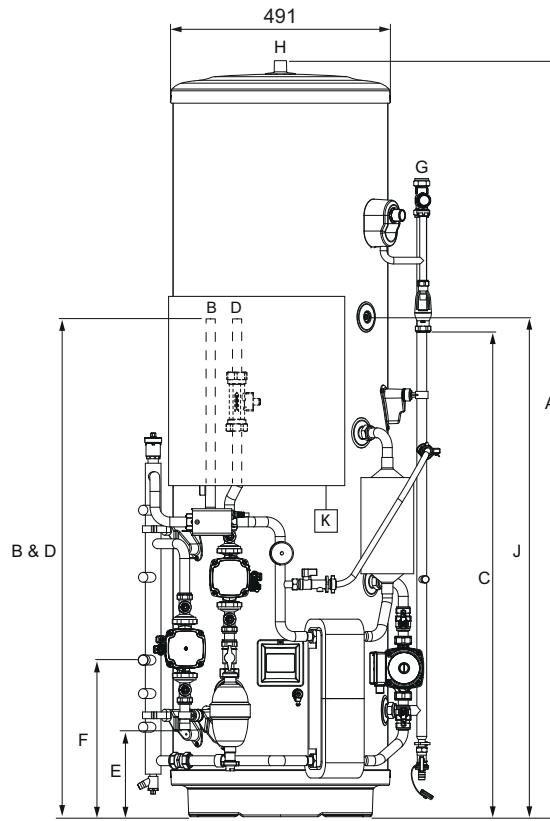
Manufactured in the UK

CYLINDER			EHPT15X-UKHLDW1S	EHPT17X-UKHLDW1S
NOMINAL HOT WATER VOLUME (LITRES)			150	170
ErP RATING			C	C
HEAT LOSS (kWh/24hrs)			1.40	1.59
HEAT LOSS (W)			58	66
WATER		Flow Rate (l/min) - WM 50 / 60 / 85 Primary Circuit Pump Heating Circuit Pump Sanitary Hot Water Pump Connection Size (mm) Heating / DHW Charge Pressure (MPa (Bar))	14 / 17 / 24 Grundfos UPM3L 25-75 130AZA Grundfos UPM3 AUTO 25-70 130 Grundfos UPSO 15-60 CIL2	22 / 22 0.35 (3.5) 80 80
WATER SAFETY	Water Circuit	DHW Cylinder Control Thermistor DHW Expansion Vessel (Litres) Control Thermistor Over Temperature Cut-Out (°C) Temp and Pressure Relief Valve (°C) / (MPa (Bar)) Expansion Relief Valve (Cold) (MPa (Bar))	12 75 80 ± 5 90 / 1.0 (10) 0.8 (8)	18 75 80 ± 5 90 / 1.0 (10) 0.8 (8)
DIMENSIONS (mm)		Width Depth Height	676 654 1516	676 654 1690
WEIGHT EMPTY / FULL (kg)			59 / 209	63 / 233
CYLINDER MATERIAL	Cylinder Insulation	Cylinder Material Insulation Type Insulation Thickness (mm) GWP of Insulation ODP of Insulation	Duplex stainless steel CFC / HCFC-free flame-retardant expanded Polyurethane 50 3.1 0	50 3.1 0
ELECTRICAL DATA	Control Board optionally powered by outdoor unit Immersion Heater	Electrical Supply Phase Fuse Rating - MCB Sizes (A) ¹ Electrical Supply Phase Capacity (kW) Max Running Current (A) Fuse Rating - MCB Sizes (A) ¹	220-240v, 50Hz Single 16 220-240v, 50Hz Single 3 13 16	220-240v, 50Hz Single 16 220-240v, 50Hz Single 3 13 16
MECHANICAL ZONES			DHW and 1 Heating Zone ²	
OPTIONAL SIMPLIFIED WIRELESS ROOM THERMOSTAT AND WIRELESS RECEIVER			PAR-WT60R-E Controller and PAR-WR61R-E Receiver	

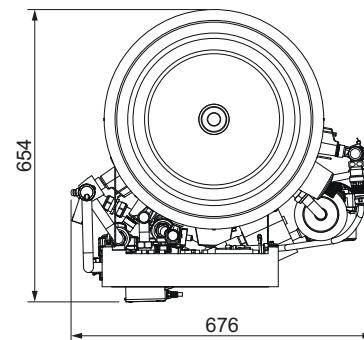
¹ 1 MCB Sizes BS EN60898-2 & BS EN60947-2. ² Optional 2 zone accessory pack available.

Notes: Cylinder includes: Flow Temperature Controller (FTC6) with Main Controller and Temperature Sensors, Magnetic Particle Filter, Pumps & Valves for Primary Circuit, Zone1 and DHW use, Flow Sensor, Plate Heat Exchanger, Scale Trap, 3kW Immersion Heater, Expansion Vessel, MELCloud Wi-Fi Interface, Diverter Valve and Low Loss Header.

Front View



Upper View



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

Capacity	150	170
A	1516	1690
B	1127	1127
C	909	1083
D	1127	1127
E	194	194
F	350	350
J	943	1117
K	Installer to locate and mount	



EHPT15-21X-UKHDW1S

Pre-Plumbed Standard Cylinders for Ecodan Monobloc Units



The Pre-Plumbed Standard Cylinder comes complete with integrated hydraulic components & advanced controls.

Designed to optimise performance and flexibility within an average footprint, the standard cylinder fully integrates with the Ecodan monobloc air source heat pump range. Advanced plate heat exchanger technology delivers superior heat up times and our rapid SD card commissioning, MELCloud Wi-Fi connectivity and energy monitoring functions are also included as standard.

Key Features & Benefits

- Unvented plug & play pre-plumbed DHW cylinder
- Efficient & rapid heating
- Premium quality insulation
- Flexible 2-zone space heating control
- MELCloud enabled
- Minimal installation time
- Excellent hot water recovery times
- Reduced heat losses and running costs
- Improved comfort and reduced energy use
- Remote control, monitoring, maintenance and technical support

FTC6 Controller

Mitsubishi Electric's sixth generation controller (FTC6) includes intelligent room temperature control as standard. This together with advanced weather compensation ensures the system delivers efficient, comfortable heating regardless of the season. FTC6 now also includes energy monitoring showing consumed and produced energy.



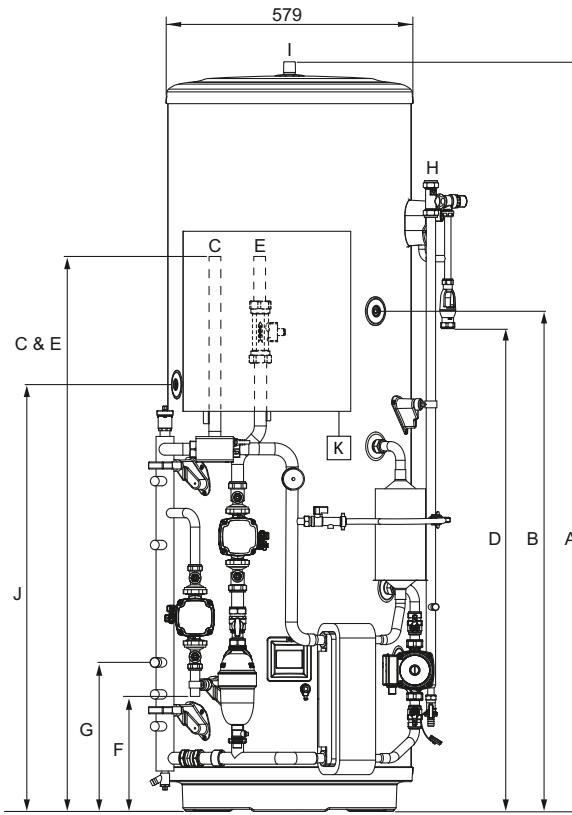
Manufactured in the UK

CYLINDER		EHPT15X-UKHDW1S	EHPT17X-UKHDW1S	EHPT21X-UKHDW1S
NOMINAL HOT WATER VOLUME (LITRES)		150	170	210
ErP RATING		B	B	C
HEAT LOSS (kWh/24hrs)		1.15	1.23	1.53
HEAT LOSS (W)		48	51	64
WATER	Flow Rate (l/min) - WM 50 / 60 / 85	14 / 17 / 24	14 / 17 / 24	14 / 17 / 24
	Primary Circuit Pump	Grundfos UPM3 AUTO 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
	Charge Pressure (MPa (Bar))	0.35 (3.5)	0.35 (3.5)	0.35 (3.5)
WATER SAFETY DEVICES	Control Thermistor (°C)	80	80	80
	DHW Cylinder	12	18	18
	Control Thermistor	75	75	75
	Over Temperature Cut-Out (°C)	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)
	Expansion Relief Valve (Cold) (MPa (Bar))	0.8 (8)	0.8 (8)	0.8 (8)
DIMENSIONS (mm)	Width	730	730	730
	Depth	756	756	756
	Height	1131	1257	1509
WEIGHT EMPTY / FULL (kg)		56 / 205	58 / 228	64 / 274
CYLINDER MATERIAL	Cylinder	Duplex stainless steel		
	Insulation	CFC / HCFC-free flame-retardant expanded Polyurethane		
	Insulation Thickness (mm)	60	60	60
	GWP of Insulation	3.1	3.1	3.1
	ODP of Insulation	0	0	0
ELECTRICAL DATA	Control Board <small>optionally powered by outdoor unit</small>	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
	Fuse Rating - MCB Sizes (A) ¹	Single	Single	Single
	Immersion Heater	16	16	16
	Electrical Supply	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
	Phase	Single	Single	Single
	Capacity (kW)	3	3	3
	Max Running Current (A)	13	13	13
	Fuse Rating - MCB Sizes (A) ¹	16	16	16
MECHANICAL ZONES		DHW and 1 Heating Zone ²		
OPTIONAL SIMPLIFIED WIRELESS ROOM THERMOSTAT AND WIRELESS RECEIVER		PAR-WT60R-E Controller and PAR-WR61R-E Receiver		

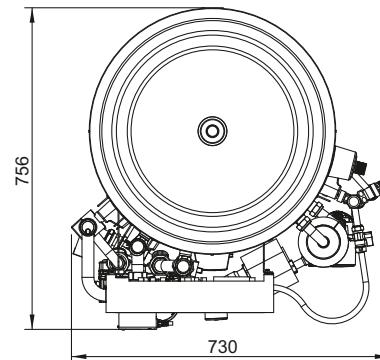
¹1 MCB Sizes BS EN60898-2 & BS EN60947-2. *2 Optional 2 zone accessory pack available.

Notes: Cylinder includes: Flow Temperature Controller (FTC6) with Main Controller and Temperature Sensors, Magnetic Particle Filter, Pumps & Valves for Primary Circuit, Zone 1 and DHW use, Flow Sensor, Plate Heat Exchanger, Scale Trap, 3kW Immersion Heater, Expansion Vessel, MELCloud Wi-Fi Interface, Diverter Valve and Low Loss Header.

Front View



Upper View



Letter	Pipe Description	Connection size/type
A	Overall height	
B	Secondary return tapping (Not fitted to EHPT15X-UKHDW1S/ EHPT17X-UKHDW1S)	22mm O/D Copper
C	Heat pump flow	22mm O/D Copper
D	Tundish outlet	22mm Compression
E	Heat pump return	22mm O/D Copper
F	Heating zone 1 circuit flow	22mm O/D Copper
G	Heating zone 1 circuit return	22mm O/D Copper
H	Cold water inlet	22mm Compression
I	Hot water outlet	22mm Compression / 3/4" BSP M
J	THW5A sensor pocket	
K	Wi-Fi adaptor (included. installer to locate and mount)	

Capacity	150	170	210
A	1131	1257	1509
B	Not Fitted	Not Fitted	1050
C	1122	1122	1122
D	505	630	880
E	1122	1122	1122
F	194	194	194
G	350	350	350
J	675	815	925
K	Installer to locate and mount		



EHPT21-30X-UKHDW1L

Pre-Plumbed Standard Cylinders for Ecodan Monobloc Units



The Pre-Plumbed Standard Cylinder comes complete with integrated hydraulic components & advanced controls.

Designed to optimise performance and flexibility within an average footprint, the standard cylinder fully integrates with the Ecodan monobloc air source heat pump range. Advanced plate heat exchanger technology delivers superior heat up times and our rapid SD card commissioning, MELCloud Wi-Fi connectivity and energy monitoring functions are also included as standard.

Key Features & Benefits

- Unvented plug & play pre-plumbed DHW cylinder
- Efficient & rapid heating
- Premium quality insulation
- Flexible 2-zone space heating control
- MELCloud enabled
- Minimal installation time
- Excellent hot water recovery times
- Reduced heat losses and running costs
- Improved comfort and reduced energy use
- Remote control, monitoring, maintenance and technical support

FTC6 Controller

Mitsubishi Electric's sixth generation controller (FTC6) includes intelligent room temperature control as standard. This together with advanced weather compensation ensures the system delivers efficient, comfortable heating regardless of the season. FTC6 now also includes energy monitoring showing consumed and produced energy.



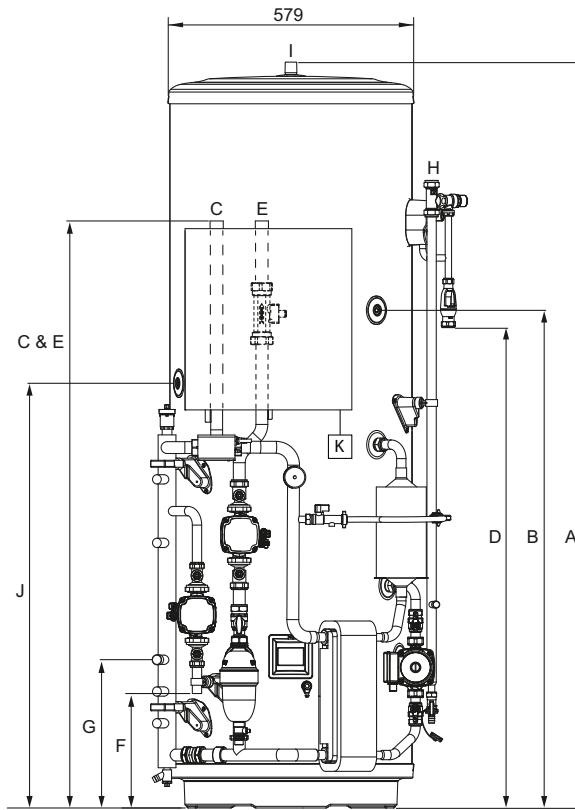
Manufactured in the UK

CYLINDER		EHPT21X-UKHDW1L	EHPT25X-UKHDW1L	EHPT30X-UKHDW1L	
NOMINAL HOT WATER VOLUME (LITRES)		210	250	300	
ErP RATING		C	C	C	
HEAT LOSS (kWh/24hrs)		1.53	1.80	2.09	
HEAT LOSS (W)		65	75	86	
WATER		Flow Rate (l/min) - (H)WM 60 / 85 / 112 / 140 Primary Circuit Pump Heating Circuit Pump Sanitary Hot Water Pump Connection Size (mm) Heating / DHW Charge Pressure (MPa (Bar))	17 / 24 / 32 / 40 Grundfos UPM3L 25-75 130AZA Grundfos UPM3 AUTO 25-70 130 Grundfos UPSO 15-60 CIL2 28 / 22 0.35 (3.5)	17 / 24 / 32 / 40 Grundfos UPM3L 25-75 130AZA Grundfos UPM3 AUTO 25-70 130 Grundfos UPSO 15-60 CIL2 28 / 22 0.35 (3.5)	
WATER SAFETY DEVICES	Water Circuit DHW Cylinder	Control Thermistor (°C) DHW Expansion Vessel (Litres) Control Thermistor Over Temperature Cut-Out (°C) Temp and Pressure Relief Valve (°C) / (MPa (Bar)) Expansion Relief Valve (Cold) (MPa (Bar))	80 18 75 80 ± 5 90 / 1.0 (10) 0.8 (8)	80 24 75 80 ± 5 90 / 1.0 (10) 0.8 (8)	80 24 75 80 ± 5 90 / 1.0 (10) 0.8 (8)
DIMENSIONS (mm)		Width Depth Height	748 755 1509	748 755 1761	748 755 2075
WEIGHT EMPTY / FULL (kg)			68 / 278	74 / 324	82 / 382
CYLINDER MATERIAL	Cylinder Insulation	Cylinder Material Insulation Type Insulation Thickness (mm) GWP of Insulation ODP of Insulation		Duplex stainless steel CFC / HCFC-free flame-retardant expanded Polyurethane 60 3.1 0	
ELECTRICAL DATA	Control Board optionally powered by outdoor unit Immersion Heater	Electrical Supply Phase Fuse Rating - MCB Sizes (A) ¹ Electrical Supply Phase Capacity (kW) Max Running Current (A) Fuse Rating - MCB Sizes (A) ¹	220-240v, 50Hz Single 16 220-240v, 50Hz Single 3 13 16	220-240v, 50Hz Single 16 220-240v, 50Hz Single 3 13 16	220-240v, 50Hz Single 16 220-240v, 50Hz Single 3 13 16
MECHANICAL ZONES				DHW and 1 Heating Zone ²	
OPTIONAL SIMPLIFIED WIRELESS ROOM THERMOSTAT AND WIRELESS RECEIVER				PAR-WT60R-E Controller and PAR-WR61R-E Receiver	

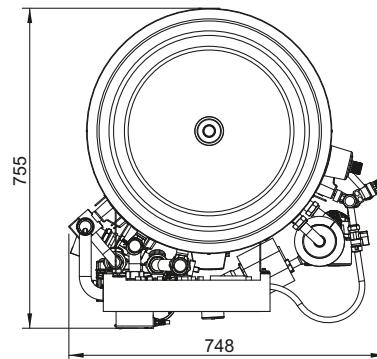
¹*1 MCB Sizes BS EN60898-2 & BS EN60947-2. *2 Optional 2 zone accessory pack available.

Notes: Cylinder includes: Flow Temperature Controller (FTC6) with Main Controller and Temperature Sensors, Magnetic Particle Filter, Pumps & Valves for Primary Circuit, Zone 1 and DHW use, Flow Sensor, Plate Heat Exchanger, Scale Trap, 3kW Immersion Heater, Expansion Vessel, MELCloud Wi-Fi Interface, Diverter Valve and Low Loss Header.

Front View



Upper View



Letter	Pipe Description	Connection size/type
A	Overall height	
B	Secondary return tapping	
C	Heat pump flow	28mm O/D Copper
D	Tundish outlet	22mm Compression
E	Heat pump return	28mm O/D Copper
F	Heating zone 1 circuit flow	22mm O/D Copper
G	Heating zone 1 circuit return	22mm O/D Copper
H	Cold water inlet	22mm Compression
I	Hot water outlet	22mm Compression / 3/4" BSP M
J	THW5A sensor pocket	
K	Wi-Fi adaptor (included. installer to locate and mount)	

Capacity	210	250	300
A	1509	1761	2075
B	1050	1175	1385
C	1370	1370	1370
D	880	1136	1450
E	1370	1370	1370
F	270	270	270
G	350	350	350
J	925	1005	1193
K	Installer to locate and mount		



EHPT18-21X-UKHLDWB

Versatile Slimline Cylinders for Ecodan Monobloc Units



The Versatile Slimline Cylinder comes ready to plumb into the system, containing all of the advanced controls you would expect.

It fully integrates with our Ecodan Monobloc air source heat pump range and is designed to meet the requirements of existing installations and new build applications. It has a minimal footprint and includes a coil heat exchanger, rapid SD card commissioning, MELCloud Wi-Fi connectivity and energy monitoring functions as standard.

Key Features & Benefits

- Unvented, versatile DHW cylinder
- High capacity coil heat exchanger
- Diverter valve accessory supplied
- Advanced Mitsubishi Electric controls installed
- MELCloud Enabled
- Versatile product placement
- Maximises heat transfer
- Simplified heating & hot water system installation
- Quality assurance, giving peace of mind
- Remote control, monitoring, maintenance and technical support

FTC6 Controller

Mitsubishi Electric's sixth generation controller (FTC6) includes intelligent room temperature control as standard. This together with advanced weather compensation ensures the system delivers efficient, comfortable heating regardless of the season. FTC6 now also includes energy monitoring showing consumed and produced energy.



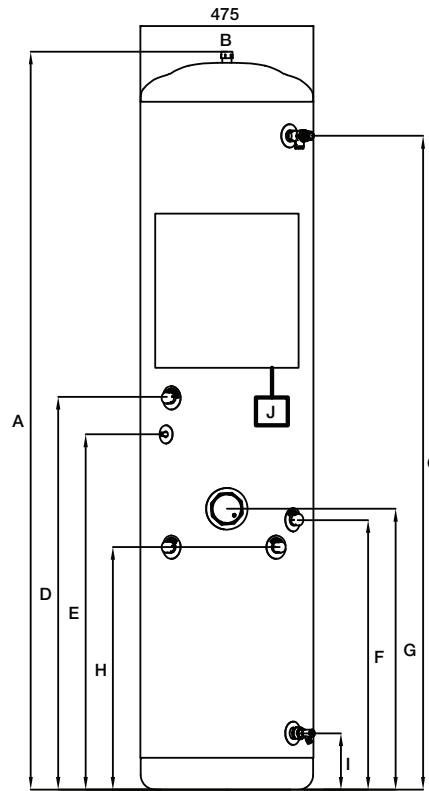
Manufactured in the UK

CYLINDER			EHPT18X-UKHLDWB	EHPT21X-UKHLDWB
NOMINAL HOT WATER VOLUME (LITRES)			180	210
ErP RATING			C	C
HEAT LOSS (kWh/24hrs)			1.72	2.08
HEAT LOSS (W)			72	87
WATER	Flow Rate (l/min) - (H)WM 50 / 60 / 85 / 112 / 140		14 / 17 / 24 / 32 / 40	14 / 17 / 24 / 32 / 40
	Primary Circuit Pump		Local supply	
	Heating Circuit Pump		Local supply	
	Sanitary Hot Water Pump		N/A	
	Connection Size (mm) Heating / DHW		22 / 22	22 / 22
	Charge Pressure (MPa (Bar))		0.30 (3.0)	0.30 (3.0)
WATER SAFETY	Water Circuit	Control Thermistor (°C)	80	80
	DHW Cylinder	DHW Expansion Vessel (Litres)	18	18
		Control Thermistor	75	75
		Over Temperature Cut-Out (°C)	85 ± 5	85 ± 5
		Temp and Pressure Relief Valve (°C) / (MPa (Bar))	90°C / 7 Bar	90°C / 7 Bar
		Expansion Relief Valve (Cold) (MPa (Bar))	6 Bar	6 Bar
DIMENSIONS (mm)	Width		475±0.2 ³	475±0.2 ³
	Depth		569.5	569.5
	Height		1712	2025
WEIGHT EMPTY / FULL (kg)			50 / 218	55 / 258
CYLINDER MATERIAL	Cylinder	Cylinder Material	Stainless Steel	
	Insulation	Insulation Type	CFC / HCFC-free Polyurethane	
		Insulation Thickness (mm)	50	50
		GWP of Insulation	1	1
		ODP of Insulation	0	0
ELECTRICAL DATA	Control Board <small>optionally powered by outdoor unit</small>	Electrical Supply	220-240v, 50Hz	220-240v, 50Hz
		Phase	Single	Single
		Fuse Rating - MCB Sizes (A) ¹	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) ¹	16	16
MECHANICAL ZONES	DHW and 1 Heating Zone ²			
OPTIONAL SIMPLIFIED WIRELESS ROOM THERMOSTAT AND WIRELESS RECEIVER	PAR-WT60R-E Controller and PAR-WR61R-E Receiver			

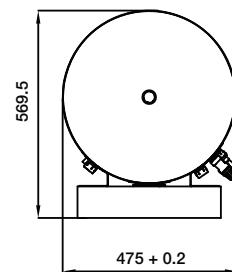
¹ MCB Sizes BS EN60898-2 & BS EN60947-2. ² Optional 2 zone accessory pack available. ³ Temperature and Pressure Relief Valve.

Notes: Cylinder includes: Flow Temperature Controller (FTC6) with Main Controller and Temperature Sensors, Diverter Valve, Coil Heat Exchanger, 3kW Immersion Heater, Expansion Vessel, MELCloud Wi-Fi Interface, Drain Valve, Tundish and Cold Water Combination Valve.

Front View



Upper View



Letter	Pipe Description	Connection size/type
A	Overall height	
B	Hot Water Outlet	22mm Compression (3/4" Male BSP)
C	Temperature & Pressure Relief Valve	
D	Secondary Return Tapping	22mm Compression (3/4" Male BSP)
E	THW5A Sensor Pocket	
F	Cold Water Inlet	22mm Compression (3/4" Male BSP)
G	Immersion heater	
H	Heat Pump Flow & Return Coil Connections	22mm Compression (3/4" Male BSP)
I	Drain Valve	22mm Compression (3/4" Male BSP)
J	Wi-Fi Adaptor (Installer to locate and mount)	

Capacity	180	210
A	1712	2025
C	1479	1795
D	N/A	1078
E	862	1020
F	726	726
G	756	769
H	668	668
I	158	158
J	Installer to locate and mount	



EHPT21-30X-UKHDWB

Versatile Standard Cylinders for Ecodan Monobloc Units



The Versatile Standard Cylinder comes ready to plumb into the system, containing all of the advanced controls you would expect.

It integrates with our Ecodan Monobloc air source heat pump range and is designed to meet the requirements of existing installations and new build applications. It has a standard footprint and includes a coil heat exchanger, rapid SD card commissioning, MELCloud Wi-Fi connectivity and energy monitoring functions as standard.

Key Features & Benefits

- Unvented, versatile DHW cylinder
- High capacity coil heat exchanger
- Diverter valve accessory supplied
- Advanced Mitsubishi Electric controls installed
- MELCloud Enabled
- Versatile product placement
- Maximises heat transfer
- Simplified heating & hot water system installation
- Quality assurance, giving peace of mind
- Remote control, monitoring, maintenance and technical support

FTC6 Controller

Mitsubishi Electric's sixth generation controller (FTC6) includes intelligent room temperature control as standard. This together with advanced weather compensation ensures the system delivers efficient, comfortable heating regardless of the season. FTC6 now also includes energy monitoring showing consumed and produced energy.



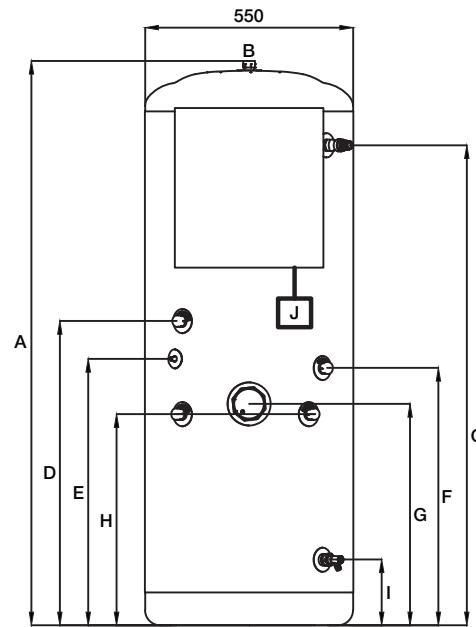
Manufactured in the UK

CYLINDER		EHPT21X-UKHDWB	EHPT25X-UKHDWB	EHPT30X-UKHDWB	
NOMINAL HOT WATER VOLUME (LITRES)		210	250	300	
ErP RATING		C	C	C	
HEAT LOSS (kWh/24hrs)		1.79	2.02	2.24	
HEAT LOSS (W)		75	84	93	
WATER	Flow Rate (l/min) - (H)WM 50 / 60 / 85 / 112 / 140	14 / 17 / 24 / 32 / 40	17 / 24 / 32 / 40	24 / 32 / 40	
	Primary Circuit Pump		Local supply		
	Heating Circuit Pump		Local supply		
	Sanitary Hot Water Pump		N/A		
	Connection Size (mm) Heating / DHW	22 / 22	22 / 22	22 / 22	
	Charge Pressure (MPa (Bar))	0.30 (3.0)	0.30 (3.0)	0.30 (3.0)	
WATER SAFETY DEVICES	Control Thermistor (°C) DHW Cylinder	80 18 Control Thermistor Over Temperature Cut-Out (°C) Temp and Pressure Relief Valve (°C / MPa (Bar)) Expansion Relief Valve (Cold) (MPa (Bar))	80 18 75 85 ± 5 90°C / 7 Bar 6 Bar	80 18 75 85 ± 5 90°C / 7 Bar 6 Bar	
DIMENSIONS (mm)	Width Depth Height	550 651 1495	550 651 1745	550 651 2058	
WEIGHT EMPTY / FULL (kg)		53 / 256	59 / 300	65 / 363	
CYLINDER MATERIAL	Cylinder Insulation	Cylinder Material Insulation Type		Stainless Steel CFC / HCFC-free Polyurethane	
		50	50	50	
	GWP of Insulation ODP of Insulation	1 0	1 0	1 0	
ELECTRICAL DATA	Control Board <i>optionally powered by outdoor unit</i> Immersion Heater	Electrical Supply Phase Fuse Rating - MCB Sizes (A) [†] Electrical Supply Phase Capacity (kW) Max Running Current (A) Fuse Rating - MCB Sizes (A) [†]	220-240v, 50Hz Single 16 220-240v, 50Hz Single 3 13 16	220-240v, 50Hz Single 16 220-240v, 50Hz Single 3 13 16	220-240v, 50Hz Single 16 220-240v, 50Hz Single 3 13 16
MECHANICAL ZONES				DHW and 1 Heating Zone [‡]	
OPTIONAL SIMPLIFIED WIRELESS ROOM THERMOSTAT AND WIRELESS RECEIVER				PAR-WT60R-E Controller and PAR-WR61R-E Receiver	

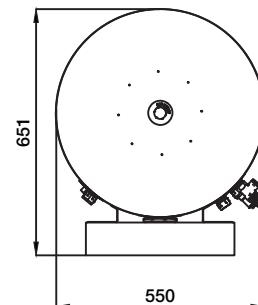
[†]1 MCB Sizes BS EN60898-2 & BS EN60947-2. *2 Optional 2 zone accessory pack available.

Notes: Cylinder includes: Flow Temperature Controller (FTC6) with Main Controller and Temperature Sensors, Diverter Valve, Coil Heat Exchanger, 3kW Immersion Heater, Expansion Vessel, MELCloud Wi-Fi Interface, Drain Valve, Tundish and Cold Water Combination Valve.

Front View



Upper View



Letter	Pipe Description	Connection size/type
A	Overall height	
B	Hot Water Outlet	22mm Compression (3/4" Male BSP)
C	Temperature & Pressure Relief Valve	
D	Secondary Return Tapping	22mm Compression (3/4" Male BSP)
E	THW5A Sensor Pocket	
F	Cold Water Inlet	22mm Compression (3/4" Male BSP)
G	Immersion heater	
H	Heat Pump Flow & Return Coil Connections	22mm Compression (3/4" Male BSP)
I	Drain Valve	22mm Compression (3/4" Male BSP)
J	Wi-Fi Adaptor (Installer to locate and mount)	

Capacity	210	250	300
A	1495	1745	2058
C	1273	1523	1836
D	819	944	1101
E	793	916	1072
F	681	681	681
G	584	654	654
H	554	554	554
I	174	174	174
J	Installer to locate and mount		



FTC6 / FTC2BR Flow Temperature Controllers

For use with Ecodan Monobloc Units and Third Party BEMS



The FTC6 Flow Temperature Controller is designed specifically by Mitsubishi Electric to integrate with the Ecodan PUZ monobloc air source heat pump range and a third party cylinder.

The FTC2BR has been developed to allow the Ecodan PUZ 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 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

- On/Off heating mode
- On/Off heating ECO mode
- On/Off hot water mode
- On/Off holiday mode
- On/Off legionella mode
- Change water flow temperature

Monitored

- Unit running
- Error
- Defrost

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



FLOW TEMPERATURE CONTROLLERS	FTC6 (PAC-IF072B-E)	FTC2BR (PAC-IF033B-E)
COMPATIBILITY	PUZ-WM50VHA(-BS) PUZ-WM60VAA(-BS) PUZ-WM85V(Y)AA(-BS) PUZ-WM112V(Y)AA(-BS) PUZ-HWM140V(Y)HA(-BS)	✓ ✓ ✓ ✓ ✓
BUILT-IN FEATURES	Initial Setting Wizard Commissioning Aide Smart Grid Ready PV Connection Energy Monitoring Dual Set-Point DHW Silent-Mode Cascade ¹ Hybrid	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
MELCloud ²		✓
BEMS INTERFACE		✓
DIMENSIONS (MM)	Width Depth Height	393 86.7 422
WEIGHT (kg)		4.1
OPERATING AMBIENT TEMPERATURE (°C) / HUMIDITY		0~ +35°C (RH<80%)
ELECTRICAL DATA	Electrical Supply Phase	Via Outdoor Unit or Independent Source (230v) Single
		0~ +35°C (RH<80%)
		Via Outdoor Unit or Independent Source (230v)
		Single

¹1 Requires Optional part(s) PAC-SIF051B-E. Please contact your regional sales office technical team. ²2 Requires Wi-Fi interface MAC-5671F-E.



Energy Monitoring Packs

All Ecodan Flow Temperature Control systems come with free energy monitoring as standard. System users are able to measure both consumed electrical energy and produced heat energy to the nearest kWh.

In addition to the basic system functionality features, i.e. hot water and heating status, the system's energy performance can also now be viewed. Historic energy consumption, heat production and run cost reports are available via the main controller, SD card or MELCloud.



PACK	4kW	5kW	6kW	8.5kW	11.2kW	14kW
EMP1	✓	✓	✓	✓	✓	✓
EMP2	✓	✓	✓	✓	✓	✓
EMP3-M-1PH		✓	✓	✓ *VAA	✓ *VAA	✓ *VHA
EMP3-Q-1PH	✓					
EMPH-M-1PH		✓	✓	✓	✓	✓

DESCRIPTION	ELECTRIC METER	HEAT METER	DATA STORAGE
Energy input & output estimation included as standard			
Electrical energy measurement consumption pack	2		
MMSP compliant electrical energy consumption and heat generation pack with cloud data storage	2	1	✓
MMSP compliant electrical energy consumption and heat generation pack with cloud data storage	2	1	✓
Electrical energy consumption and heat generation pack for hybrid systems	2	1	



MELCloud Wi-Fi Connectivity



Featuring the award-winning



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.

The set up and remote operation of your Ecodan heating system via MELCloud is simple and straight forward. All you need is a wireless connection where the Ecodan is located and an internet connection on your mobile or fixed device. To set up the system, the router and the Ecodan Wi-Fi interface need pairing and this is done simply and quickly via the WPS button found on all mainstream routers, or using access point pairing via a mobile phone.

Key Features

- Access to remote maintenance and technical support
- View and control your heating and hot water from anywhere in the world
- Reports on energy use, temperature history and more
- Live weather feed at location of Ecodan
- Share / restrict access and control of the Ecodan system
- Compatible with Amazon Alexa or Google Assistant-enabled devices
- Available for any FTC6 based system, new or retrofit using a MAC-587IF-E interface



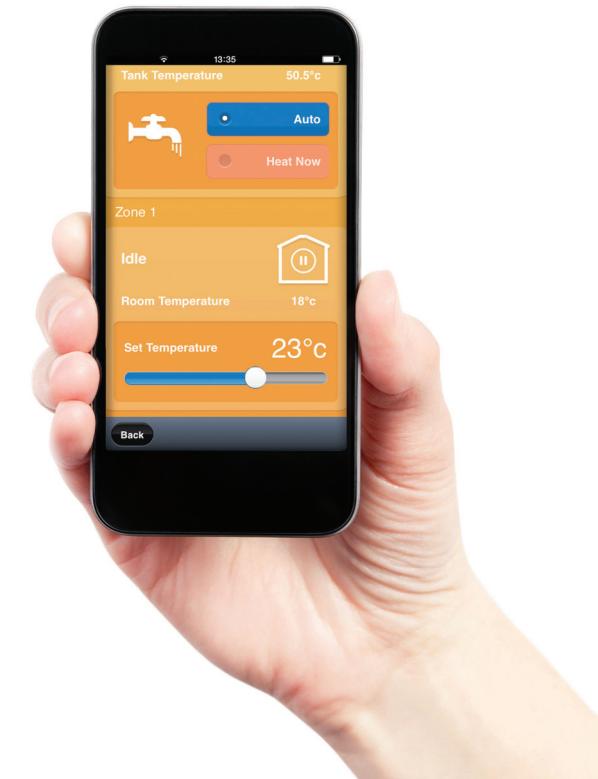
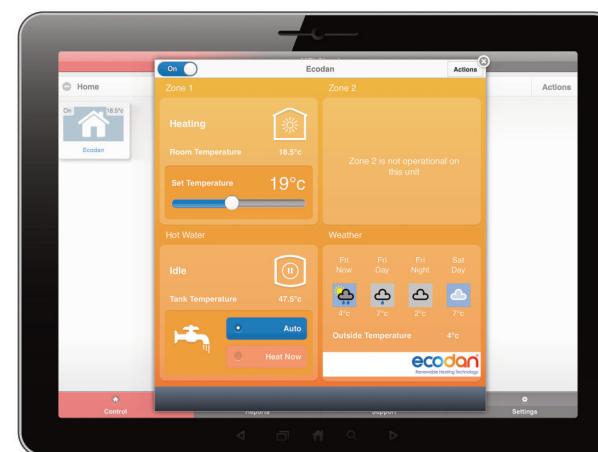
MELConsole

Ecodan Helpdesk

Once connected, you can also enjoy the benefits of **MELConsole** which provides **remote maintenance & technical support** reducing the need of a visit from an engineer.

MELConsole
Remote Maintenance & Technical Support

24/7 Technical Support





For a demonstration of Mitsubishi Electric's MELCloud visit our website: melcloud.com and click 'Login'



Available for PC, Mac, Tablet or Smartphone

Supported Ecodan Models

All Ecodan FTC6 systems have energy monitoring functionality as standard and the ability to connect to MELCloud. A MAC-587IF-E Wi-Fi Interface is required to use MELCloud.

Wi-Fi Interface	MAC-587IF-E
DESCRIPTION	Wi-Fi Interface
CONNECT TO	Indoor Unit
MAX NUMBER OF UNITS	1
COMPATIBILITY	Ecodan FTC6
POWER SUPPLY	From indoor unit
DIMENSIONS (WxDxH) mm	73.5 x 18.5 x 41.5
CONTROL	<input checked="" type="checkbox"/> On/Off <input checked="" type="checkbox"/> Mode <input checked="" type="checkbox"/> Heating Setpoint <input checked="" type="checkbox"/> Hot Water Boost <input checked="" type="checkbox"/> 2-Zone Control <input checked="" type="checkbox"/> Holiday Mode <input checked="" type="checkbox"/> Timer <input checked="" type="checkbox"/> Frost Protection
MONITOR	<input checked="" type="checkbox"/> On/Off <input checked="" type="checkbox"/> Mode <input checked="" type="checkbox"/> Heating Setpoint <input checked="" type="checkbox"/> Tank Temperature <input checked="" type="checkbox"/> Tank Target Temperature <input checked="" type="checkbox"/> Outside Temperature <input checked="" type="checkbox"/> Fault Codes <input checked="" type="checkbox"/> Consumed Electrical Energy <input checked="" type="checkbox"/> Produced Heat Energy

Supported Hardware / Software

Tablets (Apps or Web Client)

Apple iPad / iPad mini
Samsung Galaxy Tab / Note
Google Nexus
Dell Latitude 10
Microsoft Surface
BlackBerry PlayBook

Smartphones (Apps or Web Client)

Apple iPhone
Samsung Galaxy S
Google Nexus
Nokia Lumia
BlackBerry Z10

Operating Systems

Android™
Apple iOS / OS
Microsoft Windows
BlackBerry

Internet Browsers (Web Client only)

Microsoft Internet Explorer
Google Chrome
Apple Safari
Mozilla Firefox
Opera

Please Note:

This is not definitive list of all compatible devices, other similar devices which use supported Operating Systems or Internet Browsers should also work either via dedicated Apps or via Web Browser / Web Client options. Please note that user experience may vary slightly depending on hardware and software combination. Google, Android, Google Play, Google Chrome and other marks are trademarks of Google LLC.

i-LIFE2 Slim

Fan Assisted Radiator

The i-Life2 Slim Fan Assisted Radiator is designed to work seamlessly with existing heating or renewable technologies.

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



i-Life2 Slim units are managed by a variable speed fan motor that continuously modulates the fan speed

MODEL	i-LIFE2 SLIM DLMV 80	i-LIFE2 SLIM DLMV 170
CAPACITY (W) ^{2 * 6 * 8}	500 / 780 / 880	1060 / 1660 / 2130
ELECTRICAL DATA	Electrical Supply	230v, 50Hz
	Phase	Single
WATER DATA	Fan Power Input (W) - (Lo-Mi-Hi) ^{1 * 8}	0.7 / 4.6 / 10.7
	Water Flow Rate (l/min) - (Lo-Mi-Hi) ²	1.2 / 2.4 / 2.4
AIR DATA	Water Pressure Drop (kPa) - (Lo-Mi-Hi) ^{2 * 8}	3 / 6 / 8
	Air Flow Rate (m3/h) - (Lo-Mi-Hi) ¹	51 / 93 / 125
SOUND DATA	Sound Pressure (dB(A)) - (Lo-Mi-Hi) ³	24 / 35 / 41
	Sound Power (dB(A)) - (Lo-Mi-Hi) ^{4 * 7 * 8}	33 / 44 / 50
DIMENSIONS (mm) ⁵	Width	737
	Depth	131
	Height	579
WEIGHT (kg) ⁵	17	20

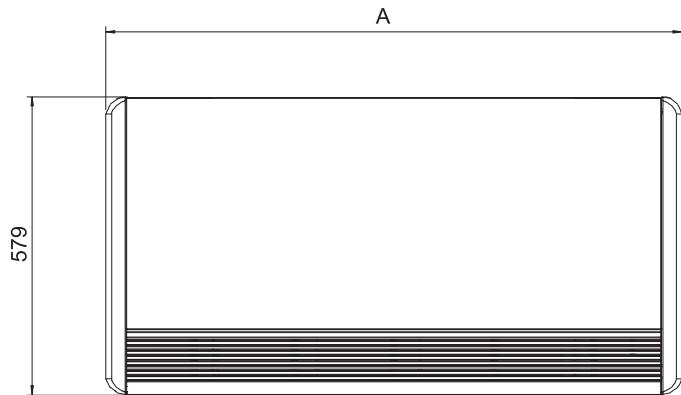
1. Room temperature 27°C d.b./19°C w.b.; Chilled water (in/out) 7/12°C.
2. Room temperature 20°C d.b.; Hot water (in/out) 45/40 °C.
3. Sound pressure level in free field on a reflective surface, 1m from fan front and 1m from the ground. Non-binding value obtained from sound power level.
4. Sound power 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.

Product Dimensions

i-LIFE2 SLIM DLMV 80 & i-LIFE2 SLIM DLMV 170

All measurement in mm

Front View



Side View



Upper View

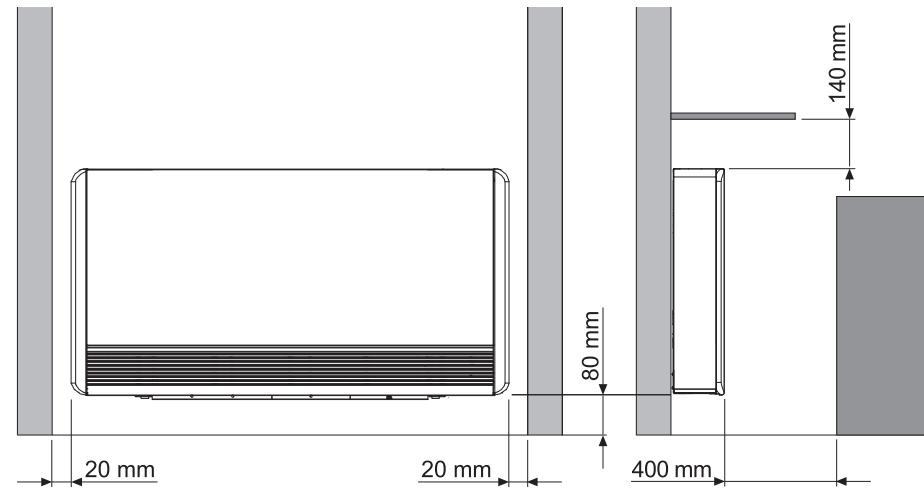


Dimensions	080	170
A	720	920

Installation Location

i-LIFE2 SLIM DLMV 80 & i-LIFE2 SLIM DLMV 170

All measurement in mm





Accessories / Optional Extras



PAR-WT60R-E
FTC Wireless Controller Transmitter

DESCRIPTION	MODEL REF.
QUHZ / PUZ	
FTC Wireless Controller Transmitter	PAR-WT60R-E
FTC Wireless Controller Receiver 2m Cable	PAR-WR61R-E
Modbus CN105 Interface	ACC-BEMS-A1M
FTC6 High Temperature Sensor 5m Cable	PAC-TH012HT-E
FTC6 High Temperature Sensor 30m Cable	PAC-TH012HTL-E
FTC Flow and Return Temperature Sensors 5m Cable	PAC-TH011-E
FTC6 Cylinder DHW Temp Sensor 5m Cable	PAC-TH011TK2-E
FTC6 Cylinder DHW Temp Sensor 30m Cable	PAC-TH011TKL2-E
FTC Service Diagnostic Tool	PAC-SK52ST
Ecodan Anti-Vibration Fix-It-Foot 600mm Kit	ACC-AVM-001
Ecodan Reinforced Lightweight Slab +Anti-Vibration Fix-It-Foot Kit	ACC-AVS-001
Std Drain Socket Kit	PAC-SG61DS-E
10L Anti Freeze	ACC-AFZ-010A
20L Anti Freeze	ACC-AFZ-020A
Insulated Through Wall Sleeve Kit (85mm)	ACC-FCP-TW1
External Pipework Trunking Length (1m x 140mm Black x2)	ACC-TRU-LE1
External Pipework Trunking Length (2m x 140mm Black x1)	ACC-TRU-LE2
External Pipework Trunking Length Connector (140mm Black)	ACC-TRU-JO1
External Pipework Trunking Wall Cover (140mm Black)	ACC-TRU-CO1
External Pipework Trunking Elbow (140mm Black)	ACC-TRU-EL1
External Pipework Trunking External Corner (140mm Black)	ACC-TRU-EC1
External Pipework Trunking Internal Corner (140mm Black)	ACC-TRU-IC1
Pack for 2 Zone Systems with Equal Temperatures	ACC-2ZP-K01
Pack for 2 Zone Systems with Different Temperatures	ACC-2ZP-K02
ALL Flow Balancing Valve	ACC-FBV-40L
Insulated Flexible Connection Pipes (QUHZ: 750mm x 15mm) Standard Pair	ACC-FCP-QUHZ
Insulated Flexible Connection Pipes (22mm x 500mm) Standard Pair	ACC-FCP-S22
Insulated Flexible Connection Pipes (28mm x 500mm) Standard Pair	ACC-FCP-S28
Insulated Flexible Connection Pipes (28mm x 300mm) Elbow Pair	ACC-FCP-E28
12L Exp Vessel +PRV	PAC-EVP12-E1
MELcloud Wi-Fi Interface	MAC-587IF-E



Ventilation

Fresh Air Ventilation Range





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Fresh Air Ventilation Range

Why Do We Need Fresh Air Ventilation?

The build-up of health damaging pollutants, mould and rot are all attributed to poor indoor air quality and the lack of effective ventilation.

With highly airtight buildings on the rise, alongside increasingly strict legislation on air quality, the need is growing for an effective solution such as mechanical ventilation, which is also energy efficient. Mitsubishi Electric systems are perfectly placed to address this need and are the ideal solution to provide fresh air.

Our range includes single and multi-room Mechanical Ventilation with Heat Recovery (MVHR) units and medium to large scale ventilation solutions including Air Handling Units (AHUs). All systems have been designed to provide the best ventilation solution for the chosen application, by delivering the required amount of fresh air, whilst extracting the right amount of stale air, in the most energy efficient way possible.



Fresh air benefits include:

- A healthy and better maintained building
- Improved air quality for occupants
- Improved comfort via the recovery of heat to incoming fresh air

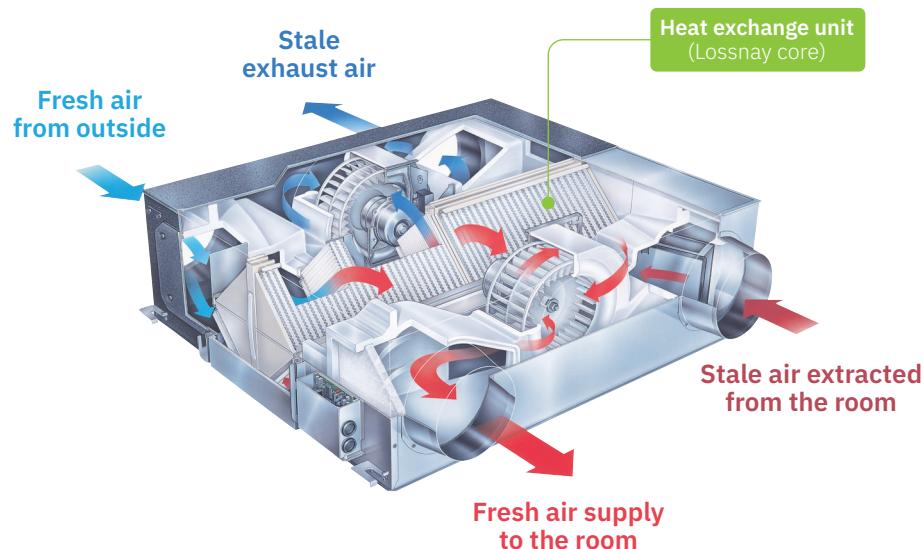
Excellent Air Quality and Heat Exchange Efficiency

How Lossnay Works

Our Lossnay systems have perfected the recovery of energy that would have otherwise been wasted. They do this by either warming or cooling incoming air, a feature which makes Mitsubishi Electric MVHR units extremely energy efficient.

Heat Recovery is made possible via the unique Lossnay ultra-thin paper core technology, which is constructed in a corrugated form and layered in alternative directions.

This design allows a cross airflow to maximise heat recovery without the supply and exhaust air mixing, ensuring only fresh air is introduced to the building.



How Air Handling Units work

Packaged Air Handling Units (AHUs) are designed to provide a tempered fresh air supply into commercial buildings. They work in conjunction with the building's air conditioning system to provide occupants with a fresh and comfortable environment.

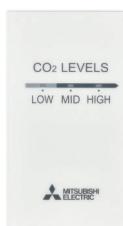
The technology behind the Climaveneta WizardX AHU includes a highly efficient heat recovery thermal wheel to transfer heat between the supply and return air. By capturing and reusing this heat before it leaves the building, substantial energy savings can be made.

This technology can also provide free cooling and benefits from fully integrated, intelligent controls.



LGH-RVX3-E

Commercial Lossnay



Compatible with Mitsubishi Electric
plug-and-play CO₂ sensor
(powered by the Lossnay unit)

Notes: Running current, power consumption, recovery efficiency, and sound levels are based on the above default airflow rates at 25%, 50%, 75%, and 100%. Specific duty point data is available upon request. Supply and exhaust fan speeds can be individually commissioned between 25% and 100% in 5% increments. Sound Pressure Level measured at 1.5m under the centre of the bottom panel. Air flow rates, external static pressure and specific fan powers tested to BS EN13053: 2019. Energy recovery efficiencies tested to BS EN308: 2022.

*1: EN 779 G4 equivalent according to 'REHVA Filter Class Conversion
between EN 779 and EN ISO 16890-1'.

The new Lossnay **LGH-RVX3-E** Mechanical Ventilation Heat Recovery (MVHR) systems are designed to supply clean, fresh air into any commercial building, whilst simultaneously extracting stale air, ensuring good indoor air quality for occupant wellbeing. These units are also able to recover valuable heat energy from inside the building, maximising energy efficiency and reducing running costs.

Key Features & Benefits

- Lossnay paper core enables total heat exchange (sensible and latent) to achieve higher levels of heat recovery, resulting in both cost and energy savings
- Flexible supply and exhaust fan commissioning in 5% increments, offering low running costs and easier compliance with Part L
- Optional Mitsubishi Electric energy saving CO₂ sensor allows automatic incremental fan control for a healthy indoor environment
- Full airflow in bypass mode, promoting good indoor air quality during free cooling
- Dual-Barrier coating on the fan prevents dust and grease accumulation, ensuring long-term efficient operation
- Lightweight structure ideal for easy ceiling installation
- Vertical installation available for flexibility of application
- Control compatibility with Mr Slim and City Multi air conditioning systems for a complete and highly effective system operation

MODEL	LGH-15RVX3-E	LGH-25RVX3-E	LGH-35RVX3-E	LGH-50RVX3-E	LGH-65RVX3-E	LGH-80RVX3-E	LGH-100RVX3-E	LGH-160RVX3-E	LGH-200RVX3-E	
25% (Default speed 1)	Air Volume m ³ /h l/s	38 10	63 17	88 24	125 35	163 45	200 56	250 69	400 111	
	External Static Pressure Pa	8	8	10	10	10	11	12	11	
	Temperature Exchange Efficiency Heating % Cooling %	81.5 78.0	88.0 85.0	82.0 79.0	75.0 73.0	82.0 80.0	80.0 78.0	83.5 82.5	80.0 78.0	
	Enthalpy Exchange Efficiency Heating % Cooling %	80.5 68.0	84.0 73.0	80.0 69.5	73.0 65.0	80.0 69.0	73.5 68.0	75.5 71.5	73.5 68.0	
	Specific Fan Power W/l/s	0.96	0.63	0.62	0.43	0.44	0.41	0.39	0.41	
	Input Power W	10	11	15	15	20	23	27	45	
	Sound Pressure Level dB(A)	17.0	17.0	17.0	17.0	17.5	18.0	18.5	18.0	
50% (Default speed 2)	Air Volume m ³ /h l/s	75 21	125 35	175 49	250 69	325 90	400 111	500 139	800 222	
	External Static Pressure Pa	30	30	40	38	38	43	48	43	
	Temperature Exchange Efficiency Heating % Cooling %	78.0 73.5	81.0 79.0	79.0 74.0	73.5 71.0	78.5 74.5	78.0 75.5	79.5 77.0	78.0 75.5	
	Enthalpy Exchange Efficiency Heating % Cooling %	76.5 61.0	75.5 65.0	77.5 63.5	72.0 60.0	76.5 61.5	70.5 62.5	68.5 64.0	70.5 62.5	
	Specific Fan Power W/l/s	0.72	0.60	0.60	0.49	0.56	0.58	0.60	0.58	
	Input Power W	15	21	29	34	51	64	83	128	
	Sound Pressure Level dB(A)	18.0	19.5	19.0	21.0	24.0	25.0	27.0	26.0	
75% (Default speed 3)	Air Volume m ³ /h l/s	113 31	188 52	263 73	375 104	488 135	600 167	750 167	1200 208	
	External Static Pressure Pa	68	68	90	85	85	96	107	96	
	Temperature Exchange Efficiency Heating % Cooling %	75.5 70.5	78.5 76.5	77.0 71.0	71.5 67.0	75.0 70.0	76.5 70.0	77.0 72.0	76.5 70.0	
	Enthalpy Exchange Efficiency Heating % Cooling %	73.5 57.0	72.0 60.5	74.5 59.5	69.5 55.0	72.0 55.0	65.0 56.0	63.0 59.0	65.0 56.0	
	Specific Fan Power W/l/s	0.96	0.81	0.84	0.78	0.89	0.96	1.01	0.97	
	Input Power W	30	42	61	81	120	160	210	324	
	Sound Pressure Level dB(A)	22.0	25.0	24.5	27.0	31.5	33.5	35.0	36.0	
100% (Default speed 4)	Air Volume m ³ /h l/s	150 42	250 69	350 97	500 139	650 181	800 222	1000 278	1600 444	
	External Static Pressure Pa	120	120	160	150	150	170	190	170	
	Temperature Exchange Efficiency Heating % Cooling %	73.5 65.5	75.5 70.5	75.0 66.5	70.5 63.5	72.5 65.0	75.0 65.0	75.5 67.5	75.0 65.0	
	Enthalpy Exchange Efficiency Heating % Cooling %	70.5 52.5	69.0 56.0	72.0 55.0	68.5 51.5	69.5 50.5	62.0 52.0	60.5 53.5	62.0 52.0	
	Specific Fan Power W/l/s	1.32	1.08	1.23	1.33	1.36	1.54	1.58	1.55	
	Input Power W	55	75	120	185	245	343	438	855	
	Sound Pressure Level dB(A)	27.0	30.5	30.5	35.0	37.5	39.0	40.0	41.0	
DUCT SIZE	mm	100	150	150	200	200	250	250	250	
WEIGHT	kg	20	22	30	33	41	47	53	96	
DIMENSIONS	Width x Depth x Height	780 x 610 x 289	780 x 735 x 289	888 x 874 x 331	888 x 1016 x 331	908 x 954 x 404	1144 x 1004 x 404	1144 x 1231 x 404	1144 x 1004 x 808	1144 x 1231 x 808
ELECTRICAL POWER SUPPLY						220-240V, 50Hz				
MAXIMUM CURRENT	A	0.57	0.88	1.37	1.86	2.37	3.23	3.77	4.74	
FUSE RATING (BS886) - HRC (A)	A	6	6	6	6	6	6	6	10	
HEAT EXCHANGER						Paper with specially treated Cellulose Membrane				
STANDARD FILTER						ISO 16890 Coarse 60%				

Accessories

Remote Controllers

PZ-62DR-EB

Lossnay remote controller for LGH-RVX3-E

Filters

PZ-15RF3-E

Standard replacement filter (Coarse 60%) for LGH-15RVX3-E

PZ-25RF3-E

Standard replacement filter (Coarse 60%) for LGH-25RVX3-E

PZ-35RF3-E

Standard replacement filter (Coarse 60%) for LGH-35RVX3-E

PZ-50RF3-E

Standard replacement filter (Coarse 60%) for LGH-50RVX3-E

PZ-65RF3-E

Standard replacement filter (Coarse 60%) for LGH-65RVX3-E

PZ-80RF3-E

Standard replacement filter (Coarse 60%) for
LGH-80RVX3-E / LGH-160RVX3-E (2 sets required)

PZ-100RF3-E

Standard replacement filter (Coarse 60%) for
LGH-100RVX3-E / LGH-200RVX3-E (2 sets required)

PZ-15RFP3-E

ePM₁ 75% grade filter for LGH-15RVX3-E

PZ-25RFP3-E

ePM₁ 75% grade filter for LGH-25RVX3-E

PZ-35RFP3-E

ePM₁ 75% grade filter for LGH-35RVX3-E

PZ-50RFP3-E

ePM₁ 75% grade filter for LGH-50RVX3-E

PZ-65RFP3-E

ePM₁ 75% grade filter for LGH-65RVX3-E

PZ-80RFP3-E

ePM₁ 75% grade filter for LGH-80RVX3-E / LGH-160RVX3-E (2 sets required)

PZ-100RFP3-E

ePM₁ 75% grade filter for LGH-100RVX3-E / LGH-200RVX3-E (2 sets required)

CO₂ Sensors

PZ-70CSW-E

Wall mounted plug and play CO₂ sensor with traffic light signals for LGH-RVX3-E

PZ-70CSD-E

Duct mounted plug and play CO₂ sensor for LGH-RVX3-E

Vertical Mounting Brackets

PZ-1VS-E

Vertical mounting bracket for LGH-15-50RVX3-E

PZ-2VS-E

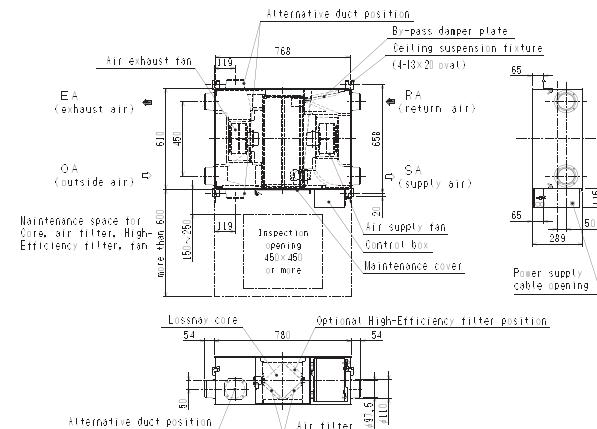
Vertical mounting bracket for LGH-65-100RVX3-E

Weather Proof Housings

Weather proof housings are also available

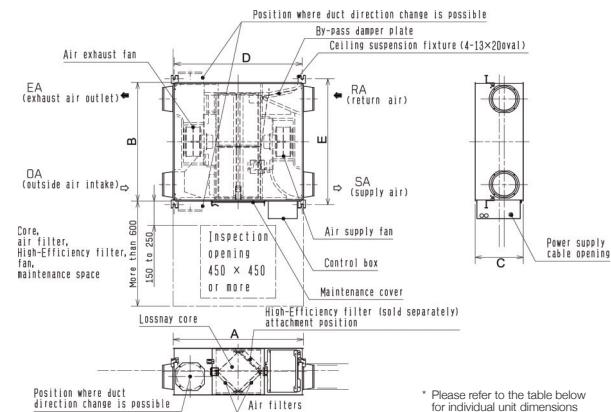
Product Dimensions

LGH-15RVX3-E



Product Dimensions

LGH-25-100RVX3-E

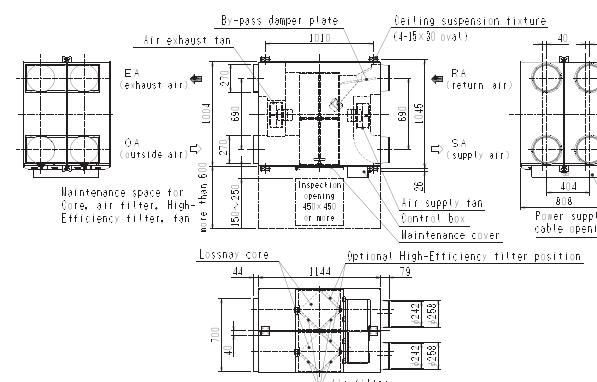


* Please refer to the table below for individual unit dimensions

MODEL REFERENCE	DIMENSIONS			CEILING SUSPENSION FIXTURE PITCH		NOMINAL DUCT DIAMETER
	A	B	C	D	E	
LGH-25RVX3-E	780	735	289	768	782	150
LGH-35RVX3-E	888	874	331	875	921	150
LGH-50RVX3-E	888	1016	331	875	1063	200
LGH-65RVX3-E	908	954	404	895	1001	200
LGH-80RVX3-E	1144	1004	404	1131	1051	250
LGH-100RVX3-E	1144	1231	404	1131	1278	250

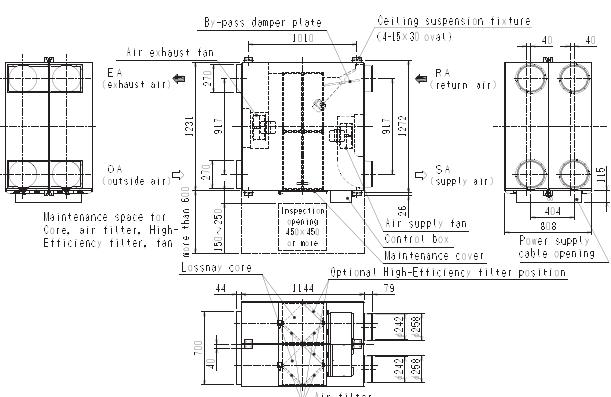
Product Dimensions

LGH-160RVX3-E



Product Dimensions

LGH-200RVX3-E



LGH-RVXT-E

Commercial Lossnay



Lossnay **LGH-RVXT-E** Mechanical Ventilation Heat Recovery (MVHR) systems are designed to supply clean, fresh air into any commercial building, whilst simultaneously extracting stale air, ensuring good indoor air quality for occupant wellbeing. Offering a significantly reduced height, whilst maintaining a large airflow, these units are designed for installation in ceiling voids within commercial properties.

Key Features & Benefits

- Lossnay paper core enables total heat exchange (sensible and latent) to achieve higher levels of heat recovery, resulting in both cost and energy savings
- Lightweight structure, ideal for ceiling installation
- No condensate drain requirement
- Unit height of 500mm for ease of application
- Compatible with Mr Slim and City Multi air conditioning systems, creating a complete and highly effective system

MODEL	LGH-150RVXT-E	LGH-200RVXT-E	LGH-250RVXT-E	
ELECTRICAL POWER SUPPLY	220-240V, 50Hz	220-240V, 50Hz	220-240V, 50Hz	
RUNNING CURRENT (A)	SP1 SP2 SP3 SP4	0.36 1.10 2.40 4.30	0.39 1.10 2.70 5.40	0.57 1.40 3.60 7.60
INPUT POWER (W)	SP1 SP2 SP3 SP4	48 176 421 792	56 197 494 1000	82 244 687 1446
AIRFLOW (m³/h) ²	SP1 SP2 SP3 SP4	375 750 1125 1500	500 1000 1500 2000	625 1250 1875 2500
AIRFLOW (l/s) ²	SP1 SP2 SP3 SP4	104 208 313 417	139 278 417 556	174 347 521 694
SPECIFIC FAN POWER (W/l/s)	SP1 SP2 SP3 SP4	0.46 0.85 1.35 1.90	0.40 0.71 1.18 1.80	0.47 0.70 1.32 2.08
EXTERNAL STATIC PRESSURE (Pa)	SP1 SP2 SP3 SP4	11 44 98 175	11 44 98 175	11 44 98 175
SOUND PRESSURE LEVEL (dBA)	SP1 SP2 SP3 SP4	22 29.5 35.5 39.5	22 28 35.5 39.5	24 32 39 43
TEMPERATURE EXCHANGE EFFICIENCY (%)	SP1 SP2 SP3 SP4	81.5 81 80.5 80	84 82.5 81 80	82.5 80.5 79 77
ENTHALPY EXCHANGE EFFICIENCY (%)	Heating SP1 SP2 SP3 SP4 Cooling SP1 SP2 SP3 SP4	75 73 71 70 74 72 70 69	83 77 73.5 72.5 80.5 74.5 71 70	79 74 71.5 68 76.5 71.5 69 65.5
WEIGHT (kg)		156	159	198
DIMENSIONS (mm)	Width x Depth x Height	1980 x 1500 x 500	1980 x 1500 x 500	1980 x 1500 x 500
DUCT SIZE (mm)		250 x 750	250 x 750	250 x 750
STANDARD FILTER ¹		EU-G3	EU-G3	EU-G3
FUSE RATING (BS88) – HRC (A)		10	10	10

Notes: Running Current, Input Power and Recovery Efficiency are based on the above airflow rate, power supply 240v, 50Hz. Sound Pressure Level measured at 1.5m under the centre of panel.

¹: M6 medium efficiency filter and F8 high efficiency filter available as optional parts. ²: Airflow tested to Japan industrial standard JIS B 8628. SP1, SP2, SP3 & SP4 relate to the fan speeds of the Lossnay RVXT units i.e. fanspeed 1, 2, 3 & 4.

Accessories

Remote Controllers

PZ-62DR-EB

Lossnay remote controller for LGH-RVXT-E

Filters

PZ-M6RTFM-E

ePM₁₀ 75% / M6 filter for LGH-RVXT-E

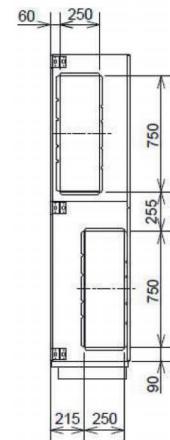
PZ-F8RTFM-E

ePM₁ 65% / F8 filter for LGH-RVXT-E

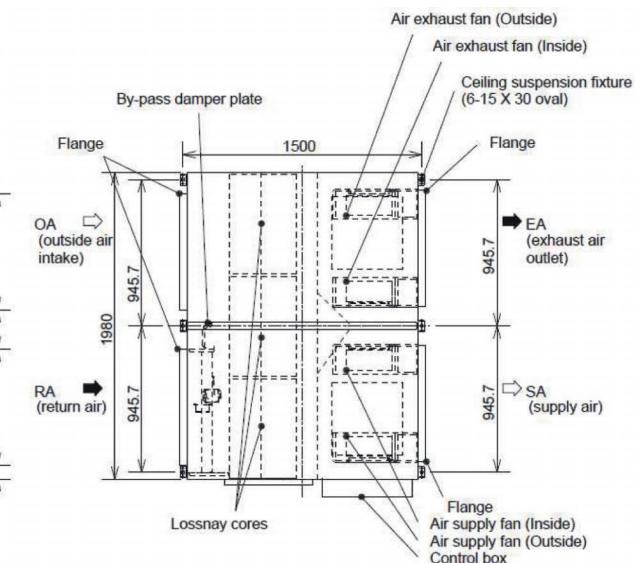
Product Dimensions

LGH-150/200/250RVXT-E

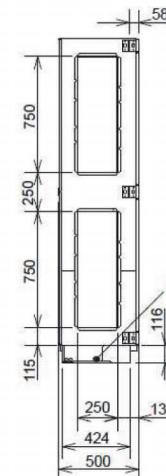
Left Side View



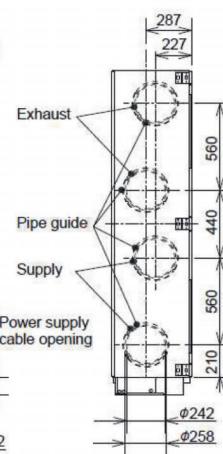
Upper View



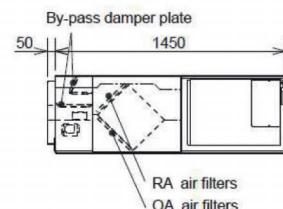
Right Side View



When using φ 250 duct



Front View



LGH-RVS-E

Commercial Lossnay



Compatible with Mitsubishi Electric
plug-and-play CO₂ sensor
(powered by the Lossnay unit)

The **LGH-RVS-E** is designed to simultaneously extract stale air from a commercial building and supply fresh filtered air. Whilst doing this the Lossnay units also recover valuable heat energy for maximum efficiency.

Key Features & Benefits

- Fresh air ventilation with energy efficient heat recovery
- Plastic heat exchanger - perfect for higher humidity environments
- Optional plug and play CO₂ sensor control including power
- Digital commissioning of fan speed increments
- Easy control interlock with Mr Slim and City Multi air conditioning systems
- M-NET connection for centralised control
- Integrated bypass damper for free cooling
- In-built condensate drainage traps

MODEL	LGH-50RVS-E	LGH-80RVS-E	LGH-100RVS-E	
25%	Air Volume l/s m ³ /hr	35 125	56 200	69 250
	External Static Pressure Pa	9	11	12
	Temperature Exchange Efficiency %	93	90	90
	Specific Fan Power W/(l/s)	0.72	0.58	0.5
	Input Power W	25	32	35
	Sound Pressure Level dB(a)	18	18	18
50%	Air Volume l/s m ³ /hr	69 250	111 400	139 500
	External Static Pressure Pa	38	43	48
	Temperature Exchange Efficiency %	91	86	86
	Specific Fan Power W/(l/s)	0.86	0.77	0.72
	Input Power W	60	85	100
	Sound Pressure Level dB(a)	22	25	24
75%	Air Volume l/s m ³ /hr	104 375	167 600	208 750
	External Static Pressure Pa	84	96	107
	Temperature Exchange Efficiency %	89	84	84
	Specific Fan Power W/(l/s)	1.06	1.05	1.08
	Input Power W	110	175	225
	Sound Pressure Level dB(a)	27	30	32
100%	Air Volume l/s m ³ /hr	139 500	222 800	278 1000
	External Static Pressure Pa	150	170	190
	Temperature Exchange Efficiency %	87	82	82
	Specific Fan Power W/(l/s)	1.37	1.46	1.6
	Input Power W	190	325	445
	Sound Pressure Level dB(a)	33	36	37
DUCT SIZE	mm	200	250	250
WEIGHT	(with full condensate drain) kg	55 (67)	63 (77)	73 (89)
DIMENSIONS	Width x Depth x Height mm	974 x 946 x 465	1185 x 997 x 465	1185 x 1224 x 465
ELECTRICAL POWER SUPPLY		220-240V, 50Hz	220-240V, 50Hz	220-240V, 50Hz
MAXIMUM RUNNING CURRENT	A	2.2	3.7	4.2
FUSE RATING (BS88) - HRC (A)	A	6	6	6
HEAT EXCHANGER		Plastic Counter Flow		
CONDENSATE CONNECTION	mm	32	32	32
STANDARD FILTER	ISO 16890:2016 / EN779:2012	Coarse 35% / G3		
OPTIONAL FILTER(S)	ISO 16890:2016 / EN779:2012	ePM ₁ 65%, ePM _{2.5} 75%, ePM ₁₀ 90% / F8 ePM ₁₀ 80% / M6		

Notes: Airflow rate, static pressure, power input, running current, and heat exchange efficiency tested to ISO 16494 (winter condition), 230v 50Hz. A-Weighted Sound Pressure Level measured at 1.5m under the centre of the unit in an anechoic chamber.

Accessories

Remote Controllers

PZ-62DR-EB

Lossnay remote controller for LGH-RVS-E

Filters

PZ-S50RF-E

Replacement Coarse 35% / G3 filter for LGH-50RVS-E

PZ-S80RF-E

Replacement Coarse 35% / G3 filter for LGH-80RVS-E

PZ-S100RF-E

Replacement Coarse 35% / G3 filter for LGH-100RVS-E

PZ-S50RFM-E

ePM₁₀ 80% / M6 filter for LGH-50RVS-E

PZ-S80RFM-E

ePM₁₀ 80% / M6 filter for LGH-80RVS-E

PZ-S100RFM-E

ePM₁₀ 80% / M6 filter for LGH-100RVS-E

PZ-S50RFH-E

ePM₁ 65% / F8 filter for LGH-50RVS-E

PZ-S80RFH-E

ePM₁ 65% / F8 filter for LGH-80RVS-E

PZ-S100RFH-E

ePM₁ 65% / F8 filter for LGH-100RVS-E

CO₂ Sensors

PZ-70CSW-E

Wall mounted plug and play CO₂ sensor with traffic light signals for LGH-RVS-E

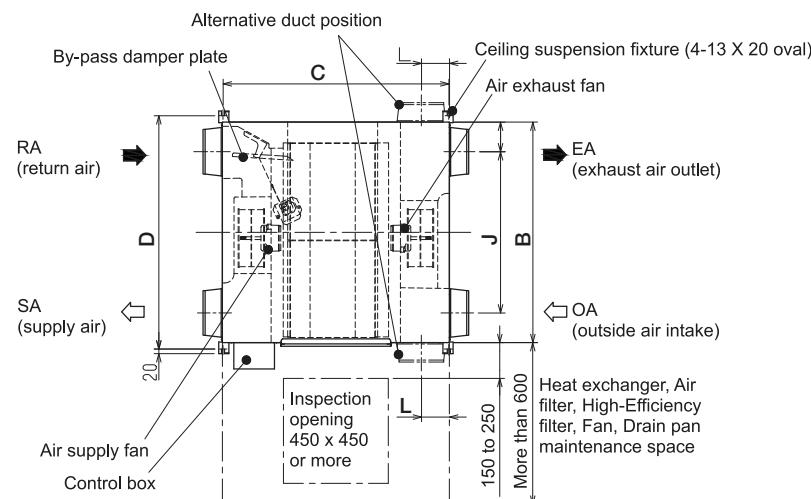
PZ-70CSD-E

Duct mounted plug and play CO₂ sensor for LGH-RVS-E

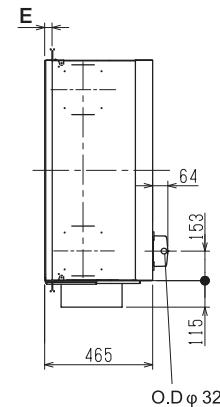
Product Dimensions

LGH-50/80/100RVS-E

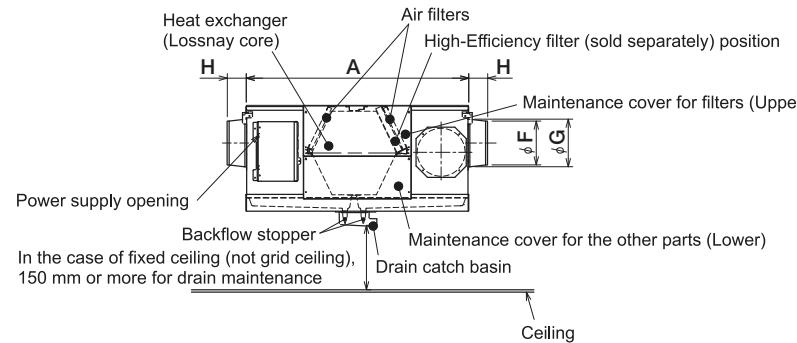
Upper View



Side View



Front View



	A	B	C	D	E	F	G	H	J	L
LGH-50RVS-E	974	946	969	1001	32	192	208	83	692	120
LGH-80RVS-E	1185	997	1179	1051	55	242	258	82	683	161
LGH-100RVS-E	1185	1224	1179	1279	55	242	258	82	910	161

VL-100EU₅-E

Wall Mounted Lossnay



The **VL-100** wall mounted Lossnay supplies fresh air into a room, simultaneously extracting stale air in an energy efficient manner. The recovery of both latent heat and sensible heat ensures a comfortable internal environment, minimising heat loss and saving both energy and costs. Easy to install, this compact unit is ideal for single room applications, such as small offices, bedrooms, and spaces where a ducted system is not an option.

Key Features & Benefits

- Effective fresh air ventilation for improved air quality
- Lossnay paper core enables total heat exchange (sensible and latent) to achieve higher levels of heat recovery, resulting in both cost and energy savings
- Simple installation
- Optional extension pipe kit and joint available

MODEL	VL-100EU ₅ -E	
ELECTRICAL POWER SUPPLY	220-240V, 50Hz	
PHASE	Single	
POWER CONSUMPTION (W)	Low	17
	High	34
AIRFLOW (m ³ /h)	Low	61
	High	106
SOUND PRESSURE LEVEL (dBA)	Low	27
	High	38
TEMPERATURE EXCHANGE EFFICIENCY (%)	Low	79
	High	72
WEIGHT (kg)	7.5	
DIMENSIONS (mm)	Width	620
	Depth	200
	Height	265
DUCT SIZE (mm)	2 x 075	
FUSE RATING (BS88) - HRC (A)	6	
MAINS CABLE No. Cores	3	
CONTROL ON/OFF	Field Supplied	

Notes: The VL-100EU₅-E includes the option to fit a field supplied external wall switch.

Accessories

Filters

P-100HF₅-E

M6 filter for VL-100EU₅-E

Extension Pipe Kits

P-100P-E

Extension pipe for VL-100EU₅-E (300mm)

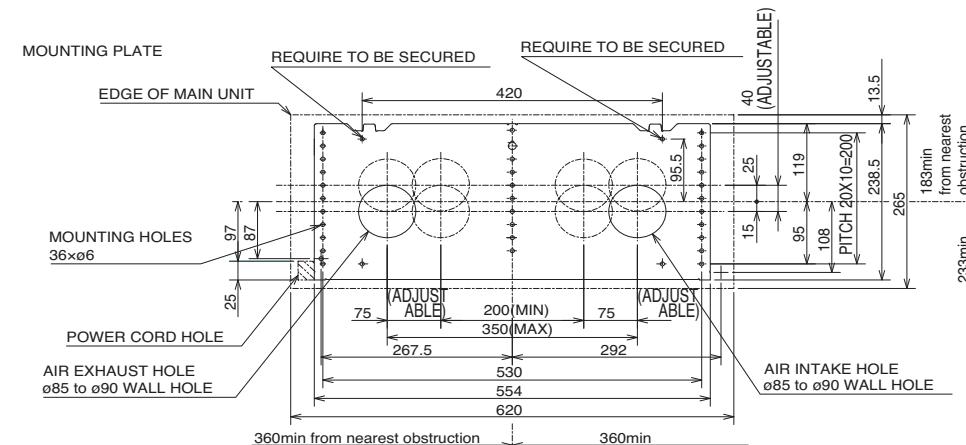
P-100PJ-E

Extension pipe joint for VL-100EU₅-E (300mm)

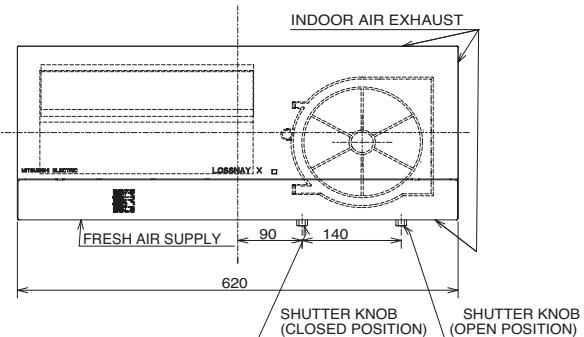
Product Dimensions

VL-100EU₅-E

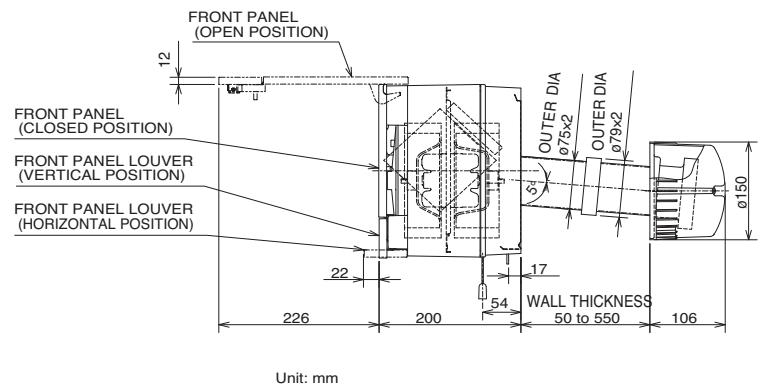
Front View



Upper View



Side View



VL-CZPVU-R/L-E

Residential Lossnay



The VL-CZPVU-R/L-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
- Cloud control
- Suitable for use in individual houses or in multi-residential apartment applications

MODEL	VL-250CZPVU-R/L-E	VL-350CZPVU-R/L-E	VL-500CZPVU-R/L-E			
DIMENSIONS (mm)	Width x Depth x Height 595 x 386 x 563	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			
MAX RUNNING CURRENT (A)	1.0	1.32	2.3			
SUMMER BYPASS	Full Bypass	Full Bypass	Full Bypass			
SPIGOT DIAMETER (mm)	125	150	160 / 180			
STANDARD FILTER (ISO 16890:2016/EN779:2012)	Outside Air Coarse 55% / G3 Return Air Coarse 55% / G3	Coarse 55% / G3 Coarse 55% / G3	Coarse 55% / G3 Coarse 55% / G3			
OPTIONAL FILTER(S)	Supply Air NOx 90% Outside Air ePM2.5 50%	NOx 90% ePM2.5 50%	NOx 90% ePM2.5 50%			
SAP 2012 PCDB DATA	SFP W/(l/s)	HEAT EXCHANGE EFFICIENCY (%)	SFP W/(l/s)	HEAT EXCHANGE EFFICIENCY (%)	SFP W/(l/s)	HEAT EXCHANGE EFFICIENCY (%)
K + 1 (21 l/s)	0.62	90	0.86	90	0.80	91
K + 2 (29 l/s)	0.67	89	0.80	90	0.72	90
K + 3 (37 l/s)	0.79	88	0.84	89	0.74	90
K + 4 (45 l/s)	1.00	87	0.96	89	0.82	89
K + 5 (53 l/s)	1.19	87	1.08	88	0.91	88
K + 6 (61 l/s)	-	-	1.28	87	1.09	88
K + 7 (69 l/s)	-	-	-	-	1.24	88

Accessories

Remote Controllers

P-RCC-E

Remote controller cover and 1m cable with noise filter for VL-CZPVU-E

Filters

P-250F-E

Replacement Coarse 55% / G3 filter for VL-250CZPVU-E

P-350F-E

Replacement Coarse 55% / G3 filter for VL-350CZPVU-E

P-500F-E

Replacement Coarse 55% / G3 filter for VL-500CZPVU-E

P-250PF-E

ePM_{2.5} 50% / M6 filter for VL-250CZPVU-E

P-350PF-E

ePM_{2.5} 50% / M6 filter for VL-350CZPVU-E

P-500PF-E

ePM_{2.5} 50% / M6 filter for VL-500CZPVU-E

P-250NF-E

NOx 90% supply air filter for VL-250CZPVU-E

P-350NF-E

NOx 90% supply air filter for VL-350CZPVU-E

P-500NF-E

NOx 90% supply air filter for VL-500CZPVU-E

Noise Attenuators

P-250SB-E

Acoustic top box for VL-250CZPVU-E

P-350SB-E

Acoustic top box for VL-350CZPVU-E

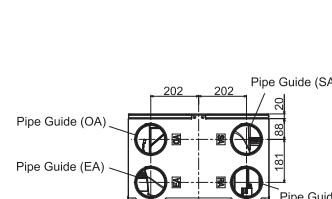
P-500SB-E

Acoustic top box for VL-500CZPVU-E

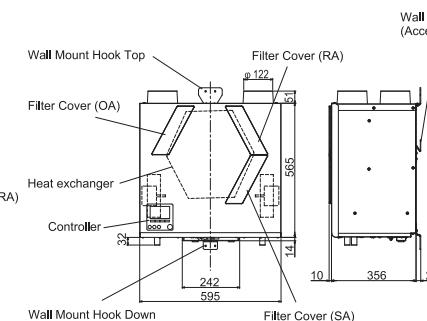
Product Dimensions

VL-250CZPVU-R/L-E

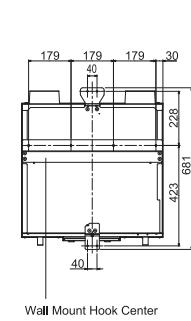
Upper View



Front View

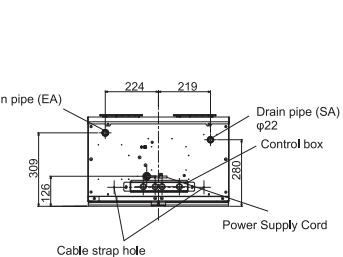


Right Side View



Rear View

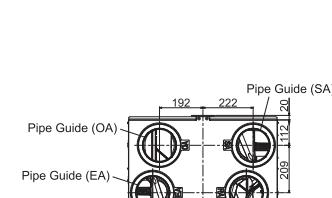
Lower View



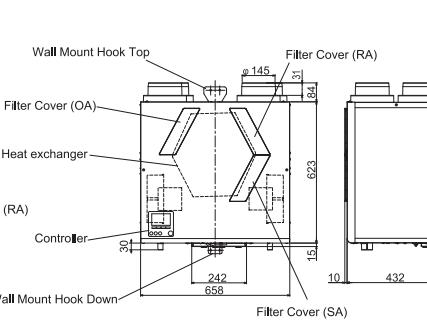
Product Dimensions

VL-350CZPVU-R/L-E

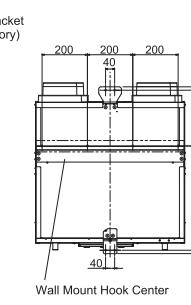
Upper View



Front View

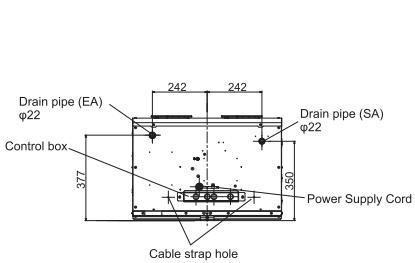


Right Side View



Rear View

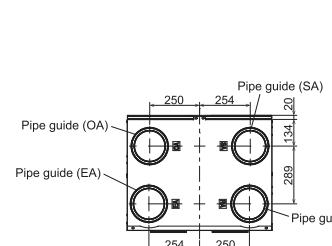
Lower View



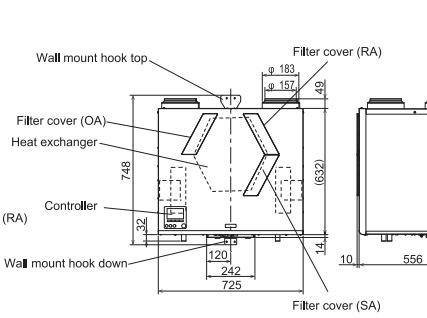
Product Dimensions

VL-500CZPVU-R/L-E

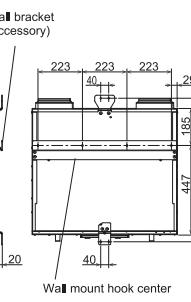
Upper View



Front View

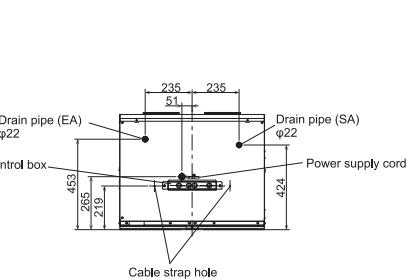


Right Side View



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.

GUG-SL-E

Lossnay Air Processing DX Unit

Return Air Temperature Control
(5.1 to 14.1kW)



The **GUG-SL-E** combines a Lossnay Mechanical Ventilation with Heat Recovery (MVHR) unit with a Mr Slim Power Inverter outdoor heat pump, to heat and cool the supply air delivered to the space. In return-temperature control mode, the combination of these technologies provides both the fresh air and temperature control to a space from a single system, offering an ideal solution for offices, schools & retail.

Key Features & Benefits

- Effective fresh air ventilation for improved air quality
- Provides heat recovery ventilation and air conditioning from the same system
- Single system reduces installation time, cost and space
- Heating / cooling with no recirculation of extracted air in the space



MODEL	GUG50-51RAV3	GUG65-60RAV3	GUG80-75RAV3	GUG100-103RAV3	GUG150-157RAVT	GUG150-157RAYT	GUG160-141RAV3
FAN SPEED 3 (75%)	Air Volume (l/s)	104	135	167	208	313	313
	External Static Pressure (Pa)	76	70	84	84	84	95
FAN SPEED 4 (100%)	Air Volume (l/s)	139	181	222	278	417	417
	External Static Pressure (Pa)	135	125	150	150	150	169
HEATING CAPACITY ¹ (kW)	DX Coil Capacity	4.1	4.5	6.0	8.1	13.0	13.0
	Heat Recovery Capacity	2.4	3.2	3.5	4.3	7.4	6.6
	Total Capacity	6.5	7.7	9.5	12.4	20.4	19.6
COOLING CAPACITY ¹ (kW)	DX Coil Capacity	3.6	4.0	5.0	7.1	9.5	9.5
	Heat Recovery Capacity	1.5	2.0	2.5	3.2	6.2	6.2
	Total Capacity	5.1	6.0	7.5	10.3	15.7	14.1
SHF	Nominal	0.64	0.66	0.66	0.62	0.68	0.68
SYSTEM POWER INPUT (kW)	Heating (nominal)	1.61	1.62	2.17	3.00	5.01	5.01
	Cooling (nominal)	1.21	1.31	1.75	2.29	3.12	3.12
PERFORMANCE INDEX ²	Heating (nominal)	4.04	4.74	4.37	4.13	4.07	4.07
	Cooling (nominal)	4.20	4.60	4.28	4.50	5.03	5.03
MAX PIPE LENGTH (m)	50	50	50	50	75	75	75
MAX HEIGHT DIFFERENCE (m)	30	30	30	30	30	30	30
PIPE SIZE mm(in)	Gas	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
	Liquid	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
GUG DIMENSIONS (mm)	Width x Depth x Height	812 x 607 x 330	812 x 607 x 330	1034 x 607 x 394	1034 x 607 x 394	1130 x 576 x 404	1130 x 576 x 404
GUG WEIGHT (kg)		21	21	26	26	28	28
GUG ELECTRICAL SUPPLY (supplied from outdoor unit) ³	220-240v / 50Hz	220-240v / 50Hz	220-240v / 50Hz	220-240v / 50Hz	220-240v / 50Hz	220-240v / 50Hz	220-240v / 50Hz
GUG UNIT ⁴	GUG-01SL-E	GUG-01SL-E	GUG-02SL-E	GUG-02SL-E	GUG-03SL-E	GUG-03SL-E	GUG-03SL-E
MR SLIM OUTDOOR UNIT	PUHZ-ZRP35VKA2	PUHZ-ZRP35VKA2	PUHZ-ZRP50VKA2	PUHZ-ZRP71VHA2	PUHZ-ZRP100VKA3	PUHZ-ZRP100YKA3	PUHZ-ZRP100VKA3
LOSSNAY UNIT	LGH-50RVX3-E	LGH-65RVX3-E	LGH-80RVX3-E	LGH-100RVX3-E	LGH-150RVXT-E	LGH-150RVXT-E	LGH-160RVX3-E
LOSSNAY CONTROLLER	PZ-62DR-EB	PZ-62DR-EB	PZ-62DR-EB	PZ-62DR-EB	PZ-62DR-EB	PZ-62DR-EB	PZ-62DR-EB

Notes:

¹ The cooling and heating capacities are based on the rated airflow of fan speed 4 and the following air conditions: Cooling Indoor: 27°CDB/19°CWB Outdoor: 35°CDB/24°CWB. Heating Indoor: 20°CDB/15°CWB Outdoor: 7°CDB/6°CWB

² Performance index is the total capacity divided by the total power consumption of the outdoor unit and Lossnay at the conditions above.

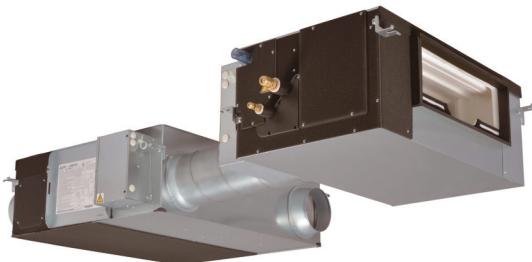
³ For electrical power requirements for Lossnay and Mr Slim outdoor unit, please refer to their respective sections

⁴ GUG unit includes a dedicated controller

GUG-SL-E

Lossnay Air Processing DX Unit

Return Air Temperature Control
(14.1 to 22.3kW)



The **GUG-SL-E** combines a Lossnay Mechanical Ventilation with Heat Recovery (MVHR) unit with a Mr Slim Power Inverter outdoor heat pump, to heat and cool the supply air delivered to the space. In return-temperature control mode, the combination of these technologies provides both the fresh air and temperature control to a space from a single system, offering an ideal solution for offices, schools & retail.

Key Features & Benefits

- Effective fresh air ventilation for improved air quality
- Provides heat recovery ventilation and air conditioning from the same system
- Single system reduces installation time, cost and space
- Heating / cooling with no recirculation of extracted air in the space



MODEL	GUG160-141RAY3	GUG200-168RAV3	GUG200-168RAY3	GUG200-184RAVT	GUG200-184RAYT	GUG250-223RAVT	GUG250-223RAYT
FAN SPEED 3 (75%)	Air Volume (l/s)	313	417	417	417	521	521
	External Static Pressure (Pa)	95	71	71	82	79	79
FAN SPEED 4 (100%)	Air Volume (l/s)	417	556	556	556	694	694
	External Static Pressure (Pa)	169	125	125	145	140	140
HEATING CAPACITY ¹ (kW)	DX Coil Capacity	13	13.5	13.5	13.5	14	14
	Heat Recovery Capacity	6.6	8.6	8.6	10.3	12.1	12.1
	Total Capacity	19.6	22.1	22.1	23.8	26.1	26.1
COOLING CAPACITY ¹ (kW)	DX Coil Capacity	9.5	10.0	10.0	10.0	12.5	12.5
	Heat Recovery Capacity	4.6	6.8	6.8	8.4	9.8	9.8
	Total Capacity	14.1	16.8	16.8	18.4	22.3	22.3
SHF	Nominal	0.65	0.74	0.74	0.76	0.87	0.87
SYSTEM POWER INPUT (kW)	Heating (nominal)	4.90	4.75	4.75	4.89	5.49	5.49
	Cooling (nominal)	3.02	3.14	3.14	3.29	4.86	4.86
PERFORMANCE INDEX ²	Heating (nominal)	4.00	4.66	4.66	4.86	4.75	4.75
	Cooling (nominal)	4.68	5.34	5.34	5.59	4.59	4.59
MAX PIPE LENGTH (m)		75	75	75	75	75	75
MAX HEIGHT DIFFERENCE (m)		30	30	30	30	30	30
PIPE SIZE mm(in)	Gas	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
	Liquid	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
GUG DIMENSIONS (mm)	Width x Depth x Height	1130 x 576 x 404					
GUG WEIGHT (kg)		28	28	28	28	28	28
GUG ELECTRICAL SUPPLY (supplied from outdoor unit) ³		220-240V / 50Hz					
GUG UNIT ⁴		GUG-03SL-E	GUG-03SL-E	GUG-03SL-E	GUG-03SL-E	GUG-03SL-E	GUG-03SL-E
MR SLIM OUTDOOR UNIT		PUHZ-ZRP100YKA3	PUHZ-ZRP100VKA3	PUHZ-ZRP100YKA3	PUHZ-ZRP100VKA3	PUHZ-ZRP100YKA3	PUHZ-ZRP125VKA3
LOSSNAY UNIT		LGH-160RVX3-E	LGH-200RVX3-E	LGH-200RVX3-E	LGH-200RVXT-E	LGH-250RVXT-E	LGH-250RVXT-E
LOSSNAY CONTROLLER		PZ-62DR-EB	PZ-62DR-EB	PZ-62DR-EB	PZ-62DR-EB	PZ-62DR-EB	PZ-62DR-EB

Notes:

¹ The cooling and heating capacities are based on the rated airflow of fan speed 4 and the following air conditions: Cooling Indoor: 27°CDB/19°CWB Outdoor: 35°CDB/24°CWB. Heating Indoor: 20°CDB/15°CWB Outdoor: 7°CDB/6°CWB

² Performance index is the total capacity divided by the total power consumption of the outdoor unit and Lossnay at the conditions above.

³ For electrical power requirements for Lossnay and Mr Slim outdoor unit, please refer to their respective sections

⁴ GUG unit includes a dedicated controller

GUG-SL-E

Lossnay Air Processing DX Unit

Supply Air Temperature Control
(7.5-17.6kW)



The **GUG-SL-E** combines a Lossnay Mechanical Ventilation with Heat Recovery (MVHR) unit with a Mr Slim Power Inverter outdoor heat pump, to heat and cool the supply air delivered to the space. In supply air temperature control mode, the combination of both technologies provides effective tempering of fresh air entering a space, taking the load off other cooling/heating services, whilst eliminating any chance of draughts.

Key Features & Benefits

- Effective fresh air ventilation for improved air quality
- Provides heat recovery ventilation and air conditioning from the same system
- Single system reduces installation time, cost and space
- Heating / cooling with no recirculation of extracted air in the space



MODEL	GUG80-75SAV3	GUG100-85SAV3	GUG150-133SAVT	GUG160-117SAV3	GUG200-142SAV3	GUG200-159SAVT	GUG250-176SAVT
FAN SPEED 3 (75%)	Air Volume (l/s)	167	208	313	313	417	417
	External Static Pressure (Pa)	84	84	84	95	71	82
FAN SPEED 4 (100%)	Air Volume (l/s)	222	278	417	417	556	556
	External Static Pressure (Pa)	150	150	150	169	125	145
HEATING CAPACITY ¹ (kW)	DX Coil Capacity	6.0	6.3	8.9	8.9	9.2	9.2
	Heat Recovery Capacity	3.5	4.3	7.4	6.6	8.6	10.3
	Total Capacity	9.5	10.6	16.3	15.5	17.8	19.5
COOLING CAPACITY ¹ (kW)	DX Coil Capacity	5.0	5.3	7.1	7.1	7.4	7.4
	Heat Recovery Capacity	2.5	3.2	6.2	4.6	6.8	8.5
	Total Capacity	7.5	8.5	13.3	11.7	14.2	15.9
SHF	Nominal	0.66	0.69	0.86	0.81	0.87	0.90
SYSTEM POWER INPUT (kW)	Heating (nominal)	2.17	2.26	3.16	3.06	3.10	3.25
	Cooling (nominal)	1.75	1.77	2.64	2.54	2.72	2.87
PERFORMANCE INDEX ²	Heating (nominal)	4.37	4.70	5.16	5.07	5.74	6.01
	Cooling (nominal)	4.28	4.81	5.03	4.61	5.21	5.54
MAX PIPE LENGTH (m)	50	50	50	50	50	50	50
MAX HEIGHT DIFFERENCE (m)	30	30	30	30	30	30	30
PIPE SIZE mm(in)	Gas	12.7 (1/2")	12.7 (1/2")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
	Liquid	6.35 (1/4")	6.35 (1/4")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
GUG DIMENSIONS (mm)	Width x Depth x Height	1034 x 607 x 394	1034 x 607 x 394	1130 x 576 x 404			
GUG WEIGHT (kg)		26	26	28	28	28	28
GUG ELECTRICAL SUPPLY (supplied from outdoor unit) ³	220-240V / 50Hz	220-240V / 50Hz	220-240V / 50Hz	220-240V / 50Hz	220-240V / 50Hz	220-240V / 50Hz	220-240V / 50Hz
GUG UNIT ⁴	GUG-02SL-E	GUG-02SL-E	GUG-03SL-E	GUG-03SL-E	GUG-03SL-E	GUG-03SL-E	GUG-03SL-E
MR SLIM OUTDOOR UNIT	PUHZ-ZRP50VKA2	PUHZ-ZRP50VKA2	PUHZ-ZRP71VHA2	PUHZ-ZRP71VHA2	PUHZ-ZRP71VHA2	PUHZ-ZRP71VHA2	PUHZ-ZRP71VHA2
LOSSNAY UNIT	LGH-80RVX3-E	LGH-100RVX3-E	LGH-150RVXT-E	LGH-160RVX3-E	LGH-200RVX3-E	LGH-200RVXT-E	LGH-250RVXT-E
LOSSNAY CONTROLLER	PZ-62DR-EB	PZ-62DR-EB	PZ-62DR-EB	PZ-62DR-EB	PZ-62DR-EB	PZ-62DR-EB	PZ-62DR-EB

Notes:

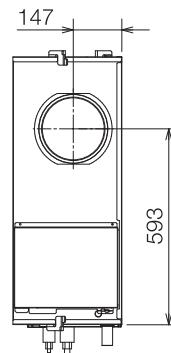
¹ The cooling and heating capacities are based on the rated airflow of fan speed 4 and the following air conditions: Cooling Indoor: 27°CDB/19°CWB Outdoor: 35°CDB/24°CWB. Heating Indoor: 20°CDB/15°CWB Outdoor: 7°CDB/6°CWB

² Performance index is the total capacity divided by the total power consumption of the outdoor unit and Lossnay at the conditions above.

³ For electrical power requirements for Lossnay and Mr Slim outdoor unit, please refer to their respective sections

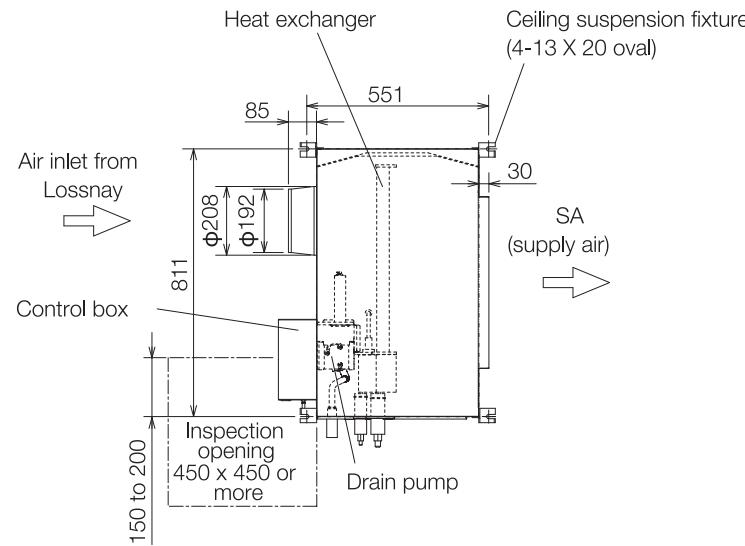
⁴ GUG unit includes a dedicated controller

Left Side View

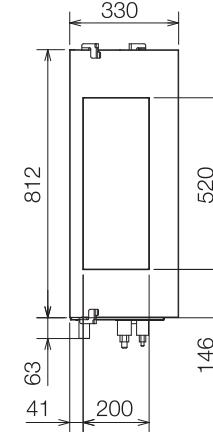


An inspection opening is required for installation and regular maintenance (check) of the drain pump.

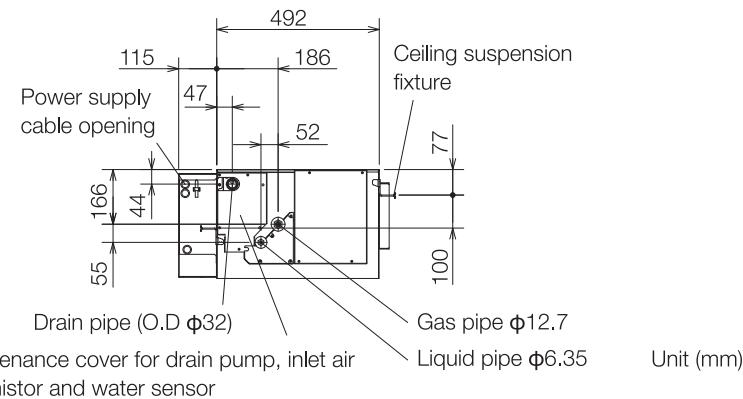
Upper View



Right Side View



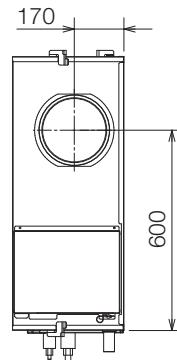
Front View



Product Dimensions

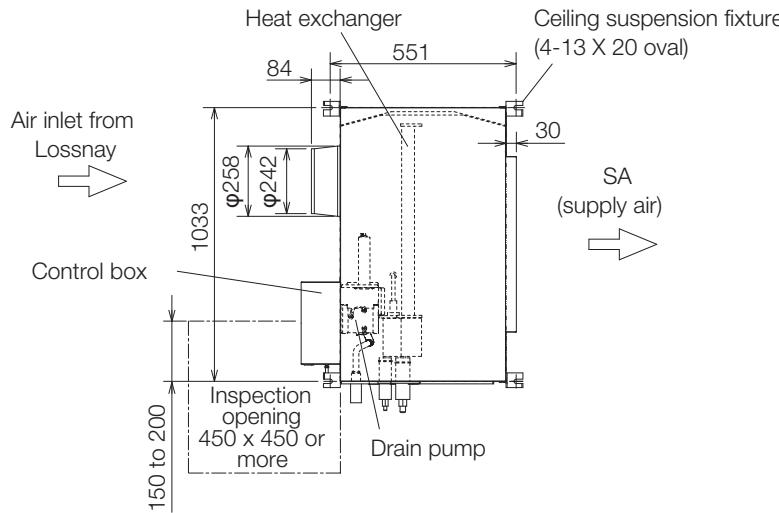
GUG-02SL-E

Left Side View

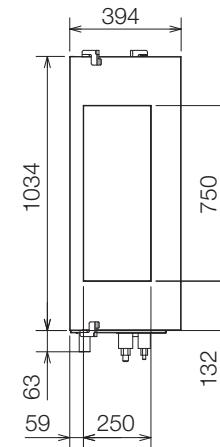


An inspection opening is required for installation and regular maintenance (check) of the drain pump. When SA temp. control is selected, another inspection opening may be required in front of the unit for SA thermistor replacement only when an error occurred on the SA thermistor.

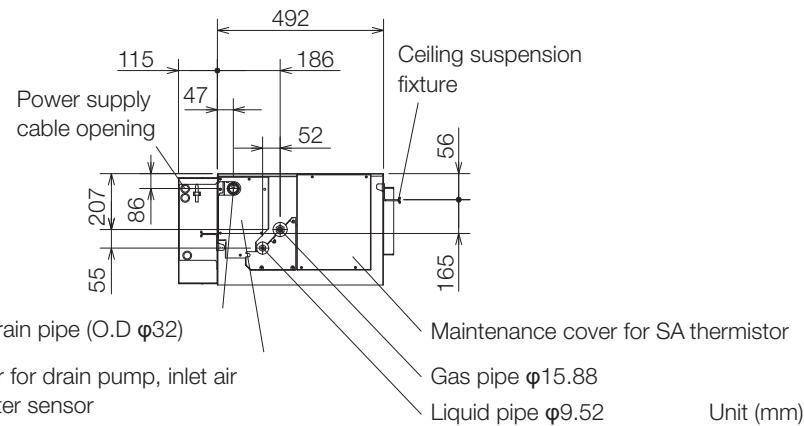
Upper View



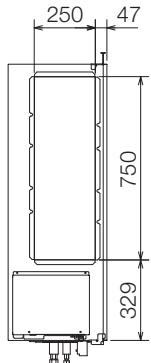
Right Side View



Front View

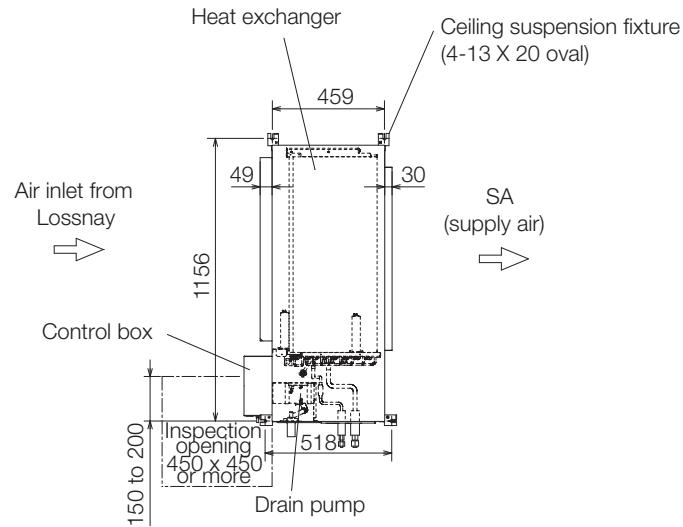


Left Side View

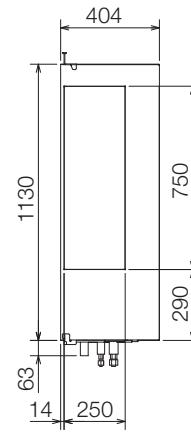


An inspection opening is required for installation and regular maintenance (check) of the drain pump. When SA temp. control is selected, another inspection opening may be required in front of the unit for SA thermistor replacement only when an error occurred on the SA thermistor.

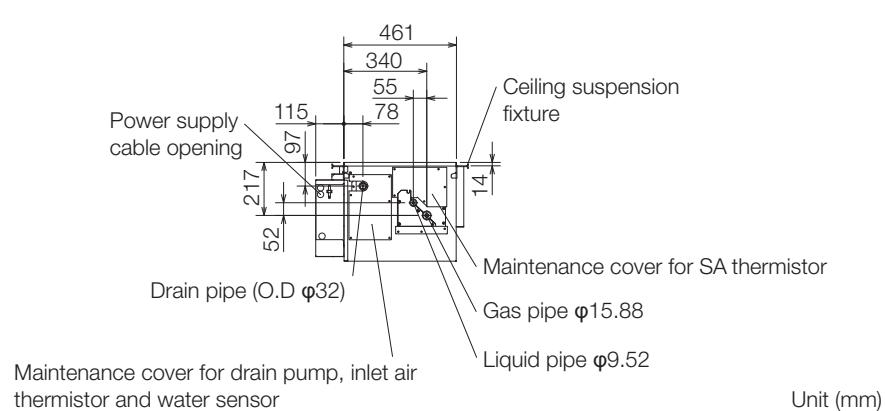
Upper View



Right Side View



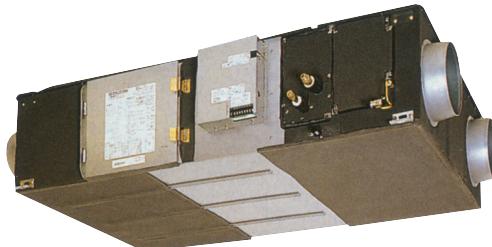
Front View



Unit (mm)

GUF-RD4

Lossnay Outdoor Air Processing Unit



The **GUF-RD4** fresh air processing units combine a Lossnay Mechanical Ventilation with Heat Recovery (MVHR) unit with a DX coil connectable to a VRF system, to heat and cool the supply air delivered to the space. The combination of these technologies provides effective tempering of fresh air entering commercial spaces, taking the load off other cooling/heating services, and eliminating any chance of draughts.

Key Features & Benefits

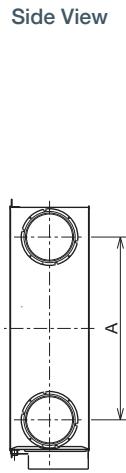
- Smart combination of a Lossnay & City Multi indoor unit, integrated into one model
- Single unit saves on space and installation costs
- Uses heat recovery technology for maximum energy efficiency
- Heating / cooling with no recirculation of extracted air in the space
- Benefits from free cooling when ambient conditions allow



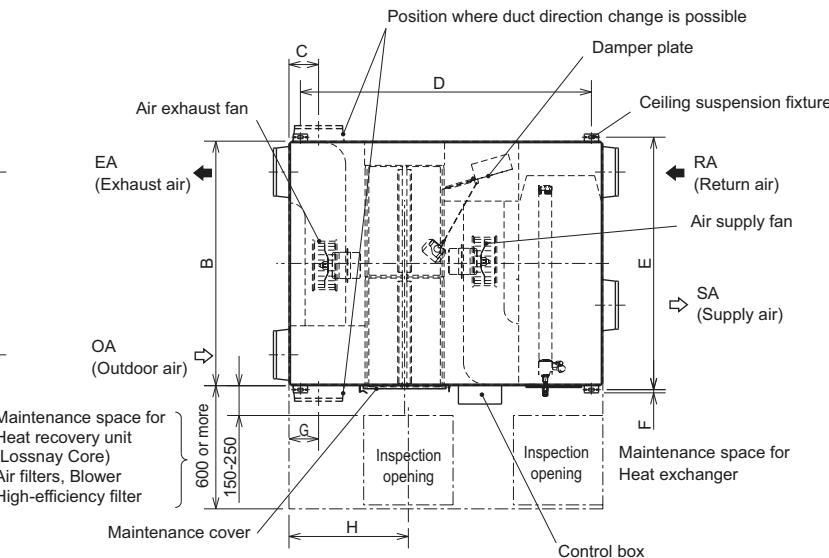
MODEL	GUF-50RD4	GUF-100RD4
CAPACITY (kW)	Heating (nominal)	6.21 (2.04)
	Cooling (nominal)	5.57 (1.94)
	UK Heating (High Performance)	6.42 (2.25)
	UK Heating (COP Priority)	5.93 (2.08)
	UK Total Cooling	5.03 (1.58)
POWER INPUT (kW)	Lo-Hi	0.150 / 0.265
AIRFLOW (m³/h)	Lo-Hi	400-500
EXTERNAL STATIC PRESSURE (Pa)	Lo-Hi	90 - 140
TEMPERATURE EXCHANGE EFFICIENCY (%)	Lo-Hi	80 - 77.5
SOUND PRESSURE LEVEL (dBA)	Lo-Hi	29.5 - 34.5
WEIGHT (kg)		54
DIMENSIONS (mm)	Width	1016
	Depth	1288
	Height	317
ELECTRICAL SUPPLY		220-240v, 50Hz
PHASE		Single
RUNNING CURRENT (A)	Lo-Hi	0.70-1.15
FUSE RATING (BS88) - HRC (A)		6
MAINS CABLE No. Cores		3

Notes: The figures in () indicate the heat recovery at Lossnay core. Total value is capacity of Lossnay core and refrigerant coil. The current and input are based on the above air volume. The sound pressure at the air outlets (45° angle 1.5m ahead) is about 6dBA greater than the indicated value (high speed). Specifications may be subject to change without notice.

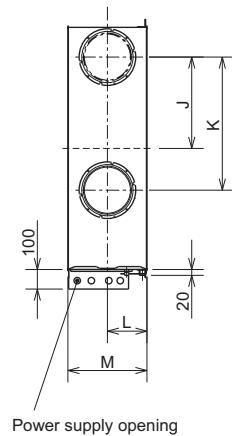
Side View



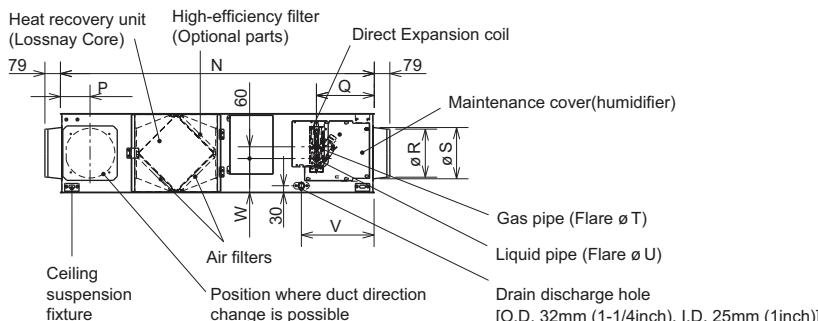
Upper View



Side View



Front View



Model	A	B	C	D	E	F	G	H	J	K	L
GUF-50RD4	745	1,016	124	1,185	1,048	22	124	450	372.5	435	158.5
GUF-100RD4	920	1,231	149	1,465	1,271	16	149	600	460	670	199
Model	M	N	P	Q	R	S	T	U	V	W	Y
GUF-50RD4	317	1,288	124	266	192	208	12.7	6.35	347	99	135
GUF-100RD4	398	1,580	149	280	242	258	15.88	9.52	361	110	169

WizardX-G07 E-OU

Air Handling Unit



R32

The **Climaveneta WizardX Air Handling Units (AHUs)** utilise a combination of Mr Slim R32 Power Inverter heat pump technology, efficient thermal wheel heat recovery technology and an integrated controls system. This integration of technologies results in highly advanced, efficient systems which are easy to install and commission.

Key Features & Benefits

- Mr Slim R32 Power Inverter heat pump technology enables energy efficient tempering of fresh air
- Thermal wheel with hygroscopic coating enables energy efficient heat recovery
- Fully integrated controls and single point power supply as standard for ease of installation
- Easy air flow commissioning with selectable target air volume control
- Class 4 dampers as standard on both supply and return for maximum occupant safety
- Units available in sections with all fixings, wiring and electrical connectors included, reducing install costs and time on site
- Weatherproofed as standard for outdoor installation



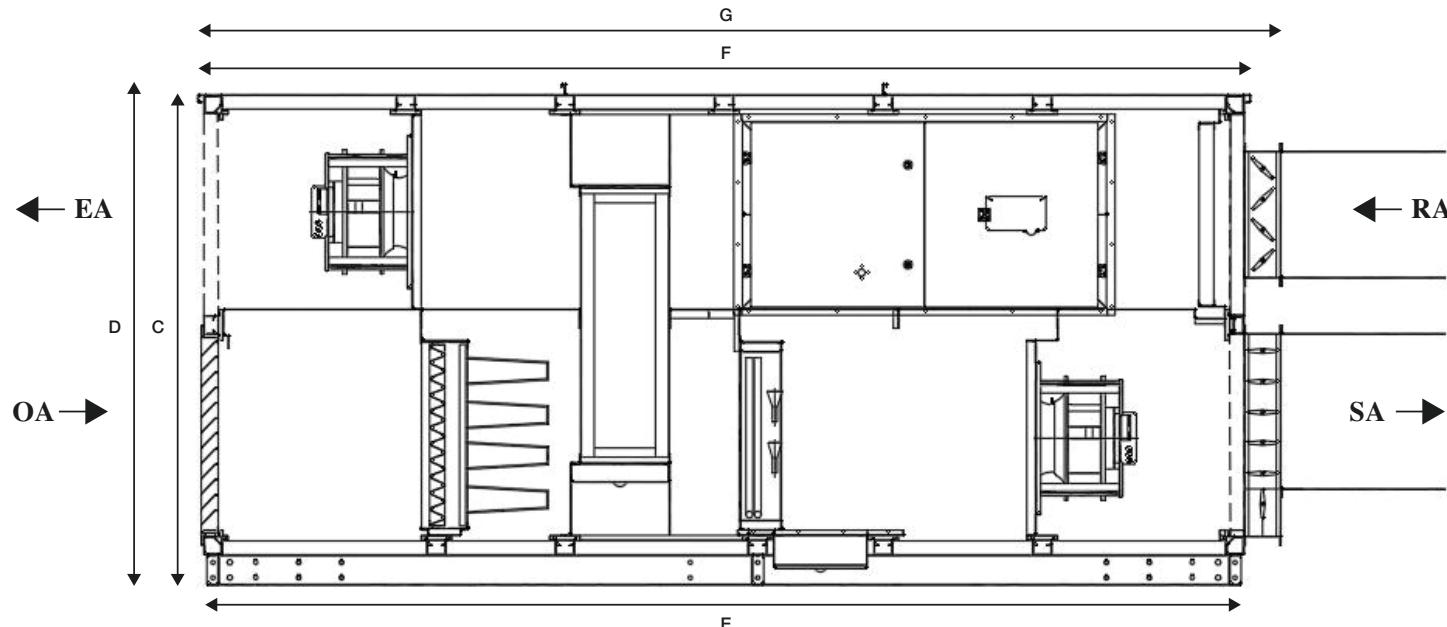
MODEL	WIZARDX-G07 E-OU 3000	WIZARDX-G07 E-OU 5000	WIZARDX-G07 E-OU 7500	WIZARDX-G07 E-OU 10000	WIZARDX-G07 E-OU 12500	WIZARDX-G07 E-OU 15000	WIZARDX-G07 E-OU 20000
RATED AIR VOLUME (m³/s)	0.83	1.39	2.08	2.78	3.47	4.17	5.56
AIR VOLUME RANGE (m³/s)	0.56 - 0.83	0.83 - 1.39	1.39 - 2.08	2.08 - 2.78	2.78 - 3.47	3.47 - 4.17	4.17 - 5.56
EXTERNAL STATIC PRESSURE (Pa)	Standard fans Up-rated fans	300 500	300 500	300 500	300 500	300 500	300 500
COOLING CAPACITY (kW)	DX Coil Capacity Wheel Recovery Capacity	9.41 24	19.1 39.4	23.7 57.7	38.1 77.8	39.7 96.2	47.5 115
HEATING CAPACITY (kW)	DX Coil Capacity Wheel Recovery Capacity	8.57 30.9	16.6 49.9	20.6 73.6	33 98.9	35.2 123	39.7 147
HEAT RECOVERY EFFICIENCY (%)	Total Capacity	33.41	58.5	81.4	115.9	135.9	162.5
SPECIFIC FAN POWER (SFPint) (W/l/s)	79	75.5	74.7	75.1	74.7	74.6	78.9
SOUND POWER LEVEL (dB(A))	Fresh/Outdoor Supply Return Exhaust	69 79 67 77	74 82 74 81	75 85 74 81	78 86 76 84	75 84 75 83	78 88 77 84
UNIT DIMENSIONS (WxDxH) ¹ (mm)	3700x1040x1600	3700x1440x1600	3700x1540x2200	3700x1840x2200	3700x2040x2300	4100x2240x2360	4100x2540x2820
BASE WEIGHT (kg)	877	1039	1197	1409	1668	2030	2400
STANDARD FILTRATION	Fresh air 1st stage Fresh air 2nd stage Return air				ISO Coarse 50% / G4 ISO ePM1 50% / F7 Bag Filter ISO Coarse 50% / G4		
CONSTRUCTION	Profiles Panels Insulation			45mm sandwich panels, galvanised steel sheets with a pre-plastified external finish 60mm aluminium			
"EN1886 ACHIEVED CLASSES (Deflection/Leakage/Filter bypass/Thermal transmittance/Thermal bridging)					D1(M), L3, T2, TB4		
OPERATING RANGES (°C DB)	Target Supply Air Setpoint DX On Coil Cooling DX On Coil Heating				17 - 28 15 - 32 5 - 28		
ELECTRICAL POWER REQUIREMENTS					400VAC / 3ph+Positive Earth / 50Hz		
COMPATIBLE OUTDOOR UNITS	Power Inverter (R32)	2 x PUZ-ZM50	2 x PUZ-ZM100	2 x PUZ-ZM125	2 x PUZ-ZM200	3 x PUZ-ZM140	2 x PUZ-ZM250
						3 x PUZ-ZM250	

Note: Please refer to Mr Slim section for outdoor unit specification data. The specification data is based on the rated conditions below, at the rated air flows.

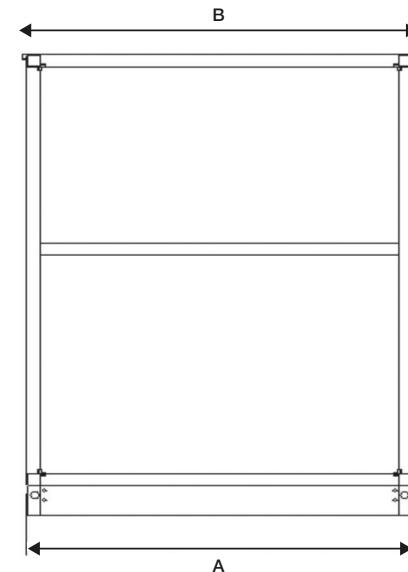
*1 Units in sections as an option will include extra profiles, increasing the weight and dimensions of the final unit.

RATED CONDITIONS	SUMMER			WINTER	
INDOOR		23°C DB	50% RH		21°C DB
OUTDOOR		35°C DB	50% RH		-5°C DB

Front View



Side View



Model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	Standard Weight (kg)
E-OU 3000	1000	1040	1600	1635	3400	3440	3550	877
E-OU 5000	1400	1440	1600	1635	3400	3440	3550	1039
E-OU 7500	1500	1540	2200	2235	3400	3440	3550	1197
E-OU 10000	1800	1840	2200	2235	3400	3440	3550	1409
E-OU 12500	2000	2040	2300	2335	3400	3440	3550	1668
E-OU 15000	2200	2240	2360	2395	3800	3840	3950	2030
E-OU 20000	2500	2540	2820	2855	3800	3840	3950	2400

Ventilation Accessories / Optional Extras

DESCRIPTION	MODEL REF.
Remote Controllers Lossnay Remote Controller for LGH-RVX3-E, LGH-RVXT-E and LGH-RVS-E	PZ-62DR-EB
LGH-RVX3-E Standard replacement filter (Coarse 60%) for LGH-15RVX3-E Standard replacement filter (Coarse 60%) for LGH-25RVX3-E Standard replacement filter (Coarse 60%) for LGH-35RVX3-E Standard replacement filter (Coarse 60%) for LGH-50RVX3-E Standard replacement filter (Coarse 60%) for LGH-65RVX3-E Standard replacement filter (Coarse 60%) for LGH-80RVX3-E / LGH-160RVX3-E (2 sets required) Standard replacement filter (Coarse 60%) for LGH-100RVX3-E / LGH-200RVX3-E (2 sets required) ePM ₁₀ , 75% grade filter for LGH-15RVX3-E ePM ₁₀ , 75% grade filter for LGH-25RVX3-E ePM ₁₀ , 75% grade filter for LGH-35RVX3-E ePM ₁₀ , 75% grade filter for LGH-50RVX3-E ePM ₁₀ , 75% grade filter for LGH-65RVX3-E ePM ₁₀ , 75% grade filter for LGH-80RVX3-E / LGH-160RVX3-E (2 sets required) ePM ₁₀ , 75% grade filter for LGH-100RVX3-E / LGH-200RVX3-E (2 sets required) Wall mounted plug and play CO ₂ sensor with traffic light signals for LGH-RVX3-E Duct mounted plug and play CO ₂ sensor for LGH-RVX3-E Vertical mounting bracket for LGH-15-50RVX3-E Vertical mounting bracket for LGH-65-100RVX3-E	PZ-15RF3-E PZ-25RF3-E PZ-35RF3-E PZ-50RF3-E PZ-65RF3-E PZ-80RF3-E PZ-100RF3-E PZ-15RFP3-E PZ-25RFP3-E PZ-35RFP3-E PZ-50RFP3-E PZ-65RFP3-E PZ-80RFP3-E PZ-100RFP3-E PZ-70CSW-E PZ-70CSD-E PZ-1VS-E PZ-2VS-E
LGH-RVXT-E ePM ₁₀ 75% / M6 filter for LGH-RVXT-E ePM ₁₀ 65% / F8 filter for LGH-RVXT-E	PZ-M6RTFM-E PZ-F8RTFM-E
LGH-RVS-E Replacement Coarse 35% / G3 filter for LGH-50RVS-E Replacement Coarse 35% / G3 filter for LGH-80RVS-E Replacement Coarse 35% / G3 filter for LGH-100RVS-E ePM ₁₀ 80% / M6 filter for LGH-50RVS-E ePM ₁₀ 80% / M6 filter for LGH-80RVS-E ePM ₁₀ 80% / M6 filter for LGH-100RVS-E ePM ₁₀ , 65% / F8 filter for LGH-50RVS-E ePM ₁₀ , 65% / F8 filter for LGH-80RVS-E ePM ₁₀ , 65% / F8 filter for LGH-100RVS-E Wall mounted plug and play CO ₂ sensor with traffic light signals for LGH-RVS-E Duct mounted plug and play CO ₂ sensor for LGH-RVS-E	PZ-S50RF-E PZ-S80RF-E PZ-S100RF-E PZ-S50RPF-E PZ-S80RPF-E PZ-S100RPF-E PZ-S50RFH-E PZ-S80RFH-E PZ-S100RFH-E PZ-70CSW-E PZ-70CSD-E
VL-100EU₅-E ePM ₁₀ 70% / M6 filter for VL-100EU ₅ -E Extension pipe for VL-100EU ₅ -E Extension pipe joint for VL-100EU ₅ -E	P-100HF5-E P-100P-E P-100PJ-E
VL-CZPVU-E Replacement Coarse 55% / G3 filter for VL-250CZPVU-E Replacement Coarse 55% / G3 filter for VL-350CZPVU-E Replacement Coarse 55% / G3 filter for VL-500CZPVU-E ePM _{2.5} 50% / M6 filter for VL-250CZPVU-E ePM _{2.5} 50% / M6 filter for VL-350CZPVU-E ePM _{2.5} 50% / M6 filter for VL-500CZPVU-E NOx 90% supply air filter for VL-250CZPVU-E NOx 90% supply air filter for VL-350CZPVU-E NOx 90% supply air filter for VL-500CZPVU-E Acoustic top box for VL-250CZPVU-E Acoustic top box for VL-350CZPVU-E Acoustic top box for VL-500CZPVU-E Remote controller cover and 1m cable with noise filter for VL-CZPVU-E	P-250F-E P-350F-E P-500F-E P-250PF-E P-350PF-E P-500PF-E P-250NF-E P-350NF-E P-500NF-E P-250SB-E P-350SB-E P-500SB-E P-RCC-E
Weather Proof Housings Lossnay weather proof housings are also available for LGH-RVX3-E	

Ventilation Accessories / Optional Extras

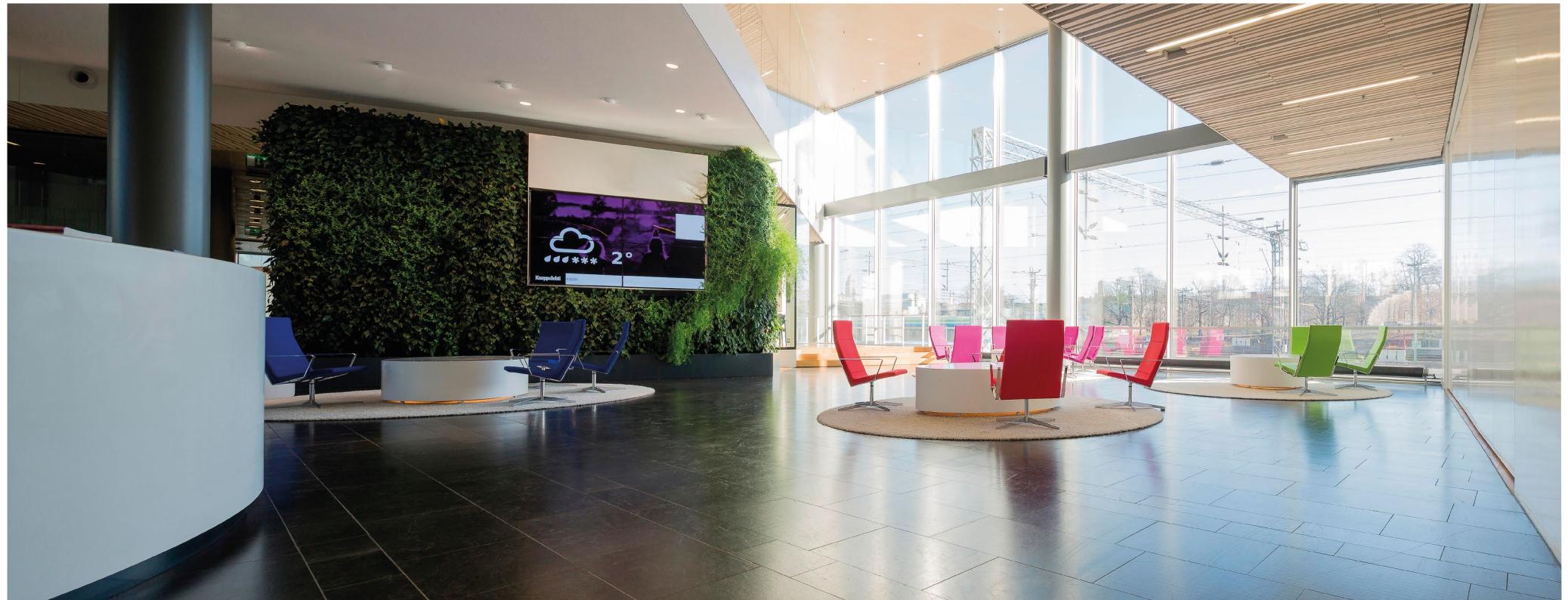
DESCRIPTION	MODEL REF.
WizardX-G07 E-OU	
Fans	
High static pressure supply fan (500 Pa)	B503
High static pressure exhaust fan (500 Pa)	B513
Two speed fan via VFC	B631
Variable airflow with CO ₂ probe	B611
Dampers	
Fresh Air (Class 4)	B551
Exhaust Air (Class 4)	B581
Pre/Post Heating	
Pre-heating electric coil	B531
Post-heating electrical coil	1333
Pre-heating water coil	B532
Post-heating water coil	1331
Filters	
Bag Filters F9 ePM1 85%	2521A
Activated charcoal filters F7	2529
Energy Efficiency	
Variable speed thermal wheel	B521
Connectivity and Integration	
Modbus connection for BEMS	4181
Bacnet TCP-IP connection for BEMS	4185
Connection to AE-200E for on/off and general alarm monitoring	PAC-YG66DCA
Remote keyboard - wiring up to 200m	C9261063
Remote keyboard - wiring up to 500m	C9261064
Structural	
Weather protection grille on fresh air intake	B621
Sub divided delivery into 5 sections* ¹	B482 (& B542)
Left handed configuration	2963

Notes: *1 All electrical wiring is included with suitable plug connectors for mistake-proof assembly. Each section is structural with extra profiles and panels, therefore total assembled AHU dimensions may be increased. Size 15000 is sub divided into 3 sections as standard.



Controls

Control Solutions



culture hub
newsroom →
the observer
sport →

lifts
toilets



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Control Solutions

The Importance of Controls

Time to take control

Operating an air conditioning, ventilation or heating system without effective controls can be costly in more ways than one. Not only are you likely to face higher monthly energy bills, it will also lead to an increase in carbon emissions - something that will become ever more important as businesses strive to keep up with tougher environmental legislation.

The right controls take building performance to the next level. With them, building systems become more responsive, easier to automate, monitor and maintain, and less costly to operate in the long-term.

The right controls can deliver a cost-effective solution that helps manage, monitor and report on the performance of all building services systems.

In order to achieve the UK's national objective of net-zero carbon emissions by 2050, commercial buildings will have to become much more energy efficient, and building controls will have a significant part in ensuring that happens.

Control technology is now widely available for buildings of all sizes, so it is possible to access the benefits whatever the scale or scope of your project.



Mitsubishi Electric technology

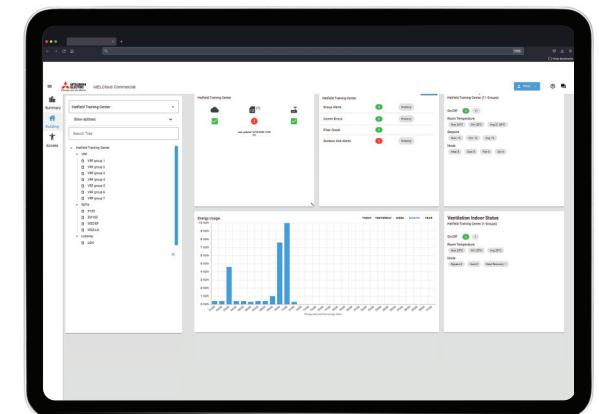
Mitsubishi Electric has been dedicated to producing energy efficient technology for over ninety years. Controls are an essential part of that. Mitsubishi Electric has long heritage in factory automation where the company leads the field in providing controls that enhance productivity, efficiency and energy use.

We have taken this extensive knowledge and experience and transferred it to the heart of our building services equipment.

We were also one of the first manufacturers to provide an open gateway to our products to make integration easier for our customers. This enables direct connection of equipment into many common building energy management system (BEMS) platforms.

Mitsubishi Electric now offer the MELCloud platform to help you control, monitor and service your HVAC equipment. This includes performance and energy monitoring, as well as remote management of one or multiple systems, in order to save energy, cost and downtime.

From a simple hand-held controller to a centralised BEMS, Mitsubishi Electric puts its customers in control.



The European Standard EN 15232

“Energy Performance of Buildings - Impact of Building Automation, Controls and Building Management”

was compiled in conjunction with the Europe-wide implementation of the directive for energy efficiency in buildings (Energy Performance of Buildings Directive EPBD) 2002/91/EG.

The Standard is incorporated into UK law and describes methods for evaluating the influence of building automation and technical building management on the energy consumption of buildings.

Four efficiency classes A to D have been introduced to this purpose. After a building has been equipped with building automation and control systems, it will be assigned one of these classes. The potential savings for thermal and electrical energy can be calculated for each class based on the building type and building purpose. The values of the energy class C are used as the reference for comparing the efficiency.

The diagram on the right, shows the differences in energy consumption for three building types in the energy efficiency classes A, B and D relative to the basis values in rating C. For example, by using class A, 30 % of the thermal energy can be saved in offices.

BS EN 15232: Function list and assignment to energy performance classes

	Heating / Cooling Control	Ventilation / Air Conditioning Control	Lighting	Sun Protection
A	<ul style="list-style-type: none"> <input type="checkbox"/> Individual room control with communication between controllers <input type="checkbox"/> Indoor temperature control of distribution network water temperature <input type="checkbox"/> Total interlock between heating and cooling control 	<ul style="list-style-type: none"> <input type="checkbox"/> Demand or presence dependent air flow control at room level <input type="checkbox"/> Variable set point with load dependant compensation of supply temperature control <input type="checkbox"/> Room or exhaust or supply air humidity control 	<ul style="list-style-type: none"> <input type="checkbox"/> Automatic daylight control <input type="checkbox"/> Automatic occupancy detection manual on / auto off <input type="checkbox"/> Automatic occupancy detection manual on / dimmed <input type="checkbox"/> Automatic occupancy detection auto on / auto off <input type="checkbox"/> Automatic occupancy detection auto on / dimmed 	<ul style="list-style-type: none"> <input type="checkbox"/> Combined light / blind / HVAC control
B	<ul style="list-style-type: none"> <input type="checkbox"/> Individual room control with communication between controllers <input type="checkbox"/> Indoor temperature control of distribution network water temperature <input type="checkbox"/> Partial interlock between heating and cooling control (dependent on HVAC system) 	<ul style="list-style-type: none"> <input type="checkbox"/> Time dependent air flow control at room level <input type="checkbox"/> Variable set point with outdoor temperature compensation of supply temperature control <input type="checkbox"/> Room or exhaust or supply air humidity control 	<ul style="list-style-type: none"> <input type="checkbox"/> Manual daylight control <input type="checkbox"/> Automatic occupancy detection manual on / auto off <input type="checkbox"/> Automatic occupancy detection manual on / dimmed <input type="checkbox"/> Automatic occupancy detection auto on / auto off <input type="checkbox"/> Automatic occupancy detection auto on / dimmed 	<ul style="list-style-type: none"> <input type="checkbox"/> Motorised operation with automatic blind control
C	<ul style="list-style-type: none"> <input type="checkbox"/> Individual room control with communication between controllers <input type="checkbox"/> Indoor temperature control of distribution network water temperature <input type="checkbox"/> Partial interlock between heating and cooling control (dependent on HVAC system) 	<ul style="list-style-type: none"> <input type="checkbox"/> Time dependent air flow control at room level <input type="checkbox"/> Constant set point of supply temperature control <input type="checkbox"/> Supply air humidity limitation 	<ul style="list-style-type: none"> <input type="checkbox"/> Manual daylight control <input type="checkbox"/> Manual on / off switch + additional sweeping extinction signal <input type="checkbox"/> Manual on / off switch 	<ul style="list-style-type: none"> <input type="checkbox"/> Motorised operation with manual blind control
D	<ul style="list-style-type: none"> <input type="checkbox"/> No automatic control <input type="checkbox"/> No control of distribution network water temperature <input type="checkbox"/> No interlock between heating and cooling control 	<ul style="list-style-type: none"> <input type="checkbox"/> No air flow control at room level <input type="checkbox"/> No supply temperature control <input type="checkbox"/> No air humidity control 	<ul style="list-style-type: none"> <input type="checkbox"/> Manual daylight control <input type="checkbox"/> Manual on/off switch + additional sweeping extinction signal <input type="checkbox"/> Manual on/off switch 	<ul style="list-style-type: none"> <input type="checkbox"/> Manual operation for blinds

Section from table 1 of the BSEN 15232:2007 [D]

Building Automation and Control (BAC) efficiency classes to EN 15232

	Efficiency factor for thermal energy			Efficiency factor for electrical energy		
	Office	School	Hotel	Office	School	Hotel
A High energy performance building automation and control system (BACS) and technical building management (TBM)	0.70	0.80	0.68	0.87	0.86	0.90
B Advanced BACS and TBM	0.80	0.88	0.85	0.93	0.93	0.95
C Standard BACS	1	1	1	1	1	1
D Non energy efficient BACS	1.51	1.20	1.31	1.10	1.07	1.07

Control Solutions

The Importance of Controls

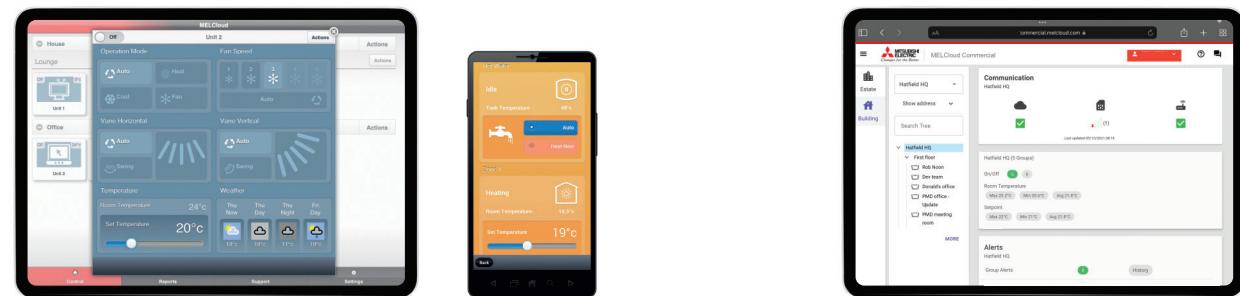
The Internet of Things

The Internet of Things (or IoT) describes the revolution already under way, with a growing number of internet-enabled devices that can network and communicate with each other and with other web-enabled devices.

Mitsubishi Electric is at the forefront of this revolution and all our products are now connectable to the internet using the following solutions¹.



Features	MELCloud	MELCloud Commercial
----------	----------	---------------------



Connect to	Wi-Fi	Ethernet or Cellular
Compatibility	Air Conditioning, Ventilation and Heating	Air Conditioning and Ventilation
Third party control	x	✓ (with option PAC-YG60/63MCA/66DCA)
SIM card provided	x	✓ (eSIM)
Smartphone application	✓	✓
Tablet application	✓	✓
Web portal	✓	✓

¹*1 VL-100 is not connectable to the Internet

Which Controls Product for Which Application?

Good controls will benefit any application. With a wide portfolio of control products, it is important to select the right control solution for each application.



APPLICATION	SIZE	TYPICAL PRODUCT INSTALLED	CONTROL SOLUTIONS	CASE STUDY
OFFICE	SMALL	City Multi VRF Systems Mr Slim Split-Systems Mr Slim IT Room Applications	PAR-41MAA or AE-200E-WEB USER AE-200E or AT-50B PAC-YG66DCA or PAC-YG60MCA MELCloud Commercial MELCOBEMS SIP+	Wholesaler PACAIR uses an AE-200E Centralised Controller to provide complete control of the office air conditioning. The 10.4" touch screen controller and easy to use interface gives PACAIR the ability to set up a weekly time schedule, as well as offering a host of energy saving features.
	LARGE	City Multi VRF Systems City Multi Air Curtains City Multi PWFY Heat Pumps	PAR-41MAA or AE-200E-WEB USER AE-200E or AT-50B MELCloud Commercial MELCOBEMS SIP+	Mitsubishi Electric's Hatfield headquarters has been updated to new AE-200E/EW-50E HTML5 controls to monitor and control all of the air conditioning equipment across 3 floors and 2 wings. This enables the system to operate as efficiently as possible, incorporating easy to use controls and allows for fully programmable scheduling that accommodates flexible working patterns.
HOTEL	SMALL	City Multi VRF Systems	PAR-CT01MAA-S/PB AE-200E MELCloud Commercial MELCOBEMS SIP+	The luxury 4-star Kingsmills Hotel provides a chic and contemporary venue for discerning Highlands travellers and focuses on relaxation, revitalisation and calm. The centralised controller delivers the efficiency and flexibility that both the hotel and its guests need, with air conditioning integrated with the room key card system combined with simple to use room controllers.
	LARGE	City Multi VRF Systems	PAR-CT01MAA-S/PB AE-200E MELCOTEL2™ MELCloud Commercial MELCOBEMS SIP+	The Premier Inn Hotel, Leicester uses the MELCOTEL2™ control interface to efficiently and effectively control air conditioning that provides heating and cooling to 135 bedrooms, the bar, restaurant and back offices. A variety of control strategies were implemented and monitored and analysed, resulting in a 30% decrease in average monthly system running costs and CO ₂ emissions.
RETAIL	SMALL	Mr Slim Split-System Mr Slim Air Curtains	MELCORETAIL MINI MELCloud Commercial MELCOBEMS SIP+	Costa Coffee was one of the first to make use of the MELCORETAIL MINI to capitalise on its energy saving feature whilst ensuring that customers and staff were comfortable in the overall coffee shop environment. Across a year of monitoring the MELCORETAIL MINI helped achieve a 20% reduction in energy use, giving it a payback period of less than 2 months.
	LARGE	City Multi VRF Systems City Multi Air Curtains	MELCloud Commercial MELCOBEMS SIP+	A pilot site for a major high street retail chain has demonstrated how connecting MELCloud Commercial to air conditioning can highlight ways of reducing energy or identify unnecessary use. Significant savings throughout the store were made by employing MELCloud Commercial, providing a consistent return on investment on a monthly basis.
LEISURE	SMALL	Mr Slim Split-System Mr Slim Air Curtains	MELCOBEMS MINI (A1M+) MELCloud Commercial MELCOBEMS SIP+	The Castle golf course at St Andrews need a heating and cooling system that was as controllable and efficient as possible. The M2M interface controls and monitors the air conditioning to make sure it maximises energy saving, whilst allowing for continuous fine-tuning according to the golf clubs needs.
	LARGE	Mr Slim Split-System Mr Slim Air Curtains City Multi VRF Systems City Multi Air Curtains	MELCOBEMS MELCloud Commercial MELCOBEMS SIP+	Fitness First uses monitoring BEMS to communicate with the air conditioning using Modbus, across its UK network. Dedicated Modbus Interfaces offer complete monitoring and control of the system and highlights the flexibility and potential for reducing running costs that our control systems have when working in conjunction with third party BEMS.
RESIDENTIAL	SMALL	Ecodan	MELCloud	A WW2 veteran has shown the way to a sustainable future with the installation of a hybrid Ecodan air source heat pump to work alongside his existing gas boiler. The hybrid system is designed specifically to work in conjunction with conventional boilers and the MELCloud Wi-Fi system also allows the heat pump to be monitored and controlled remotely.
	LARGE	Ecodan	MELCloud AE-200E	The renewable heating system for St Mungo's in Lewisham needs to cope with different heating loads and deal effectively with regular changes in tenancy and occupied hours. It also had to offer tenants the ability to alter the temperature of their individual flats, whilst allowing the charity full central control of the system.

Which Controls Product for Which Function?

With a wide portfolio of control products, many functions are available.
It is important to select the right control solution for each function.

FUNCTION	SYSTEM SIZE					NOTES
	OPTION 1	OPTION 2	OPTION 3	OPTION 4	OPTION 5	
Remote On/Off or fire alarm	PAC-SA89TA	KTR-53A	MELCORETAIL MINI	AT-50B and PAC-YT51HAA	AE-200E and PAC-YG10HA	On/Off remote controller button lock except KTR-53A
Monitor run and faults	PAC-SA88HA	MELCORETAIL MINI	AT-50B and PAC-YT51HAA	AE-200E / EW-50E and PAC-YG10HA	-	Relays or power supply may be required
Window interlocking	PAC-SA89TA	KTR-53A	-	-	-	Controller will be centrally controlled when window opened
Setpoint limit	PAR-41MAA	PAR-U02MEDA	AT-50B	AE-200E / EW-50E	AE-200E	Available in Heat, Cool and Auto modes
Weekly timer	PAR-41MAA PAR-U02MEDA	AT-50B	AE-200E / EW-50E	AE-200E	-	Setpoint, On/Off can be reset
Night set back	KTR-53A	PAR-41MAA PAR-U02MEDA	AE-200E / EW-50E / AT-50B	AE-200E	-	KTR-53A requires thermostat, time switch, 12/24v AC/DC power supply
Energy monitoring	AE-200E / EW-50E Total Energy Measurement	AE-200E / EW-50E PAC-YG60MCA Total Energy Management	AE-200E and EW-50E Energy Apportioning	AE-200E / EW-50E PAC-YG60MCA Energy Apportioning	-	Different options for each choice. Meters required
Load shedding	EW-50E and PAC-YG60MCA	AE-200E and PAC-YG60MCA	-	-	-	Energy meters required
Trend logging	EW-50E and PAC-YG60MCA	AE-200E	-	-	-	CSV data available on a spreadsheet

Notes: The PAC-SA89TA is also known as a 3 wire adaptor and the PAC-SA88HA is also known as a 5 wire adaptor. Disclaimer: These options are for guidance only.

Which Controls Product for Which Function?

With a wide portfolio of control products, many functions are available.
It is important to select the right control solution for each function.

FUNCTION	SYSTEM SIZE			NOTES
	OPTION 1	OPTION 2	OPTION 3	
Night mode	PAC-SA89TA	EW-50E	AE-200E	PAC-SA89TA requires a third party timer
Ambient tracking	AE-200E and PAC-YG63MCA	MELCOBEMS MINI (A1M+)	AE-200E	Option 1 is only available in cooling mode
Key card interlock for hotel	AE-200E and PAC-SA89TA	AE-200E / EW-50E, MELCOTEL TM and PAC-SA89TA	-	Volt free contact for key card normally open
Window sensor interlock for hotel	AE-200E and PAC-SA89TA	AE-200E / EW-50E, MELCOTEL TM and PAC-SA89TA	-	Volt free contact for window sensor normally closed
2 setpoints (1 for cool and 1 for heat)	-	MELCOMMS MINI	AE-200E	For instance, 19°C heat and 23°C cool. Fan only in between
Duty / Standby	PAR-41MAA	MELCOMMS MINI MELCOBEMS MINI (A1M+)	-	Backup, rotate, join in and high temperature function
A/C faults via Modbus and BACnet	MELCOBEMS MINI (A1M+)	-	-	SIM card not supplied
Optimised start	AE-200E	-	-	-
Mini BEMS	MELCOBEMS MINI (A1M+)	AE-200E	-	-
Occupancy sensor	PAR-U02MEDA	-	-	-

Notes: The PAC-SA89TA is also known as a 3 wire adaptor and the PAC-SA88HA is also known as a 5 wire adaptor. Disclaimer: These options are for guidance only.

Centralised Controllers

A wide range of centralised controllers are available to monitor and control our equipment efficiently. Some of our centralised controllers can also be used to monitor and control third party equipment.

Key Features & Benefits

AT-50B



- 5" basic touch screen
- Centralised controller
- Monitor and control up to 50 indoor units
- Monitor and control general equipment

AE-200E



- 10.4" full function touch screen
- Centralised controller
- Monitor and control up to 50 indoor units (or up to 200 indoor units with EW-50Es)
- Monitor and control general equipment
- Energy monitoring, load shedding
- Web based controller
- Onboard HTML5 web browser
- Optional direct BACnet connection

EW-50E



- Extends capability of AE-200E
- Web based controller
- Monitor and control up to 50 indoor units
- Monitor and control general equipment
- Energy monitoring, load shedding
- Onboard HTML5 web browser
- Optional direct BACnet connection

AE-200E-WEB USER



- Available as an option
- 200 user accounts per PIN CODE
- No installation cost
- Centralised controller required
- Very simple to use

PAC-SC51KUA



- M-NET power supply

PAC-SF46EPA



- M-NET transmission booster

Centralised Controllers

Technical Specification

CENTRALISED CONTROLLERS	AT-50B	AE-200E	KS10-RFFI	PAC-YG82TB
Description	5" Touch Screen Controller	10.4" Touch Screen Controller	AE-200E Interface	AE-200E Plastic Wall Mounted Box
Connect to	M-NET Network	M-NET Network	AE-200E and EW-50E	-
Max Number of Units	50	50 and 4 Pulse Meters	-	-
Compatibility	M Series, Mr Slim, City Multi and Lossnay	M Series, Mr Slim, City Multi, Lossnay, e-Series, MEHITS Chillers* ¹ and Ecodan QAHV/CAHV/CRHV	-	AE-200E
Power Supply	Via PAC-SC51KUA	220-240v, 50Hz	220-240v, 50Hz	-
Dimensions (mm) (WxDxH)	180 x 30 x 120	283 x 64 x 199	130 x 30 x 80	282 x 77 x 198
Control	On/Off	✓	✓	-
	Mode	✓	✓	-
	Setpoint	✓	✓	-
	Fan Speed	✓	✓	-
	Air Direction	✓	✓	-
	Permit/Prohibit	✓	✓	-
	Filter Sign	✓	✓	-
Monitor	On/Off	✓	✓	✓
	Mode	✓	✓	-
	Setpoint	✓	✓	-
	Fan Speed	✓	✓	-
	Air Direction	✓	✓	-
	Permit/Prohibit	✓	✓	-
	Filter Sign	✓	✓	-
	Fault Codes	✓	✓	✓
	Room Temperature	✓	✓	-
Weekly Schedule	✓	✓	-	-
Annual Schedule	x	✓	-	-
Night Set Back	✓	✓	-	-
Web Pages	x	✓	-	-
Optimised Start	x	✓	-	-
Automatic Setpoint Adjustment	x	✓	-	-
Load Shedding	x	✓	-	-
Occupied / Unoccupied Settings Reset	x	x	-	-
Remote Monitoring with M2M	x	✓	-	-
Simple Energy Monitoring	x	✓	-	-
Advanced Energy Monitoring	x	✓	-	-

Notes: *1 MEHTS adaptor required

AE-200E demonstration website: http://dl.mitsubishielectric.co.jp/dl/lqa/wink/wink_doc/contents/doc/acr/menu/ae200/en/

PIN CODES:

AE-200E-ENERGY

AE-200E-BACNET

AE-200E-WEB USER

Centralised Controllers

Technical Specification

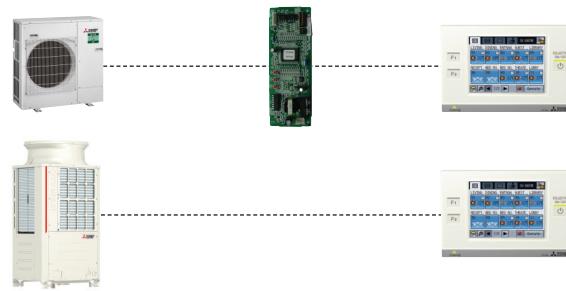
CENTRALISED CONTROLLERS	EW-50E	AE-200E-WEB USER	PAC-SC51KUA	PAC-SF46EPA
				
Description	Web Interface and AE-200E expansion controller	AE-200E Web User Pin Code	M-NET Power Supply	M-NET Transmission Booster
Connect to	M-NET Network	AE-200E and EW-50E	M-NET Network	M-NET Network
Max Number of Units	50 and 4 Pulse Meters	200	50	-
Compatibility	M Series, Mr Slim, City Multi, Lossnay, e-Series, MEHITS Chillers ^{*1} and Ecoden QAHV/CAHV/CRHV	AE-200E and EW-50E	AT-50B, EW-50E and AE-200E	M Series, Mr Slim and City Multi
Power Supply	220-240v, 50Hz	-	220-240v, 50Hz	220-240v, 50Hz
Dimensions (mm) (WxDxH)	172 x 92 x 253	-	271 x 72 x 169	360 x 59 x 340
Control	On/Off	✓	✓	-
	Mode	✓	✓	-
	Setpoint	✓	✓	-
	Fan Speed	✓	✓	-
	Air Direction	✓	✓	-
	Permit/Prohibit	✓	✓	-
	Filter Sign	✓	x	-
Monitor	On/Off	✓	✓	-
	Mode	✓	✓	-
	Setpoint	✓	✓	-
	Fan Speed	✓	✓	-
	Air Direction	✓	✓	-
	Permit/Prohibit	✓	✓	-
	Filter Sign	✓	✓	-
	Fault Codes	✓	✓	-
	Room Temperature	✓	✓	-
	Weekly Schedule	✓	✓	-
Programmable	Annual Schedule	✓	✓	-
	Night Set Back	✓	x	-
	Web Pages	✓	✓	-
	Optimised Start	✓	x	-
	Automatic Setpoint Adjustment	✓	x	-
	Load Shedding	✓	x	-
	Occupied / Unoccupied Settings Reset	x	x	-
	Remote Monitoring with M2M	✓	x	-
	Simple Energy Monitoring	✓	✓	-
	Advanced Energy Monitoring	✓	✓	-

PIN CODES:

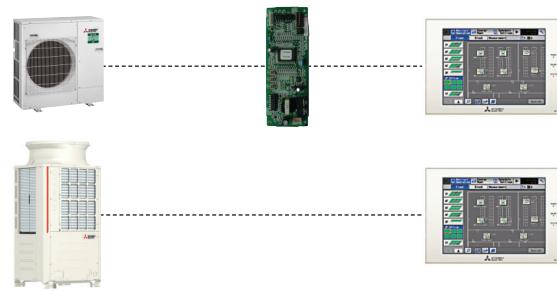
AE-200E-ENERGY
AE-200E-BACNET
AE-200E-WEB USER

Notes: *1 MEHITS adaptor required

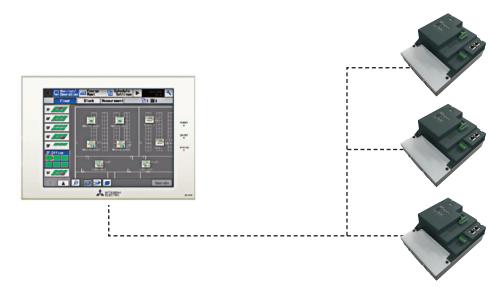
System Diagram AT-50B



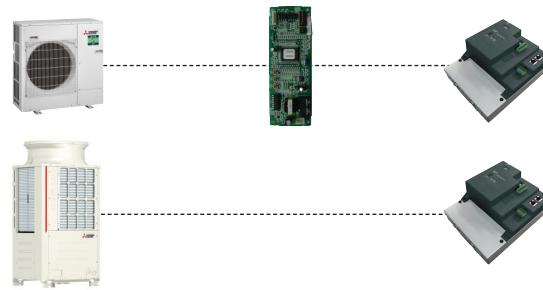
System Diagram AE-200E



System Diagram EW-50E



System Diagram EW-50E



System Diagram PAC-SC51KUA



System Diagram PAC-SF46EPA

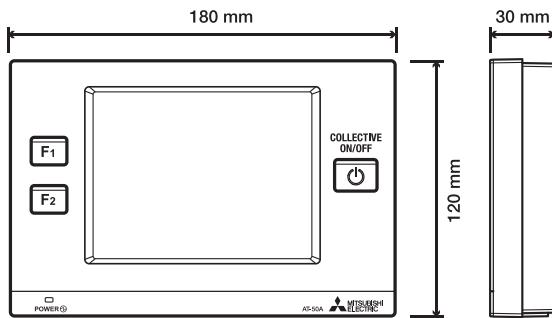


System Diagram AE-200E-WEB USER



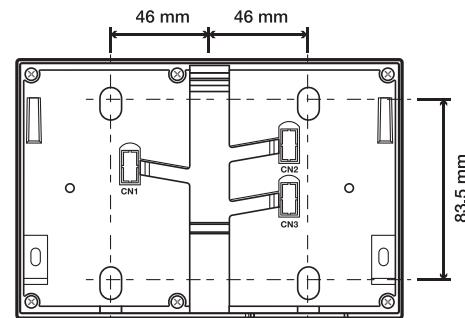
Product Dimensions**AT-50B**

Front View

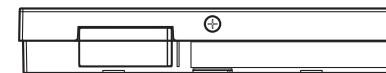


Side View

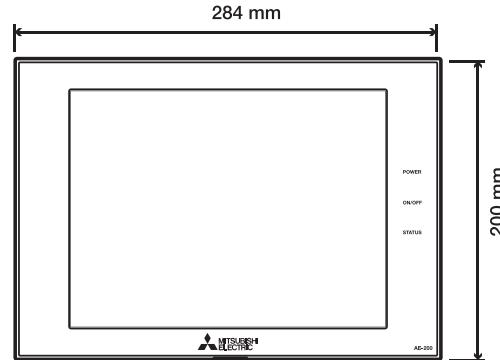
Back View



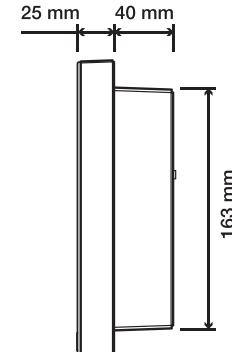
Top View

**Product Dimensions****AE-200E**

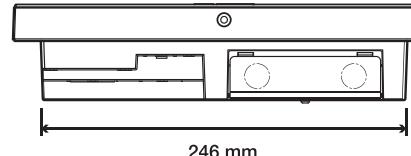
Front View



Side View



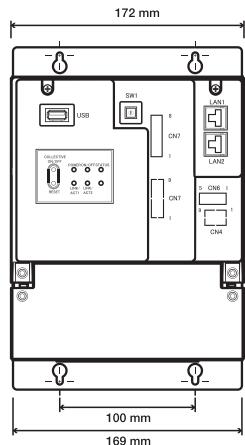
Top View



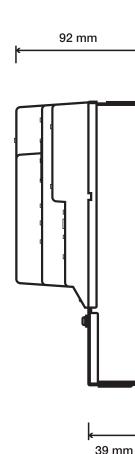
Product Dimensions

EW-50E

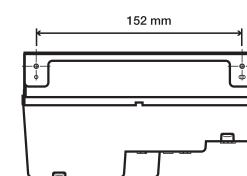
Front View



Side View



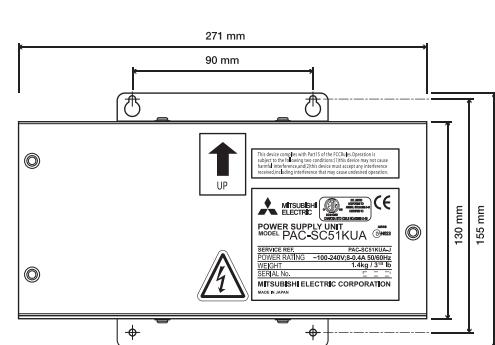
Top View



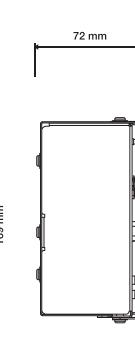
Product Dimensions

PAC-SC51KUA

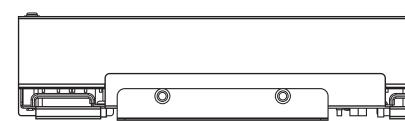
Front View



Side View



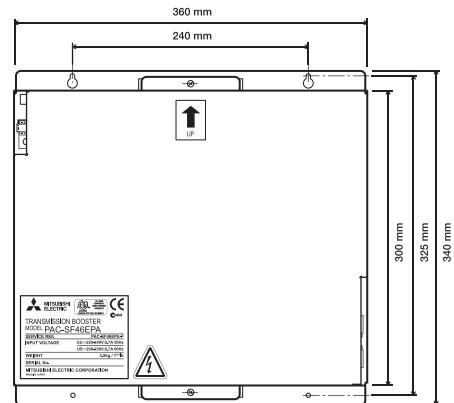
Top View



Product Dimensions

PAC-SF46EPA

Front View



Side View



Top View



Remote Controllers

From a simplified controller perfect for hotel applications to a full backlight touch screen controller, we have the right remote controller to choose from.

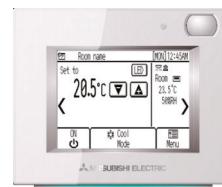
Key Features & Benefits

PAR-CT01MAA-SB / PAR-CT01MAA-PB



- Simple to use
- Touch screen
- 180 colour screen
- 180 colour font display
- Backlight
- Fully configurable via smartphone App
- Customisable display
- Ability to display customer logos

PAR-U02MEDA



- Touch screen M-Net Controller
- Night set back, scheduling, setpoint limitation
- Built in occupancy/brightness sensor
- Backlight
- 0.5°C Set Point adjustment
- Dual Set Point

PAR-41MAA



- Displays model name and serial number on Mr Slim
- Night set back, scheduling, setpoint limitation
- 0.5°C Set Point adjustment
- Dual Set Point
- Run/Standby for Mr Slim
- Contact number under fault condition
- Backlight (White / Black options)
- Daylight saving function

PAR-FL / FA32MA



- Infrared solution
- Controller and receiver
- Controller able to control more than one receiver

PZ-62DR-EB



- Dedicated Lossnay controller
- Night set back, scheduling
- Flexible night purge
- Backlight

PAR-SL101A-E



- Wireless controller
- Weekly timer
- 3D Total Airflow for PLA-ZM/M
- 14°C cooling
- Individual vane setting for PLA-ZM/M/SM
- Dual Set Point
- Backlight

PAR-W31MAA / PAR-W21MAA



- Dedicated remote controller (see technical specification on page 7.18)
- Button lock
- Contact number under fault condition
- Fault codes

PAR-WT60R-E / PAR-WR61R-E



- Ecodan wireless controller
- New sleek flat panel design
- Backlight
- Ecodan receiver

PAC-IF072B-E



- Ecodan controller
- Backlight

Remote Controllers

Technical Specification

REMOTE CONTROLLERS	PAR-CT01MAA-SB	PAR-CT01MAA-PB	PAR-U02MEDA	PAR-41MAA	PAR-FL32MA	PAR-FA32MA
						
Description	Simplified Touch Screen Wired Remote Controller	Simplified Touch Screen Wired Remote Controller (Premium Finish)	Touch Screen Remote Controller	Standard Wired Remote Controller	Infrared Remote Controller	Infrared Receiver
Connect to	Indoor	Indoor	M-NET Network	Indoor	-	Indoor
Max Number of Units	16	16	16	16	-	16
Compatibility	Mr Slim, City Multi and M Series via MAC-497IF-E	Mr Slim, City Multi and M Series via MAC-497IF-E	City Multi (M Series and Mr Slim via A2M adaptor)*1	Mr Slim, City Multi and M Series via MAC-497IF-E or MAC-334IF-E	Mr Slim, City Multi and M Series via MAC-497IF-E	Mr Slim, City Multi and M Series via MAC-497IF-E
Dimensions (mm) (WxDxH)	120 x 14.1 x 65	120 x 14.1 x 65	140 x 25 x 120	120 x 14.5 x 120	157 x 18 x 57	120 x 18 x 70
Control	On/Off Mode Setpoint Fan Speed Air Direction Permit/Prohibit Filter Sign	✓ ✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ (0.5°C) ✓ ✓ ✓ ✓	✓ ✓ ✓ (0.5°C) ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓ ✓ ✓
Monitor	On/Off Mode Setpoint Fan Speed Air Direction Permit/Prohibit Filter Sign Fault Codes Room Temperature	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ (0.5°C) ✓ ✓ ✓ ✓ ✓ ✓ (0.5°C)	✓ ✓ ✓ (0.5°C) ✓ ✓ ✓ ✓ ✓ ✓ (0.5°C)	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
Backlight	✓	✓	✓	✓	✓	X
Setpoint Limitation	✓	✓	✓	✓	✓	-
Independent Vane Control	X	X	X	✓	X	-
Contact Number under Fault Condition	X	X	X	✓	X	-
Scheduling	✓	✓	Weekly	Weekly	X	-
Night Set Back	X	X	✓	✓	X	-
Button Lock	✓	✓	✓	✓	X	-
Easy Maintenance with Mr Slim	X	X	X	✓	X	-
Run / Standby with Mr Slim	X	X	X	✓	X	-
Silent Mode with Mr Slim	X	X	X	✓	X	-
Energy Saving with Mr Slim	X	X	X	✓	X	-
Occupancy Sensor (PIR)	X	X	✓	X	X	-
3D Total Airflow with Mr Slim	X	X	X	✓	X	-
Model Name and Serial Number Display with Mr Slim	X	X	X	✓	X	-
Energy Consumption Monitoring with Mr Slim	X	X	X	✓	X	-
2+1 Backup Rotation with Mr Slim	X	X	X	✓	X	-
Smart Defrost with Mr Slim	X	X	X	✓	X	-
14°C Cooling with Mr Slim	X	X	X	✓	X	-

Notes: Permit/Prohibit is via Centralised Controllers. ✓ = Yes, X = No, - = Not applicable. *1 M-NET Power Supply Required via PAC-SC51KUA for M Series & Mr Slim

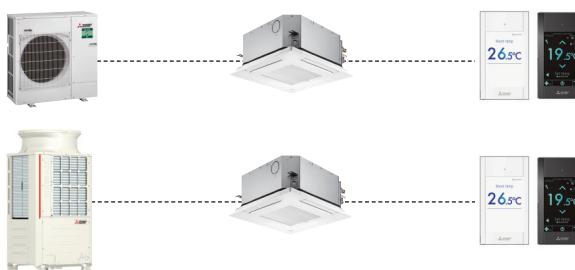
Remote Controllers

Technical Specification

REMOTE CONTROLLERS	PZ-62DR-EB	PAR-SL101A-E	PAR-W31MAA	PAR-W21MAA	PAR-WT60R-E	PAR-WR61R-E	PAC-IF072B-E
							
Description	Lossnay Wired Remote Controller	Wireless Remote Controller	Standard Wired Remote Controller	Standard Wired Remote Controller	Wireless Remote Controller Transmitter	Wireless Remote Controller Receiver	Flow Temperature Controller FTC6
Connect to	Indoor	-	e-Series and Ecodan QAHV	PWFY, Mr Slim Air Curtains and Ecodan CAHV / CRHV	Ecodan PUZ / QUHZ	Ecodan PUZ / QUHZ	Ecodan PUZ / QUHZ
Max Number of Units	15	-	6 (depends on unit connected)	16	8	1	1
Compatibility	Lossnay LGH-RVX3(T)-E LGH-RVS-E	Mr Slim PLA-ZM/M/SM PKA-M	e-Series and Ecodan CAHV/QAHV	PWFY and Ecodan CRHV	Ecodan PUZ / QUHZ	Ecodan PUZ / QUHZ	Ecodan PUZ / QUHZ
Dimensions (mm) (WxDxH)	120 x 19 x 120	66 x 22 x 188	120 x 19 x 120	130 x 19 x 120	100 x 23 x 100	100 x 30 x 80	120 x 19 x 120
Control	On/Off	✓	✓	✓	✓	x	-
	Mode	✓	✓	✓	✓	-	✓
	Setpoint	-	✓	✓	✓	-	✓
	Fan Speed	✓	✓	x	x	-	x
	Air Direction	-	✓	x	x	-	x
	Permit/Prohibit	✓	x	x	-	-	x
	Filter Sign	✓	x	x	x	-	x
Monitor	On/Off	✓	✓	✓	✓	✓	✓
	Mode	✓	✓	✓	✓	-	✓
	Setpoint	x	✓	✓	✓	-	✓
	Fan Speed	✓	✓	x	x	-	x
	Air Direction	-	✓	x	x	-	x
	Permit/Prohibit	✓	✓	✓	x	-	x
	Filter Sign	✓	x	x	x	-	x
	Fault Codes	✓	x	✓	✓	-	✓
	Room Temperature	-	x	x	x	✓	-
	Backlight	✓	✓	✓	x	✓	-
	Setpoint Limitation	-	x	x	✓	✓	-
	Independent Vane Control	-	✓	x	x	-	x
	Contact Number under Fault Condition	x	x	✓	✓	-	x
	Scheduling	Weekly	Weekly	Weekly	Weekly	Weekly	Weekly
	Night Set Back	-	x	x	✓	-	✓
	Button Lock	✓	x	x	✓	-	✓
	Easy Maintenance with Mr Slim	-	x	x	x	-	-
	Run / Standby with Mr Slim	-	x	x	x	-	-
	Silent Mode with Mr Slim	-	x	x	x	-	-
	Energy Saving with Mr Slim	-	x	x	x	-	-
	Occupancy Sensor (PIR)	-	x	x	x	-	-
	3D Total Airflow with Mr Slim	-	✓	x	x	-	-
	14°C Cooling with Mr Slim	-	✓	x	x	-	-

Notes: Prohibit is via Centralised Controllers. ✓ = Yes, x = No, - = Not applicable.

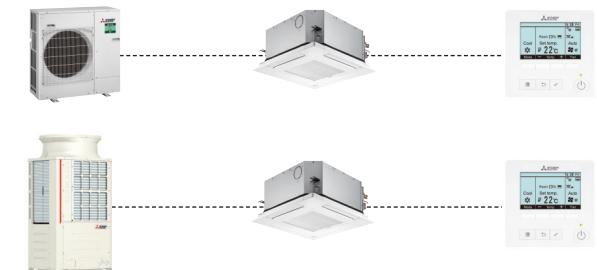
System Diagram PAR-CT01MAA-SB / PAR-CT01MAA-PB



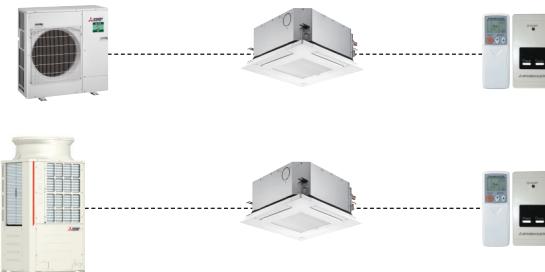
System Diagram PAR-U02MEDA



System Diagram PAR-41MAA



System Diagram PAR-FL / FA32MA



System Diagram PZ-62DR-EB



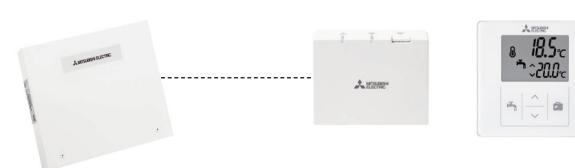
System Diagram PAR-SL101A-E



System Diagram PAR-W31MAA



System Diagram PAR-WT60R-E / PAR-WR61R-E



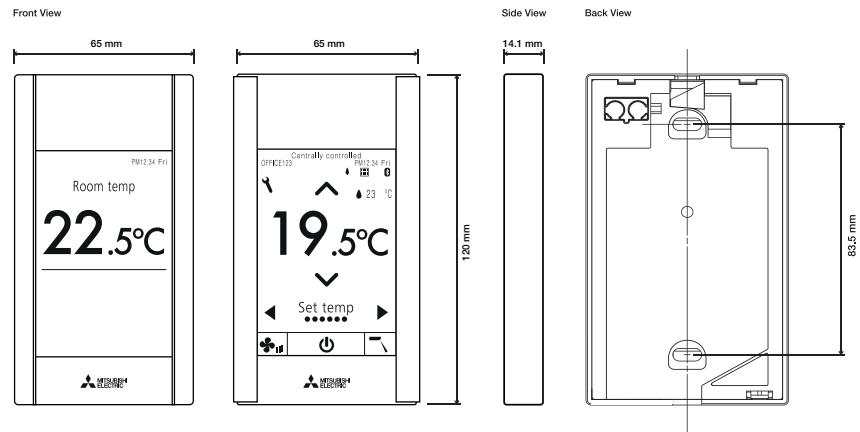
System Diagram PAC-IF072B-E



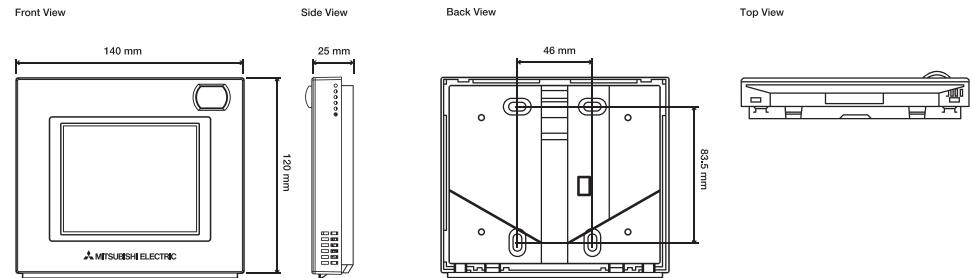
System Diagram PAR-W21MAA



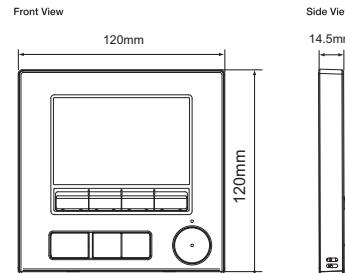
Product Dimensions PAR-CT01MAA-SB / PAR-CT01MAA-PB



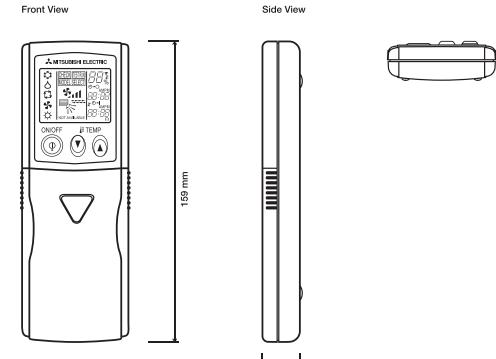
Product Dimensions PAR-U02MEDA



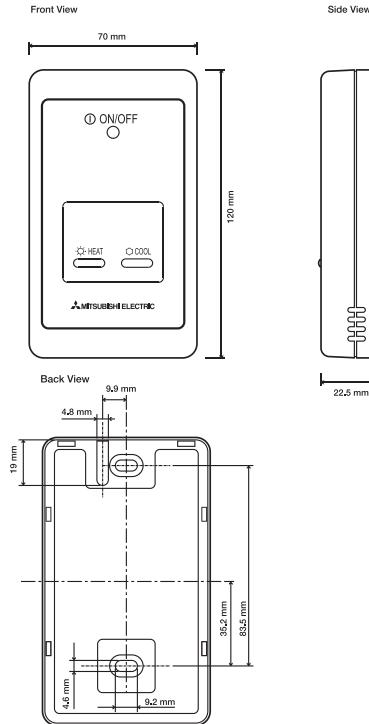
Product Dimensions PAR-41MAA



Product Dimensions PAR-FL32MA

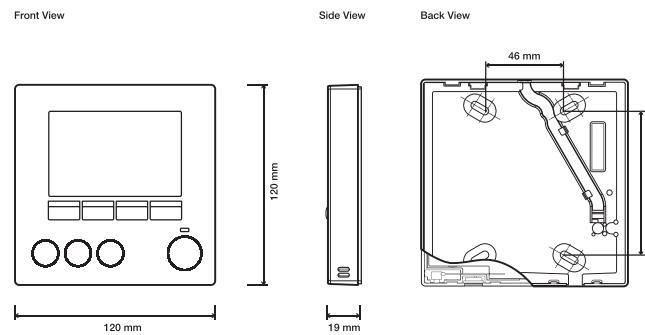


Product Dimensions PAR-FA32MA



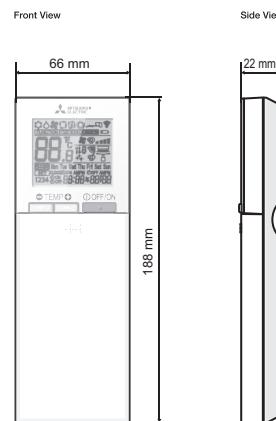
Product Dimensions

PZ-62DR-EB / PAR-W31MAA



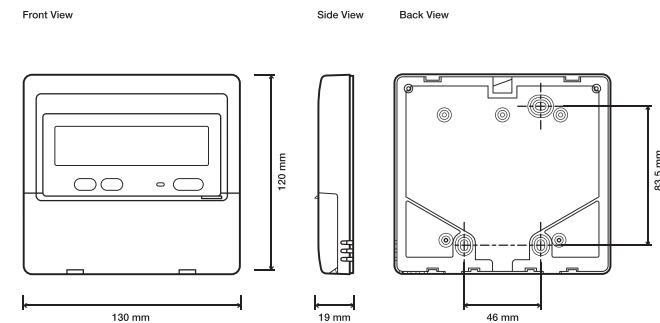
Product Dimensions

PAR-SL101A-E



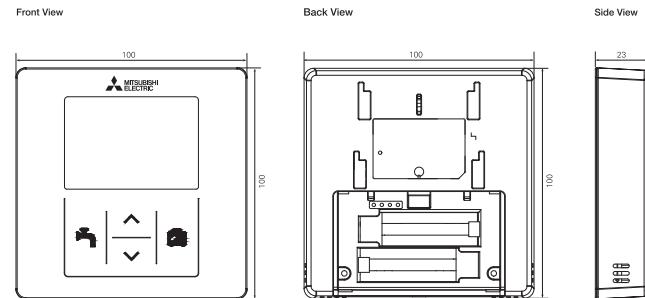
Product Dimensions

PAR-W21MAA



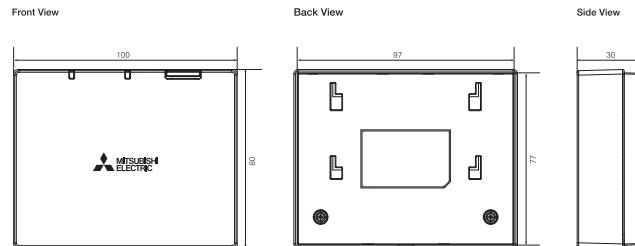
Product Dimensions

PAR-WT60R-E



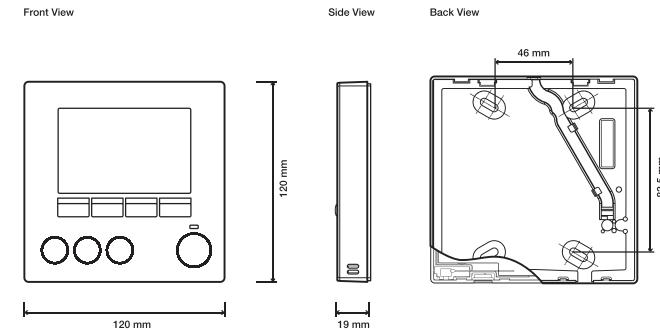
Product Dimensions

PAR-WR61R-E



Product Dimensions

PAC-IF072B-E



Solution Interfaces

Our dedicated solution interfaces now include new sector specific products such as our new **MELCloud Commercial** offering.

Key Features & Benefits

MELCLOUD COMMERCIAL



- Advanced remote control of indoor units across one or multiple sites
- Smart monitoring of outdoor unit performance for one or multiple buildings
- Energy monitoring via in-built CT Clamps or Modbus Energy Meters, for improved energy consumption & cost savings
- Real-time system data of indoor and outdoor units facilitates performance analysis, service, and ongoing maintenance
- Choice of subscription packages to meet customer requirements

MCC-50E



- Compatible with M Series, Mr Slim, City Multi and Lossnay ranges
- Cloud system connection device - MELCloud Commercial IoT platform
- 4G or LAN connection
- Remote access to control, monitor and provide service & maintenance for up to 50 indoor units

MELCLOUD-CL-HA1-A1



- IoT Interface - MELCloud Home and MELCloud Commercial*
- LAN or Cellular options. Cellular and MELCloud Home option includes data plan** via eSIM
- Remotely control indoor and outdoor units
- Remote service and maintenance*
- Update interface software OTA (over the air)
- Wall mountable - bracket supplied

MELCOMMS MINI



- Monitor and control up to 8 indoor units
- Run / Standby panel
- Includes 2 x MELCOBEMS MINI (A1M+) Interfaces

MELCOTEL2



- Monitor and control up to 200 indoor units
- Dedicated hotel interface
- Key card and non key card integration
- Automatic Setpoint adjustment
- Occupied / Unoccupied Settings Reset

Solution Interfaces

Technical Specification

SOLUTION INTERFACES	MELCLOUD COMMERCIAL	MCC-50E	MELCLOUD-CL-HA1-A1	MELCOMMS MINI	MELCOTEL2
					
Description	IoT Platform and Application	MELCloud IoT Gateway	MELCloud Interface Cellular/LAN	Run Standby Panel	AE-200E Hotel Interface and display
Connect to	Web based (MCC-50E Required)	M-NET Network	CN105 (1.5m cable provided)	MELCOBEMS MINI (A1M+)	AE-200E and EW-50E
Max Number of Units	50	50 Indoor / 50 Outdoor / 4 Energy Meters	1 per Indoor Unit	8	200
Compatibility	M Series, Mr Slim, City Multi and Lossnay	M Series, Mr Slim, and City Multi	M Series, Mr Slim, City Multi, Lossnay, Ecoden, Air purifier, MELCloud Home, MELCloud Commercial	M Series and Mr Slim	City Multi
Power Supply	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz (Power is taken from the indoor unit)	220-240v, 50Hz	220-240v, 50Hz
Dimensions (mm) (WxDxH)	172 x 100 x 209	172 X 100 X 209	165 x 218 x 55	253 x 90 x 180	350 x 80 x 400
Ethernet Capabilities	✓	1x Ethernet Port	1x Ethernet Port	x	x
SIM Card Provided	✓	Sold separately	On board eSIM	x	x
Inputs	✓ Digital (via PAC-YG66)	USB / RJ45 / RS485	RJ45	x	x
Outputs	✓ Digital (via PAC-YG66)	Data output via MELCloud Commercial platform	Data output via MELCloud Home and Commercial** platforms	✓ 1 Digital (Fault)	x
Network	-	IoT (MELCloud Commercial) / LAN / 4G	LAN or Cellular (LTE-M, 2G)	-	-
Control	On/Off Mode Setpoint Fan Speed Air Direction Permit/Prohibit Schedule Filter Sign Frost Protection Holiday Mode	DI DI DI DI DI DI DI DI DI DI	DI DI DI DI DI DI DI DI DI DI	DI DI DI x x x -	✓ ✓ ✓ x x x -
Monitor	On/Off Mode Setpoint Fan Speed Air Direction Permit/Prohibit Cloud Communication Filter Sign Fault Code Alerts Room Temperature Daily kWh Energy Monthly kWh Energy Comfort Data Building Status	DO DO DO DO DO DO DO DO DO DO DO DO	DO DO DO DO DO DO DO DO DO DO DO DO	DO DO DO x x -	✓ ✓ ✓ x x -
Flexible Schedule Options	✓	Via MELCloud Commercial Platform	Via MELCloud Home / Commercial** Platform	x	x
Night Setback	-	-	✓	x	✓
Web Pages	✓	MELCloud Commercial Platform	MELCloud Home / MELCloud Commercial** Platform	x	x
Optimised Start	✓	-	✓ ²	x	x
Automatic Setpoint Adjustment	-	-	✓ ²	x	✓
Load Shedding	-	-	-	x	x
Occupied / Unoccupied Settings Reset	-	-	-	x	✓
Advanced Energy Monitoring ¹	✓	Via MELCloud Commercial Platform	-	x	x

Key:

DI = Digital Input.

DO = Digital Output.

AI = Analogue Input.

AO = Analogue Output.

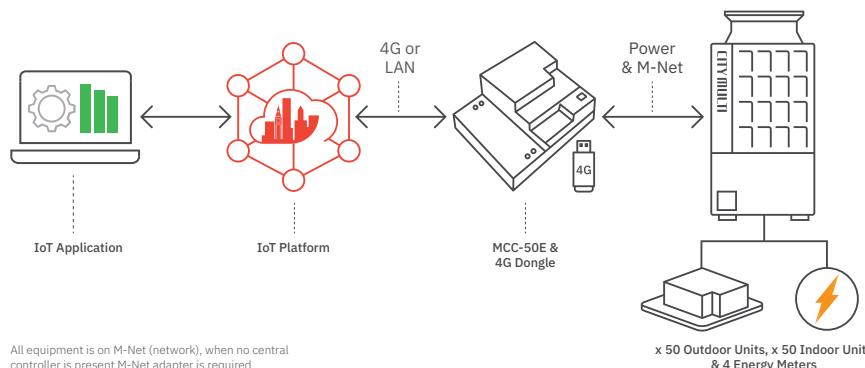
Notes:

¹ Advanced Energy Monitoring: Energy status shows kWh consumed, including comparisons of individual buildings. With the addition of the PAC-YG***CA interfaces, third party equipment can also be monitored.

² MELCloud Commercial compatibility expected end 2023.

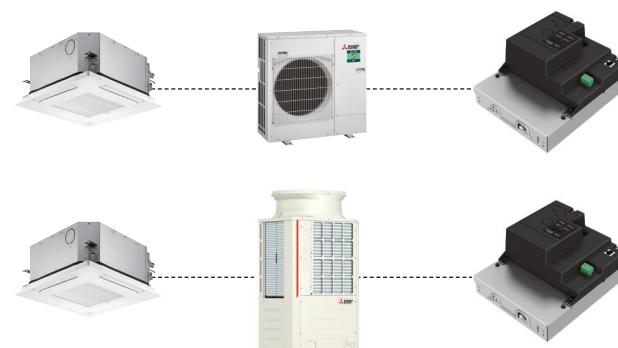
System Diagram

MELCLOUD COMMERCIAL



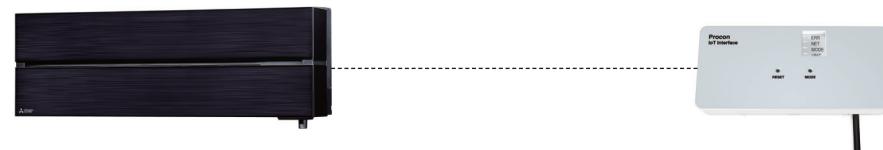
System Diagram

MCC-50E



System Diagram

MELCLOUD-CL-HA1-A1



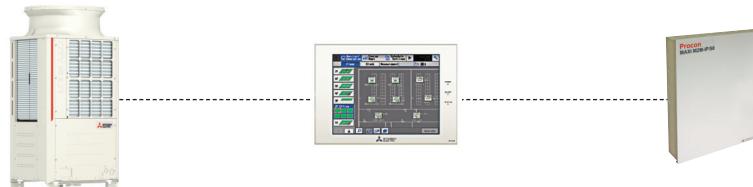
System Diagram

MELCOMMS MINI



System Diagram

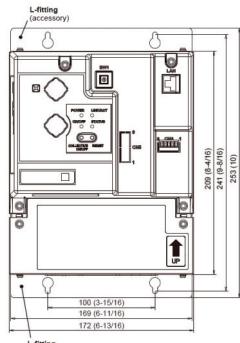
MELCOTEL2



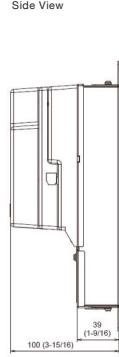
Product Dimensions

MCC-50E

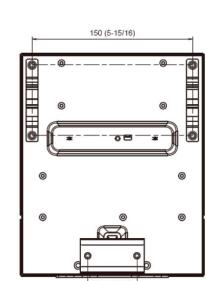
Front View



Side View

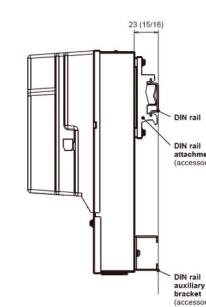


Rear View



*When using DIN rail

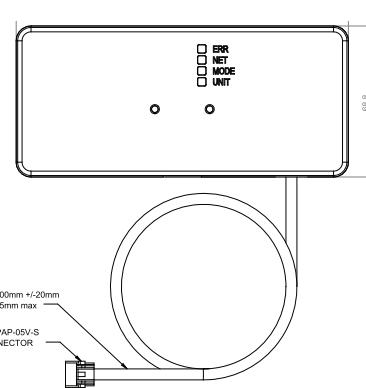
Side View



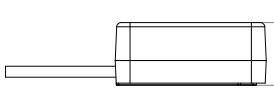
Product Dimensions

MELCLOUD-CL-HA1-A1

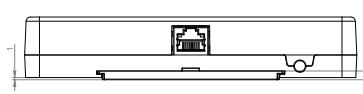
Front View



Side View



Lower View

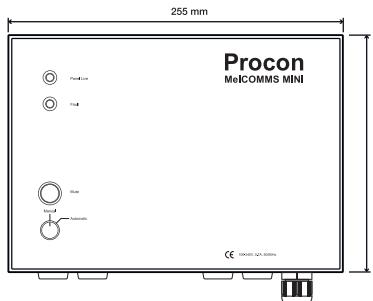


*When using L-fittings

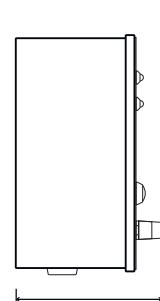
Product Dimensions

MELCOMMS MINI

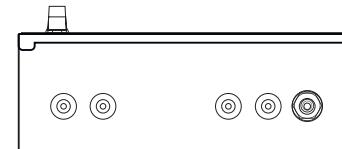
Front View



Side View



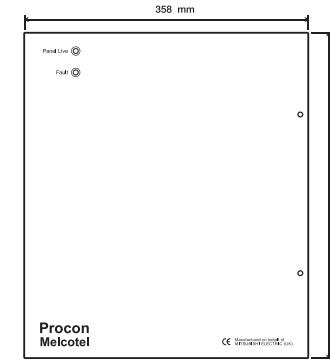
Top View



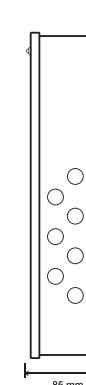
Product Dimensions

MELCOTEL2

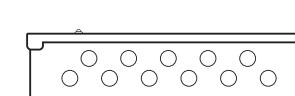
Front View



Side View



Top View



Simple Interfaces

A wide range of interfaces are available to allow third party equipment to monitor and control our units. Some interfaces are also available to monitor and control third party equipment from our centralised controllers.

Key Features & Benefits

PAC-SA89TA



- Also known as 3 wire adaptor
- Remote on/off
- Fire alarm input
- Night mode
- Demand control

PAC-SA88HA



- Heating and cooling signal
- Run and fault signal

PAC-YT51HAA



- Remote on/off
- Fire alarm input
- Common run and fault signal

PAC-YG10HA



- Remote on/off
- Fire alarm input
- Common run and fault signal

PAC-SJ95MA-E



- Adaptor to connect Mr Slim units to M-NET

PAC-SK15MA-E



- Adaptor to connect Mr Slim PUZ-ZM35/50 units to M-NET

Simple Interfaces

Technical Specification

SIMPLE INTERFACES	PAC-SA89TA	PAC-SA89TA	PAC-SA88HA	PAC-SA88HA	PAC-SA88HA	PAC-YT51HAA	PAC-YG10HA	PAC-SJ95MA-E	PAC-SK15MA-E
Description	On/Off Adaptor (3 wire adaptor)	Night Mode and Demand Control (3 wire adaptor)	Run and Fault Adaptor (5 wire adaptor)	Heat and Cool Adaptor (5 wire adaptor)	Run and Fault Adaptor (5 wire adaptor)	On/Off Run and Fault Adaptor	On/Off Run and Fault Adaptor (9 wire adaptor)	M-NET Converter	M-NET Converter
Connect to	Indoor	Outdoor	Indoor	Indoor	Outdoor	AT-50B	AE-200E and EW-50E	Outdoor	Outdoor
Max Number of Units	1	1	1	1	1	1	1	1	1
Compatibility	Mr Slim and City Multi	Mr Slim and City Multi	Mr Slim and City Multi	City Multi	City Multi	AT-50B	AE-200E and EW-50E	Mr Slim Outdoor ^{*1}	Mr Slim PUZ-ZM35/50 Outdoor
Dimensions (mm) (WxDxH)	-	-	-	-	-	-	-	140 x 15 x 50	120 x 44 x 321
Control	On/Off ✓	✓	x	x	x	✓	✓	-	-
Mode	x	x	x	x	x	x	x	-	-
Setpoint	x	x	x	x	x	x	x	-	-
Fan Speed	x	x	x	x	x	x	x	-	-
Air Direction	x	x	x	x	x	x	x	-	-
Permit/Prohibit	x	x	x	x	x	x	x	-	-
Filter Sign	x	x	x	x	x	x	x	-	-
Monitor	On/Off x	x	✓	x	✓	✓	✓	-	-
Mode	x	x	x	✓	x	x	x	-	-
Setpoint	x	x	x	x	x	x	x	-	-
Fan Speed	x	x	x	x	x	x	x	-	-
Air Direction	x	x	x	x	x	x	x	-	-
Permit/Prohibit	x	x	x	x	x	x	x	-	-
Filter Sign	x	x	x	x	x	x	x	-	-
Fault Codes	x	x	✓	✓	✓	✓	✓	-	-
Room Temperature	x	x	x	x	x	x	x	-	-
Fire Alarm	✓	✓	x	x	x	✓	✓	-	-
On/Off but Centrally Controlled	VFC	x	x	x	x	VFC	Via 24VDC	-	-
On/Off but NOT Centrally Controlled	x	x	x	x	x	x	x	-	-
Run and Fault Output	x	x	12VDC	x	12VDC	Via 24VDC	Via 24VDC	-	-
Heat and Cool Output	x	x	x	12VDC	x	x	x	-	-
Night Mode and Demand Control	x	VFC	x	x	x	x	x	-	-
Connect Mr Slim to M-NET	-	-	-	-	-	-	-	✓	✓

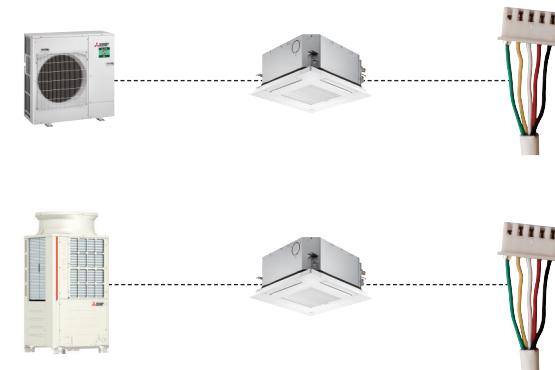
Notes: VFC: Volt free contact. *1 PAC-SJ95MA-E M-NET adaptor for PUZ-ZM60-250, PUZ-M100-250, PUZ-SM100-140.

✓ = Yes, x = No, - = Not applicable.

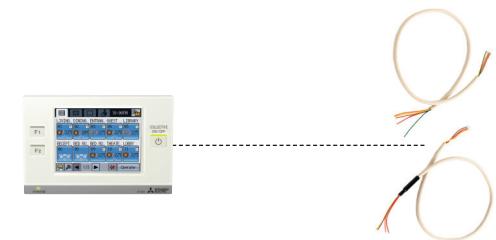
System Diagram PAC-SA89TA



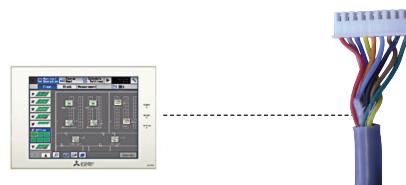
System Diagram PAC-SA88HA



System Diagram PAC-YT51HAA



System Diagram PAC-YG10HA



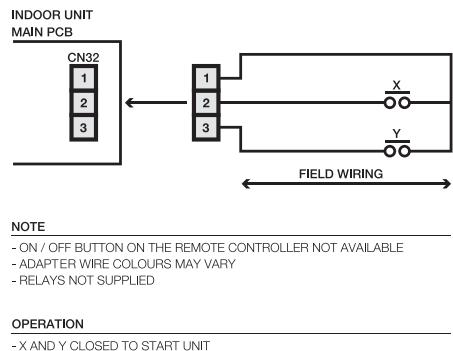
System Diagram PAC-SJ95MA-E



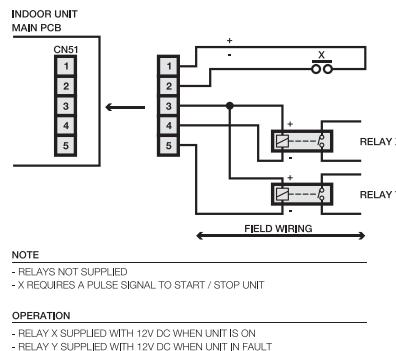
System Diagram PAC-SK15MA-E



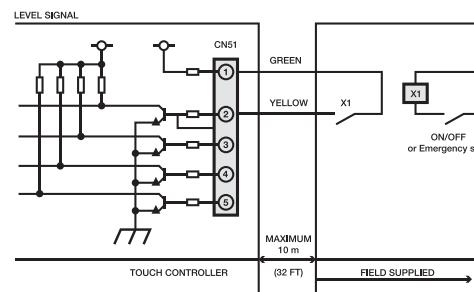
Wiring Diagram PAC-SA89TA



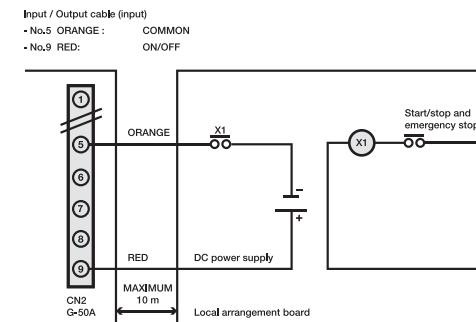
Wiring Diagram PAC-SA88HA



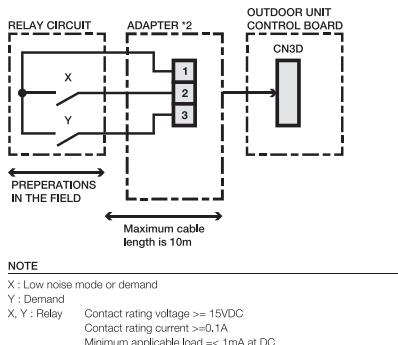
Wiring Diagram PAC-YT51HAA



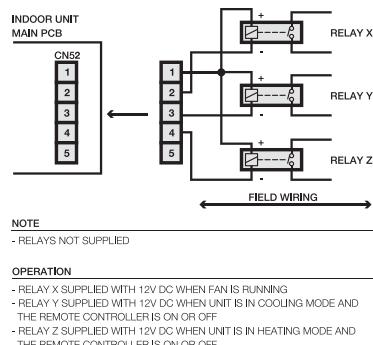
Wiring Diagram PAC-YG10HA



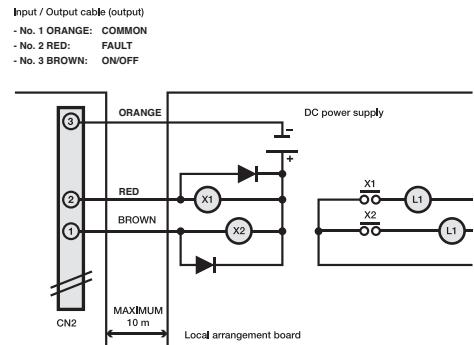
Wiring Diagram PAC-SA89TA



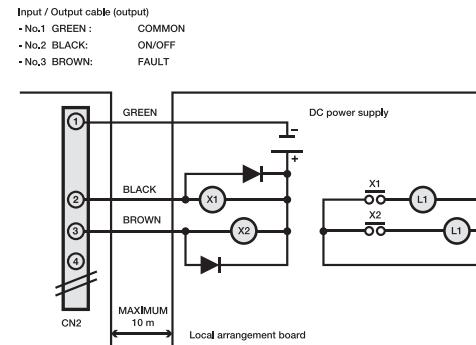
Wiring Diagram PAC-SA88HA



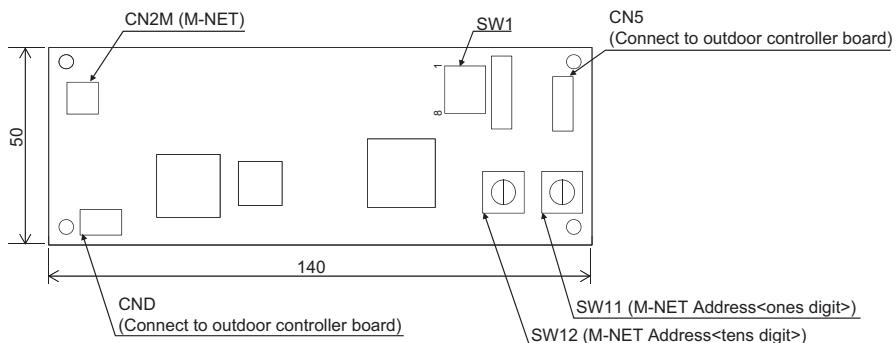
Wiring Diagram PAC-YT51HAA



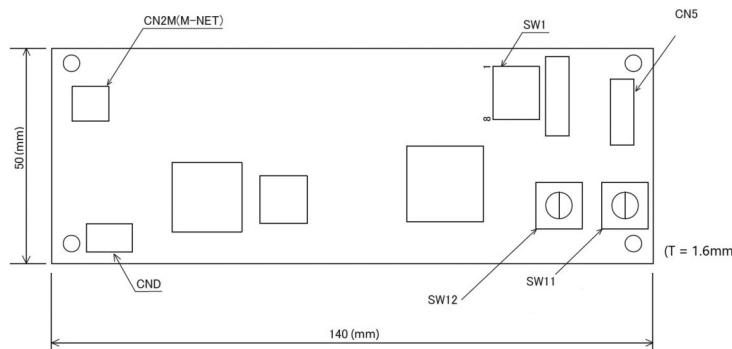
Wiring Diagram PAC-YG10HA



Product Dimensions PAC-SJ95MA-E



Product Dimensions PAC-SK15MA-E



Notes: Dimensional drawing of board, for cover dimensions please see page 6.27

Advanced Interfaces

A wide range of interfaces are available to allow third party equipment to monitor and control our units. Some interfaces are also available to monitor and control third party equipment from our centralised controllers.

Key Features & Benefits

KTR-53A



- Remote on/off
- Run and fault volt free outputs

MELCORETAIL MINI



- On/off, fire alarm and lock input
- Setpoint and fan speed input
- Run, fault, heat and cool output
- 2 energy saving features

PAC-YG60MCA



- Monitor up to 4 energy meters

PAC-YG63MCA



- Monitor up to 2 temperature sensors

PAC-YG66DCA



- Monitor and control up to 2 pieces of general equipment

MAC-497IF-E



- Adaptor to connect remote controller to M Series
- Adaptor to connect M Series to M-NET

MAC-334IF-E



- Adaptor to connect remote controller to M Series
- Adaptor to connect M Series to M-NET
- 3rd party heating interlock

MAC-587IF-E



- Wi-Fi Interface for MELCloud solution
- ATA, Lossnay and ATW support
- WPS and Wi-Fi pin pairing
- WPS Push mode
- Setting via PAR-41MAA / PAR-SL101A-E

Advanced Interfaces

Technical Specification

ADVANCED INTERFACES	KTR-53A	MELCORETAIL MINI	PAC-YG60MCA	PAC-YG63MCA	PAC-YG66DCA
					
Description	On/Off and Run/Fault Adaptor	Retail Control and Input / Output Interface	Pulse Meter Interface	Temperature and Humidity Interface	Third Party Control and Interface
Connect to	Indoor	Indoor	M-NET Network	M-NET Network	M-NET Network
Max Number of Units	1	1	4 Pulse Meters	1 PT100, 1 Humidity Sensor	2 General Equipment
Compatibility	Mr Slim and City Multi	M Series and Mr Slim	AE-200E and EW-50E	AE-200E and EW-50E	AE-200E and EW-50E
Power Supply	12/24VAC/DC	-	24VDC	24VDC	24VDC
Dimensions (mm) (WxDxH)	130 x 30 x 80	85 x 32 x 138	200 x 45 x 120	200 x 45 x 120	200 x 45 x 120
Control	On/Off Mode Setpoint Fan Speed Air Direction Permit/Prohibit Filter Sign	✓ - - - - - -	VFC 0 to 10VDC 0 to 10VDC 0 to 10VDC	- - - - - -	- - - - - -
Monitor	On/Off Mode Setpoint Fan Speed Air Direction Permit/Prohibit Filter Sign Fault Codes Room Temperature	✓ - - - - - - ✓ -	VFC VFC - - - - - VFC -	- - - - - - - - -	- - - - - - - ✓ -
On/Off but Centrally Controlled	Option Lock/Unlock	VFC	x	-	-
On/Off but NOT Centrally Controlled	12/24VAC/DC	VFC	x	-	-
Run Output	x	VFC	x	-	-
Fault Output	x	VFC	x	-	-
Energy Saving	x	VFC	x	-	-
Heat / Cool / Thermo Output	x	VFC	x	-	-
Pulse Weight	x	x	0.1, 1.0 and 10	-	-

Notes: VFC: Volt free contact. ✓ = Yes, x = No, - = Not applicable.

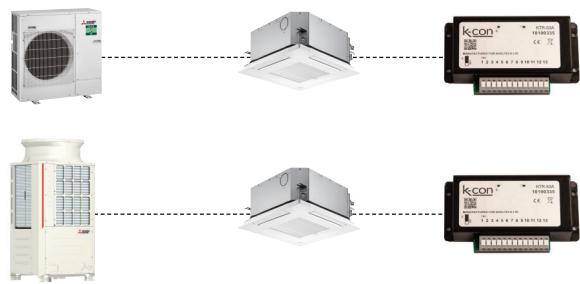
Advanced Interfaces

Technical Specification

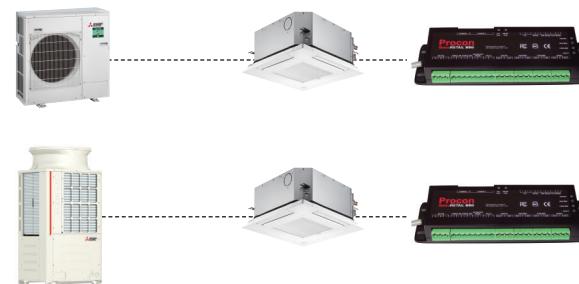
ADVANCED INTERFACES	MAC-497IF-E	MAC-334IF-E	MAC-587IF-E	
				
Description	Interface for MA Remote Controller	Interface for M-NET, MA Remote Controller, On/Off Input, Run/Fault Output and 3rd Party Heating Interlock (M Series)	AIR CONDITIONING MELCloud Wi-Fi Interface	ECODAN* MELCloud Wi-Fi Interface
Connect to	Indoor	Indoor	Indoor	Indoor
Max Number of Units	1	1	1	1
Compatibility	M Series and Mr Slim (SUZ)	M Series and Mr Slim (SUZ)	M Series, Mr Slim, City Multi and Lossnay	Ecodan FTC6
Power Supply	-	-	-	-
Dimensions (mm) (WxDxH)	128 x 30 x 76	160 x 55 x 70	73.5 x 18.5 x 41.5	73.5 x 18.5 x 41.5
Control	On/Off	✓	✓	✓
	Mode	x	✓	✓
	Setpoint	x	✓	✓
	Fan Speed	x	✓	x
	Air Direction	x	✓	x
Monitor	On/Off	✓	✓	✓
	Mode	x	✓	✓
	Setpoint	x	✓	✓
	Fan Speed	x	✓	✓
	Air Direction	x	✓	✓
	Filter Sign	x	✓	✓
	Fault Codes	x	✓	✓
	Room Temperature	x	✓	✓
On/Off but Centrally Controlled	On/Off but Centrally Controlled	x	-	-
	On/Off but NOT Centrally Controlled	x	-	-
	Heat / Cool / Thermo Output	x	-	-
	Set-Up of Room Temperature Detector Position	✓	✓	-

Notes: VFC: Volt free contact. ✓ = Yes, x = No, - = Not applicable. *For further technical specification on the MAC-587IF-E for Ecodan please refer to the Residential Heating Section of the Product Catalogue.

System Diagram KTR-53A



System Diagram MELCORETAIL MINI



System Diagram PAC-YG60MCA



System Diagram PAC-YG63MCA



System Diagram PAC-YG66DCA



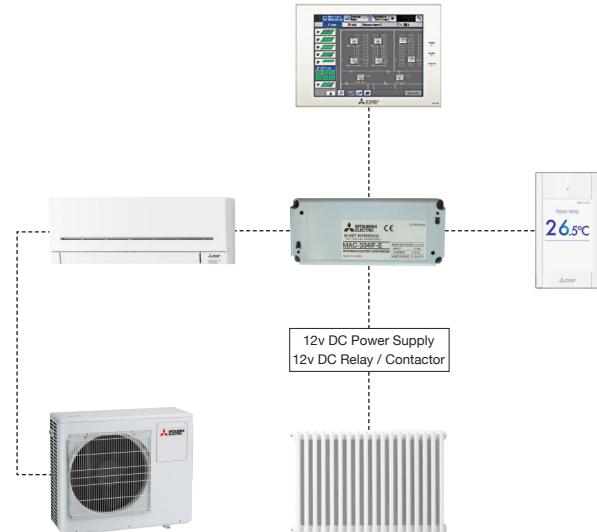
System Diagram MAC-497IF-E



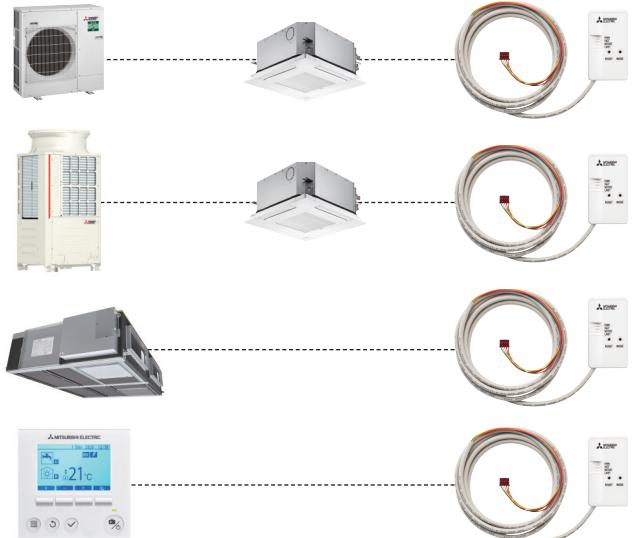
System Diagram MAC-334IF-E



System Diagram MAC-334IF-E Heating Interlock

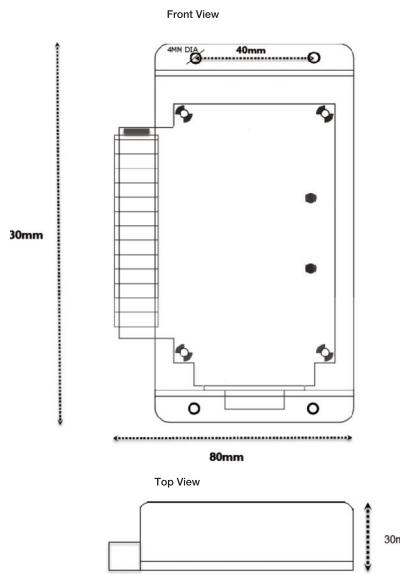


System Diagram MAC-587IF-E



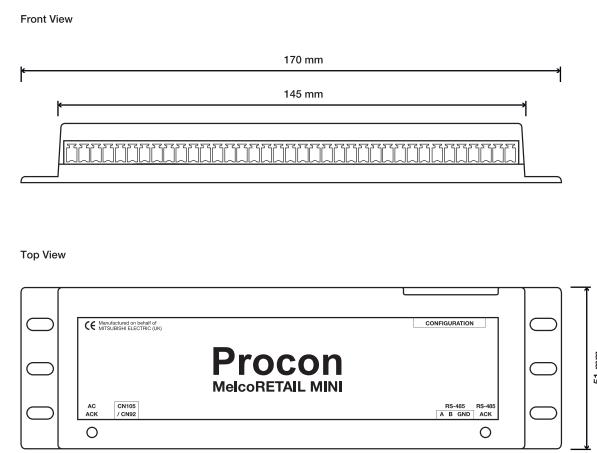
Product Dimensions

KTR-53A



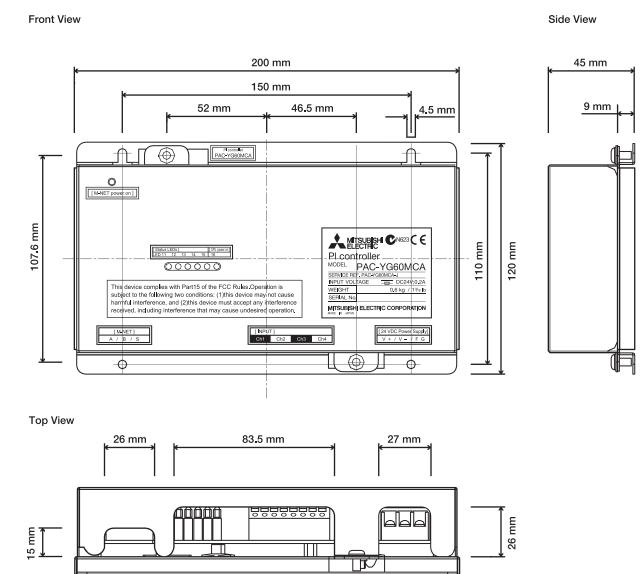
Product Dimensions

MELCORETAIL MINI



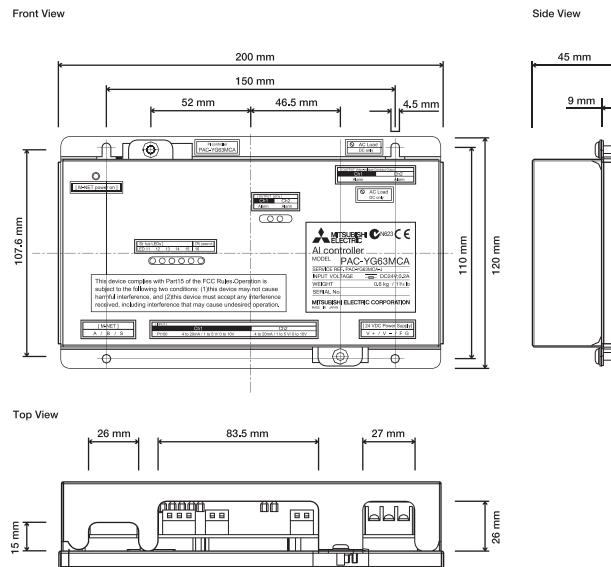
Product Dimensions

PAC-YG60MCA



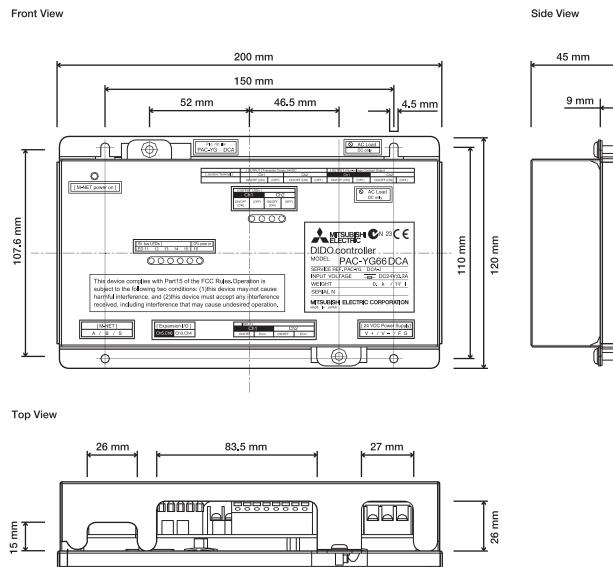
Product Dimensions

PAC-YG63MCA



Product Dimensions

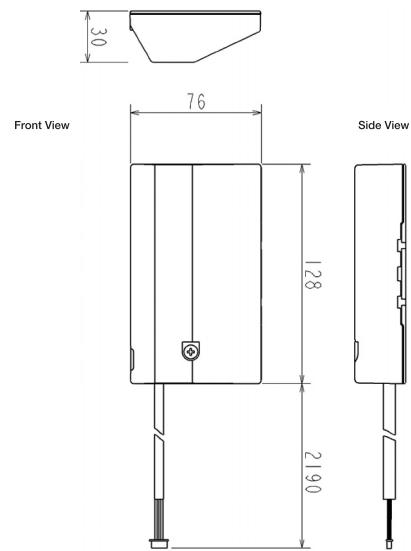
PAC-YG66DCA



Product Dimensions

MAC-497IF-E

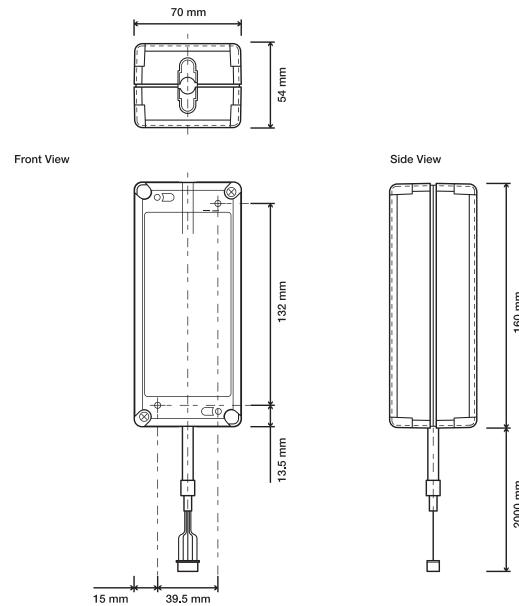
Top View



Product Dimensions

MAC-334IF-E

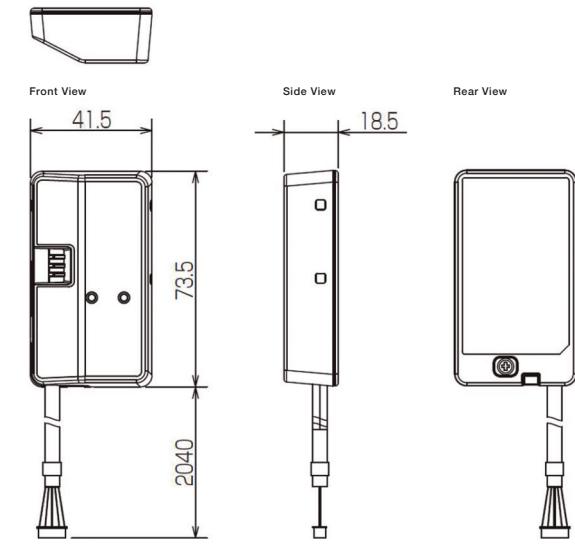
Top View



Product Dimensions

MAC-587IF-E

Top View



BEMS Interfaces

Building Energy Management Systems (BEMS) will allow a building to run efficiently. A wide range of interfaces are available to connect our systems simply to a BEMS.

Key Features & Benefits

MELCOBEMS MINI (A1M+)

Expected release date: Q3 2023



- BACnet / Modbus IP
- Configuration via onboard webpage (local network)
- Firmware update over Ethernet (local network)
- Individually monitor and control indoor and outdoor unit (1 x A1M+ per unit)
- DIN rail mount option

MELCOBEMS



- Monitor and control up to 50 indoor units
- Modbus and BACnet interface
- Energy monitoring

MELCOBEMS SIP+



- Control and Monitor up to 50 indoor units (up to 200 with EW-50E)
- Multiprotocol, allowing data to be disseminated to one or many BMS, EMS & IoT systems
- Energy Monitoring

IQ4 XNC



- Monitor and control up to 50 indoor units
- Trend interface

MELCOJACE-8000



- Monitor and control up to 50 / 100 / 200 indoor units
- Tridium Niagara 4 compatible
- Built in HTML5 web page for plug & play
- On-board library Modbus & BACnet MSTP for Procon MELCOBEMS MINI (A1M+)
- No additional interface required, direct plug & play to centralised controllers
- On-board Wi-Fi application to allow commissioning by PC, tablet or smartphone
- BACnet
- Modbus

BEMS Interfaces

Technical Specification

BEMS INTERFACES	MELCOBEMS MINI (A1M+)	MELCOBEMS	MELCOBEMS SIP+
			
Description	Air to Air Splits Modbus/BACnet Interface. Air (Water) to Water & Lossnay Modbus/BACnet Interface	AE-200E, EW-50E Modbus BACnet Interface	Multiprotocol Gateway
Connect to	Indoor, Outdoor or Ecodan PCB	AE-200E and EW-50E	AE-200E and EW-50E
Max Number of Units	1	50	200
Compatibility	M Series, Mr Slim, City Multi, Ecodan FTC6/5/4, e-Series, Ecodan QAHV/CAHV/CRHV and Lossnay (LGH models)	M Series, Mr Slim and City Multi	M Series, Mr Slim, City Multi, e-Series, Lossnay and Ecodan
Power Supply	-	24VDC	24VDC
Dimensions (mm) (WxDxH)	95 x 22.7 x 78.6	102 x 32 x 180	108 x 60 x 90
Network	Modbus / BACnet IP / RS485*. KNX ²	Modbus / BACnet RS485 and TCP/IP	Bacnet IP / Modbus Sub TCP/IP and Serial / MQTT and REST (IoT protocols)
BEMS Compatibility	Cylon, Satchwell, Crestron, Invensys, Interactive Homes, North BT, Andover, Siemens, WEMS, RDM	Cylon, Satchwell, Crestron, Invensys, Interactive Homes, North BT, Andover, Siemens, WEMS, Andover Controls, York BMS, Siemens, Priva Building Intelligence, Delta Controls, RDM	Trend, Cylon, Satchwell, Crestron, Invensys, Interactive Homes, North BT, Andover, Siemens, WEMS, Andover Controls, York BMS, Siemens, Priva Building Intelligence, Delta Controls, RDM
Control	Air to Air Splits and Lossnay	Air (Water) to Water	
On/Off	DI	AI	DI
Mode	AI	AI	AI
Setpoint	AI	AI	AI
Fan Speed	AI	-	AI
Air Direction	AI	-	AI
Permit/Prohibit	x	AI	DI
Filter Sign	DI	-	DI
Monitor			
On/Off	DO	DO	DO
Mode	AO	AO	AO
Setpoint	AO	AO	AO
Fan Speed	AO	-	AO
Air Direction	AO	-	AO
Permit/Prohibit	x	AO	DO
Filter Sign	DO	-	DO
Fault Codes	AO	AO	AO
Room Temperature	AO	AO	AO
Daily kW Energy	-	AO	With EW-50E
Monthly kW Energy	-	AO	With EW-50E

Key: DI = Digital Input. DO = Digital Output. AI = Analogue Input. AO = Analogue Output.

Notes: *1 Function only available on M Series, Mr Slim and City Multi. *2 KNX compatibility ETA End 2023.

The MELCOBEMS can monitor indoor daily and monthly kWh when used in conjunction with AE-200E, EW-50E, PAC-YG60MCA on third party energy meters.

BEMS Interfaces

Technical Specification

BEMS INTERFACES		IQ4 XNC	MELCOJACE-8000
			
Description		AE-200E and EW-50E Trend Interface ¹	AE-200E & EW-50E Tridium Niagara Interface ²
Connect to		AE-200E and EW-50E	AE-200E, EW-50E
Max Number of Units		50	50 / 100 / 200
Compatibility		M Series, Mr Slim, City Multi and Lossnay	M Series, Mr Slim, City Multi and Lossnay
Power Supply		220-240v, 50Hz	24v, AC/DC
Dimensions (mm) (WxDxH)		263 x 46 x 150	171 x 61 x 110
Network		Trend	Niagara
BEMS Compatibility		Trend	Any Niagara compatible BEMS
Control	On/Off	DI	✓
	Mode	AI	✓
	Setpoint	AI	✓
	Fan Speed	AI	✓
	Air Direction	AI	✓
	Permit/Prohibit	DI	✓
	Schedule	-	-
	Filter Sign	DI	✓
Monitor	On/Off	DO	✓
	Mode	AO	✓
	Setpoint	AO	✓
	Fan Speed	AO	✓
	Air Direction	AO	✓
	Permit/Prohibit	DO	✓
	Cloud Communication	-	✓
	Filter Sign	DO	✓
	Fault Codes	AO	✓
	Room Temperature	AO	✓
	Daily kWh Energy	-	✓ ³
	Monthly kWh Energy	-	✓ ³
	Comfort Data	-	-

Key: DI = Digital Input. DO = Digital Output. AI = Analogue Input. AO = Analogue Output.

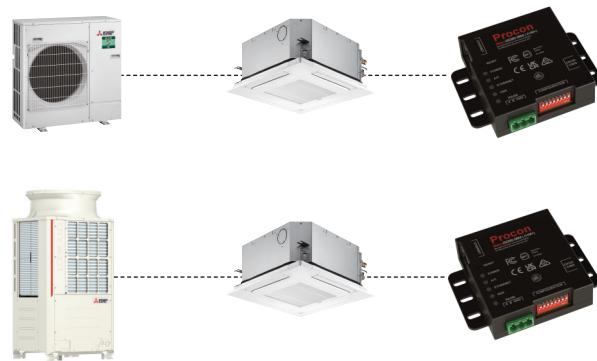
Notes: The PAC-YG***CA are not compatible with MELCOBEMS and IQ4 XNC.

*1 Synapsys Solutions Ltd, 1 Woodlands Court, Albert Drive, Burgess Hill, West Sussex, RH15 9TN, Telephone 0845 680 0303

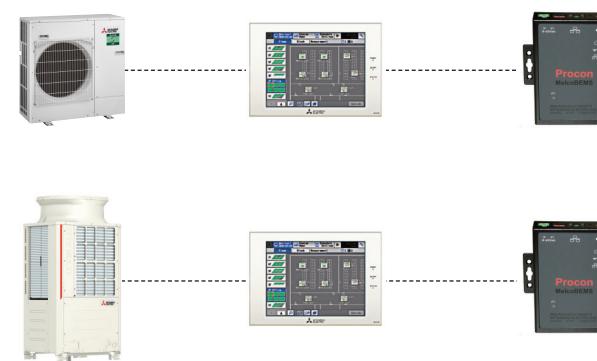
*2 The MELCOJACE-8000 range is only available from Forest Rock Systems Ltd, Charnwood Building, Holywell Park, Ashby Road, Loughborough, LE11 3AQ. Telephone: 0845 5197958

*3 The MELCOJACE-8000 can monitor indoor daily and monthly kWh when used in conjunction with AE-200E, EW-50E, PAC-YG60MCA on third party energy meters.

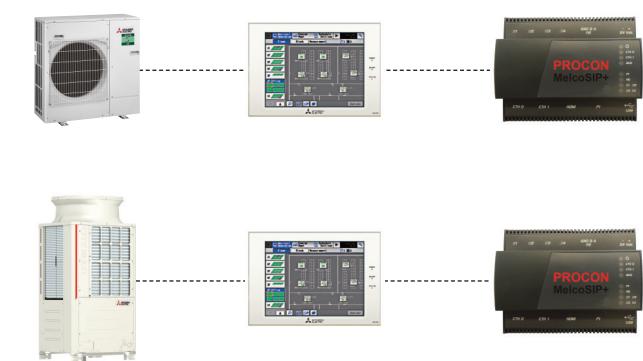
System Diagram MELCOBEMS MINI (A1M+)



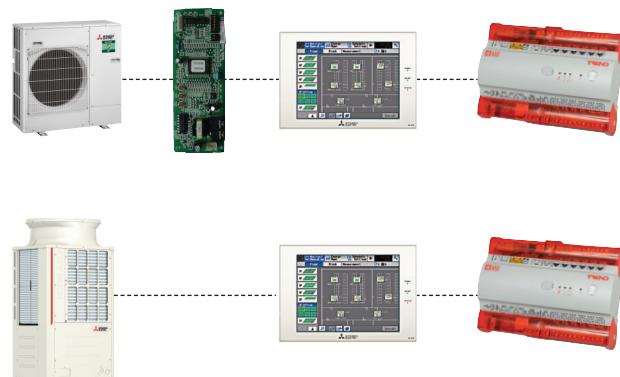
System Diagram MELCOBEMS



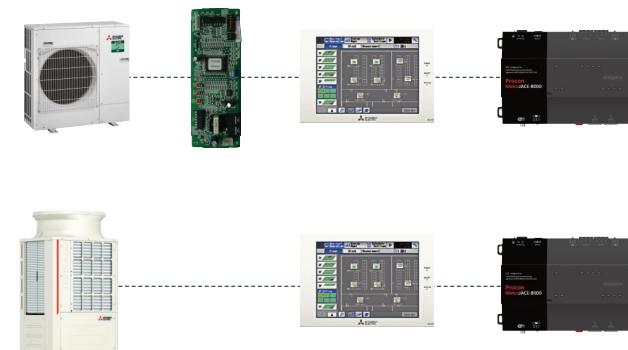
System Diagram MELCOBEMS SIP+

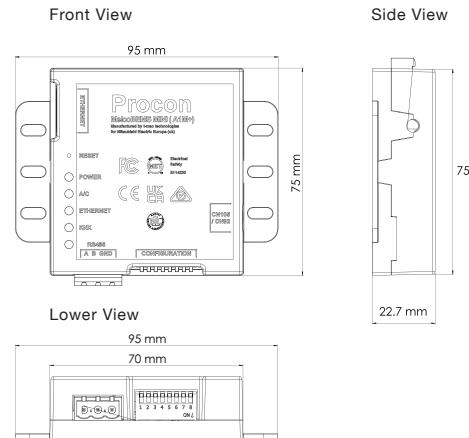
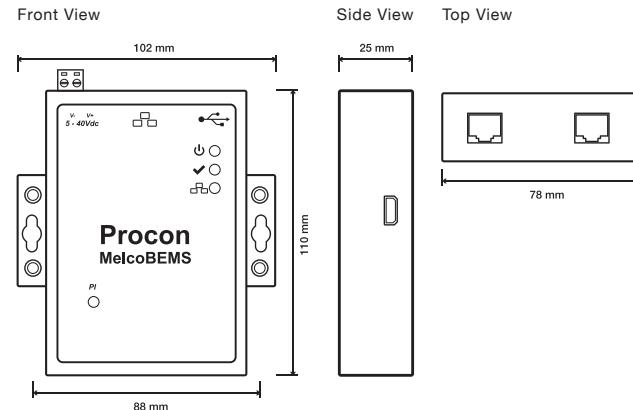
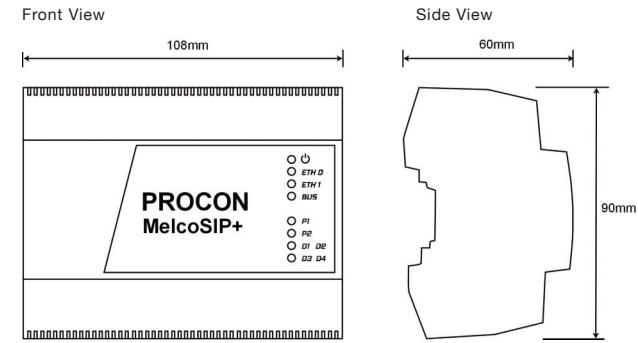
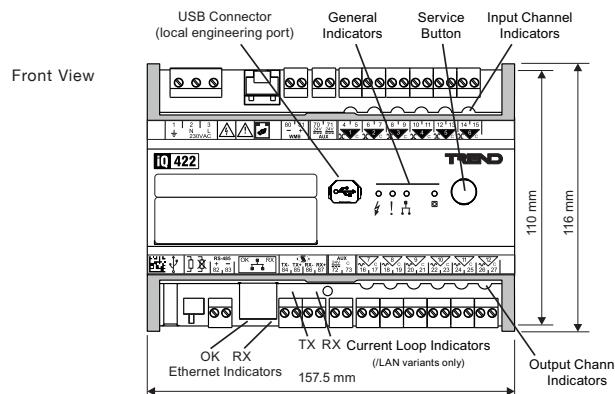


System Diagram IQ4 XNC

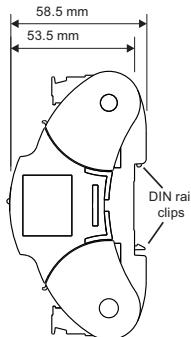
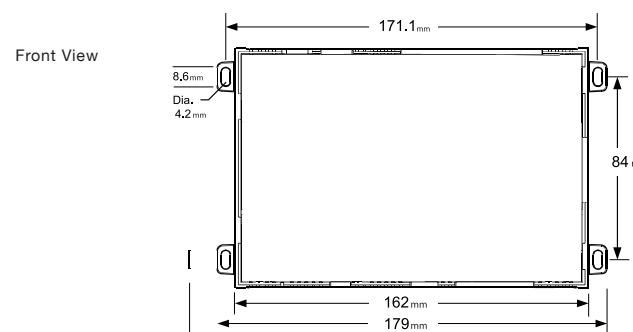


System Diagram MELCOJACE-8000

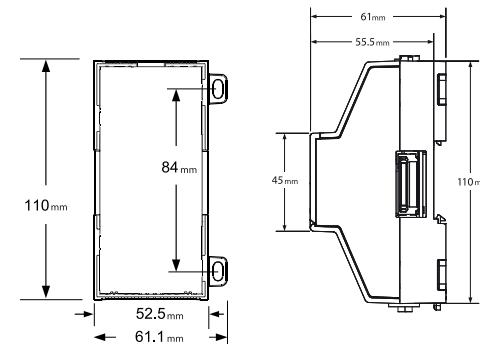


Product Dimensions**MELCOBEMS MINI (A1M+)****Product Dimensions****MELCOBEMS****Product Dimensions****MELCOBEMS SIP+****Product Dimensions****IQ4 XNC**

Side View

**Product Dimensions****MELCOJACE-8000**

Side View



AT-50B Screen Examples

AT-50B Home Screen 1



AT-50B Home Screen 2



AT-50B Home Screen 3



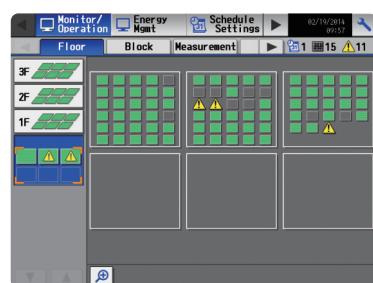
AT-50B Indoor Unit Settings



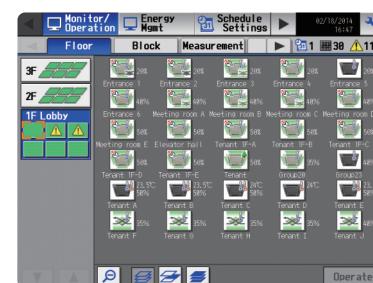
AT-50B Scheduling



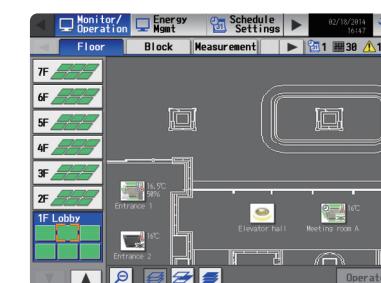
AE-200E Home Screen 1



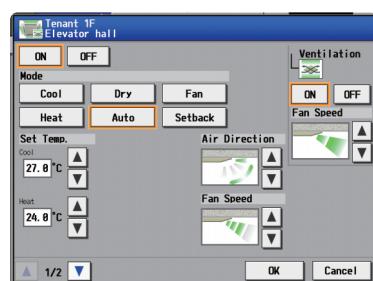
AE-200E Home Screen 2



AE-200E Home Screen 3



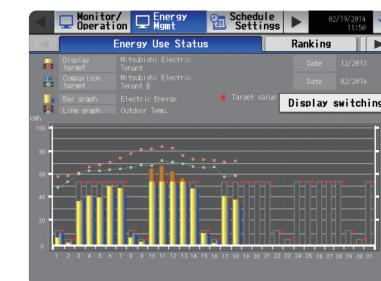
AE-200E Indoor Unit Settings



AE-200E Monitoring



AE-200E Energy Monitoring



AE-200E Screen Examples

AE-200E HTML5 Web Page Examples

Home Screen

Group Screen

Floor Layout

Scheduling

Energy Display

Energy Graph

AE-200E HTML5 Mobile Examples

Home Screen
Batch operation
Click to operate all groups at once

Batch Control
Advanced settings

Individual Control
Cancel Send

Detailed Control
Advanced settings

How to Quote

How to quote an AE-200E System Controller with Energy Monitoring

How to quote Basic Energy Measurement



START

SETUP ONBOARD PI 1-4 ON AE-200E & EW-50E

Setup on AE-200E screen kWh pulse weight and onboard PI 1-4 inputs or PAC-YG60MCA PI inputs

CONNECT kWh METER PULSE TO ONBOARD PI 1-4 OR QUOTE PAC-YG60MCA PI CONTROLLER

Connect 1no kWh meter per AE-200E / EW-50E onboard PI port or to PAC-YG60MCA PI Ports

BASIC ENERGY DISPLAYED IN AE-200E MEASUREMENT SCREEN FOR AE-200E & EW-50E

Only total energy displayed on AE-200E screen



How to quote Energy Apportioning



START

QUOTE FOR 1-4 x EW-50E FOR M-NET CONNECTION

Only EW-50E can be used for M-NET connection

QUOTE FOR 1 x AE-200E. QUOTE FOR 1 x AE-200E-ENERGY PIN CODE

All control available via AE-200E screen

LAN CONNECT AE-200E & EW-50E

LAN connect all centralised controllers together with CAT5/6 cable - max 100m distance from each AE-200E/EW-50E to Hub/Switch

CONNECT kWh METER PULSE TO ONBOARD PI 1-4 OR QUOTE PAC-YG60MCA PI CONTROLLER

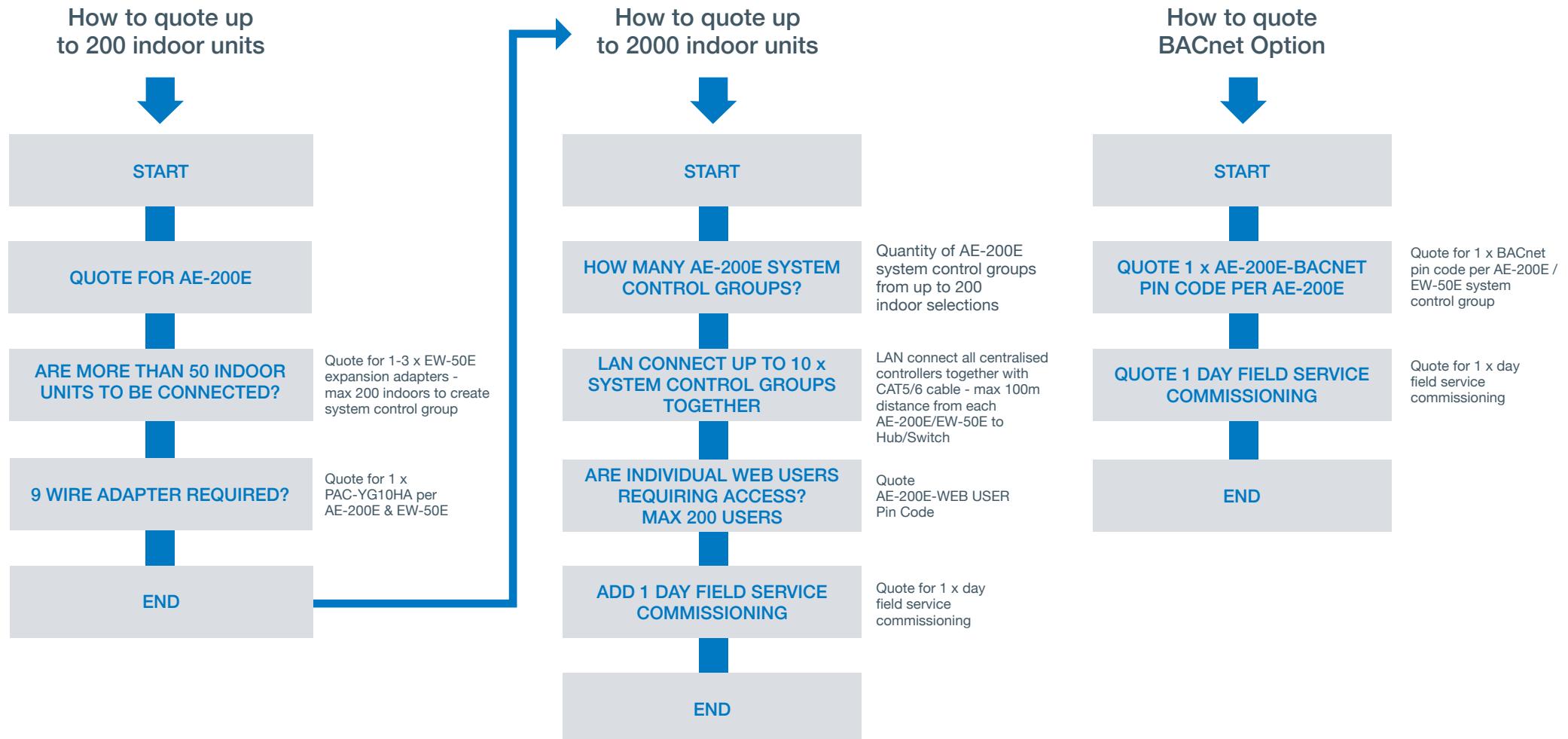
Connect 1 x kWh meter per AE-200E / EW-50E onboard PI port or to PAC-YG60MCA PI Ports

ADD 3 DAYS FIELD SERVICE COMMISSIONING

Quote for 3 x days field service commissioning



How to Quote





Services

Support at every step of the way





Support at every step of the way

At Mitsubishi Electric, we have not only developed an innovative range of cooling, heating, ventilation and control solutions, we have also examined how we support the market throughout the complete lifecycle of our products - from cradle to grave.

Whether in pre-sales design and specification, installation, or service and maintenance support, right through to our recycling programme, we can offer solutions that deliver the quality and excellence you would expect to make a world of difference.

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Services and Support

MELSMART
TECHNICAL SERVICES

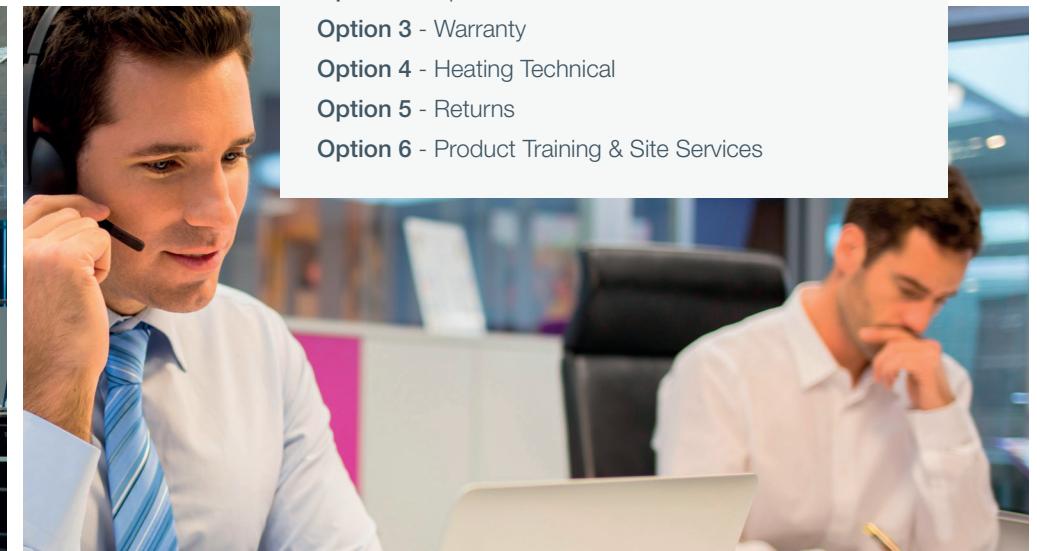
MELSmart Technical Services

Advanced, reliable technical support at every step of the way

Meeting today's energy challenges for our commercial premises demands more integrated thinking from everyone involved in the design, supply, installation, commissioning and maintenance of essential building services - whether it is for an individual property or a national estate.

Ever increasing energy bills, the need to reduce carbon emissions and a raft of challenging legislation are driving the demand for increased energy efficiency and control in the cooling, heating, ventilation and associated technologies that we use.

As a manufacturer, we realise that product development alone is not enough. To keep our products working at their optimum, we have developed the MELSmart approach to ensure our customers are able to maximise the energy efficiency of their building's services right from the start.



MELSmart offers a range of support that includes:

- Site Services
- 24/7/365 Technical Help Desk
- Spare Parts, Warranty & Returns
- CPD Accredited Technical Product Training

Whatever the challenge, we're here to help you meet it.

MELSmart Customer Services & Support

Telephone: 0161 866 6089

- Option 1 - Air Conditioning Technical
- Option 2 - Spares
- Option 3 - Warranty
- Option 4 - Heating Technical
- Option 5 - Returns
- Option 6 - Product Training & Site Services

Fault Finding

Our Fault Finding service is carried out on new and existing installations to identify problems and offer resolutions to ensure the system is returned to a fully operational condition in the shortest possible timeframe.

Our Fault Finding service is available across our entire product range. During the Fault Finding process, our engineers will carry out assessments of the following to determine a resolution:

- System design, application and specification
- Standard of installation
- Operational performance of equipment
- Current and historic fault codes

Product	Detail
Air Conditioning	One day per reported fault
Controls	One day per reported fault
Hybrid VRF	One day per reported fault
e-Series Chillers	One day per reported fault
Commercial Heating	One day per reported fault

Note: Whilst our engineers will carry out a thorough assessment of the system and provide recommendations to rectify any issues, they do not carry spare parts and cannot provide a same day resolution in the event of part failure. If equipment failure due to manufacturing is discovered, no cost will be raised and the visit will be carried out F.O.C. It is the responsibility of the customer to provide access to all of the affected equipment on site. Whilst our engineer will identify any installation and setup issues that are affecting performance, it is the responsibility of the contractor to rectify any problems.



Services and Support

Commissioning

Our assisted commissioning service is aimed at both new and existing customers; the objective is to demonstrate how to commission our systems effectively, so that customers can carry out these tasks unassisted in the future.

Our commissioning service is available across our full product range including: **Air Conditioning, Controls, Hybrid VRF, e-Series Chillers and Commercial Heating products.**

During the commissioning process, our engineers will carry out the following tasks:

- Comprehensive inspection of the installed system to ensure the system meets Mitsubishi Electric specification
- Check the system addressing and advise on any incorrect settings
- For systems other than controls we will operate in both cooling and heating modes where applicable and record temperatures, pressures and water flow rates for the system
- Supervise the completion of commissioning logbooks



Type of Commissioning	Detail	Control System	Commissioning Days	Charge Pin Codes	Bacnet Pin Code
Air Conditioning	Max 3 City Multi systems per day	1 x AE-200E + 1-4 EW-50E	1 day	1 - 5	1 - 5
Controls	1 x AE-200 and up to 4 x EW-50E per day	2 x AE-200E + 1-4 EW-50E	2 days	1 - 10	1 - 10
Hybrid VRF	½ day pre installation visit ½ day mid installation visit 2 day commissioning visit	3 x AE-200E + 1-4 EW-50E	3 days	1 - 15	1 - 15
e-Series	Max 4 chillers per day	4 x AE-200E + 1-4 EW-50E	4 days	1 - 20	1 - 20
Commercial Heating	Max 3 units per day*	5 x AE-200E + 1-4 EW-50E	5 days	1 - 25	1 - 25

Whilst our engineer will supervise the successful completion of all tasks and address any questions or skill gaps that present themselves, it is the responsibility of the installing contractor under supervision to carry out all of the listed tasks. Whilst our engineer will supervise the successful completion of the commissioning logbooks, it is the responsibility of the customer to complete and submit the commissioning logbooks to Mitsubishi Electric unless specified.

*Transit bolts must be removed before we arrive on site. If transit bolts are not removed additional time and cost may be incurred.

Health Checks

Our Health Check service is carried out on existing installations to ensure that the system is operating within our design parameters. The service is available to both new and existing customers and the objective is to establish a fully operational system.

Our Health Check service is available for the following product ranges: Air Conditioning including Hybrid VRF, e-Series Chillers and Commercial Heating products. During the Health Check process, our engineers will carry out the following tasks:

- Comprehensive visual inspection of the installed system to ensure the system meets Mitsubishi Electric specification
- Check the system addressing and advise on any incorrect settings
- Full operation in both cooling and heating modes where applicable
- Record operating data including temperatures, pressures and water flow rates of outdoor units, BC Boxes and indoor units to determine the correct operation

Product	Detail
Air Conditioning	Up to 3 systems per day
Hybrid VRF	Up to 2 systems per day
e-Series Chillers	Up to 4 systems per day
Commercial Heating	Up to 3 systems per day

Note: Whilst our engineer will ensure the successful completion of all tasks and address any questions or skill gaps that present themselves, it is the responsibility of the contractor to provide access to all equipment. Whilst our engineer will identify any installation and setup issues that are affecting performance, it is the responsibility of the contractor to rectify any problems.



Services and Support



Product Training

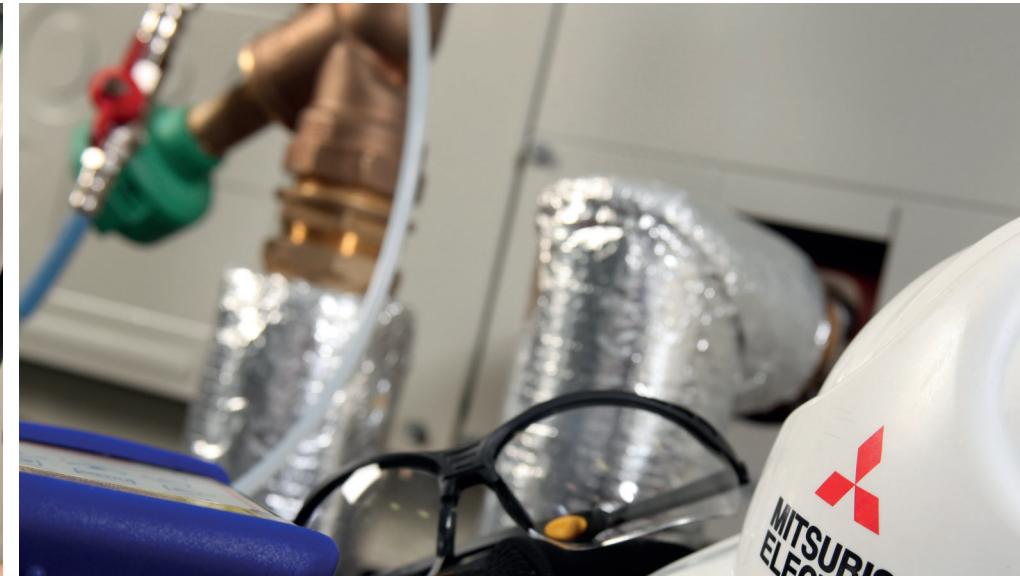
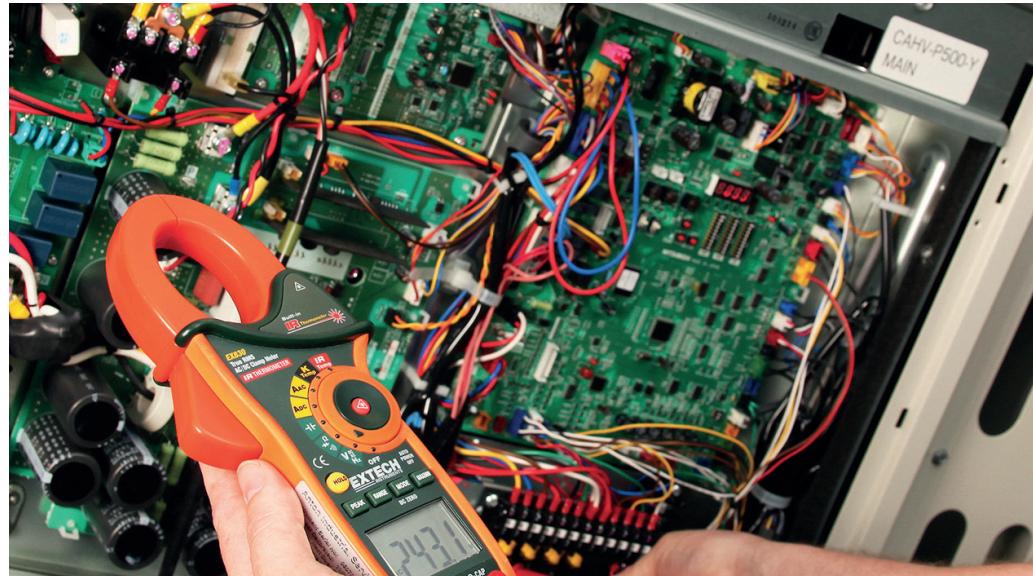
Mitsubishi Electric provide specific, in-depth training at our state-of-the-art training centres across the UK, or via our award-winning online training, covering all aspects of installation, from design through to maintenance.

Providing product training for all levels of expertise, our courses are taught by experienced engineers, with a wealth of knowledge and are all CPD accredited.



**For bookings please telephone
0161 866 6089 (Option 6, Option 1)**

Product Range	Course	Reference
City Multi (VRF)	Design and Application	CMDA
City Multi (Hybrid VRF)	Hybrid VRF Design, Application, Installation and Commissioning	HVRF
City Multi	Installation and Commissioning	CMPT1
City Multi	Service and Fault Finding	CMPT2
City Multi	Monitor Tool	MT
M Series and Mr Slim	Installation, Service and Fault Finding	MPISF
Ecodan	Design and Application Part 1	ED&A
Ecodan	Installation and Commissioning Part 2	EI&C
Ecodan	Service and Fault Finding Part 3	ES&FF
Ecodan	Re-skill	ERS
Ecodan	Hands-on	EHO
Ecodan	Commercial Heating (CAHV)	CH
Lossnay	Design, Application, Installation and Commissioning	LOSSNAY



City Multi Stripdown

For installations where the City Multi outdoor unit(s) cannot be moved to the final location, Mitsubishi Electric offer a City Multi strip down service. Other products are available on request, please contact us for further information should you have a specific strip down requirement.

Product Range	Model Reference	Product Range	Model Reference
	<p>PURY-EM/EP YNW-A1/2 PURY-M/P YNW-A1/2 Small Module PUHY-M/P YNW-A1/2</p>		<p>PURY-EM/EP YNW-A1/2 PURY-M/P YNW-A1/2 Extra Large Module PUHY-P YNW-A2</p>
	<p>PURY-EM/EP YNW-A1/2 PURY-M/P YNW-A1/2 Large Module PUHY-P YNW-A2</p>		<p>PQRY-P YLM-A1 PQHY-P YLM-A1</p>

Services and Support

Chiller Service and Maintenance for Central Plant and IT Cooling

We are now able to bring Mitsubishi Electric quality to your service and maintenance contract, using the very latest technology for in-field reporting and diagnostics. Our highly trained and qualified chiller service and maintenance engineers are based nationwide, operating from our network of service offices. Our engineers are experienced in the servicing, maintenance and repair of chiller systems across the industry.

What we do:

- Comprehensive service and maintenance plans
- National coverage (four dedicated service centres)
- Fast response times
- Reactive-response and call-out service
- Spare parts
- F-Gas and REFCOM Elite accredited engineers
- 24/7 365 emergency call out service
- Service and maintenance for all manufacturers' applied products
- Commissioning / Start-up
- System checks
- Fault finding
- Extended warranties
- Strip-downs (model / application specific)



For further information and Service & Maintenance enquiries:

Hatfield: 01707 278683

Birmingham: 07443 370023

Manchester: 0161 866 6070

Scotland: 01786 450348

Spare Parts Enquiries (CV/RCIT products):
cvsparcs@meuk.mee.com

Email:

melsmartservicelondon@meuk.mee.com

melsmartservicebirmingham@meuk.mee.com

melsmartservicemanchester@meuk.mee.com

melsmartservicestirling@meuk.mee.com

Design and Consulting Services

As part of the Mitsubishi Electric commitment to supporting robust application of our leading technologies, a team of consultant sales professionals work nationally with mechanical building services specifiers and consultants to achieve early engagement in project design.

Clients are able to apply cooling, heating, ventilation and controls confidently within their individual projects, with the emphasis on a solution-based philosophy to support 'as-designed' performance and efficiencies.

This approach helps projects realise 'as-specified' performance and efficiency levels - all designed to achieve the most efficient and cost-effective outcome for the building operator, whilst reducing the overall environmental impact.

As initial designs move from the drawing board through planning, procurement, installation and commissioning, to on-going operation and use, we work closely with our customers to balance capital expenditure, system efficiencies, installation costs, control strategies and running costs.



Working in the real world

At Mitsubishi Electric, we understand the real-world pressures of delivering commercial projects for your clients. Our dedicated team can support M&E contractors and help you tackle the challenges associated with a range of projects, including change of building layout (design evolution) without compromising the original design or performance criteria.

We also understand the link between effective design and achieving the best outcomes for building owners, operators, and users. The goal of our team is therefore to ensure robust design and implementation; every step of the way, from concept to commissioning.

Getting the right balance between capital cost, system efficiencies, installation costs and operating costs are key areas where we can support you. Each Business Development Manager has extensive product knowledge and application experience and is here to help with everything, including guidance on new and changing legislation.



Services and Support

Mitsubishi Electric Partner Programme

The Mitsubishi Electric Partner Programme is inclusive and open to all qualifying air conditioning and heating installation companies, large or small.

Using the world-renowned Mitsubishi Electric brand, we will train, support and promote all qualifying companies as part of our aim to drive the industry forwards. Mitsubishi Electric recognises the importance of forging lasting relationships with professional companies who install our equipment. Our Partner Programme enables us to do just that.

Established in 2005 and designed to raise industry standards, our industry leading Partner Programme assures end users of a consistently high level of installation and after sales service that supports our systems. To be eligible to join our scheme in the first instance, prospective installation partners must comply with the necessary building regulations and meet specific industry, programme and CSR standards.

All partners are reviewed on a regular basis to ensure they continue to meet the required standards that makes them eligible to be part of the Mitsubishi Electric Partner Programme.

The screenshot shows the Mitsubishi Electric UK website's Partner Programme page. At the top, there's a navigation bar with links for Home, Hub, About, Contact, Help & Support, Log in / Register, and a search icon. Below the header, there's a banner with a photo of an air conditioning unit and the text "Partner Programme". A sub-section titled "Am I Eligible?" provides details about the programme's purpose and requirements, including a list of criteria for becoming an installer. Another section, "Different Partnership Levels", lists three levels: ACCREDITED INSTALLER, BUSINESS SOLUTIONS PARTNER, and DIAMOND QUALITY PARTNER, with "Air Conditioning" listed under ACCREDITED INSTALLER.

How to apply for the Partner Programme:
Speak to your Mitsubishi Electric Representative
or email partner@meuk.mee.com



Partner Programme Benefits

■ Dedicated Partner Programme Team

Our dedicated Partner Programme Team are on hand to give Partners the support they need.

■ Mitsubishi Electric Customer Portal

We have developed our Customer Portal to help our Partners grow their business by enhancing their online presence on channels such as social media and via their own website. Product images, social media copy, easy to follow strategy guides and marketing training videos are just a few examples of free content that can be downloaded.

Take a look today and see how you can use this to grow your business:

les.mitsubishielectric.co.uk/customer-portal

■ Joint Marketing / Relationship Development Fund (RDF)

We will work with Partners to promote our relationship and generate awareness of the unique business benefits of the Partner Programme to end-users. We operate a Partner Programme Relationship Development Fund (RDF) allocated in relation to their commercial activities with Mitsubishi Electric.

You can submit your claims forms and check your RDF balance online at:

les.mitsubishielectric.co.uk/customer-portal/make-a-claim

■ Digital Marketing Packages

We're able to offer an exclusive and flexible digital marketing package for our partners, using their RDF to increase their brand awareness.

■ Online Workwear and Promotional Goods Portal

Partners can take advantage of their RDF to enhance their company image with dual branded work wear and promotional items.

les.mitsubishielectric.co.uk/customer-portal/promotional-goods

■ Product and Industry Training

Our Partners receive a free allocation of training courses and additional courses can be funded from the Relationship Development Fund.

■ Carbon Audits

Partners are invited to use their RDF to conduct a Carbon Audit of their business, a crucial step on the road to net zero.

■ 24hr Technical Support

To assist our Partners in the maintenance of our equipment, we have a dedicated technical support team who will endeavour to speedily diagnose faults and offer solutions to the problems our Partners may encounter.

■ Find An Installer

Mitsubishi Electric works to promote our partners through our 'Find an installer' web page, highlighting specific Partners to contact, depending on the type of project a consumer has.

■ Extended Warranty

We will offer all Partners who adhere to our standards exclusive extended product warranties.

■ Business Support Tools

We have made it easier to do business with Mitsubishi Electric through the introduction of new technologies and our business tools available to Partners.

■ Factory Visits & Events

Our Partners and their clients will have the opportunity to witness first-hand the manufacture of air conditioning and Ecodan units at our manufacturing facility in Scotland.

We organise regular factory visits to our manufacturing facility in Scotland, along with other events designed to develop our Partners expertise and support them in growing their business.



Services and Support

Mitsubishi Electric Deliveries

At Mitsubishi Electric, we realise that our customers' businesses can depend on getting the right equipment on site at the right time.

That's why we have developed a comprehensive and flexible delivery programme with one of the longest delivery windows in the industry. With the ability to offer timed, weekend and Public Holiday deliveries, coupled with free 'Text Ahead' and 'Ring Ahead' functions, we aim to keep our customers informed every step of the way.

Delivery Notes

- Cut off for next day deliveries is 1.00pm on the working day prior to delivery, or 2.30pm for orders placed via e-shop
- Standard weekday delivery is between 8.00am and 5.30pm for pallet deliveries, and 7.00am and 7.00pm for parcel deliveries
- AM / PM / Timed / Weekend / Public Holiday deliveries are all available (additional notice needed and charges will apply - please refer to full delivery guidelines for further details)
- Standard delivery will normally be made on an 18T rigid lorry equipped with a tail lift and a single driver with a pump truck
- Other vehicle types will be utilised dependant on any site access issues and delivery size
- If there are access restrictions at your nominated delivery point and a vehicle other than an 18T lorry is required, this will need to be booked in advance and a charge may apply
- Our 'Text Ahead' and 'Ring Ahead' functions are available on most deliveries. For parcel providers, we offer 'Text Ahead' only
- Deliveries available via HIAB (Flatbed vehicle with crane) / with chapter 8 signage - require 48 hours' notice and extra charges may apply
- We offer a 2-man delivery service, removal of packaging and a stair walker - these require 48 hours' notice and extra charges will apply
- Mitsubishi Electric is an Associate Member of the Fleet Operator Recognition Scheme (FORS) and our dedicated fleet vehicles are FORS accredited to Bronze level
- Collection is also available from our Milton Keynes warehouse - this must be pre-arranged and require at least 3 hours' notice
- Returns to be notified within 30 working days - Terms and Conditions apply
- MEHITS product deliveries are subject to alternate delivery arrangements - Terms and Conditions apply
- Please ensure shortages or damages are marked on the delivery note and notified within 3 working days

Mitsubishi Electric Website, Document Library and The Hub

Website

For further information on any of our products and services please visit our website: les.mitsubishielectric.co.uk which has been designed to provide a detailed overview of the energy saving solutions we can provide you.

Document Library

Our website: library.mitsubishielectric.co.uk features all current operating and installation manuals, as well as product literature, case studies, CPD guides and more. There is no requirement for visitors to login to our sites to download the latest product and technical information. A document library app is also available allowing visitors to access this information simply from their tablet or smart phone.



The Hub - online content portal

The Hub is a new approach from Mitsubishi Electric which offers useful and informative comments and articles from both leading independent editors and technical experts on the issues affecting the built environment, please visit: thehub.mitsubishielectric.co.uk

CPD Information Guides

Mitsubishi Electric is accredited by the Construction CPD Certification Service in many different areas, aimed at enhancing the knowledge of its customers and providing a view of the key issues facing our industry today.

We have produced a number of Industry Information Guides that are available to download from our Document Library. We also run a number of CPD seminars and training courses across the UK. **To find out more, simply contact your local Mitsubishi Electric sales office.**



Sales Contacts



Corporate Sales

Tel: 0870 3000 070

Birmingham

Tel: 0121 329 1970

Bristol

Tel: 01454 202050

Wakefield

Tel: 01924 241120

London North & East Anglia

Tel: 01707 282480

London South

Tel: 01737 387170

Manchester

Tel: 0161 866 6060

Scotland

Tel: 01506 444960

Ireland

Tel: +353 (0)1 419 8800



Telephone: 01707 282880

MELSmart Customer Services & Support: 0161 866 6089

Option 1 - Air Conditioning Technical

Option 4 - Heating Technical

Middlesex: 020 8783 1008

Option 2 - Spares

Option 5 - Returns

Scotland: 01786 450 348

Option 3 - Warranty

Option 6 - Product Training & Site Services

email: livingenvironmentalsystems@meuk.mee.com

website: les.mitsubishielectric.co.uk

UNITED KINGDOM Mitsubishi Electric Europe Living Environment Systems Division

Travellers Lane, Hatfield, Hertfordshire, AL10 8XB, England

General Enquiries Telephone: 01707 282880 Fax: 01707 278881

IRELAND Mitsubishi Electric Europe Westgate Business Park, Ballymount, Dublin 24, Ireland

Telephone: Dublin (01) 419 8800 Fax: Dublin (01) 419 8890 International code: (003531)

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Note: The fuse rating is for guidance only. 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), R1234ze (GWP:7) or R1234yf (GWP:4). *These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No 626/2011 from IPCC 3rd edition, these are as follows. R410A (GWP:1975), R32 (GWP:550), R407C (GWP:1650) or R134a (GWP:1300).

SAP No. 678781



Mitsubishi Electric UK's commitment
to the environment

Designed by Square Bear Ltd 01604 899099

