MITSUBISHI ELECTRIC

2026

Product Catalogue

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

les.mitsubishielectric.co.uk

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.

Environmental Sustainability Vision 2 0 5 0

Green Gateway



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MITSUBISHI ELECTRIC

Air Conditioning

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





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.



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. In February 2024, the European Union adopted an updated version of the F-Gas regulations, which put in place a steeper phase-down programme for higher GWP refrigerants than its predecessor. This landmark ruling has one key objective: to phase out the consumption of hydrofluorocarbons (HFCs) by 2050, by cutting the availability of 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). Although the UK has not yet adopted the 2024 EU F Gas regulation, it is important to consider the new programme of phase downs adopted across the EU as it will have an impact on systems specified and installed in the UK, and the UK government has stated that it will follow the EU path in future.

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



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 and utilises R32 refrigerant. 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.

100% WATER IN OCCUPIED SPACES

City Multi
VRF the UK's first R32 Heat Recovery & Heat Pump Systems

R32 REFRIGERANT

CITY MULTI YXM

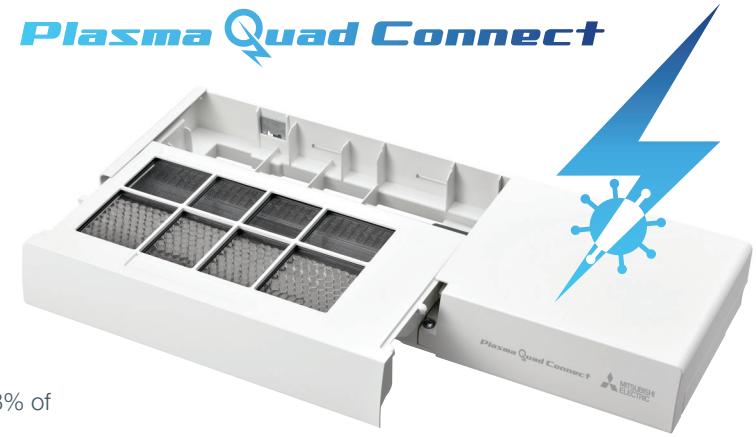




City Multi
HYBRID VRF the World's first R32 Hybrid Solution

R32 REFRIGERANT

Plasma Quad Connect



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.

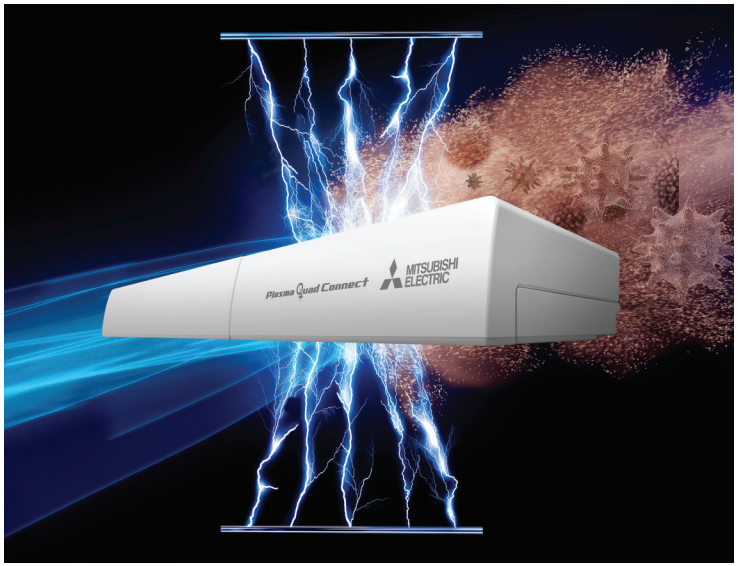
Plasma Quad Connect is the ideal solution for a broad range of applications; including hotels, education, healthcare, leisure and offices. It works like an electrical curtain to catch and neutralise even microscopic particles in the air, significantly improving indoor air quality.

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**



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



How it Works

Stage One

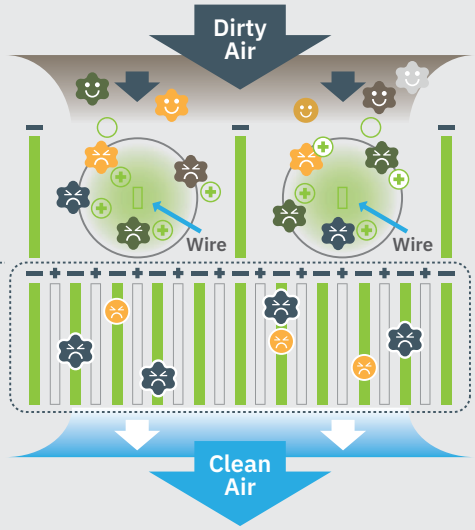
Produces plasma to:

- 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.

Energy Efficient Air Conditioning Systems

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M Series 1.2



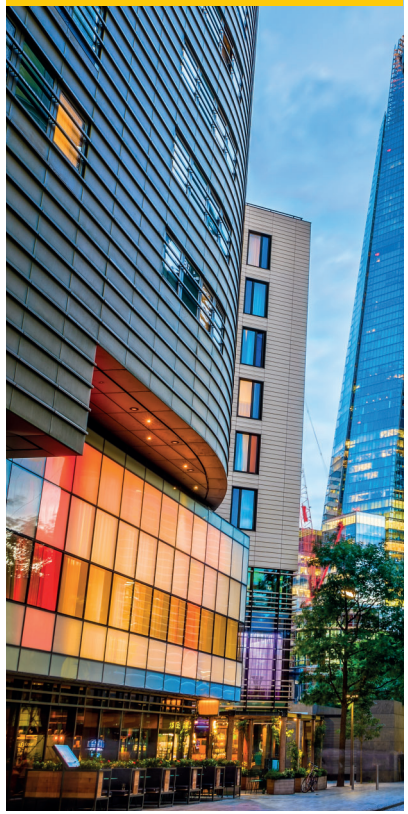
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M Series

Room Air Conditioning







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M series | Room Air Conditioning

The Adaptable **M Series Range**

R290 R32

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.



Wall Mounted Systems

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

Floor Mounted Systems

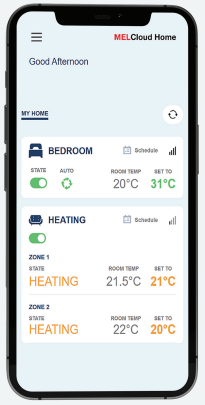
- Extremely versatile
- Designed for wall installation at floor level
- Compact design makes installation easy
- 3 models available from 2.5 - 5.0kW



Key Features

- The entire M Series range is available using either low GWP R290 or lower GWP R32 refrigerant
- Wi-Fi enabled, allowing control and monitoring via the MELCloud Home app (compatible with Amazon Alexa 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-RZ *2 R290							●	●		●		
	MSZ-LN *3 R32				●			●	●		●	●	
	MSZ-EF *4 R32				●		●	●	●		●		
	MSZ-AY/AP R32			●		●		●	●	●	●	●	●
	MSZ-HR R32							●	●		●	●	●
Floor Mounted	MFZ-KT R32							●	●		●		

*1 Multi-split only *2 Also available in matt black *3 Also available in pearl white, onyx black and natural white *4 Also available in silver and white

MSZ-RZ R290

Premium Plus Wall Mounted System

Inverter Heat Pump











The **MSZ-RZ** range blends low GWP refrigerant, with a high heating performance efficiency in low outdoor temperatures. Excellent air purifying functions, low noise levels and many other smart features makes it an excellent choice. The indoor unit comes in white or matt black colour options.

Key Features & Benefits

- Utilises R290 low GWP refrigerant, reducing environmental impact, supporting sustainability and helping achieve CSR targets
- Integrated refrigeration sensor, providing early detection of leaks and enhancing occupant safety
- 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 Home app; plus voice control - compatible with Amazon Alexa enabled devices
- Excellent heating performance delivers warmth to your room at low ambient outdoor temperatures
- 'Circulator' mode to automatically circulate the air and eliminate cold spots
- User-friendly backlit controller for remote operation, including scheduling options

R290

MSZ-RZ - INDOOR UNITS		MSZ-RZ25VU(B)	MSZ-RZ35VU(B)	MSZ-RZ50VU(B)
CAPACITY (KW)	Heating (nominal)	3.2 (0.8-5.4)	4.0 (1.1-6.3)	6.0 (1.8-8.7)
	Cooling (nominal)	2.5 (0.9-3.5)	3.5 (1.0-4.0)	5.0 (1.4-5.8)
	Heating (UK)	2.62 (0.66-4.43)	3.28 (0.9-5.17)	4.92 (1.48-7.13)
	Cooling (UK)	2.5 (0.9-3.5)	3.5 (1.0-4.0)	5.0 (1.4-5.8)
SHF (nominal)		1.00	0.92	0.81
COP / EER (nominal)		5.50 / 5.60	4.90 / 4.50	4.10 / 3.60
SCOP / SEER (BS EN14825)		5.3 / 11.7	5.2 / 9.6	4.7 / 7.6
ErP ENERGY EFFICIENCY CLASS	Heating/Cooling	A+++ / A+++	A+++ / A+++	A++ / A++
AIRFLOW (l/s)	Heating (SLo-Lo-Mi-Hi-SHi)	85-130-158-195-235	85-130-158-195-255	130-178-208-245-303
	Cooling (SLo-Lo-Mi-Hi-SHi)	85-108-150-175-195	85-115-150-192-235	130-158-185-218-270
PIPE SIZE MM (in)	Gas	9.52 (3/8")	9.52 (3/8")	12.7 (1/2")
	Liquid	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
SOUND PRESSURE LEVEL (dBA)	Heating (SLo-Lo-Mi-Hi-SHi)	19-25-30-36-41	19-25-30-36-42	25-32-37-41-46
	Cooling (SLo-Lo-Mi-Hi-SHi)	19-23-29-36-42	19-24-29-36-43	26-30-34-39-45
SOUND POWER LEVEL (dBA)		58	59	59
DIMENSIONS (mm)	Width x Depth x Height	998 x 247 x 305	998 x 247 x 305	998 x 247 x 305
WEIGHT (kg)		14.4	14.4	14.6
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

Notes: Black (B).

MUZ-RZ- OUTDOOR UNITS		MUZ-RZ25VU	MUZ-RZ35VU	MUZ-RZ50VUHZ
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	49 / 46	50 / 49	54 / 51
SOUND POWER LEVEL (dBA)	Cooling	60	61	64
WEIGHT (kg)		37.5	39.5	58
DIMENSIONS (mm)	Width x Depth x Height	800 x 285 x 714	800 x 285 x 714	840 x 330 x 880
ELECTRICAL SUPPLY		220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
PHASE		Single	Single	Single
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal)	0.58 / 0.45	0.81 / 0.77	1.45 / 1.38
	Heating/Cooling (UK)	0.53 / 0.38	0.74 / 0.65	1.32 / 1.17
STARTING CURRENT (A)		2.9	3.8	5.9
SYSTEM RUNNING CURRENT (A)	Heating/Cooling [MAX]	2.5 / 2.0 [9.8]	3.5 / 3.3 [9.9]	6.3 / 6.0 (15.7)
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) - R290 (GWP 0.02)		0.39 / 0.0000078 (10m)	0.39 / 0.0000078 (10m)	0.70 / 0.000014 (15m)
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (t) - R290 (GWP 0.02)		0.10 / 0.000002	0.10 / 0.000002	0.15 / 0.000003

* 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-882SG

Air outlet guide for MUZ-RZ25/35VU

MAC-890SG-E

Air outlet guide for MUZ-RZ50VUHZ

System Control Units

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB = Premium Finish)

PAR-42MAAB/MAAPB

Standard wired remote controller (MAAPB = Black Finish)

MAC-334IF-E

Interface for M-NET, MA remote controller
(PAR-42MAAB / PAR-CT01MAA),
on/off input and run/fault output

MAC-497IF-E

Interface for MA remote controller
(PAR-42MAAB / PAR-CT01MAA)

MELCOBEMS MINI (A1M+)

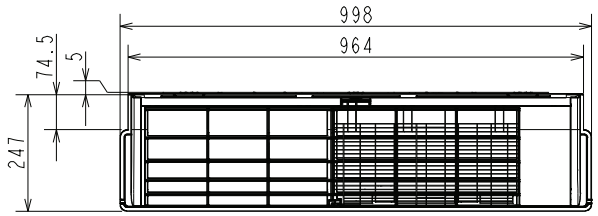
Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

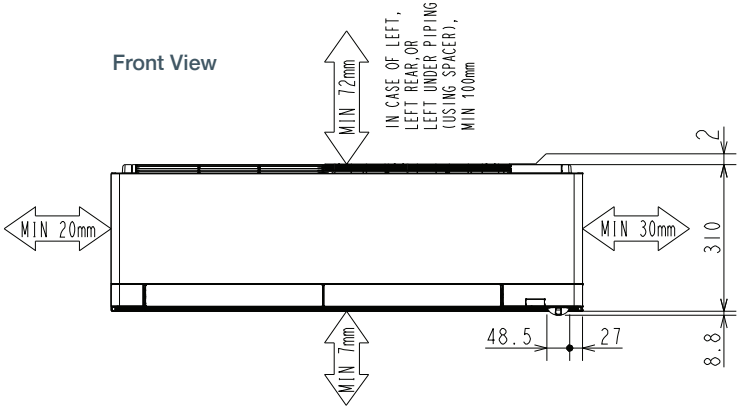
Retail control and input / output interface

Product Dimensions MSZ-RZ25/35/50VU(B)

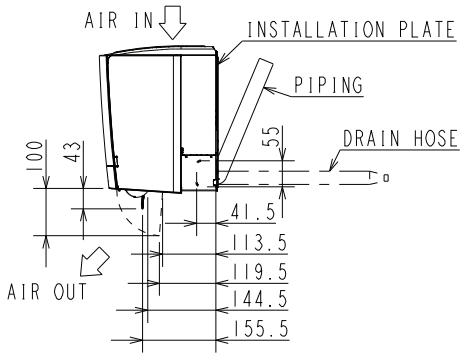
Upper View



Front View



Side View



MSZ-LN R32

Premium Wall Mounted System

Inverter Heat Pump



Ruby Red (R)



Onyx Black (B)



Pearl White (V)



Natural White (W)







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 Home app; plus voice control - compatible with Amazon Alexa 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

GOOD DESIGN AWARD

R32

MSZ-LN - INDOOR UNITS		MSZ-LN18VG3 R/B/V/W	MSZ-LN25VG3 R/B/V/W	MSZ-LN35VG3 R/B/V/W	MSZ-LN50VG3 R/B/V/W	MSZ-LN60VG3 R/B/V/W
CAPACITY (KW)	Heating (nominal)	2.0 (0.9-4.0)	3.2 (0.7-5.4)	4.0 (0.9-6.3)	6.0 (1.0-8.2)	6.8 (1.8-9.3)
	Cooling (nominal)	1.8 (0.9-3.0)	2.5 (1.0-3.5)	3.5 (0.8-4.0)	5.0 (1.0-6.0)	6.1 (1.4-6.9)
	Heating (UK)	-	2.64 (0.58-4.45)	3.3 (0.74-5.2)	4.94 (0.82-6.75)	5.6 (1.48-7.66)
	Cooling (UK)	-	2.48 (0.99-3.47)	3.47 (0.79-3.96)	4.95 (0.99-5.94)	6.05 (1.38-6.84)
SHF (nominal)		-	0.97	0.90	0.77	0.75
COP / EER (nominal)		-	5.33 / 5.15	4.88 / 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)	75-110-125-183-232	75-110-125-183-232	75-110-125-183-232	90-107-143-202-262	110-158-192-227-262
	Cooling (SLo-Lo-Mi-Hi-SHi)	78-98-118-153-207	78-93-113-142-207	78-93-113-142-217	95-127-148-177-232	118-148-177-212-262
PIPE SIZE MM (in)	Gas	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	12.7 (1/2")
	Liquid	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
SOUND PRESSURE LEVEL (dBA)	Heating (SLo-Lo-Mi-Hi-SHi)	19-24-29-38-45	19-24-29-38-45	19-24-29-38-45	25-29-34-41-47	29-37-41-45-49
	Cooling (SLo-Lo-Mi-Hi-SHi)	19-23-29-36-42	19-23-29-36-42	19-24-29-36-43	27-31-35-39-46	29-37-41-45-49
SOUND POWER LEVEL (dBA)		58	58	59	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 (R/B/V) / 14 (W)	15 (R/B/V) / 14 (W)	15 (R/B/V) / 14 (W)	15.5 (R/B/V) / 14.5 (W)	15.5 (R/B/V) / 14.5 (W)
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-LN18VG3 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-LN25VG3	MUZ-LN35VG3	MUZ-LN50VG3	MUZ-LN60VG3
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)		-	32	34	40	51.5
DIMENSIONS (mm)	Width x Depth x Height	-	800 x 285 x 550	800 x 285 x 550	800 x 285 x 714	840 x 330 x 880
ELECTRICAL SUPPLY		-	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
PHASE		-	Single	Single	Single	Single
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal)	-	0.600 / 0.485	0.820 / 0.820	1.480 / 1.380	1.810 / 1.790
	Heating/Cooling (UK)	-	0.541 / 0.406	0.740 / 0.686	1.335 / 1.151	1.632 / 1.494
STARTING CURRENT (A)		-	3.4	3.8	6.8	7.9
SYSTEM RUNNING CURRENT (A)	Heating/Cooling [MAX]	-	3.4 / 2.7 [7.1]	3.8 / 3.8 [9.9]	6.8 / 6.3 [12.6]	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)		-	0.8 / 0.54 (10m)	0.85 / 0.58 (10m)	1.25 / 0.85 (15m)	1.45 / 0.98 (7m)
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (t) - R32 (GWP 675)		-	0.20 / 0.14	0.20 / 0.14	0.30 / 0.21	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-286RH-E

Natural white remote controller holder

Outdoor Units

MAC-881SG

Air outlet guide for MUZ-LN25/35VG3

MAC-882SG

Air outlet guide for MUZ-LN50VG3

MAC-890SG-E

Air outlet guide for MUZ-LN60VG3

System Control Units

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB = Premium Finish)

PAR-42MAAB/MAAPB

Standard wired remote controller (MAAPB = Black Finish)

MAC-334IF-E

Interface for M-NET, MA remote controller (PAR-42MAAB / PAR-CT01MAA), on/off input and run/fault output

MAC-497IF-E

Interface for MA remote controller (PAR-42MAAB / PAR-CT01MAA)

MELCOBEMS MINI (A1M+)

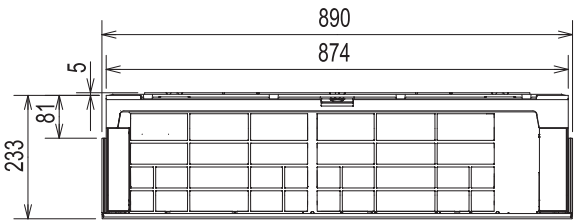
Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

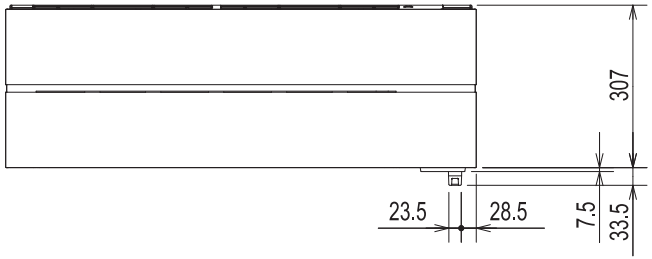
Retail control and input / output interface

Product Dimensions MSZ-LN18/25/35/50/60VG3 R/B/V/W

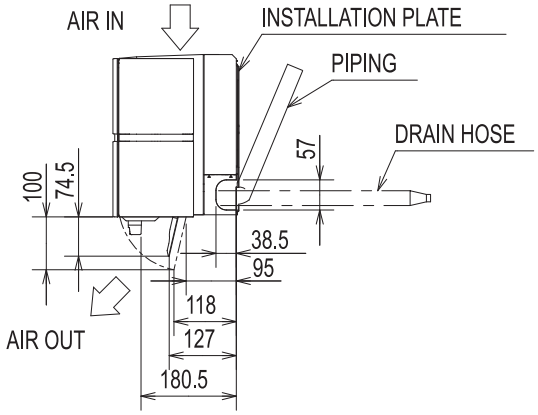
Upper View



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 Home app; plus voice control - compatible with Amazon Alexa 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

R32

MSZ-EF B/S/W - INDOOR UNITS		MSZ-EF18VGK2 B/S/W	MSZ-EF22VGK2 B/S/W	MSZ-EF25VGK2 B/S/W	MSZ-EF35VGK2 B/S/W	MSZ-EF50VGK2 B/S/W
CAPACITY (kW)	Heating (nominal)	2.0 (0.9 - 4.0)	2.6 (1.0-4.5)	3.2 (0.9-4.2)	4.0 (1.2-5.1)	5.8 (1.4-7.5)
	Cooling (nominal)	1.8 (0.9 - 3.0)	2.2 (1.0-3.2)	2.5 (0.9-3.4)	3.5 (1.1-4.0)	5.0 (1.4-5.4)
	Heating (UK)	-	-	2.65 (0.75-3.49)	3.32 (1.0-4.23)	4.82 (1.16-6.23)
	Cooling (UK)	-	-	2.48 (0.89-3.37)	3.47 (1.09-3.96)	4.96 (1.39-5.36)
SHF (nominal)		-	-	0.97	0.80	0.70
COP / EER (nominal)		-	-	4.57 / 4.63	4.21 / 3.85	3.72 / 3.25
SCOP / SEER (BS EN14825)		-	-	4.7 / 9.1	4.6 / 8.8	4.5 / 7.5
ErP ENERGY EFFICIENCY CLASS	Heating/Cooling	-	-	A++ / A+++	A++ / A+++	A+ / A++
AIRFLOW (l/s)	Heating (SLo-Lo-Mi-Hi-SHi)	63-75-107-155-208	63-75-107-155-208	63-75-107-155-208	63-75-107-155-223	98-117-137-162-198
	Cooling (SLo-Lo-Mi-Hi-SHi)	63-75-108-145-185	63-75-108-145-185	63-75-108-145-185	63-75-108-145-185	98-117-137-162-198
PIPE SIZE mm (in)	Gas	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
	Liquid	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
SOUND PRESSURE LEVEL (dBA)	Heating (SLo-Lo-Mi-Hi-SHi)	21-24-29-37-45	21-24-29-37-45	21-24-29-37-45	21-24-30-38-46	30-33-37-43-49
	Cooling (SLo-Lo-Mi-Hi-SHi)	19-23-29-36-42	19-23-29-36-42	19-23-29-36-42	21-24-30-36-42	30-33-36-40-43
SOUND POWER LEVEL (dBA)		60	60	60	60	60
DIMENSIONS (mm)	Width x Depth x Height	885 x 195 x 299	885 x 195 x 299	885 x 195 x 299	885 x 195 x 299	885 x 195 x 299
WEIGHT (kg)		11	11	11	11	11
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-EF25VG2	MUZ-EF35VG2	MUZ-EF50VG2
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 [7.1]	4.4 / 4.2 [7.1]	7.1 / 6.9 [14.0]
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-EF25/35VG2

MAC-882SG

Air outlet guides for MUZ-EF50VG2

System Control Units

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB = Premium Finish)

PAR-42MAAB/MAAPB

Standard wired remote controller (MAAPB = Black Finish)

MAC-334IF-E

Interface for M-NET, MA remote controller (PAR-42MAAB / PAR-CT01MAA), on/off input and run/fault output

MAC-497IF-E

Interface for MA remote controller (PAR-42MAAB / PAR-CT01MAA)

MELCOBEMS MINI (A1M+)

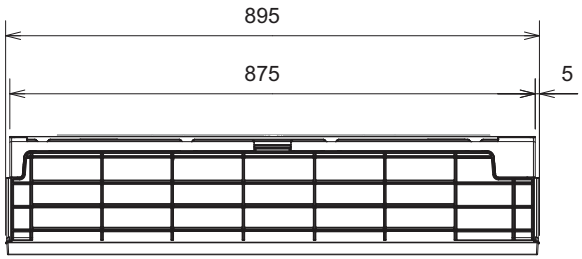
Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

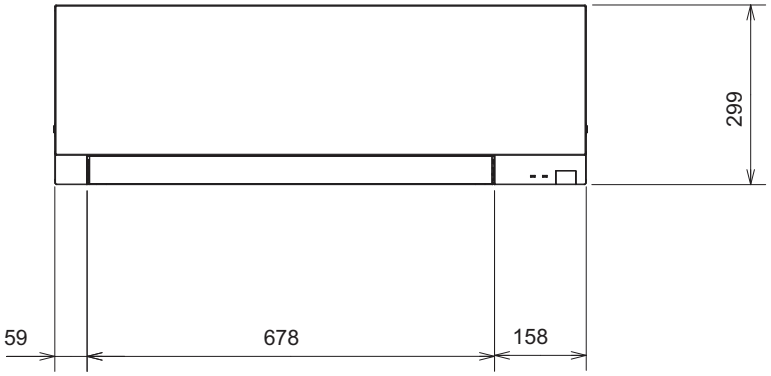
Retail control and input / output interface

Product Dimensions MSZ-EF18/22/25/35/50VGK2 B/S/W

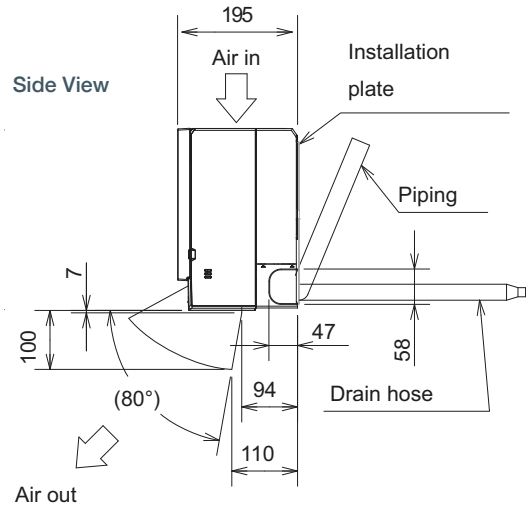
Upper View



Front View



Side View

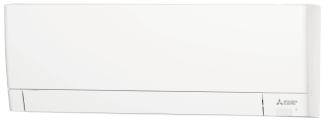


MSZ-AY / MSZ-AP R32

Elegance Wall Mounted System

Inverter Heat Pump















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

Key Features & Benefits

- Elegant and sleek design to complement multiple application types
- High seasonal efficiencies, offering energy saving and low running costs
- Low noise levels, including Night Mode setting, for minimal disturbance to occupants
- Built in Wi-Fi interface enables system control & monitoring via the Mitsubishi Electric MELCloud Home app; plus voice control - compatible with Amazon Alexa 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

R32

MSZ-AY / MSZ-AP - INDOOR UNITS		MSZ-AY15VGK2	MSZ-AY20VGK2	MSZ-AY25VGK2	MSZ-AY35VGK2	MSZ-AY42VGK2	MSZ-AY50VGK2	MSZ-AP60VGK2	MSZ-AP71VGK2
CAPACITY (KW)	Heating (nominal)	2.0 (0.5-3.1)	2.5 (0.5-3.5)	3.2 (1.0-4.1)	4.0 (1.3-4.6)	5.2 (1.3-6.0)	5.5 (1.4-7.3)	6.8 (2.0-8.6)	8.1 (2.2-10.3)
	Cooling (nominal)	1.5 (0.5-2.2)	2.0 (0.6-2.7)	2.5 (0.9-3.4)	3.5 (1.1-3.8)	4.2 (0.9-4.5)	5.0 (1.4-5.4)	6.1 (1.4-7.3)	7.1 (2.0-8.7)
	Heating (UK)	1.64 (0.4-2.5)	2.06 (0.4-2.9)	2.64 (0.8-3.4)	3.3 (1.1-3.8)	4.45 (1.1-4.9)	4.78 (1.2-6.0)	5.6 (1.6-7.1)	6.76 (1.8-8.6)
	Cooling (UK)	1.49 (0.5-2.2)	1.98 (0.6-2.7)	2.48 (0.9-3.4)	3.47 (1.1-3.8)	4.17 (0.9-4.5)	4.95 (1.4-5.3)	6.05 (1.4-7.2)	7.04 (2.0-8.6)
SHF (nominal)		-	0.80	0.92	0.88	0.77	0.74	0.83	0.77
COP / EER (nominal)		-	4.17 / 4.35	4.10 / 4.17	3.88 / 3.54	3.74 / 3.23	3.74 / 3.24	4.07 / 3.84	3.82 / 3.53
SCOP / SEER (BS EN14825)		-	4.20 / 8.60	4.80 / 8.70	4.70 / 8.70	4.70 / 7.90	4.70 / 7.50	4.60 / 7.40	4.40 / 7.20
ErP ENERGY EFFICIENCY CLASS	Heating/Cooling	-	A+ / A+++	A++ / A+++	A++ / A+++	A++ / A++	A++ / A++	A++ / A++	A+ / A++
AIRFLOW (l/s)	Heating (SLo-Lo-Mid-Hi-SHi)	47-65-75-90-102	47-65-75-90-118	67-83-110-133-197	67-83-110-133-205	73-88-115-141-216	101-106-125-151-216	180-223-257-290-338	170-192-220-255-320
	Cooling (SLo-Lo-Mid-Hi-SHi)	47-62-73-87-102	47-62-73-87-110	60-83-105-130-175	60-83-105-130-185	75-95-115-140-190	86-106-125-151-195	157-183-220-267-315	160-192-220-255-310
PIPE SIZE MM (in)	Gas	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	12.7 (1/2")	12.7 (1/2")
	Liquid	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
SOUND PRESSURE LEVEL (dBA)	Heating (SLo-Lo-Mid-Hi-SHi)	21-26-30-35-40	19-26-30-35-42	18-24-34-39-45	18-24-31-38-45	21-29-35-40-45	28-33-38-43-48	30-37-41-45-48	30-37-41-45-51
	Cooling (SLo-Lo-Mid-Hi-SHi)	21-26-30-35-40	19-26-30-35-42	18-24-30-36-42	18-24-30-36-42	21-29-34-38-42	28-33-36-40-44	29-37-41-45-48	30-37-41-45-49
SOUND POWER LEVEL (dBA)		54	57	57	57	57	58	65	65
DIMENSIONS (mm)	Width x Depth x Height	760 x 199 x 250	760 x 199 x 250	798 x 245 x 299	798 x 245 x 299	798 x 245 x 299	798 x 245 x 299	1100 x 257 x 325	1100 x 257 x 325
WEIGHT (kg)		7.9	7.9	10.5	10.5	10.5	10.5	16	17
ELECTRICAL SUPPLY		Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit
FUSE RATING (BS88) - HRC (A)		6	6	6	6	6	6	6	6
INTERCONNECTING CABLE No. CORES		4	4	4	4	4	4	4	4

MUZ-AY / MUZ-AP - OUTDOOR UNITS		MULTI-SPLIT ONLY	MUZ-AY20VG2	MUZ-AY25VG2	MUZ-AY35VG2	MUZ-AY42VG2	MUZ-AY50VG2	MUZ-AP60VG2	MUZ-AP71VG2
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	-	48 / 47	48 / 47	50 / 49	51 / 50	52 / 52	57 / 56	55 / 56
SOUND POWER LEVEL (dBA)	Cooling	-	59	59	61	61	64	65	65
WEIGHT (kg)		-	27.5	26.5	27	33	40.5	40	53
DIMENSIONS (mm)	Width x Depth x Height	-	800 x 285 x 550	800 x 285 x 550	800 x 285 x 550	800 x 285 x 550	800 x 285 x 714	800 x 285 x 714	840 x 330 x 880
ELECTRICAL SUPPLY		-	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
PHASE		-	Single	Single	Single	Single	Single	Single	Single
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal)	-	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)	-	0.54 / 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 [12.5]	7.4 / 7.1 [12.7]	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)		-	0.55 / 0.37 (7.5m)	0.55 / 0.37 (7.5m)	0.55 / 0.37 (7.5m)	0.70 / 0.47 (7.5m)	1.00 / 0.68 (7.5m)	1.05 / 0.71 (15m)	1.50 / 1.02 (15m)
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (t) - R32 (GWP 675)		-	0.25 / 0.17	0.26 / 0.18	0.26 / 0.18	0.26 / 0.18	0.26 / 0.18	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-AY20/25/35/42VG2

MAC-882SG

Air outlet guide for MUZ-AY50VG, MUZ-AP60VG2

MAC-890SG-E

Air outlet guide for MUZ-AP71VG2

System Control Units

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB = Premium Finish)

PAR-42MAAB/MAAPB

Standard wired remote controller (MAAPB = Black Finish)

MAC-334IF-E

Interface for M-NET, MA remote controller (PAR-42MAAB / PAR-CT01MAA), on/off input and run/fault output

MAC-497IF-E

Interface for MA remote controller (PAR-42MAAB / PAR-CT01MAA)

MELCOBEMS MINI (A1M+)

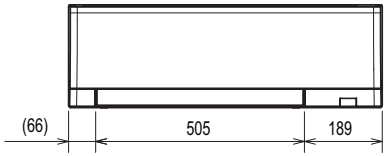
Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

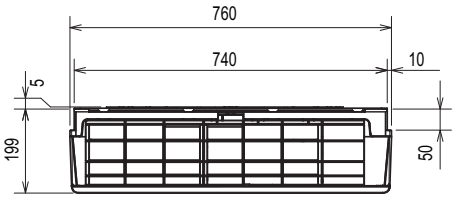
Retail control and input / output interface

Product Dimensions MSZ-AY15-20VGK2

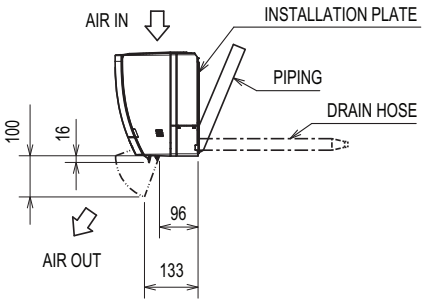
Front View



Upper View



Side View

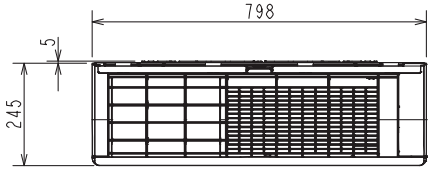


Product Dimensions MSZ-AY25-50VGK2

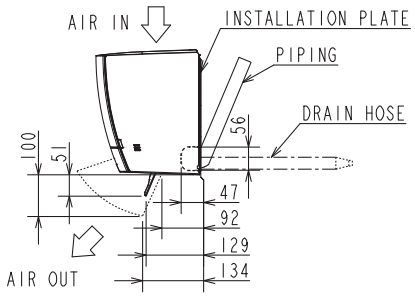
Front View



Upper View



Side View

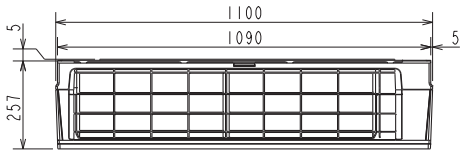


Product Dimensions MSZ-AP60-71VGK2

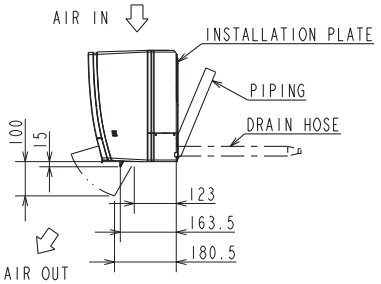
Front View



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 Wi-Fi control now as standard, these systems provide excellent value for money as single or multi-split systems.

Key Features & Benefits

- Stylish white design
- Utilises lower GWP R32 refrigerant
- Built in Wi-Fi interface enables system control & monitoring via the Mitsubishi Electric MELCloud Home app; plus voice control - compatible with Amazon Alexa enabled devices
- 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-HR25VFK2	MSZ-HR35VFK2	MSZ-HR50VFK2	MSZ-HR60VFK2	MSZ-HR71VFK2
CAPACITY (kW)	Heating (nominal)	3.15 (0.7-3.5)	3.6 (0.9-3.7)	5.4 (1.4-6.5)	6.8 (1.5-8.5)	8.1 (1.5-9.0)
	Cooling (nominal)	2.5 (0.5-2.9)	3.4 (0.9-3.4)	5.0 (1.3-5.0)	6.1 (1.7-7.1)	7.1 (1.8-7.3)
	Heating (UK)	2.61 (0.6-2.9)	2.99 (0.75-3.1)	4.48 (1.16-5.39)	5.64 (1.25-7.06)	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 (1.67-6.96)	6.96 (1.76-7.15)
SHF (nominal)		0.78	0.78	0.73	0.79	0.74
COP / EER (nominal)		3.71 / 3.13	3.60 / 2.81	3.48 / 2.44	3.76 / 3.37	3.32 / 3.05
SCOP / SEER (BS EN14825)		4.30 / 6.20	4.30 / 6.20	4.30 / 6.50	4.50 / 7.20	4.30 / 7.00
ErP ENERGY EFFICIENCY CLASS	Heating/Cooling	A+ / A++	A+ / A++	A+ / A++	A+ / A++	A+ / A++
AIRFLOW (l/s)	Heating (SLo-Lo-Mid-Hi-SHi)	50-83-117-158	50-83-117-165	102-138-187-242	178-218-278-327	178-218-278-327
	Cooling (SLo-Lo-Mid-Hi-SHi)	50-83-112-153	53-87-122-183	107-153-187-218	173-210-257-327	173-210-257-327
PIPE SIZE mm (in)	Gas	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	12.7 (1/2")	12.7 (1/2")
	Liquid	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
SOUND PRESSURE LEVEL (dBA)	Heating (SLo-Lo-Mid-Hi-SHi)	21-30-37-43	21-30-37-44	27-34-41-47	33-38-44-50	33-38-44-50
	Cooling (SLo-Lo-Mid-Hi-SHi)	21-30-37-43	22-31-38-46	28-36-40-45	33-38-44-50	33-38-44-50
SOUND POWER LEVEL (dBA)		57	60	60	65	65
DIMENSIONS (mm)	Width x Depth x Height	838 x 228 x 280	838 x 228 x 280	838 x 228 x 280	923 x 262 x 305	923 x 262 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-HR25VF2	MUZ-HR35VF2	MUZ-HR50VF2	MUZ-HR60VF2	MUZ-HR71VF2
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)		21.5	22	33.5	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	1.00 / 1.21	1.55 / 2.05	1.81 / 1.81	2.44 / 2.33
	Heating/Cooling (UK)	0.77 / 0.63	0.89 / 0.96	1.40 / 1.62	1.63 / 1.52	2.20 / 1.96
STARTING CURRENT (A)		4.1	5.9	9.0	8.0	11.8
SYSTEM RUNNING CURRENT (A)	Heating/Cooling [MAX]	4.1 / 3.8 [5.0]	4.6 / 5.9 [6.67]	6.9 / 9.0 [9.96]	8.0 / 8.0 [14.1]	11.8 / 10.3 [14.1]
FUSE RATING (BS88) - HRC (A)		10	10	16	16	16
MAINS CABLE No. CORES		3	3	3	3	3
MAX PIPE LENGTH (m)		20	20	20	30	30
MAX HEIGHT DIFFERENCE (m)		12	12	12	15	15
CHARGE REFRIGERANT (kg) / CO_2 EQUIVALENT (t) - R32 (GWP 675) - 7m		0.38 / 0.26	0.42 / 0.28	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-HR25/35VF2

MAC-881SG

Air outlet guide for MUZ-HR50VF2

MAC-882SG

Air outlet guide for MUZ-HR60/71VF2

System Control Units

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB = Premium Finish)

PAR-42MAAB/MAAPB

Standard wired remote controller (MAAPB = Black Finish)

MAC-334IF-E

Interface for M-NET, MA remote controller
(PAR-42MAAB / PAR-CT01MAA),
on/off input and run/fault output

MAC-497IF-E

Interface for M-NET, MA remote controller
(PAR-42MAAB / PAR-CT01MAA)

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

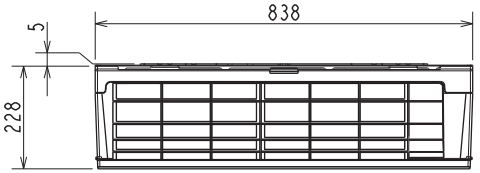
Retail control and input / output interface

Product Dimensions MSZ-HR25/35/50VFK2

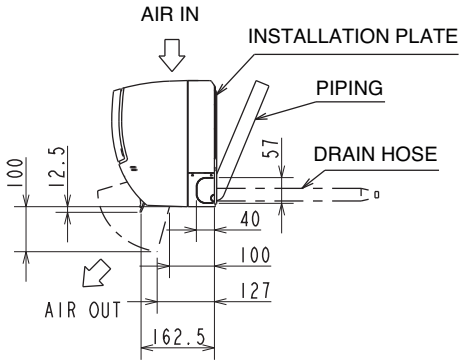
Front View



Upper View

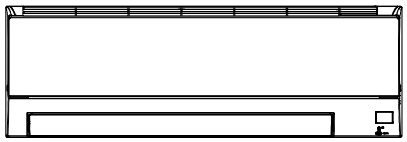


Side View

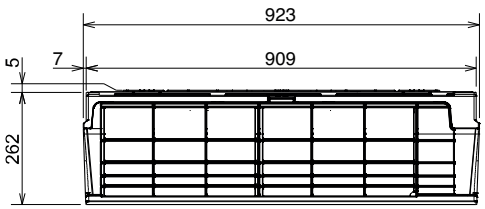


Product Dimensions MSZ-HR60/71VFK2

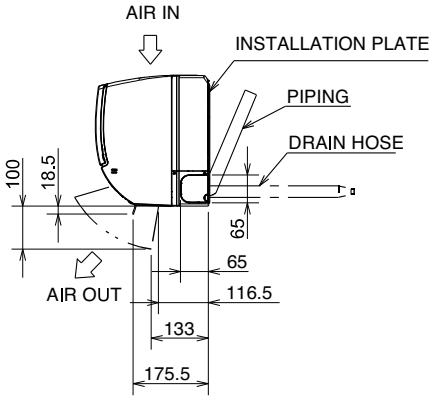
Front View



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
- Built in Wi-Fi interface enables system control & monitoring via the Mitsubishi Electric MELCloud Home app; plus voice control - compatible with Amazon Alexa enabled devices

R32









MFZ-KT - INDOOR UNITS		MFZ-KT25VGK	MFZ-KT35VGK	MFZ-KT50VGK
CAPACITY (kW)	Heating (nominal)	3.4 (1.3-4.2)	4.3 (1.1-5.0)	6.0 (1.5-7.2)
	Cooling (nominal)	2.5 (1.6-3.2)	3.5 (0.9-3.9)	5.0 (1.2-5.6)
	Heating (UK)	2.79 (1.07-3.44)	3.53 (0.9-4.10)	4.92 (1.23-5.90)
	Cooling (UK)	2.45 (1.57-3.14)	3.43 (0.88-3.82)	4.90 (1.18-5.49)
SHF (nominal)		0.79	0.70	0.72
COP / EER (nominal)		3.74 / 4.03	3.41 / 3.30	3.23 / 3.23
SCOP / SEER (BS EN14825)		4.2 / 6.5	4.4 / 6.6	4.2 / 6.8
ErP ENERGY EFFICIENCY CLASS	Heating/Cooling	A+ / A++	A+ / A++	A+ / A++
AIRFLOW (l/s)	Heating - Silent-Lo-Mi-Hi-SHi	58-67-93-122-162	58-67-93-122-162	100-128-157-193-233
	Cooling - Silent-Lo-Mi-Hi-SHi	65-80-108-130-148	65-80-108-130-148	93-112-143-173-205
PIPE SIZE mm (in)	Gas	9.52 (3/8")	9.52 (3/8")	12.7 (1/2")
	Liquid	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
SOUND PRESSURE LEVEL (dBA)	Heating/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-M25VA2	SUZ-M35VA2	SUZ-M50VA2
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	46 / 45	48 / 48	49 / 48
SOUND POWER LEVEL (dBA)	Cooling	59	59	64
WEIGHT (kg)		30	35	41
DIMENSIONS (mm)	Width x Depth x Height	800 x 285 x 550	800 x 285 x 550	800 x 285 x 714
ELECTRICAL SUPPLY		220-240V, 50Hz	220-240V, 50Hz	220-240V, 50Hz
PHASE		Single	Single	Single
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal)	0.80 / 0.71	1.07 / 1.00	1.61 / 1.54
	Heating/Cooling (UK)	0.68 / 0.61	0.91 / 0.86	1.37 / 1.32
STARTING CURRENT (A)		3.7	5.0	8.0
SYSTEM RUNNING CURRENT (A)	Heating/Cooling [MAX]	3.7 / 3.0 [6.8]	5.0 / 4.1 [8.5]	8.0 / 7.1 [13.5]
FUSE RATING (BS88) – HRC (A)		10	10	20
MAINS CABLE No. CORES		3	3	3
MAX PIPE LENGTH (m)		20	20	30
MAX HEIGHT DIFFERENCE (m)		12	12	30
CHARGE REFRIGERANT (kg) / CO_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-M25/35VA2

MAC-882SG

Air outlet guide for SUZ-M50VA2

System Control Units

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB = Premium Finish)

PAR-42MAAB/MAAPB

Standard wired remote controller (MAAPB = Black Finish)

MAC-334IF-E

Interface for M-NET, MA remote controller (PAR-42MAAB / PAR-CT01MAA), on/off input and run/fault output

MAC-497IF-E

Interface for MA remote controller (PAR-42MAAB / PAR-CT01MAA)

MELCOBEMS MINI (A1M+)

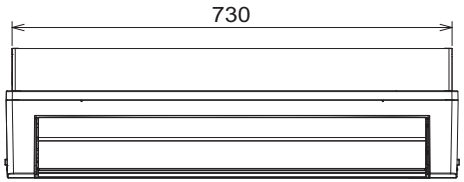
Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

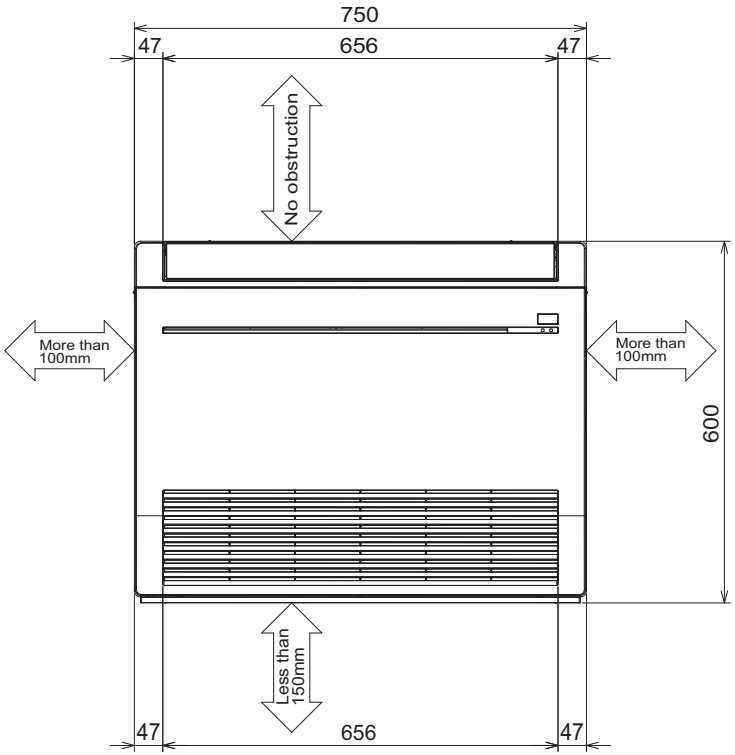
Retail control and input / output interface

Product Dimensions MFZ-KT25/35/50VGK

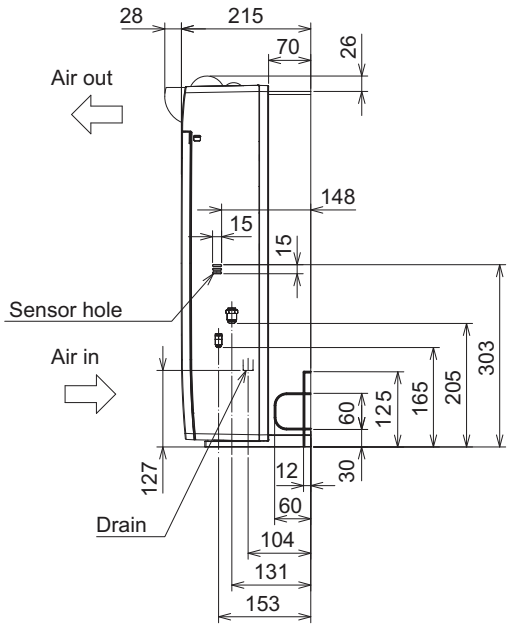
Upper View



Front View



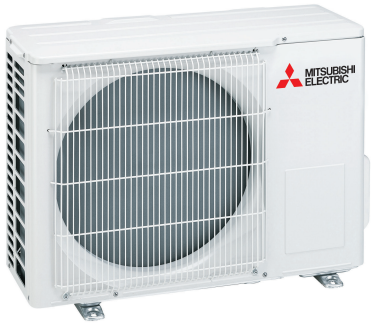
Side View



Outdoor Units

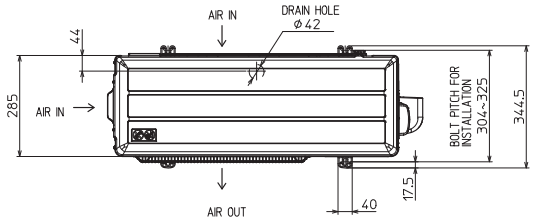




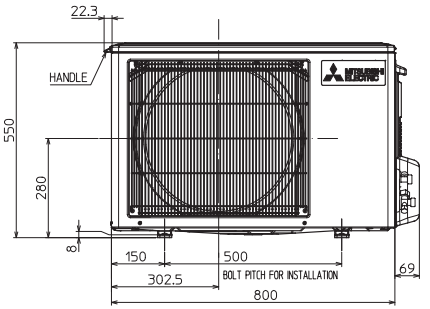


Product Dimensions MUZ-LN25/35VG3, MUZ-AY20/25/35/42VG2, MUZ-HR50VF2

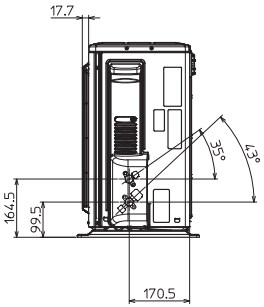
Upper View



Front View

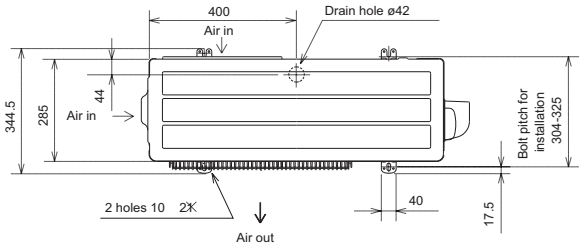


Side View

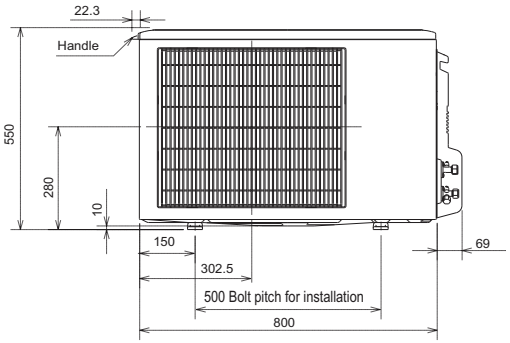


Product Dimensions MUZ-EF25/35VG2, SUZ-M25/35VA2

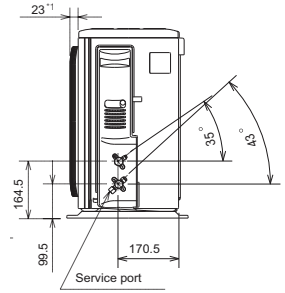
Upper View



Front View



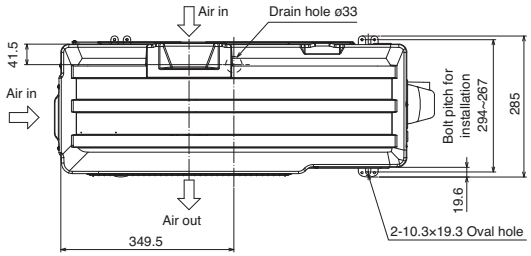
Side View



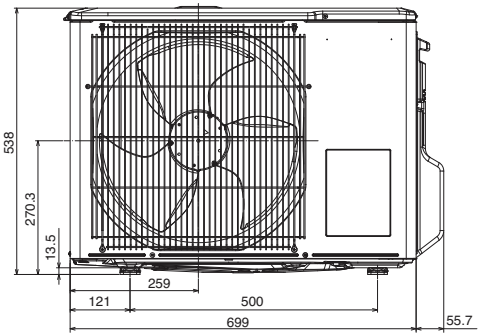
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Product Dimensions MUZ-HR25/35VF2

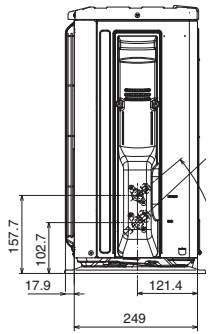
Upper View



Front View



Side View

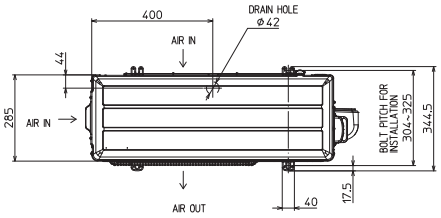


Outdoor Units

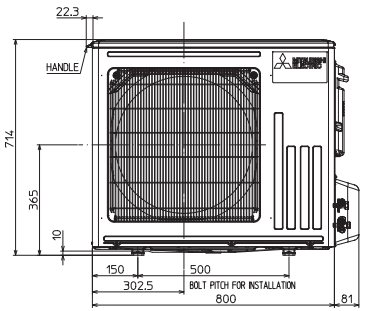


Product Dimensions MUZ-RZ25/35VU, MUZ-LN50VG3, MUZ-EF50VG2, MUZ-AY50VG2, MUZ-AP60VG2, MUZ-HR60/71VF2, SUZ-M50VA2

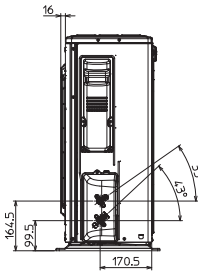
Upper View



Front View



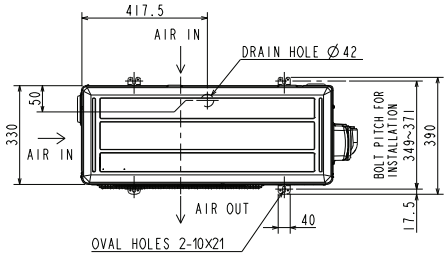
Side View



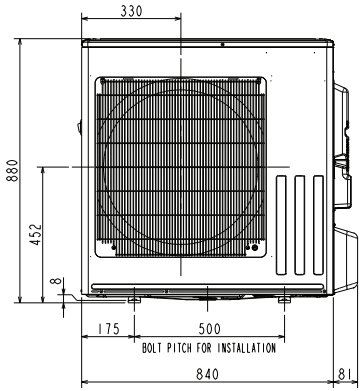


Product Dimensions MUZ-RZ50VUHZ, MUZ-LN60VG3, MUZ-AP71VG2

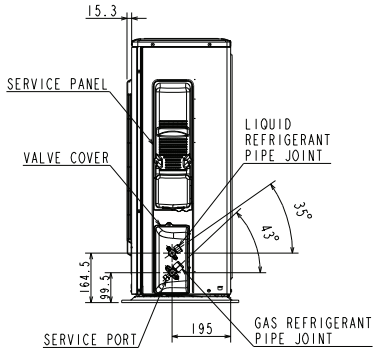
Upper View



Front View



Side View



M Series Accessories / Optional Extras

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

OUTDOOR UNITS	DESCRIPTION
MAC-881SG	Air outlet guide for MUZ-LN25/35VG3, MUZ-EF25/35VG2, MUZ-AY20/25/35/42VG2, MUZ-HR50VF2, SUZ-M25/35VA2
MAC-883SG	Air outlet guide for MUZ-HR25/35VF2
MAC-882SG	Air outlet guide for MUZ-RZ25/35VU, MUZ-LN50VG3, MUZ-EF50VG2, MUZ-AY50VG2, MUZ-AP60VG2, MUZ-HR60/71VF2, SUZ-M50VA2
MAC-890SG-E	Air outlet guide for MUZ-RZ50VUHZ, MUZ-LN60VG3, MUZ-AP71VG2

SYSTEM CONTROL UNITS	DESCRIPTION
PAR-42MAAB	Standard white wired remote controller for MSZ-RZ, MSZ-LN, MSZ-EF, MSZ-AY, MSZ-AP, MSZ-HR, MFZ-KT
PAR-42MAAPB	Standard black wired remote controller for MSZ-RZ, MSZ-LN, MSZ-EF, MSZ-AY, MSZ-AP, MSZ-HR, MFZ-KT
MAC-334IF-E	Interface for M-NET, MA remote controller (PAR-42MAAB / PAR-CT01MAA), on/off input and run/fault output. Now includes a heating interlock mode
MAC-497IF-E	Interface for MA remote controller (PAR-42MAAB / PAR-CT01MAA)
MAC-597IF-E	Interface for Wi-Fi connection to MELCloud Home service. For use when retrofitting to applicable M Series indoor units
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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PLA-SM R32 4-Way Blow Ceiling Cassette System, Inverter Heat Pump	**1.3.14**
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Mr.SLIM 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

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

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

INVERTER

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

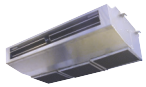








Mr.SLIM Packaged Split-System Air Conditioning

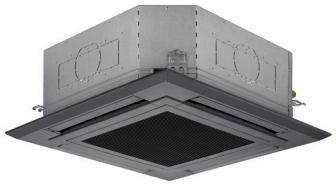
Indoor Model	Range		kW	1.5*1	2.5	3.5	5.0	6.0	7.1	10.0	12.5	14.0	19.0	22.0
4-Way Blow Ceiling Cassette	PLA-ZM/M R32					●	●	●	●	●	●	●		
	PLA-SM R32								●	●	●	●		
	SLZ-M (600x600) R32			●	●	●	●	●						
Wall Mounted	PKA-M R32					●	●	●	●	●				
Ceiling Concealed Ducted	PEAD-M R32					●	●	●	●	●	●	●		
	PEA-M R32												●	●
	SEZ-M R32				●	●	●	●	●					
Ceiling Suspended	PCA-M R32						●	●	●	●	●	●		
	PCA-M-HA3 R32								●					
Floor Standing	PSA-M R32								●	●	●	●		
	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-42MAAB 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-42MAAB or PAR-SL103A-E controller)
- Optional 3D Total Airflow casement to allow 360° directional delivery of air (requires PAR-42MAAB or PAR-SL103A-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 (Matt finish) grille (PLP-6EAB), 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-ZM35EA3	PLA-ZM50EA3	PLA-ZM60EA3	PLA-ZM71EA3	PLA-ZM100EA3	PLA-ZM125EA3	PLA-ZM140EA3
CAPACITY (kW)	Heating (nominal)	4.1 (1.6-5.2)	6.0 (2.5-7.3)	7.0 (2.8-8.2)	8.0 (3.5-10.2)	11.2 (2.7-14.0)	14.0 (3.2-16.0)	16.0 (3.7-18.0)
	Cooling (nominal)	3.6 (1.6-4.5)	5.0 (2.3-5.6)	6.1 (2.7-6.5)	7.1 (3.3-8.1)	9.5 (4.9-11.4)	12.5 (5.1-14.0)	13.4 (5.4-15.0)
	Heating (UK)	3.5 (1.35-4.4)	5.1 (2.15-6.2)	6.0 (2.38-6.97)	6.8 (3.0-8.65)	8.06 (1.94-10.08)	10.08 (2.30-11.52)	11.52 (2.66-12.96)
	Cooling (UK)	3.3 (1.45-4.15)	4.6 (2.1-5.15)	5.6 (2.48-5.98)	6.55 (3.05-7.45)	8.74 (4.51-10.49)	11.50 (4.69-12.88)	12.33 (4.97-13.80)
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	4.20 / 4.40	3.60 / 3.60	3.50 / 3.70
SCOP (ηsh) / SEER (ηsc) (BS EN14825)		4.70 / 7.50	4.90 / 7.60	4.60 / 7.20	4.80 / 7.60	4.80 / 7.80	4.73 (186.2%) / 7.48 (296.2%)	4.63 (182.3%) / 7.40 (292.8%)
ERP ENERGY EFFICIENCY CLASS	Heating/Cooling	A++ / A++	A++ / A++	A++ / A++	A++ / A++	A++ / A++	-	-
AIRFLOW (l/s)	Lo-Mi-Mi2-Hi	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)	840 (950) x 840 (950) x 298 (40)
WEIGHT (kg)	Unit / Grille	21 / 5	21 / 5	21 / 5	24 / 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-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB
WIRELESS REMOTE CONTROLLER REFERENCE		PAR-SL103A-E	PAR-SL103A-E	PAR-SL103A-E	PAR-SL103A-E	PAR-SL103A-E	PAR-SL103A-E	PAR-SL103A-E

PUZ-ZM - OUTDOOR UNITS		PUZ-ZM35VKA3	PUZ-ZM50VKA3	PUZ-ZM60VHA3	PUZ-ZM71VHA3	PUZ-ZM100VDA2	PUZ-ZM125VDA2	PUZ-ZM140VDA2
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	46 / 44	46 / 44	49 / 47	49 / 47	48 / 44	50 / 47	51 / 49
SOUND POWER LEVEL (dBA)	Cooling	65	65	67	67	63	66	68
WEIGHT (kg)		46	46	67	67	107	107	107
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	1100 x 460+45 x 870	1100 x 460+45 x 870	1100 x 460+45 x 870
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	2.667 / 2.160	3.889 / 3.473	4.572 / 3.622
	Heating/Cooling (UK)	0.73 / 0.59	1.21/ 0.94	1.43 / 1.15	1.61 / 1.39	2.19 / 1.84	3.19 / 2.95	3.75 / 3.08
STARTING CURRENT (A)		4.3	4.3	5.3	5.3	11.9	11.9	11.9
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]	12.35 / 9.99 [27.0]	17.99 / 16.05 [27.0]	21.14 / 16.74 [30.7]
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)	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	2.40 / 1.62

Accessories

Indoor Units

PLP-6EA
Grille for PLA-ZM35-140EA3

PLP-6EAB
Black grille (Matt finish) for PLA-ZM35-140EA3

PLP-6EAE
3D i-see sensor grille for PLA-ZM35-140EA3

PLP-6EAJ
Self elevating grille for PLA-ZM35-140EA3

PAC-SE1ME-E
Corner panel with i-see sensor for PLA-ZM35-140EA3

PAR-SE9FA-E
Corner panel with signal receiver for PLA-ZM35-140EA3

PAC-SJ37SP-E
Shutter plate for PLA-ZM35-140EA3

PAC-SJ41TM-E
Multi-function casement for PLA-ZM35-140EA3

PLP-U160ELR-E
3D Total Airflow casement for PLA-ZM35-140EA3

PAC-SK36HK-E
Insulation kit (14°C cooling) for PLA-ZM35-140EA3

PAC-SJ39HR-E
Power supply kit for PLA-ZM35-140EA3

PAR-SL103A-E
Wireless remote controller for PLA-ZM35-140EA3

PAC-SH59KF-E
High efficiency filter for PLA-ZM35-140EA3

PAC-SK53KF-E
V Blocking air purifying filter for PLA-ZM35-140EA3

PAC-SK51FT-E
Plasma Quad Connect air purifying device for PLA-ZM35-140EA3

Outdoor Units

PAC-SJ07SG-E
Air outlet guide for PUZ-ZM35-50VKA3

PAC-SG59SG-E
Air outlet guide for PUZ-ZM60-71VHA3

PAC-SL12SG-E
Air outlet guide for PUZ-ZM100-140VDA2

System Control Units

PAC-SA89TA
Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA
Run/fault adaptor (5 wire adaptor)

PAC-SE42TS-E
Remote sensor

PAR-CT01MAA-SB/PB
Touch screen wired remote controller (PB = Premium Finish)

PAR-42MAAB/MAAPB
Standard wired remote controller (MAAPB = Black Finish)

MAC-597IF-E
Interface for Wi-Fi connection to MELCloud Home 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-E
M-NET adaptor for size 60 and 71

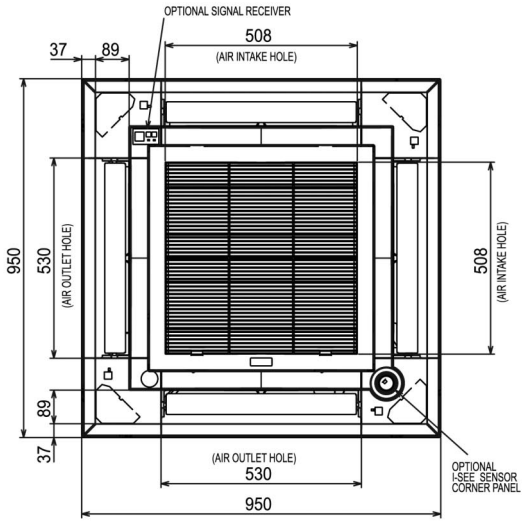
PAC-SL16MA-E
M-NET Adaptor for size 100 to 140

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

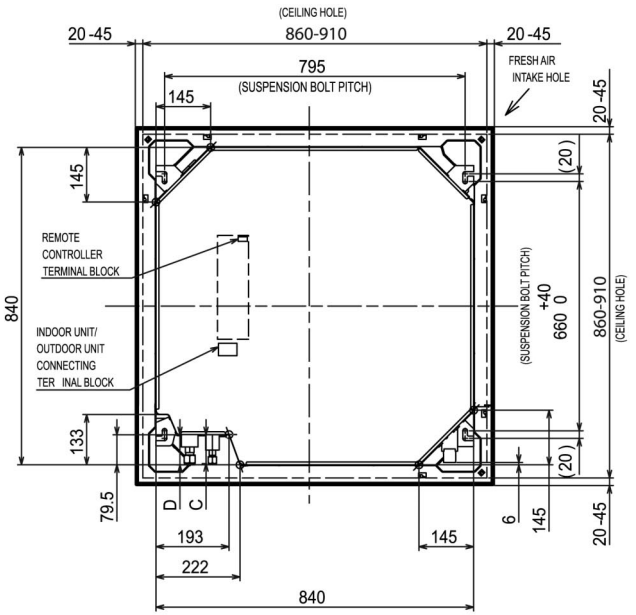
Product Dimensions

PLA-ZM35/50/60/71/100/125/140EA3

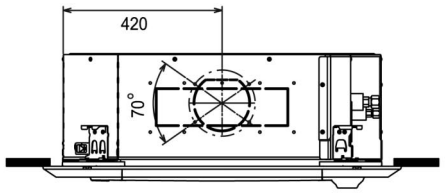
Lower View



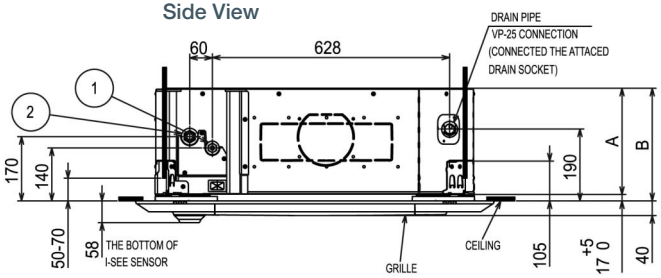
Upper View



Front View



Side View



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

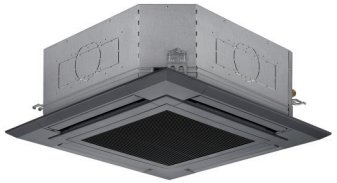
ZM	①	②	A	B	C	D
35/50	REFRIGERANT PIPE Φ 6.35 FLARED CONNECTION 1/4F	REFRIGERANT PIPE Φ 12.7 FLARED CONNECTION 1/2F	241	258	76	76.5
60	FLARED CONNECTION 3/8F REFRIGERANT PIPE Φ 9.52	REFRIGERANT PIPE Φ 15.88 FLARED CONNECTION 5/8F			79.5	79.5
71			281	298		
100-140						

PLA-ZM R32 4-Way Blow Ceiling Cassette System

Power Inverter Heat Pump
(Three 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-42MAAB 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-42MAAB or PAR-SL103A-E controller)
- Optional 3D Total Airflow casement to allow 360° directional delivery of air (requires PAR-42MAAB or PAR-SL103A-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 (Matt finish) grille (PLP-6EAB), 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-ZM100EA3**	**PLA-ZM125EA3**	**PLA-ZM140EA3**
CAPACITY (kW)	Heating (nominal)	11.2 (2.7-14.0)	14.0 (3.2-16.0)	16.0 (3.7-18.0)
	Cooling (nominal)	9.5 (4.9-11.4)	12.5 (5.1-14.0)	13.4 (5.4-15.0)
	Heating (UK)	8.06 (1.94-10.08)	10.08 (2.30-11.52)	11.52 (2.66-12.96)
	Cooling (UK)	8.74 (4.51-10.49)	11.50 (4.69-12.88)	12.33 (4.97-13.80)
SHF (nominal)		0.77	0.70	0.70
COP / EER (nominal)		4.20 / 4.40	3.60 / 3.60	3.50 / 3.70
SCOP (ηsh) / SEER (ηsc) (BS EN14825)		4.80 / 7.60	4.73 (186.2%) / 7.43 (294.1%)	4.63 (182.3%) / 7.35 (290.9%)
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-42MAAB	PAR-42MAAB	PAR-42MAAB
WIRELESS REMOTE CONTROLLER REFERENCE		PAR-SL103A-E	PAR-SL103A-E	PAR-SL103A-E

PUZ-ZM - OUTDOOR UNITS		**PUZ-ZM100YDA2** [3]	**PUZ-ZM125YDA2** [3]	**PUZ-ZM140YDA2** [3]
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	48 / 44	50 / 47	51 / 49
SOUND POWER LEVEL (dBA)	Cooling	63	66	68
WEIGHT (kg)		114	116	121
DIMENSIONS (mm)	Width x Depth x Height	1100 x 460+45 x 870	1100 x 460+45 x 870	1100 x 460+45 x 870
ELECTRICAL SUPPLY		380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE		Three	Three	Three
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal)	2.667 / 2.160	3.889 / 3.473	4.572 / 3.622
	Heating/Cooling (UK)	2.19 / 1.84	3.19 / 2.95	3.75 / 3.08
STARTING CURRENT (A)		3.5	3.5	3.5
SYSTEM RUNNING CURRENT (A)	Heating/Cooling [MAX]	4.09 / 3.32 [8.5]	5.97 / 5.32 [9.5]	7.02 / 5.56 [9.7]
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-ZM100-140EA3

PLP-6EAB
Black grille (Matt finish) for PLA-ZM100-140EA3

PLP-6EAE
3D i-see sensor grille for PLA-ZM100-140EA3

PLP-6EAJ
Self elevating grille for PLA-ZM100-140EA3

PAC-SE1ME-E
Corner panel with i-see sensor for PLA-ZM100-140EA3

PAR-SE9FA-E
Corner panel with signal receiver for PLA-ZM100-140EA3

PAC-SJ37SP-E
Shutter plate for PLA-ZM100-140EA3

PAC-SJ41TM-E
Multi-function casement for PLA-ZM100-140EA3

PLP-U160ELR-E
3D Total Airflow casement for PLA-ZM100-140EA3

PAC-SK36HK-E
Insulation kit (14°C cooling) for PLA-ZM100-140EA3

PAC-SJ39HR-E
Power supply kit for PLA-ZM100-140EA3

PAR-SL103A-E
Wireless remote controller for PLA-ZM100-140EA3

PAC-SH59KF-E
High efficiency filter for PLA-ZM100-140EA3

PAC-SK53KF-E
V Blocking air purifying filter for PLA-ZM100-140EA3

PAC-SK51FT-E
Plasma Quad Connect air purifying device for PLA-ZM100-140EA3

Outdoor Units

PAC-SL12SG-E
Air outlet guide for PUZ-ZM100-140YDA2

System Control Units

PAC-SA89TA
Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA
Run/fault adaptor (5 wire adaptor)

PAC-SE42TS-E
Remote sensor

PAR-CT01MAA-SB/PB
Touch screen wired remote controller (PB=Premium Finish)

PAR-42MAAB/MAAPB
Standard wired remote controller (MAAPB = Black Finish)

MAC-597IF-E
Interface for Wi-Fi connection to MELCloud Home service

MELCOBEMS MINI (A1M+)
Retail control and input / output interface

MELCORETAIL MINI
Retail control and input / output interface

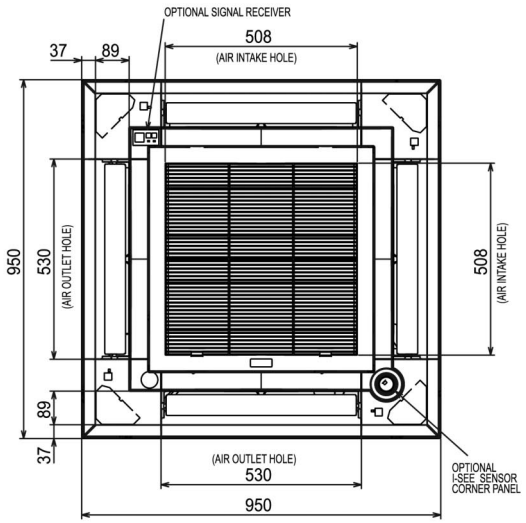
PAC-SL16MA-E
M-NET adaptor for size 100 to 140

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

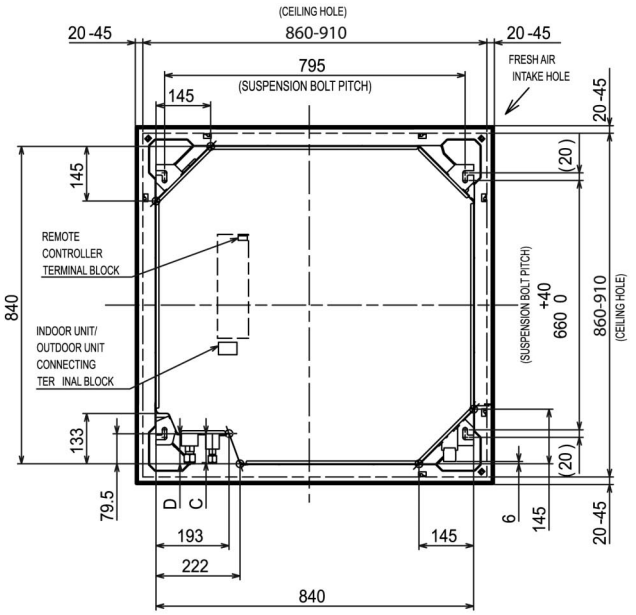
Product Dimensions

PLA-ZM100/125/140EA3

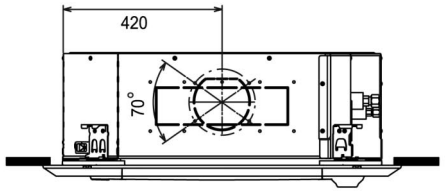
Lower View



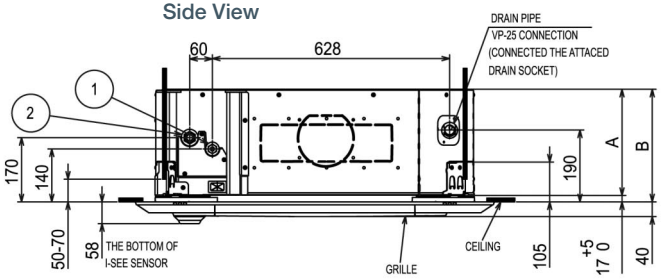
Upper View



Front View



Side View



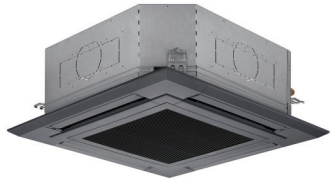
PLA-ZM-EA*:100/125/140

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

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-42MAAB 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-42MAAB or PAR-SL103A-E controller)
- Optional 3D Total Airflow casement to allow 360° directional delivery of air (size 100-140; requires PAR-42MAAB or PAR-SL103A-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 (Matt finish) grille (PLP-6EAB), 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-M35EA3	PLA-M50EA3	PLA-M60EA3	PLA-M71EA3	PLA-M100EA3	PLA-M125EA3	PLA-M140EA3
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+	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	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-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB
WIRELESS REMOTE CONTROLLER REFERENCE		PAR-SL103A-E	PAR-SL103A-E	PAR-SL103A-E	PAR-SL103A-E	PAR-SL103A-E	PAR-SL103A-E	PAR-SL103A-E

SUZ-M / PUZ-M - OUTDOOR UNITS		SUZ-M35VA2	SUZ-M50VA2	SUZ-M60VA2	SUZ-M71VA2	PUZ-M100VKA3	PUZ-M125VKA3	PUZ-M140VKA3
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	53	54	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	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)	0.97 / 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-M35/50/60/71VA2.

Accessories

Indoor Units

PLP-6EA
Grille for PLA-M35-140EA3

PLP-6EAB
Black grille (Matt finish) for PLA-M35-140EA3

PLP-6EAE
3D i-see sensor grille for PLA-M35-140EA3

PLP-6EAJ
Self elevating grille for PLA-M35-140EA3

PAC-SE1ME-E
Corner panel with i-see sensor for PLA-M35-140EA3

PAR-SE9FA-E
Corner panel with signal receiver for PLA-M35-140EA3

PAC-SJ37SP-E
Shutter plate for PLA-M35-140EA3

PAC-SJ41TM-E
Multi-function casement for PLA-M35-140EA3

PLP-U160ELR-E
3D Total Airflow casement for PLA-M100-140EA3

PAC-SK36HK-E
Insulation kit (14°C cooling) for PLA-M100-140EA3

PAC-SJ39HR-E
Power supply kit for PLA-M35-140EA3

PAR-SL103A-E
Wireless remote controller for PLA-M35-140EA3

PAC-SH59KF-E
High efficiency filter for PLA-M35-140EA3

PAC-SK53KF-E
V Blocking air purifying filter for PLA-M35-140EA3

PAC-SK51FT-E
Plasma Quad Connect air purifying device for PLA-M35-140EA3

Outdoor Units

MAC-881SG
Air outlet guide for SUZ-M35VA2

MAC-882SG
Air outlet guide for SUZ-M50VA2

MAC-890SG-E
Air outlet guide for SUZ-M60VA2 / SUZ-M71VA2

PAC-SH96SG-E
Air outlet guide for PUZ-M100-140VKA3

System Control Units

PAC-SA89TA
Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA
Run/fault adaptor (5 wire adaptor)

PAC-SE42TS-E
Remote sensor

PAR-CT01MAA-SB/PB
Touch screen wired remote controller (PB=Premium Finish)

PAR-42MAAB/MAAPB
Standard wired remote controller (MAAPB = Black Finish)

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-597IF-E
Interface for Wi-Fi connection to MELCloud Home service

MELCOBEMS MINI (A1M+)
Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI
Retail control and input / output interface

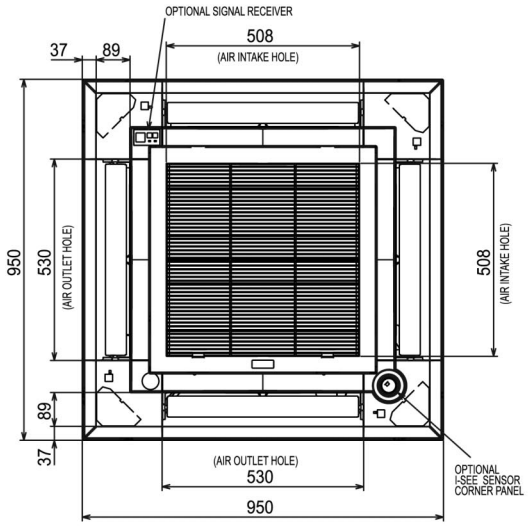
PAC-SJ95MA-E
M-NET adaptor for size 100 to 140

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

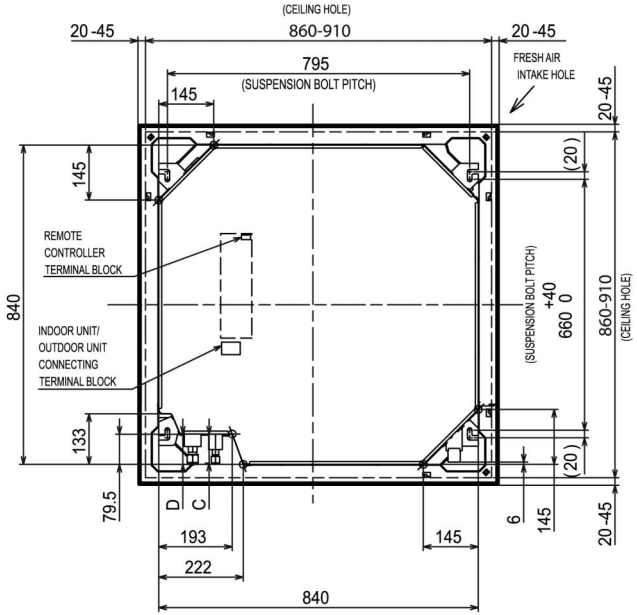
Product Dimensions

PLA-M35/50/60/71/100/125/140EA3

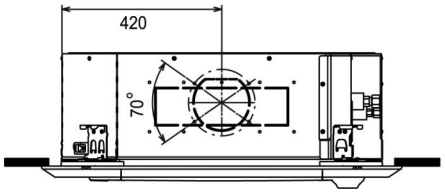
Lower View



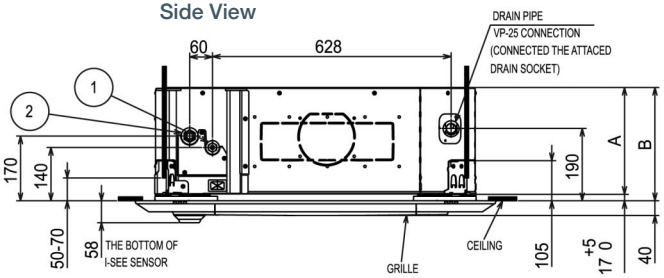
Upper View



Front View



Side View



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

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

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-42MAAB 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-42MAAB or PAR-SL103A-E controller)
- Optional 3D Total Airflow casement to allow 360° directional delivery of air (size 100-140; requires PAR-42MAAB or PAR-SL103A-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 (Matt finish) grille (PLP-6EAB), 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-M100EA3	PLA-M125EA3	PLA-M140EA3
CAPACITY (kW)	Heating (nominal)	11.2 (2.8-12.5)	13.5 (4.1-15.0)	15.0 (4.2-15.8)
	Cooling (nominal)	9.5 (4.0-10.6)	12.1 (5.8-13.0)	13.4 (5.8-14.1)
	Heating (UK)	9.63 (2.41-10.75)	11.49 (3.49-12.77)	12.77 (3.57-13.45)
	Cooling (UK)	8.65 (3.64-9.65)	11.01 (5.28-11.83)	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 (ηsh) / SEER (ηsc) (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-42MAAB	PAR-42MAAB	PAR-42MAAB
WIRELESS REMOTE CONTROLLER REFERENCE		PAR-SL103A-E	PAR-SL103A-E	PAR-SL103A-E

PUZ-M - OUTDOOR UNITS		PUZ-M100YKA3 [3]	PUZ-M125YKA3 [3]	PUZ-M140YKA3 [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 INPUT (kW)	Heating/Cooling (nominal)	3.01 / 2.71	3.63 / 4.01	4.39 / 4.96
	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-M100-140EA3

PLP-6EAB
Black grille (Matt finish) for PLA-M100-140EA3

PLP-6EAE
3D i-see sensor grille for PLA-M100-140EA3

PLP-6EAJ
Self elevating grille for PLA-M100-140EA3

PAC-SE1ME-E
Corner panel with i-see sensor for PLA-M100-140EA3

PAR-SE9FA-E
Corner panel with signal receiver for PLA-M100-140EA3

PAC-SJ37SP-E
Shutter plate for PLA-M100-140EA3

PAC-SJ41TM-E
Multi-function casement for PLA-M100-140EA3

PLP-U160ELR-E
3D Total Airflow casement for PLA-M100-140EA3

PAC-SK36HK-E
Insulation kit (14°C cooling) for PLA-M100-140EA3

PAC-SJ39HR-E
Power supply kit for PLA-M100-140EA3

PAR-SL103A-E
Wireless remote controller for PLA-M100-140EA3

PAC-SH59KF-E
High efficiency filter for PLA-M100-140EA3

PAC-SK53KF-E
V Blocking air purifying filter for PLA-M100-140EA3

PAC-SK51FT-E
Plasma Quad Connect air purifying device for PLA-M100-140EA3

Outdoor Units

PAC-SH96SG-E
Air outlet guide for PUZ-M100-140YKA3

System Control Units

PAC-SA89TA
Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA
Run/fault adaptor (5 wire adaptor)

PAC-SE42TS-E
Remote sensor

PAR-CT01MAA-SB/PB
Touch screen wired remote controller (PB=Premium Finish)

PAR-42MAAB/MAAPB
Standard wired remote controller (MAAPB = Black Finish)

MAC-597IF-E
Interface for Wi-Fi connection to MELCloud Home service

MELCOBEMS MINI (A1M+)
Modbus and BACnet MSTP CN105 adaptor

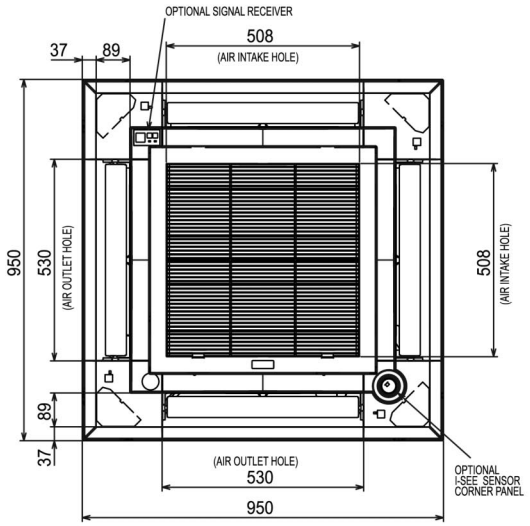
MELCORETAIL MINI
Retail control and input / output interface

PAC-SJ95MA-E
M-NET adaptor for size 100 to 140

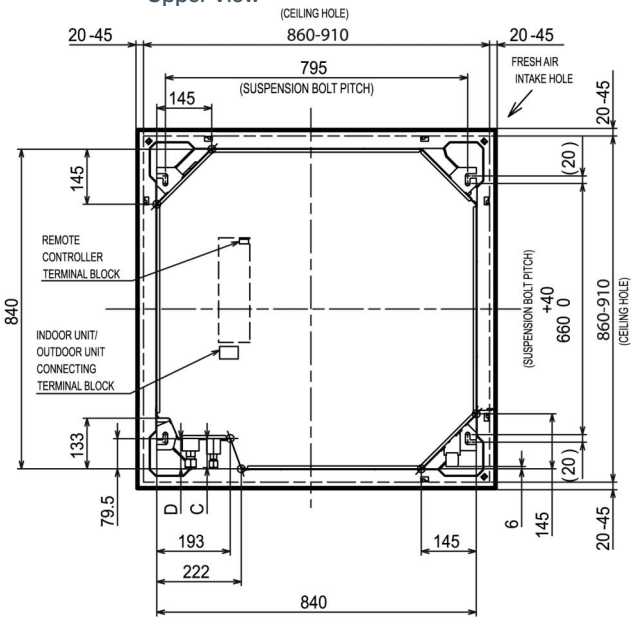
Note: Please see page 1.3.66 for the full range of accessories.

Product Dimensions PLA-M100/125/140EA3

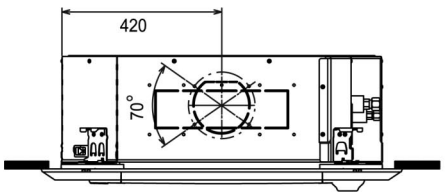
Lower View



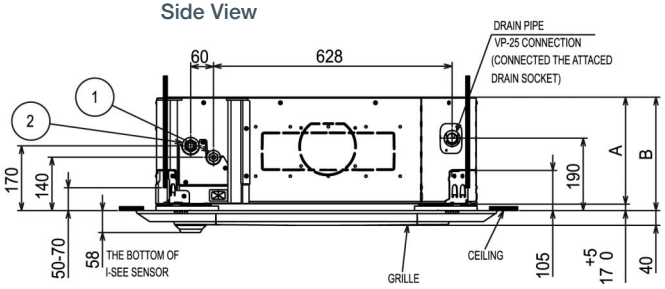
Upper View



Front View



Side View



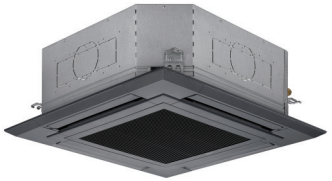
PLA-M.EA*:100/125/140

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

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 (Matt finish) grille (PLP-6EAB), 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-SM71EA3	PLA-SM100EA3	PLA-SM100EA3	PLA-SM125EA3	PLA-SM125EA3	PLA-SM140EA3	PLA-SM140EA3
CAPACITY (kW)	Heating (nominal)	8.0 (2.0-10.2)	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 (1.72-8.77)	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 (ηsh) / SEER (ηsc) (BS EN14825)		3.90 / 6.00	4.50 / 6.00	4.50 / 6.00	3.90 (154.1%) / 5.50 (225.2%)	3.90 (154.1%) / 5.50 (225.2%)	3.90 (153.3%) / 5.50 (224.9%)	3.90 (153.3%) / 5.50 (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-Mi1-Mi2-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-Mi1-Mi2-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-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB
WIRELESS REMOTE CONTROLLER REFERENCE		PAR-SL103A-E	PAR-SL103A-E	PAR-SL103A-E	PAR-SL103A-E	PAR-SL103A-E	PAR-SL103A-E	PAR-SL103A-E

SUZ-SM / PUZ-SM OUTDOOR UNITS		SUZ-SM71VA2	PUZ-SM100VKA3	PUZ-SM100YKA3	PUZ-SM125VKA3	PUZ-SM125YKA3	PUZ-SM140VKA3	PUZ-SM140YKA3
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)		54	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 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)	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	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-SM71-140EA3

PLP-6EAB
Black grille (Matt finish) for PLA-SM71-140EA3

PLP-6EAJ
Self elevating grille for PLA-SM71-140EA3

PAR-SE9FA-E
Corner panel with signal receiver for PLA-SM71-140EA3

PAC-SJ37SP-E
Shutter plate for PLA-SM71-140EA3

PAC-SJ41TM-E
Multi-function casement for PLA-SM71-140EA3

PAC-SJ39HR-E
Power supply kit for PLA-SM71-140EA3

PAR-SL103A-E
Wireless remote controller for PLA-SM71-140EA3

PAC-SH59KF-E
High efficiency filter for PLA-SM71-140EA3

PAC-SK53KF-E
V Blocking air purifying filter for PLA-SM71-140EA3

PAC-SK51FT-E
Plasma Quad Connect air purifying device for PLA-SM71-140EA3

Outdoor Units

MAC-890SG-E
Air outlet guide for SUZ-SM71VA2

PAC-SH96SG-E
Air outlet guide for PUZ-SM100-140VKA3/YKA3

System Control Units

PAC-SA89TA
Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA
Run/fault adaptor (5 wire adaptor)

PAC-SE42TS-E
Remote sensor

PAR-CT01MAA-SB/PB
Touch screen wired remote controller (PB=Premium Finish)

PAR-42MAAB/MAAPB
Standard wired remote controller (MAAPB = Black Finish)

MAC-597IF-E
Interface for Wi-Fi connection to MELCloud Home service

MELCOBEMS MINI (A1M+)
Modbus and BACnet MSTP CN105 adaptor

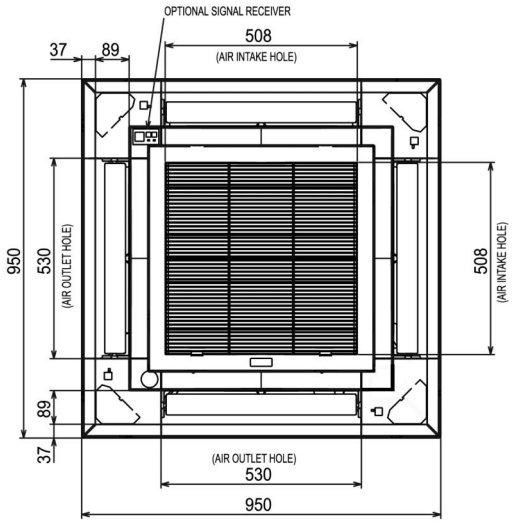
MELCORETAIL MINI
Retail control and input / output interface

PAC-SJ95MA-E
M-NET adaptor for size 100 to 140

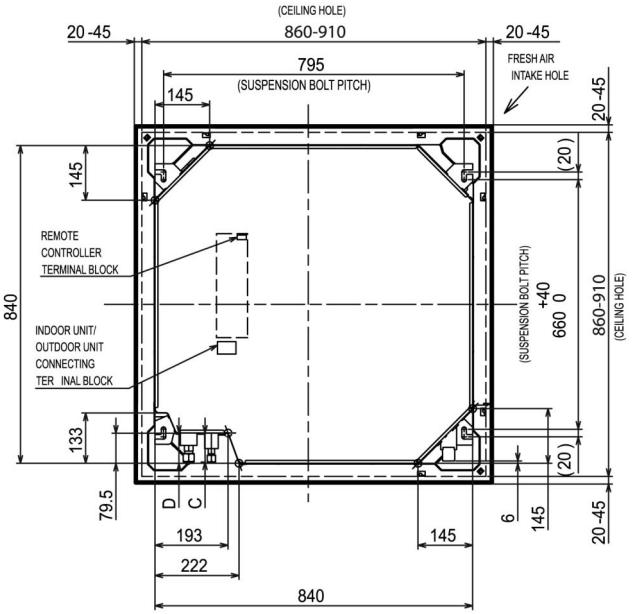
Note: Please see page 1.3.66 for the full range of accessories.

Product Dimensions PLA-SM71/100/125/140EA3

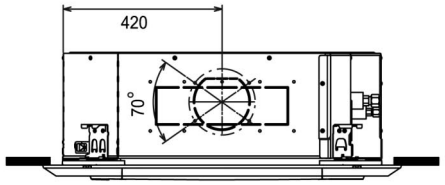
Lower View



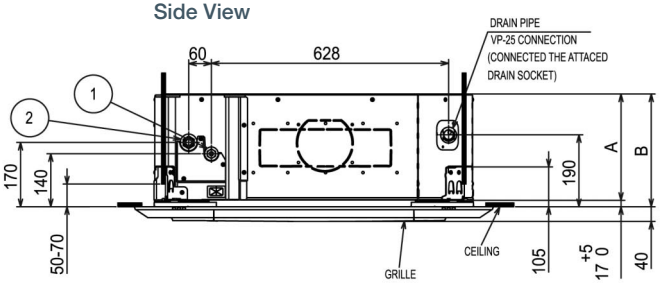
Upper View



Front View



Side View



PLA-SM71/100/125/140

SM	①	②	A	B	C	D
71	FLARED CONNECTION 3/8"REFRIGERANT PIPE Φ 9.52	REFRIGERANT PIPE Φ 15.88 FLARED CONNECTION 5/8"F	241	258	79.5	79.5
100-140			281	298		

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 black (Satin finish) grille (SLP-2FA-B), for environments that desire a premium quality feel
- Optional V Blocking filter provides in-room air purification, neutralising viruses, allergens, dust and mould

R32

SLZ-M - INDOOR UNITS		SLZ-M15FA3	SLZ-M25FA3	SLZ-M35FA3	SLZ-M50FA3	SLZ-M60FA3
CAPACITY (kW)	Heating (nominal)	1.7 (0.9-3.1)	3.2 (1.3-4.2)	4.0 (1.0-5.0)	5.0 (1.3-5.5)	6.4 (1.6-7.3)
	Cooling (nominal)	1.5 (0.9-2.4)	2.5 (1.4-3.2)	3.5 (0.7-3.9)	4.6 (1.0-5.2)	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	125-192-217
PIPE SIZE mm (in)	Gas	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	12.7 (1/2")	15.88 (5/8")
	Liquid	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
SOUND PRESSURE LEVEL (dBA)	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-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB

Note: SLZ-M15FA3 only available with R32 MXZ Multi-Split outdoor units.

SUZ-M - OUTDOOR UNITS		N/A MULTI-SPLIT ONLY	SUZ-M25VA2	SUZ-M35VA2	SUZ-M50VA2	SUZ-M60VA2
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	53
DIMENSIONS (mm)	Width x Depth x Height	-	800 x 285 x 550	800 x 285 x 550	800 x 285 x 714	840 x 330 x 880
ELECTRICAL SUPPLY		-	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
PHASE		-	Single	Single	Single	Single
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal)	-	0.88 / 0.65	1.07 / 1.09	1.56 / 1.35	2.13 / 1.67
	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) / CO_2 EQUIVALENT (T)	R32 (GWP 675)	-	0.91 / 0.61	1.16 / 0.78	1.66 / 1.12	1.71 / 1.15

Accessories

Indoor Units

SLP-2FA
Grille for SLZ-M15-60FA3

SLP-2FA-B
Black grille (Satin finish) for SLZ-M15-60FA3

SLP-2FAE
3D i-see sensor grille for SLZ-M15-60FA3

PAC-SK54KF-E
V Blocking air purifying filter for SLZ-M15-60FA3

Outdoor Units

MAC-881SG
Air outlet guide for SUZ-M25-35VA2

MAC-882SG
Air outlet guide for SUZ-M50VA2

MAC-890SG-E
Air outlet guide for SUZ-M60VA2

System Control Units

PAC-SA89TA
Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA
Run/fault adaptor (5 wire adaptor)

PAC-SE42TS-E
Remote sensor

PAR-CT01MAA-SB/PB
Touch screen wired remote controller (PB = Premium Finish)

PAR-42MAAB/MAAPB
Standard wired remote controller (MAAPB = Black Finish)

MAC-334IF-E
Interface for M-NET, MA remote controller (PAR-42MAAB / PAR-CT01MAA), on/off input and run/fault output

MAC-497IF-E
Interface for MA remote controller (PAR-42MAAB / PAR-CT01MAA)

MAC-597IF-E
Interface for Wi-Fi connection to MELCloud Home service

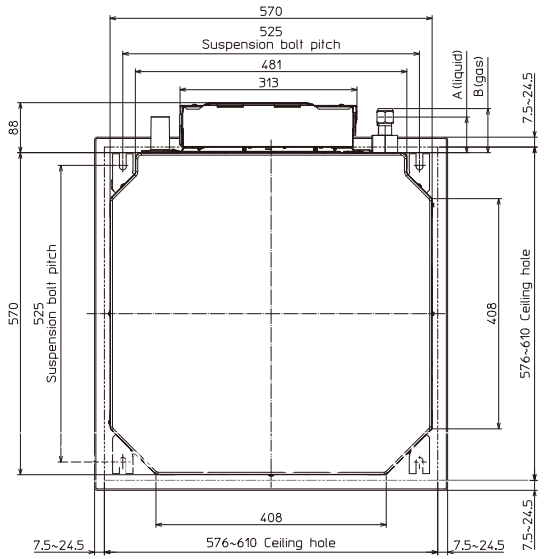
MELCOBEMS MINI (A1M+)
Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI
Retail control and input / output interface

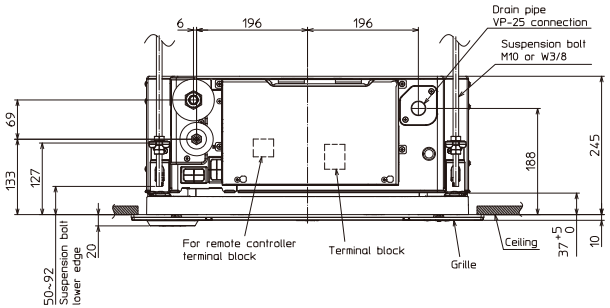
Note: Please see page 1.3.66 for the full range of accessories.

Product Dimensions SLZ-M15/25/35/50/60FA3

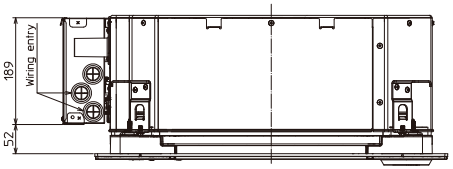
Upper View



Side View



Front View



PKA-M R32 Wall Mounted System

Power Inverter Heat Pump













POWER INVERTER

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-42MAAB 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-42MAAB or PAR-SL103A-E controller)
- 'Backup and rotate' feature to reduce load on individual units and prolong product life (requires PAR-42MAAB 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-M35LA3	PKA-M50LA3	PKA-M60KA3	PKA-M71KA3	PKA-M100KA3	PKA-M100KA3
CAPACITY (kW)	Heating (nominal)	4.1 (1.6-5.2)	5.0 (2.5-7.3)	7.0 (2.8-8.2)	8.0 (3.5-10.2)	11.2 (2.7-14.0)	11.2 (2.7-14.0)
	Cooling (nominal)	3.6 (1.6-4.5)	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)	3.5 (1.35-4.4)	4.25 (2.15-6.2)	5.95 (2.4-6.95)	6.8 (3.0-8.65)	8.06 (1.94-10.08)	8.06 (1.94-10.08)
	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)	8.74 (4.51-10.49)	8.74 (4.51-10.49)
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 / 3.90	3.61 / 3.90
SCOP / SEER (BS EN14825)		4.00 / 6.50	4.30 / 6.60	4.20 / 6.80	4.30 / 6.80	4.40 / 6.50	4.40 / 6.40
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	1170 x 295 x 365	1170 x 295 x 365	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-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB
WIRELESS REMOTE CONTROLLER REFERENCE		PAR-SL103A-E / PAR-FL32MA	PAR-SL103A-E / PAR-FL32MA	PAR-SL103A-E / PAR-FL32MA	PAR-SL103A-E / PAR-FL32MA	PAR-SL103A-E / PAR-FL32MA	PAR-SL103A-E / PAR-FL32MA

PUZ-ZM - OUTDOOR UNITS		PUZ-ZM35VKA3	PUZ-ZM50VKA3	PUZ-ZM60VHA3	PUZ-ZM71VHA3	PUZ-ZM100VDA2	PUZ-ZM100YDA2 [3]
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	46 / 44	46 / 44	49 / 47	49 / 47	48 / 44	48 / 44
SOUND POWER LEVEL (dBA)	Cooling	65	65	67	67	63	63
WEIGHT (kg)		46	46	67	67	107	114
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	1100 x 460+45 x 870	1100 x 460+45 x 870
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	3.103 / 2.436	3.103 / 2.436
	Heating/Cooling (UK)	0.81 / 0.84	1.12 / 1.12	1.25 / 1.65	1.54 / 1.92	2.54 / 2.07	2.54 / 2.07
STARTING CURRENT (A)		4.3	4.3	5.3	5.3	11.9	3.5
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]	14.35 / 11.27 [27.1]	4.77 / 3.74 [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-M35-100LA3/KA3

PAR-SL103A-E

Wireless remote controller for PKA-M35-100LA3/KA3

MAC-100FT-E

Plasma Quad Connect air purifying device

Outdoor Units

PAC-SJ07SG-E

Air outlet guide for PUZ-ZM35-50VKA3

PAC-SG59SG-E

Air outlet guide for PUZ-ZM60-71VHA3

PAC-SL12SG-E

Air outlet guide for PUZ-ZM100VDA2/YDA2

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE42TS-E

Remote sensor

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB=Premium Finish)

PAR-42MAAB/MAAPB

Standard wired remote controller (MAAPB = Black Finish)

MAC-597IF-E

Interface for Wi-Fi connection to MELCloud Home 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-E

M-NET adaptor for size 60 and 71

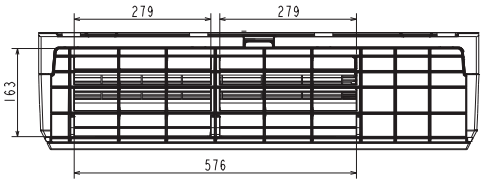
PAC-SL16MA-E

M-NET Adaptor for size 100

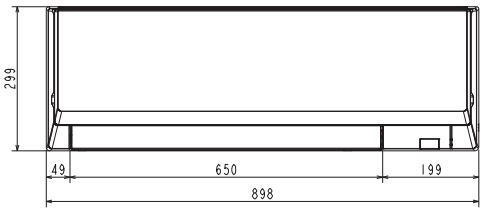
Note: Please see page 1.3.66 for the full range of accessories.

Product Dimensions PKA-M35/50LA3

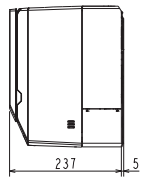
Upper View



Front View

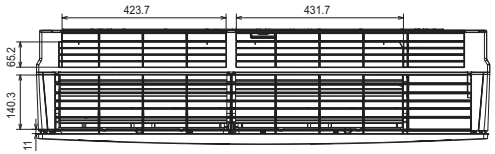


Side View

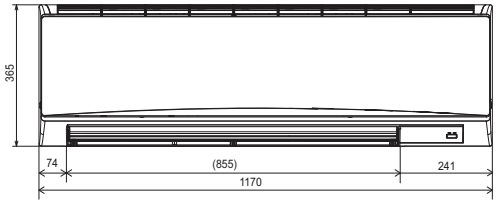


Product Dimensions PKA-M60/71/100KA3

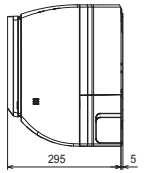
Upper View



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-42MAAB 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-42MAAB or PAR-SL103A-E controller)
- 'Backup and rotate' feature to reduce load on individual units and prolong product life (requires PAR-42MAAB 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

R32

PKA-M - INDOOR UNITS		**PKA-M100KA3**	**PKA-M100KA3**
CAPACITY (kW)	Heating (nominal)	11.2 (2.8-12.5)	11.2 (2.8-12.5)
	Cooling (nominal)	9.5 (4.0-10.6)	9.5 (4.0-10.6)
	Heating (UK)	9.63 (2.41-10.75)	9.63 (2.41 - 10.75)
	Cooling (UK)	8.65 (3.64-9.65)	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	15.88 (5/8")	15.88 (5/8")
	Liquid	9.52 (3/8")	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-42MAAB	PAR-42MAAB
WIRELESS REMOTE CONTROLLER REFERENCE		PAR-SL103A-E / PAR-FL32MA	PAR-SL103A-E / PAR-FL32MA

PUZ-M - OUTDOOR UNITS		**PUZ-M100VKA3**	**PUZ-M100YKA3** [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)	3.28 / 2.94	3.28 / 2.94
	Heating/Cooling (UK)	2.95 / 2.44	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-M100KA3

PAR-SL103A-E
Wireless remote controller for PKA-M100KA3

MAC-100FT-E
Plasma Quad Connect air purifying device

Outdoor Units

PAC-SH96SG-E
Air outlet guide for PUZ-M100VKA3/YKA3

System Control Units

PAC-SA89TA
Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA
Run/fault adaptor (5 wire adaptor)

PAC-SE42TS-E
Remote sensor

PAR-CT01MAA-SB/PB
Touch screen wired remote controller (PB=Premium Finish)

PAR-42MAAB/MAAPB
Standard wired remote controller (MAAPB = Black Finish)

MAC-597IF-E
Interface for Wi-Fi connection to MELCloud Home service

MELCOBEMS MINI (A1M+)
Modbus and BACnet MSTP CN105 adaptor

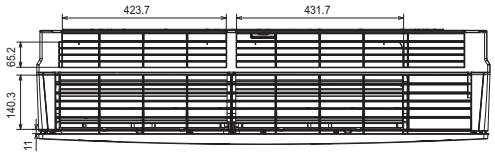
MELCORETAIL MINI
Retail control and input / output interface

PAC-SJ95MA-E
M-NET adaptor for size 100

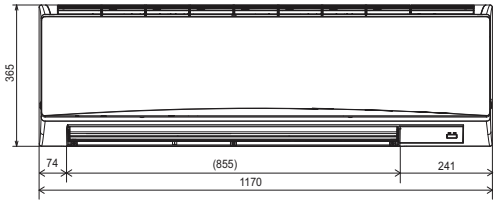
Note: Please see page 1.3.66 for the full range of accessories.

Product Dimensions PKA-M100KA3

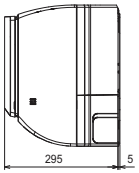
Upper View



Front View



Side View



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-42MAAB 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











POWER INVERTER

PEAD-M - INDOOR UNITS		PEAD-M35JA3	PEAD-M50JA3	PEAD-M60JA3	PEAD-M71JA3	PEAD-M100JA3	PEAD-M125JA3	PEAD-M140JA3
CAPACITY (kW)	Heating (nominal)	4.1 (1.6-5.2)	6.0 (2.5-7.3)	7.0 (2.8-8.2)	8.0 (3.5-10.2)	11.2 (2.7-14.0)	14.0 (3.2-16.0)	16.0 (3.7-18.0)
	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 (5.1-14.0)	13.4 (5.4-15.0)
	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)	8.06 (1.94-10.08)	10.08 (2.30-11.52)	11.52 (2.66-12.96)
	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)	8.74 (4.51-10.49)	11.50 (4.69-12.88)	12.33 (4.96-13.80)
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 / 3.70	3.90 / 3.62
SCOP (ηsh) / SEER (ηsc) (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%)	4.40 / 6.60	4.18 (164.5%) / 6.68 (264.1%)	4.16 (163.2%) / 6.53 (258.3%)
ERP ENERGY EFFICIENCY CLASS	Heating/Cooling	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	23-25-28	27-33-35	25-30-33	26-32-37	31-36-39	35-39-41	34-38-41
SOUND POWER LEVEL (dBA)		49	57	57	61	63	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-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB

PUZ-ZM - OUTDOOR UNITS		PUZ-ZM35VKA3	PUZ-ZM50VKA3	PUZ-ZM60VHA3	PUZ-ZM71VHA3	PUZ-ZM100VDA2	PUZ-ZM125VDA2	PUZ-ZM140VDA2
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	46 / 44	46 / 44	49 / 47	49 / 47	48 / 44	50 / 47	51 / 49
SOUND POWER LEVEL (dBA)	Cooling	65	65	67	67	63	66	68
WEIGHT (kg)		46	46	67	67	107	107	107
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	1100 x 460+45 x 870	1100 x 460+45 x 870	1100 x 460+45 x 870
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	2.546 / 2.262	3.764 / 3.379	4.103 / 3.702
	Heating/Cooling (UK)	0.76 / 0.76	1.15 / 1.05	1.30 / 1.37	1.70 / 1.50	2.09 / 1.92	3.09 / 2.87	3.36 / 3.15
STARTING CURRENT (A)		4.3	4.3	5.3	5.3	11.9	11.9	11.9
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]	11.78 / 10.46 [28.8]	17.41 / 15.63 [28.8]	18.98 / 17.12 [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)	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	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-E

Air outlet guide for PUZ-ZM35-50VKA3

PAC-SG59SG-E

Air outlet guide for PUZ-ZM60-71VHA3

PAC-SL12SG-E

Air outlet guide for PUZ-ZM100-140VDA2

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE42TS-E

Remote sensor

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB=Premium Finish)

PAR-42MAAB/MAAPB

Standard wired remote controller (MAAPB = Black Finish)

MAC-597IF-E

Interface for Wi-Fi connection to MELCloud Home 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-E

M-NET adaptor for size 60 and 71

PAC-SL16MA-E

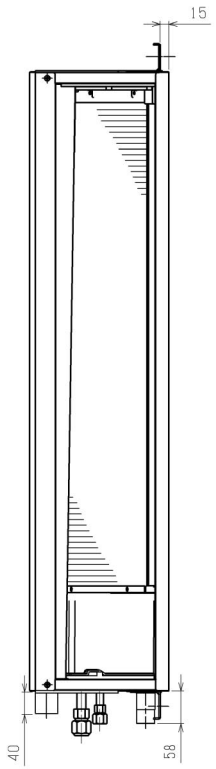
M-NET Adaptor for size 100 to 140

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

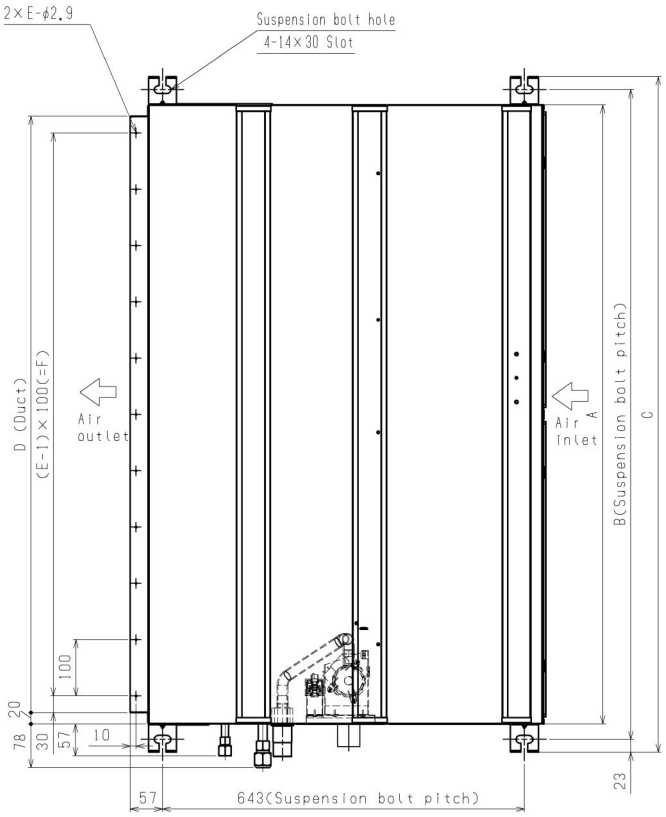
Product Dimensions

PEAD-M35/50/60/71/100/125/140JA3

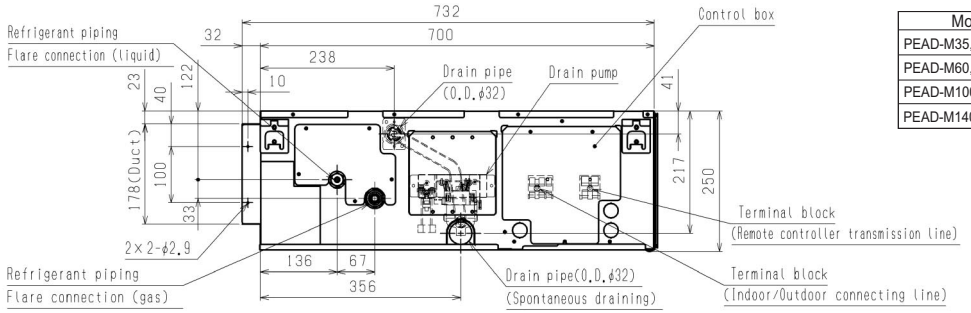
Front View



Upper View



Side View



Model	A	B	C	D	E	F
PEAD-M35,50JA3	900	954	1000	860	9	800
PEAD-M60,71JA3	1100	1154	1200	1060	11	1000
PEAD-M100,125JA3	1400	1454	1500	1360	14	1300
PEAD-M140JA3	1600	1654	1700	1560	16	1500

PEAD-M R32 Ceiling Concealed Ducted System

Power Inverter Heat Pump
(Three Phase)







POWER INVERTER

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-42MAAB 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-M100JA3	PEAD-M125JA3	PEAD-M140JA3
CAPACITY (kW)	Heating (nominal)	11.2 (2.7-14.0)	14.0 (3.2-16.0)	16.0 (3.7-18.0)
	Cooling (nominal)	9.5 (4.9-11.4)	12.5 (5.1-14.0)	13.4 (5.4-15.0)
	Heating (UK)	8.06 (1.94-10.08)	10.08 (2.30-11.52)	11.52 (2.66-12.96)
	Cooling (UK)	8.74 (4.51-10.49)	11.50 (4.69-12.88)	12.33 (4.97-13.80)
SHF (nominal)		0.82	0.78	0.77
COP / EER (nominal)		4.40 / 4.20	3.72 / 3.70	3.90 / 3.62
SCOP (ηsh) / SEER (ηsc) (BS EN14825)		4.40 / 6.50	4.18 (164.4%) / 6.68 (264.4%)	4.15 (163.1%) / 6.50 (256.8%)
ERP ENERGY EFFICIENCY CLASS	Heating/Cooling	A+ / A++	-	-
AIRFLOW (l/s)	Lo-Mi-Hi	383-467-533	467-567-617	492-592-667
PIPE SIZE MM (in)	Gas	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")
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)		63	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-42MAAB	PAR-42MAAB	PAR-42MAAB

PUZ-ZM - OUTDOOR UNITS		PUZ-ZM100YDA2 [3]	PUZ-ZM125YDA2 [3]	PUZ-ZM140YDA2 [3]
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	48 / 44	50 / 47	51 / 49
SOUND POWER LEVEL (dBA)	Cooling	63	66	68
WEIGHT (kg)		114	116	121
DIMENSIONS (mm)	Width x Depth x Height	1100 x 460+45 x 870	1100 x 460+45 x 870	1100 x 460+45 x 870
ELECTRICAL SUPPLY		380-415v,50Hz	380-415v,50Hz	380-415v,50Hz
PHASE		Three	Three	Three
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal)	2.546 / 2.262	3.764 / 3.379	4.103 / 3.702
	Heating/Cooling (UK)	2.09 / 1.92	3.09 / 2.87	3.36 / 3.15
STARTING CURRENT (A)		3.5	3.5	3.5
SYSTEM RUNNING CURRENT (A)	Heating/Cooling [MAX]	3.91 / 3.47 [10.3]	5.78 / 5.19 [11.3]	6.30 / 5.68 [11.6]
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

MAC-100FT-E

Plasma Quad Connect air purifying device

PAC-HA31PAR

Plasma Quad Connect metal fitment

Outdoor Units

PAC-SL12SG-E

Air outlet guide for PUZ-ZM100-140YDA2

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE42TS-E

Remote sensor

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB=Premium Finish)

PAR-42MAAB/MAAPB

Standard wired remote controller (MAAPB = Black Finish)

MAC-597IF-E

Interface for Wi-Fi connection to MELCloud Home service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

Retail control and input / output interface

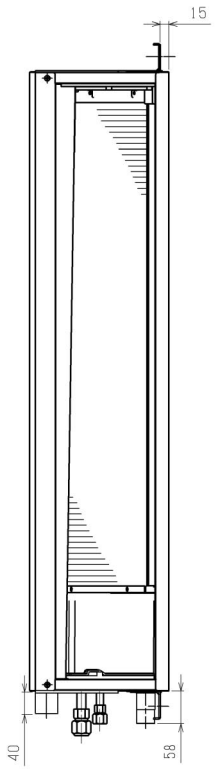
PAC-SL16MA-E

M-NET adaptor for size 100 to 140

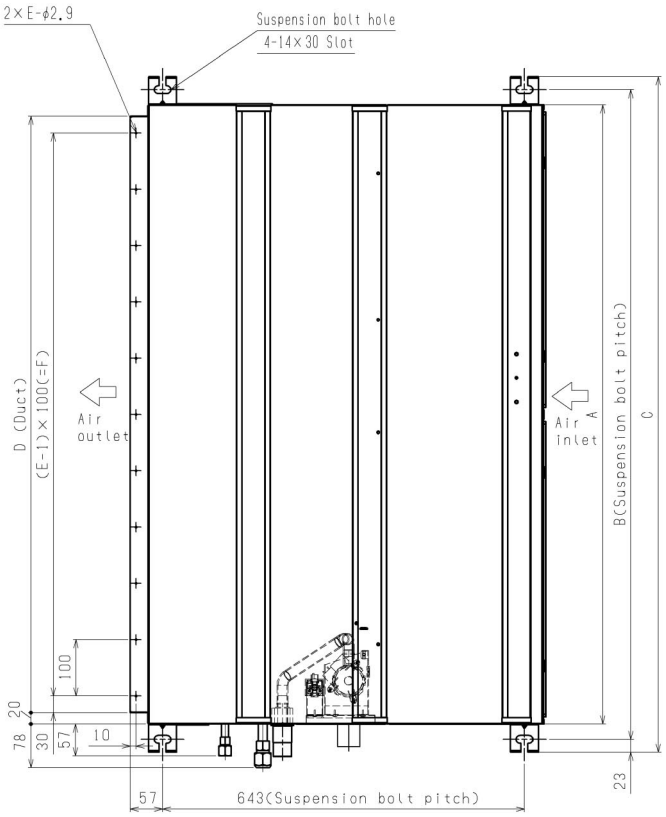
Note: Please see page 1.3.66 for the full range of accessories.

Product Dimensions PEAD-M100/125/140JA3

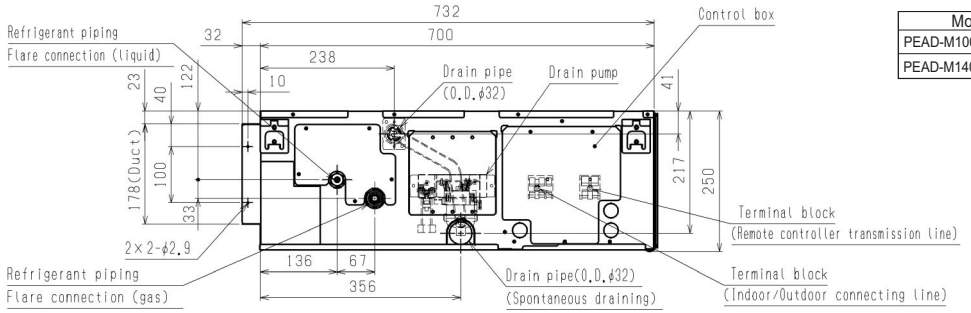
Front View



Upper View



Side View



Model	A	B	C	D	E	F
PEAD-M100,125JA3	1400	1454	1500	1360	14	1300
PEAD-M140JA3	1600	1654	1700	1560	16	1500

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-42MAAB 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-M35JA3	PEAD-M50JA3	PEAD-M60JA3	PEAD-M71JA3	PEAD-M100JA3	PEAD-M125JA3	PEAD-M140JA3
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 (ηsh) / SEER (ηsc) (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++	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	9.52 (3/8")	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")	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	23-25-28	27-33-35	25-30-33	26-32-37	31-36-39	35-39-41	34-38-41
SOUND POWER LEVEL (dBA)		49	57	57	61	63	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-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB

SUZ-M / PUZ-M - OUTDOOR UNITS		SUZ-M35VA2	SUZ-M50VA2	SUZ-M60VA2	SUZ-M71VA2	PUZ-M100VKA3	PUZ-M125VKA3	PUZ-M140VKA3
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	53	54	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	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
PHASE		Single	Single	Single	Single	Single	Single	Single
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal)	1.025 / 0.923	1.463 / 1.351	1.842 / 1.694	2.105 / 2.028	2.947 / 2.878	3.739 / 4.019	4.155 / 4.768
	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	3.69 / 4.05
STARTING CURRENT (A)		5.0	5.7	7.6	10.0	7.1	2.9	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]	16.06 / 17.62 [31.4]
FUSE RATING (BS88) - HRC (A)		16	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-M35/50/60/71VA2.

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-M35VA2

MAC-882SG
Air outlet guide for SUZ-M50VA2

MAC-890SG-E
Air outlet guide for SUZ-M60VA2 / SUZ-M71VA2

PAC-SH96SG-E
Air outlet guide for PUZ-M100-140VKA3

System Control Units

PAC-SA89TA
Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA
Run/fault adaptor (5 wire adaptor)

PAC-SE42TS-E
Remote sensor

PAR-CT01MAA-SB/PB
Touch screen wired remote controller (PB=Premium Finish)

PAR-42MAAB/MAAPB
Standard wired remote controller (MAAPB = Black Finish)

MAC-334IF-E
Interface for M-NET, MA remote controller (PAR-42MAAB / PAR-CT01MAA), on/off input and run/fault output

MAC-497IF-E
Interface for MA remote controller (PAR-42MAAB / PAR-CT01MAA)

MAC-597IF-E
Interface for Wi-Fi connection to MELCloud Home service

MELCOBEMS MINI (A1M+)
Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI
Retail control and input / output interface

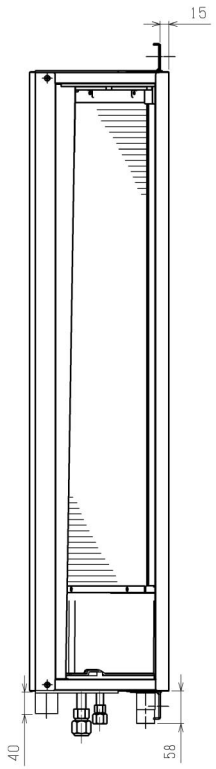
PAC-SJ95MA-E
M-NET adaptor for size 100 to 140

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

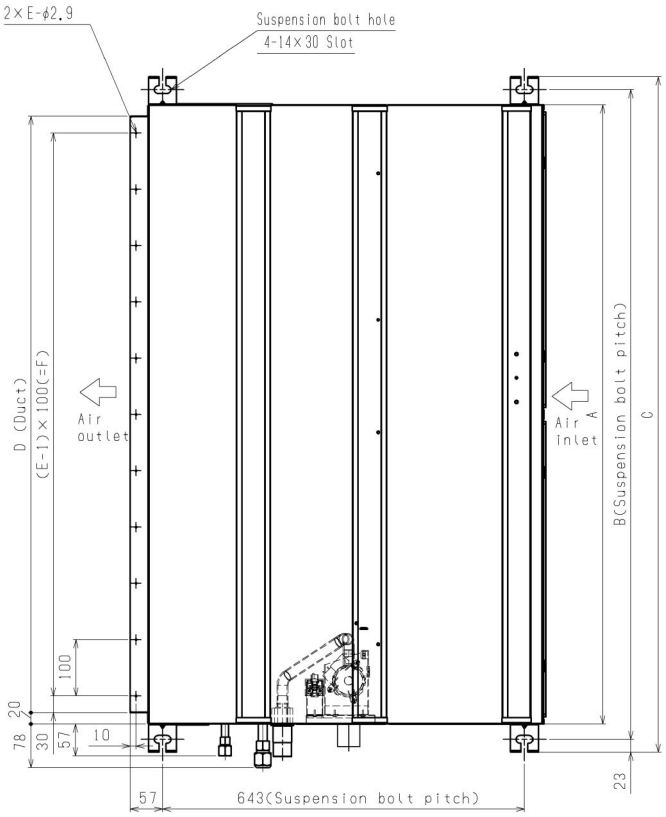
Product Dimensions

PEAD-M35/50/60/71/100/125/140JA3

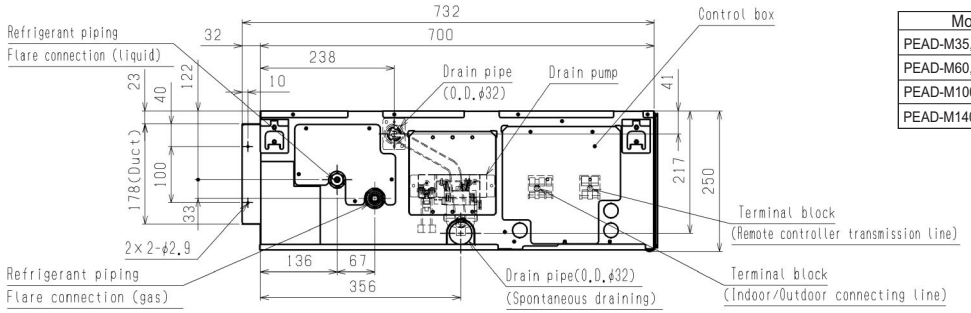
Front View



Upper View



Side View



Model	A	B	C	D	E	F
PEAD-M35,50JA3	900	954	1000	860	9	800
PEAD-M60,71JA3	1100	1154	1200	1060	11	1000
PEAD-M100,125JA3	1400	1454	1500	1360	14	1300
PEAD-M140JA3	1600	1654	1700	1560	16	1500

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-42MAAB 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-M100JA3	PEAD-M125JA3	PEAD-M140JA3
CAPACITY (kW)	Heating (nominal)	11.2 (2.8-12.5)	13.5 (4.1-15.0)	15.0 (4.2-15.8)
	Cooling (nominal)	9.5 (4.0-10.6)	12.1 (6.0-13.0)	13.4 (6.1-14.1)
	Heating (UK)	9.63 (2.41-10.75)	11.61 (3.53-12.90)	12.90 (3.61-13.59)
	Cooling (UK)	8.65 (3.64-9.65)	11.01 (5.46-11.83)	12.19 (5.55-12.83)
SHF (nominal)		0.82	0.78	0.77
COP / EER (nominal)		3.80 / 3.30	3.61 / 3.01	3.61 / 2.81
SCOP (ηsh) / SEER (ηsc) (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%)
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	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")
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)		63	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-42MAAB	PAR-42MAAB	PAR-42MAAB

PUZ-M - OUTDOOR UNITS		PUZ-M100YKA3 [3]	PUZ-M125YKA3 [3]	PUZ-M140YKA3 [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 INPUT (kW)	Heating/Cooling (nominal)	2.947 / 2.878	3.739 / 4.019	4.155 / 4.768
	Heating/Cooling (UK)	2.35 / 2.47	3.32 / 3.41	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	3.10 / 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

MAC-100FT-E

Plasma Quad Connect air purifying device

PAC-HA31PAR

Plasma Quad Connect metal fitment

Outdoor Units

PAC-SH96SG-E

Air outlet guide for PUZ-M100-140YKA3

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE42TS-E

Remote sensor

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB=Premium Finish)

PAR-42MAAB/MAAPB

Standard wired remote controller (MAAPB = Black Finish)

MAC-597IF-E

Interface for Wi-Fi connection to MELCloud Home service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

Retail control and input / output interface

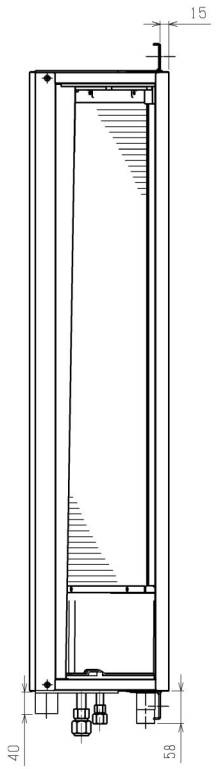
PAC-SJ95MA-E

M-NET adaptor for size 100 to 140

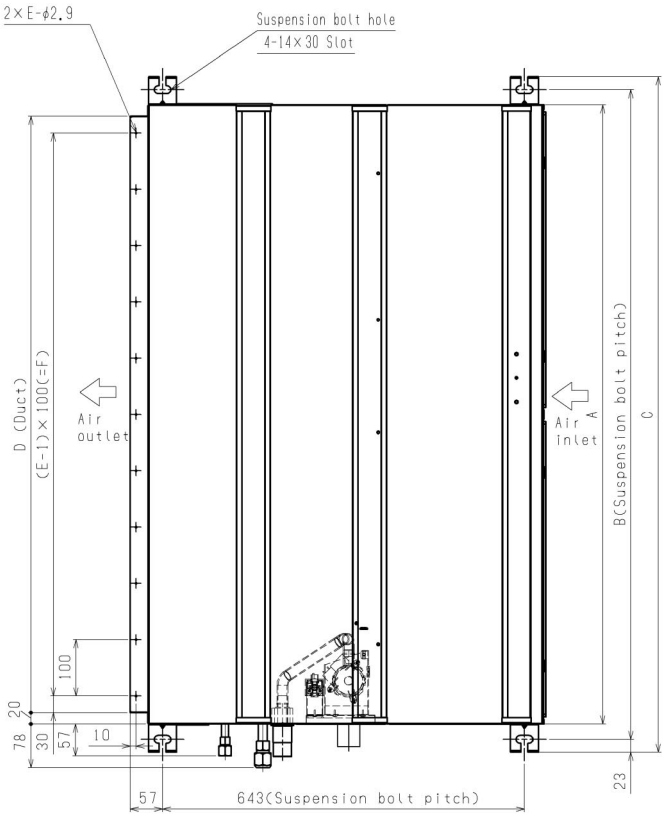
Note: Please see page 1.3.66 for the full range of accessories.

Product Dimensions PEAD-M100/125/140JA3

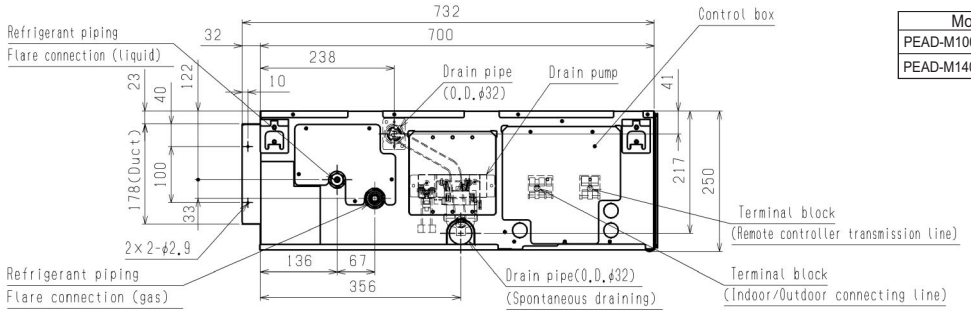
Front View



Upper View



Side View



Model	A	B	C	D	E	F
PEAD-M100,125JA3	1400	1454	1500	1360	14	1300
PEAD-M140JA3	1600	1654	1700	1560	16	1500

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-42MAAB controller enables effective energy consumption monitoring
- 'Backup and Rotate' feature reduces load on individual units and prolongs product life (requires PAR-42MAAB controller)
- Ultimate ductwork flexibility through 5 static pressure settings up to 250Pa
- Pre-filter included as standard

R32









POWER INVERTER

PEA-M - INDOOR UNITS		PEA-M200LA2	PEA-M250LA2
CAPACITY (kW)	Heating (nominal)	22.4 (7.1-25.0)	27.0 (7.3-31.0)
	Cooling (nominal)	19.0 (9.2-22.4)	22.0 (9.9-27.0)
	Heating (UK)	16.8 (5.3-18.8)	20.3 (5.5-23.3)
	Cooling (UK)	16.5 (8.0-19.5)	19.1 (8.6-23.5)
SHF (nominal)		0.80	0.79
COP / EER (nominal)		3.50 / 3.30	3.40 / 3.05
SCOP (ηsh) / SEER (ηsc) (BS EN14825)		3.60 (141.6%) / 5.70 (232.2%)	3.50 (139.7%) / 5.30 (213.7%)
AIRFLOW (l/s)	Lo-Mi-Hi	700-850-1000	833-1016-1200
PIPE SIZE mm (in)	Gas	28.58 (1 1/8")	28.58 (1 1/8")
	Liquid	9.52 (3/8")	12.7 (1/2")
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	69-70-70	71-71-72
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]		1.39 [4.8]	2.08 [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-42MAAB	PAR-42MAAB

PUZ-ZM - OUTDOOR UNITS		PUZ-ZM200YKA3 [3]	PUZ-ZM250YKA3 [3]
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)	6.40 / 5.76	7.94 / 7.21
	Heating/Cooling (UK)	5.18 / 4.89	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

Outdoor Units

PAC-SH96SG-E

Air outlet guide for PUZ-ZM200-250YKA3

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE42TS-E

Remote sensor

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB=Premium Finish)

PAR-42MAAB/MAAPB

Standard wired remote controller (MAAPB = Black Finish)

MAC-597IF-E

Interface for Wi-Fi connection to MELCloud Home service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

Retail control and input / output interface

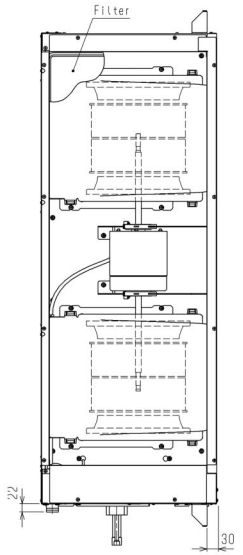
PAC-SJ95MA-E

M-NET adaptor for size 200 to 250

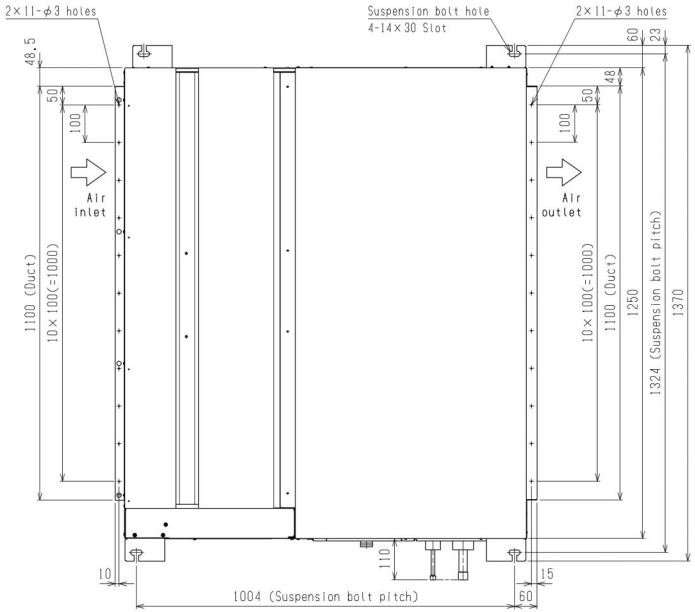
Note: Please see page 1.3.66 for the full range of accessories.

Product Dimensions PEA-M200/250LA2

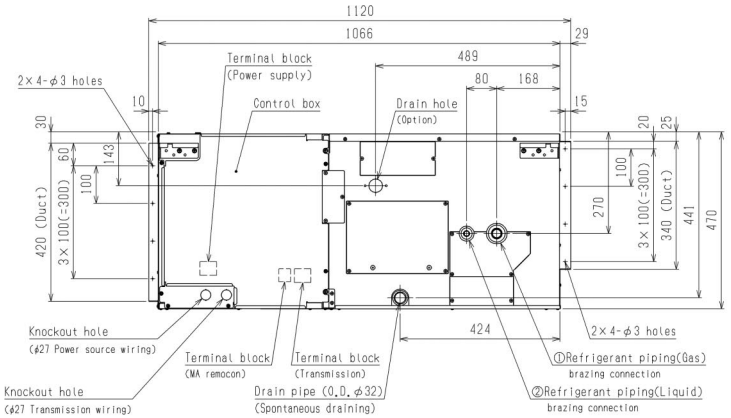
Front View



Upper View



Side View



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

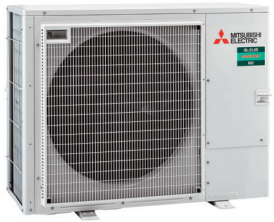
- 100m pipe run, in a new single fan chassis, increasing application capability
- Unit can be separated into two parts, allowing the coil section to be installed into a limited roof space
- Advanced airflow and smart defrost features to maximise comfort levels
- PAR-42MAAB controller enables effective energy consumption monitoring
- 'Backup and Rotate' feature reduces load on individual units and prolongs product life (requires PAR-42MAAB 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)	22.4 (5.4-25.0)	24.0 (6.3-27.6)
	Cooling (nominal)	19.0 (6.6-22.4)	22.0 (7.6-26.0)
	Heating (UK)	16.1 (3.9-18.0)	17.3 (4.5-19.9)
	Cooling (UK)	17.1 (5.9-20.2)	19.8 (6.8-23.4)
SHF (nominal)		0.80	0.79
COP / EER (nominal)		3.40 / 3.00	3.30 / 2.90
SCOP (ηsh) / SEER (ηsc) (BS EN14825)		3.77 (147.9%) / 5.50 (217.2%)	3.59 (140.5%) / 5.40 (213.2%)
AIRFLOW (l/s)	Lo-Mi-Hi	700-850-1000	833-1016-1200
PIPE SIZE mm (in)	Gas	22.2 (7/8")	22.2 (7/8")
	Liquid	9.52 (3/8")	9.52 (3/8")
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	69-70-70	71-71-72
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]		1.39 [4.8]	2.08 [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-42MAAB	PAR-42MAAB

PUZ-M - OUTDOOR UNITS		PUZ-M200YDA [3]	PUZ-M250YDA [3]
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	59 / 52	60 / 55
WEIGHT (kg)		120	120
DIMENSIONS (mm)	Width x Depth x Height	1100 x 505 x 870	1100 x 505 x 870
ELECTRICAL SUPPLY		380-415v, 50Hz	380-415v, 50Hz
PHASE		Three	Three
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal)	6.59 / 6.33	7.27 / 7.59
	Heating/Cooling (UK)	5.40 / 5.32	5.96 / 6.38
STARTING CURRENT (A)		5.0	5.0
RUNNING CURRENT (A)	Heating/Cooling [MAX]	9.08 / 8.72 [22.5]	9.84 / 10.30 [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		5.50 / 3.71	5.50 / 3.71
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (t) R32 (GWP 675)		2.80 / 1.89	2.80 / 1.89

[3] Three Phase

Accessories

Outdoor Units

PAC-SL12SG-E

Air outlet guide for PUZ-M200-250YDA

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE42TS-E

Remote sensor

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB=Premium Finish)

PAR-42MAAB/MAAPB

Standard wired remote controller (MAAPB = Black Finish)

MAC-597IF-E

Interface for Wi-Fi connection to MELCloud Home service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

Retail control and input / output interface

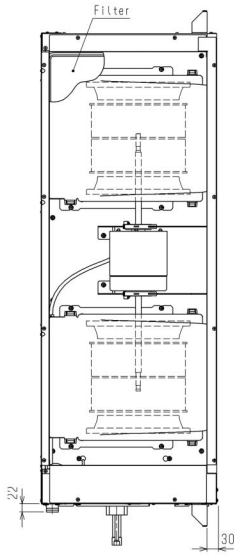
PAC-SL16MA-E

M-NET adaptor for size 200 to 250

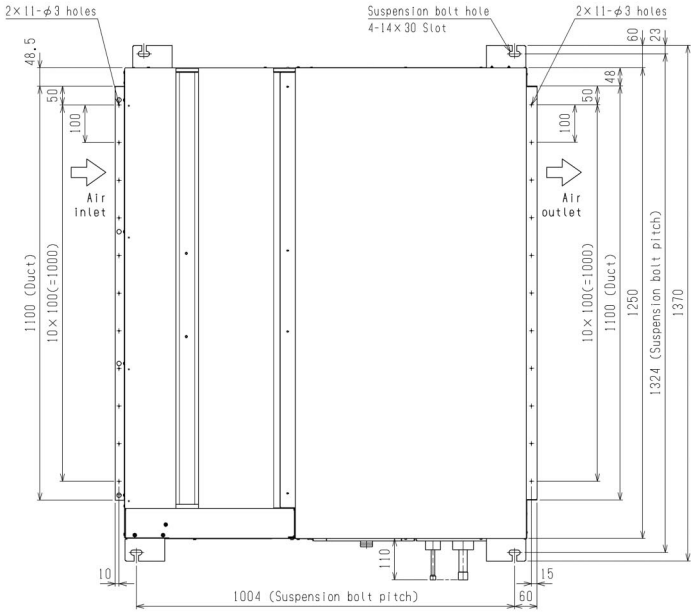
Note: Please see page 1.3.66 for the full range of accessories.

Product Dimensions PEA-M200/250LA2

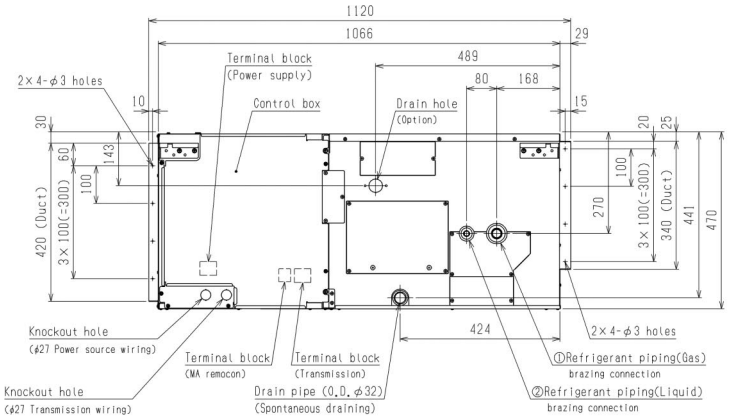
Front View



Upper View



Side View



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-42MAAB 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











SEZ-M - INDOOR UNITS		SEZ-M25DA3	SEZ-M35DA3	SEZ-M50DA3	SEZ-M60DA3	SEZ-M71DA3
CAPACITY (kW)	Heating (nominal)	2.9 (1.3-4.2)	-4.2 (1.1-5.0)	6.0 (1.5-7.2)	7.4 (1.6-8.0)	8.0 (2.0-10.2)
	Cooling (nominal)	2.5 (1.4-3.2)	3.5 (0.7-3.9)	5.0 (1.1-5.6)	6.1 (1.6-6.3)	7.1 (2.2-8.1)
	Heating (UK)	2.47 (1.11-3.57)	3.57 (0.94-4.25)	5.10 (1.28-6.12)	6.29 (1.36-6.80)	6.80 (1.70-8.67)
	Cooling (UK)	2.30 (1.29-2.94)	3.22 (0.64-3.59)	4.60 (1.01-5.15)	5.61 (1.47-5.80)	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")	9.52 (3/8")	12.7 (1/2")	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")
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	23-26-30	23-27-31	30-34-37	30-34-38	30-35-40
SOUND POWER LEVEL (dBA)		54	53	60	60	62
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-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB

SUZ-M - OUTDOOR UNITS		SUZ-M25VA2	SUZ-M35VA2	SUZ-M50VA2	SUZ-M60VA2	SUZ-M71VA2
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	53	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	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 INPUT (kW)	Heating/Cooling (nominal)	0.80 / 0.71	1.07 / 1.00	1.61 / 1.54	2.04 / 1.84	2.28 / 2.15
	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-M25-35VA2

MAC-882SG

Air outlet guide for SUZ-M50VA2

MAC-890SG-E

Air outlet guide for SUZ-M60VA2 / SUZ-M71VA2

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE42TS-E

Remote sensor

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB=Premium Finish)

PAR-42MAAB/MAAPB

Standard wired remote controller (MAAPB = Black Finish)

MAC-334IF-E

Interface for M-NET, MA remote controller (PAR-42MAAB / PAR-CT01MAA), on/off input and run/fault output

MAC-497IF-E

Interface for MA remote controller (PAR-42MAAB / PAR-CT01MAA)

MAC-597IF-E

Interface for Wi-Fi connection to MELCloud Home service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

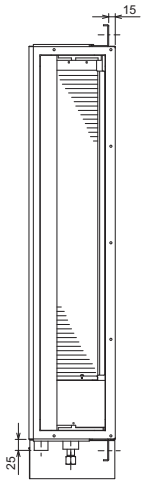
Retail control and input / output interface

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

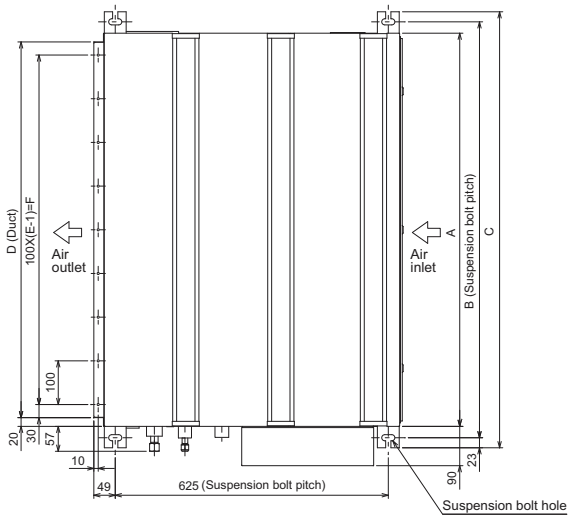
Product Dimensions

SEZ-M25/35/50/60/71DA3

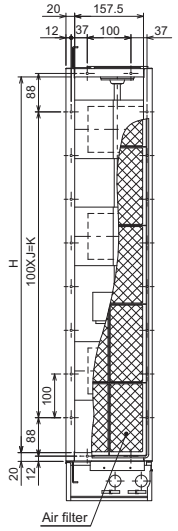
Front View



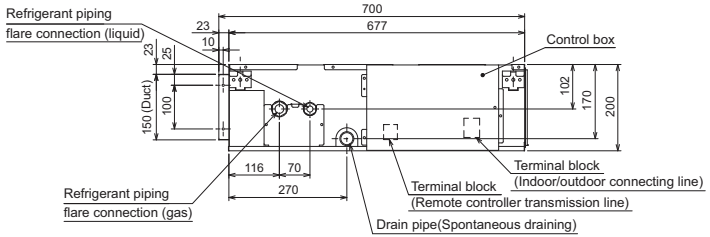
Upper View



Back View



Side View



Model	A	B	C	D	E	F	G	H	J	K	L
SEZ-M25DA3	700	752	798	660	7	600	800	660	5	500	16
SEZ-M35DA3	900	952	998	860	9	800	1000	860	7	700	20
SEZ-M50DA3											
SEZ-M60DA3	1100	1152	1198	1060	11	1000	1200	1060	9	900	24
SEZ-M71DA3											

PCA-M R32 Ceiling Suspended System

Power Inverter Heat Pump
(Single Phase)













POWER INVERTER

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-42MAAB 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-42MAAB controller)

R32

PCA-M - INDOOR UNITS		PCA-M50KA3	PCA-M60KA3	PCA-M71KA3	PCA-M100KA3	PCA-M125KA3	PCA-M140KA3
CAPACITY (kW)	Heating (nominal)	5.5 (2.5-6.6)	7.0 (2.8-8.2)	8.0 (3.5-10.2)	11.2 (2.7-14.0)	14.0 (3.2-16.0)	16.0 (3.7-18.0)
	Cooling (nominal)	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 (5.1-14.0)	13.4 (5.4-15.0)
	Heating (UK)	4.7 (2.15-5.6)	5.95 (2.4-6.95)	6.8 (3.0-8.65)	8.06 (1.94-10.08)	10.08 (2.30-11.52)	11.52 (2.66-12.96)
	Cooling (UK)	4.6 (2.1-5.15)	5.5 (2.5-6.15)	6.55 (3.05-7.45)	8.74 (4.51-10.49)	11.50 (4.69-12.88)	12.33 (4.97-13.80)
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	3.60 / 4.00	3.30 / 3.30	3.40 / 3.40
SCOP (ηsh) / SEER (ηsc) (BS EN14825)		4.20 / 6.70	4.10 / 6.50	4.20 / 6.70	4.30 / 6.40	4.34 (170.5%) / 6.39 (252.6%)	4.44 (174.7%) / 6.35 (250.9%)
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-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB
WIRELESS REMOTE CONTROLLER REFERENCE		PAR-SL95B-E	PAR-SL95B-E	PAR-SL95B-E	PAR-SL95B-E	PAR-SL95B-E	PAR-SL95B-E

PUZ-ZM - OUTDOOR UNITS		PUZ-ZM50VKA3	PUZ-ZM60VHA3	PUZ-ZM71VHA3	PUZ-ZM100VDA2	PUZ-ZM125VDA2	PUZ-ZM140VDA2
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	46 / 44	49 / 47	49 / 47	48 / 44	50 / 47	51 / 49
SOUND POWER LEVEL (dBA)	Cooling	65	67	67	63	66	68
WEIGHT (kg)		46	67	67	107	107	107
DIMENSIONS (mm)	Width x Depth x Height	809 x 300 x 630	950 x 330+25 x 943	950 x 330+25 x 943	1100 x 460+45 x 870	1100 x 460+45 x 870	1100 x 460+45 x 870
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	3.112 / 2.375	4.243 / 3.788	4.706 / 3.942
	Heating/Cooling (UK)	1.21 / 1.06	1.55 / 1.29	1.92 / 1.55	2.55 / 2.02	3.48 / 3.22	3.86 / 3.35
STARTING CURRENT (A)		4.3	5.3	5.3	11.9	11.9	11.9
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]	14.39 / 10.99 [27.2]	19.63 / 17.52 [27.3]	21.77 / 18.23 [30.9]
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-SL95B-E

Wireless remote controller and adaptor for PCA-M50-140KA3

Outdoor Units

PAC-SJ07SG-E

Air outlet guide for PUZ-ZM50VKA3

PAC-SG59SG-E

Air outlet guide for PUZ-ZM60-71VHA3

PAC-SL12SG-E

Air outlet guide for PUZ-ZM100-140VDA2

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE42TS-E

Remote sensor

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB=Premium Finish)

PAR-42MAAB/MAAPB

Standard wired remote controller (MAAPB = Black Finish)

MAC-597IF-E

Interface for Wi-Fi connection to MELCloud Home 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-E

M-NET adaptor for size 60 and 71

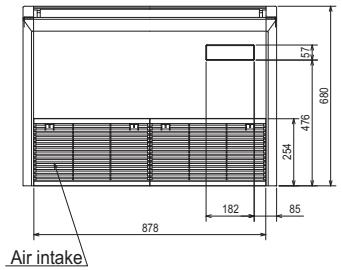
PAC-SL16MA-E

M-NET Adaptor for size 100 to 140

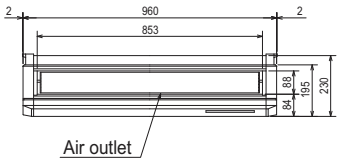
Note: Please see page 1.3.66 for the full range of accessories.

Product Dimensions PCA-M50KA3

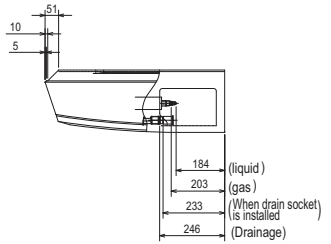
Lower View



Front View

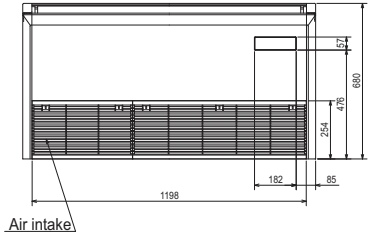


Side View

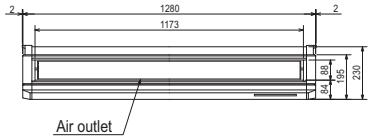


Product Dimensions PCA-M60/71KA3

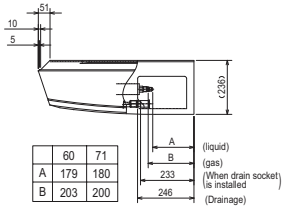
Lower View



Front View



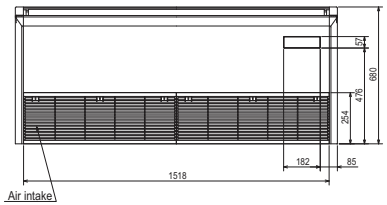
Side View



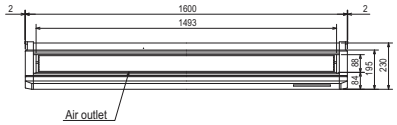
	60	71
A	179	180
B	203	200

Product Dimensions PCA-M100/125/140KA3

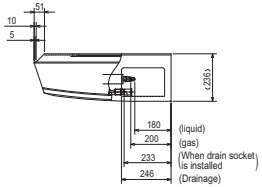
Lower View



Front View



Side View



PCA-M R32 Ceiling Suspended System

Power Inverter Heat Pump
(Three Phase)







POWER INVERTER

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-42MAAB 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-42MAAB controller)

R32

PCA-M - INDOOR UNITS		PCA-M100KA3	PCA-M125KA3	PCA-M140KA3
CAPACITY (kW)	Heating (nominal)	11.2 (2.7-14.0)	14.0 (3.2-16.0)	16.0 (3.7-18.0)
	Cooling (nominal)	9.5 (4.9-11.4)	12.5 (5.1-14.0)	13.4 (5.4-15.0)
	Heating (UK)	8.06 (1.94-10.08)	10.08 (2.30-11.52)	11.52 (2.66-12.96)
	Cooling (UK)	8.74 (4.51-10.49)	11.50 (4.69-12.88)	12.33 (4.97-13.80)
SHF (nominal)		0.77	0.72	0.72
COP / EER (nominal)		3.60 / 4.00	3.30 / 3.30	3.40 / 3.40
SCOP (ηsh) / SEER (ηsc) (BS EN14825)		4.30 / 6.20	4.34 (170.4%) / 6.35 (251.1%)	4.44 (174.7%) / 6.31 (249.5%)
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-42MAAB	PAR-42MAAB	PAR-42MAAB
WIRELESS REMOTE CONTROLLER REFERENCE		PAR-SL95B-E	PAR-SL95B-E	PAR-SL95B-E

PUZ-ZM - OUTDOOR UNITS		PUZ-ZM100YDA2 [3]	PUZ-ZM125YDA2 [3]	PUZ-ZM140YDA2 [3]
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	48 / 44	50 / 47	51 / 49
SOUND POWER LEVEL (dBA)	Cooling	63	66	68
WEIGHT (kg)		114	116	121
DIMENSIONS (mm)	Width x Depth x Height	1100 x 460+45 x 870	1100 x 460+45 x 870	1100 x 460+45 x 870
ELECTRICAL SUPPLY		380-415v,50Hz	380-415v,50Hz	380-415v,50Hz
PHASE		Three	Three	Three
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal)	3.112 / 2.375	4.243 / 3.788	4.706 / 3.942
	Heating/Cooling (UK)	2.55 / 2.02	3.48 / 3.22	3.86 / 3.35
STARTING CURRENT (A)		3.5	3.5	3.5
SYSTEM RUNNING CURRENT (A)	Heating/Cooling [MAX]	4.79 / 3.65 [8.7]	6.52 / 5.82 [9.8]	7.23 / 6.05 [9.9]
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-SL95B-E

Wireless remote controller and adaptor for PCA-M100-140KA3

Outdoor Units

PAC-SL12SG-E

Air outlet guide for PUZ-ZM100-140YDA2

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE42TS-E

Remote sensor

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB=Premium Finish)

PAR-42MAAB/MAAPB

Standard wired remote controller (MAAPB = Black Finish)

MAC-597IF-E

Interface for Wi-Fi connection to MELCloud Home service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

Retail control and input / output interface

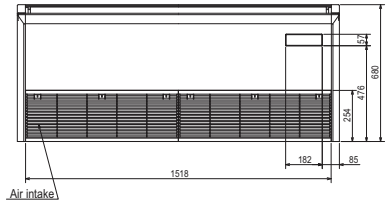
PAC-SL16MA-E

M-NET adaptor for size 100 to 140

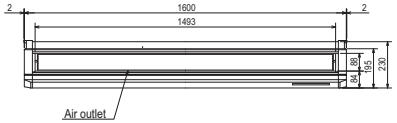
Note: Please see page 1.3.66 for the full range of accessories.

Product Dimensions PCA-M100/125/140KA3

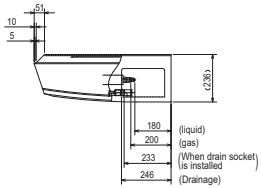
Lower View



Front View



Side View



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-42MAAB 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-42MAAB controller)

R32













PCA-M - INDOOR UNITS		PCA-M50KA3	PCA-M60KA3	PCA-M71KA3	PCA-M100KA3	PCA-M125KA3	PCA-M140KA3
CAPACITY (kW)	Heating (nominal)	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)	5.0 (1.5-5.6)	6.1 (1.6-6.3)	7.1 (2.2-8.1)	9.5 (4.0-10.6)	12.1 (5.7-13.0)	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 (3.64-9.65)	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-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") / 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-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-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB
WIRELESS REMOTE CONTROLLER REFERENCE		PAR-SL95B-E	PAR-SL95B-E	PAR-SL95B-E	PAR-SL95B-E	PAR-SL95B-E	PAR-SL95B-E

SUZ-M / PUZ-M - OUTDOOR UNITS		SUZ-M50VA2	SUZ-M60VA2	SUZ-M71VA2	PUZ-M100VKA3	PUZ-M125VKA3	PUZ-M140VKA3
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	53	54	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)	3.60 / 2.43 (30m)
MAX ADDITIONAL REFRIGERANT (KG) / CO_2EQUIVALENT (T)	R32 (GWP 675)	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: Duty/standby not available on SUZ-M50/60/71VA2.

Accessories

Indoor Units

PAR-SL95B-E

Wireless remote controller and adaptor for PCA-M100-140KA3

Outdoor Units

MAC-882SG

Air outlet guide for SUZ-M50VA2

MAC-890SG-E

Air outlet guide for SUZ-M60VA2 / SUZ-M71VA2

PAC-SH96SG-E

Air outlet guide for PUZ-M100-140VKA3

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE42TS-E

Remote sensor

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB=Premium Finish)

PAR-42MAAB/MAAPB

Standard wired remote controller (MAAPB = Black Finish)

MAC-334IF-E

Interface for M-NET, MA remote controller
(PAR-42MAAB / PAR-CT01MAA),
on/off input and run/fault output

MAC-497IF-E

Interface for MA remote controller (PAR-42MAAB / PAR-CT01MAA)

MAC-597IF-E

Interface for Wi-Fi connection to MELCloud Home service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

Retail control and input / output interface

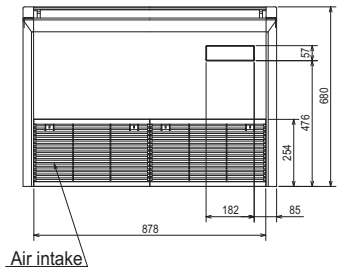
PAC-SJ95MA-E

M-NET adaptor for size 100 to 140

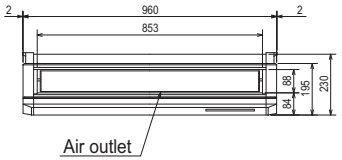
Note: Please see page 1.3.66 for the full range of accessories.

Product Dimensions PCA-M50KA3

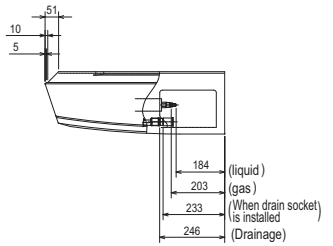
Lower View



Front View

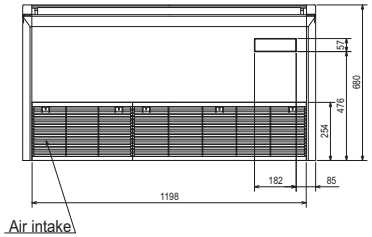


Side View

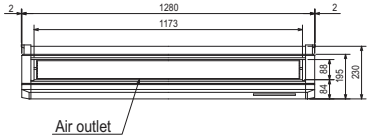


Product Dimensions PCA-M60/71KA3

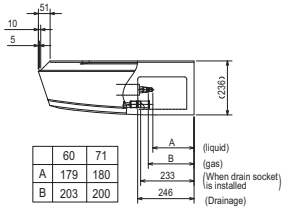
Lower View



Front View



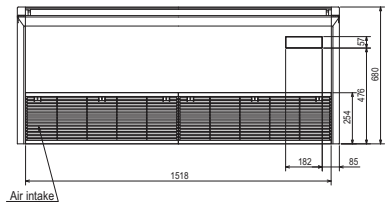
Side View



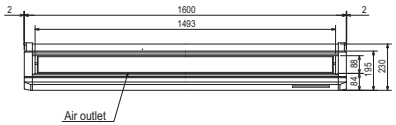
	60	71
A	179	180
B	203	200

Product Dimensions PCA-M100/125/140KA3

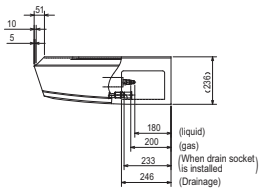
Lower View



Front View



Side View



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-42MAAB 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-42MAAB controller)

R32







PCA-M - INDOOR UNITS		PCA-M100KA3	PCA-M125KA3	PCA-M140KA3
CAPACITY (kW)	Heating (nominal)	11.2 (2.8-12.5)	13.5 (4.1-15.0)	15.0 (4.2-15.8)
	Cooling (nominal)	9.5 (4.0-10.6)	12.1 (5.7-13.0)	13.4 (5.7-14.1)
	Heating (UK)	9.63 (2.41-10.75)	11.61 (3.53-12.90)	12.90 (3.61-13.59)
	Cooling (UK)	8.65 (3.64-9.65)	11.01 (5.19-11.83)	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 (ηsh) / SEER (ηsc) (BS EN14825)		4.10 / 6.00	4.10 (162.7%) / 5.20 (213%)	4.00 (158.7%) / 5.10 (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-42MAAB	PAR-42MAAB	PAR-42MAAB
WIRELESS REMOTE CONTROLLER REFERENCE		PAR-SL95B-E	PAR-SL95B-E	PAR-SL95B-E

PUZ-M - OUTDOOR UNITS		PUZ-M100YKA3 [3]	PUZ-M125YKA3 [3]	PUZ-M140YKA3 [3]
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	3.95 / 4.01	4.28 / 5.36
	Heating/Cooling (UK)	2.95 / 2.44	3.56 / 3.33	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_2EQUIVALENT (T)	R32 (GWP 675)	4.10 / 2.77	5.00 / 3.38	5.00 / 3.38

[3] Three Phase

Accessories

Indoor Units

PAR-SL95B-E

Wireless remote controller and adaptor for PCA-M100-140KA3

Outdoor Units

PAC-SH96SG-E

Air outlet guide for PUZ-M100-140YKA3

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE42TS-E

Remote sensor

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB=Premium Finish)

PAR-42MAAB/MAAPB

Standard wired remote controller (MAAPB = Black Finish)

MAC-597IF-E

Interface for Wi-Fi connection to MELCloud Home service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

Retail control and input / output interface

PAC-SJ95MA-E

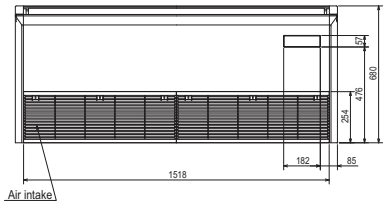
M-NET adaptor for size 100 to 140

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

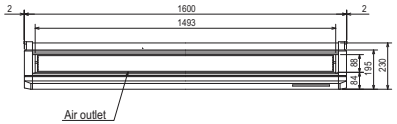
Product Dimensions

PCA-M100/125/140KA3

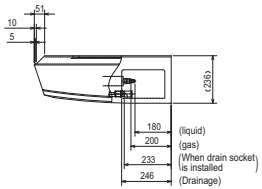
Lower View



Front View



Side View



PCA-M-HA3 R32 Stainless Steel Ceiling Suspended System

Power Inverter Heat Pump
(Single Phase)









POWER INVERTER

The **PCA-M-HA3 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-42MAAB controller)
- 'Backup and rotate' feature to reduce load on individual units and prolong product life (requires PAR-42MAAB 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

R32

PCA-M-HA2 - INDOOR UNIT		**PCA-M71HA3**
CAPACITY (kW)	Heating (nominal)	7.6 (3.5-10.2)
	Cooling (nominal)	7.1 (3.3-8.1)
	Heating (UK)	6.8 (3.0-8.65)
	Cooling (UK)	6.55 (3.05-7.45)
SHF (nominal)		0.74
COP / EER (nominal)		3.50 / 3.51
SCOP / SEER		3.90 / 5.60
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-42MAAB
WIRELESS REMOTE CONTROLLER REFERENCE		PAR-SL95B-E

PUZ-ZM - OUTDOOR UNIT		**PUZ-ZM71VHA3**
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)	1.82 / 1.65
	Heating/Cooling (UK)	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) R32 (GWP 675) - 30m		2.80 / 1.89
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (t) R32 (GWP 675)		0.80 / 0.54

Accessories

Indoor Units

PAR-SL95B-E
Wireless remote controller and adaptor for PCA-M71HA3

PAC-SG38KF
Oil mist filter for PCA-M71HA3 (12 pack)

Outdoor Units

PAC-SG59SG-E
Air outlet guide for PUZ-ZM71VKA3

System Control Units

PAC-SA89TA
Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA
Run/fault adaptor (5 wire adaptor)

PAC-SE42TS-E
Remote sensor

PAR-CT01MAA-SB/PB
Touch screen wired remote controller (PB=Premium Finish)

PAR-42MAAB/MAAPB
Standard wired remote controller (MAAPB = Black Finish)

MAC-597IF-E
Interface for Wi-Fi connection to MELCloud Home service

MELCOBEMS MINI (A1M+)
Modbus and BACnet MSTP CN105 adaptor

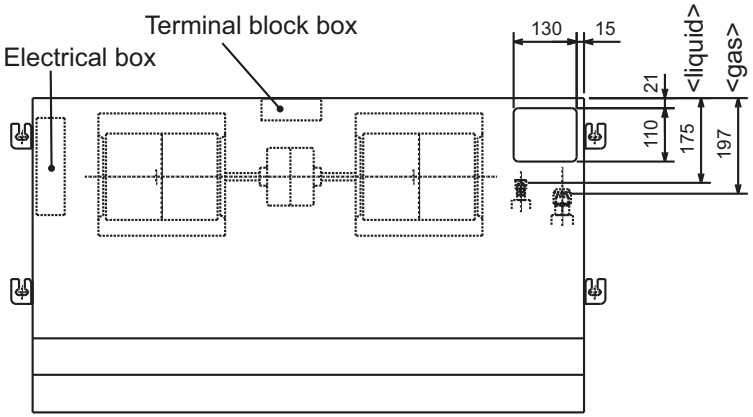
MELCORETAIL MINI
Retail control and input / output interface

PAC-SJ95MA-E
M-NET adaptor for size 71

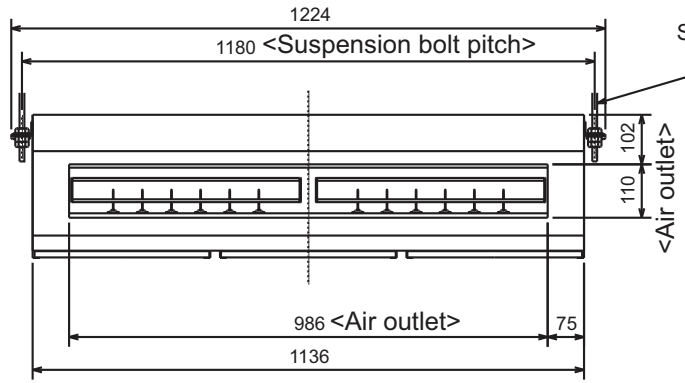
Note: Please see page 1.3.66 for the full range of accessories.

Product Dimensions PCA-M71HA3

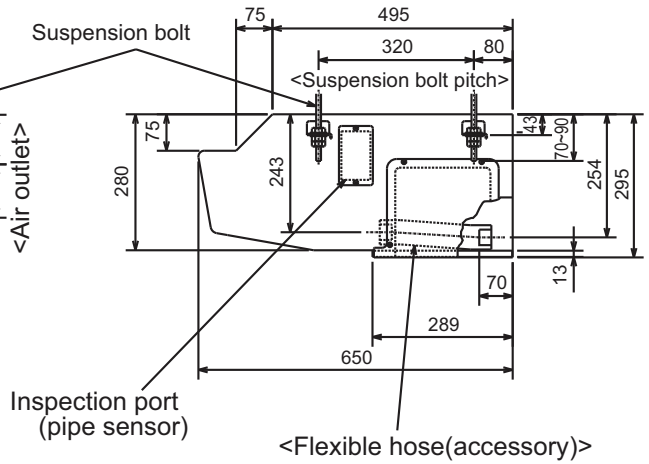
Upper View



Front View



Side View



PSA-M R32 Floor Standing System

Power Inverter Heat Pump







POWER INVERTER

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-42MAAB 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-M71KA2	PSA-M100KA2	PSA-M100KA2	PSA-M125KA2	PSA-M125KA2	PSA-M140KA2	PSA-M140KA2
CAPACITY (kW)	Heating (nominal)	7.6 (3.5-10.2)	11.2 (2.7-14.0)	11.2 (2.7-14.0)	14.0 (3.2-16.0)	14.0 (3.2-16.0)	16.0 (3.7-18.0)	16.0 (3.7-18.0)
	Cooling (nominal)	7.1 (3.3-8.1)	9.5 (4.9-11.4)	9.5 (4.9-11.4)	12.5 (5.1-14.0)	12.5 (5.1-14.0)	13.4 (5.4-15.0)	13.4 (5.4-15.0)
	Heating (UK)	6.45 (3.0-8.65)	8.06 (1.94-10.08)	8.06 (1.94-10.08)	10.08 (2.30-11.52)	10.08 (2.30-11.52)	11.52 (2.66-12.96)	11.52 (2.66-12.96)
	Cooling (UK)	6.55 (3.05-7.45)	8.74 (4.51-10.49)	8.74 (4.51-10.49)	11.50 (4.69-12.88)	11.50 (4.69-12.88)	12.33 (4.97-13.80)	12.33 (4.97-13.80)
SHF (nominal)		0.79	0.73	0.73	0.72	0.72	0.71	0.71
COP / EER (nominal)		3.25 / 3.76	3.40 / 3.81	3.40 / 3.81	2.90 / 3.00	2.90 / 3.00	3.00 / 3.37	3.00 / 3.37
SCOP (ηsh) / SEER (ηsc) (BS EN14825)		4.00 (157.8%) / 6.40 (266.2%)	4.10 / 5.70	4.10 / 5.60	3.93 (154.3%) / 5.40 (213.0%)	3.93 (154.2%) / 5.37 (211.9%)	4.06 (159.3%) / 6.34 (250.6%)	4.06 (159.3%) / 6.33 (250.0%)
ErP ENERGY EFFICIENCY CLASS	Heating/Cooling	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")
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	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-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB

PUZ-ZM - OUTDOOR UNITS		PUZ-ZM71VHA3	PUZ-ZM100VDA2	PUZ-ZM100YDA2 [3]	PUZ-ZM125VDA2	PUZ-ZM125YDA2 [3]	PUZ-ZM140VDA2	PUZ-ZM140YDA2 [3]
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	49 / 47	48 / 44	48 / 44	50 / 47	50 / 47	51 / 49	51 / 49
SOUND POWER LEVEL (dBA)	Cooling	67	63	63	66	66	68	68
WEIGHT (kg)		67	107	114	107	116	107	121
DIMENSIONS (mm)	Width x Depth x Height	950 x 330+25 x 943	1100 x 460+45 x 870	1100 x 460+45 x 870	1100 x 460+45 x 870	1100 x 460+45 x 870	1100 x 460+45 x 870	1100 x 460+45 x 870
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)	2.338 / 1.888	3.295 / 2.494	3.295 / 2.494	4.828 / 4.167	4.828 / 4.167	5.334 / 3.977	5.334 / 3.977
	Heating/Cooling (UK)	2.08 / 1.60	2.70 / 2.12	2.70 / 2.12	3.96 / 3.54	3.96 / 3.54	4.37 / 3.38	4.37 / 3.38
STARTING CURRENT (A)		5.3	11.9	3.5	11.9	3.5	11.9	3.5
SYSTEM RUNNING CURRENT (A)	Heating/Cooling [MAX]	9.05 / 6.96 [19.4]	15.24 / 11.54 [27.2]	5.06 / 3.83 [8.7]	22.33 / 19.27 [27.2]	7.41 / 6.40 [9.7]	24.67 / 18.40 [30.7]	8.19 / 6.11 [9.7]
FUSE RATING (BS88) - HRC (A)		25	32	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)	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	2.40 / 1.62

3 Three Phase **Note:** Includes built in PAR-42MAAB wired remote controller.

Accessories

Outdoor Units

PAC-SG59SG-E

Air outlet guide for PUZ-ZM71VHA2

PAC-SL12SG-E

Air outlet guide for PUZ-ZM100-140VDA2/YDA2

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE42TS-E

Remote sensor

MAC-597IF-E

Interface for Wi-Fi connection to MELCloud Home service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

Retail control and input / output interface

PAC-SJ95MA-E

M-NET adaptor for size 71

PAC-SL16MA-E

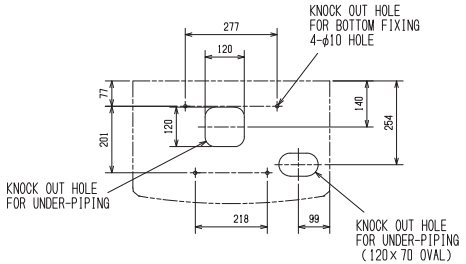
M-NET Adaptor for size 100 to 140

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

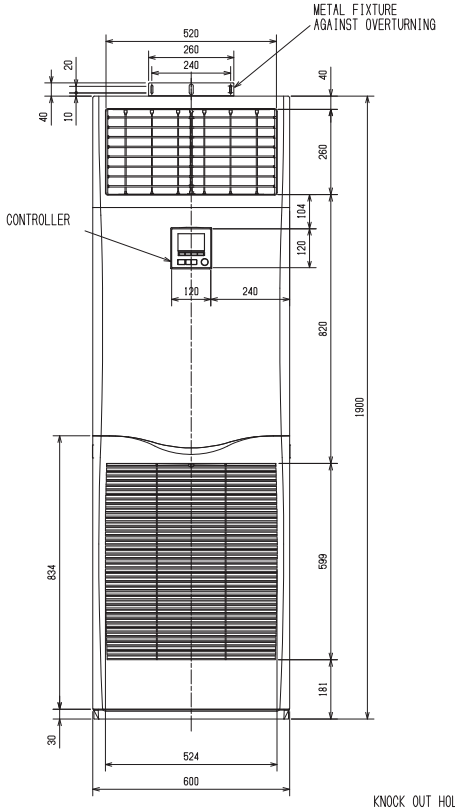
Product Dimensions

PSA-M71/100/125/140KA2

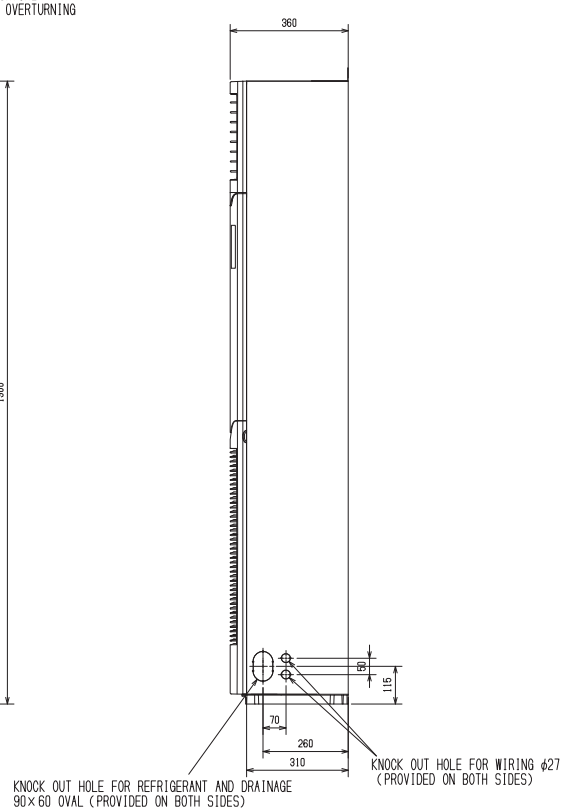
Upper View



Front View



Side View



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-42MAAB 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-M71KA2	PSA-M100KA2	PSA-M100KA2	PSA-M125KA2	PSA-M125KA2	PSA-M140KA2	PSA-M140KA2
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 (ηsh) / SEER (ηsc) (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")
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	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-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB

SUZ-M / PUZ-M - OUTDOOR UNITS		SUZ-M71VA2	PUZ-M100VKA3	PUZ-M100YKA3 ③	PUZ-M125VKA3	PUZ-M125YKA3 ③	PUZ-M140VKA3	PUZ-M140YKA3 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)		54	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 INPUT (kW)	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
	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)	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	5.00 / 3.38

③ Three Phase **Note:** Includes built in PAR-42MAAB wired remote controller.

Accessories

Outdoor Units

MAC-890SG-E

Air outlet guide for SUZ-M71VA2

PAC-SH96SG-E

Air outlet guide for PUZ-M100-140VKA3/YKA3

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE42TS-E

Remote sensor

MAC-597IF-E

Interface for Wi-Fi connection to MELCloud Home service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

Retail control and input / output interface

PAC-SJ95MA-E

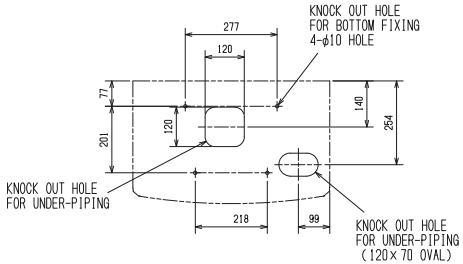
M-NET adaptor for size 71 to 140

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

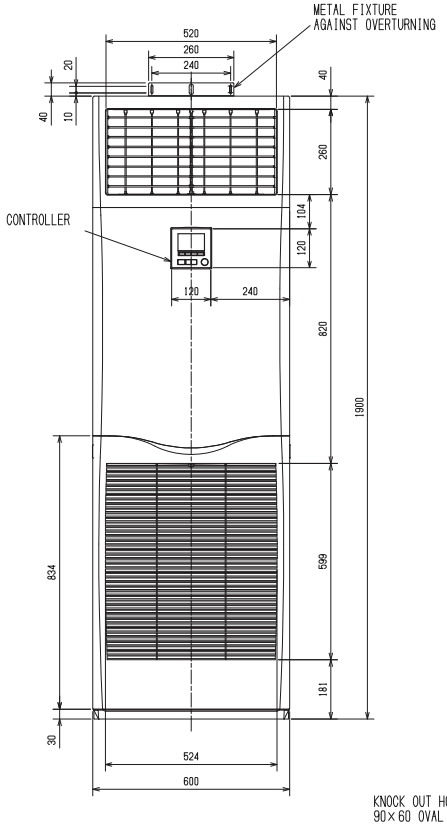
Product Dimensions

PSA-M71/100/125/140KA2

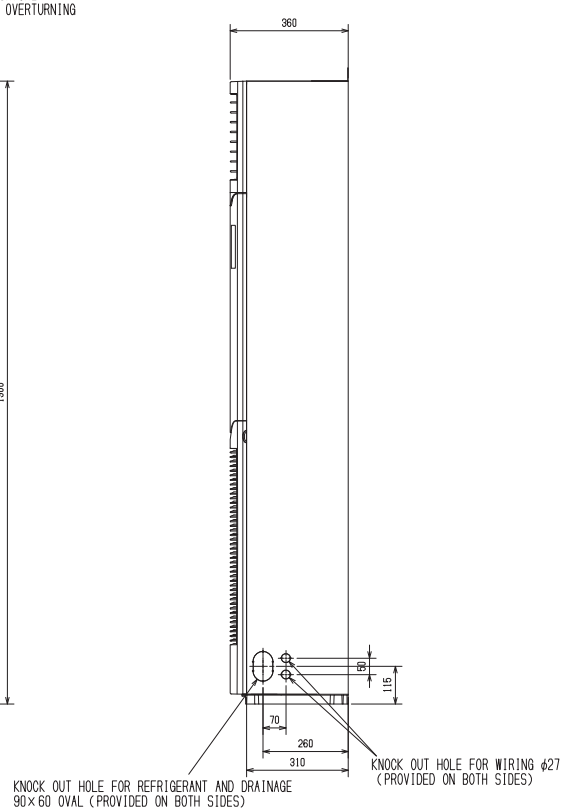
Upper View



Front View



Side View



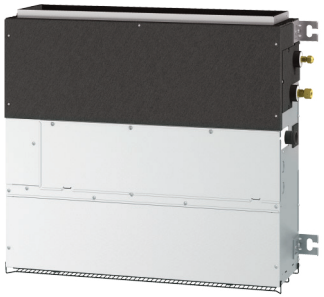
SFZ-M R32 Floor Mounted System

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-M25VA2	SFZ-M35VA2	SFZ-M50VA2	SFZ-M60VA2	SFZ-M71VA2
CAPACITY (kW)	Heating (nominal)	3.2 (1.2-4.2)	4.1 (1.0-5.0)	6.0 (1.5-7.2)	7.0 (1.6-8.0)	8.0 (2.0-10.2)
	Cooling (nominal)	2.5 (1.5-3.2)	3.5 (0.7-3.9)	5.0 (1.1-5.6)	6.1 (1.6-6.3)	7.1 (1.9-8.1)
	Heating (UK)	2.47 (1.11-3.57)	3.57 (0.94-4.25)	5.10 (1.28-6.12)	6.29 (1.36-6.80)	6.80 (1.70-8.67)
	Cooling (UK)	2.30 (1.29-2.94)	3.22 (0.64-3.59)	4.60 (1.01-5.15)	5.61 (1.47-5.80)	6.53 (2.02-7.45)
SHF (nominal)		0.84	0.78	0.76	0.75	0.74
COP / EER (nominal)		3.61 / 3.90	3.90 / 3.50	3.71 / 3.40	3.71 / 3.30	3.71 / 3.30
SCOP / SEER (BS EN14825)		4.00 / 6.10	4.10 / 6.10	4.10 / 6.10	4.20 / 6.10	4.00 / 6.10
ErP ENERGY EFFICIENCY CLASS	Heating/Cooling	A+ / A++	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	200-267-333
PIPE SIZE mm (in)	Gas	9.52 (3/8")	9.52 (3/8")	12.7 (1/2")	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")
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	1100 x 200 x 615
WEIGHT (kg)		19	22.5	22.5	26	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-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB

SUZ-M - OUTDOOR UNITS		SUZ-M25VA2	SUZ-M35VA2	SUZ-M50VA2	SUZ-M60VA2	SUZ-M71VA2
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	53	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	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 INPUT (kW)	Heating/Cooling (nominal)	0.886 / 0.641	1.051 / 1.00	1.617 / 1.47	1.886 / 1.848	2.156 / 2.151
	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) / 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

Outdoor Units

MAC-881SG

Air outlet guide for SUZ-M25-35VA2

MAC-882SG

Air outlet guide for SUZ-M50VA2

MAC-890SG-E

Air outlet guide for SUZ-M60VA2 / SUZ-M71VA2

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE42TS-E

Remote sensor

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB=Premium Finish)

PAR-42MAAB/MAAPB

Standard wired remote controller (MAAPB = Black Finish)

PAR-334IF-E

Interface for M-NET, MA remote controller
(PAR-42MAAB / PAR-CT01MAA),
on/off input and run/fault output

MAC-497IF-E

Interface for MA remote controller
(PAR-42MAAB / PAR-CT01MAA)

MAC-597IF-E

Interface for Wi-Fi connection to MELCloud Home service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

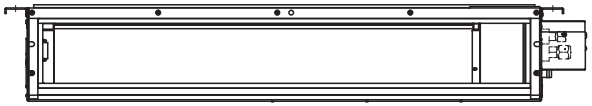
MELCORETAIL MINI

Retail control and input / output interface

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

Product Dimensions SFZ-M25/35/50/60/71VA2

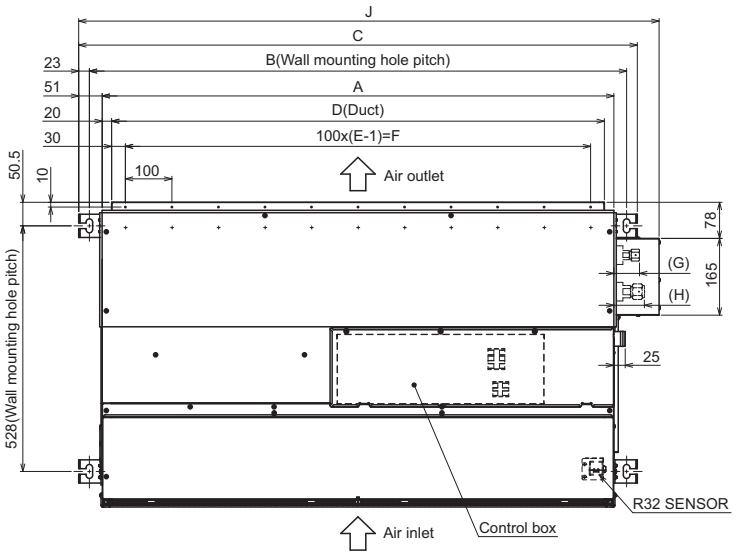
Upper View



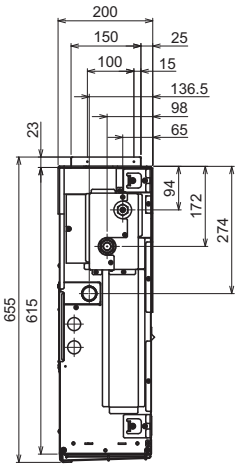
Lower View



Front View



Side View



MODEL	A	B	C	D	E	F	G	H	J
SFZ-M25VA2	700	756	802	660	7	600	50	55	848
SFZ-M35VA2	900	956	1002	860	9	800	50	55	1048
SFZ-M50VA2	900	956	1002	860	9	800	50	61	1048
SFZ-M60VA2	1100	1156	1202	1060	11	1000	50	66	1248
SFZ-M71VA2	1100	1156	1202	1060	11	1000	55	66	1248

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	13.2	13.2	15.7	15.7	21.0
	Cooling (nominal)	7.4	11.8	11.8	14.0	14.0	18.7
AIRFLOW MAX (l/s)		364	575	575	720	720	720
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 (%)*1		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	13.2	13.2	15.7	15.7	21.0
	Cooling (nominal)	7.4	11.8	11.8	14.0	14.0	18.7
AIRFLOW MAX (l/s)		364	575	575	720	720	720
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 (%)*1		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-ZM71VHA3	PUZ-ZM125VDA2	PUZ-ZM125YDA2 [3]	PUZ-ZM140VDA2	PUZ-ZM140YDA2 [3]	PUZ-ZM200YKA3 [3]
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	49 / 47	50 / 47	50 / 47	51 / 49	51 / 49	62 / 59
SOUND POWER LEVEL (dBA)	Cooling	67	66	66	68	68	77
WEIGHT (kg)		67	107	116	107	121	137
DIMENSIONS (mm)	Width x Depth x Height	950 x 330+25 x 943	1100 x 460+45 x 870	1100 x 460+45 x 870	1100 x 460+45 x 870	1100 x 460+45 x 870	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	11.9	3.5	11.9	3.5	5.0
SYSTEM RUNNING CURRENT (A)		7.79 / 7.06 [19.3]	15.23 / 14.57 [26.5]	5.23 / 5.16 [9.0]	17.72 / 15.24 [30.0]	5.93 / 5.21 [9.0]	9.57 / 8.58 [22.5]
FUSE RATING (BS88) - HRC (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) 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)	6.3 / 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	2.40 / 1.62	2.20 / 1.49

[3] Three Phase Notes: *1 Tested to ISO 27327.

Thermoscreens

Accessories

Outdoor Units

PAC-SG59SG-E

Air outlet guide for PUZ-ZM71VHA3

PAC-SL12SG-E

Air outlet guide for PUZ-ZM125-140VDA2/YDA2

System Control Units

PAC-SJ95MA-E

M-NET adaptor for size 71 and 200

PAC-SL16MA-E

M-NET Adaptor for size 100 to 140

PAR-42MAAB/MAAPB

Standard wired remote controller (MAAPB = Black Finish)

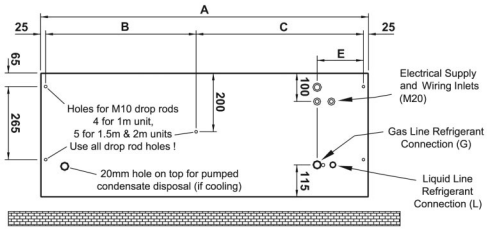
MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

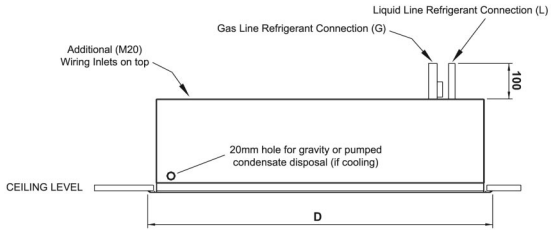
Note: Please see page 1.3.66 for the full range of accessories.

Product Dimensions HP1000/1500/2000R DX 2.0

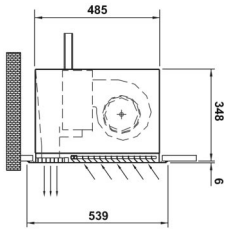
Front View



Upper View



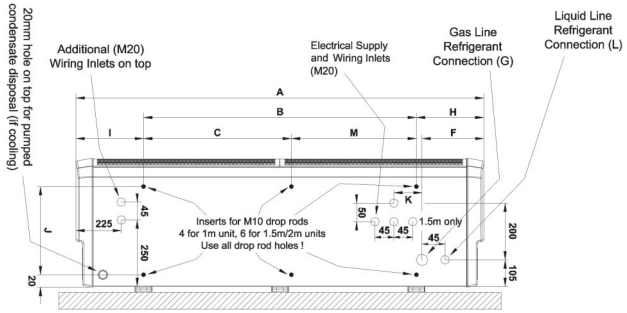
Side View



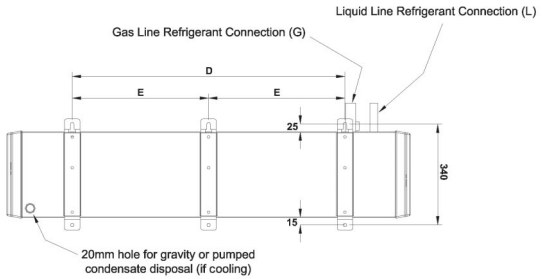
		HP1000R DX 2.0	HP1500R DX 2.0	HP2000R DX 2.0
A (mm)		1250	1750	2340
B (mm)		-	724	1129
C (mm)		-	976	1161
D (mm)		1303	1803	2393
E (mm)		170	166	189
G		5/8 in.	5/8 in.	7/8 in.
L		1/2 in.	1/2 in.	5/8 in.
Cut-Out in Ceiling	Length (mm)	1250	1750	2340
	Width (mm)	485	485	485

Product Dimensions HP1000/1500/2000 DX 2.0

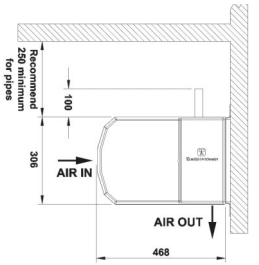
Front View



Upper View



Side View



	HP1000 DX 2.0	HP1500 DX 2.0	HP2000 DX 2.0
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	5/8 in.	5/8 in.	7/8 in.
H (mm)	442	333	299
I (mm)	253	267	258
J (mm)	359	359	334
K (mm)	80	45	80
L	1/2 in.	1/2 in.	5/8 in.
M (mm)	-	570	875

R32 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 (Mr Slim systems - requires PAR-42MAAB controller*1)
- High off-coil temperature minimises moisture in the air - ideal for applications such as computer rooms
- Flush-to-wall design, for simple installation

R32

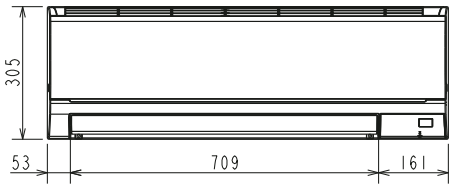
INDOOR UNITS		MSY-TP35VF2	PKA-M50LA3	PKA-M60KA3	MSY-TP50VF2	PKA-M71KA3	PCA-M71KA3	PCA-M100KA3	PCA-M125KA3	PCA-M125KA3
CAPACITY (kW)	Cooling (Rated) / Min-Max	3.5 (1.5-4.0)	3.6 (1.6-4.5)	4.6 (2.3-5.6)	5.0 (1.5-5.7)	6.1 (2.7-6.7)	6.1 (2.7-6.7)	7.1 (3.3-8.1)	9.5 (4.9-11.4)	9.5 (4.9-11.4)
SHF (Rated)		0.98	0.86	0.91	0.82	0.90	0.86	0.90	0.86	0.86
EER (Rated)		4.61	4.30	4.10	3.45	4.00	4.10	4.00	4.10	4.10
SEER (BS EN14825)		9.00	6.40	6.60	8.00	6.80	6.50	6.60	6.40	6.30
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	168-193-228-275	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 PRESSSURE 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)		12.1	12.6	21	12.1	21	32	37	38	38
ELECTRICAL SUPPLY		220-240v, 50Hz	Fed by Outdoor	Fed by Outdoor	220-240v, 50Hz	Fed by Outdoor	Fed by Outdoor	Fed by Outdoor	Fed by Outdoor	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-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB

OUTDOOR UNITS		MUY-TP35VF2	PUZ-ZM35VKA3	PUZ-ZM50VKA3	MUY-TP50VF2	PUZ-ZM60VHA3	PUZ-ZM60VHA3	PUZ-ZM71VHA3	PUZ-ZM100VDA2	PUZ-ZM100YDA2 (3)
SOUND PRESSURE LEVEL (dBA)	Cooling	45	44	44	47	47	47	47	44	44
SOUND POWER LEVEL (dBA)	Cooling	58	65	65	61	67	67	67	63	63
WEIGHT (kg)		32.5	46	46	32.5	67	67	67	107	114
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	1100 x 460 + 45 x 870	1100 x 460 + 45 x 870
ELECTRICAL SUPPLY		Fed by Indoor Unit	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	2.318	2.318
STARTING CURRENT (A)		3.6	5	5	6.4	6	6	6	11.9	3.5
SYSTEM RUNNING CURRENT (A)	Cooling [MAX]	3.6 [9.6]	4.31 [13.4]	5.57 [13.4]	6.4 [9.6]	6.65 [19.4]	6.48 [19.4]	7.81 [19.4]	10.06 [27.3]	3.36 [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)	2.00 / 1.35 (30m)	2.00 / 1.35 (30m)	0.85 / 0.57 (7m)	2.80 / 1.89 (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)		0.13 / 0.09	0.30 / 0.20	0.30 / 0.20	0.13 / 0.09	0.80 / 0.54	0.80 / 0.54	0.80 / 0.54	0.24 / 1.62	0.24 / 1.62

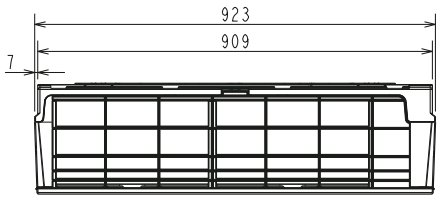
3 Three Phase Notes: *1 not supported on MSY-TP models.

Product Dimensions MSY-TP35/50VF2

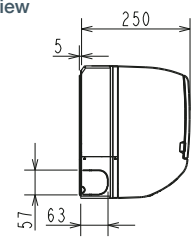
Front View



Upper View

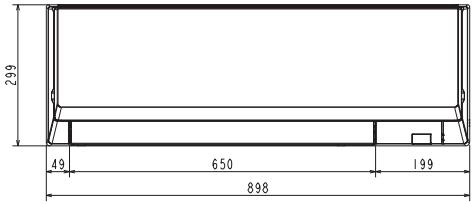


Side View

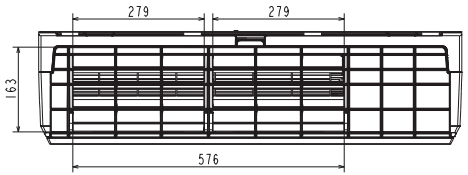


Product Dimensions PKA-M50LA3

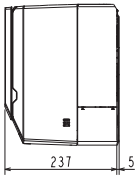
Front View



Upper View

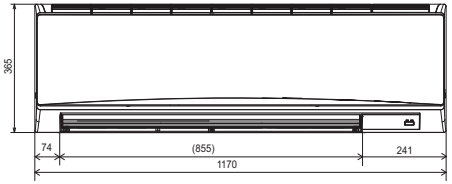


Side View

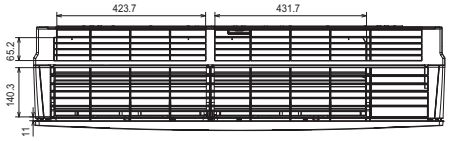


Product Dimensions PKA-M60/71KA3

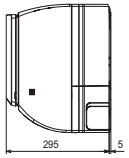
Front View



Upper View

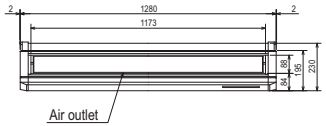


Side View

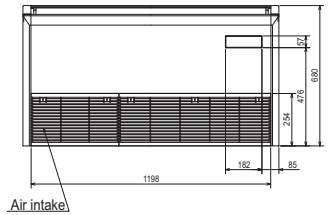


Product Dimensions PCA-M71KA3

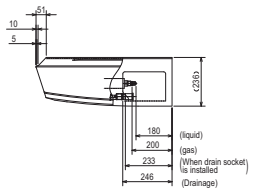
Front View



Upper View

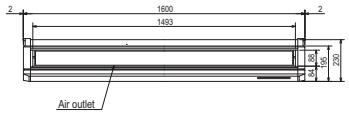


Side View

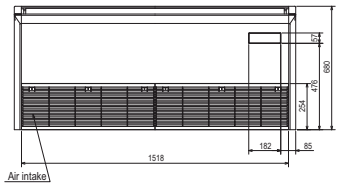


Product Dimensions PCA-M100/125KA3

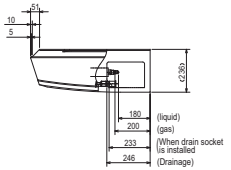
Front View



Upper View



Side View



PAC-IF013B-E R32 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

R32



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	6.0	7.0	8.0	11.2	14.0	16.0	22.4	27.0
	Cooling (nominal)		3.5	5.0	6.0	7.1	10.0	12.5	14.0	20.0	25.0
COMPATIBLE O.U	PUZ-ZM (R32)		PUZ-ZM35VKA3	PUZ-ZM50VKA3	PUZ-ZM60VHA3	PUZ-ZM71VHA3	PUZ-ZM100VDA2/YDA2	PUZ-ZM125VDA2/YDA2	PUZ-ZM140VDA2/YDA2	PUZ-ZM200YKA3	PUZ-ZM250YKA3
	PUZ-M (R32)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	PUZ-M200YDA	PUZ-M250YDA
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")	28.58 (1 1/8")	28.58 (1 1/8")
		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")	9.52 (3/8")	12.7 (1/2")
HEAT EXCHANGER (dm^3)	Max Volume	>30m	1.05	1.5	1.8	2.13	3.0	3.75	4.2	6.0	7.5
		20m	1.35	1.8	2.7	3.03	3.9	4.65	5.1	7.8	9.3
		10m	1.65	2.1	3.6	3.93	4.8	5.55	6.0	9.6	11.1
	Min Volume		0.35	0.5	0.6	0.71	1.0	1.25	1.4	2.0	2.5
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	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	2.5

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

Notes:

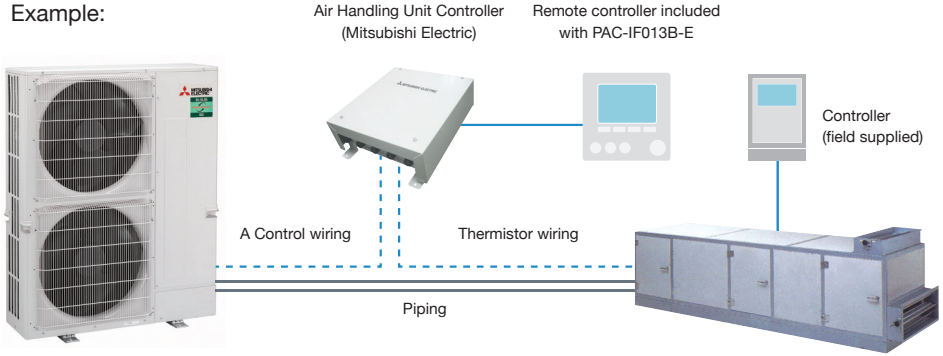
One air handling unit controller is required per heat exchanger.

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

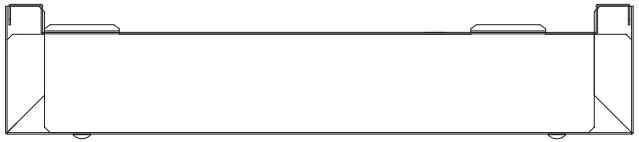
1. Connect 1 x PAC-IF013B-E unit per heat exchanger - these will operate as separate circuits with a controller on each which is included.
2. Connect 1 x PAC-IF013B-E for the first heat exchanger, then up to 5 additional sub PAC-SIF013B-E units. The included controller with the PAC-IF013B-E will additionally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

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

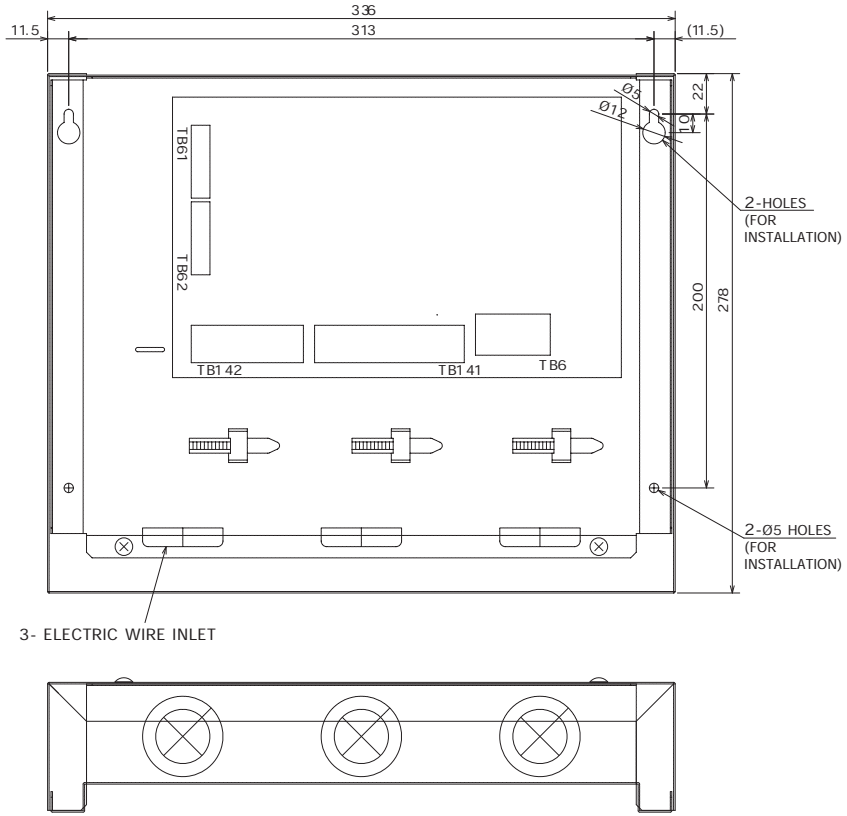
Example:



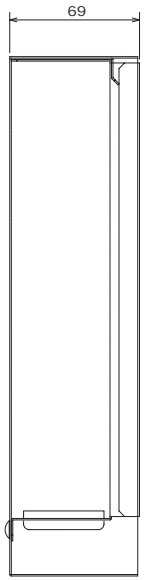
Upper View



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/SM & 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

OUTDOOR MODEL	REFRIGERANT	PIPE RUNS	MAX. PIPE RUN (M)
PUZ-ZM71VHA3	R32	A+B+C twin	55
PUZ-ZM100-140VDA2/YDA2	R32	A+B+C twin	100
PUZ-ZM200/250YKA3	R32	A+B+C twin	100
PUZ-M100VKA3/YKA3	R32	A+B+C twin	55
PUZ-M125-140VKA3/YKA3	R32	A+B+C twin	65
PUZ-M200/250YDA	R32	A+B+C twin	100
PUZ-ZM140VDA2/YDA2	R32	A+B+C+D triple	100
PUZ-ZM200/250YKA3	R32	A+B+C+D triple	100
PUZ-M140VKA3/YKA3	R32	A+B+C+D triple	65
PUZ-M200/250YDA	R32	A+B+C+D triple	100
PUZ-ZM200/250YKA3	R32	A+B+C+D+E quadruple	100
PUZ-M200/250YDA	R32	A+B+C+D+E quadruple	100
PUZ-ZM71VHA3 / PUZ-ZM100-140VDA2/YDA2	R32	B – C or C – D or B – D	≤ 8
PUZ-ZM200/250YKA3	R32	B - C or B - D or B - E or C - D or C - E or D - E	≤ 8
PUZ-M100-140VKA3/YKA3	R32	B – C or C – D or B – D	≤ 8
PUZ-M200/250YDA	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

R32

The Mr Slim Multi-Split Indoor Unit Range

Ceiling Cassette

- PLA-ZM / PLA-M / PLA-SM



- SLZ-M



Wall Mounted

- PKA-M



Ceiling Concealed Ducted

- PEAD-M



- SEZ-M



Ceiling Suspended

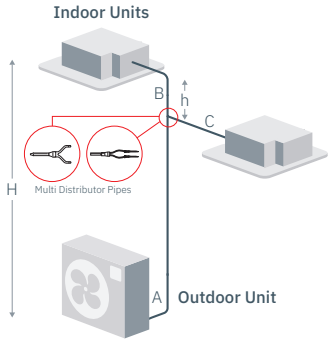
- PCA-M



- PCA-M-HA3

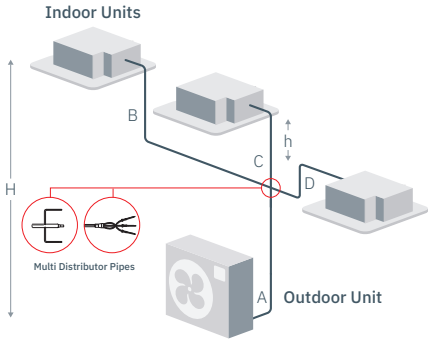


TWIN



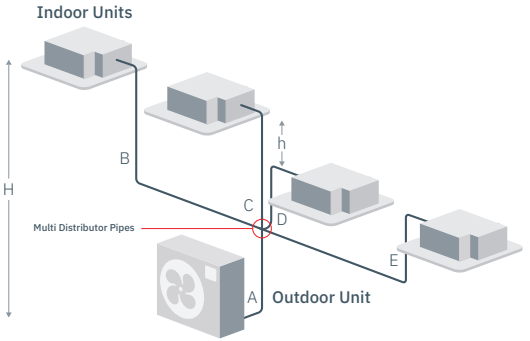
H = 30m h = 1m

TRIPLE



H = 30m h = 1m

QUADRUPLE



H = 30m h = 1m

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-ZM35EA3 / (1) PUZ-ZM71VHA3	R32 Power Inverter Cassette, Twin System, Single Phase
(2) PLA-ZM50EA3 / (1) PUZ-ZM100VDA2	R32 Power Inverter Cassette, Twin System, Single Phase
(2) PLA-ZM60EA3 / (1) PUZ-ZM125VDA2	R32 Power Inverter Cassette, Twin System, Single Phase
(2) PLA-ZM71EA3 / (1) PUZ-ZM140VDA2	R32 Power Inverter Cassette, Twin System, Single Phase
(2) PLA-ZM50EA3 / (1) PUZ-ZM100YDA2	R32 Power Inverter Cassette, Twin System, Three Phase
(2) PLA-ZM60EA3 / (1) PUZ-ZM125YDA2	R32 Power Inverter Cassette, Twin System, Three Phase
(2) PLA-ZM71EA3 / (1) PUZ-ZM140YDA2	R32 Power Inverter Cassette, Twin System, Three Phase
(2) PLA-ZM100EA3 / (1) PUZ-ZM200YKA3	R32 Power Inverter Cassette, Twin System, Three Phase
(2) PLA-ZM125EA3 / (1) PUZ-ZM250YKA3	R32 Power Inverter Cassette, Twin System, Three Phase
(2) SLZ-M35FA3 / (1) PUZ-ZM71VHA3	R32 Power Inverter Cassette, Twin System, Single Phase
(2) SLZ-M50FA3 / (1) PUZ-ZM100VDA2	R32 Power Inverter Cassette, Twin System, Single Phase
(2) SLZ-M60FA3 / (1) PUZ-ZM125VDA2	R32 Power Inverter Cassette, Twin System, Single Phase
(2) SLZ-M50FA3 / (1) PUZ-ZM100YDA2	R32 Power Inverter Cassette, Twin System, Three Phase
(2) SLZ-M60FA3 / (1) PUZ-ZM125YDA2	R32 Power Inverter Cassette, Twin System, Three Phase
(2) PLA-M50EA3 / (1) PUZ-M100VKA3	R32 Standard Inverter Cassette, Twin System, Single Phase
(2) PLA-M60EA3 / (1) PUZ-M125VKA3	R32 Standard Inverter Cassette, Twin System, Single Phase
(2) PLA-M71EA3 / (1) PUZ-M140VKA3	R32 Standard Inverter Cassette, Twin System, Single Phase
(2) PLA-M50EA3 / (1) PUZ-M100YKA3	R32 Standard Inverter Cassette, Twin System, Three Phase
(2) PLA-M60EA3 / (1) PUZ-M125YKA3	R32 Standard Inverter Cassette, Twin System, Three Phase
(2) PLA-M71EA3 / (1) PUZ-M140YKA3	R32 Standard Inverter Cassette, Twin System, Three Phase
(2) PLA-M100EA3 / (1) PUZ-M200YDA	R32 Standard Inverter Cassette, Twin System, Three Phase
(2) PLA-M125EA3 / (1) PUZ-M250YDA	R32 Standard Inverter Cassette, Twin System, Three Phase
(2) PLA-SM71EA3 / (1) PUZ-SM140VKA3	R32 Inverter Cassette, Twin System, Single Phase
(2) PLA-SM71EA3 / (1) PUZ-SM140YKA3	R32 Inverter Cassette, Twin System, Three Phase
(2) PKA-M35LA3 / (1) PUZ-ZM71VKA3	R32 Power Inverter Wall Mounted, Twin System, Single Phase
(2) PKA-M50LA3 / (1) PUZ-ZM100VDA2	R32 Power Inverter Wall Mounted, Twin System, Single Phase
(2) PKA-M60KA3 / (1) PUZ-ZM125VDA2	R32 Power Inverter Wall Mounted, Twin System, Single Phase
(2) PKA-M71KA3 / (1) PUZ-ZM140VDA2	R32 Power Inverter Wall Mounted, Twin System, Single Phase
(2) PKA-M50LA3 / (1) PUZ-ZM100YDA2	R32 Power Inverter Wall Mounted, Twin System, Three Phase
(2) PKA-M60KA3 / (1) PUZ-ZM125YDA2	R32 Power Inverter Wall Mounted, Twin System, Three Phase
(2) PKA-M71KA3 / (1) PUZ-ZM140YDA2	R32 Power Inverter Wall Mounted, Twin System, Three Phase
(2) PKA-M100KA3 / (1) PUZ-ZM200YKA3	R32 Power Inverter Wall Mounted, Twin System, Three Phase
(2) PKA-M50LA3 / (1) PUZ-M100VKA3	R32 Standard Inverter Wall Mounted, Twin System, Single Phase
(2) PKA-M60KA3 / (1) PUZ-M125VKA3	R32 Standard Inverter Wall Mounted, Twin System, Single Phase
(2) PKA-M71KA3 / (1) PUZ-M140VKA3	R32 Standard Inverter Wall Mounted, Twin System, Single Phase
(2) PKA-M50LA3 / (1) PUZ-M100YKA3	R32 Standard Inverter Wall Mounted, Twin System, Three Phase
(2) PKA-M60KA3 / (1) PUZ-M125YKA3	R32 Standard Inverter Wall Mounted, Twin System, Three Phase
(2) PKA-M71KA3 / (1) PUZ-M140YKA3	R32 Standard Inverter Wall Mounted, Twin System, Three Phase
(2) PKA-M100KA3 / (1) PUZ-M200YDA	R32 Standard Inverter Wall Mounted, Twin System, Three Phase

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

Inverter Heat Pump Units

R32

TWIN SYSTEMS	DESCRIPTION
(2) PEAD-M35JA3 / (1) PUZ-ZM71VHA3	R32 Power Inverter Ceiling Concealed Ducted, Twin System, Single Phase
(2) PEAD-M50JA3 / (1) PUZ-ZM100VDA2	R32 Power Inverter Ceiling Concealed Ducted, Twin System, Single Phase
(2) PEAD-M60JA3 / (1) PUZ-ZM125VDA2	R32 Power Inverter Ceiling Concealed Ducted, Twin System, Single Phase
(2) PEAD-M71JA3 / (1) PUZ-ZM140VDA2	R32 Power Inverter Ceiling Concealed Ducted, Twin System, Single Phase
(2) PEAD-M50JA3 / (1) PUZ-ZM100YDA2	R32 Power Inverter Ceiling Concealed Ducted, Twin System, Three Phase
(2) PEAD-M60JA3 / (1) PUZ-ZM125YDA2	R32 Power Inverter Ceiling Concealed Ducted, Twin System, Three Phase
(2) PEAD-M71JA3 / (1) PUZ-ZM140YDA2	R32 Power Inverter Ceiling Concealed Ducted, Twin System, Three Phase
(2) PEAD-M100JA3 / (1) PUZ-ZM200YKA3	R32 Power Inverter Ceiling Concealed Ducted, Twin System, Three Phase
(2) PEAD-M125JA3 / (1) PUZ-ZM250YKA3	R32 Power Inverter Ceiling Concealed Ducted, Twin System, Three Phase
(2) SEZ-M35DA3 / (1) PUZ-ZM71VHA3	R32 Power Inverter Ceiling Concealed Ducted, Twin System, Single Phase
(2) SEZ-M50DA3 / (1) PUZ-ZM100VDA2	R32 Power Inverter Ceiling Concealed Ducted, Twin System, Single Phase
(2) SEZ-M60DA3 / (1) PUZ-ZM125VDA2	R32 Power Inverter Ceiling Concealed Ducted, Twin System, Single Phase
(2) SEZ-M71DA3 / (1) PUZ-ZM140VDA2	R32 Power Inverter Ceiling Concealed Ducted, Twin System, Single Phase
(2) SEZ-M50DA3 / (1) PUZ-ZM100YDA2	R32 Power Inverter Ceiling Concealed Ducted, Twin System, Three Phase
(2) SEZ-M60DA3 / (1) PUZ-ZM125YDA2	R32 Power Inverter Ceiling Concealed Ducted, Twin System, Three Phase
(2) SEZ-M71DA3 / (1) PUZ-ZM140YDA2	R32 Power Inverter Ceiling Concealed Ducted, Twin System, Three Phase
(2) PEAD-M50JA3 / (1) PUZ-M100VKA3	R32 Standard Inverter Ceiling Concealed Ducted, Twin System, Single Phase
(2) PEAD-M60JA3 / (1) PUZ-M125VKA3	R32 Standard Inverter Ceiling Concealed Ducted, Twin System, Single Phase
(2) PEAD-M71JA3 / (1) PUZ-M140VKA3	R32 Standard Inverter Ceiling Concealed Ducted, Twin System, Single Phase
(2) PEAD-M50JA3 / (1) PUZ-M100YKA3	R32 Standard Inverter Ceiling Concealed Ducted, Twin System, Three Phase
(2) PEAD-M60JA3 / (1) PUZ-M125YKA3	R32 Standard Inverter Ceiling Concealed Ducted, Twin System, Three Phase
(2) PEAD-M71JA3 / (1) PUZ-M140YKA3	R32 Standard Inverter Ceiling Concealed Ducted, Twin System, Three Phase
(2) PEAD-M100JA3 / (1) PUZ-M200YDA	R32 Standard Inverter Ceiling Concealed Ducted, Twin System, Three Phase
(2) PEAD-M125JA3 / (1) PUZ-M250YDA	R32 Standard Inverter Ceiling Concealed Ducted, Twin System, Three Phase
(2) PCA-M50KA3 / (1) PUZ-ZM100VDA2	R32 Power Inverter Ceiling Suspended, Twin System, Single Phase
(2) PCA-M60KA3 / (1) PUZ-ZM125VDA2	R32 Power Inverter Ceiling Suspended, Twin System, Single Phase
(2) PCA-M71KA3 / (1) PUZ-ZM140VDA2	R32 Power Inverter Ceiling Suspended, Twin System, Single Phase
(2) PCA-M50KA3 / (1) PUZ-ZM100YDA2	R32 Power Inverter Ceiling Suspended, Twin System, Three Phase
(2) PCA-M60KA3 / (1) PUZ-ZM125YDA2	R32 Power Inverter Ceiling Suspended, Twin System, Three Phase
(2) PCA-M71KA3 / (1) PUZ-ZM140YDA2	R32 Power Inverter Ceiling Suspended, Twin System, Three Phase
(2) PCA-M100KA3 / (1) PUZ-ZM200YKA3	R32 Power Inverter Ceiling Suspended, Twin System, Three Phase
(2) PCA-M125KA3 / (1) PUZ-ZM250YKA3	R32 Power Inverter Ceiling Suspended, Twin System, Three Phase
(2) PCA-M50KA3 / (1) PUZ-M100VKA3	R32 Standard Inverter Ceiling Suspended, Twin System, Single Phase
(2) PCA-M60KA3 / (1) PUZ-M125VKA3	R32 Standard Inverter Ceiling Suspended, Twin System, Single Phase
(2) PCA-M71KA3 / (1) PUZ-M140VKA3	R32 Standard Inverter Ceiling Suspended, Twin System, Single Phase
(2) PCA-M50KA3 / (1) PUZ-M100YKA3	R32 Standard Inverter Ceiling Suspended, Twin System, Three Phase
(2) PCA-M60KA3 / (1) PUZ-M125YKA3	R32 Standard Inverter Ceiling Suspended, Twin System, Three Phase
(2) PCA-M71KA3 / (1) PUZ-M140YKA3	R32 Standard Inverter Ceiling Suspended, Twin System, Three Phase
(2) PCA-M100KA3 / (1) PUZ-M200YDA	R32 Standard Inverter Ceiling Suspended, Twin System, Three Phase
(2) PCA-M125KA3 / (1) PUZ-M250YDA	R32 Standard Inverter Ceiling Suspended, Twin System, Three Phase
(2) PCA-M71HA3 / (1) PUZ-ZM140VDA2	R32 Power Inverter Stainless Steel Ceiling Suspended, Twin System, Single Phase
(2) PCA-M71HA3 / (1) PUZ-ZM140YDA2	R32 Power Inverter Stainless Steel Ceiling Suspended, Twin System, Three Phase

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

Inverter Heat Pump Units

R32

TRIPLE SYSTEMS	DESCRIPTION
(3) PLA-ZM50EA3 / (1) PUZ-ZM140VDA2	R32 Power Inverter Cassette, Triple System, Single Phase
(3) PLA-ZM50EA3 / (1) PUZ-ZM140YDA2	R32 Power Inverter Cassette, Triple System, Three Phase
(3) PLA-ZM60EA3 / (1) PUZ-ZM200YKA3	R32 Power Inverter Cassette, Triple System, Three Phase
(3) PLA-ZM71EA3 / (1) PUZ-ZM250YKA3	R32 Power Inverter Cassette, Triple System, Three Phase
(3) SLZ-M35FA3 / (1) PUZ-ZM100VDA2	R32 Power Inverter Cassette, Triple System, Single Phase
(3) SLZ-M50FA3 / (1) PUZ-ZM125VDA2	R32 Power Inverter Cassette, Triple System, Single Phase
(3) SLZ-M50FA3/ (1) PUZ-ZM140VDA2	R32 Power Inverter Cassette, Triple System, Single Phase
(3) SLZ-M35FA3 / (1) PUZ-ZM100YDA2	R32 Power Inverter Cassette, Triple System, Three Phase
(3) SLZ-M50FA3 / (1) PUZ-ZM125YDA2	R32 Power Inverter Cassette, Triple System, Three Phase
(3) SLZ-M50FA3 / (1) PUZ-ZM140YDA2	R32 Power Inverter Cassette, Triple System, Three Phase
(3) PLA-M50EA3 / (1) PUZ-M140VKA3	R32 Standard Inverter Cassette, Triple System, Single Phase
(3) PLA-M50EA3 / (1) PUZ-M140YKA3	R32 Standard Inverter Cassette, Triple System, Three Phase
(3) PLA-M60EA3 / (1) PUZ-M200YDA	R32 Standard Inverter Cassette, Triple System, Three Phase
(3) PLA-M71EA3 / (1) PUZ-M250YDA	R32 Standard Inverter Cassette, Triple System, Three Phase
(3) PKA-M50LA3 / (1) PUZ-ZM140VDA2	R32 Power Inverter Wall Mounted, Triple System, Single Phase
(3) PKA-M50LA3 / (1) PUZ-ZM140YDA2	R32 Power Inverter Wall Mounted, Triple System, Three Phase
(3) PKA-M60KA3 / (1) PUZ-ZM200YKA3	R32 Power Inverter Wall Mounted, Triple System, Three Phase
(3) PKA-M71KA3 / (1) PUZ-ZM250YKA3	R32 Power Inverter Wall Mounted, Triple System, Three Phase
(3) PKA-M50LA3 / (1) PUZ-M140VKA3	R32 Standard Inverter Wall Mounted, Triple System, Single Phase
(3) PKA-M50LA3 / (1) PUZ-M140YKA3	R32 Standard Inverter Wall Mounted, Triple System, Three Phase
(3) PKA-M60KA3 / (1) PUZ-M200YDA	R32 Standard Inverter Wall Mounted, Triple System, Three Phase
(3) PKA-M71KA3 / (1) PUZ-M250YDA	R32 Standard Inverter Wall Mounted, Triple System, Three Phase
(3) PEAD-M50JA3 / (1) PUZ-ZM140VDA2	R32 Power Inverter Ceiling Concealed Ducted, Triple System, Single Phase
(3) PEAD-M50JA3 / (1) PUZ-ZM140YDA2	R32 Power Inverter Ceiling Concealed Ducted, Triple System, Three Phase
(3) PEAD-M60JA3 / (1) PUZ-ZM200YKA3	R32 Power Inverter Ceiling Concealed Ducted, Triple System, Three Phase
(3) PEAD-M71JA3 / (1) PUZ-ZM250YKA3	R32 Power Inverter Ceiling Concealed Ducted, Triple System, Three Phase
(3) SEZ-M35DA3 / (1) PUZ-ZM100VDA2	R32 Power Inverter Ceiling Concealed Ducted, Triple System, Single Phase
(3) SEZ-M50DA3 / (1) PUZ-ZM125VDA2	R32 Power Inverter Ceiling Concealed Ducted, Triple System, Single Phase
(3) SEZ-M50DA3 / (1) PUZ-ZM140VDA2	R32 Power Inverter Ceiling Concealed Ducted, Triple System, Single Phase
(3) SEZ-M35DA3 / (1) PUZ-ZM100YDA2	R32 Power Inverter Ceiling Concealed Ducted, Triple System, Three Phase
(3) SEZ-M50DA3 / (1) PUZ-ZM125YDA2	R32 Power Inverter Ceiling Concealed Ducted, Triple System, Three Phase
(3) SEZ-M50DA3 / (1) PUZ-ZM140YDA2	R32 Power Inverter Ceiling Concealed Ducted, Triple System, Three Phase
(3) PEAD-M50JA3 / (1) PUZ-M140VKA3	R32 Standard Inverter Ceiling Concealed Ducted, Triple System, Single Phase
(3) PEAD-M50JA3 / (1) PUZ-M140YKA3	R32 Standard Inverter Ceiling Concealed Ducted, Triple System, Three Phase
(3) PEAD-M60JA3 / (1) PUZ-M200YDA	R32 Standard Inverter Ceiling Concealed Ducted, Triple System, Three Phase
(3) PEAD-M71JA3 / (1) PUZ-M250YDA	R32 Standard Inverter Ceiling Concealed Ducted, Triple System, Three Phase
(3) PCA-M50KA3 / (1) PUZ-ZM140VDA2	R32 Power Inverter Ceiling Suspended, Triple System, Single Phase
(3) PCA-M50KA3 / (1) PUZ-ZM140YDA2	R32 Power Inverter Ceiling Suspended, Triple System, Three Phase
(3) PCA-M60KA3 / (1) PUZ-ZM200YKA3	R32 Power Inverter Ceiling Suspended, Triple System, Three Phase
(3) PCA-M71KA3 / (1) PUZ-ZM250YKA3	R32 Power Inverter Ceiling Suspended, Triple System, Three Phase
(3) PCA-M50KA3 / (1) PUZ-M140VKA3	R32 Standard Inverter Ceiling Suspended, Triple System, Single Phase
(3) PCA-M50KA3 / (1) PUZ-M140YKA3	R32 Standard Inverter Ceiling Suspended, Triple System, Three Phase
(3) PCA-M60KA3 / (1) PUZ-M200YDA	R32 Standard Inverter Ceiling Suspended, Triple System, Three Phase
(3) PCA-M71KA3 / (1) PUZ-M250YDA	R32 Standard Inverter Ceiling Suspended, Triple System, Three Phase
(3) PCA-M71HA3 / (1) PUZ-ZM250YKA3	R32 Power Inverter Stainless Steel Ceiling Suspended, Triple System, Three Phase

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

Inverter Heat Pump Units

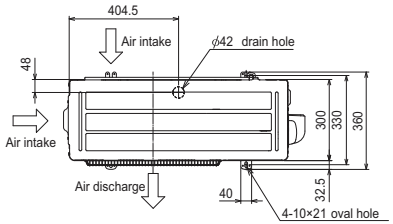
QUADRUPLE SYSTEMS	DESCRIPTION
(4) PLA-ZM50EA3 / (1) PUZ-ZM200YKA3	R32 Power Inverter Cassette, Quadruple System, Three phase
(4) PLA-ZM60EA3 / (1) PUZ-ZM250YKA3	R32 Power Inverter Cassette, Quadruple System, Three phase
(4) SLZ-M35FA3 / (1) PUZ-ZM125VDA2	R32 Power Inverter Cassette, Quadruple System, Single phase
(4) SLZ-M35FA3 / (1) PUZ-ZM140VDA2	R32 Power Inverter Cassette, Quadruple System, Single phase
(4) SLZ-M35FA3 / (1) PUZ-ZM125YDA2	R32 Power Inverter Cassette, Quadruple System, Three phase
(4) SLZ-M35FA3 / (1) PUZ-ZM140YDA2	R32 Power Inverter Cassette, Quadruple System, Three phase
(4) PLA-M50EA3 / (1) PUZ-M200YDA	R32 Standard Inverter Cassette, Quadruple System, Three phase
(4) PLA-M60EA3 / (1) PUZ-M250YDA	R32 Standard Inverter Cassette, Quadruple System, Three phase
(4) PKA-M50LA3 / (1) PUZ-ZM200YKA3	R32 Power Inverter Wall Mounted, Quadruple System, Three Phase
(4) PKA-M60KA3 / (1) PUZ-ZM250YKA3	R32 Power Inverter Wall Mounted, Quadruple System, Three Phase
(4) PKA-M50LA3 / (1) PUZ-M200YDA	R32 Standard Inverter Wall Mounted, Quadruple System, Three Phase
(4) PKA-M60KA3 / (1) PUZ-M250YDA	R32 Standard Inverter Wall Mounted, Quadruple System, Three Phase
(4) PEAD-M50JA3 / (1) PUZ-ZM200YKA3	R32 Power Inverter Ceiling Concealed Ducted, Quadruple System, Three Phase
(4) PEAD-M60JA3 / (1) PUZ-ZM250YKA3	R32 Power Inverter Ceiling Concealed Ducted, Quadruple System, Three Phase
(4) SEZ-M35DA3 / (1) PUZ-ZM125VDA2	R32 Power Inverter Ceiling Concealed Ducted, Quadruple System, Single Phase
(4) SEZ-M35DA3 / (1) PUZ-ZM140VDA2	R32 Power Inverter Ceiling Concealed Ducted, Quadruple System, Single Phase
(4) SEZ-M35DA3 / (1) PUZ-ZM125YDA2	R32 Power Inverter Ceiling Concealed Ducted, Quadruple System, Three Phase
(4) SEZ-M35DA3 / (1) PUZ-ZM140YDA2	R32 Power Inverter Ceiling Concealed Ducted, Quadruple System, Three Phase
(4) PEAD-M50JA3 / (1) PUZ-M200YDA	R32 Standard Inverter Ceiling Concealed Ducted, Quadruple System, Three Phase
(4) PEAD-M60JA3 / (1) PUZ-M250YDA	R32 Standard Inverter Ceiling Concealed Ducted, Quadruple System, Three Phase
(4) PCA-M50KA3 / (1) PUZ-ZM200YKA3	R32 Power Inverter Ceiling Suspended, Quadruple System, Three Phase
(4) PCA-M60KA3 / (1) PUZ-ZM250YKA3	R32 Power Inverter Ceiling Suspended, Quadruple System, Three Phase
(4) PCA-M50KA3 / (1) PUZ-M200YDA	R32 Standard Inverter Ceiling Suspended, Quadruple System, Three Phase
(4) PCA-M60KA3 / (1) PUZ-M250YDA	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-50WR3-E	R32 Multi distribution pipe twin units - 50:50 - sizes 200/250
MSDT-111R4-E	R32 Multi distribution pipe triple units - 33:33:33 - sizes 100/125/140/200/250
MSDF-1111R3-E	R32 Multi distribution pipe quadruple units - 25:25:25:25 - sizes 125/140/200/250

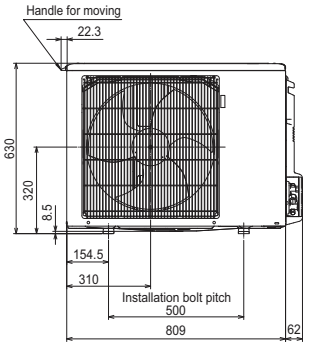
Power Inverter Outdoor Units

Product Dimensions PUZ-ZM35/50VKA3

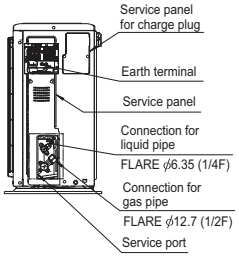
Upper View



Front View

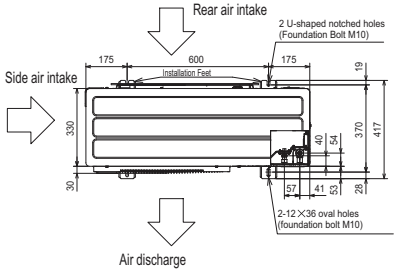


Side View

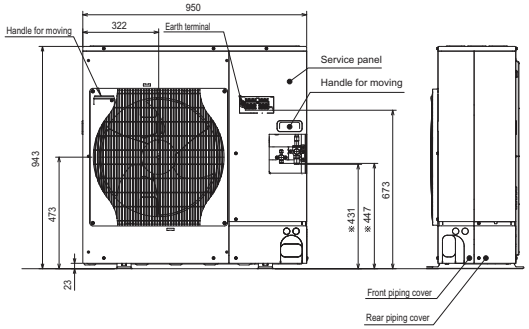


Product Dimensions PUZ-ZM60/71VHA3

Upper View



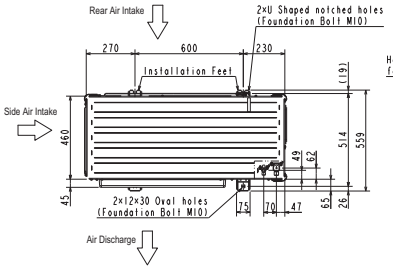
Front View



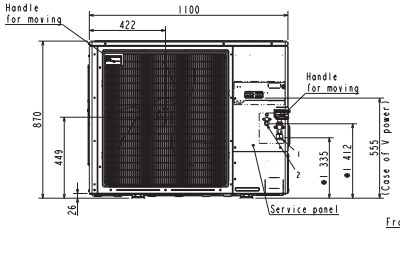
Side View

Product Dimensions PUZ-ZM100/125/140VDA2, PUZ-ZM100/125/140YDA2

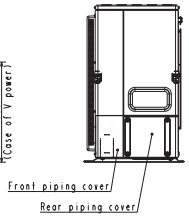
Upper View



Front View

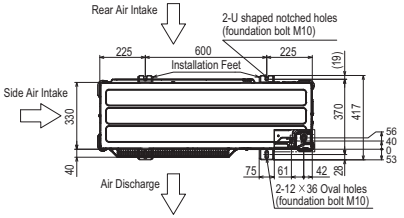


Side View



Product Dimensions PUZ-ZM200/250YKA3

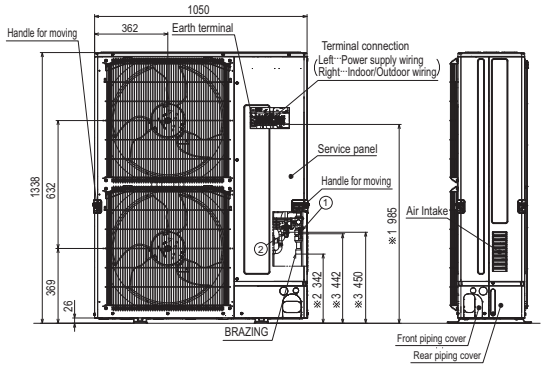
Upper View



Model	① Refrigerant GAS pipe connection	② Refrigerant LIQUID pipe connection
PUZ-ZM200YKA3	ø28.58 (1 1/8F)	ø9.52 (3/8F)
PUZ-ZM250YKA3	ø28.58 (1 1/8F)	ø12.7 (1/2F)

※1···Indication of Terminal connection location.
※2···Refrigerant GAS pipe connection (BRAZING) O.Dø25.4.
※3···Indication of STOP VALVE connection location.

Front View

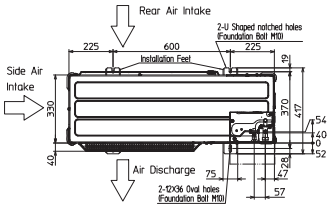


Side View

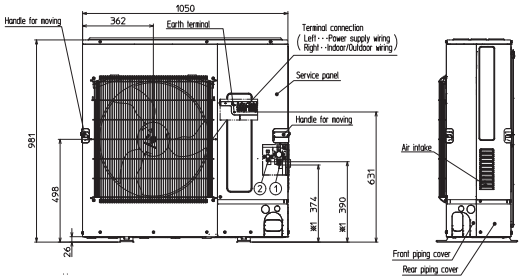
Standard Inverter / Inverter Outdoor Units

Product Dimensions — PUZ-M100/125/140VKA3, PUZ-M100/125/140YKA3, PUZ-SM100/125/140VKA3, PUZ-SM100/125/140YKA3

Upper View



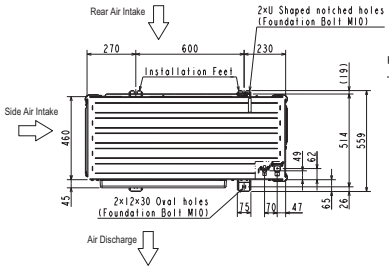
Front View



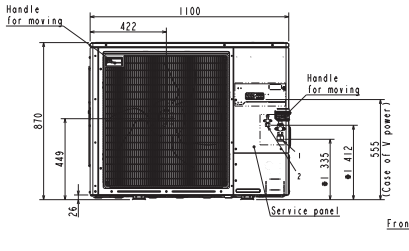
Side View

Product Dimensions — PUZ-M200/250YDA

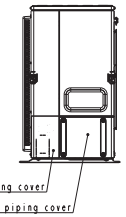
Upper View



Front View

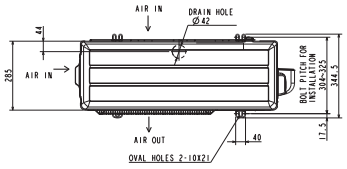


Side View

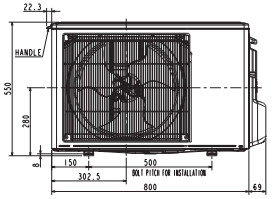


Product Dimensions — SUZ-M25/35VA2

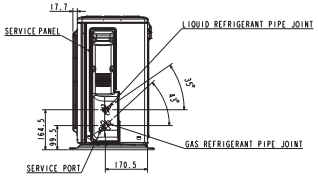
Upper View



Front View

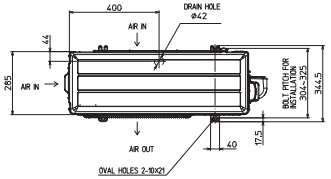


Side View

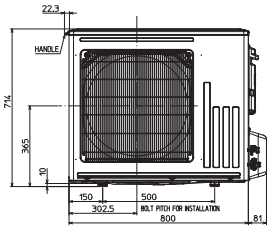


Product Dimensions — SUZ-M50VA2

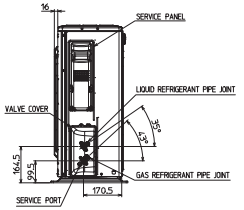
Upper View



Front View

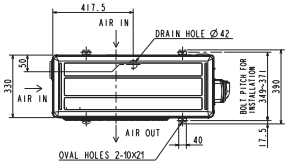


Side View

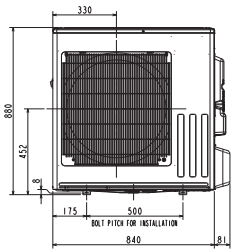


Product Dimensions — SUZ-M60VA2, SUZ-M71VA2, SUZ-SM71VA2

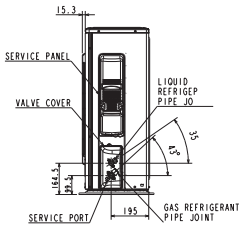
Upper View



Front View



Side View



Mr Slim Accessories / Optional Extras

4-WAY BLOW CASSETTE INDOOR UNITS	DESCRIPTION
SLP-2FA	Grille for SLZ-M
SLP-2FA-B	Black grille (Satin finish) for SLZ-M
SLP-2FAE	3D i-see sensor grille for SLZ-M
PLP-6EA	Grille for PLA-ZM / PLA-M / PLA-SM
PLP-6EAB	Black grille (Matt 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-ZM35-140EA3 / PLA-M100-140EA3 (must be used with either PAR-42MAAB or PAR-SL103A-E)
PAC-SK36HK-E	Insulation kit (14°C cooling) for PLA-ZM35-140EA3 / PLA-M100-140EA3
PAC-SH59KF-E	High efficiency filter for PLA-ZM / PLA-M / PLA-SM (must be used with PAC-SJ41TM-E)
PAR-SL103A-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 INDOOR UNITS	DESCRIPTION
PAR-FL32MA	Wireless remote controller
PAR-SL103A-E	Wireless remote controller
MAC-100FT-E	Plasma Quad Connect air purifying device for PKA-M

CEILING CONCEALED DUCTED INDOOR 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 INDOOR UNITS	DESCRIPTION
PAR-SL95B-E	Wireless remote controller and adaptor
PAC-SG38KF	Oil mist filter for PCA-M71HA3 (12 pack)

Mr Slim Accessories / Optional Extras

OUTDOOR UNITS	DESCRIPTION
PAC-SJ08DS-E	Drain socket set for PUZ-ZM35-50
PAC-SG61DS-E	Drain socket set for PUZ-ZM60-71 / PUZ-ZM200-250 / PUZ-(S)M100-140
PAC-SL14DS-E	Drain socket set for PUZ-ZM100-140 / PUZ-M200-250
PAC-SJ07SG-E	Air outlet guide for PUZ-ZM35-50
PAC-SG59SG-E	Air outlet guide for PUZ-ZM60-71
PAC-SL12SG-E	Air outlet guide for PUZ-ZM100-140 / PUZ-M200-250
PAC-SH96SG-E	Air outlet guide for PUZ-ZM200-250 / PUZ-(S)M100-140
PAC-SJ06AG-E	Air protect guide (allows cooling at -15ºC) for PUZ-ZM35-50
PAC-SH63AG-E	Air protect guide (allows cooling at -15ºC) for PUZ-ZM60-71
PAC-SL13AG-E	Air protect guide (allows cooling at -15ºC) for PUZ-ZM100-140 / PUZ-M200-250
PAC-SH95AG-E	Air protect guide (allows cooling at -15ºC) for PUZ-ZM200-250 / PUZ-(S)M100-140
MAC-881SG	Air outlet guide for SUZ-M35
MAC-882SG	Air outlet guide for SUZ-M50
MAC-890SG-E	Air outlet guide for SUZ-M60-71 / SUZ-SM71

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-42MAAB / 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-42MAAB) - when SUZ or MXZ
PAC-SE42TS-E	Remote sensor
MAC-597IF-E	Interface for Wi-Fi connection to MELCloud Home service
PAC-SK15MA-E	M-NET adaptor for PUZ-ZM35-50
PAC-SJ95MA-E	M-NET adaptor for PUZ-ZM60-71 / PUZ-ZM200-250 / PUZ-(S)M100-140
PAC-SL16MA-E	M-NET adaptor for PUZ-ZM100-140 / PUZ-M200-250
PAR-CT01MAA-SB	Touch screen wired remote controller
PAR-CT01MAA-PB	Touch screen wired remote controller (Premium Finish)
PAR-42MAAB	Standard white wired remote controller
PAR-42MAAPB	Standard black 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-E	Power supply terminal kit for PLA-ZM and PLA-M
PAC-SK38HR-E	Power supply terminal kit for PKA-M35-50LA3
PAC-SG94HR-E	Power supply terminal kit for PKA-M60-100KA3
PAC-SG96HR-E	Power supply terminal kit for PCA-M / PSA-M
PAC-SG97HR-E	Power supply terminal kit for PEAD-M / PCA-M-HA3

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-SM R32 Inverter Heat Pump Multi-Split Units (Single Fan)	**1.4.12**
PUMY-M R32 Inverter Heat Pump Multi-Split Unit (Twin Fan)	**1.4.14**
PUMY-SP R410A Inverter Heat Pump Multi-Split Units (Single Fan)	**1.4.16**
PUMY-P R410A Inverter Heat Pump Multi-Split Units (Twin Fan)	**1.4.18**
Multi-Split Accessories / Optional Extras	**1.4.20**

The Flexible & Efficient **Multi-Split Range**

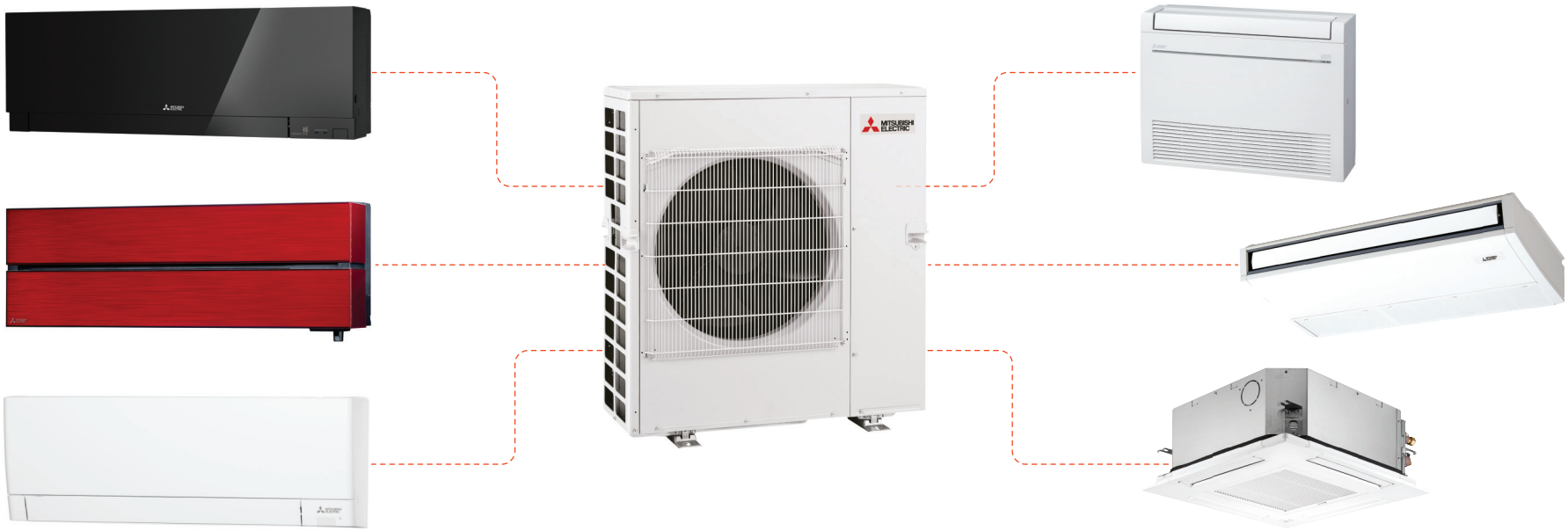
R32

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 CO_2 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-2F33VF5
- 2 indoor units
- Nominal cooling capacity 3.3kW

MXZ-2F42VF5
- 2 indoor units
- Nominal cooling capacity 4.2kW

MXZ-2F53VF5
- 2 indoor units
- Nominal cooling capacity 5.3kW

R32



MXZ-3F54VF5
- 2-3 indoor units
- Nominal cooling capacity 5.4kW

MXZ-3F68VF5
- 2-3 indoor units
- Nominal cooling capacity 6.8kW

MXZ-4F72VF5
- 2-4 indoor units
- Nominal cooling capacity 7.2kW

R32



MXZ-4F83VF3
- 2-4 indoor units
- Nominal cooling capacity 8.3kW

MXZ-5F102VF3
- 2-5 indoor units
- Nominal cooling capacity 10.2kW

R32



MXZ-6F120VF3
- 2-6 indoor units
- Nominal cooling capacity 12.0kW

R32



MXZ-2HA40VF3
- 2 MSZ-HR indoor units
- Nominal cooling capacity 4.0kW

MXZ-2HA50VF3
- 2 MSZ-HR indoor units
- Nominal cooling capacity 5.0kW

R32



MXZ-3HA50VF3
- 2-3 MSZ-HR indoor units
- Nominal cooling capacity 5.0kW

R32



PUMY-SM112-140VKM2/YKM2
- 2-11 indoor units
- Nominal cooling capacity 12.5 - 15.5kW

R32



PUMY-M200YKM
- 2-11 indoor units
- Nominal cooling capacity 22.4kW

R410A



PUMY-SP112-140VKM3/YKM3
- 2-11 indoor units
- Nominal cooling capacity 12.5 - 15.5kW

R410A



PUMY-P112-140VKM7/YKM7 / PUMY-P200YKM4
- 2-11 indoor units
- Nominal cooling capacity 12.5 - 22.4kW

R410A



PUMY-P250-300YBM3
- 2-30 indoor units
- Nominal cooling capacity 28.0 - 33.5kW

The Flexible & Efficient **Multi-Split Range**

Indoor Units

Wall Mounted

MSZ-LN



MSZ-EF



MSZ-AY / MSZ-AP







MSZ-HR





Floor Mounted

MFZ-KT



SFZ-M



Ceiling Cassette

SLZ-M

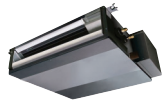


PLA-M



Ceiling Concealed Ducted

SEZ-M



PEAD-M



Ceiling Suspended

PCA-M



Compatibility Table

Model	MXZ-2F33VF5	MXZ-2F42VF5	MXZ-2F53VF5	MXZ-3F54VF5	MXZ-3F68VF5	MXZ-4F72VF5	MXZ-4F83VF3	MXZ-5F102VF3	MXZ-6F120VF3	MXZ-2HA40VF3	MXZ-2HA50VF3	MXZ-3HA50VF3	PUMY-SM	PUMY-M	PUMY-SP		PUMY-P		PUHY-P / PURY-EP/P
													Branch Box	Branch Box	Branch Box	LEV Kit	Branch Box	LEV Kit	LEV Kit
Wall Mounted																			
MSZ-LN18VG3	●	●	●	●	●	●	●	●	●										●
MSZ-LN25VG3	●	●	●	●	●	●	●	●	●				●	●	●	●	●	●	●
MSZ-LN35VG3		●	●	●	●	●	●	●	●				●	●	●	●	●	●	●
MSZ-LN50VG3				●	●	●	●	●	●				●	●	●	●	●	●	●
MSZ-EF18VGK2	●	●	●	●	●	●	●	●	●				●	●	●	●	●	●	
MSZ-EF22VGK2	●	●	●	●	●	●	●	●	●				●	●	●	●	●	●	
MSZ-EF25VGK2	●	●	●	●	●	●	●	●	●				●	●	●	●	●	●	
MSZ-EF35VGK2		●	●	●	●	●	●	●	●				●	●	●	●	●	●	
MSZ-EF50VGK2			●	●	●	●	●	●	●				●	●	●	●	●	●	
MSZ-AY15VGK2	●	●	●	●	●	●	●	●	●						●	●	●	●	●
MSZ-AY20VGK2	●	●	●	●	●	●	●	●	●						●	●	●	●	●
MSZ-AY25VGK2	●	●	●	●	●	●	●	●	●				●	●	●	●	●	●	
MSZ-AY35VGK2		●	●	●	●	●	●	●	●				●	●	●	●	●	●	
MSZ-AY42VGK2			●	●	●	●	●	●	●				●	●	●	●	●	●	
MSZ-AY50VGK2			●	●	●	●	●	●	●				●	●	●	●	●	●	
MSZ-AP60VGK2					●	●	●	●	●										
MSZ-AP71VGK2							●	●	●										
MSZ-HR25VFK2										●	●	●							
MSZ-HR35VFK2										●	●	●							
MSZ-HR50VFK2												●							
Floor Mounted																			
MFZ-KT25VGK	●	●	●	●	●	●	●	●	●						●	●	●	●	
MFZ-KT35VGK		●	●	●	●	●	●	●	●						●	●	●	●	
MFZ-KT50VGK				●	●	●	●	●	●						●	●	●	●	
SFZ-M25VA2	●	●	●	●	●	●	●	●	●										
SFZ-M35VA2		●	●	●	●	●	●	●	●										
SFZ-M50VA2				●	●	●	●	●	●										
SFZ-M60VA2						●	●	●	●										
SFZ-M71VA2							●	●	●										
Ceiling Cassette																			
SLZ-M15FA3	●	●	●	●	●	●	●	●	●				●	●	●		●		
SLZ-M25FA3	●	●	●	●	●	●	●	●	●				●	●	●		●		
SLZ-M35FA3		●	●	●	●	●	●	●	●				●	●	●		●		
SLZ-M50FA3				●	●	●	●	●	●				●	●	●		●		
PLA-M35EA3													●	●	●		●		
PLA-M50EA3													●	●	●		●		
PLA-M60EA3													●	●	●		●		
PLA-M71EA3													●	●	●		●		
PLA-M100EA3													●	●	●		●		
Ceiling Concealed Ducted																			
SEZ-M25DA3	●	●	●	●	●	●	●	●	●				●		●		●		
SEZ-M35DA3		●	●	●	●	●	●	●	●				●	●	●		●		
SEZ-M50DA3				●	●	●	●	●	●				●	●	●		●		
SEZ-M60DA3					●	●	●	●	●				●	●	●		●		
SEZ-M71DA3							●	●	●				●	●	●		●		
PEAD-M35JA3		●	●	●	●	●	●	●	●										
PEAD-M50JA3				●	●	●	●	●	●				●	●	●		●		
PEAD-M60JA3							●	●	●				●	●	●		●		
PEAD-M71JA3							●	●	●				●	●	●		●		
PEAD-M100JA3													●	●	●		●		
Ceiling Suspended																			
PCA-M50KA3					●	●							●	●	●		●		
PCA-M60KA3					●	●							●	●	●		●		
PCA-M71KA3													●	●	●		●		
PCA-M100KA3													●	●	●		●		

Note: For MXZ Multi-Split capacity combination tables please refer to databook. PUMY-P250/300YBM3 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

R32



MXZ-F - OUTDOOR UNITS		MXZ-2F33VF5	MXZ-2F42VF5	MXZ-2F53VF5	MXZ-3F54VF5	MXZ-3F68VF5	MXZ-4F72VF5	MXZ-4F83VF3	MXZ-5F102VF3	MXZ-6F120VF3
NUMBER OF CONNECTABLE INDOOR UNITS		2	2	2	2 - 3	2 - 3	2 - 4	2 - 4	2 - 5	2 - 6
CAPACITY (kW)	Heating (nominal)	4.0 (1.0-4.1)	4.5 (1.0-4.8)	6.4 (1.1-7.0)	7.0 (2.6-9.0)	8.6 (2.6-10.6)	8.6 (3.4-10.7)	9.3 (3.4-11.6)	10.5 (4.1-14.0)	14.0 (3.5-16.5)
	Cooling (nominal)	3.3 (1.1-3.8)	4.2 (1.1-4.4)	5.3 (1.1-5.6)	5.4 (2.9-6.8)	6.8 (2.9-8.4)	7.2 (3.7-8.8)	8.3 (3.7-9.2)	10.2 (3.9-11.0)	12.0 (3.5-13.5)
	Heating (UK)	3.32 (0.83-3.40)	3.74 (0.84-3.99)	5.38 (0.92 - 5.88)	5.81 (2.16-7.47)	7.14 (2.16-8.80)	7.14 (2.82-8.89)	7.8 (2.82-9.63)	8.7 (3.40-11.63)	11.6 (2.90-13.71)
	Cooling (UK)	3.23 (1.07-3.72)	4.12 (1.08-4.32)	5.30 (1.10-5.60)	5.3 (2.85-6.67)	6.66 (2.84-8.23)	7.0 (3.59-8.56)	8.2 (3.67-9.12)	10.1 (3.86-10.90)	11.9 (3.47-13.39)
COP / EER (nominal)*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 (ηsh) / SEER (ηsc) (BS EN14825)		4.00 / 6.10	4.60 / 8.69	4.6 / 8.6	4.61 / 8.52	4.12 / 7.96	4.07 / 8.13	4.72 (185.8%) / 8.51 (337.4%)	4.65 (183%) / 8.21 (325.4%)	4.0 (157%) / 6.8 (269%)
ErP ENERGY EFFICIENCY CLASS	Heating/Cooling	A+ / A++	A++ / A+++	A++ / A+++	A++ / A+++	A+ / A++	A+ / A++	A++ / A+++	A++ / A++	A+ / A++
MAX AIRFLOW (m^3/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 (10 if OU higher than IU)	15 (10 if OU higher than IU)	15	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-M25DA3 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-2F33VF5, MXZ-2F42VF5, MXZ-2F53VF5

MAC-856SG

Air outlet guide for MXZ-3F54VF5, MXZ-3F68VF5, MXZ-4F72VF5

PAC-SH96SG-E

Air outlet guide for MXZ-4F83VF3, MXZ-5F102VF3, MXZ-6F120VF3

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-42MAAB / PAR-CT01MAA), on/off input and run/fault output

MAC-497IF-E

Interface for MA remote controller (PAR-42MAAB / PAR-CT01MAA)

MAC-597IF-E

Interface for Wi-Fi connection to MELCloud Home service

PAR-42MAAB/MAAPB

Standard wired remote controller (MAAPB = Black Finish)

MELCOBEMS MINI (A1M+)

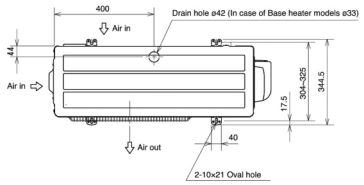
Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

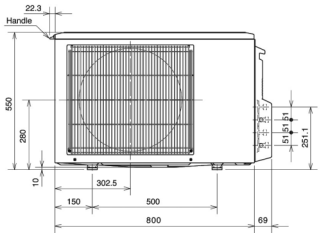
Retail control and input / output interface

Product Dimensions MXZ-2F33VF5, MXZ-2F42VF5, MXZ-2F53VF5

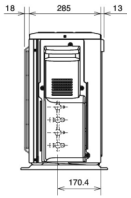
Upper View



Front View

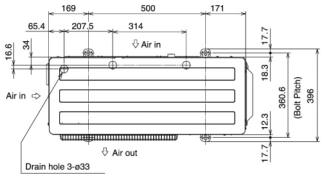


Side View

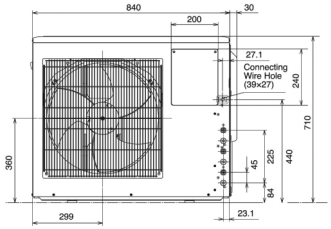


Product Dimensions MXZ-3F54VF5, MXZ-3F68VF5, MXZ-4F72VF5

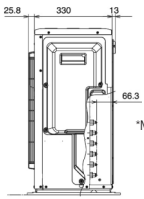
Upper View



Front View



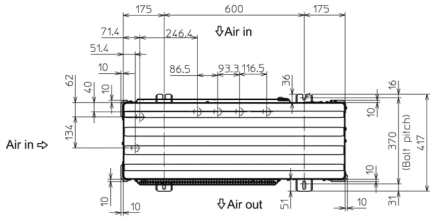
Side View



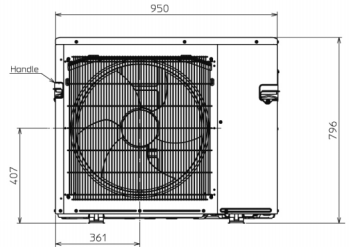
*MXZ-4F72VF5 has 4 pipe connections

Product Dimensions MXZ-4F83VF3, MXZ-5F102VF3

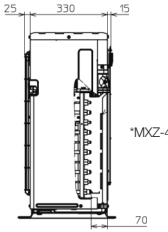
Upper View



Front View



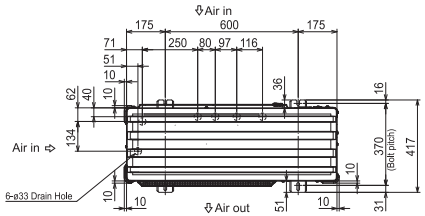
Side View



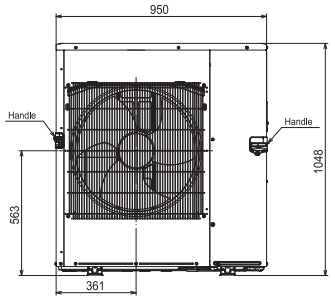
*MXZ-4F83V3 has 4 pipe connections

Product Dimensions MXZ-6F120VF3

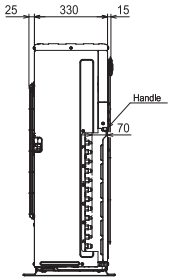
Upper View



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-2HA40VF3	MXZ-2HA50VF3	MXZ-3HA50VF3
NUMBER OF CONNECTABLE INDOOR UNITS		2	2	2 - 3
CAPACITY (kW)	Heating (nominal)	4.3 (1.0 - 4.7)	6.0 (1.0 - 6.4)	6.0 (2.6 - 7.5)
	Cooling (nominal)	4.0 (1.1 - 4.3)	5.0 (1.1 - 5.4)	5.0 (2.9 - 6.5)
	Heating (UK)	3.61 (0.84 - 3.95)	5.04 (0.84 - 5.38)	5.04 (2.18 - 6.30)
	Cooling (UK)	4.00 (1.10 - 4.30)	5.00 (1.10 - 5.40)	4.50 (2.61 - 5.85)
COP / EER (nominal)		4.73 / 3.81	3.90 / 3.29	4.62 / 3.97
SCOP (ηsh) / SEER (ηsc) (BS EN14825)		4.30 / 8.12	4.30 / 7.78	4.02 / 7.26
ErP ENERGY EFFICIENCY CLASS	Heating/Cooling	A+ / A++	A+ / A++	A+ / A++
MAX AIRFLOW (m^3/min)	Heating/Cooling	33.5 / 28.4	34.7 / 32.7	29.1 / 31.0
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	50 / 44	51 / 47	50 / 46
SOUND POWER LEVEL (dBA)	Cooling	59	64	61
DIMENSIONS (mm)	Width x Depth x Height	800 x 285 x 550	800 x 285 x 550	840 x 330 x 710
WEIGHT (kg)		37	37	57
ELECTRICAL SUPPLY		220-240V, 50Hz	220-240V, 50Hz	220-240V, 50Hz
PHASE		Single	Single	Single
POWER INPUT (kW)	Heating/Cooling (nominal)	0.91 / 1.05	1.54 / 1.52	1.30 / 1.26
	Heating/Cooling (UK)	0.82 / 0.90	1.39 / 1.31	1.17 / 1.08
STARTING CURRENT (A)		7.6	7.6	6.7
RUNNING CURRENT (A)	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-2HA40VF3, MXZ-2HA50VF3

MAC-856SG

Air outlet guide for MXZ-3HA50VF3

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-42MAAB / PAR-CT01MAA), on/off input and run/fault output

MAC-497IF-E

Interface for MA remote controller (PAR-42MAAB / PAR-CT01MAA)

MAC-597IF-E

Interface for Wi-Fi connection to MELCloud Home service

PAR-42MAAB/MAAPB

Standard wired remote controller (MAAPB = Black Finish)

MELCOBEMS MINI (A1M+)

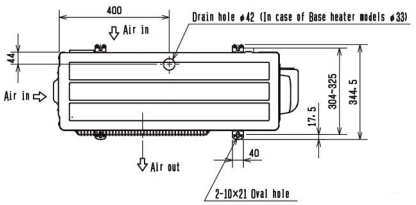
Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

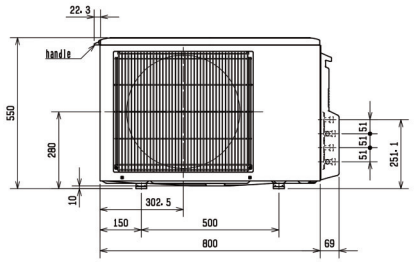
Retail control and input / output interface

Product Dimensions MXZ-2HA40/50VF3

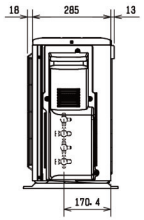
Upper View



Front View

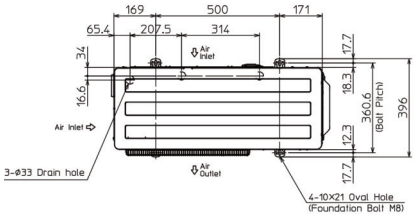


Side View

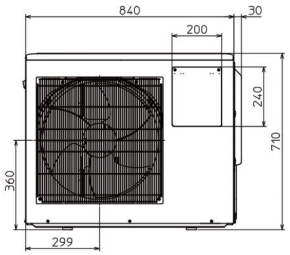


Product Dimensions MXZ-3HA50VF3

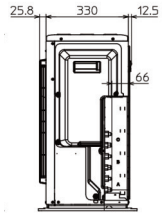
Upper View



Front View



Side View



PUMY-SM R32 Inverter Heat Pump

(12.5-15.5kW)

Multi-Split Units



The **PUMY-SM** Inverter Heat Pump system allows up to 11 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)
- 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
- Plug & Play Safety measure - shut-off valve integrated into outdoor unit, with option of using low level leak detectors PAC-SL72SA-E in the occupied spaces

R32

PUMY-SM - OUTDOOR UNITS		PUMY-SM112VKM2	[3] PUMY-SM112YKM2	PUMY-SM125VKM2	[3] PUMY-SM125YKM2	PUMY-SM140VKM2	[3] PUMY-SM140YKM2
NUMBER OF CONNECTABLE INDOOR UNITS	Branch box / Mixed*1	8 / 11	8 / 11	8 / 11	8 / 11	8 / 11	8 / 11
CAPACITY (kW)	Heating (nominal max)	14.0	14.0	16.0	16.0	17.5	17.5
	Cooling (nominal)	12.5	12.5	14.0	14.0	15.5	15.5
	Heating (UK)	14.0	14.0	16.0	16.0	17.5	17.5
	Cooling (UK)	9.8	9.8	11.0	11.0	12.2	12.2
COP / EER (nominal max)		4.20 / 3.76	4.20 / 3.76	4.28 / 3.34	4.28 / 3.34	4.21 / 3.22	4.21 / 3.22
MAX AIRFLOW (m^3/min)		77	77	83	83	83	83
SOUND PRESSURE LEVEL (dBA)	Cooling	52	52	53	53	54	54
SOUND POWER LEVEL (dBA)	Cooling	72	72	73	73	74	74
DIMENSIONS (mm)	Width x Depth x Height	1050 x 330+40 x 981	1050 x 330+40 x 981	1050 x 330+40 x 981	1050 x 330+40 x 981	1050 x 330+40 x 981	1050 x 330+40 x 981
WEIGHT (kg)		95	97	95	97	95	97
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
POWER INPUT (kW)	Heating (max) / Cooling (nominal)	3.33 / 3.32	3.33 / 3.32	3.73 / 4.19	3.73 / 4.19	4.15 / 4.81	4.15 / 4.81
	Heating (UK) / Cooling (UK)	4.27 / 1.55	4.27 / 1.55	4.78 / 1.95	4.78 / 1.95	5.32 / 2.24	5.32 / 2.24
STARTING CURRENT (A)		8	4	8	4	8	4
RUNNING CURRENT (A)	Heating / Cooling [MAX]	14.77 / 14.73 [30.5]	5.06 / 5.04 [13.0]	16.55 / 18.59 [30.5]	5.67 / 6.37 [13.0]	18.41 / 21.47 [30.5]	6.31 / 7.35 [13.0]
FUSE RATING (BS88) - HRC (A)		1 x 32	1 x 16	1 x 32	1 x 16	1 x 32	1 x 16
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")
TOTAL PIPING LENGTH (M)	Branch box / Mixed*1	120	120	120	120	120	120
FURTHEST PIPING LENGTH (M)	(with no branch boxes)	80 (70)	80 (70)	80 (70)	80 (70)	80 (70)	80 (70)
BETWEEN BRANCH BOXES AND OUTDOOR UNIT - LENGTH (m)		55	55	55	55	55	55
BETWEEN BRANCH BOXES AND INDOOR UNIT - LENGTH (m)		25	25	25	25	25	25
BETWEEN INDOOR AND OUTDOOR UNIT - HEIGHT (m)		50m max*2	50m max*2	50m max*2	50m max*2	50m max*2	50m max*2
BETWEEN INDOOR AND INDOOR UNITS - HEIGHT (m)		12	12	12	12	12	12
CHARGE REFRIGERANT (kg) / CO_2 EQUIVALENT (T) - R32 (GWP 675)		3.0 / 2.0	3.0 / 2.0	3.0 / 2.0	3.0 / 2.0	3.0 / 2.0	3.0 / 2.0
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (T) - R32 (GWP 675)		4.5 / 3.0	4.5 / 3.0	4.5 / 3.0	4.5 / 3.0	4.5 / 3.0	4.5 / 3.0

[3] Three Phase

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

PAC-MMK - BRANCH BOX		PAC-MMK40BCB
NUMBER OF CONNECTABLE INDOOR UNITS		4
COMPATIBLE INDOOR UNITS		M Series, Mr Slim
WEIGHT (kg)		10.4
DIMENSIONS (mm)	Width x Depth x Height	450 x 372 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.

Accessories

Outdoor Units

CMY-Y62-G-E

Branch pipe (2 branches) for PUMY-SM

PAC-SL72SA-E

Sensor & Alarm kit for PUMY-SM

PAC-SL73IFL-E

Power Interface for PUMY-SM

PAC-SH96SG-E

Air outlet guide for PUMY-SM

PAC-SH95AG-E

Air protect guide for PUMY-SM

PAC-SG61DS-E

Drain socket set for PUMY-SM

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-42MAAB / PAR-CT01MAA),
on/off input and run/fault output

MAC-497IF-E

Interface for MA remote controller
(PAR-42MAAB / PAR-CT01MAA)

MAC-597IF-E

Interface for Wi-Fi connection to MELCloud Home service

PAR-42MAAB/MAAPB

Standard wired remote controller (MAAPB = Black Finish)

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

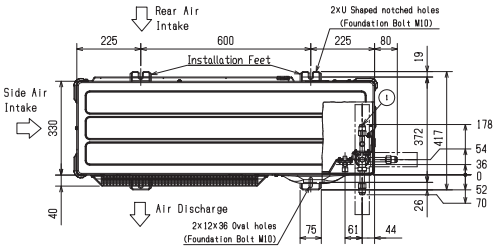
MELCORETAIL MINI

Retail control and input / output interface

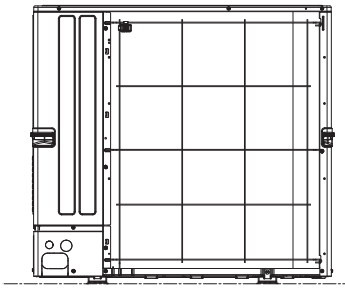
Product Dimensions

PUMY-SM112/125/140VKM2/YKM2

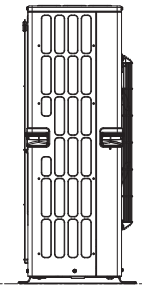
Upper View



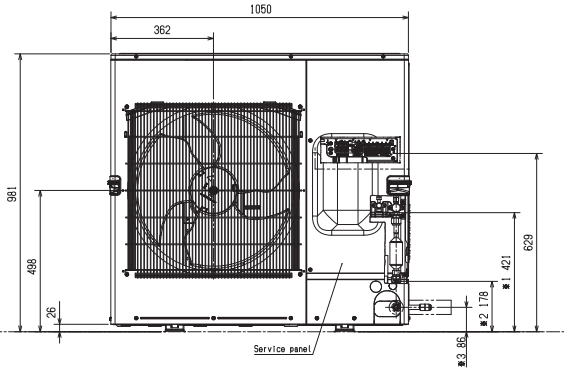
Rear View



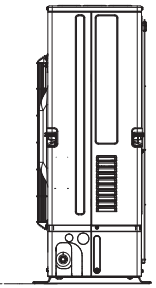
Left Side View



Front View



Right Side View



PUMY-M R32 Inverter Heat Pump

(22.4kW)

Multi-Split Unit



The **PUMY-M** Inverter Heat Pump system allows up to 11 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)
- 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
- Plug & Play Safety measure - shut-off valve integrated into outdoor unit, with option of using low level leak detectors PAC-SL72SA-E in the occupied spaces

R32

PUMY-M OUTDOOR UNIT		PUMY-M200YKM ③
NUMBER OF CONNECTABLE INDOOR UNITS	Branch box / Mixed*1	8 / 11
CAPACITY (kW)	Heating (nominal max)	25.0
	Cooling (nominal)	22.4
	Heating (UK)	25.0
	Cooling (UK)	17.6
COP / EER (nominal max)		4.27 / 3.12
MAX AIRFLOW (m^3/min)		135.9
SOUND PRESSURE LEVEL (dBA)	Cooling	56
SOUND POWER LEVEL (dBA)	Cooling	74
DIMENSIONS (mm)	Width x Depth x Height	1050 x 330+40 x 1338
WEIGHT (kg)		128
ELECTRICAL SUPPLY		380-415v, 50Hz
PHASE		Three
POWER INPUT (kW)	Heating (max) / Cooling (nominal)	5.85 / 7.18
	Heating (UK) / Cooling (UK)	7.52 / 3.43
STARTING CURRENT (A)		7
RUNNING CURRENT (A)	Heating / Cooling [MAX]	9.30 / 11.39 [19.0]
FUSE RATING (BS88) - HRC (A)		1 x 20
PIPE SIZE MM (in)	Gas	19.05 (3/4")
	Liquid	9.52 (3/8")
TOTAL PIPING LENGTH (m)	Branch box / Mixed*1	150
FURTHEST PIPING LENGTH (m)		80
BETWEEN BRANCH BOXES AND OUTDOOR UNIT - LENGTH (m)		55
BETWEEN BRANCH BOXES AND INDOOR UNIT - LENGTH (m)		25
BETWEEN INDOOR AND OUTDOOR UNIT - HEIGHT (m)		50m max*2
BETWEEN INDOOR AND INDOOR UNITS - HEIGHT (m)		12
CHARGE REFRIGERANT (kg) /CO_2 EQUIVALENT (t) - R32 (GWP 675)		3.0 / 2.0
MAX ADDITIONAL REFRIGERANT (kg) /CO_2 EQUIVALENT (t) - R32 (GWP 675)		9.4 / 6.3

③ Three Phase

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

PAC-MMK - BRANCH BOX		PAC-MMK40BCB
NUMBER OF CONNECTABLE INDOOR UNITS		4
COMPATIBLE INDOOR UNITS		M Series, Mr Slim
WEIGHT (kg)		10.4
DIMENSIONS (mm)	Width x Depth x Height	450 x 372 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.

Accessories

Outdoor Units

CMY-Y62-G-E

Branch pipe (2 branches) for PUMY-M

PAC-SL72SA-E

Sensor & Alarm kit for PUMY-M

PAC-SL73IFL-E

Power Interface for PUMY-M

PAC-SH96SG-E

Air outlet guide for PUMY-M

PAC-SH95AG-E

Air protect guide for PUMY-M

PAC-SG61DS-E

Drain socket set for PUMY-M

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-42MAAB / PAR-CT01MAA), on/off input and run/fault output

MAC-497IF-E

Interface for MA remote controller (PAR-42MAAB / PAR-CT01MAA)

MAC-597IF-E

Interface for Wi-Fi connection to MELCloud Home service

PAR-42MAAB/MAAPB

Standard wired remote controller (MAAPB = Black Finish)

MELCOBEMS MINI (A1M+)

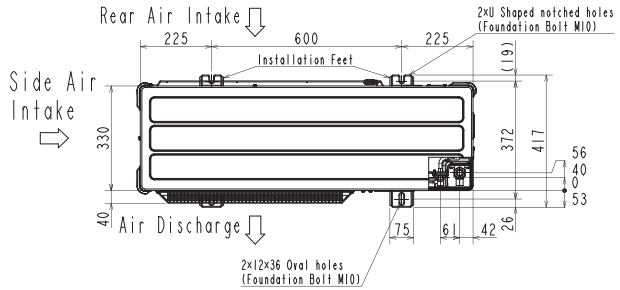
Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

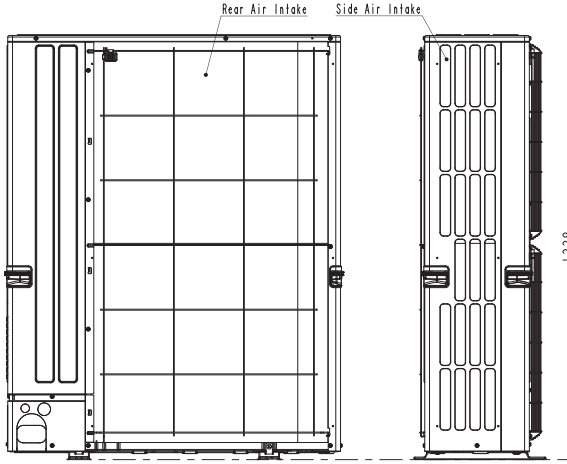
Retail control and input / output interface

Product Dimensions PUMY-M200YKM

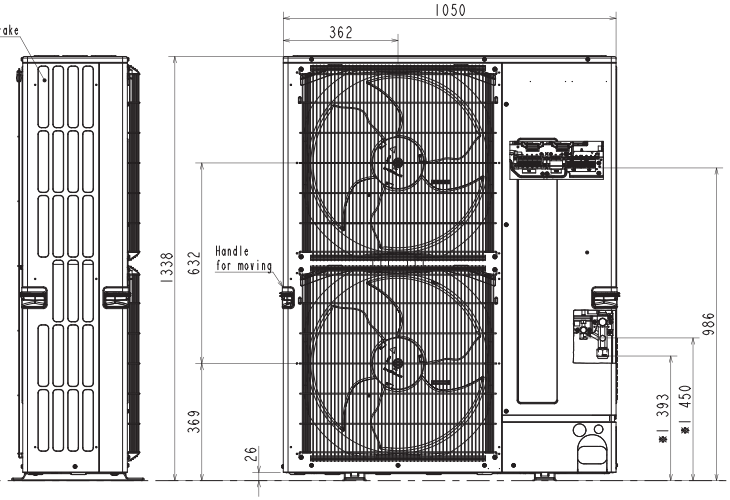
Upper View



Rear View

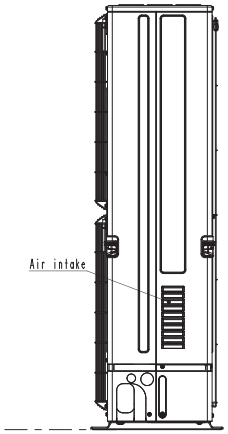


Left Side View



Front View

Right 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 11 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

R410A

PUMY-SP - OUTDOOR UNITS		PUMY-SP112VKM3	PUMY-SP112YKM3 [3]	PUMY-SP125VKM3	PUMY-SP125YKM3 [3]	PUMY-SP140VKM3	PUMY-SP140YKM3 [3]
NUMBER OF CONNECTABLE INDOOR UNITS	Branch box / Mixed*1	8 / 11	8 / 11	8 / 11	8 / 11	8 / 11	8 / 11
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 (m^3/min)		77	77	83	83	83	83
SOUND PRESSURE LEVEL (dBA)	Cooling	52	52	53	53	54	54
SOUND POWER LEVEL (dBA)	Cooling	72	72	73	73	74	74
DIMENSIONS (mm)	Width x Depth x Height	1050 x 330+40 x 981	1050 x 330+40 x 981	1050 x 330+40 x 981	1050 x 330+40 x 981	1050 x 330+40 x 981	1050 x 330+40 x 981
WEIGHT (kg)		93	94	93	94	93	94
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
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	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	5.58 / 2.49
STARTING CURRENT (A)		14	7	14	7	14	7
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]
FUSE RATING (BS88) - HRC (A)		1 x 32	1 x 16	1 x 32	1 x 16	1 x 32	1 x 16
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")
TOTAL PIPING LENGTH (M)	Branch box / Mixed*1	120	120	120	120	120	120
FURTHEST PIPING LENGTH (M)	(with no branch boxes)	80 (70)	80 (70)	80 (70)	80 (70)	80 (70)	80 (70)
BETWEEN BRANCH BOXES AND OUTDOOR UNIT - LENGTH (m)		55	55	55	55	55	55
BETWEEN BRANCH BOXES AND INDOOR UNIT - LENGTH (m)		25	25	25	25	25	25
BETWEEN INDOOR AND OUTDOOR UNIT - HEIGHT (m)		50m max*2	50m max*2	50m max*2	50m max*2	50m max*2	50m max*2
BETWEEN INDOOR AND INDOOR UNITS - HEIGHT (m)		12	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	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	9.0 / 18.79

[3] Three Phase **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-MK53BCB
NUMBER OF CONNECTABLE INDOOR UNITS		5
COMPATIBLE INDOOR UNITS		M Series, Mr Slim
WEIGHT (kg)		7.0
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.

PAC-LV - LEV KIT INTERFACE		PAC-LV11M
NUMBER OF CONNECTABLE INDOOR UNITS		1
COMPATIBLE INDOOR UNITS		M Series
CAPACITY INDEX OF INDOOR UNITS		15 to 50
WEIGHT (kg)		3.5
DIMENSIONS (mm)	Width x Depth x Height	355 x 142 x 138
ELECTRICAL SUPPLY		220-240v, 50Hz / Single Phase
FUSE RATING (BS88) - HRC (A)		6

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-SP

PAC-SH96SG-E

Air outlet guide for PUMY-SP

PAC-SH95AG-E

Air protect guide for PUMY-SP

PAC-SG61DS-E

Drain socket set for PUMY-SP

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-42MAAB / PAR-CT01MAA), on/off input and run/fault output

MAC-497IF-E

Interface for MA remote controller (PAR-42MAAB / PAR-CT01MAA)

MAC-597IF-E

Interface for Wi-Fi connection to MELCloud Home service

PAR-42MAAB/MAAPB

Standard wired remote controller (MAAPB = Black Finish)

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

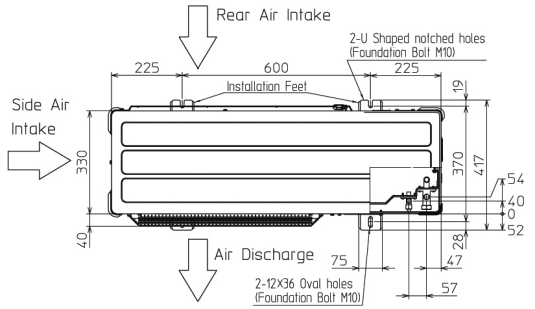
MELCORETAIL MINI

Retail control and input / output interface

Product Dimensions

PUMY-SP112/125/140VKM3/YKM3

Upper View

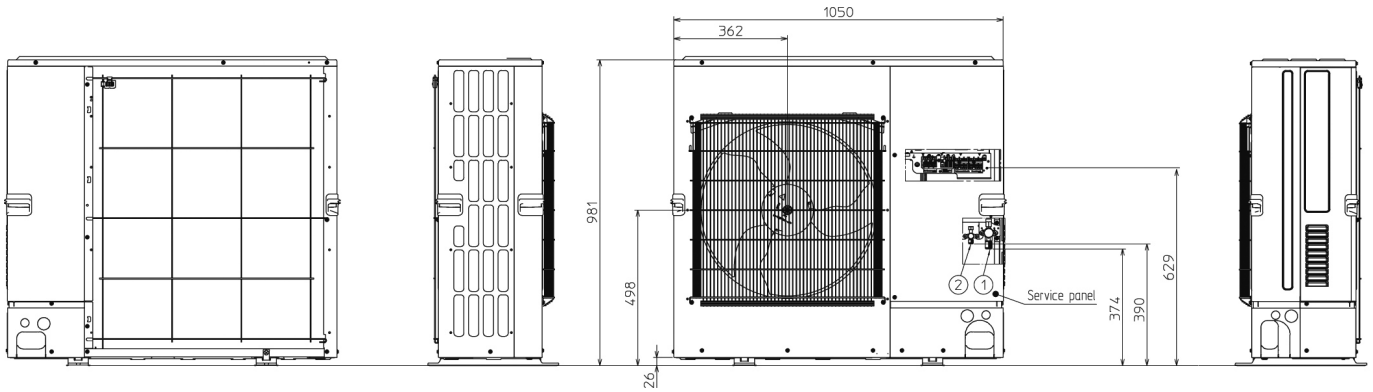


Rear View

Left Side View

Front View

Right Side View



PUMY-P R410A Inverter Heat Pump

(12.5-33.5kW)

Multi-Split Units

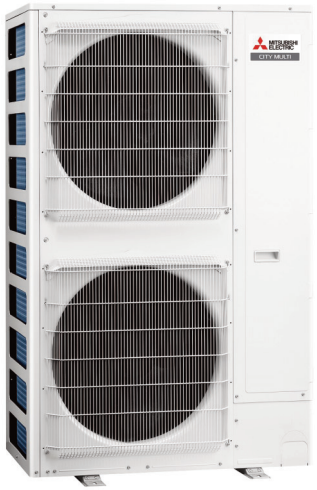
The **PUMY-P** Inverter Heat Pump system allows up to 30 indoor units to be connected to a single outdoor unit. Compatibility with City Multi, Mr Slim and the stylish M Series indoor units makes this an extremely flexible, economic, and energy-efficient solution for multi-room applications. With a slimline 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

R410A





PUMY-P OUTDOOR UNITS		PUMY-P112VKM7	[3] PUMY-P112YKM7	PUMY-P125VKM7	[3] PUMY-P125YKM7	PUMY-P140VKM7	[3] PUMY-P140YKM7	[3] PUMY-P200YKM4	[3] PUMY-P250YBM3	[3] PUMY-P300YBM3
NUMBER OF CONNECTABLE INDOOR UNITS	Branch box / Mixed*1	8 / 10	8 / 10	8 / 11	8 / 11	8 / 11	8 / 11	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)		4.01 / 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	4.35 / 3.41	4.50 / 2.80
MAX AIRFLOW (m^3/min)		110	110	110	110	110	110	135.9	183	183
SOUND PRESSURE LEVEL (dBA)	Cooling	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 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	1050 x 330+40 x 1338	1050 x 460+45 x 1662	1050 x 460+45 x 1662
WEIGHT (kg)		125	126	125	126	125	126	139	194	194
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	7.24 / 8.21	8.33 / 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	9.57 / 4.56	10.99 / 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]	11.24 / 12.74 [28.4]	12.93 / 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")	22.2 (7/8")	22.2 (7/8")
	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")	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	50m max*3	50m max*3	50m max*3	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)		13.8 / 28.8	13.8 / 28.8	13.8 / 28.8	13.8 / 28.8	13.8 / 28.8	13.8 / 28.8	10.7 / 22.3	22.8 / 47.6	22.8 / 47.6

[3] Three Phase

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-MK53BCB
NUMBER OF CONNECTABLE INDOOR UNITS		5
COMPATIBLE INDOOR UNITS		M Series, Mr Slim
WEIGHT (kg)		7.0
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.

PAC-LV - LEV KIT INTERFACE		PAC-LV11M
NUMBER OF CONNECTABLE INDOOR UNITS		1
COMPATIBLE INDOOR UNITS		M Series
CAPACITY INDEX OF INDOOR UNITS		15 to 50
WEIGHT (kg)		3.5
DIMENSIONS (mm)	Width x Depth x Height	355 x 142 x 138
ELECTRICAL SUPPLY		220-240v, 50Hz / Single Phase
FUSE RATING (BS88) - HRC (A)		6

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-P

PAC-SH96SG-E
Air outlet guide for PUMY-P112-200

PAC-SH95AG-E
Air protect guide for PUMY-P112-200

PAC-SG61DS-E
Drain socket set for PUMY-P112-200

PAC-SK22SG-E
Air outlet guide for PUMY-P250/300

PAC-SK21AG-E
Air protect guide for PUMY-P250/300

PAC-SK27DS-E
Drain socket set for PUMY-P250/300

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-42MAAB / PAR-CT01MAA),
on/off input and run/fault output

MAC-497IF-E
Interface for MA remote controller
(PAR-42MAAB / PAR-CT01MAA)

MAC-597IF-E
Interface for Wi-Fi connection to MELCloud Home service

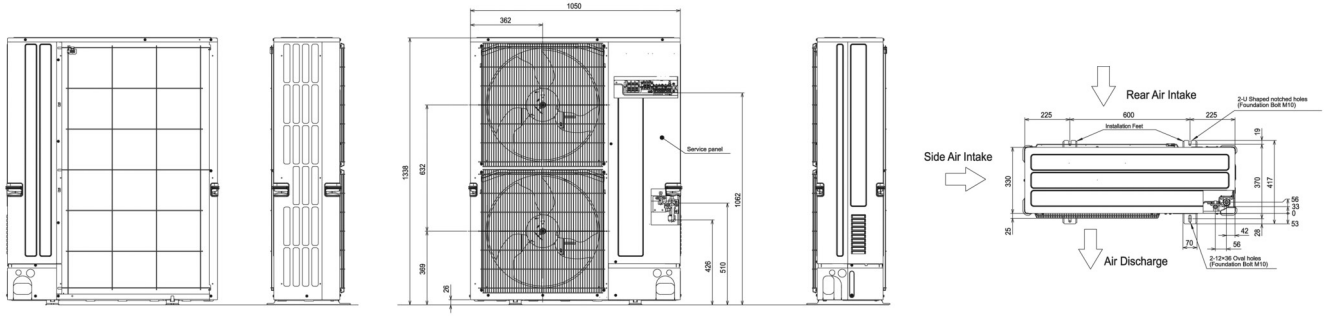
PAR-42MAAB/MAAPB
Standard wired remote controller (MAAPB = Black Finish)

MELCOBEMS MINI (A1M+)
Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI
Retail control and input / output interface

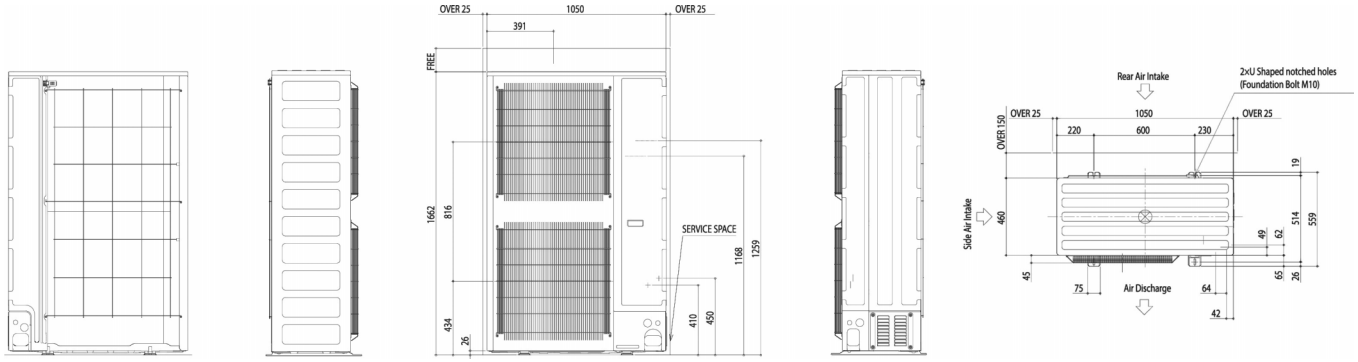
Product Dimensions PUMY-P112/125/140VKM7/YKM7, PUMY-P200YKM4

Rear View | Left Side View | Front View | Right Side View | Upper View



Product Dimensions PUMY-P250/300YBM3

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-2F33VF5, MXZ-2F42VF5, MXZ-2F53VF5, MXZ-2HA40VF3, MXZ-2HA50VF3
MAC-856SG	Air outlet guide for MXZ-3F54VF5, MXZ-3F68VF5, MXZ-4F72VF5, MXZ-3HA50VF3
PAC-SH96SG-E	Air outlet guide for MXZ-4F83VF3, MXZ-5F102VF3, MXZ-6F120VF3
CMY-Y62-G-E	Branch pipe (2 branches) for PUMY-(S)M / PUMY-(S)P
PAC-SL72SA-E	Sensor & Alarm kit for PUMY-(S)M
PAC-SL73IFL-E	Power Interface for PUMY-(S)M
PAC-SH96SG-E	Air outlet guide for PUMY-(S)M / PUMY-(S)P112-200
PAC-SH95AG-E	Air protect guide for PUMY-(S)M / PUMY-(S)P112-200
PAC-SG61DS-E	Drain socket set for PUMY-(S)M / PUMY-(S)P112-200
PAC-SK22SG-E	Air outlet guide for PUMY-P250/300
PAC-SK21AG-E	Air protect guide for PUMY-P250/300
PAC-SK27DS-E	Drain socket set for PUMY-P250/300

SYSTEM CONTROL UNITS	DESCRIPTION
PAR-42MAAB	Standard white wired remote controller
PAR-42MAAPB	Standard black wired remote controller
MAC-334IF-E	Interface for M-NET, MA remote controller (PAR-42MAAB / PAR-CT01MAA), on/off input and run/fault output. Now includes a heating interlock mode
MAC-497IF-E	Interface for MA remote controller (PAR-42MAAB / PAR-CT01MAA)
MAC-597IF-E	Interface for Wi-Fi connection to MELCloud Home 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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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**.





Lower GWP R32 VRF air conditioning systems from Mitsubishi Electric

With the launch of our YNW R32 VRF systems, Mitsubishi Electric were the first manufacturer to offer the UK market a complete range of lower Global Warming Potential (GWP) solutions.

Under the growing pressure of the revised F-Gas phase down regulations, the market is demanding viable and positive solutions which are future proof for businesses and last the full lifecycle of the product.

R32 is now the norm for split-type air conditioning systems, offering a lower GWP (675) than R410A (2088). At the same time, the use of VRF systems has grown intensively over the past decade due to the core benefits of flexibility, energy saving and automated control.

The unique Hybrid VRF system had been the only viable R32 solution available to the UK market. However, utilising the innovative City Multi YNW outdoor unit, we developed our new R32 VRF solution to offer complete design flexibility, high efficiency and low noise.

R32 makes up 50% of the existing R410A refrigerant already found in many current VRF systems; it is highly energy efficient and easy to recycle. A GWP of one third of R410A, plus reduced overall system refrigerant volumes, means a lower refrigerant total and lower global warming impact.

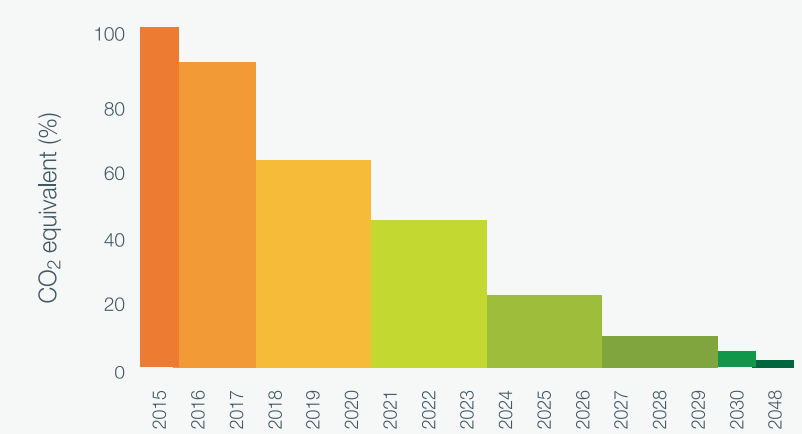
No matter which stage of the supply chain you or your customers occupy and whatever the core drivers, the solutions available from our complete range of VRF products can meet the tough demands of today's buildings. Whether CSR is high on the agenda, or lifecycle cost or capital cost, **there is a choice available from Mitsubishi Electric**.

R32

Heat Recovery | R2 VRF R32 | R2 VRF R410A | R2 HVRF R32

Heat Pump | Y VRF R32 | Y VRF R410A

F-Gas - HFC phase down programme*



Customers need a manufacturer that is ahead of the curve and developing products that meet both current and future legislation.

Options to reduce the CO_2 equivalent include:

- **Decreasing kW on the market**
- **Reducing the amount of refrigerant**
- **Lowering the GWP of refrigerant**

VRF now utilises lower GWP R32 refrigerant.

* F-Gas 2024 phase down programme: http://ec.europa.eu/clima/policies/f-gas/legislation/index_en.htm



City Multi
R32 YXM VRF

Since 2020, City Multi VRF systems have been available using R32 refrigerant. R32 is the preferred refrigerant in the air conditioning industry due to its efficiency and lower environmental impact, and being a single component refrigerant, it means it is easier to reuse and to recycle. With R32 less refrigerant is required, and alongside our ability to supply multiple system sizes, means that a single refrigerant can be used across an entire building or estate.

Introducing the City Multi YXM

Sustainability is at the heart of the design of the new City Multi R32 VRF YXM range.

The latest design innovations have improved the system efficiency, maximised the use of lower Global Warming Potential (GWP) R32 refrigerant and significantly reduced the system charge. In combination, the impact of these advances is a reduction in running costs, lower operational carbon and improved payback periods, all while delivering for customers committed to achieving their CSR goals.

CITY MULTI
YXM

Versatile & Familiar

What's new is a completely redesigned chassis, packed with advanced technology that takes performance to the next level.

Expect improved comfort, greater energy savings, and all the familiar benefits of a VRF system with true plug-and-play simplicity. Our new City Multi R32 YXM VRF solution not only meets the latest legislative requirements but also delivers market-leading seasonal efficiency. With an expanded range of options in both Heat Pump and Heat Recovery versions, and capacities up to 112kW, it simplifies both design and installation – making it easier than ever to deliver high-performance climate control.

Technology that Drives Efficiency

The new City Multi R32 VRF YXM range incorporates advanced technologies to enhance sustainability and efficiency.

A redesigned Vertical Flat Tube (VFT) Heat Exchanger on our High Efficiency models improves heating performance and optimises refrigerant distribution, while upgraded defrost technology reduces downtime and boosts heating capacity by up to 10% – ideal for retrofits. Safety is ensured through compliance with BS EN378 Part 3, using Mitsubishi Electric's low-level leak detector called the 'Sensor and Alarm kit'.

CITY MULTI YXM





CITY MULTI | Energy Efficient VRF Systems

City Multi YXM VRF
Features & Benefits

1 Location

- **Ultra-Compact Modular Design** - Smaller unit footprint allows installation in tight spaces without compromising on performance
- **113m Vertical Height Separation** - Offers generous height allowance between indoor and outdoor units, enabling design flexibility in larger buildings



2 Comfort

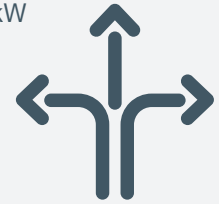
- **Simultaneous Heating & Cooling** - Meets diverse comfort needs across different zones at the same time for optimal occupant satisfaction
- **Enhanced Defrost Technology** - Reduces system downtime during defrost cycles, minimising temperature fluctuations and maintaining reliable indoor heating for consistent occupant comfort
- **Extended Heating Range (-25°C)** - Ensures reliable heating even in severe winter conditions by maintaining efficient system operation
- **Low Noise Operation** - Features a 5-step low noise mode that minimises sound levels for quieter surroundings





3 Design Flexibility

- **Heat Pump and Heat Recovery** - options from 22 to 112kW
- **Unique 2-Pipe System** - Simplifies installation and maintenance while reducing system complexity
- **Broad Indoor Unit Compatibility** - Connects to a wide range of indoor unit types and capacities, making it suitable for varied building applications
- **Easy-to-Maintain Safety Feature Options** - For reduced onsite time and costs while supporting occupant peace of mind
- **New Heat Recovery Branch Controller** - supporting up to 12 ports with built-in shut-off valves and compact 252mm height for tight ceiling spaces
- **Optional Low Level Leak Detector (PAC-SL72SA-E)** - Provides long service life, easy maintenance and supports compliance and safety regulations
- **Up to 80Pa External Static Pressure** - option to allow duct and acoustic attenuation installation



City Multi YXM VRF
Features & Benefits

4 Efficiency

- **Market Leading Seasonal Efficiencies** - reducing running costs and operational carbon emissions
- **Heat Recovery Operation** - Delivers up to 30% energy savings compared to heat pump systems through advanced heat recovery
- **Patented Vertical Flat Tube Heat Exchanger** - Maximises heat exchange efficiency, reducing energy consumption and run costs (High Efficiency models)

5 Sustainability

- **Lower GWP R32 Refrigerant** - for reduced carbon impact and future-ready legislation compliance
- **Reduced Refrigerant Charge** - YXM High Efficiency models use less refrigerant than the YXM standard efficiency model, lowering embodied carbon and whole-life carbon impact



CITY MULTI | Energy Efficient VRF Systems

Outdoor / Condensing Unit Range

Air Cooled

Heat Recovery - R2 Series		(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
			12	14	16	22	28	34	40	45	50	56	62	67	74	80	85	90	95	100	106	112	118	124	130	136	140	146	150
High Efficiency PURY-EM (YXM)	R32					S	S	S	L	L	L	L	S	S	S	L	L	L	L	L	L	L							
													S	S	L	L	L	L	L	L	L	L							
Standard Efficiency PURY-M (YXM)	R32					S	S	S	L	L	L	L	S	S	S	L	L	L	L	L	L	L							
													S	S	L	L	L	L	L	L	L	L							
High Efficiency PURY-EP (YNW)	R410A					S	S	S	L	L	L	XL	XL	S	S	L	L	L	L	L	L	XL	XL	XL					
														S	L	L	L	L	L	L	XL	XL	XL	XL					
Standard Efficiency PURY-P (YNW)	R410A					S	S	S	L	L	L	XL	XL	S	S	L	L	L	L	L	L	XL	XL	XL					
														S	L	L	L	L	L	L	XL	XL	XL	XL					

Heat Pump - Y Series		(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
			12	14	16	22	28	34	40	45	50	56	62	67	74	80	85	90	95	100	106	112	118	124	130	136	140	146	150
PUHY-M (YXM)	R32					S	S	S	L	L	L	L	S	S	S	L	L	L	L	L	L	L							
													S	S	L	L	L	L	L	L	L	L							
Mini VRF PUMY-(S)M	R32		●	●	●	● Twin Fan																							
PUHY-P (YNW)	R410A					S	S	S	L	L	L	XL	S	S	S	L	L	L	L	L	S	S	S	L	L	L	L	L	L	L
													S	S	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
Mini VRF PUMY-(S)P	R410A		●	●	●	● Twin Fan	● Twin Fan	● Twin Fan																					

Water Cooled

Heat Recovery - WR2 Series		(kW)	112	125	140	200	250	300	350	400	450	500	550	600	700	750	800	850	900
			12	14	16	22	28	34	40	45	50	56	63	69	80	85	90	96	101
PQRY-P (YLM)	R410A					●	●	●	●	●	●	●	●	●	●	●	●	●	●
															●	●	●	●	●

Heat Pump - WY Series		(kW)	112	125	140	200	250	300	350	400	450	500	550	600	700	750	800	850	900
			12	14	16	22	28	34	40	45	50	56	63	69	80	85	90	96	101
PQHY-P (YLM)	R410A					●	●	●	●	●	●	●	●	●	●	●	●	●	●
															●	●	●	●	●

S Small chassis R32 & R410A

L Large chassis R32 & R410A

XL Extra Large chassis R410A

Indoor Unit Range

Model	Range		Compatible with Plasma Quad Connect	(kW)	10	15	20	25	32	40	50	63	80	100	125	140	200	250
					1.2	1.7	2.2	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0	22.4	28.0
Ceiling Concealed Ducted	PEFY-MS-VMS-A (Ultra Thin)	R32 R410A	●			●	●	●	●	●	●	●						
	PEFY-MS-VMA-A1	R32 R410A	●				●	●	●	●	●	●	●	●	●			
	PEFY-MS-VMHS-A (High Static Pressure)	R32 R410A											●	●	●	●	●	●
4-Way Blow Ceiling Cassette	PLFY-MS-VEM2-E	R32 R410A	●						●	●	●	●	●	●	●			
	PLFY-MS-VFM2-E (600x600)	R32 R410A				●	●	●	●	●	●							
Floor Standing	PFFY-P-VCM-E (Concealed)	R410A					●	●	●	●	●	●						
	PFFY-P-VEM-E (Exposed)	R410A					●	●	●	●	●	●						
	PFFY-P-VKM-E (Exposed)	R410A					●	●	●	●								
Wall Mounted	PKFY-MS-VLM2-E	R32 R410A	●		●	●	●	●	●									
	PKFY-MS-VLM2-E	R32 R410A	●							●	●							
	PKFY-MS-VKM2-E	R32 R410A	●									●						
Ceiling Suspended	PCFY-MS-VKM2-E	R32 R410A								●		●		●	●			
VRF Sanitary Water Heater	PWFY-P-VM-E1-BU	R410A												●				
Lossnay Outdoor Air Processing Unit	GUX-MS-E	R32 R410A							●		●		●	●				

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 Units

CITY MULTI YXM





The **City Multi R2 Series** VRF High Efficiency Heat Recovery system delivers exceptional seasonal energy performance, providing simultaneous heating and cooling while redistributing surplus heat where it's needed. This advanced heat recovery approach can achieve up to 30% energy savings over conventional systems. As the only 2-pipe heat recovery solution on the market, the modular City Multi R2 Series simplifies installation and maintenance while offering complete design lexibility for applications such as hotels, offices, and leisure spaces.

Key Features & Benefits

- Heat Recovery Operation - delivers up to 30% energy savings compared to heat pump systems through advanced heat recovery
- Lower GWP R32 Refrigerant - for reduced carbon impact and future-ready legislation compliance
- Simultaneous Heating & Cooling - meets diverse comfort needs across different zones at the same time for optimal occupant satisfaction
- Unique 2-Pipe System - simplifies installation and maintenance while reducing system complexity
- Ultra-Compact Modular Design - smaller unit footprint allows installation in tight spaces without compromising on performance
- Broad Indoor Unit Compatibility - connects to a wide range of unit types and capacities, making it suitable for varied building applications
- Patented Vertical Flat Tube Heat Exchanger - maximises heat exchange efficiency, reducing energy consumption and run costs
- Reduced Refrigerant Charge - uses less refrigerant than the YXM standard efficiency model, lowering embodied carbon and whole-life carbon impact
- Extended Heating Range (-25°C) - ensures reliable heating even in severe winter conditions by maintaining efficient system operation
- Easy-to-Maintain Safety Feature Options - for reduced onsite time and costs while supporting occupant peace of mind
- Enhanced Defrost Technology - reduces system downtime during defrost cycles, minimising temperature fluctuations and maintaining reliable indoor heating for consistent occupant comfort
- Low Noise Operation - features a 5-step low noise mode that minimises sound levels for quieter surroundings
- 113m Vertical Height Separation - offers generous height allowance between indoor and outdoor units, enabling design flexibility in larger buildings

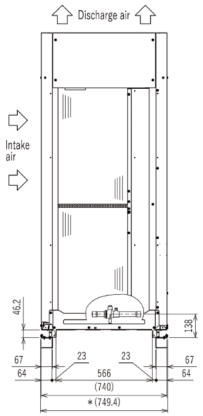
R32

OUTDOOR UNITS		PURY-EM200YXM-A	PURY-EM250YXM-A	PURY-EM300YXM-A	PURY-EM350YXM-A	PURY-EM400YXM-A	PURY-EM400YSXM-A
CAPACITY (kW)	Heating (nominal max)	25.0	31.5	37.5	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	37.5	45.0	50.0	50.0
	COP Priority Heating (UK)	24.0	30.2	36.0	43.2	48.0	48.0
	Cooling (UK)	20.0	25.1	30.0	35.8	40.1	40.1
POWER INPUT (kW)	Heating (nominal max)	5.56	7.46	9.23	12.36	13.81	11.49
	Cooling (nominal)	4.81	6.81	8.13	10.89	12.56	9.73
	High Performance Heating (UK)	7.34	10.15	12.92	16.69	19.20	15.17
	COP Priority Heating (UK)	6.67	8.95	11.08	14.96	16.71	13.79
	Cooling (UK)	4.67	5.99	7.15	10.35	11.56	9.44
COP / EER (nominal max)		4.49 / 4.65	4.22 / 4.11	4.06 / 4.12	3.64 / 3.67	3.62 / 3.58	4.35 / 4.60
SCOP / SEER		4.70 / 8.70	4.68 / 8.36	4.71 / 8.81	4.72 / 8.27	4.56 / 7.92	4.70 / 8.65
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 (m^3/min)	High	170	170	200	250	310	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	57.5 / 56.0	58.0 / 56.0	62.0 / 60.5	62.0 / 57.5	64.0 / 61.0	61.0 / 60.0
SOUND POWER LEVEL (DBA) @ 100% CAPACITY	Heating / Cooling	78.0 / 75.0	79.0 / 78.0	83.0 / 80.0	82.0 / 78.0	86.0 / 82.0	82.0 / 79.0
SOUND POWER LEVEL (DBA) @ 90% CAPACITY	Heating / Cooling	76.0 / 73.0	77.0 / 74.0	82.0 / 77.0	84.0 / 75.0	87.0 / 80.0	79.0 / 76.0
SOUND POWER LEVEL (DBA) @ 75% CAPACITY	Heating / Cooling	72.0 / 70.0	74.0 / 71.0	78.0 / 73.0	78.0 / 72.0	82.0 / 76.0	75.0 / 73.0
WEIGHT (kg)		272	272	273	312	317	272 + 272
DIMENSIONS (mm)	Width	910	910	910	1207	1207	910 + 910
	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
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]	8.9 / 7.7 [21.3]	11.9 / 10.9 [21.3]	14.8 / 13.0 [26.5]	19.8 / 17.4 [27.2]	22.1 / 20.1 [30.2]	18.4 / 15.6 [21.3 + 21.3]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52
FUSE RATING (MCB SIZES BS EN 60947-2) - (A)*1		1 x 25	1 x 25	1 x 32	1 x 32	1 x 32	1 x 25 / 1 x 25
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) R32 (GWP 675)		5.3 / 3.6	5.3 / 3.6	5.3 / 3.6	6.3 / 4.3	6.3 / 4.3	10.4 / 7.2
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (T) R32 (GWP 675)		25.7 / 17.3	30.1 / 20.3	31.0 / 20.9	30.9 / 20.9	31.6 / 21.3	48.0 / 32.4

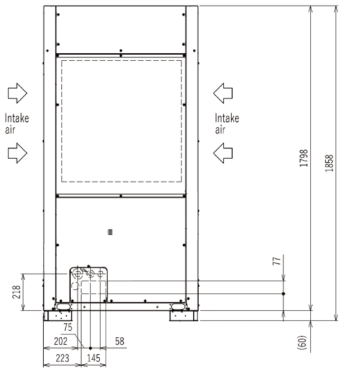
Notes:
ErP Lot 6 calculation method to EN14825.
*1 A separate power supply is required for each module.
Where more than one figure is quoted there are multiple modules.

Product Dimensions PURY-EM200/250/300YXM-A

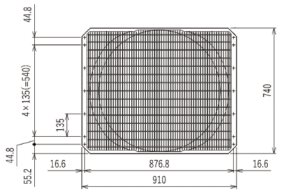
Side View



Front View

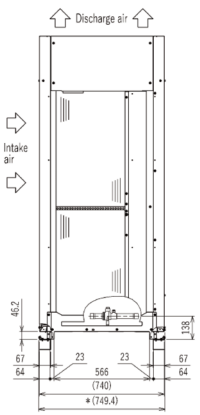


Upper View

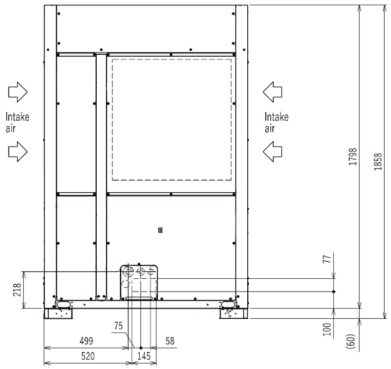


Product Dimensions PURY-EM350/400YXM-A

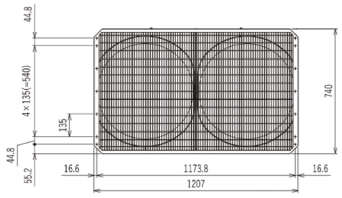
Side View



Front View

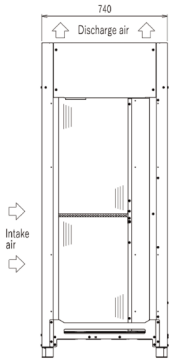


Upper View

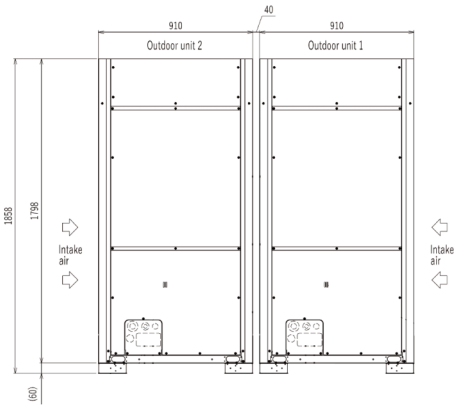


Product Dimensions PURY-EM400YSXM-A

Side View



Front View



R2 Series VRF High Efficiency (50-67kW)

Simultaneous Heating and Cooling with Heat Recovery Outdoor Units

CITY MULTI YXM





The **City Multi R2 Series** VRF High Efficiency Heat Recovery system delivers exceptional seasonal energy performance, providing simultaneous heating and cooling while redistributing surplus heat where it's needed. This advanced heat recovery approach can achieve up to 30% energy savings over conventional systems. As the only 2-pipe heat recovery solution on the market, the modular City Multi R2 Series simplifies installation and maintenance while offering complete design lexibility for applications such as hotels, offices, and leisure spaces.

Key Features & Benefits

- Heat Recovery Operation - delivers up to 30% energy savings compared to heat pump systems through advanced heat recovery
- Lower GWP R32 Refrigerant - for reduced carbon impact and future-ready legislation compliance
- Simultaneous Heating & Cooling - meets diverse comfort needs across different zones at the same time for optimal occupant satisfaction
- Unique 2-Pipe System - simplifies installation and maintenance while reducing system complexity
- Ultra-Compact Modular Design - smaller unit footprint allows installation in tight spaces without compromising on performance
- Broad Indoor Unit Compatibility - connects to a wide range of unit types and capacities, making it suitable for varied building applications
- Patented Vertical Flat Tube Heat Exchanger - maximises heat exchange efficiency, reducing energy consumption and run costs
- Reduced Refrigerant Charge - uses less refrigerant than the YXM standard efficiency model, lowering embodied carbon and whole-life carbon impact
- Extended Heating Range (-25°C) - ensures reliable heating even in severe winter conditions by maintaining efficient system operation
- Easy-to-Maintain Safety Feature Options - for reduced onsite time and costs while supporting occupant peace of mind
- Enhanced Defrost Technology - reduces system downtime during defrost cycles, minimising temperature fluctuations and maintaining reliable indoor heating for consistent occupant comfort
- Low Noise Operation - features a 5-step low noise mode that minimises sound levels for quieter surroundings
- 113m Vertical Height Separation - offers generous height allowance between indoor and outdoor units, enabling design flexibility in larger buildings

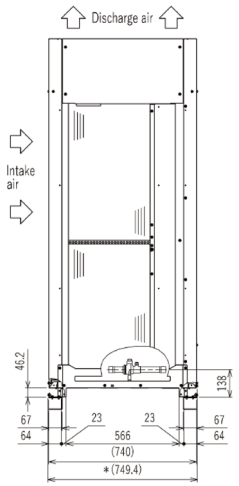
R32

OUTDOOR UNITS		PURY-EM450YXM-A	PURY-EM450YSXM-A	PURY-EM500YXM-A	PURY-EM500YSXM-A	PURY-EM550YSXM-A	PURY-EM600YSXM-A
CAPACITY (kW)	Heating (nominal max)	56.0	56.5	58.0	63.0	69.0	75.0
	Cooling (nominal)	50.0	50.4	56.0	56.0	61.5	67.0
	High Performance Heating (UK)	52.6	56.5	53.9	63.0	62.1	71.3
	COP Priority Heating (UK)	49.3	54.2	51.0	60.5	66.2	72.0
	Cooling (UK)	44.8	45.1	50.1	50.1	55.0	60.0
POWER INPUT (kW)	Heating (nominal max)	16.37	13.38	17.21	15.40	17.20	19.08
	Cooling (nominal)	14.83	11.72	17.33	13.96	15.33	16.70
	High Performance Heating (UK)	19.15	18.20	20.14	20.94	24.08	26.71
	COP Priority Heating (UK)	17.35	16.19	18.24	18.63	20.81	23.09
	Cooling (UK)	13.64	10.31	16.12	12.28	13.49	14.70
COP / EER (nominal max)		3.42 / 3.37	4.22 / 4.30	3.37 / 3.23	4.09 / 4.01	4.01 / 4.01	3.93 / 4.01
SCOP / SEER		4.45 / 7.82	4.69 / 8.44	4.35 / 7.35	4.68 / 8.24	4.69 / 8.46	4.71 / 8.67
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 (m^3/min)	High	315	170 / 170	315	170 / 170	200 / 170	200 / 200
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	68.0 / 62.5	61.0 / 60.0	68.5 / 67.0	62.0 / 60.0	64.0 / 62.0	66.0 / 64.0
SOUND POWER LEVEL (DBA) @ 100% CAPACITY	Heating / Cooling	89.0 / 83.0	82.0 / 80.0	91.0 / 87.0	83.0 / 82.0	85.0 / 83.0	87.0 / 84.0
SOUND POWER LEVEL (DBA) @ 90% CAPACITY	Heating / Cooling	87.0 / 81.0	79.5 / 76.5	88.0 / 85.0	80.0 / 77.0	83.2 / 77.6	85.0 / 80.0
SOUND POWER LEVEL (DBA) @ 75% CAPACITY	Heating / Cooling	83.0 / 77.0	76.1 / 73.5	84.0 / 81.0	77.0 / 74.0	79.4 / 73.8	81.0 / 76.0
WEIGHT (kg)		317	272 + 272	317	272 + 272	273 + 272	273 +273
DIMENSIONS (mm)	Width	1207	910 + 910	1207	910 + 910	910 + 910	910 + 910
	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]	26.2 / 23.7 [30.2]	21.4 / 18.7 [21.3 + 21.3]	27.6 / 27.7 [33.3]	24.6 / 22.3 [21.3 + 21.3]	27.5 / 24.5 [21.3 + 26.5]	30.5 / 26.7 [26.5 + 26.5]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52
FUSE RATING (MCB SIZES BS EN 60947-2) - (A)*2		1 x 32	1 x 25 / 1 x 25	1 x 40	1 x 25 / 1 x 25	1 x 25 / 1 x 32	1 x 32 / 1 x 32
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) R32 (GWP 675)		6.3 / 4.3	10.6 / 7.2	6.3 / 4.3	10.6 / 7.2	10.6 / 7.2	10.6 / 7.2
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (T) R32 (GWP 675)		31.6 / 21.3	48.9 / 33.0	31.6 / 21.3	50.7 / 34.2	51.6 / 34.8	52.0 / 35.1

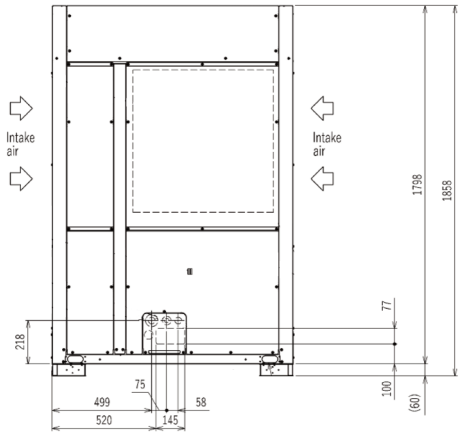
Notes:
ErP Lot 6 calculation method to EN14825. *1 If distance from OU to BC controller is greater than 65m. *2 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

Product Dimensions PURY-EM450/500YXM-A

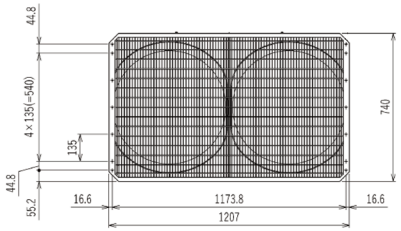
Side View



Front View

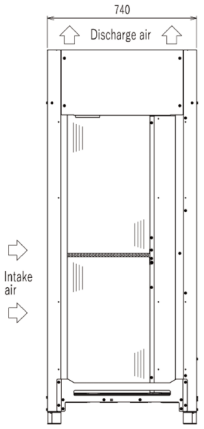


Upper View

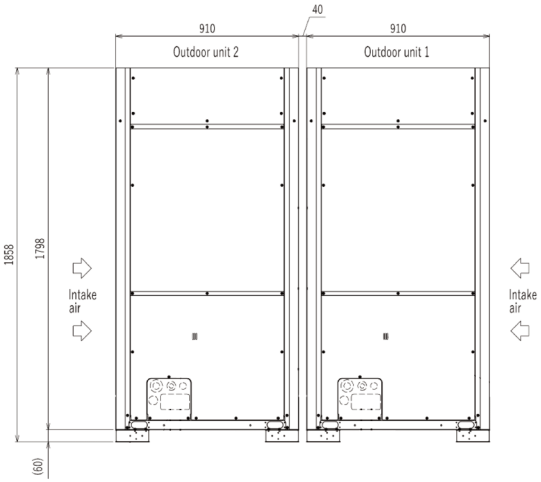


Product Dimensions PURY-EM450/500/550/600YSXM-A

Side View



Front View



R2 Series VRF High Efficiency (73.5-100kW)

Simultaneous Heating and Cooling with Heat Recovery Outdoor Units

CITY MULTI YXM





The **City Multi R2 Series** VRF High Efficiency Heat Recovery system delivers exceptional seasonal energy performance, providing simultaneous heating and cooling while redistributing surplus heat where it's needed. This advanced heat recovery approach can achieve up to 30% energy savings over conventional systems. As the only 2-pipe heat recovery solution on the market, the modular City Multi R2 Series simplifies installation and maintenance while offering complete design lexibility for applications such as hotels, offices, and leisure spaces.

Key Features & Benefits

- Heat Recovery Operation - delivers up to 30% energy savings compared to heat pump systems through advanced heat recovery
- Lower GWP R32 Refrigerant - for reduced carbon impact and future-ready legislation compliance
- Simultaneous Heating & Cooling - meets diverse comfort needs across different zones at the same time for optimal occupant satisfaction
- Unique 2-Pipe System - simplifies installation and maintenance while reducing system complexity
- Ultra-Compact Modular Design - smaller unit footprint allows installation in tight spaces without compromising on performance
- Broad Indoor Unit Compatibility - connects to a wide range of unit types and capacities, making it suitable for varied building applications
- Patented Vertical Flat Tube Heat Exchanger - maximises heat exchange efficiency, reducing energy consumption and run costs
- Reduced Refrigerant Charge - uses less refrigerant than the YXM standard efficiency model, lowering embodied carbon and whole-life carbon impact
- Extended Heating Range (-25°C) - ensures reliable heating even in severe winter conditions by maintaining efficient system operation
- Easy-to-Maintain Safety Feature Options - for reduced onsite time and costs while supporting occupant peace of mind
- Enhanced Defrost Technology - reduces system downtime during defrost cycles, minimising temperature fluctuations and maintaining reliable indoor heating for consistent occupant comfort
- Low Noise Operation - features a 5-step low noise mode that minimises sound levels for quieter surroundings
- 113m Vertical Height Separation - offers generous height allowance between indoor and outdoor units, enabling design flexibility in larger buildings

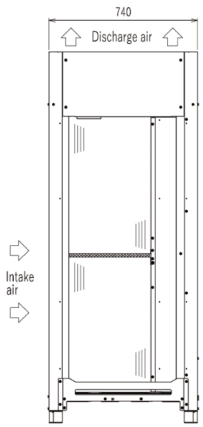
R32

OUTDOOR UNITS		PURY-EM650YSXM-A	PURY-EM700YSXM-A	PURY-EM750YSXM-A	PURY-EM800YSXM-A	PURY-EM850YSXM-A	PURY-EM900YSXM-A
CAPACITY (kW)	Heating (nominal max)	82.5	90.0	95.0	100.0	106.0	112.0
	Cooling (nominal)	73.5	80.0	85.0	90.0	95.0	100.0
	High Performance Heating (UK)	82.5	90.0	95.0	100.0	99.6	105.3
	COP Priority Heating (UK)	79.2	86.4	91.2	96.0	93.3	98.6
	Cooling (UK)	65.8	71.6	76.1	80.1	84.6	89.0
POWER INPUT (kW)	Heating (nominal max)	22.11	25.49	26.98	28.49	31.08	33.83
	Cooling (nominal)	19.65	22.34	24.07	25.93	28.10	30.58
	High Performance Heating (UK)	30.07	34.67	37.50	39.60	36.36	39.58
	COP Priority Heating (UK)	27.20	31.35	33.19	35.04	32.94	35.86
	Cooling (UK)	18.08	20.55	22.14	23.86	25.85	28.13
COP / EER (nominal max)		3.73 / 3.74	3.53 / 3.58	3.52 / 3.53	3.51 / 3.47	3.41 / 3.38	3.31 / 3.27
SCOP / SEER		4.71 / 8.35	4.72 / 8.15	4.64 / 7.97	4.56 / 7.78	4.50 / 7.75	4.45 / 7.69
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 (m^3/min)	High	250 / 200	250 / 250	310 / 250	310 / 310	315 / 310	315 / 315
PIPE SIZE mm (in)	Gas	28.58 (1-1/8")	34.93 (1-3/8")	34.93 (1-3/8")	34.93 (1-3/8")	41.28 (1-5/8")	41.28 (1-5/8")
	Liquid	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) @ 1m	Heating / Cooling	66.0 / 63.0	66.0 / 61.0	67.0 / 63.0	68.0 / 65.0	70.0 / 65.0	72.0 / 66.0
SOUND POWER LEVEL (DBA) @ 100% CAPACITY	Heating / Cooling	86.0 / 83.0	86.0 / 82.0	88.0 / 84.0	90.0 / 86.0	91.0 / 86.0	93.0 / 87.0
SOUND POWER LEVEL (DBA) @ 90% CAPACITY	Heating / Cooling	86.1 / 77.1	87.0 / 78.0	88.7 / 81.7	90.0 / 83.0	90.0 / 80.0	90.0 / 84.0
SOUND POWER LEVEL (DBA) @ 75% CAPACITY	Heating / Cooling	81.0 / 75.0	81.0 / 75.0	83.4 / 77.4	85.0 / 79.0	85.5 / 79.5	86.0 / 80.0
WEIGHT (kg)		312 + 273	250 + 250	317 + 312	317 + 317	317 + 317	317 + 317
DIMENSIONS (mm)	Width	910 + 1207	1207 + 1207	1207 + 1207	1207 + 1207	1207 + 1207	1207 + 1207
	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
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]	35.4 / 31.5 [26.5 + 27.2]	40.8 / 35.8 [27.2 + 27.2]	43.2 / 38.6 [27.2 + 30.2]	45.6 / 41.5 [30.2 + 30.2]	49.8 / 45.0 [30.2 + 30.2]	54.2 / 49.0 [30.2 + 30.2]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -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 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
CHARGE REFRIGERANT (KG) / CO_2 EQUIVALENT (T) R32 (GWP 675)		11.6 / 7.8	12.6 / 8.5	12.6 / 8.5	12.6 / 8.5	12.6 / 8.5	12.6 / 8.5
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (T) R32 (GWP 675)		51.0 / 34.4	50.2 / 33.9	50.2 / 33.9	51.3 / 34.6	51.4 / 34.7	51.9 / 35.0

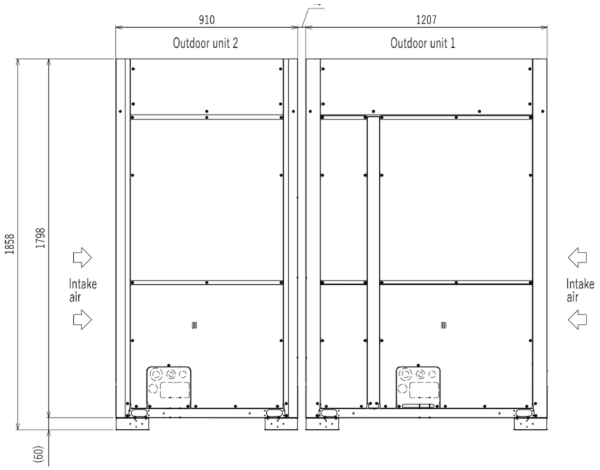
Notes:
ErP Lot 6 calculation method to EN14825.
*1 A separate power supply is required for each module.
Where more than one figure is quoted there are multiple modules.

Product Dimensions PURY-EM650YSXM-A

Side View

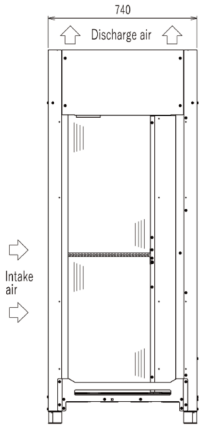


Front View

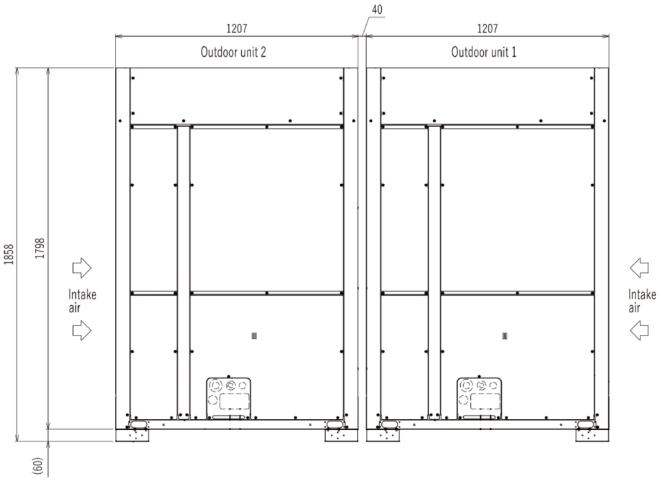


Product Dimensions PURY-EM700/750/800/850/900YSXM-A

Side View



Front View



R2 Series VRF High Efficiency (106-112kW)

Simultaneous Heating and Cooling with Heat Recovery Outdoor Units

CITY MULTI YXM



The **City Multi R2 Series** VRF High Efficiency Heat Recovery system delivers exceptional seasonal energy performance, providing simultaneous heating and cooling while redistributing surplus heat where it's needed. This advanced heat recovery approach can achieve up to 30% energy savings over conventional systems. As the only 2-pipe heat recovery solution on the market, the modular City Multi R2 Series simplifies installation and maintenance while offering complete design lexibility for applications such as hotels, offices, and leisure spaces.

Key Features & Benefits

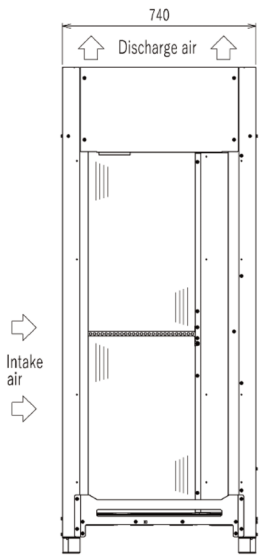
- Heat Recovery Operation - delivers up to 30% energy savings compared to heat pump systems through advanced heat recovery
- Lower GWP R32 Refrigerant - for reduced carbon impact and future-ready legislation compliance
- Simultaneous Heating & Cooling - meets diverse comfort needs across different zones at the same time for optimal occupant satisfaction
- Unique 2-Pipe System - simplifies installation and maintenance while reducing system complexity
- Ultra-Compact Modular Design - smaller unit footprint allows installation in tight spaces without compromising on performance
- Broad Indoor Unit Compatibility - connects to a wide range of unit types and capacities, making it suitable for varied building applications
- Patented Vertical Flat Tube Heat Exchanger - maximises heat exchange efficiency, reducing energy consumption and run costs
- Reduced Refrigerant Charge - uses less refrigerant than the YXM standard efficiency model, lowering embodied carbon and whole-life carbon impact
- Extended Heating Range (-25°C) - ensures reliable heating even in severe winter conditions by maintaining efficient system operation
- Easy-to-Maintain Safety Feature Options - for reduced onsite time and costs while supporting occupant peace of mind
- Enhanced Defrost Technology - reduces system downtime during defrost cycles, minimising temperature fluctuations and maintaining reliable indoor heating for consistent occupant comfort
- Low Noise Operation - features a 5-step low noise mode that minimises sound levels for quieter surroundings
- 113m Vertical Height Separation - offers generous height allowance between indoor and outdoor units, enabling design flexibility in larger buildings

R32

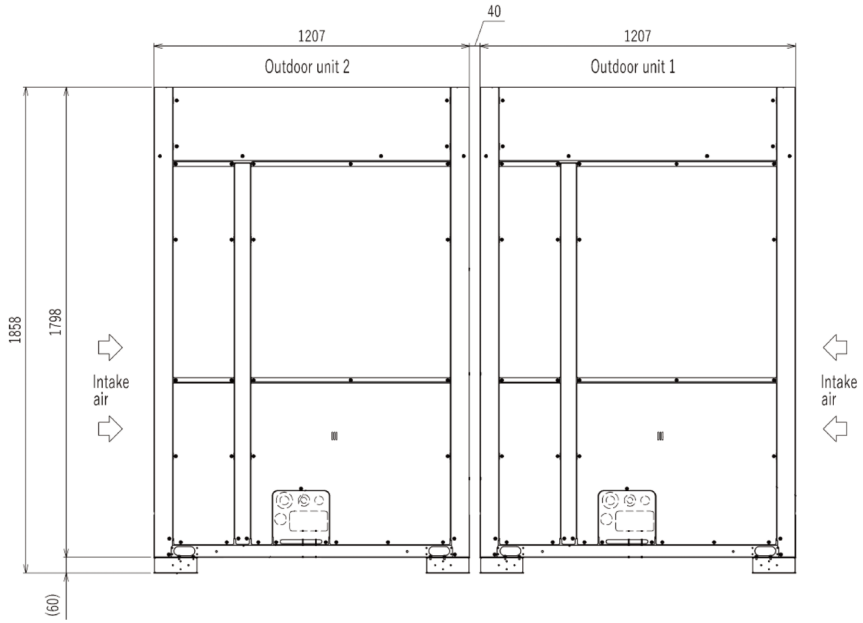
OUTDOOR UNITS		PURY-EM950YSXM-A	PURY-EM1000YSXM-A
CAPACITY (kW)	Heating (nominal max)	114.0	116.0
	Cooling (nominal)	106.0	112.0
	High Performance Heating (UK)	106.0	107.9
	COP Priority Heating (UK)	100.3	102.1
	Cooling (UK)	94.3	99.7
POWER INPUT (kW)	Heating (nominal max)	34.65	35.58
	Cooling (nominal)	33.22	35.89
	High Performance Heating (UK)	40.54	41.63
	COP Priority Heating (UK)	36.73	37.71
	Cooling (UK)	30.56	33.02
COP / EER (nominal max)		3.29 / 3.19	3.26 / 3.12
SCOP / SEER		4.40 / 7.44	4.35 / 7.20
MAX NO. OF CONNECTABLE INDOOR UNITS		50	50
MAX CONNECTABLE CAPACITY		50~150% OU Capacity	50~150% OU Capacity
AIRFLOW (m^3/min)	High	315 / 315	315 / 315
PIPE SIZE mm (in)	Gas	41.28 (1-5/8")	41.28 (1-5/8")
	Liquid	28.58 (1-1/8")	28.58 (1-1/8")
SOUND PRESSURE LEVEL (DBA) @ 1m	Heating / Cooling	72.0 / 69.0	72.0 / 71.0
SOUND POWER LEVEL (DBA) @ 100% CAPACITY	Heating / Cooling	94.0 / 89.0	95.0 / 91.0
SOUND POWER LEVEL (DBA) @ 90% CAPACITY	Heating / Cooling	90.5 / 87.5	91.0 / 88.0
SOUND POWER LEVEL (DBA) @ 75% CAPACITY	Heating / Cooling	86.5 / 83.5	87.0 / 84.0
WEIGHT (kg)		317 + 317	317 + 317
DIMENSIONS (mm)	Width	1207 + 1207	1207 + 1207
	Depth	740	740
(1798mm without legs)	Height	1858	1858
ELECTRICAL SUPPLY*1		380-415v, 50Hz	380-415v, 50Hz
PHASE*1		Three	Three
STARTING CURRENT (A)*1		8	8
NOMINAL SYSTEM RUNNING CURRENT (A)*1	Heating / Cooling [MAX]	55.5 / 53.2 [30.2 + 33.3]	57.0 / 57.5 [33.3 + 33.3]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling	-25~15.5 / -5~52	-25~15.5 / -5~52
FUSE RATING (MCB SIZES BS EN 60947-2) - (A)*1		1 x 32 / 1 x 40	1 x 40 / 1 x 40
MAINS CABLE NO. CORES*1		4 + earth / 4 + earth	4 + earth / 4 + earth
CHARGE REFRIGERANT (KG) / CO_2 EQUIVALENT (T) R32 (GWP 675)		12.6 / 8.5	12.6 / 8.5
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (T) R32 (GWP 675)		52.5 / 35.4	52.7 / 35.6

Notes:
ErP Lot 6 calculation method to EN14825.
*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



R2 Series VRF Standard Efficiency (22.4-45kW)

Simultaneous Heating and Cooling with Heat Recovery Outdoor Units

CITY MULTI YXM





Notes:
ErP Lot 6 calculation method to EN14825.
*1 A separate power supply is required for each module.
Where more than one figure is quoted there are multiple modules.

Many buildings require heating and cooling simultaneously, even between adjacent rooms. The **City Multi R2 Series** VRF Heat Recovery system efficiently redistributes surplus heat where it's needed, delivering up to 30% energy savings over conventional systems. As the only 2-pipe heat recovery solution on the market, the modular City Multi R2 Series simplifies installation and maintenance while offering complete design flexibility for applications such as hotels, offices, and leisure spaces.

Key Features & Benefits

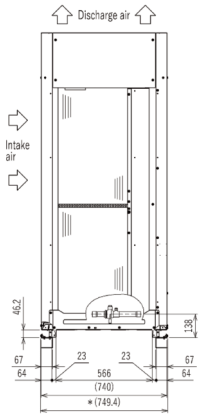
- Heat Recovery Operation - delivers up to 30% energy savings compared to heat pump systems through advanced heat recovery
- Lower GWP R32 Refrigerant - for reduced carbon impact and future-ready legislation compliance
- Simultaneous Heating & Cooling - meets diverse comfort needs across different zones at the same time for optimal occupant satisfaction
- Unique 2-Pipe System - simplifies installation and maintenance while reducing system complexity
- Ultra-Compact Modular Design - smaller unit footprint allows installation in tight spaces without compromising on performance
- Broad Indoor Unit Compatibility - connects to a wide range of unit types and capacities, making it suitable for varied building applications
- Extended Heating Range (-25°C) - ensures reliable heating even in severe winter conditions by maintaining efficient system operation
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- Low Noise Operation - features a 5-step low noise mode that minimises sound levels for quieter surroundings
- 113m Vertical Height Separation - offers generous height allowance between indoor and outdoor units, enabling design flexibility in larger buildings

R32

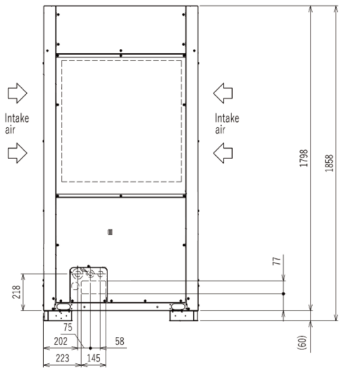
OUTDOOR UNITS		PURY-M200YXM-A	PURY-M250YXM-A	PURY-M300YXM-A	PURY-M350YXM-A	PURY-M400YXM-A	PURY-M400YSXM-A
CAPACITY (kW)	Heating (nominal max)	25.0	31.5	37.5	45.0	50.0	50.0
	Cooling (nominal)	22.4	28.0	33.5	40.0	45.0	44.8
	High Performance Heating (UK)	25.0	31.5	35.6	45.0	50.0	50.0
	COP Priority Heating (UK)	23.8	29.9	35.6	42.8	47.5	47.5
	Cooling (UK)	20.0	25.1	30.0	35.8	40.1	40.1
POWER INPUT (kW)	Heating (nominal max)	5.65	7.79	9.61	12.64	14.04	11.68
	Cooling (nominal)	5.53	7.79	9.43	11.62	13.39	11.17
	High Performance Heating (UK)	7.46	10.59	13.26	17.19	19.52	15.42
	COP Priority Heating (UK)	6.81	9.39	11.58	15.17	17.55	14.07
	Cooling (UK)	5.03	6.93	8.39	10.57	12.18	10.16
COP / EER (nominal max)		4.42 / 4.05	4.04 / 3.59	3.90 / 3.55	3.56 / 3.44	3.56 / 3.36	4.28 / 4.01
SCOP / SEER		4.69 / 7.72	4.66 / 7.37	4.66 / 7.66	4.71 / 7.89	4.56 / 7.53	4.69 / 7.67
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 (m^3/min)	High	170	180	235	220	260	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	57.5 / 56.0	58.0 / 56.0	63.5 / 60.5	63.0 / 57.5	64.0 / 61.0	61.0 / 60.0
SOUND POWER LEVEL (DBA) @ 100% CAPACITY	Heating / Cooling	78.0 / 75.0	79.0 / 78.0	83.0 / 80.0	82.0 / 78.0	86.0 / 82.0	82.0 / 79.0
SOUND POWER LEVEL (DBA) @ 90% CAPACITY	Heating / Cooling	77.0 / 72.0	81.0 / 74.0	84.0 / 78.0	83.0 / 78.0	87.0 / 78.0	80.0 / 75.0
SOUND POWER LEVEL (DBA) @ 75% CAPACITY	Heating / Cooling	72.0 / 67.0	76.0 / 70.0	80.0 / 72.0	80.0 / 76.0	82.0 / 77.0	75.0 / 70.0
WEIGHT (kg)		265	265	266	322	327	265 + 265
DIMENSIONS (mm)	Width	910	910	910	1207	1207	910 + 910
	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
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]	9.0 / 8.8 [21.4]	12.4 / 12.4 [21.4]	15.4 / 15.1 [26.5]	20.2 / 18.6 [27.3]	22.5 / 21.4 [30.4]	18.7 / 17.9 [21.4 + 21.4]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52
FUSE RATING (MCB SIZES BS EN 60947-2) - (A)*1		1 x 25	1 x 25	1 x 32	1 x 32	1 x 40	1 x 25 / 1 x 25
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) R32 (GWP 675)		8.0 / 5.4	8.0 / 5.4	8.0 / 5.4	9.3 / 6.3	9.3 / 6.3	16.0 / 10.8
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (T) R32 (GWP 675)		23.0 / 15.5	27.4 / 18.5	28.3 / 19.1	27.9 / 18.8	28.6 / 19.3	42.6 / 28.8

Product Dimensions PURY-EM200/250/300YXM-A

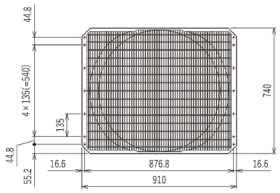
Side View



Front View

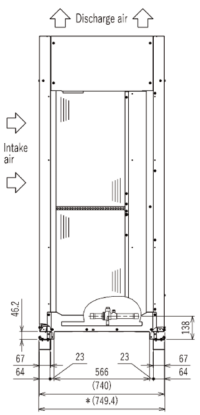


Upper View

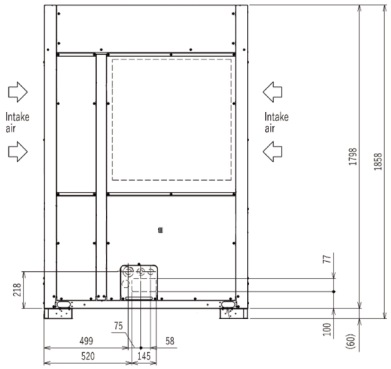


Product Dimensions PURY-M350/400YXM-A

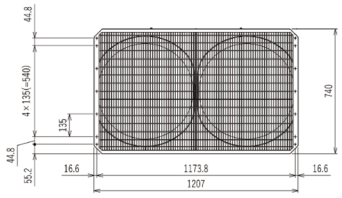
Side View



Front View

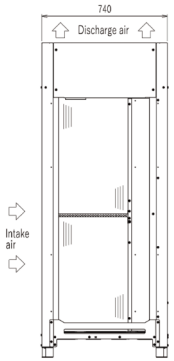


Upper View

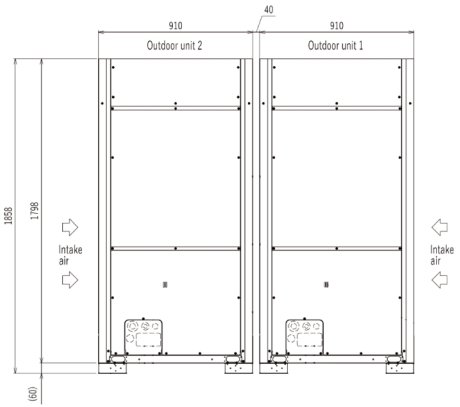


Product Dimensions PURY-M400YSXM-A

Side View



Front View



R2 Series VRF Standard Efficiency (50-67kW)

Simultaneous Heating and Cooling with Heat Recovery Outdoor Units

CITY MULTI YXM





Many buildings require heating and cooling simultaneously, even between adjacent rooms. The **City Multi R2 Series** VRF Heat Recovery system efficiently redistributes surplus heat where it's needed, delivering up to 30% energy savings over conventional systems. As the only 2-pipe heat recovery solution on the market, the modular City Multi R2 Series simplifies installation and maintenance while offering complete design flexibility for applications such as hotels, offices, and leisure spaces.

Key Features & Benefits

- Heat Recovery Operation - delivers up to 30% energy savings compared to heat pump systems through advanced heat recovery
- Lower GWP R32 Refrigerant - for reduced carbon impact and future-ready legislation compliance
- Simultaneous Heating & Cooling - meets diverse comfort needs across different zones at the same time for optimal occupant satisfaction
- Unique 2-Pipe System - simplifies installation and maintenance while reducing system complexity
- Ultra-Compact Modular Design - smaller unit footprint allows installation in tight spaces without compromising on performance
- Broad Indoor Unit Compatibility - connects to a wide range of unit types and capacities, making it suitable for varied building applications
- Extended Heating Range (-25°C) - ensures reliable heating even in severe winter conditions by maintaining efficient system operation
- Easy-to-Maintain Safety Feature Options - for reduced onsite time and costs while supporting occupant peace of mind
- Enhanced Defrost Technology - reduces system downtime during defrost cycles, minimising temperature fluctuations and maintaining reliable indoor heating for consistent occupant comfort
- Low Noise Operation - features a 5-step low noise mode that minimises sound levels for quieter surroundings
- 113m Vertical Height Separation - offers generous height allowance between indoor and outdoor units, enabling design flexibility in larger buildings

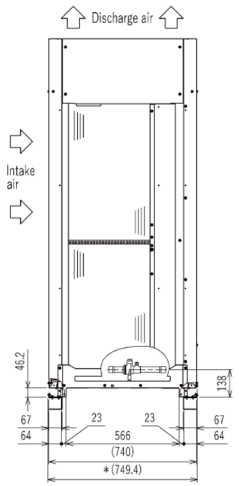
R32

OUTDOOR UNITS		PURY-M450YXM-A	PURY-M450YSXM-A	PURY-M500YXM-A	PURY-M500YSXM-A	PURY-M550YSXM-A	PURY-M600YSXM-A
CAPACITY (kW)	Heating (nominal max)	56.0	56.5	58.0	63.0	69.0	75.0
	Cooling (nominal)	50.0	50.4	56.0	56.0	61.5	67.0
	High Performance Heating (UK)	52.1	56.5	53.9	63.0	69.0	75.0
	COP Priority Heating (UK)	49.3	53.7	51.0	59.9	65.6	71.3
	Cooling (UK)	44.8	45.1	49.8	50.1	55.0	60.0
POWER INPUT (kW)	Heating (nominal max)	16.66	13.78	17.41	16.11	17.92	19.84
	Cooling (nominal)	15.47	13.44	19.71	16.00	17.67	19.36
	High Performance Heating (UK)	19.49	18.74	20.37	21.91	24.73	27.38
	COP Priority Heating (UK)	17.66	16.60	18.45	19.41	21.59	23.91
	Cooling (UK)	14.08	11.96	17.94	14.24	15.73	17.23
COP / EER (nominal max)		3.36 / 3.23	4.10 / 3.75	3.33 / 2.84	3.91 / 3.50	3.85 / 3.48	3.78 / 3.46
SCOP / SEER		4.45 / 7.43	4.67 / 7.47	4.35 / 7.00	4.66 / 7.39	4.66 / 7.40	4.66 / 7.54
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 (m^3/min)	High	300	180 / 170	305	180 / 180	235 / 180	235 / 235
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	68.0 / 63.0	61.0 / 60.0	69.5 / 67.5	62.0 / 60.0	65.0 / 62.0	67.0 / 64.0
SOUND POWER LEVEL (DBA) @ 100% CAPACITY	Heating / Cooling	89.0 / 83.0	82.0 / 80.0	91.0 / 87.0	83.0 / 82.0	85.0 / 83.0	87.0 / 84.0
SOUND POWER LEVEL (DBA) @ 90% CAPACITY	Heating / Cooling	89.0 / 79.0	82.4 / 76.1	89.0 / 84.0	84.0 / 77.0	85.5 / 79.4	85.5 / 79.4
SOUND POWER LEVEL (DBA) @ 75% CAPACITY	Heating / Cooling	84.0 / 76.0	77.4 / 71.7	85.0 / 78.0	79.0 / 73.0	81.4 / 74.1	83.0 / 75.0
WEIGHT (kg)		327	265 + 265	327	265 + 265	266 + 265	266 + 266
DIMENSIONS (mm)	Width	1207	910 + 910	1207	910 + 910	910 + 910	910 + 910
	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]	26.7 / 24.8 [30.4]	22.0 / 21.5 [21.4 + 21.4]	27.9 / 31.6 [33.4]	25.8 / 25.6 [21.4 + 21.4]	28.7 / 28.3 [21.4 + 26.5]	31.8 / 31.0 [26.5 + 26.5]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52
FUSE RATING (MCB SIZES BS EN 60947-2) - (A)*2		1 x 40	1 x 25 / 1 x 25	1 x 40	1 x 25 / 1 x 25	1 x 25 / 1 x 32	1 x 32 / 1 x 32
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) R32 (GWP 675)		9.3 / 6.3	16.0 / 10.8	9.3 / 6.3	16.0 / 10.8	16.0 / 10.8	16.0 / 10.8
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (T) R32 (GWP 675)		28.6 / 19.3	43.5 / 29.4	28.6 / 19.3	45.3 / 30.6	46.2 / 31.2	46.6 / 31.5

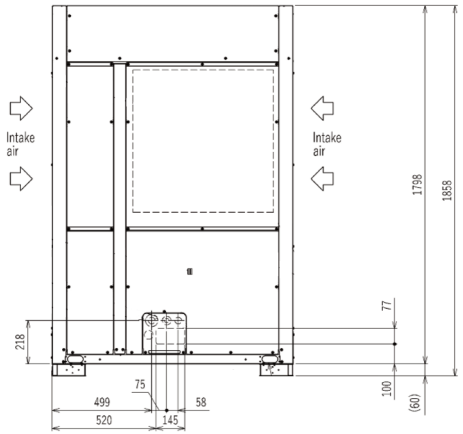
Notes:
ErP Lot 6 calculation method to EN14825. *1 If distance from OU to BC controller is greater than 65m. *2 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

Product Dimensions PURY-M450/500YXM-A

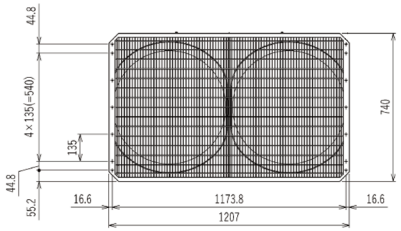
Side View



Front View

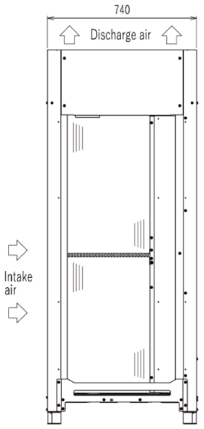


Upper View

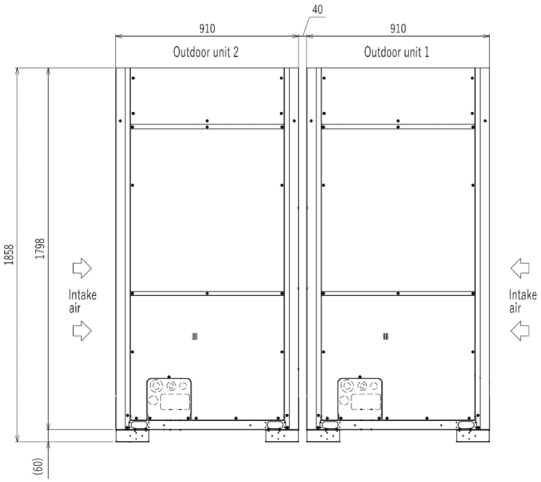


Product Dimensions PURY-M450/500/550/600YSXM-A

Side View



Front View



R2 Series VRF Standard Efficiency (73.5-100kW)

Simultaneous Heating and Cooling with Heat Recovery Outdoor Units





Many buildings require heating and cooling simultaneously, even between adjacent rooms. The **City Multi R2 Series** VRF Heat Recovery system efficiently redistributes surplus heat where it's needed, delivering up to 30% energy savings over conventional systems. As the only 2-pipe heat recovery solution on the market, the modular City Multi R2 Series simplifies installation and maintenance while offering complete design flexibility for applications such as hotels, offices, and leisure spaces.

Key Features & Benefits

- Heat Recovery Operation - delivers up to 30% energy savings compared to heat pump systems through advanced heat recovery
- Lower GWP R32 Refrigerant - for reduced carbon impact and future-ready legislation compliance
- Simultaneous Heating & Cooling - meets diverse comfort needs across different zones at the same time for optimal occupant satisfaction
- Unique 2-Pipe System - simplifies installation and maintenance while reducing system complexity
- Ultra-Compact Modular Design - smaller unit footprint allows installation in tight spaces without compromising on performance
- Broad Indoor Unit Compatibility - connects to a wide range of unit types and capacities, making it suitable for varied building applications
- Extended Heating Range (-25°C) - ensures reliable heating even in severe winter conditions by maintaining efficient system operation
- Easy-to-Maintain Safety Feature Options - for reduced onsite time and costs while supporting occupant peace of mind
- Enhanced Defrost Technology - reduces system downtime during defrost cycles, minimising temperature fluctuations and maintaining reliable indoor heating for consistent occupant comfort
- Low Noise Operation - features a 5-step low noise mode that minimises sound levels for quieter surroundings
- 113m Vertical Height Separation - offers generous height allowance between indoor and outdoor units, enabling design flexibility in larger buildings

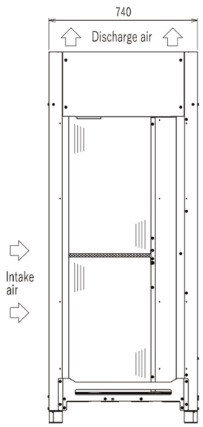
R32

OUTDOOR UNITS		PURY-M650YSXM-A	PURY-M700YSXM-A	PURY-M750YSXM-A	PURY-M800YSXM-A	PURY-M850YSXM-A	PURY-M900YSXM-A
CAPACITY (kW)	Heating (nominal max)	82.5	90.0	95.0	100.0	106.0	112.0
	Cooling (nominal)	73.5	80.0	85.0	90.0	95.0	100.0
	High Performance Heating (UK)	82.5	90.0	95.0	100.0	98.6	104.2
	COP Priority Heating (UK)	78.4	85.5	90.3	95.0	93.3	98.6
	Cooling (UK)	65.8	71.6	76.1	80.1	84.6	89.0
POWER INPUT (kW)	Heating (nominal max)	22.85	26.08	27.53	28.98	31.64	34.46
	Cooling (nominal)	21.87	23.80	25.67	27.60	29.59	31.94
	High Performance Heating (UK)	30.85	35.21	38.27	40.28	37.65	40.32
	COP Priority Heating (UK)	28.11	32.08	33.86	35.65	33.38	36.36
	Cooling (UK)	19.90	21.66	23.36	25.12	26.93	29.07
COP / EER (nominal max)		3.61 / 3.36	3.45 / 3.36	3.45 / 3.31	3.45 / 3.26	3.35 / 3.21	3.25 / 3.13
SCOP / SEER		4.68 / 7.60	4.71 / 7.78	4.63 / 7.59	4.56 / 7.40	4.50 / 7.36	4.45 / 7.30
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 (m^3/min)	High	220 / 235	220 / 220	260 / 220	260 / 260	300 / 260	300 / 300
PIPE SIZE mm (in)	Gas	28.58 (1-1/8")	34.93 (1-3/8")	34.93 (1-3/8")	34.93 (1-3/8")	41.28 (1-5/8")	41.28 (1-5/8")
	Liquid	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) @ 1m	Heating / Cooling	67.0 / 63.0	67.0 / 61.0	67.0 / 63.0	68.0 / 65.0	70.0 / 66.0	72.0 / 67.0
SOUND POWER LEVEL (DBA) @ 100% CAPACITY	Heating / Cooling	86.0 / 83.0	86.0 / 82.0	88.0 / 84.0	90.0 / 86.0	91.0 / 86.0	93.0 / 87.0
SOUND POWER LEVEL (DBA) @ 90% CAPACITY	Heating / Cooling	85.5 / 81.0	86.0 / 81.0	88.4 / 81.0	90.0 / 81.0	91.1 / 78.5	92.0 / 82.0
SOUND POWER LEVEL (DBA) @ 75% CAPACITY	Heating / Cooling	83.0 / 77.4	83.0 / 79.0	84.1 / 79.5	85.0 / 80.0	86.1 / 78.5	87.0 / 79.0
WEIGHT (kg)		322 + 266	322 + 322	327 + 322	327 + 327	327 + 327	327 + 327
DIMENSIONS (mm)	Width	910 + 1207	1207 + 1207	1207 + 1207	1207 + 1207	1207 + 1207	1207 + 1207
	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
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]	36.6 / 35.0 [26.5 + 27.3]	41.8 / 38.1 [27.3 + 27.3]	44.1 / 41.1 [27.3 + 30.4]	46.4 / 44.2 [30.4 + 30.4]	50.7 / 47.4 [30.4 + 30.4]	55.2 / 51.2 [30.4 + 30.4]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -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 40	1 x 40 / 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
CHARGE REFRIGERANT (KG) / CO_2 EQUIVALENT (T) R32 (GWP 675)		17.3 / 11.7	18.6 / 12.6	18.6 / 12.6	18.6 / 12.6	18.6 / 12.6	18.6 / 12.6
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (T) R32 (GWP 675)		45.3 / 30.6	44.2 / 29.8	44.2 / 29.8	45.3 / 30.6	45.4 / 30.6	45.9 / 31.0

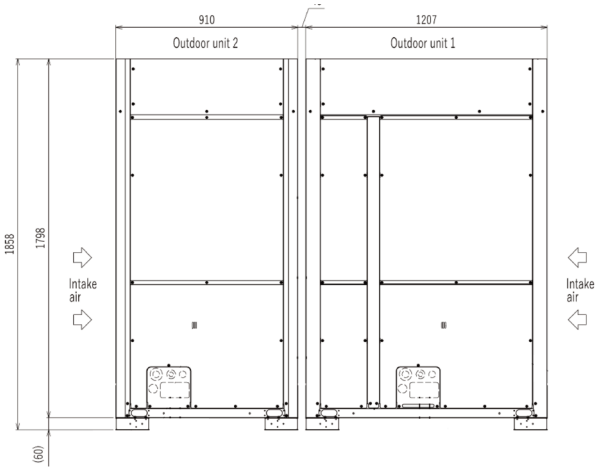
Notes:
ErP Lot 6 calculation method to EN14825.
*1 A separate power supply is required for each module.
Where more than one figure is quoted there are multiple modules.

Product Dimensions PURY-M650YSXM-A

Side View

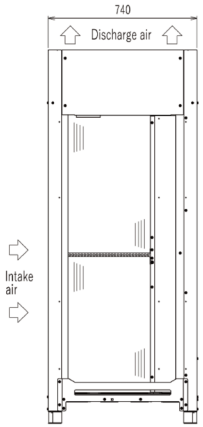


Front View

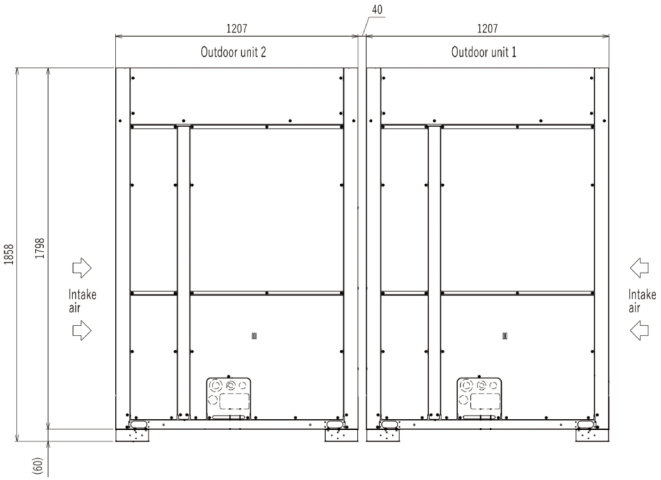


Product Dimensions PURY-M700/750/800/850/900YSXM-A

Side View



Front View



R2 Series VRF Standard Efficiency (106-112kW)

Simultaneous Heating and Cooling with Heat Recovery Outdoor Units

CITY MULTI YXM



Many buildings require heating and cooling simultaneously, even between adjacent rooms. The **City Multi R2 Series** VRF Heat Recovery system efficiently redistributes surplus heat where it's needed, delivering up to 30% energy savings over conventional systems. As the only 2-pipe heat recovery solution on the market, the modular City Multi R2 Series simplifies installation and maintenance while offering complete design flexibility for applications such as hotels, offices, and leisure spaces.

Key Features & Benefits

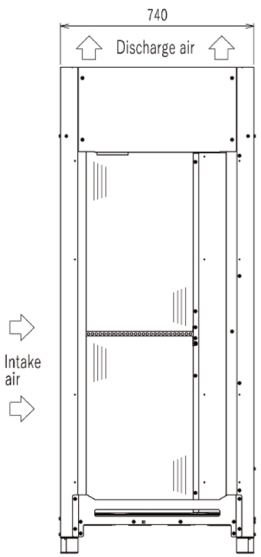
- Heat Recovery Operation - delivers up to 30% energy savings compared to heat pump systems through advanced heat recovery
- Lower GWP R32 Refrigerant - for reduced carbon impact and future-ready legislation compliance
- Simultaneous Heating & Cooling - meets diverse comfort needs across different zones at the same time for optimal occupant satisfaction
- Unique 2-Pipe System - simplifies installation and maintenance while reducing system complexity
- Ultra-Compact Modular Design - smaller unit footprint allows installation in tight spaces without compromising on performance
- Broad Indoor Unit Compatibility - connects to a wide range of unit types and capacities, making it suitable for varied building applications
- Extended Heating Range (-25°C) - ensures reliable heating even in severe winter conditions by maintaining efficient system operation
- Easy-to-Maintain Safety Feature Options - for reduced onsite time and costs while supporting occupant peace of mind
- Enhanced Defrost Technology - reduces system downtime during defrost cycles, minimising temperature fluctuations and maintaining reliable indoor heating for consistent occupant comfort
- Low Noise Operation - features a 5-step low noise mode that minimises sound levels for quieter surroundings
- 113m Vertical Height Separation - offers generous height allowance between indoor and outdoor units, enabling design flexibility in larger buildings

R32

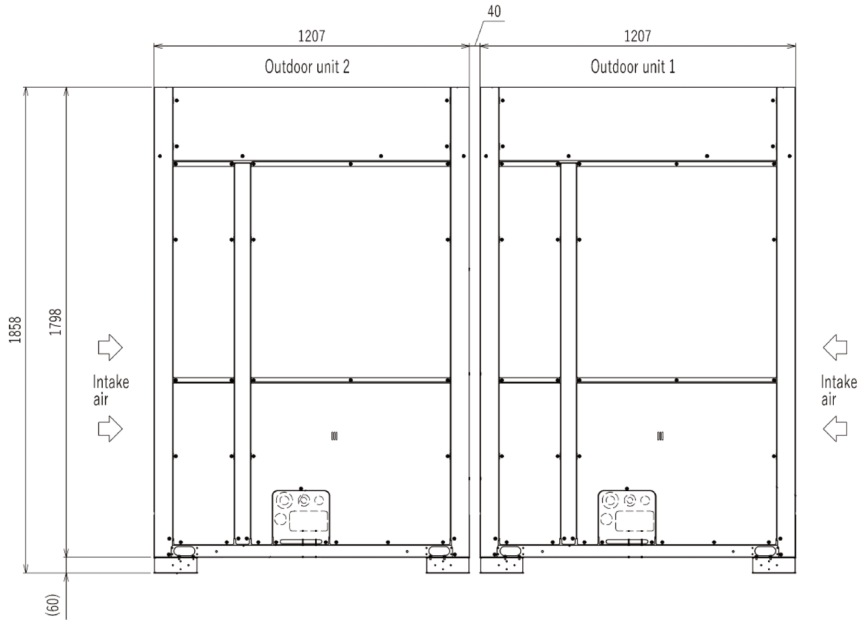
OUTDOOR UNITS		PURY-M950YSXM-A	PURY-M1000YSXM-A
CAPACITY (kW)	Heating (nominal max)	114.0	116.0
	Cooling (nominal)	106.0	112.0
	High Performance Heating (UK)	106.0	107.9
	COP Priority Heating (UK)	100.3	102.1
	Cooling (UK)	94.3	99.7
POWER INPUT (kW)	Heating (nominal max)	35.18	35.91
	Cooling (nominal)	36.05	40.87
	High Performance Heating (UK)	39.93	41.00
	COP Priority Heating (UK)	36.18	37.14
	Cooling (UK)	32.07	36.03
COP / EER (nominal max)		3.24 / 2.94	3.23 / 2.74
SCOP / SEER		4.40 / 7.08	4.35 / 6.86
MAX NO. OF CONNECTABLE INDOOR UNITS		50	50
MAX CONNECTABLE CAPACITY		50~150% OU Capacity	50~150% OU Capacity
AIRFLOW (m^3/min)	High	305 / 300	305 / 305
PIPE SIZE mm (in)	Gas	41.28 (1-5/8")	41.28 (1-5/8")
	Liquid	28.58 (1-1/8")	28.58 (1-1/8")
SOUND PRESSURE LEVEL (DBA) @ 1m	Heating / Cooling	72.0 / 69.0	73.0 / 71.0
SOUND POWER LEVEL (DBA) @ 100% CAPACITY	Heating / Cooling	94.0 / 89.0	95.0 / 91.0
SOUND POWER LEVEL (DBA) @ 90% CAPACITY	Heating / Cooling	92.0 / 85.2	92.0 / 87.0
SOUND POWER LEVEL (DBA) @ 75% CAPACITY	Heating / Cooling	87.5 / 80.1	88.0 / 81.0
WEIGHT (kg)		327 + 327	327 + 327
DIMENSIONS (mm)	Width	1207 + 1207	1207 + 1207
	Depth	740	740
(1798mm without legs)	Height	1858	1858
ELECTRICAL SUPPLY*1		380-415v, 50Hz	380-415v, 50Hz
PHASE*1		Three	Three
STARTING CURRENT (A)*1		8	8
NOMINAL SYSTEM RUNNING CURRENT (A)*1	Heating / Cooling [MAX]	56.4 / 57.8 [30.4 + 33.4]	57.5 / 65.5 [33.4 + 33.4]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling	-25~15.5 / -5~52	-25~15.5 / -5~52
FUSE RATING (MCB SIZES BS EN 60947-2) - (A)*1		1 x 32 / 1 x 40	1 x 40 / 1 x 40
MAINS CABLE NO. CORES*1		4 + earth / 4 + earth	4 + earth / 4 + earth
CHARGE REFRIGERANT (KG) / CO_2 EQUIVALENT (T) R32 (GWP 675)		18.6 / 12.6	18.6 / 12.6
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (T) R32 (GWP 675)		35.5 / 24.0	35.5 / 24.0

Notes:
ErP Lot 6 calculation method to EN14825.
*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 VRF (22.4-45kW)

Heat Pump Outdoor Units (Heating or Cooling)

CITY MULTI YXM

The **City Multi Y Series** VRF Heat Pump systems provide a simple and flexible solution where heating or cooling is required across all or selected indoor units at any given time. With a modular outdoor unit design, the system offers complete design freedom and is well suited to applications such as open-plan offices, call centres, and retail spaces.

Key Features & Benefits

- Energy Efficient Heat Pump Operation - delivers effective heating or cooling to internal spaces, supporting a simple and flexible system design
- Lower GWP R32 Refrigerant - for reduced carbon impact and future-ready legislation compliance
- Ultra-Compact Modular Design - smaller unit footprint allows installation in tight spaces without compromising on performance
- Broad Indoor Unit Compatibility - connects to a wide range of unit types and capacities, making it suitable for varied building applications
- Extended Heating Range (-25°C) - ensures reliable heating even in severe winter conditions by maintaining efficient system operation
- Easy-to-Maintain Safety Feature Options - for reduced onsite time and costs while supporting occupant peace of mind
- Low Noise Operation - features a 5-step low noise mode that minimises sound levels for quieter surroundings
- 113m Vertical Height Separation - offers generous height allowance between indoor and outdoor units, enabling design flexibility in larger buildings

R32





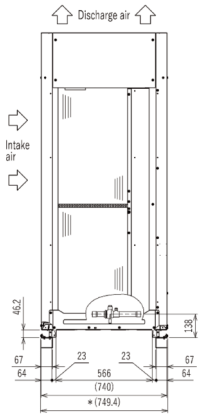


OUTDOOR UNITS		PUHY-M200YXM-A	PUHY-M250YXM-A	PUHY-M300YXM-A	PUHY-M350YXM-A	PUHY-M400YXM-A	PUHY-M400YSXM-A
CAPACITY (kW)	Heating (nominal max)	25.0	31.5	37.5	45.0	50.0	50.0
	Cooling (nominal)	22.4	28.0	33.5	40.0	45.0	44.8
	High Performance Heating (UK)	25.0	31.5	37.5	45.0	50.0	50.0
	COP Priority Heating (UK)	24.0	30.2	36.0	43.2	48.0	48.0
	Cooling (UK)	20.0	25.1	30.0	35.8	40.1	40.1
POWER INPUT (kW)	Heating (nominal max)	5.48	7.48	9.19	12.19	13.51	11.31
	Cooling (nominal)	5.47	7.69	9.25	11.46	13.04	11.14
	High Performance Heating (UK)	7.23	10.17	12.87	16.58	18.78	14.93
	COP Priority Heating (UK)	6.62	9.04	11.03	14.99	16.64	13.57
	Cooling (UK)	4.98	6.84	8.23	10.54	12.00	10.14
COP / EER (nominal max)		4.56 / 4.09	4.21 / 3.64	4.08 / 3.62	3.69 / 3.49	3.70 / 3.45	4.42 / 4.02
SCOP / SEER		4.75 / 7.72	4.75 / 7.40	4.76 / 7.72	4.76 / 7.96	4.59 / 7.59	4.75 / 7.64
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 (m^3/min)	High	170	180	235	220	260	170 / 170
PIPE SIZE mm (in)	Gas	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")
	Liquid	9.52 (3/8")	9.52 (3/8")*2	9.52 (3/8")*2	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")
SOUND PRESSURE LEVEL (DBA)	Heating / Cooling	57.5 / 56.0	58.0 / 56.0	63.5 / 60.5	63.0 / 57.5	64.0 / 61.0	61.0 / 60.0
SOUND POWER LEVEL (DBA	Heating / Cooling	78.0 / 75.0	79.0 / 78.0	83.0 / 80.0	82.0 / 78.0	86.0 / 82.0	82.0 / 79.0
WEIGHT (kg)		262	262	263	319	324	262 + 262
DIMENSIONS (mm)	Width	910	910	910	1207	1207	910 + 910
	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
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]	8.7 / 8.7 [21.4]	11.9 / 12.3 [21.4]	14.7 / 14.8 [26.5]	19.5 / 18.3 [27.3]	21.6 / 20.9 [30.4]	18.1 / 17.8 [21.4 + 21.4]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52
FUSE RATING (MCB SIZES BS EN 60947-2) - (A)*1		1 x 25	1 x 25	1 x 32	1 x 32	1 x 32	1 x 25 / 1 x 25
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) R32 (GWP 675)		8.0 / 5.4	8.0 / 5.4	8.0 / 5.4	9.3 / 6.3	9.3 / 6.3	16.0 / 10.8
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (T) R32 (GWP 675)		18.5 / 12.5	24.5 / 16.5	24.5 / 16.5	25.4 / 17.1	25.4 / 17.1	27.6 / 18.6

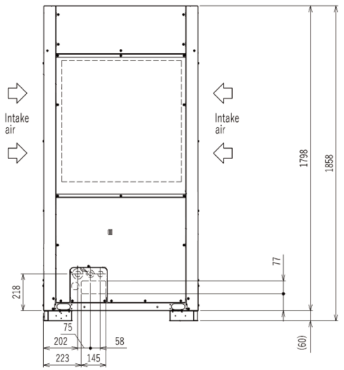
Notes:
ErP Lot 6 calculation method to EN14825.
*1 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.
*2 12.7mm(1/2") if P250 furthest length ≥ 90m, P300 furthest length ≥ 40m.

Product Dimensions PUHY-M200/250/300YXM-A

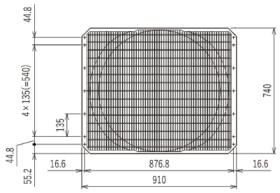
Side View



Front View

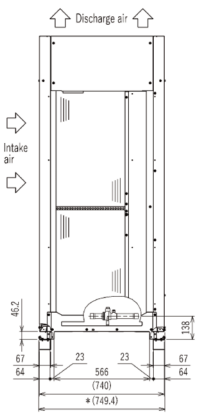


Upper View

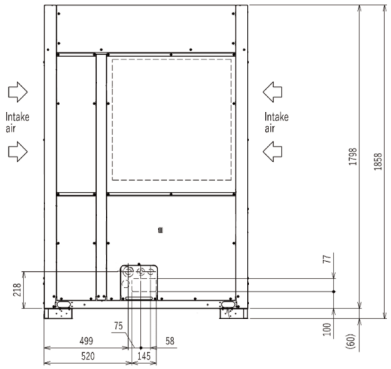


Product Dimensions PUHY-M350/400YXM-A

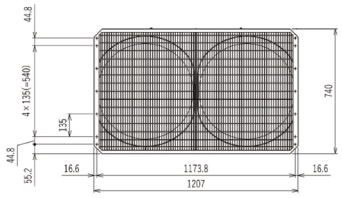
Side View



Front View

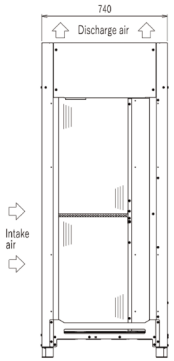


Upper View

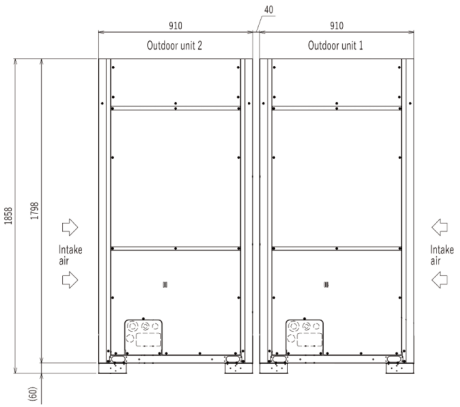


Product Dimensions PUHY-M400YSXM-A

Side View



Front View



Y Series VRF (50-61.5kW)

Heat Pump Outdoor Units (Heating or Cooling)

CITY MULTI YXM

The **City Multi Y Series** VRF Heat Pump systems provide a simple and flexible solution where heating or cooling is required across all or selected indoor units at any given time. With a modular outdoor unit design, the system offers complete design freedom and is well suited to applications such as open-plan offices, call centres, and retail spaces.

Key Features & Benefits

- Energy Efficient Heat Pump Operation - delivers effective heating or cooling to internal spaces, supporting a simple and flexible system design
- Lower GWP R32 Refrigerant - for reduced carbon impact and future-ready legislation compliance
- Ultra-Compact Modular Design - smaller unit footprint allows installation in tight spaces without compromising on performance
- Broad Indoor Unit Compatibility - connects to a wide range of unit types and capacities, making it suitable for varied building applications
- Extended Heating Range (-25°C) - ensures reliable heating even in severe winter conditions by maintaining efficient system operation
- Easy-to-Maintain Safety Feature Options - for reduced onsite time and costs while supporting occupant peace of mind
- Low Noise Operation - features a 5-step low noise mode that minimises sound levels for quieter surroundings
- 113m Vertical Height Separation - offers generous height allowance between indoor and outdoor units, enabling design flexibility in larger buildings

R32



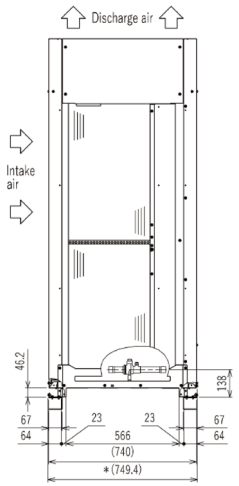


OUTDOOR UNITS		PUHY-M450YXM-A	PUHY-M450YSXM-A	PUHY-M500YXM-A	PUHY-M500YSXM-A	PUHY-M550YSXM-A
CAPACITY (kW)	Heating (nominal max)	56.0	56.5	58.0	63.0	69.0
	Cooling (nominal)	50.0	50.4	56.0	56.0	61.5
	High Performance Heating (UK)	52.6	56.5	54.2	63.0	69.0
	COP Priority Heating (UK)	49.3	54.2	51.0	60.5	66.2
	Cooling (UK)	44.5	45.1	49.8	50.1	55.0
POWER INPUT (kW)	Heating (nominal max)	16.13	13.29	16.95	15.44	17.16
	Cooling (nominal)	15.10	13.33	18.85	15.77	17.52
	High Performance Heating (UK)	18.87	18.07	19.93	21.12	23.89
	COP Priority Heating (UK)	17.10	15.95	17.97	18.53	20.59
	Cooling (UK)	13.89	12.00	17.34	14.04	15.59
COP / EER (nominal max)		3.47 / 3.31	4.25 / 3.78	3.42 / 2.97	4.08 / 3.55	4.02 / 3.51
SCOP / SEER		4.46 / 7.50	4.75 / 7.47	4.36 / 7.03	4.75 / 7.39	4.75 / 7.42
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 (m^3/min)	High	300	180 / 170	305	180 / 180	235 / 180
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")
	Liquid	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
SOUND PRESSURE LEVEL (DBA)	Heating / Cooling	68.0 / 63.0	61.0 / 60.0	69.5 / 67.5	62.0 / 60.0	65.0 / 62.0
SOUND POWER LEVEL (DBA	Heating / Cooling	89.0 / 83.0	82.0 / 80.0	91.0 / 87.0	83.0 / 82.0	85.0 / 83.0
WEIGHT (kg)		324	262 + 262	324	262 + 262	263 + 262
DIMENSIONS (mm)	Width	1207	910 + 910	1207	910 + 910	910 + 910
	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
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]	25.8 / 24.2 [30.4]	21.3 / 21.3 [21.4 + 21.4]	27.1 / 30.2 [33.4]	24.7 / 25.2 [21.4 + 21.4]	27.5 / 28.0 [21.4 + 26.5]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52
FUSE RATING (MCB SIZES BS EN 60947-2) - (A)*1		1 x 32	1 x 25 / 1 x 25	1 x 40	1 x 25 / 1 x 25	1 x 25 / 1 x 32
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) R32 (GWP 675)		9.3 / 6.3	16.0 / 10.8	9.3 / 6.3	16.0 / 10.8	16.0 / 10.8
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (T) R32 (GWP 675)		25.4 / 17.1	37.0 / 25.0	25.4 / 17.1	37.0 / 25.0	37.0 / 25.0

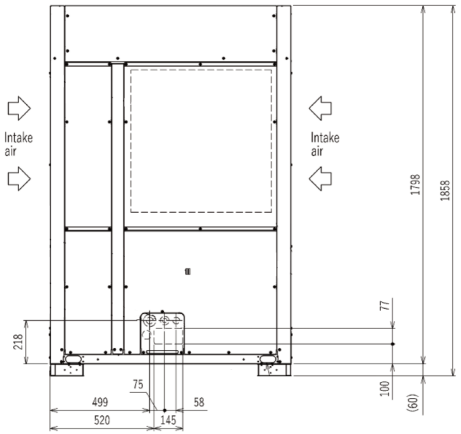
Notes:
ErP Lot 6 calculation method to EN14825.
*1 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

Product Dimensions PUHY-M450/500YXM-A

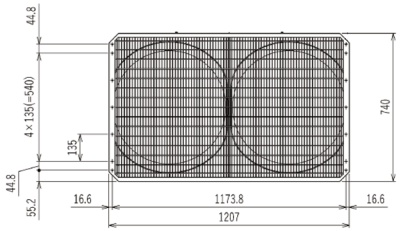
Side View



Front View

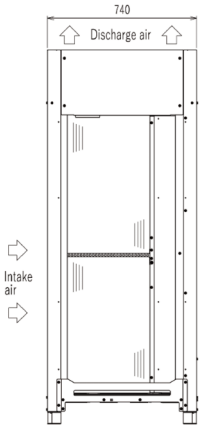


Upper View

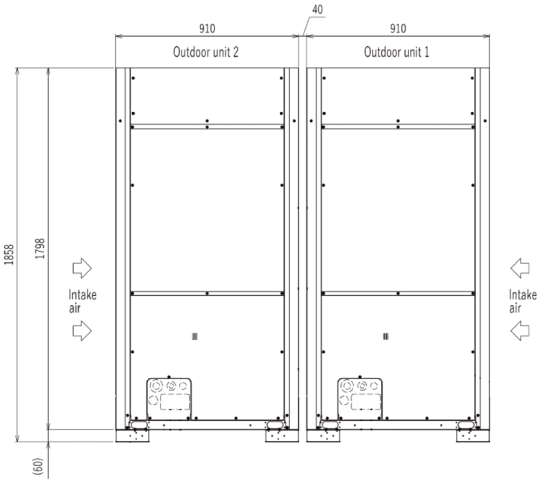


Product Dimensions PUHY-M450/500/550/600YSXM-A

Side View



Front View



Y Series VRF (67-95kW)

Heat Pump Outdoor Units (Heating or Cooling)

CITY MULTI YXM







The **City Multi Y Series** VRF Heat Pump systems provide a simple and flexible solution where heating or cooling is required across all or selected indoor units at any given time. With a modular outdoor unit design, the system offers complete design freedom and is well suited to applications such as open-plan offices, call centres, and retail spaces.

Key Features & Benefits

- Energy Efficient Heat Pump Operation - delivers effective heating or cooling to internal spaces, supporting a simple and flexible system design
- Lower GWP R32 Refrigerant - for reduced carbon impact and future-ready legislation compliance
- Ultra-Compact Modular Design - smaller unit footprint allows installation in tight spaces without compromising on performance
- Broad Indoor Unit Compatibility - connects to a wide range of unit types and capacities, making it suitable for varied building applications
- Extended Heating Range (-25°C) - ensures reliable heating even in severe winter conditions by maintaining efficient system operation
- Easy-to-Maintain Safety Feature Options - for reduced onsite time and costs while supporting occupant peace of mind
- Low Noise Operation - features a 5-step low noise mode that minimises sound levels for quieter surroundings
- 113m Vertical Height Separation - offers generous height allowance between indoor and outdoor units, enabling design flexibility in larger buildings

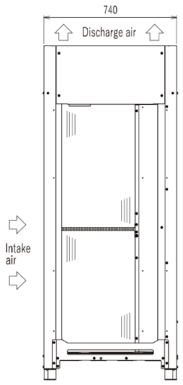
R32

OUTDOOR UNITS		PUHY-M600YSXM-A	PUHY-M650YSXM-A	PUHY-M700YSXM-A	PUHY-M750YSXM-A	PUHY-M800YSXM-A	PUHY-M850YSXM-A
CAPACITY (kW)	Heating (nominal max)	75.0	82.5	90.0	95.0	100.0	106.0
	Cooling (nominal)	67.0	73.5	80.0	85.0	90.0	95.0
	High Performance Heating (UK)	75.0	82.5	90.0	95.0	100.0	98.6
	COP Priority Heating (UK)	72.0	79.2	86.4	91.2	96.0	93.3
	Cooling (UK)	60.0	65.8	71.6	76.1	80.6	84.6
POWER INPUT (kW)	Heating (nominal max)	18.98	21.94	25.21	26.53	27.93	30.54
	Cooling (nominal)	19.30	21.68	23.52	25.22	26.94	28.87
	High Performance Heating (UK)	26.57	29.84	34.29	36.88	38.82	35.73
	COP Priority Heating (UK)	22.78	26.99	31.01	32.63	34.35	32.37
	Cooling (UK)	17.18	19.95	21.64	23.20	24.78	26.56
COP / EER (nominal max)		3.95 / 3.47	3.76 / 3.39	3.57 / 3.40	3.58 / 3.37	3.58 / 3.34	3.47 / 3.29
SCOP / SEER		4.76 / 7.54	4.76 / 7.63	4.76 / 7.85	4.67 / 7.65	4.59 / 7.46	4.52 / 7.43
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 (m^3/min)	High	235 / 235	220 / 235	220 / 220	260 / 220	260 / 260	300 / 260
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")	34.93 (1-3/8")	41.28 (1-5/8")
	Liquid	15.88 (5/8")	15.88 (5/8")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")
SOUND PRESSURE LEVEL (DBA)	Heating / Cooling	67.0 / 64.0	67.0 / 63.0	67.0 / 61.0	67.0 / 63.0	68.0 / 65.0	70.0 / 66.0
SOUND POWER LEVEL (DBA	Heating / Cooling	87.0 / 84.0	86.0 / 83.0	86.0 / 82.0	88.0 / 84.0	90.0 / 86.0	91.0 / 86.0
WEIGHT (kg)		263 + 263	319 + 263	319 + 319	324 + 319	324 + 324	324 + 324
DIMENSIONS (mm)	Width	910 + 910	910 + 1207	1207 + 1207	1207 + 1207	1207 + 1207	1207 + 1207
	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
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]	30.4 / 30.9 [26.5 + 26.5]	35.1 / 34.7 [26.5 + 27.3]	40.4 / 37.7 [27.3 + 27.3]	42.5 / 40.4 [27.3 + 30.4]	44.7 / 43.2 [30.4 + 30.4]	48.9 / 46.3 [30.4 + 30.4]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -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 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
CHARGE REFRIGERANT (KG) / CO_2 EQUIVALENT (T) R32 (GWP 675)		16.0 / 10.8	17.3 / 11.7	18.6 / 12.6	18.6 / 12.6	18.6 / 12.6	18.6 / 12.6
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (T) R32 (GWP 675)		37.0 / 25.0	35.7 / 24.1	34.9 / 23.6	34.9 / 23.6	35.1 / 23.7	35.4 / 23.9

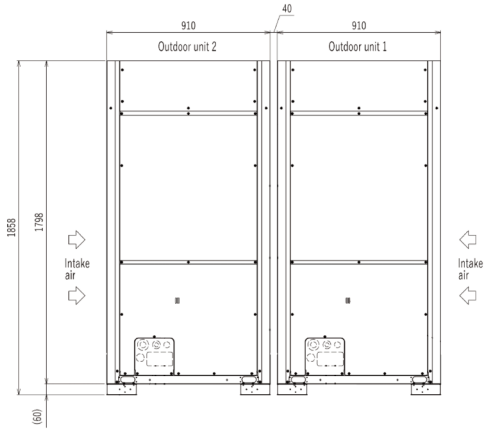
Notes:
ErP Lot 6 calculation method to EN14825.
*1 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

Product Dimensions PUHY-M600YSXM-A

Side View

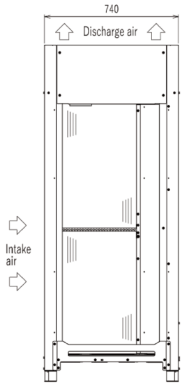


Front View

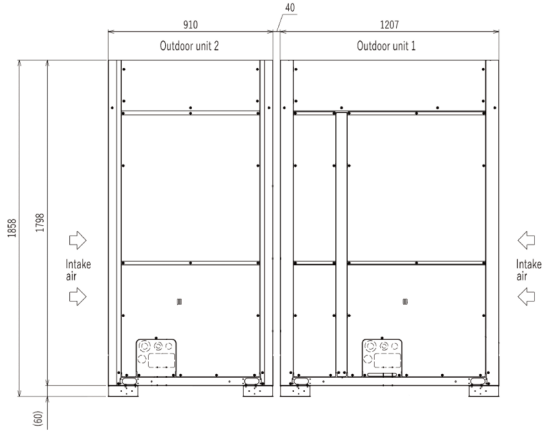


Product Dimensions PUHY-M650YSXM-A

Side View

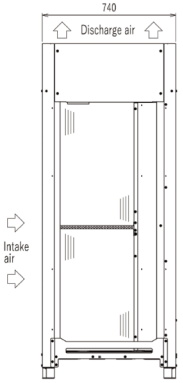


Front View

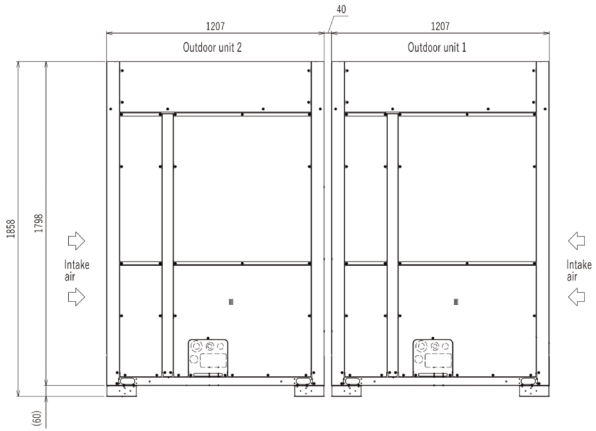


Product Dimensions PUHY-M700/750/800/850YSXM-A

Side View



Front View



Y Series VRF (100-112kW)

Heat Pump Outdoor Units (Heating or Cooling)

CITY MULTI YXM

The **City Multi Y Series** VRF Heat Pump systems provide a simple and flexible solution where heating or cooling is required across all or selected indoor units at any given time. With a modular outdoor unit design, the system offers complete design freedom and is well suited to applications such as open-plan offices, call centres, and retail spaces.

Key Features & Benefits

- Energy Efficient Heat Pump Operation - delivers effective heating or cooling to internal spaces, supporting a simple and flexible system design
- Lower GWP R32 Refrigerant - for reduced carbon impact and future-ready legislation compliance
- Ultra-Compact Modular Design - smaller unit footprint allows installation in tight spaces without compromising on performance
- Broad Indoor Unit Compatibility - connects to a wide range of unit types and capacities, making it suitable for varied building applications
- Extended Heating Range (-25°C) - ensures reliable heating even in severe winter conditions by maintaining efficient system operation
- Easy-to-Maintain Safety Feature Options - for reduced onsite time and costs while supporting occupant peace of mind
- Low Noise Operation - features a 5-step low noise mode that minimises sound levels for quieter surroundings
- 113m Vertical Height Separation - offers generous height allowance between indoor and outdoor units, enabling design flexibility in larger buildings

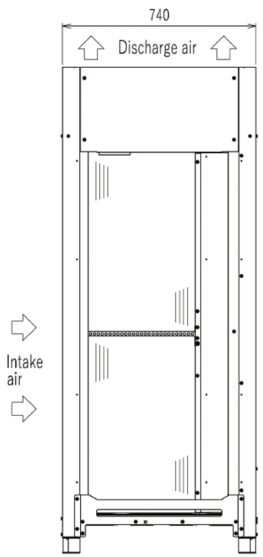
R32



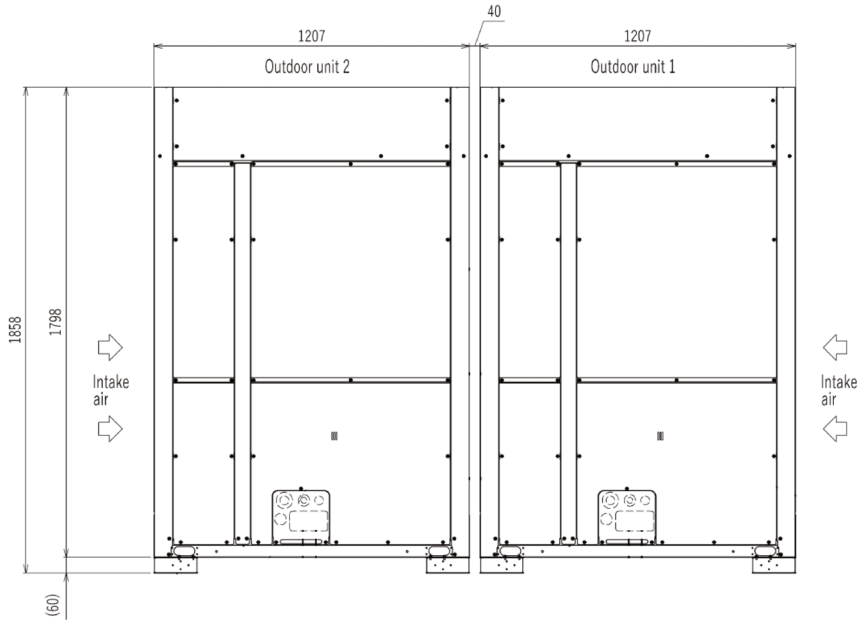
OUTDOOR UNITS		PUHY-M900YSXM-A	PUHY-M950YSXM-A	PUHY-M1000YSXM-A
CAPACITY (kW)	Heating (nominal max)	112.0	114.0	116.0
	Cooling (nominal)	100.0	106.0	112.0
	High Performance Heating (UK)	104.2	106.0	107.9
	COP Priority Heating (UK)	98.6	100.3	102.1
	Cooling (UK)	89.0	94.3	99.7
POWER INPUT (kW)	Heating (nominal max)	33.33	34.13	35.04
	Cooling (nominal)	31.15	34.86	39.16
	High Performance Heating (UK)	39.00	39.93	41.00
	COP Priority Heating (UK)	35.33	36.18	37.14
	Cooling (UK)	28.66	32.07	36.03
COP / EER (nominal max)		3.36 / 3.21	3.34 / 3.04	3.31 / 2.86
SCOP / SEER		4.46 / 7.37	4.41 / 7.13	4.36 / 6.89
MAX NO. OF CONNECTABLE INDOOR UNITS		50	50	50
MAX CONNECTABLE CAPACITY		50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity
AIRFLOW (m^3/min)	High	300 / 300	305 / 300	305 / 305
PIPE SIZE mm (in)	Gas	41.28 (1-5/8")	41.28 (1-5/8")	41.28 (1-5/8")
	Liquid	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")
SOUND PRESSURE LEVEL (DBA)	Heating / Cooling	72.0 / 67.0	72.0 / 69.0	73.0 / 71.0
SOUND POWER LEVEL (DBA	Heating / Cooling	93.0 / 87.0	94.0 / 89.0	95.0 / 91.0
WEIGHT (kg)		324 + 324	324 + 324	324 + 324
DIMENSIONS (mm)	Width	1207 + 1207	1207 + 1207	1207 + 1207
	Depth	740	740	740
(1798mm without legs)	Height	1858	1858	1858
ELECTRICAL SUPPLY*1		380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE*1		Three	Three	Three
STARTING CURRENT (A)*1		8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A)*1	Heating / Cooling [MAX]	53.4 / 49.9 [30.4 + 30.4]	54.7 / 55.9 [30.4 + 33.4]	56.1 / 62.8 [33.4 + 33.4]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52
FUSE RATING (MCB SIZES BS EN 60947-2) - (A)*1		1 x 32 / 1 x 32	1 x 32 / 1 x 40	1 x 40 / 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) R32 (GWP 675)		18.6 / 12.6	18.6 / 12.6	18.6 / 12.6
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (T) R32 (GWP 675)		35.5 / 24.0	35.5 / 24.0	35.5 / 24.0

Notes:
ErP Lot 6 calculation method to EN14825.
*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 Units



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-SM** 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
- Plug & Play Safety measure - shut-off valve integrated into outdoor unit, with option of using low level Leak detectors PAC-SL72SA-E in the occupied spaces

R32

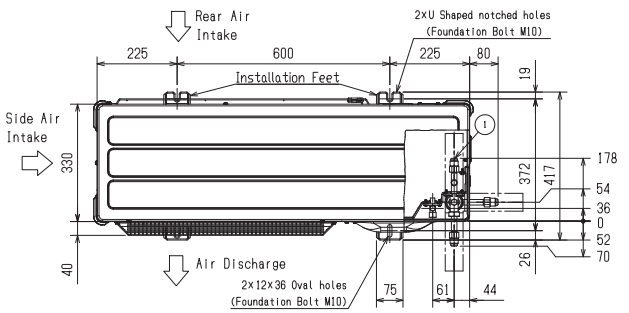
OUTDOOR UNITS		PUMY-SM112VKM2	PUMY-SM112YKM2 [3]	PUMY-SM125VKM2	PUMY-SM125YKM2 [3]	PUMY-SM140VKM2	PUMY-SM140YKM2 [3]
CAPACITY (KW)	Heating (nominal max)	14.0	14.0	16.0	16.0	17.5	17.5
	Cooling (nominal)	12.5	12.5	14.0	14.0	15.5	15.5
	Heating (UK)	14.0	14.0	16.0	16.0	17.5	17.5
	Cooling (UK)	9.8	9.8	11.0	11.0	12.2	12.2
POWER INPUT (KW)	Heating (nominal max)	3.33	3.33	3.73	3.73	4.15	4.15
	Cooling (nominal)	3.32	3.32	4.19	4.19	4.81	4.81
	Heating (UK)	4.27	4.27	4.78	4.78	5.32	5.32
	Cooling (UK)	1.55	1.55	1.95	1.95	2.24	2.24
COP / EER (nominal max)		4.20 / 3.76	4.20 / 3.76	4.28 / 3.34	4.28 / 3.34	4.21 / 3.22	4.21 / 3.22
MAX NO. OF CONNECTABLE INDOOR UNITS		12	12	12	12	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 (m^3/min)		77	77	83	83	83	83
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")
SOUND PRESSURE LEVEL (dBA)	Cooling	52	52	53	53	54	54
SOUND POWER LEVEL (dBA)	Cooling	72	72	73	73	74	74
WEIGHT (kg)		95	97	95	97	95	97
DIMENSIONS (mm)	Width	1050	1050	1050	1050	1050	1050
	Depth	330+40	330+40	330+40	330+40	330+40	330+40
	Height	981	981	981	981	981	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)		8	4	8	4	8	4
NOMINAL SYSTEM RUNNING CURRENT (A)	Heating / Cooling [MAX]	14.77 / 14.73 [30.5]	5.06 / 5.04 [13.0]	16.55 / 18.59 [30.5]	5.67 / 6.37 [13.0]	18.41 / 21.47 [30.5]	6.31 / 7.35 [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) R32 (GWP 675)		3.0 / 2.0	3.0 / 2.0	3.0 / 2.0	3.0 / 2.0	3.0 / 2.0	3.0 / 2.0
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (T) R32 (GWP 675)		4.5 / 3.0	4.5 / 3.0	4.5 / 3.0	4.5 / 3.0	4.5 / 3.0	4.5 / 3.0

[3] Three Phase

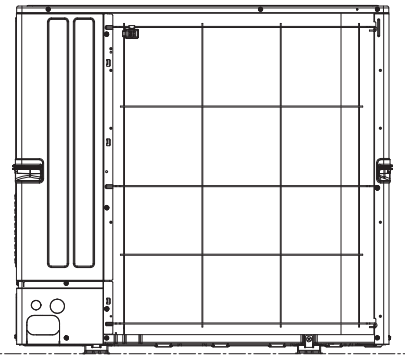
Note: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.
Nominal Conditions: Cooling; indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB. Nominal Max Conditions: Heating; indoor 20°C DB; outdoor 7°C DB, 6°C WB.
UK Conditions: 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-SM112-140VKM2/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 (40m max if outdoor installed below)
BETWEEN INDOOR AND INDOOR UNITS - HEIGHT	15m max

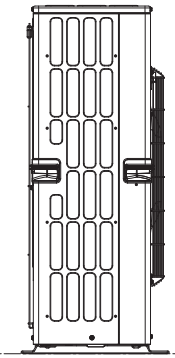
Upper View



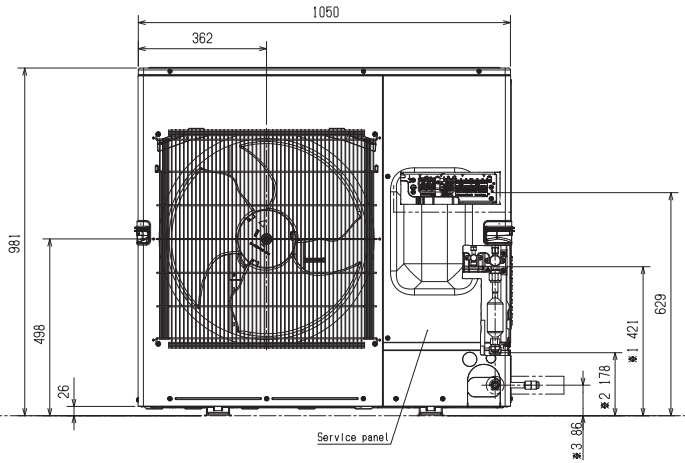
Rear View



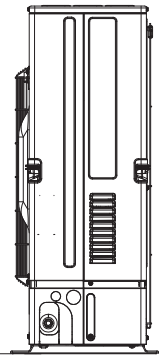
Left Side View



Front View



Right Side View



Y Series Twin Fan (22.4kW)

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-M** 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
- Plug & Play Safety measure - shut-off valve integrated into outdoor unit, with option of using low level Leak detectors PAC-SL72SA-E in the occupied spaces

R32

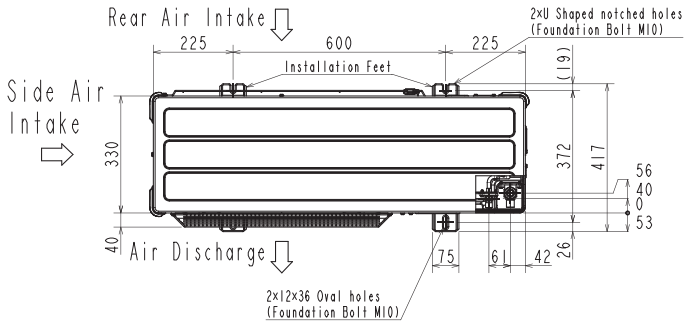
OUTDOOR UNIT		PUMY-M200YKM [3]
CAPACITY (KW)	Heating (nominal max)	25.0
	Cooling (nominal)	22.4
	Heating (UK)	25.0
	Cooling (UK)	17.6
POWER INPUT (KW)	Heating (nominal max)	5.85
	Cooling (nominal)	7.18
	Heating (UK)	7.52
	Cooling (UK)	3.43
COP / EER (nominal max)		4.27 / 3.12
MAX NO. OF CONNECTABLE INDOOR UNITS		12
MAX CONNECTABLE CAPACITY		50-130% OU Capacity
AIRFLOW (m^3/min)		135.9
PIPE SIZE MM (in)	Gas	19.05 (3/4")
	Liquid	9.52 (3/8")
SOUND PRESSURE LEVEL (dBA)	Cooling	56
SOUND POWER LEVEL (dBA)	Cooling	74
WEIGHT (kg)		128
DIMENSIONS (mm)	Width	1050
	Depth	330+40
	Height	1338
ELECTRICAL SUPPLY		380-415v, 50Hz
PHASE		Three
STARTING CURRENT (A)		7
NOMINAL SYSTEM RUNNING CURRENT (A)	Heating / Cooling [MAX]	9.30 / 11.39 [19.0]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling	-20~15 / -5~46
FUSE RATING (BS88) - HRC (A)		1 x 20
MAINS CABLE NO. CORES		4 + earth
CHARGE REFRIGERANT (kg) / CO_2 EQUIVALENT (T) R32 (GWP 675)		3.0 / 2.0
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (T) R32 (GWP 675)		9.4 / 6.3

[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.

PIPING RESTRICTIONS	PUMY-M200YKM
TOTAL PIPING LENGTH	150m max
FURTHEST PIPING LENGTH	80m max
FURTHEST PIPING LENGTH AFTER 1st BRANCH	50m max
BETWEEN INDOOR AND OUTDOOR UNITS - HEIGHT	50m max (40m max if outdoor installed below)
BETWEEN INDOOR AND INDOOR UNITS - HEIGHT	15m max

Upper View

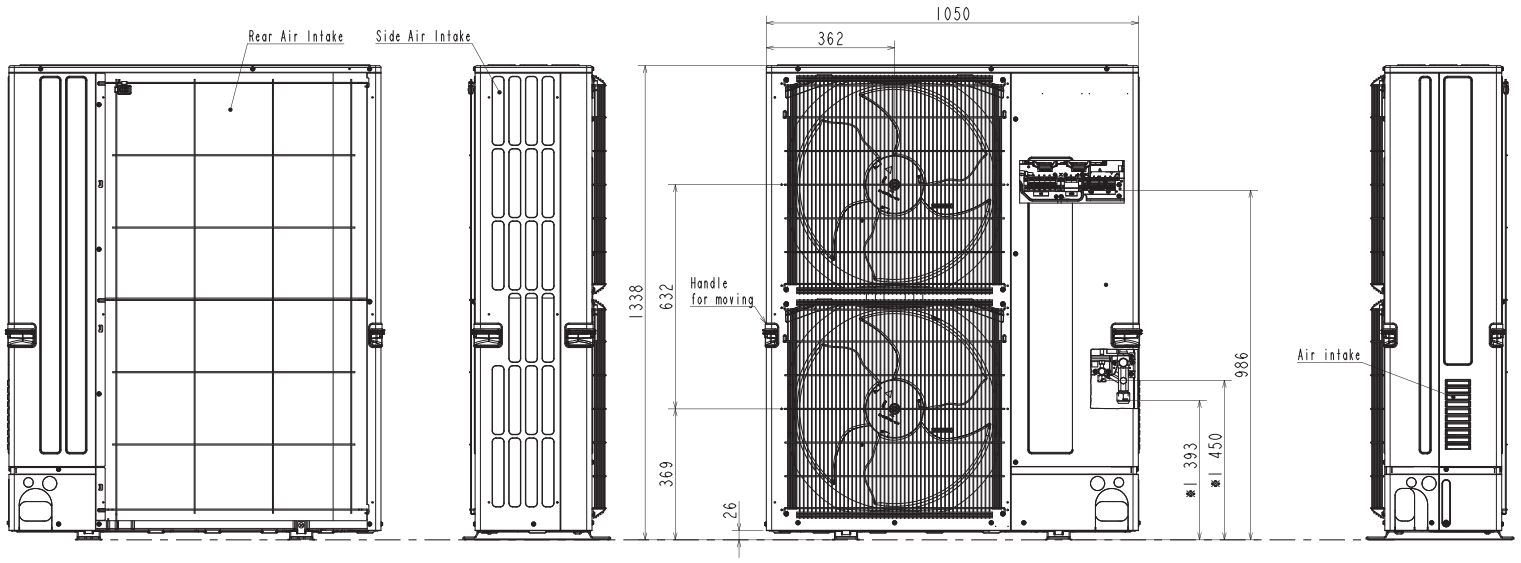


Rear View

Left Side View

Front View

Right Side View



R2 Series VRF High Efficiency (22.4-45kW)

Simultaneous Heating and Cooling with Heat Recovery Outdoor Units





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

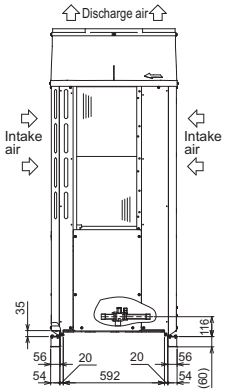
R410A

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	50.0
	Cooling (nominal)		22.4	28.0	33.5	40.0	45.0	44.8
	High Performance Heating (UK)		25.0	31.5	35.6	42.8	45.0	50.0
	COP Priority Heating (UK)		22.8	28.7	34.1	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)		6.72	9.51	10.90	13.39	16.33	13.85
	Cooling (nominal)		6.38	9.75	11.20	14.23	18.75	13.17
	High Performance Heating (UK)		8.47	11.98	14.50	17.81	18.45	17.73
	COP Priority Heating (UK)		6.72	9.51	10.90	13.39	16.33	13.85
	Cooling (UK)		3.70	5.66	6.50	8.25	12.00	7.64
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 (m^3/min)	High		170	185	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 / 61.0	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	76.0 / 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	74.5 / 69.5	77.5 / 70.5	77.0 / 73.0	78.0 / 73.0	74.5 / 69.5
WEIGHT (kg)			219	228	230	275	276	219 + 219
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
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]	22.2 / 21.1 [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 25	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)		28.3 / 59.1	34.3 / 71.6	34.3 / 71.6	39 / 81.4	39 / 81.4	48.6 / 101.5

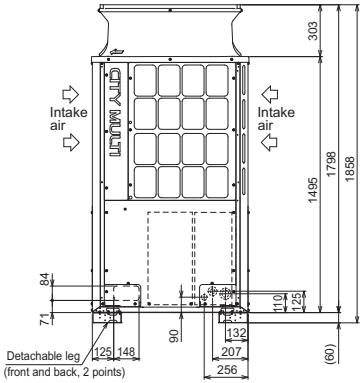
Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.
Nominal Conditions: Cooling; indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB. Nominal Max Conditions: Heating; indoor 20°C DB; outdoor 7°C DB, 6°C WB.
UK Conditions: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

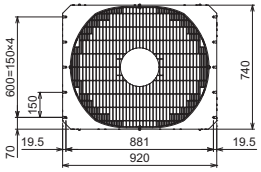
Side View



Front View

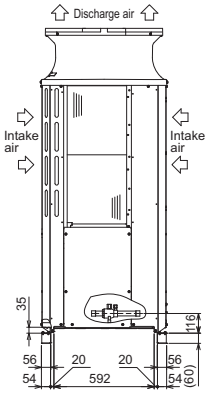


Upper View

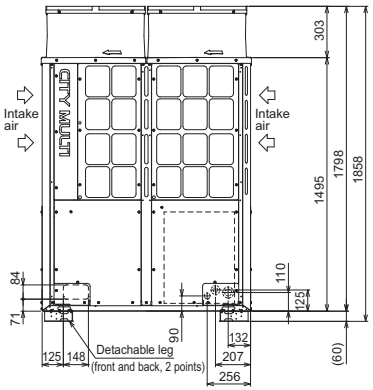


Product Dimensions PURY-EP350/400YNW-A2

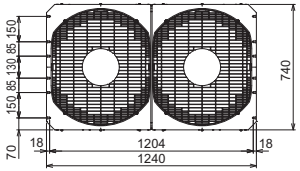
Side View



Front View

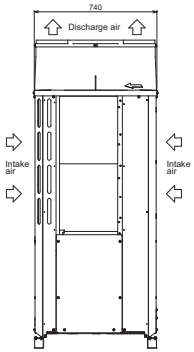


Upper View

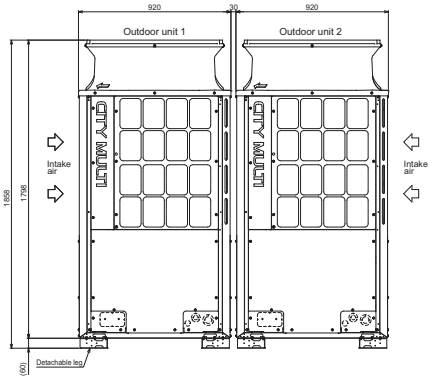


Product Dimensions PURY-EP400YSNW-A2

Side View



Front View



R2 Series VRF High Efficiency (50-61.5kW)

Simultaneous Heating and Cooling with Heat Recovery Outdoor Units







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

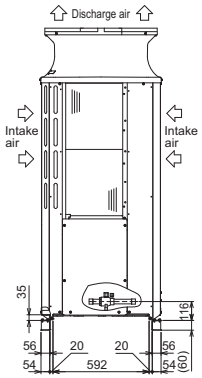
R410A

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 (m^3/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
(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]	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

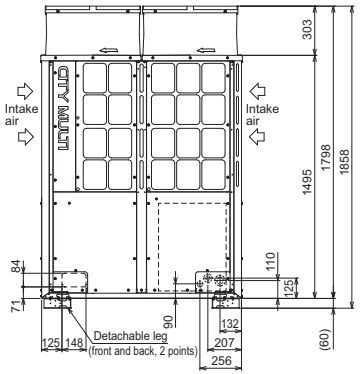
Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.
Nominal Conditions: Cooling; indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB. Nominal Max Conditions: Heating; indoor 20°C DB; outdoor 7°C DB, 6°C WB.
UK Conditions: 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-EP450YNW-A2

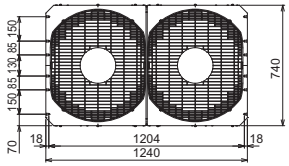
Side View



Front View

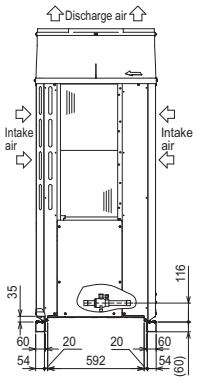


Upper View

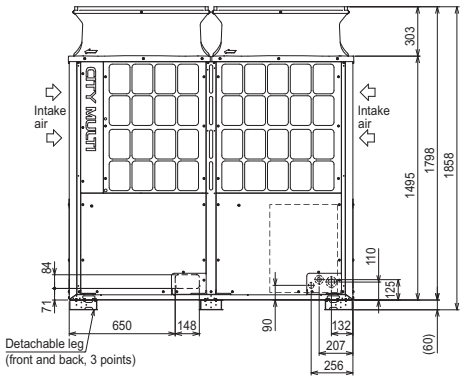


Product Dimensions PURY-EP500/550YNW-A2

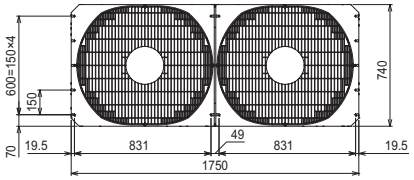
Side View



Front View

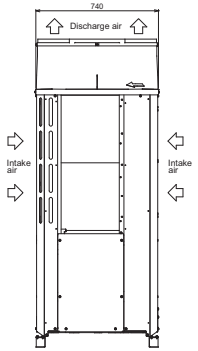


Upper View

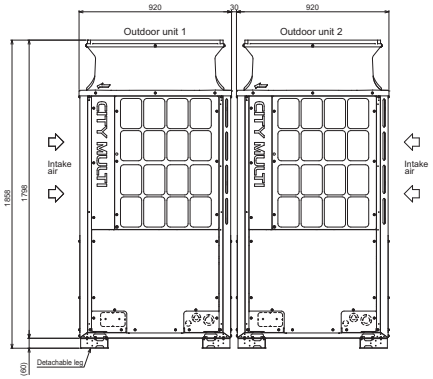


Product Dimensions PURY-EP450/500/550YSNW-A2

Side View



Front View



R2 Series VRF High Efficiency (67-95kW)

Simultaneous Heating and Cooling with Heat Recovery Outdoor Units







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

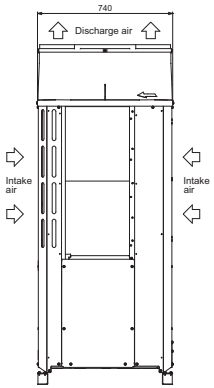
R410A

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	106.0
	Cooling (nominal)		67.0	73.5	80.0	85.0	90.0	95.0
	High Performance Heating (UK)		71.3	78.4	85.5	85.5	90.0	95.4
	COP Priority Heating (UK)		68.3	75.1	81.9	81.7	86.0	91.2
	Cooling (UK)		60.0	65.8	71.6	76.1	80.6	85.0
POWER INPUT (kW)	Heating (nominal max)		22.45	25.00	27.60	30.54	33.67	35.81
	Cooling (nominal)		23.10	26.15	29.30	33.59	38.62	38.93
	High Performance Heating (UK)		29.86	33.25	36.71	34.51	38.05	47.63
	COP Priority Heating (UK)		22.45	25.00	27.60	29.62	32.66	34.74
	Cooling (UK)		13.40	15.17	16.99	19.48	24.72	24.92
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 (m^3/min)	High		240 / 240	240 / 250	250 / 250	250 / 315	315 / 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")	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")	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	90.2 / 85.1	91.0 / 86.0	91.5 / 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	87.6 / 81.2
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	82.0 / 76.5
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	1240 + 1240
	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]	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]	57.4 / 62.4 [33.3 + 37.3]
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 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	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	70.5 / 147.2	70 / 146.2	67.2 / 140.3

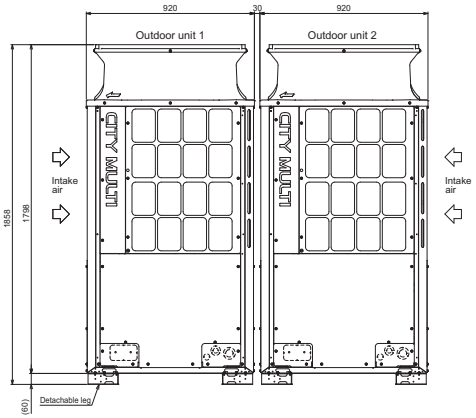
Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.
Nominal Conditions: Cooling; indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB. Nominal Max Conditions: Heating; indoor 20°C DB; outdoor 7°C DB, 6°C WB.
UK Conditions: 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-EP600YSNW-A2

Side View

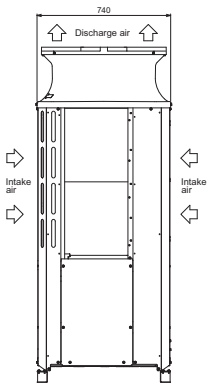


Front View

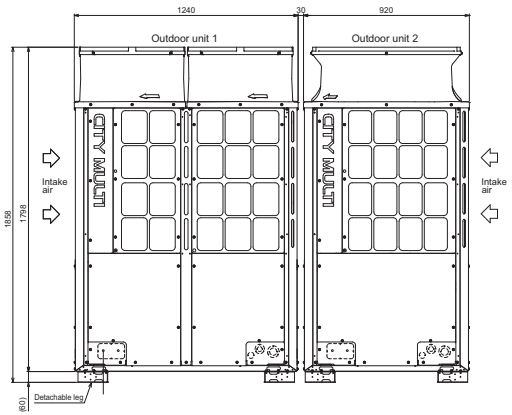


Product Dimensions PURY-EP650YSNW-A2

Side View

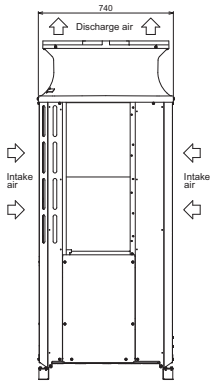


Front View

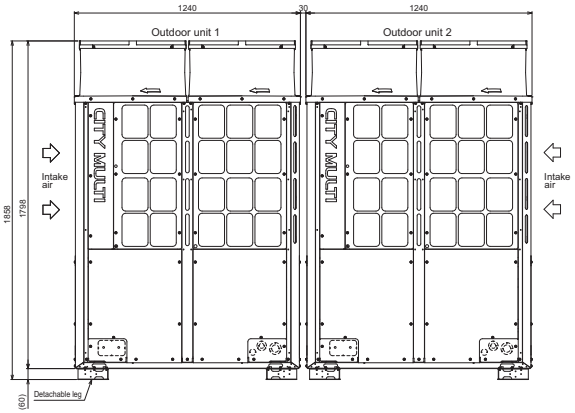


Product Dimensions PURY-EP700/750/800/850YSNW-A2

Side View



Front View



R2 Series VRF High Efficiency (100-120kW)

Simultaneous Heating and Cooling with Heat Recovery Outdoor Units





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

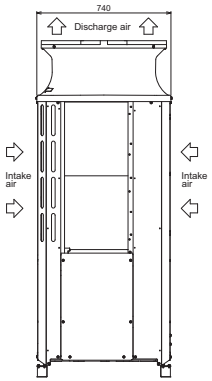
R410A

OUTDOOR UNITS		PURY-EP900YSNW-A2	PURY-EP950YSNW-A2	PURY-EP1000YSNW-A2	PURY-EP1050YSNW-A2	PURY-EP1100YSNW-A2
CAPACITY (kW)	Heating (nominal max)	112.0	119.0	126.0	132.0	138.0
	Cooling (nominal)	100.0	106.0	112.0	116.0	120.0
	High Performance Heating (UK)	100.8	107.1	113.4	118.8	124.2
	COP Priority Heating (UK)	96.3	102.3	108.4	113.5	118.7
	Cooling (UK)	89.5	94.9	100.2	103.8	107.4
POWER INPUT (kW)	Heating (nominal max)	37.83	40.61	43.29	46.15	49.28
	Cooling (nominal)	39.06	41.89	44.97	48.73	53.08
	High Performance Heating (UK)	50.31	54.01	57.58	52.15	55.69
	COP Priority Heating (UK)	36.70	39.39	41.99	44.77	47.80
	Cooling (UK)	25.00	26.81	28.78	28.26	33.97
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 (m^3/min)	High	315 / 315	315 / 295	295 / 295	295 / 410	410 / 410
PIPE SIZE mm (in)	Gas	41.28 (1-5/8")	41.28 (1-5/8")	41.28 (1-5/8")	41.28 (1-5/8")	41.28 (1-5/8")
	Liquid	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")	34.93 (1-3/8")	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
	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
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 (ºC)	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

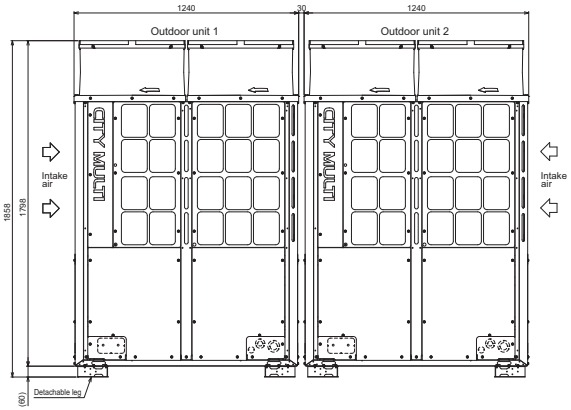
Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.
Nominal Conditions: Cooling; indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB. Nominal Max Conditions: Heating; indoor 20°C DB; outdoor 7°C DB, 6°C WB.
UK Conditions: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

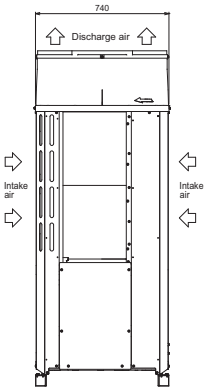


Front View

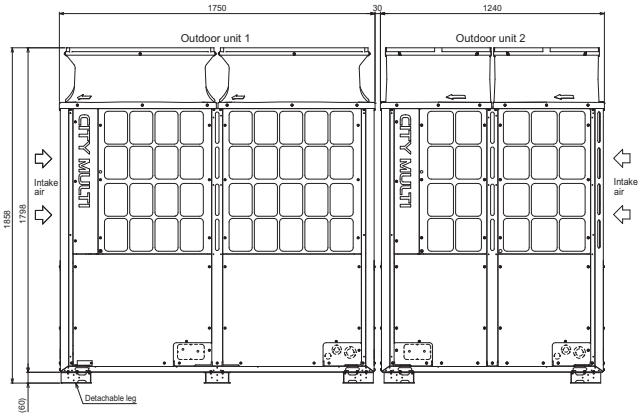


Product Dimensions PURY-EP950YSNW-A2

Side View

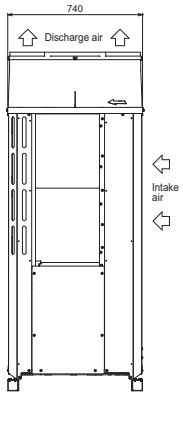


Front View

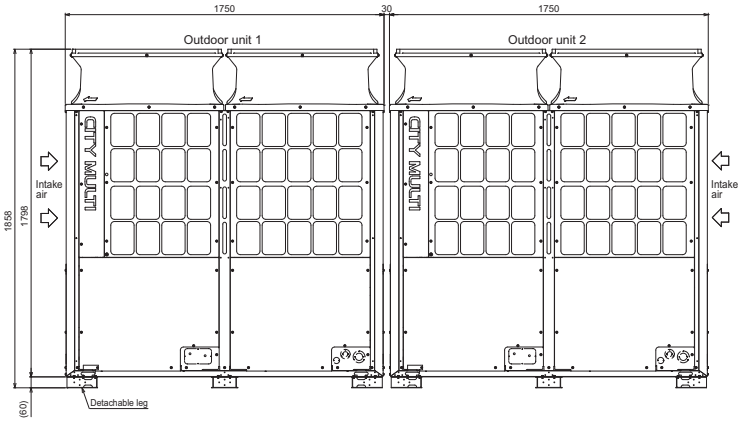


Product Dimensions PURY-EP1000/1050/1100YSNW-A2

Side View



Front View



R2 Series VRF Standard Efficiency (22.4-45kW)

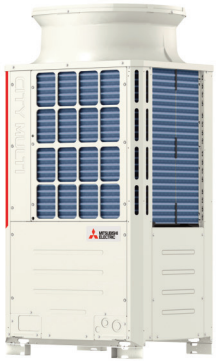
Simultaneous Heating and Cooling with Heat Recovery Outdoor Units

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

R410A



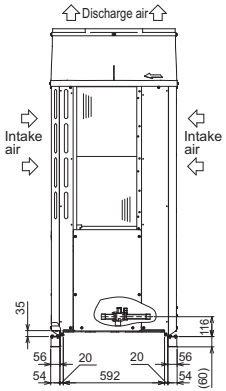


OUTDOOR UNITS			PURY-P200YNW-A2	PURY-P250YNW-A2	PURY-P300YNW-A2	PURY-P350YNW-A2	PURY-P400YNW-A2	PURY-P400YSNW-A2
CAPACITY (kW)	Heating (nominal max)		25.0	31.5	33.5	45.0	50.0	50.0
	Cooling (nominal)		22.4	28.0	33.5	40.0	45.0	44.8
	High Performance Heating (UK)		25.0	31.5	31.8	42.8	45.0	50.0
	COP Priority 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)		6.72	9.47	9.52	13.74	16.16	13.86
	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
AIRFLOW (m^3/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
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]	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

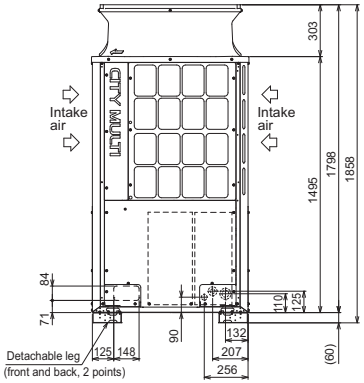
Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.
Nominal Conditions: Cooling; indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB. Nominal Max Conditions: Heating; indoor 20°C DB; outdoor 7°C DB, 6°C WB.
UK Conditions: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

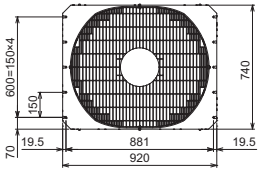
Side View



Front View

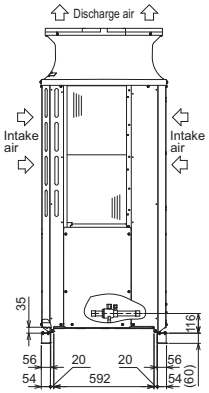


Upper View

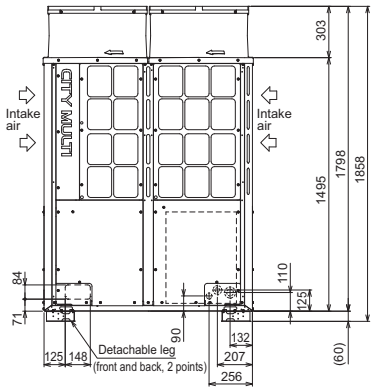


Product Dimensions PURY-P350/400YNW-A2

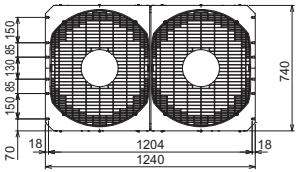
Side View



Front View

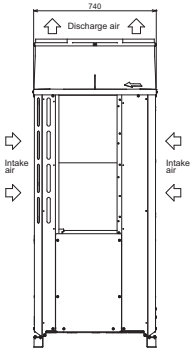


Upper View

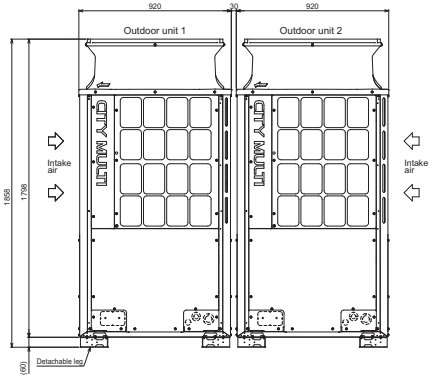


Product Dimensions PURY-P400YSNW-A2

Side View



Front View



R2 Series VRF Standard Efficiency (50-61.5kW)

Simultaneous Heating and Cooling with Heat Recovery Outdoor Units

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

R410A





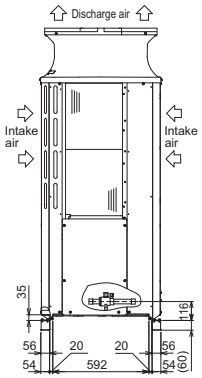


OUTDOOR UNITS		PURY-P450YNW-A2	PURY-P450YSNW-A2	PURY-P500YNW-A2	PURY-P500YSNW-A2	PURY-P550YNW-A2	PURY-P550YSNW-A2
CAPACITY (kW)	Heating (nominal max)	56.0	56.5	63.0	63.0	69.0	65.0
	Cooling (nominal)	50.0	50.4	56.0	56.0	60.0	61.5
	High Performance Heating (UK)	50.4	56.5	56.7	63.0	62.1	61.8
	COP Priority Heating (UK)	48.2	51.4	54.2	57.3	59.3	59.2
	Cooling (UK)	44.8	45.1	50.1	50.1	53.7	55.0
POWER INPUT (kW)	Heating (nominal max)	18.79	16.71	21.14	19.74	24.55	19.81
	Cooling (nominal)	19.84	17.08	22.22	21.13	25.86	22.69
	High Performance Heating (UK)	21.42	21.39	24.10	25.27	27.99	26.35
	COP Priority Heating (UK)	18.23	16.54	20.51	19.54	23.81	19.61
	Cooling (UK)	12.70	9.91	14.22	12.26	16.55	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 (m^3/min)	High	315	170 / 220	295	220 / 220	410	220 / 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	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

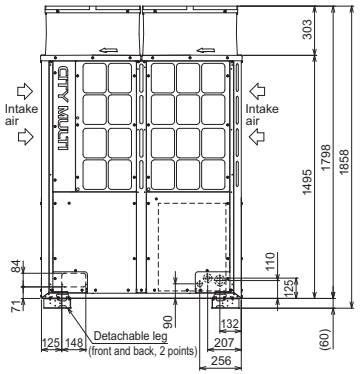
Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.
Nominal Conditions: Cooling; indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB. Nominal Max Conditions: Heating; indoor 20°C DB; outdoor 7°C DB, 6°C WB.
UK Conditions: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

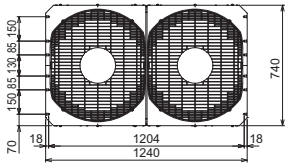
Side View



Front View

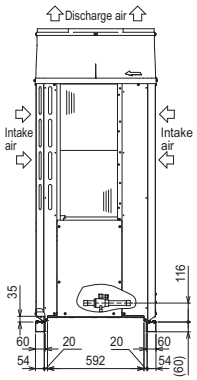


Upper View

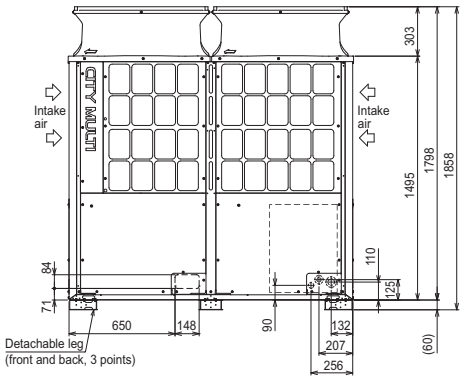


Product Dimensions PURY-P500/550YNW-A2

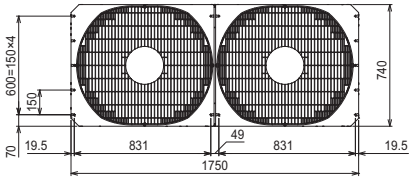
Side View



Front View

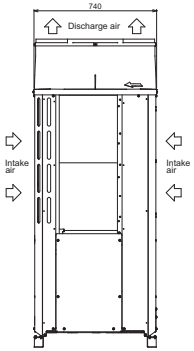


Upper View

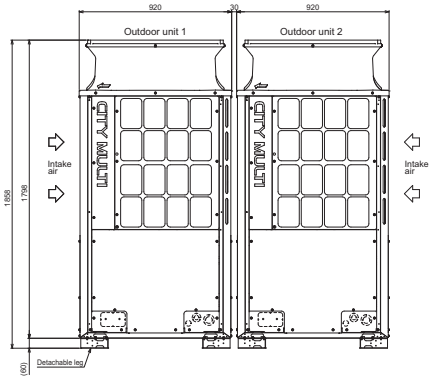


Product Dimensions PURY-P450/500/550YSNW-A2

Side View



Front View



R2 Series VRF Standard Efficiency (67-95kW)

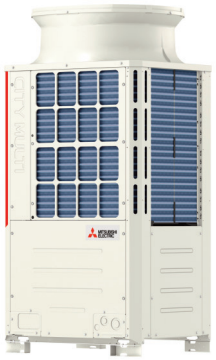
Simultaneous Heating and Cooling with Heat Recovery Outdoor Units

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

R410A



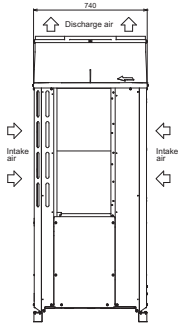


OUTDOOR UNITS		PURY-P600YSNW-A2	PURY-P650YSNW-A2	PURY-P700YSNW-A2	PURY-P750YSNW-A2	PURY-P800YSNW-A2	PURY-P850YSNW-A2
CAPACITY (kW)	Heating (nominal max)	67.0	78.5	90.0	95.0	100.0	106.0
	Cooling (nominal)	67.0	73.5	80.0	85.0	90.0	95.0
	High Performance Heating (UK)	63.7	74.6	85.5	85.5	90.0	95.4
	COP Priority Heating (UK)	61.0	71.4	81.9	81.7	86.0	91.2
	Cooling (UK)	60.0	65.8	71.6	76.1	80.6	85.0
POWER INPUT (kW)	Heating (nominal max)	19.81	24.07	28.66	31.35	34.36	36.55
	Cooling (nominal)	24.27	27.42	30.76	35.26	40.54	40.77
	High Performance Heating (UK)	26.35	32.01	38.12	35.43	38.83	41.30
	COP Priority Heating (UK)	19.61	23.83	28.37	30.41	33.33	35.45
	Cooling (UK)	14.08	15.90	17.84	20.45	25.95	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 (m^3/min)	High	240 / 240	240 / 250	250 / 250	250 / 315	315 / 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")	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")	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
	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]	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

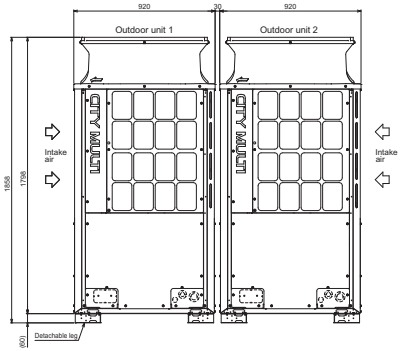
Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.
Nominal Conditions: Cooling; indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB. Nominal Max Conditions: Heating; indoor 20°C DB; outdoor 7°C DB, 6°C WB.
UK Conditions: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

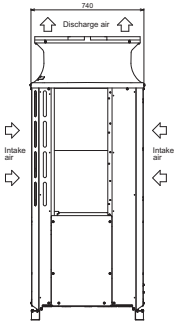


Front View

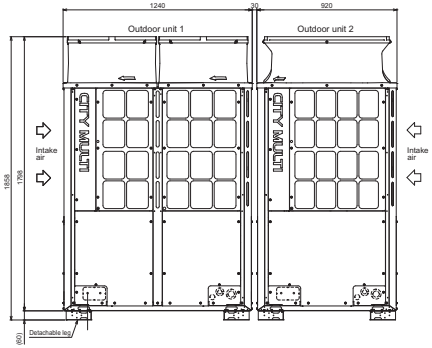


Product Dimensions PURY-P650YSNW-A2

Side View

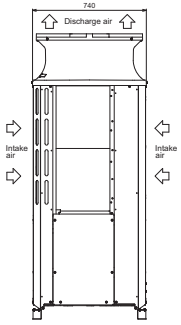


Front View

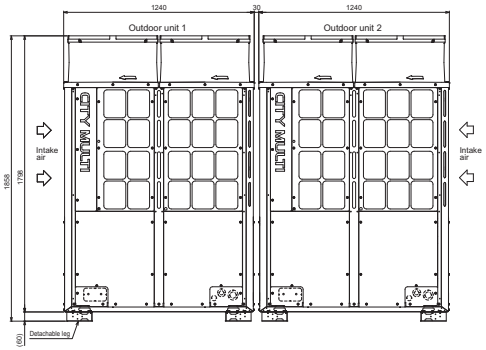


Product Dimensions PURY-P700/750/800/850YSNW-A2

Side View



Front View



R2 Series VRF Standard Efficiency (100-120kW)

Simultaneous Heating and Cooling with Heat Recovery Outdoor Units

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

R410A



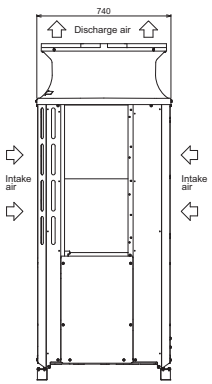


OUTDOOR UNITS			PURY-P900YSNW-A2	PURY-P950YSNW-A2	PURY-P1000YSNW-A2	PURY-P1050YSNW-A2	PURY-P1100YSNW-A2
CAPACITY (kW)	Heating (nominal max)		112.0	119.0	126.0	132.0	138.0
	Cooling (nominal)		100.0	106.0	112.0	116.0	120.0
	High Performance Heating (UK)		100.8	107.1	113.4	118.8	124.2
	COP Priority Heating (UK)		96.3	102.3	108.4	113.5	118.7
	Cooling (UK)		89.5	94.9	100.2	103.8	107.4
POWER INPUT (kW)	Heating (nominal max)		38.75	41.17	43.59	46.97	50.54
	Cooling (nominal)		40.98	43.44	45.90	49.36	53.32
	High Performance Heating (UK)		43.79	46.52	49.26	53.08	57.11
	COP Priority Heating (UK)		37.59	39.93	42.28	45.56	49.02
	Cooling (UK)		26.23	27.80	29.38	31.59	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 (m^3/min)	High		315 / 315	315 / 295	295 / 295	295 / 410	410 / 410
PIPE SIZE mm (in)	Gas		41.28 (1-5/8")	41.28 (1-5/8")	41.28 (1-5/8")	41.28 (1-5/8")	41.28 (1-5/8")
	Liquid		28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")	34.93 (1-3/8")	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
	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
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

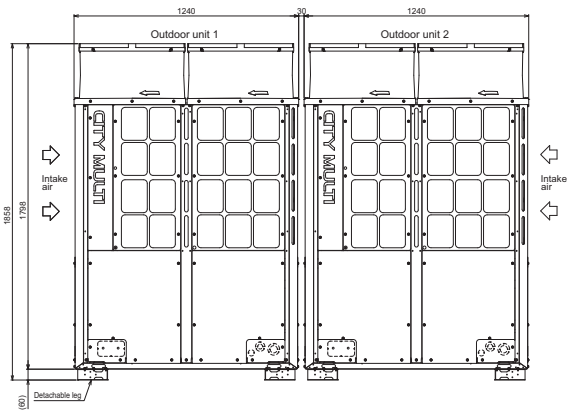
Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.
Nominal Conditions: Cooling; indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB. Nominal Max Conditions: Heating; indoor 20°C DB; outdoor 7°C DB, 6°C WB.
UK Conditions: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

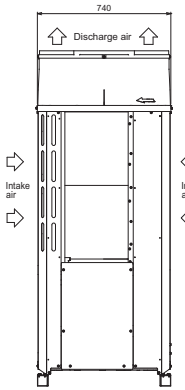


Front View

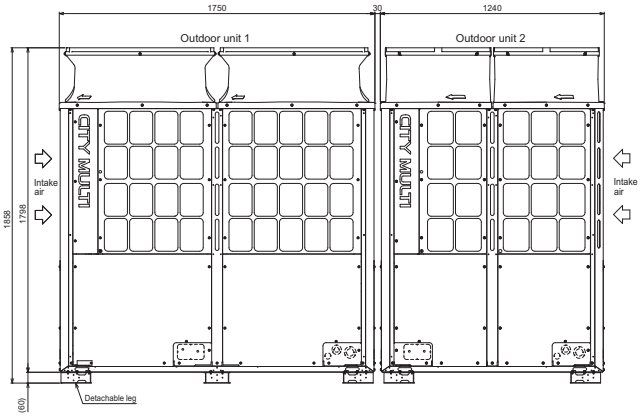


Product Dimensions PURY-P950YSNW-A2

Side View

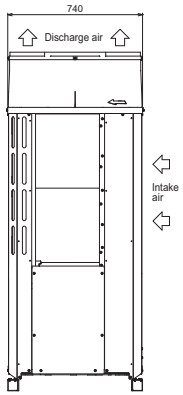


Front View

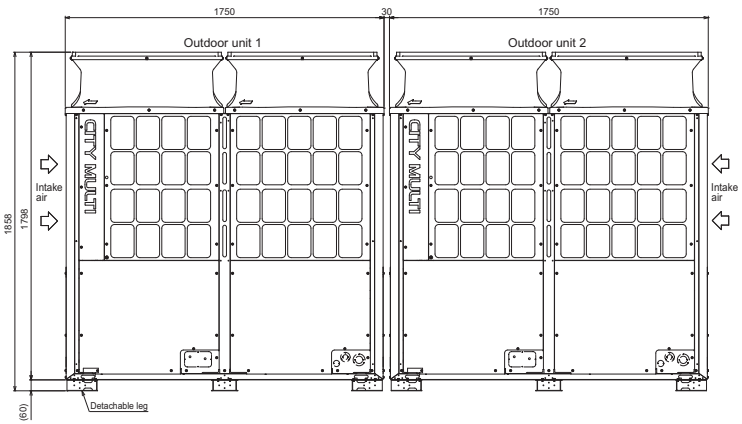


Product Dimensions PURY-P-1000/1050/1100YSNW-A2

Side View

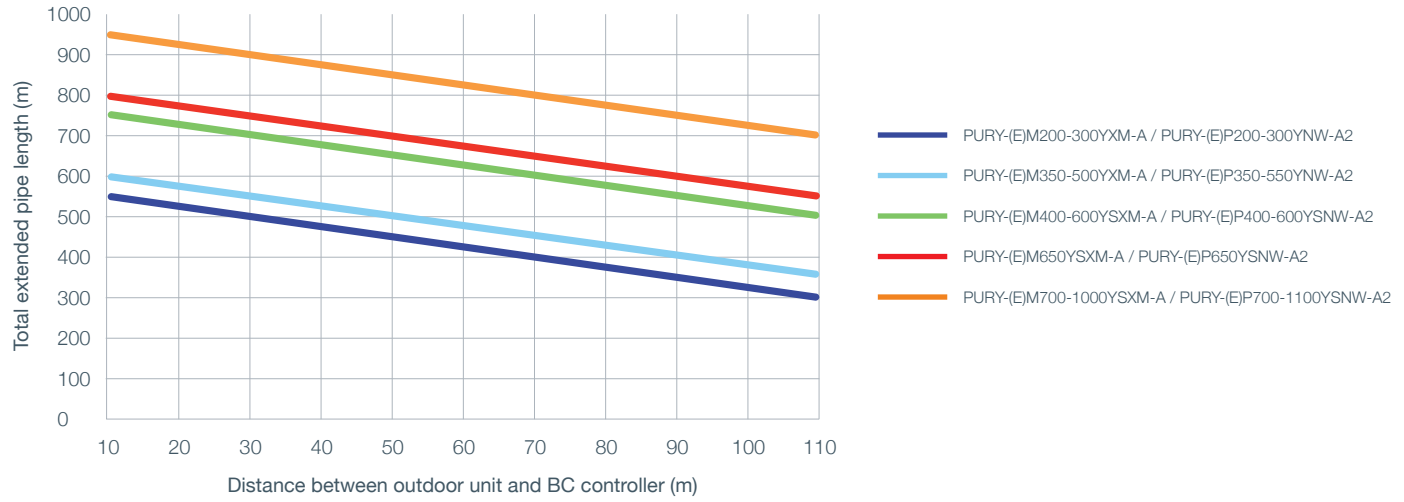


Front View

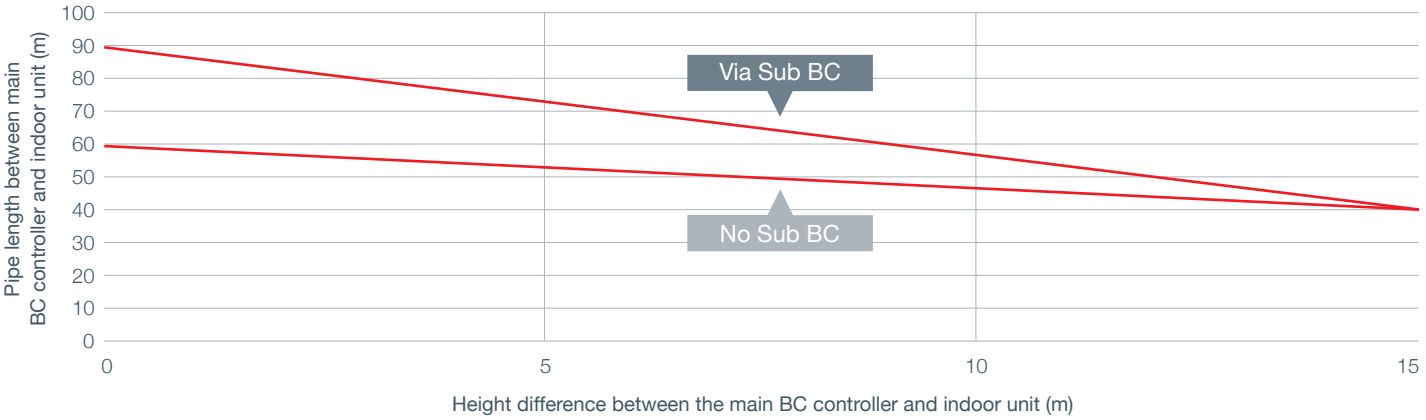


R2 Series Piping Design (R32 & R410A)

GRAPH 1: TOTAL PIPING LENGTH RESTRICTIONS



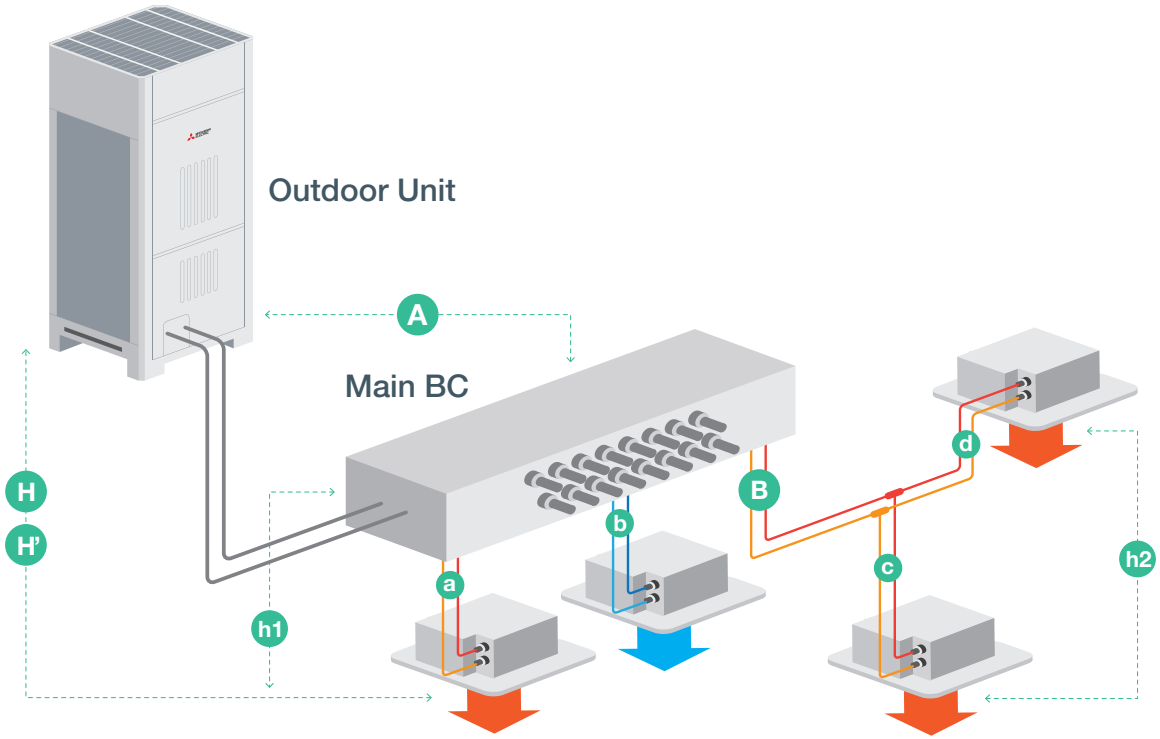
GRAPH 2: PIPE LENGTH BETWEEN BC CONTROLLER & INDOOR UNIT



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

R2 Series Piping Design (R32 & R410A)

1 BC CONTROLLER, NO SUB BC CONTROLLER

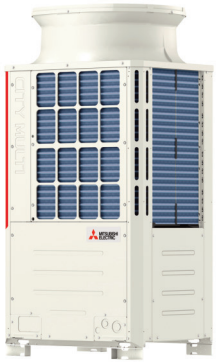


PIPE LENGTH	PIPE SECTION	MAX LENGTH
Total Piping Length	A+B+a+b+c+d	(See Graph 1)
Furthest Piping Length	A+B+d	165m
Length Between OU and BC	A	110m*1
Length Between Furthest IU and BC	B+d	60m*2 (40m)*3
Height Between OU and IU (OU above IU)	H	113m (YXM) / 90m (YNW)*4
Height Between OU and IU (OU below 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 MS200 or MS250 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 Units (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

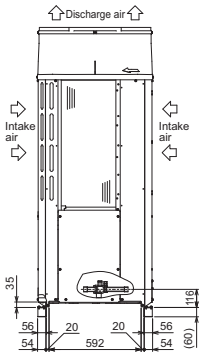
R410A

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	31.5	37.5	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	35.6	42.8	45.0	50.0
	COP Priority Heating (UK)	22.8	28.7	34.1	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)	6.08	8.49	10.30	12.32	14.20	12.16
	Cooling (nominal)	6.03	9.62	11.31	13.98	17.57	12.47
	High Performance Heating (UK)	7.66	10.70	13.70	16.39	16.05	15.56
	COP Priority Heating (UK)	6.08	8.49	10.30	12.32	13.77	12.16
	Cooling (UK)	3.50	5.58	6.56	8.11	11.24	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 (m^3/min)	High	170	185	240	270	300	170 / 170
PIPE SIZE mm (in)	Gas	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")
	Liquid	9.52 (3/8")	9.52 (3/8")*1	9.52 (3/8")*1	12.7 (1/2")	12.7 (1/2")	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

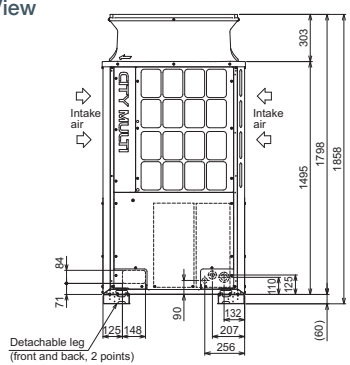
Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.
Nominal Conditions: Cooling; indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB. Nominal Max Conditions: Heating; indoor 20°C DB; outdoor 7°C DB, 6°C WB.
UK Conditions: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

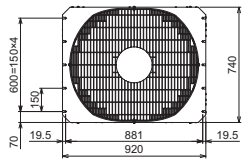
Side View



Front View

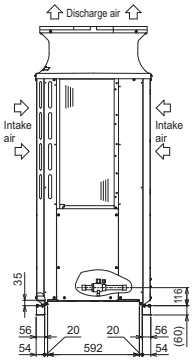


Upper View

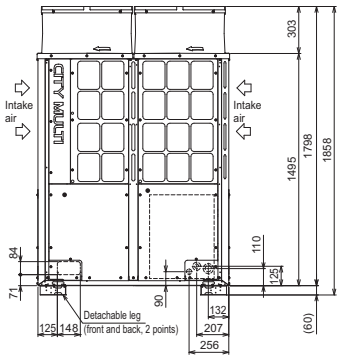


Product Dimensions PUHY-P350/400YNW-A2

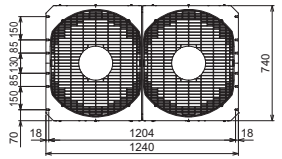
Side View



Front View

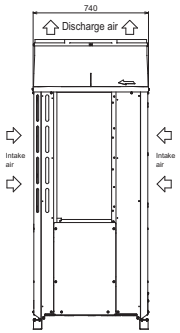


Upper View

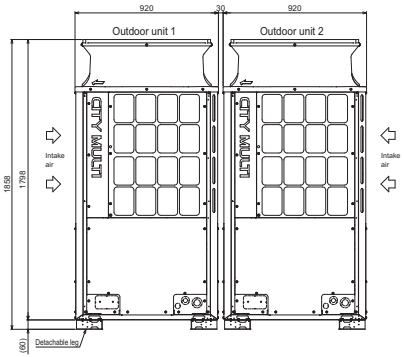


Product Dimensions PUHY-P400YSNW-A2

Side View



Front View



Y Series VRF (50-61.5kW)

Heat Pump Outdoor Units (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

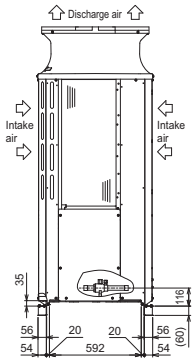
R410A

OUTDOOR UNITS		PUHY-P450YNW-A2	PUHY-P450YSNW-A2	PUHY-P500YNW-A2	PUHY-P500YSNW-A2	PUHY-P550YSNW-A2
CAPACITY (kW)	Heating (nominal max)	56.0	56.5	63.0	63.0	69.0
	Cooling (nominal)	50.0	50.4	56.0	56.0	61.5
	High Performance Heating (UK)	50.4	56.5	56.7	63.0	65.6
	COP Priority Heating (UK)	48.2	51.4	54.2	57.3	62.8
	Cooling (UK)	44.8	45.1	50.1	50.1	55.0
POWER INPUT (kW)	Heating (nominal max)	16.51	14.56	17.89	16.98	18.80
	Cooling (nominal)	18.86	15.94	21.05	19.85	21.65
	High Performance Heating (UK)	18.66	18.64	20.22	21.73	25.00
	COP Priority Heating (UK)	16.01	14.56	17.35	16.98	18.80
	Cooling (UK)	12.07	9.25	13.47	11.51	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 (m^3/min)	High	305	170 / 185	365	185 / 185	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")
	Liquid	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	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	920 + 920	1750	920 + 920	920 + 920
	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
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 (ºC)	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

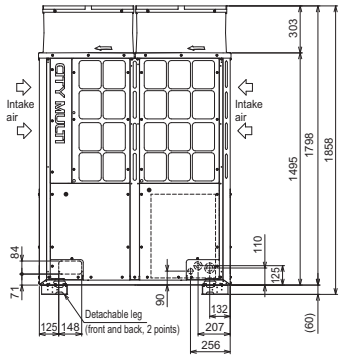
Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.
Nominal Conditions: Cooling; indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB. Nominal Max Conditions: Heating; indoor 20°C DB; outdoor 7°C DB, 6°C WB.
UK Conditions: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

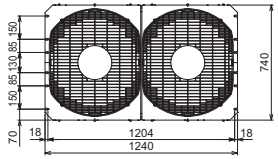
Side View



Front View

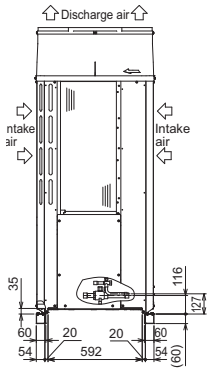


Upper View

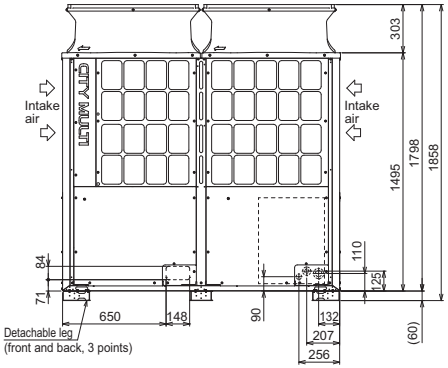


Product Dimensions PUHY-P500YNW-A2

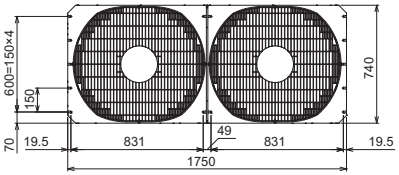
Side View



Front View

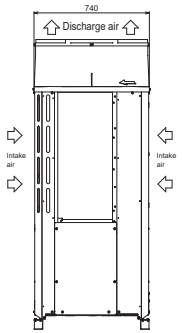


Upper View

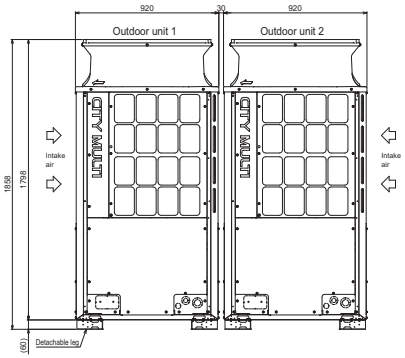


Product Dimensions PUHY-P450/500/550YSNW-A2

Side View

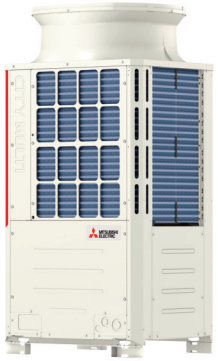


Front View



Y Series VRF (67-95kW)

Heat Pump Outdoor Units (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

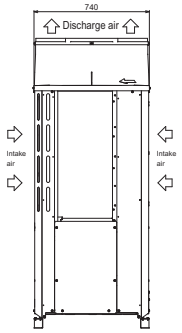
R410A

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	81.5	90.0	95.0	101.0	106.0
	Cooling (nominal)	67.0	73.0	80.0	85.0	90.0	95.0
	High Performance Heating (UK)	71.3	77.4	85.5	90.3	96.0	95.4
	COP Priority Heating (UK)	68.3	74.2	81.9	86.5	91.9	91.2
	Cooling (UK)	60.0	65.3	71.6	76.1	80.6	85.0
POWER INPUT (kW)	Heating (nominal max)	20.60	22.70	24.65	26.53	28.85	30.72
	Cooling (nominal)	23.34	27.96	28.88	32.56	33.96	37.69
	High Performance Heating (UK)	27.40	30.19	32.78	35.28	38.37	34.71
	COP Priority Heating (UK)	20.60	22.70	24.65	26.53	28.85	29.80
	Cooling (UK)	13.54	16.22	16.75	18.88	19.70	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 (m^3/min)	High	240 / 240	185 / 300	270 / 270	270 / 300	270 / 305	300 / 305
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")	34.93 (1-3/8")	41.28 (1-5/8")
	Liquid	15.88 (5/8")	15.88 (5/8")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	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	920 + 1240	1240 + 1240	1240 + 1240	1240 + 1240	1240 + 1240
	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
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

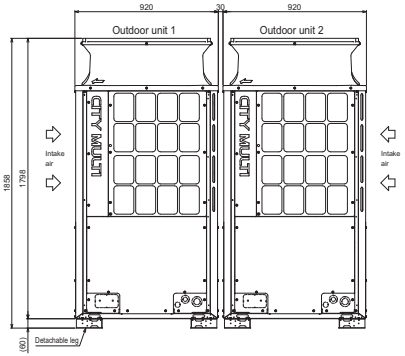
Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.
Nominal Conditions: Cooling; indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB. Nominal Max Conditions: Heating; indoor 20°C DB; outdoor 7°C DB, 6°C WB.
UK Conditions: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

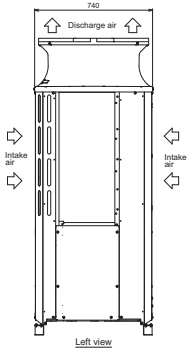


Front View

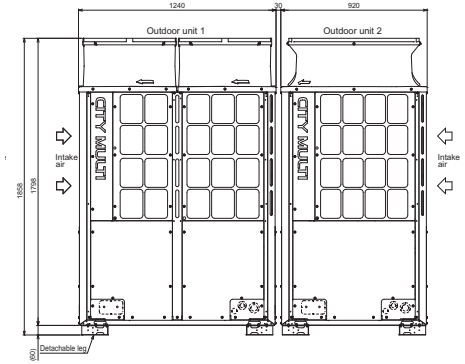


Product Dimensions PUHY-P650YSNW-A2

Side View

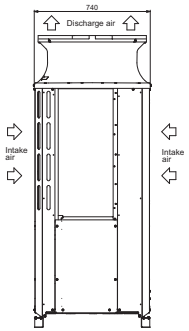


Front View

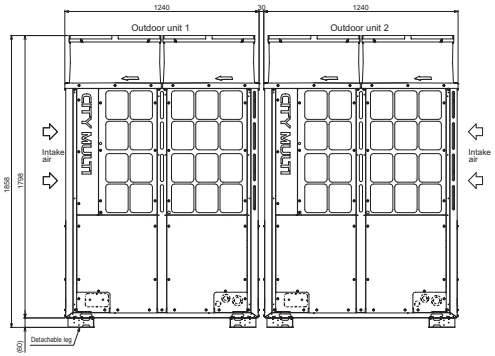


Product Dimensions PUHY-P700/750/800/850YSNW-A2

Side View

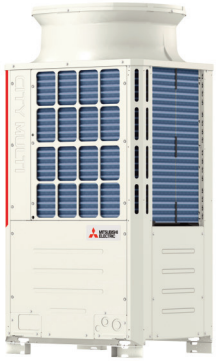


Front View



Y Series VRF (100-125kW)

Heat Pump Outdoor Units (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

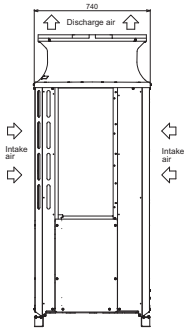
R410A

OUTDOOR UNITS		PUHY-P900YSNW-A2	PUHY-P950YSNW-A2	PUHY-P1000YSNW-A2	PUHY-P1050YSNW-A2	PUHY-P1100YSNW-A2
CAPACITY (kW)	Heating (nominal max)	112.0	121.5	126.5	131.5	140.0
	Cooling (nominal)	100.0	108.0	113.0	118.0	125.0
	High Performance Heating (UK)	100.8	109.4	113.9	118.4	126.0
	COP Priority Heating (UK)	96.3	104.5	108.8	113.1	120.4
	Cooling (UK)	89.5	96.7	101.1	105.6	111.9
POWER INPUT (kW)	Heating (nominal max)	33.03	33.19	35.04	36.93	38.88
	Cooling (nominal)	38.91	38.84	42.48	46.09	46.99
	High Performance Heating (UK)	37.32	37.50	39.60	41.73	43.93
	COP Priority Heating (UK)	32.04	32.19	33.99	35.82	37.71
	Cooling (UK)	24.90	24.86	27.19	29.50	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 (m^3/min)	High	305 / 305	185 / 270 / 270	185 / 270 / 300	185 / 300 / 300	270 / 270 / 300
PIPE SIZE mm (in)	Gas	41.28 (1-5/8")	41.28 (1-5/8")	41.28 (1-5/8")	41.28 (1-5/8")	41.28 (1-5/8")
	Liquid	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")
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	920 + 1240 + 1240	920 + 1240 + 1240	920 + 1240 + 1240	1240 + 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
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 / 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

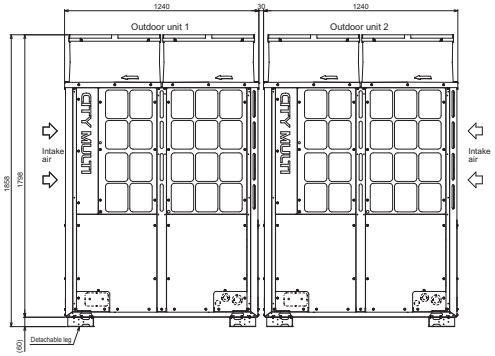
Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.
Nominal Conditions: Cooling; indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB. Nominal Max Conditions: Heating; indoor 20°C DB; outdoor 7°C DB, 6°C WB.
UK Conditions: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

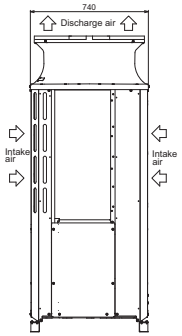


Front View

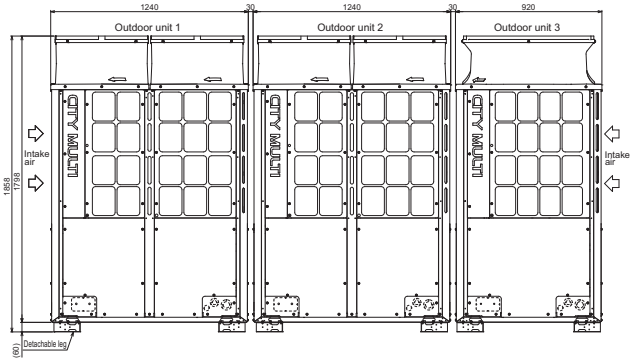


Product Dimensions PUHY-P950/1000/1050YSNW-A2

Side View

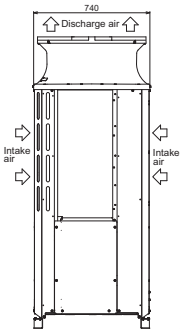


Front View

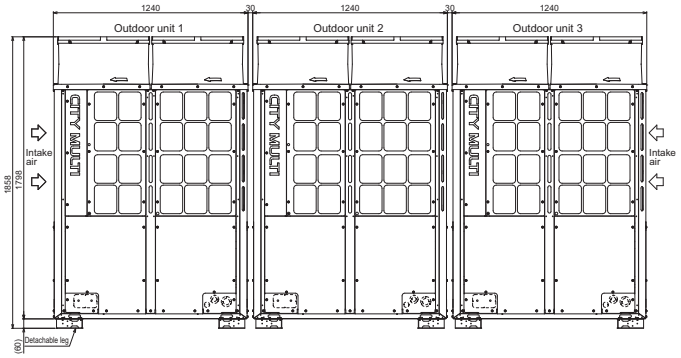


Product Dimensions PUHY-P1100YSNW-A2

Side View



Front View



Y Series VRF (130-150kW)

Heat Pump Outdoor Units (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

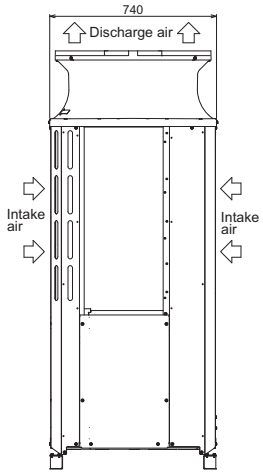
- Energy efficient heat pump system
- Delivers high levels of thermal and acoustic comfort
- Unique 2-pipe system for ease of installation and maintenance
- Adjustable noise level options to suit application
- Connectable to a broad choice of indoor unit types and capacities

R410A

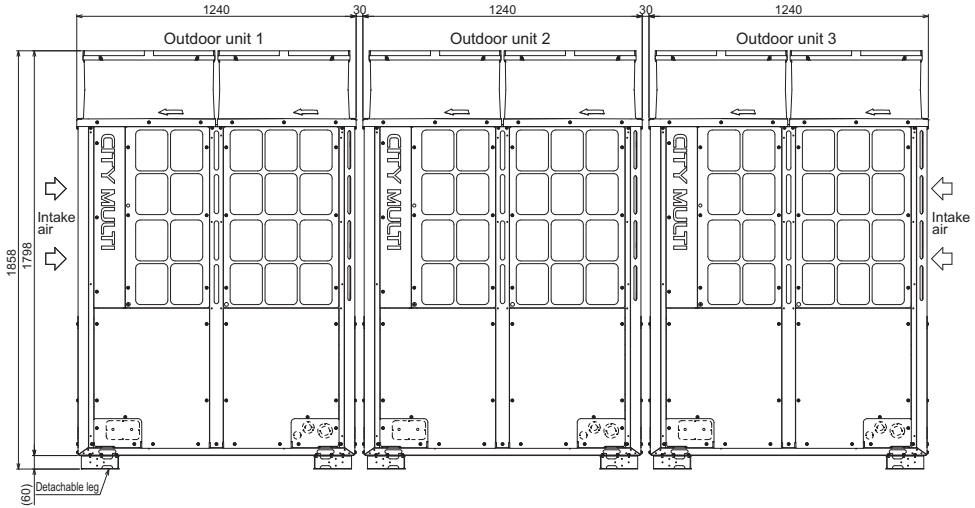
OUTDOOR UNITS		PUHY-P1150YSNW-A2	PUHY-P1200YSNW-A2	PUHY-P1250YSNW-A2	PUHY-P1300YSNW-A2	PUHY-P1350YSNW-A2
CAPACITY (kW)	Heating (nominal max)	145.0	150.0	156.0	162.0	168.0
	Cooling (nominal)	130.0	135.0	140.0	145.0	150.0
	High Performance Heating (UK)	130.5	135.0	140.4	145.8	151.2
	COP Priority Heating (UK)	124.7	129.0	134.2	139.3	144.5
	Cooling (UK)	116.4	120.8	125.3	129.8	134.3
POWER INPUT (kW)	Heating (nominal max)	40.84	42.61	44.95	47.23	49.55
	Cooling (nominal)	50.58	54.43	55.77	57.08	58.36
	High Performance Heating (UK)	46.15	48.15	50.79	53.37	55.99
	COP Priority Heating (UK)	39.61	41.33	43.60	45.81	48.06
	Cooling (UK)	32.37	34.84	35.69	36.53	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 (m^3/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")	41.28 (1-5/8")	41.28 (1-5/8")	41.28 (1-5/8")	41.28 (1-5/8")
	Liquid	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	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	1240 + 1240 + 1240	1240 + 1240 + 1240	1240 + 1240 + 1240	1240 + 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
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 Units



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

R410A

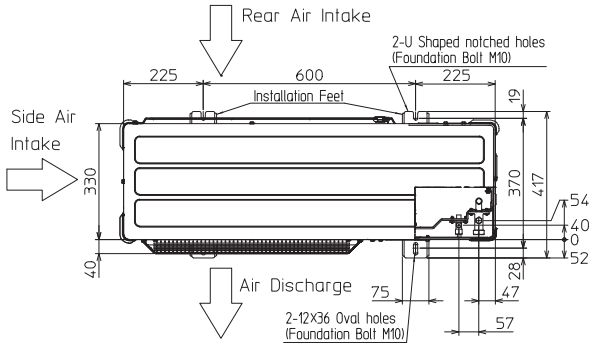
OUTDOOR UNITS		PUMY-SP112VKM3	PUMY-SP112YKM3 [3]	PUMY-SP125VKM3	PUMY-SP125YKM3 [3]	PUMY-SP140VKM3	PUMY-SP140YKM3 [3]
CAPACITY (KW)	Heating (nominal max)	14.0	14.0	16.0	16.0	16.5	16.5
	Cooling (nominal)	12.5	12.5	14.0	14.0	15.5	15.5
	Heating (UK)	14.0	14.0	16.0	16.0	16.5	16.5
	Cooling (UK)	9.8	9.8	11.0	11.0	12.2	12.2
POWER INPUT (KW)	Heating (nominal max)	3.66	3.66	4.31	4.31	4.36	4.36
	Cooling (nominal)	4.46	4.46	5.11	5.11	5.34	5.34
	Heating (UK)	4.69	4.69	5.52	5.52	5.58	5.58
	Cooling (UK)	2.08	2.08	2.38	2.38	2.49	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 (m^3/min)		77	77	83	83	83	83
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")
SOUND PRESSURE LEVEL (dBA)	Cooling	52	52	53	53	54	54
SOUND POWER LEVEL (dBA)	Cooling	72	72	73	73	74	74
WEIGHT (kg)		93	94	93	94	93	94
DIMENSIONS (mm)	Width	1050	1050	1050	1050	1050	1050
	Depth	330+40	330+40	330+40	330+40	330+40	330+40
	Height	981	981	981	981	981	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) R410A (GWP 2088)		3.5 / 7.31	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	9.0 / 18.79

[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-SP112-140VKM3/YKM3
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

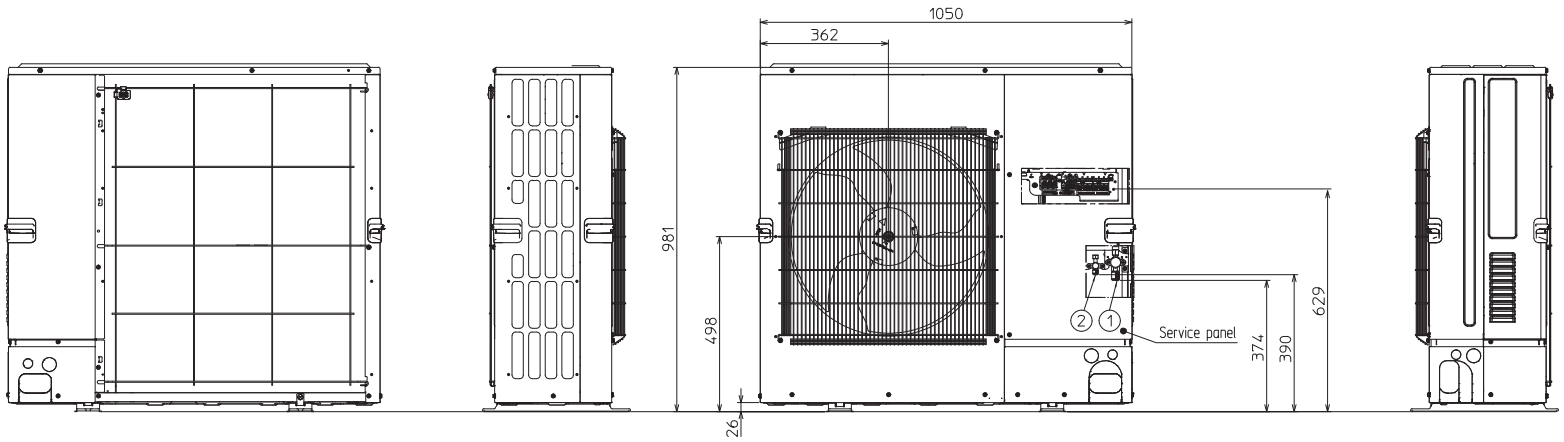


Rear View

Left Side View

Front View

Right Side View



Y Series Twin Fan (12.5-33.5kW)

Mini VRF Heat Pump Outdoor Units





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-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

R410A

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

OUTDOOR UNITS		PUMY-P112VKM7	[3] PUMY-P112YKM7	PUMY-P125VKM7	[3] PUMY-P125YKM7	PUMY-P140VKM7	[3] PUMY-P140YKM7	[3] PUMY-P200YKM4	[3] PUMY-P250YBM3	[3] PUMY-P300YBM3
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	7.24	8.33
	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	9.57	10.99
	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	4.35 / 3.41	4.50 / 2.80
MAX NO. OF CONNECTABLE INDOOR UNITS		9	9	10	10	12	12	12	30	30
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	50-130% OU Capacity	50-130% OU Capacity	50-130% OU Capacity
AIRFLOW (m^3/min)		110	110	110	110	110	110	135.9	183	183
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")	22.2 (7/8")	22.2 (7/8")
	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")	9.52 (3/8")*1	9.52 (3/8")	12.7 (1/2")
SOUND PRESSURE LEVEL (dBA)	Cooling	49	49	50	50	51	51	57	55	57
SOUND POWER LEVEL (dBA)	Cooling	69	69	70	70	71	71	76	73	75
WEIGHT (kg)		125	126	125	126	125	126	139	194	194
DIMENSIONS (mm)	Width	1050	1050	1050	1050	1050	1050	1050	1050	1050
	Depth	330+40	330+40	330+40	330+40	330+40	330+40	330+40	460+45	460+45
	Height	1338	1338	1338	1338	1338	1338	1338	1662	1662
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]	11.24 / 12.74 [28.4]	12.93 / 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 / -5~52	-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	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	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)		13.8 / 28.8	13.8 / 28.8	13.8 / 28.8	13.8 / 28.8	13.8 / 28.8	13.8 / 28.8	10.7 / 22.3	22.8 / 47.6	22.8 / 47.6

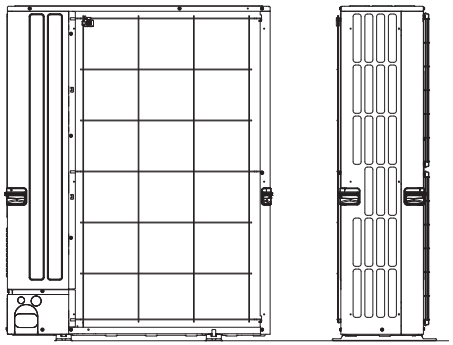
[3] Three Phase

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-P112-140VKM7/YKM7	PUMY-P200YKM4	PUMY-P250-300YBM3
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

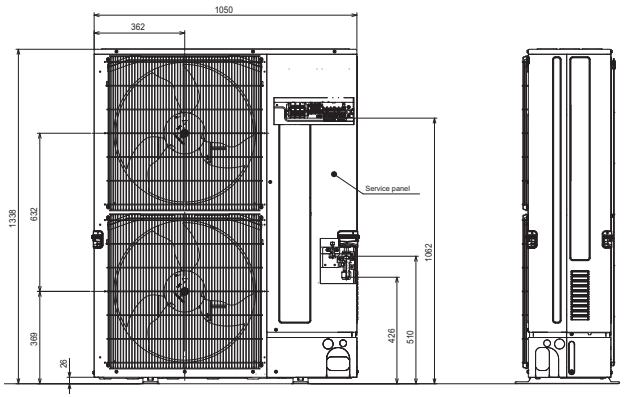
Product Dimensions PUMY-P112/125/140VKM7/YKM7, PUMY-P200YKM4

Rear View



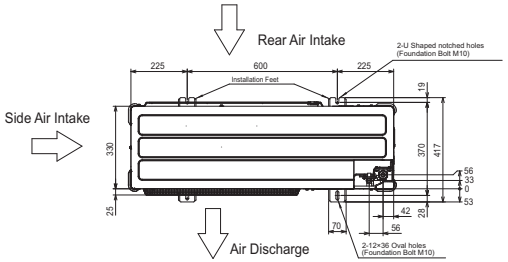
Left Side View

Front View



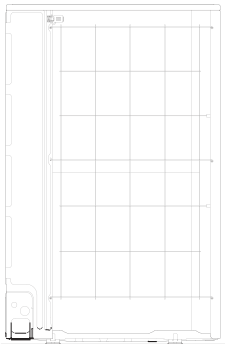
Right Side View

Upper View

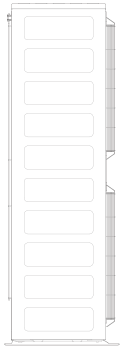


Product Dimensions PUMY-P250/300YBM3

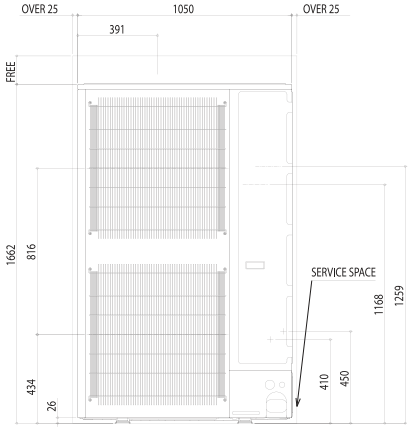
Rear View



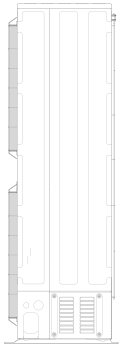
Left Side View



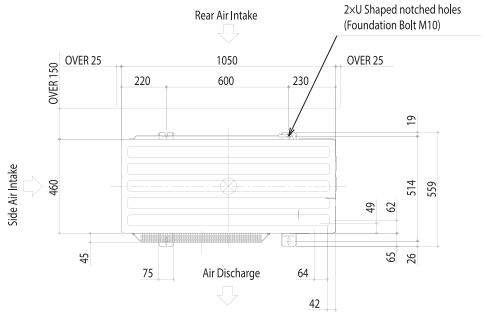
Front View



Right Side View



Upper View



WR2 Series (22.4-56kW)

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







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

R410A

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	31.5	37.5	45.0	50.0	50.0	56.0	56.0	63.0	63.0
	Cooling (nominal)	22.4	28.0	33.5	40.0	45.0	45.0	50.0	50.0	56.0	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	10.16
	Cooling (nominal)	3.71	4.90	6.04	7.14	8.03	7.70	9.29	5.69	11.17	10.12
OPERATING WATER VOLUME (m^3/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 (ºC)	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		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")	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")	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")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")
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)		173	173	173	217	217	173 + 173	217	173 + 173	217	173 + 173
DIMENSIONS (mm)	Width	880	880	880	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	1450	1450	1100	1450	1100	1450	1100
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
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) R410A (GWP 2088)		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
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (t) R410A (GWP 2088)		28.0 / 58.5	30.0 / 62.6	31.0 / 64.7	46.0 / 96.1	47.0 / 98.1	50.0 / 104.4	47.0 / 98.1	51.0 / 106.4	48.0 / 100.2	51.0 / 106.5

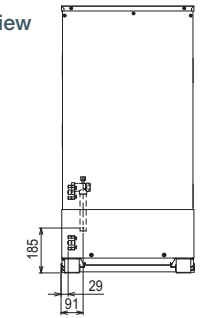
Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard. *1 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules. These products are made to order, please 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	550m max*3 (300m) for sizes 200-300 / 750m max*3 (500m) for sizes 350-500
FURTHEST PIPING LENGTH	165m max
BETWEEN CONDENSING UNIT AND BC CONTROLLER (MAIN) - LENGTH	110m max*4
BETWEEN INDOOR AND BC CONTROLLER (MAIN/SUB) - LENGTH	60m max*5 (40m)
BETWEEN INDOOR AND CONDENSING UNIT - HEIGHT	50m max (40m*1)
BETWEEN INDOOR AND INDOOR - HEIGHT	30m max (20m*2)
BETWEEN INDOOR AND BC CONTROLLER (MAIN/SUB) - HEIGHT	15m max (10m*2)
BETWEEN BC CONTROLLER (MAIN) AND BC CONTROLLER (SUB) - HEIGHT	15m max (10m*6)

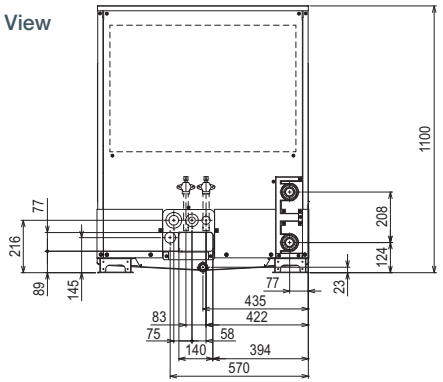
Notes: *1 When condensing unit is below indoor. *2 In case of P200, P250 indoor unit. *3 Distance between condensing unit and BC Controller is 10m or less. *4 Total piping length is 300m or less (500m for sizes 350-500). *5 Height difference between the Main BC Controller and furthest indoor unit is 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-P200/250/300YLM-A1

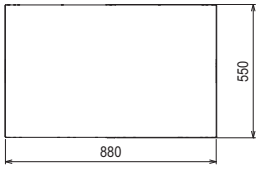
Side View



Front View

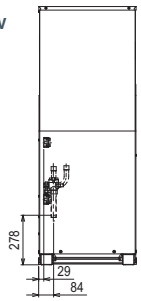


Upper View

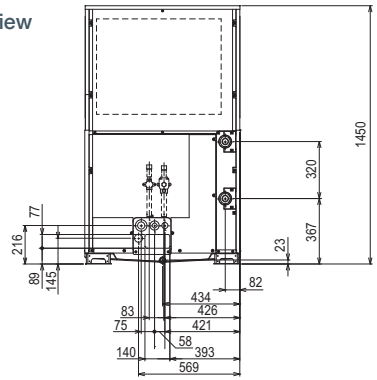


Product Dimensions PQRY-P350/400/450/500YLM-A1

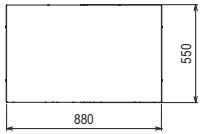
Side View



Front View

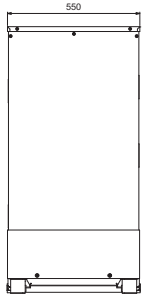


Upper View

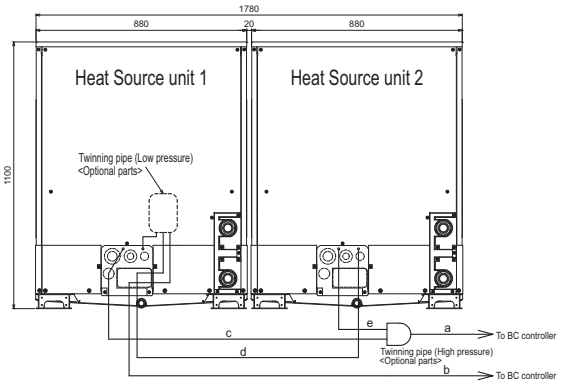


Product Dimensions PQRY-P400/450/500YSLM-A1

Side View



Front View



WR2 Series (63-101kW)

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







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

R410A

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	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 (m^3/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 (ºC)	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")	28.58 (1 1/8")	34.93 (1 3/8")	34.93 (1 3/8")	34.93 (1 3/8")	34.93 (1 3/8")	34.93 (1 3/8")	41.28 (1 5/8")	41.28 (1 5/8")
	Liquid	22.2 (7/8")**	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")
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	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) 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	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	73.0 / 152.4

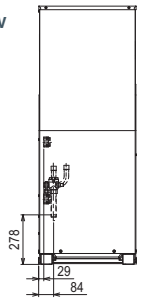
Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard. *1 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules. These products are made to order, please 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*1)
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*5)

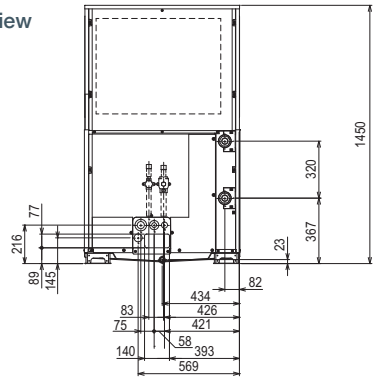
Notes: *1 When condensing unit is below indoor. *2 In case of P200, P250 indoor unit. *3 Distance between condensing unit and BC Controller is 10m or less. *4 Total piping length is 300m or less (500m for sizes 350-500). *5 Height difference between the Main BC Controller and furthest indoor unit is 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

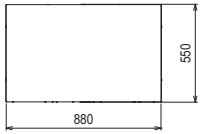
Side View



Front View

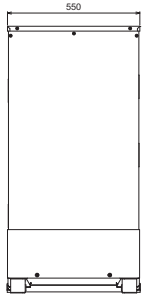


Upper View

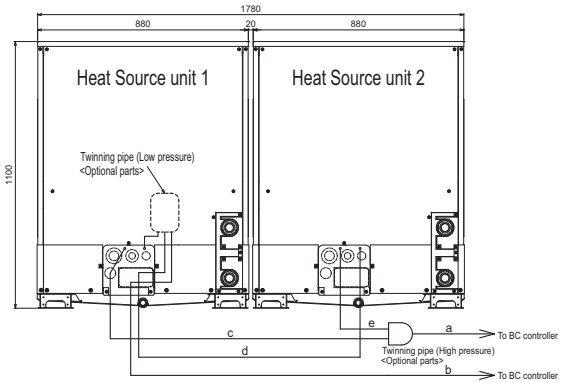


Product Dimensions PQRY-P550/600YSLM-A1

Side View

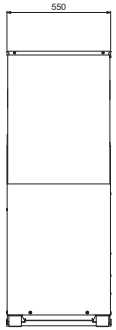


Front View

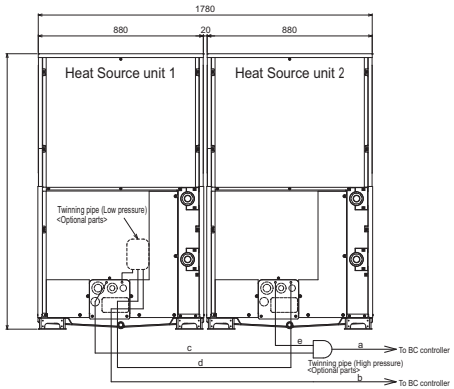


Product Dimensions PQRY-P700/750/800/850/900YSLM-A1

Side View



Front View



WY Series (22.4-56kW)

Heat Pump, Water Cooled Condensing Units







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

R410A

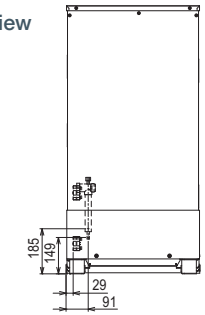
CONDENSING UNITS		PQHY-P200YLM-A1	PQHY-P250YLM-A1	PQHY-P300YLM-A1	PQHY-P350YLM-A1	PQHY-P400YLM-A1	PQHY-P400YSLM-A1	PQHY-P450YLM-A1	PQHY-P450YSLM-A1	PQHY-P500YLM-A1	PQHY-P500YSLM-A1
CAPACITY (kW)	Heating (nominal max)	25.0	31.5	37.5	45.0	50.0	50.0	56.0	56.0	63.0	63.0
	Cooling (nominal)	22.4	28.0	33.5	40.0	45.0	45.0	50.0	50.0	56.0	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	10.16
	Cooling (nominal)	3.71	4.90	6.04	7.14	8.03	7.70	9.29	5.69	11.17	10.12
OPERATING WATER VOLUME (m^3/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")	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")	28.58 (1 1/8")
	Liquid	9.52 (3/8")	9.52 (3/8")**	9.52 (3/8")**	12.7 (1/2")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	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	880	880	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	1450	1450	1100	1450	1100	1450	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) R410A (GWP 2088)		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
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (t) 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

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.

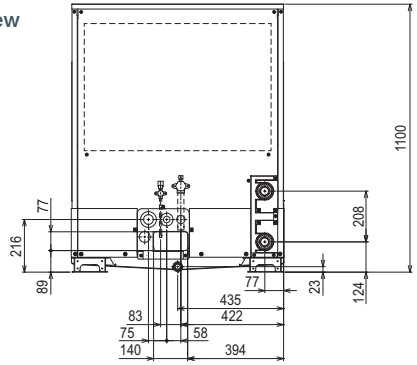
PIPING RESTRICTIONS	PQHY-P200-500Y(S)LM-A1
TOTAL PIPING LENGTH	300m max for sizes 200-300 / 500m for sizes 350-900
FURTHEST PIPING LENGTH	165m max
FURTHEST PIPING LENGTH AFTER 1ST BRANCH	40m max
BETWEEN INDOOR AND OUTDOOR UNITS - HEIGHT	50m max (40m max if outdoor installed below)
BETWEEN INDOOR AND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

Product Dimensions PQHY-P200/250/300YLM-A1

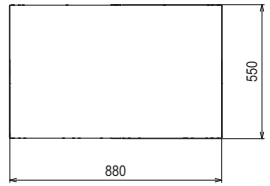
Side View



Front View

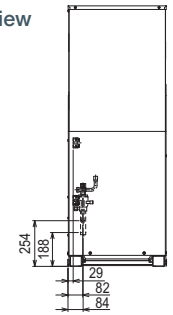


Upper View

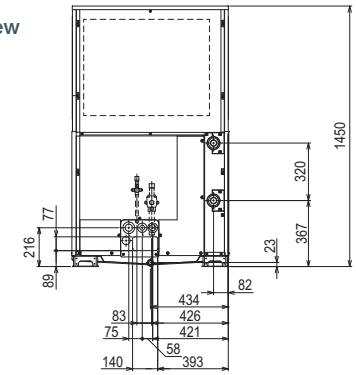


Product Dimensions PQHY-P350/400/450/500YLM-A1

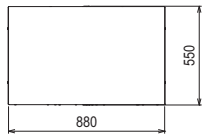
Side View



Front View

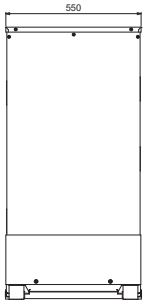


Upper View

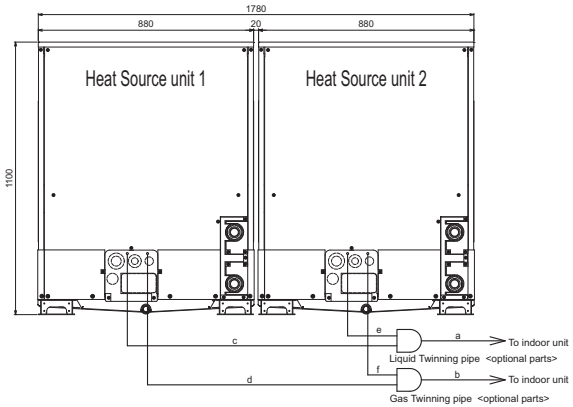


Product Dimensions PQHY-P400/450/500YSLM-A1

Side View



Front View



WY Series (63-101kW)

Heat Pump, Water Cooled Condensing Units







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

R410A

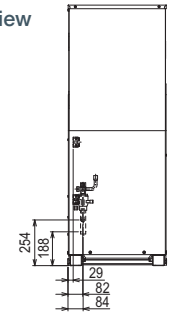
CONDENSING UNITS		PQHY-P550YLM-A1	PQHY-P550YSLM-A1	PQHY-P600YLM-A1	PQHY-P600YSLM-A1	PQHY-P700YSLM-A1	PQHY-P750YSLM-A1	PQHY-P800YSLM-A1	PQHY-P850YSLM-A1	PQHY-P900YSLM-A1
CAPACITY (kW)	Heating (nominal max)	69.0	69.0	76.5	76.5	88.0	95.0	100.0	108.0	113.0
	Cooling (nominal)	63.0	63.0	69.0	69.0	80.0	85.0	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 (m^3/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 (ºC)	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		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%
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")	34.93 (1 3/8")	34.93 (1 3/8")	34.93 (1 3/8")	41.28 (1 5/8")	41.28 (1 5/8")
	Liquid	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")	19.05 (3/4")	19.05 (3/4")
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	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	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) 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	12.0 / 25.1
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (t) 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

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.

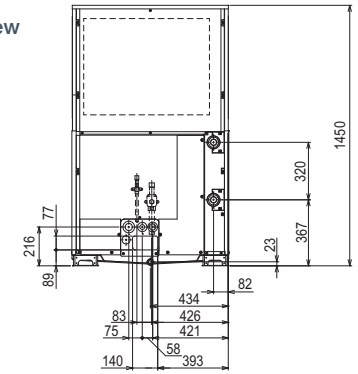
PIPING RESTRICTIONS	PQHY-P550-900Y(S)LM-A1
TOTAL PIPING LENGTH	500m max
FURTHEST PIPING LENGTH	165m max
FURTHEST PIPING LENGTH AFTER 1ST BRANCH	40m max
BETWEEN INDOOR AND OUTDOOR UNITS - HEIGHT	50m max (40m max if outdoor installed below)
BETWEEN INDOOR AND INDOOR UNITS - HEIGHT	15m max

Product Dimensions PQHY-P550/600YLM-A1

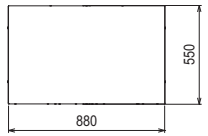
Side View



Front View

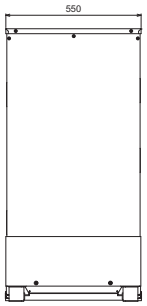


Upper View

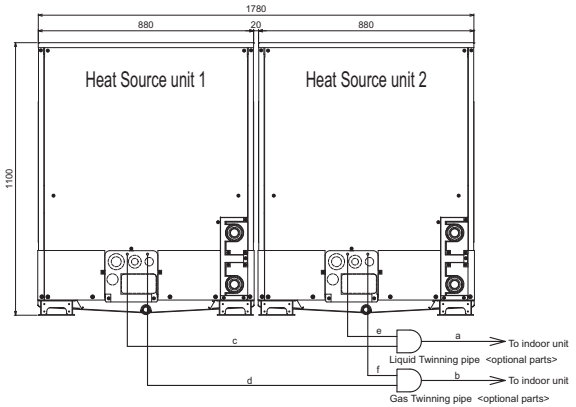


Product Dimensions PQHY-P550/600YSLM-A1

Side View

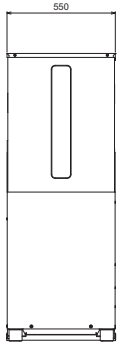


Front View

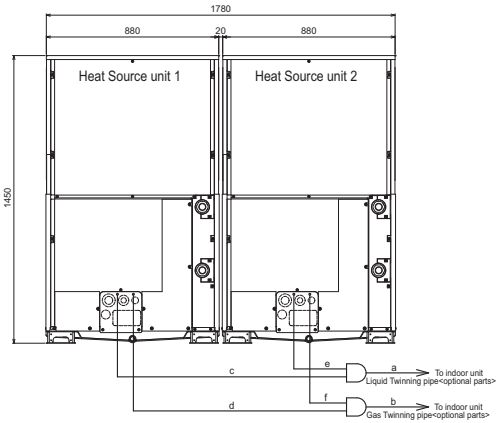


Product Dimensions PQHY-P700/750/800/850/900YSLM-A1

Side View

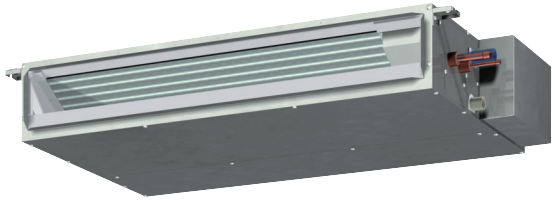


Front View



PEFY-MS-VMS-A

Ultra Thin Ceiling Concealed Ducted Indoor Units



The **PEFY-MS-VMS-A** 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.

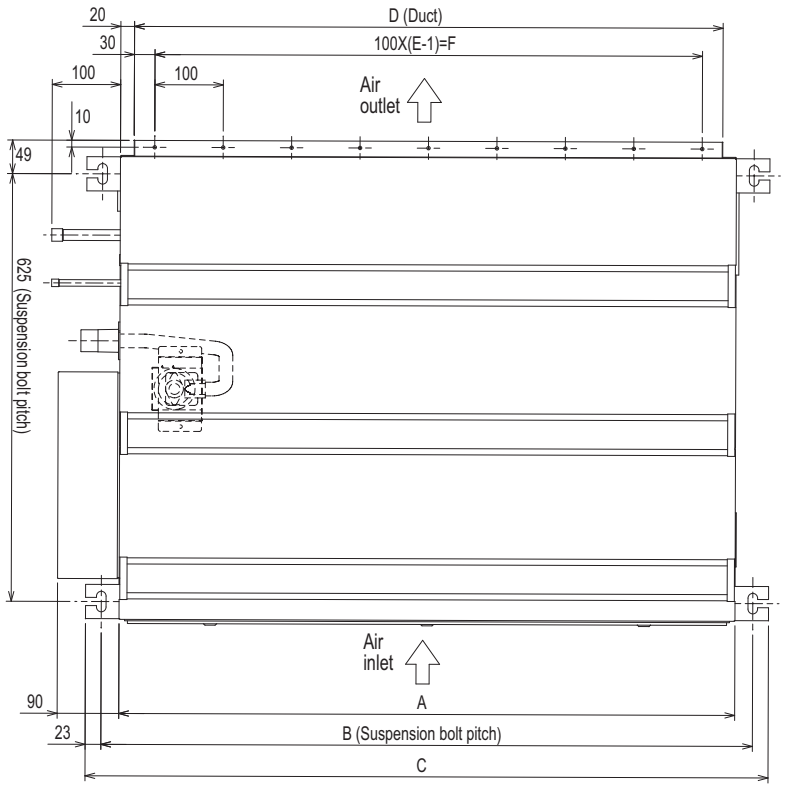
Key Features & Benefits

- Dual Refrigerant Compatibility - compatible with both R32 & R410A refrigerants, making it suitable for a wide range of both retrofit and new build projects
- Enhanced Safety for R32 Applications - built to work with R32 safety measures ensuring compliance with regulation, providing peace of mind
- Optional Low Level Leak Detector (PAC-SL72SA-E) - provides long service life, easy maintenance and supports compliance and safety regulations
- Compact Low-Height Design (200mm) - ideal for tight ceiling voids where space is limited
- Three Fan Speed Options - offers a wide range of airflow settings, providing greater flexibility in air distribution to suit different room sizes and layouts
- External Static Pressure Range (5-50Pa) - ensures consistent performance across various ductwork designs, offering installation flexibility
- Low Noise Operation (22dBA) - utilises a centrifugal fan for quiet performance, creating a more comfortable indoor environment
- Integrated Drain Pump - supplied as standard to simplify installation and ensure reliable condensate removal
- Available in a 1.5kW size - perfect for hotel rooms, ensuring comfortable, energy-efficient operation with 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

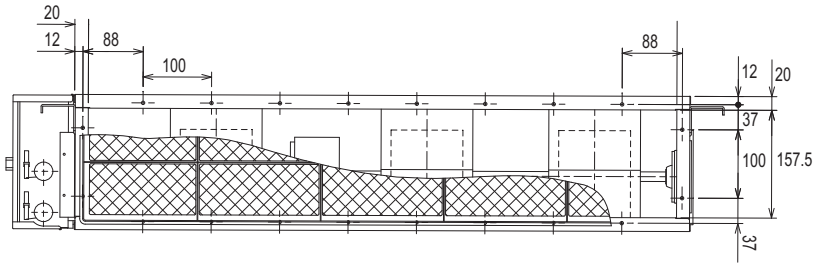
R32 R410A

INDOOR UNITS		PEFY-MS15VMS-A	PEFY-MS20VMS-A	PEFY-MS25VMS-A	PEFY-MS32VMS-A	PEFY-MS40VMS-A	PEFY-MS50VMS-A	PEFY-MS63VMS-A
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)	4.00 (3.00)	5.00 (3.80)	6.40 (4.90)
	UK Total Cooling - Mi	1.44	1.89	2.32	2.94	3.85	4.52	5.67
	UK Total Cooling - Lo	1.34	1.76	2.07	2.57	3.61	4.22	5.27
POWER INPUT (kW)	Heating (nominal)	0.030	0.035	0.042	0.062	0.050	0.080	0.100
	Cooling (nominal)	0.032	0.037	0.044	0.064	0.052	0.082	0.102
AIRFLOW (l/s)	Lo-Mi-Hi	83-100-117	92-108-133	92-117-150	100-133-175	133-158-183	167-208-250	200-267-333
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
SOUND PRESSURE LEVEL (dBA)	Lo-Mi-Hi	22-24-28	23-25-29	23-26-30	23-28-34	28-30-33	30-34-37	30-35-40
WEIGHT (kg)		18.5	19.0	19.0	20.0	23.5	23.5	27.0
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
PHASE		Single	Single	Single	Single	Single	Single	Single
RUNNING CURRENT (A)	Heating / Cooling	0.31 / 0.36	0.35 / 0.40	0.39 / 0.44	0.58 / 0.63	0.45 / 0.50	0.66 / 0.71	0.76 / 0.81
FUSE RATING (BS88) - HRC (A)		6	6	6	6	6	6	6
MAINS CABLE No. Cores		3	3	3	3	3	3	3

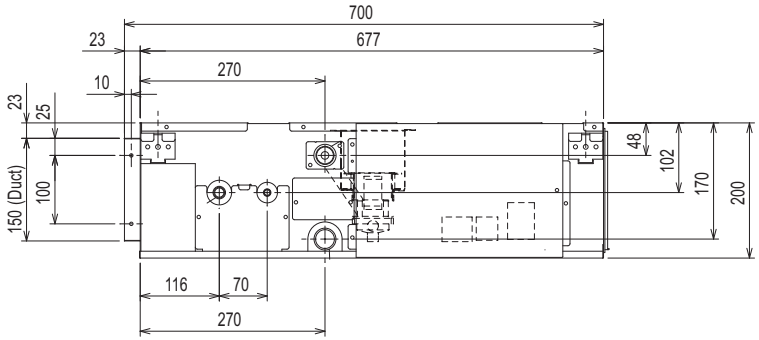
Upper View



Front View



Side View



Model	A	B	C	D	E	F
PEFY-MS15-32VMS-A	700	752	798	660	7	600
PEFY-MS40-50VMS-A	900	952	998	860	9	800
PEFY-MS63VMS-A	1100	1152	1198	1060	11	1000

PEFY-MS-VMA-A1

Ceiling Concealed Ducted Indoor Units



The **PEFY-MS-VMA-A1** ducted indoor unit is concealed within the ceiling space to allow unobtrusive air conditioning. Flexibility of duct layout allows air flow patterns to be arranged to suit any application.

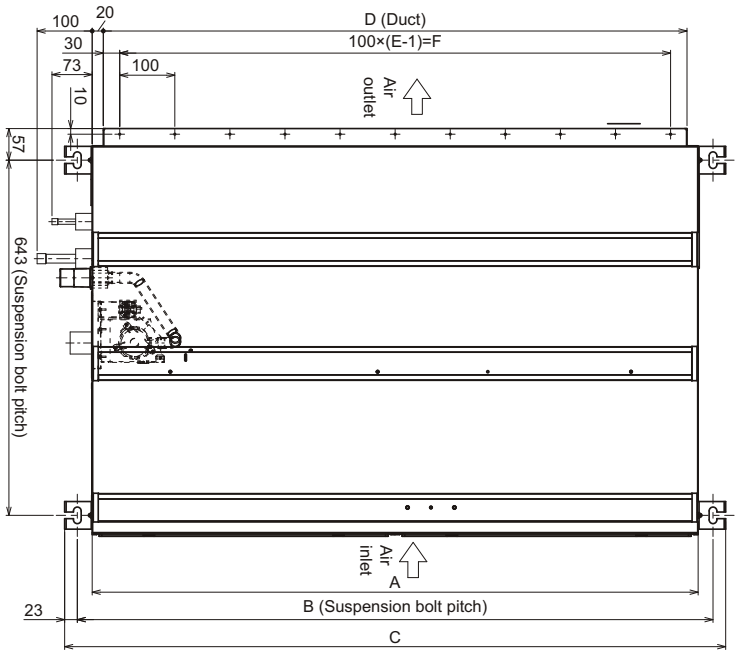
Key Features & Benefits

- Dual Refrigerant Compatibility - compatible with both R32 & R410A refrigerants, making it suitable for a wide range of both retrofit and new build projects
- Enhanced Safety for R32 Applications - built to work with R32 safety measures ensuring compliance with regulation, providing peace of mind
- Optional Low Level Leak Detector (PAC-SL72SA-E) - provides long service life, easy maintenance and supports compliance and safety regulations
- Additional Fan Speed Options - offers a wide range of airflow settings, providing greater flexibility in air distribution to suit different room sizes and layout
- High Sensible Cooling Capacity - delivers improved airflow and better off-coil temperatures, enhancing occupant comfort
- Compact Low-Height Design (250mm) - ideal for tight ceiling voids where space is limited
- Wide External Static Pressure Range (35–150Pa) - ensures consistent performance across various ductwork designs, offering installation flexibility
- Low Noise Operation - utilises a centrifugal fan for quiet performance, creating a more comfortable indoor environment
- Integrated Drain Pump - supplied as standard to simplify installation and ensure reliable condensate removal
- CN105 Connector Compatibility - easily connects to the 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

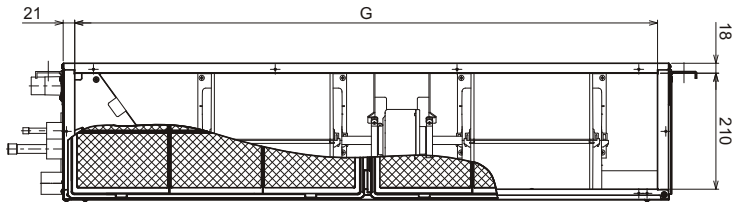
R32 R410A

INDOOR UNITS			PEFY-MS20VMA-A1	PEFY-MS25VMA-A1	PEFY-MS32VMA-A1	PEFY-MS40VMA-A1	PEFY-MS50VMA-A1	PEFY-MS63VMA-A1	PEFY-MS80VMA-A1	PEFY-MS100VMA-A1	PEFY-MS125VMA-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)	4.00 (3.60)	5.00 (4.80)	6.40 (5.40)	8.10 (7.20)	10.00 (8.40)	12.50 (9.70)
	UK Total Cooling - Mi1		1.92	2.40	3.06	3.57	4.27	5.79	7.07	9.64	12.27
	UK Total Cooling - Mi2		1.77	2.22	2.88	3.31	3.99	5.31	6.55	9.17	11.92
	UK Total Cooling - Lo		1.65	2.06	2.61	3.07	3.69	4.87	5.81	8.38	11.01
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	100-116-142-166	100-116-142-166	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
	Heating	Lo-Mi2-Mi1-Hi	100-116-142-166	100-116-142-166	123-150-175-208	166-191-225-316	208-241-275–426	225–266–320–516	241–300–350–610	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
SOUND PRESSURE LEVEL (dBA)	Cooling	Lo-Mi2-Mi1-Hi	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
	Heating	Lo-Mi2-Mi1-Hi	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		700	700	700	900	1100	1100	1400	1400	1400
	Depth		732	732	732	732	732	732	732	732	732
	Height		250	250	250	250	250	250	250	250	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
PHASE			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
MAINS CABLE No. Cores			3	3	3	3	3	3	3	3	3

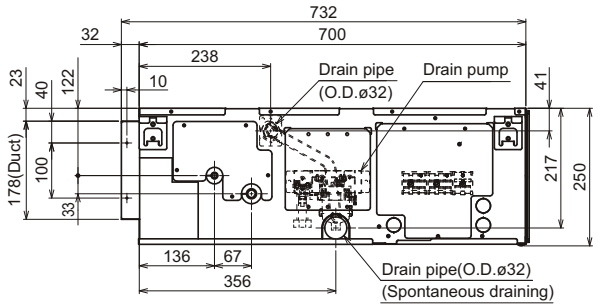
Upper View



Front View



Side View

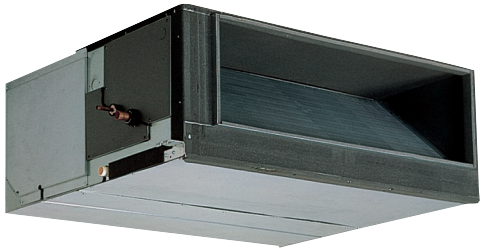


Model	A	B	C	D	E	F	G
PEFY-M20,25,32VMA-A1	700	754	800	660	7	600	658
PEFY-M40VMA-A1	900	954	1000	860	9	800	858
PEFY-M50,63VMA-A1	1100	1154	1200	1060	11	1000	1058
PEFY-M80,100,125VMA-A1	1400	1454	1500	1360	14	1300	1358

PEFY-MS-VMHS-A

High Static Pressure Ceiling Concealed Ducted Indoor Units





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

Key Features & Benefits

- Dual Refrigerant Compatibility - compatible with both R32 & R410A refrigerants, making it suitable for a wide range of both retrofit and new build projects
- Enhanced Safety for R32 Applications - built to work with R32 safety measures ensuring compliance with regulation, providing peace of mind
- Optional Low Level Leak Detector (PAC-SL72SA-E) - provides long service life, easy maintenance and supports compliance and safety regulations
- Three Fan Speed Options - offers a wide range of airflow settings, providing greater flexibility in air distribution to suit different room sizes and layouts
- High External Static Pressure Range (Up to 250Pa) - ensures consistent performance across longer ductwork designs, offering installation flexibility
- Low Noise Operation - utilises a centrifugal fan for quiet performance, creating a more comfortable indoor environment
- Optional Drain Pump - for reliable condensate removal up to 550mm of lift, enabling greater piping design freedom

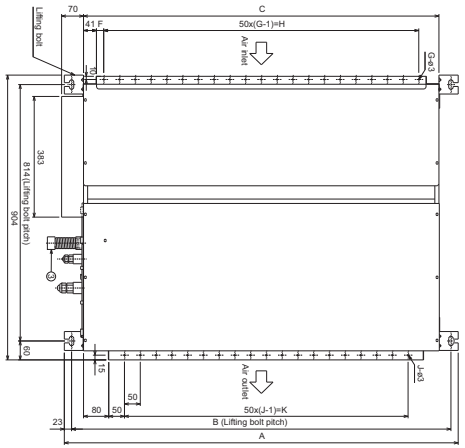
R32 R410A

INDOOR UNITS		PEFY-MS80VMHS-A	PEFY-MS100VMHS-A	PEFY-MS125VMHS-A	PEFY-MS140VMHS-A	PEFY-MS200VMHS-A	PEFY-MS250VMHS-A
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 (6.30)	10.00 (8.40)	12.50 (10.50)	14.30 (11.40)	20.20 (15.60)	25.20 (19.30)
	UK Total Cooling - Mi	7.79	9.55	11.11	13.05	19.33	24.10
	UK Total Cooling - Lo	7.27	8.86	10.14	11.93	17.84	22.21
POWER INPUT (kW)	Heating (nominal)	0.09	0.16	0.283	0.286	0.63	0.91
	Cooling (nominal)	0.09	0.16	0.283	0.286	0.63	0.91
AIRFLOW (l/s)	Lo-Mi-Hi	300-358-417	442-533-633	467-567-758	467-567-758	833-1017-1200	967-1183-1400
EXTERNAL STATIC PRESSURE (Pa)		50-100-150-200	50-100-150-200	50-100-150-200	50-100-150-200	100-150-200-250	100-150-200-250
SOUND PRESSURE LEVEL (dBA)	Lo-Mi-Hi	26.5-28.5-31	28-32-35.5	28.5-33-40	29-33.5-41	40-45-49	42.5-47.5-51.5
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	1.78 / 1.78	1.77 / 1.77	3.33 / 3.33	4.37 / 4.37
FUSE RATING (BS88) - HRC (A)		6	6	6	6	6	6
MAINS CABLE No. Cores		3	3	3	3	3	3

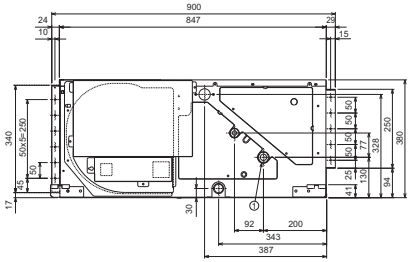
Notes: PEFY-MS200/250VMHS-A indoor units are not compatible with PUMY-SM, PUMY-SP and PUMY-P100-140VKM7/YKM7 outdoor units.

Product Dimensions PEFY-MS80/100/125/140VMHS-A

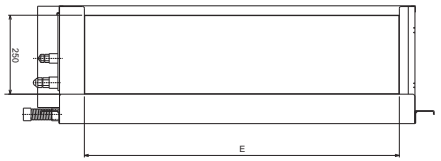
Upper View



Side View



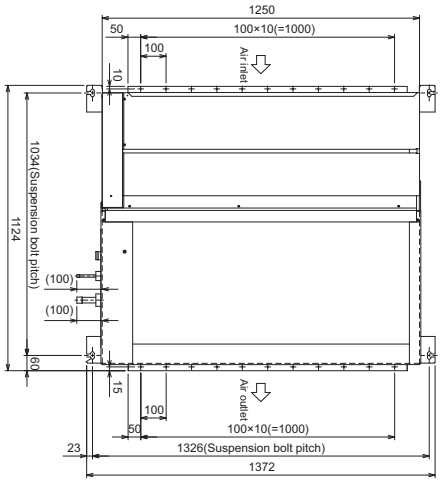
Front View



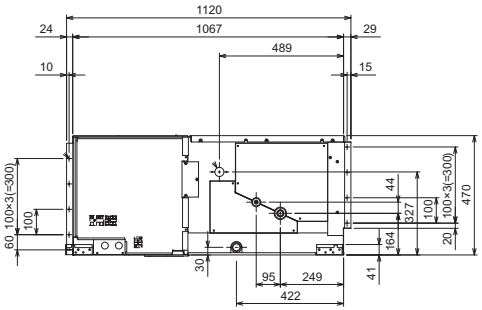
Model	A	B	C	E	F	G	H	J	K
PEFY-MS80VMHS-A	1085	1039	965	835	42.5	17	800	15	700
PEFY-MS100-140VMHS-A	1250	1204	1130	1000	25	21	1000	19	900

Product Dimensions PEFY-MS200/250VMHS-A

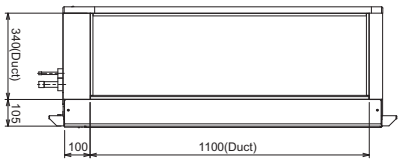
Upper View



Side View



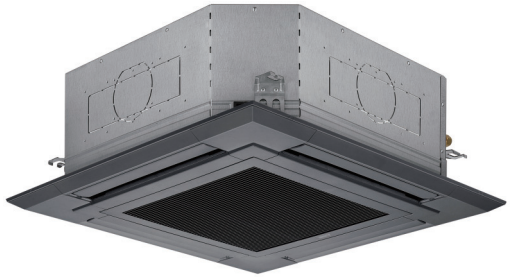
Front View



PLFY-MS-VEM2-E

4-Way Blow Ceiling Cassette Indoor Units





The **PLFY-MS-VEM2-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.

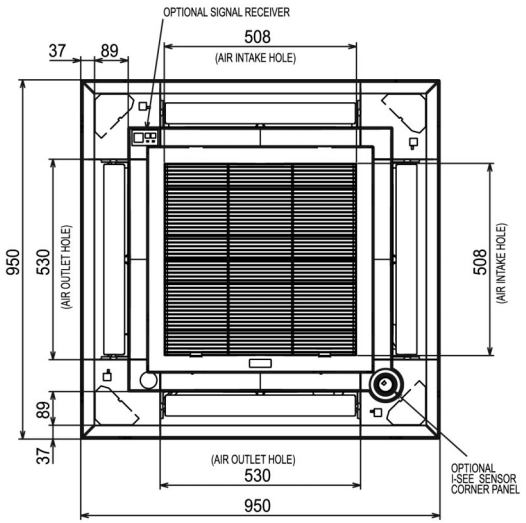
Key Features & Benefits

- Dual Refrigerant Compatibility - compatible with both R32 & R410A refrigerants, making it suitable for a wide range of both retrofit and new build projects
- Enhanced Safety for R32 Applications - built to work with R32 safety measures ensuring compliance with regulation, providing peace of mind
- Optional Low Level Leak Detector (PAC-SL72SA-E) - provides long service life, easy maintenance and supports compliance and safety regulations
- High Sensible Cooling Capacity - combines enhanced airflow with improved off-coil temperatures to deliver superior cooling performance and optimal occupant comfort
- Optional 3D i-see Sensor Grille (PLP-6EAE) - uses advanced sensors to detect room occupancy, position, and body temperature, automatically adjusting airflow and temperature for personalised comfort and energy efficiency
- Optional Filter Lowering Mechanism (PLP-6EAJ) - allows filters to be lowered up to 4 metres for easy maintenance and cleaning, reducing service time and effort
- Optional Black (matt finish) Grille (PLP-6EAB) - ideal for applications with exposed ceiling designs or stylish aesthetics
- Optional V Blocking Filter (PAC-SK53KF-E) - provides in-room air purification, neutralises viruses, bacteria, allergens, dust and mould for a healtheir indoor environment
- 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

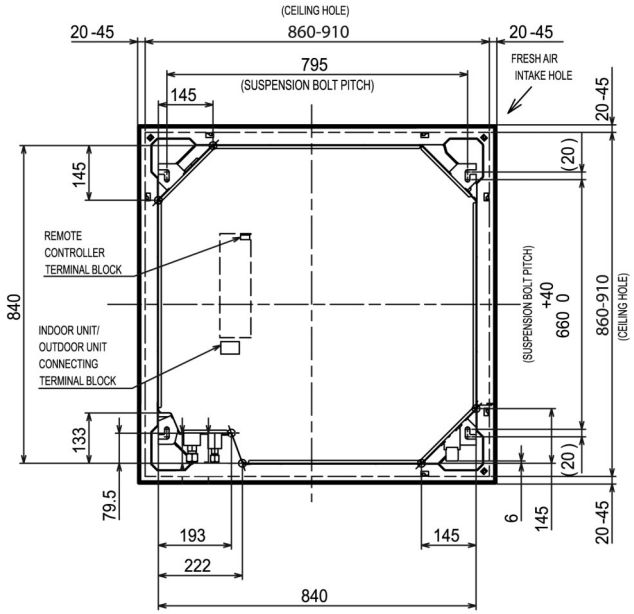
R32 R410A

INDOOR UNITS		PLFY-MS32VEM2-E	PLFY-MS40VEM2-E	PLFY-MS50VEM2-E	PLFY-MS63VEM2-E	PLFY-MS80VEM2-E	PLFY-MS100VEM2-E	PLFY-MS125VEM2-E
CAPACITY (kW)	Heating (nominal)	4.4	5.0	6.3	8.0	10.0	12.5	16.0
	Cooling (nominal)	3.6	4.5	5.6	7.1	9.0	11.2	14.0
	UK Heating	4.0	5.0	6.3	8.0	10.0	12.5	16.0
	UK Total Cooling - Hi (Sensible)	3.20 (3.00)	4.00 (3.50)	5.00 (4.10)	6.40 (4.90)	8.10 (6.20)	10.00 (7.60)	12.50 (9.50)
	UK Total Cooling - Mi1	3.16	3.88	4.86	6.22	7.82	9.74	12.01
	UK Total Cooling - Mi2	3.09	3.79	4.63	6.09	7.35	9.34	11.37
	UK Total Cooling - Lo	3.02	3.69	4.50	5.93	6.72	8.81	10.54
POWER INPUT (kW)	Heating (nominal)	0.03	0.03	0.03	0.03	0.05	0.07	0.11
	Cooling (nominal)	0.03	0.03	0.03	0.03	0.05	0.07	0.11
AIRFLOW (l/s)	Lo-Mi2-Mi1-Hi	217-233-250-267	217-233-250-283	217-233-267-300	233-250-267-300	233-283-333-383	333-383-433-483	367-433-500-583
SOUND PRESSURE LEVEL (dBA)	Lo-Mi2-Mi1-Hi	26-27-29-31	26-27-29-31	26-27-29-31	28-29-30-32	28-31-34-37	34-37-39-41	35-39-42-45
WEIGHT (kg)	(Grille)	19 (5)	19 (5)	19 (5)	21 (5)	21 (5)	24 (5)	24 (5)
DIMENSIONS (mm)	Width (Grille)	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)
	Depth (Grille)	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)
	Height (Grille)	258 (40)	258 (40)	258 (40)	258 (40)	258 (40)	298 (40)	298 (40)
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 / 0.32	0.25 / 0.32	0.25 / 0.32	0.29 / 0.36	0.43 / 0.50	0.60 / 0.67	0.99 / 1.06
FUSE RATING (BS88) - HRC (A)		6	6	6	6	6	6	6
MAINS CABLE No. Cores		3	3	3	3	3	3	3
GRILLE MODEL REFERENCE	White	PLP-6EA	PLP-6EA	PLP-6EA	PLP-6EA	PLP-6EA	PLP-6EA	PLP-6EA
	Black Matt	PLP-6EAB	PLP-6EAB	PLP-6EAB	PLP-6EAB	PLP-6EAB	PLP-6EAB	PLP-6EAB
V BLOCKING FILTER		PAC-SK53KF-E	PAC-SK53KF-E	PAC-SK53KF-E	PAC-SK53KF-E	PAC-SK53KF-E	PAC-SK53KF-E	PAC-SK53KF-E
3D I-SEE SENSOR GRILLE		PLP-6EAE	PLP-6EAE	PLP-6EAE	PLP-6EAE	PLP-6EAE	PLP-6EAE	PLP-6EAE
SELF-ELEVATING GRILLE		PLP-6EAJ	PLP-6EAJ	PLP-6EAJ	PLP-6EAJ	PLP-6EAJ	PLP-6EAJ	PLP-6EAJ

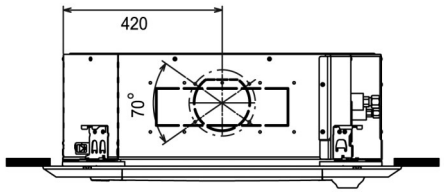
Lower View



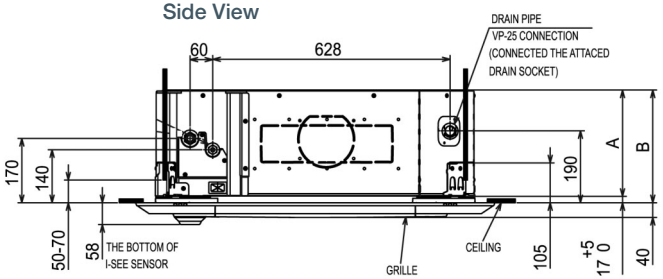
Upper View



Front View



Side View



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

PLFY-MS-VFM2-E

600x600 4-Way Blow Ceiling Cassette Indoor Units





The **PLFY-MS-VFM2-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.

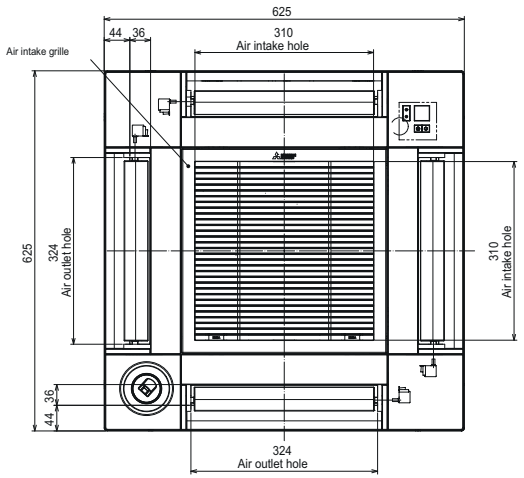
Key Features & Benefits

- Dual Refrigerant Compatibility - compatible with both R32 & R410A refrigerants, making it suitable for a wide range of both retrofit and new build projects
- Enhanced Safety for R32 Applications - built to work with R32 safety measures ensuring compliance with regulation, providing peace of mind
- Stylish Square Slimline Design (245mm height) - fits easily into narrow ceiling spaces, providing a sleek and unobtrusive appearance
- Low Noise Operation - 3D turbo fan design reduces sound levels, ensuring quiet performance and minimal disturbance for occupants
- Enhanced Comfort - advanced airflow control delivers even temperature distribution and improved overall comfort throughout the room
- Easy Installation and Maintenance - features a temporary hanging hook on the grille and tool-free access to the corner panel and control box, simplifying installation and servicing
- Optional 3D i-see Sensor Grille (SLP-2FAE) - uses advanced sensors to detect room occupancy, position, and body temperature, automatically adjusting airflow and temperature for personalised comfort and energy efficiency
- Optional Black Satin Grille (SLP-2FA-B) - ideal for applications with exposed ceiling designs or stylish aesthetics
- Optional V Blocking Filter (PAC-SK54KF-E) - provides in-room air purification, neutralises viruses, bacteria, allergens, dust and mould for a healtheir indoor environment

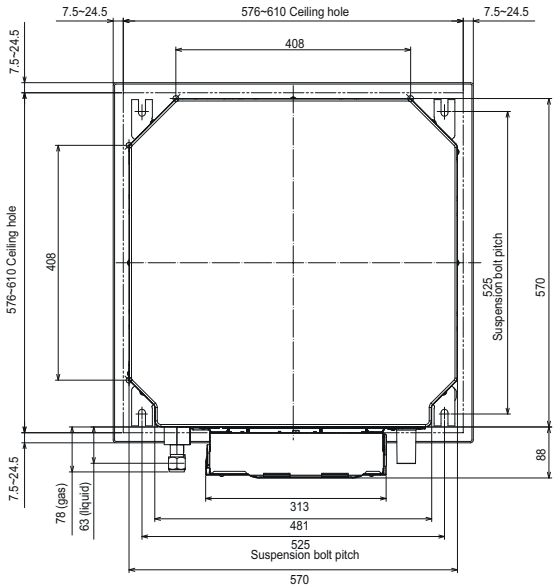
R32 R410A

INDOOR UNITS		PLFY-MS15VFM2-E	PLFY-MS20VFM2-E	PLFY-MS25VFM2-E	PLFY-MS32VFM2-E	PLFY-MS40VFM2-E	PLFY-MS50VFM2-E
CAPACITY (kW)	Heating (nominal)	1.9	2.5	3.2	4.0	5.0	6.3
	Cooling (nominal)	1.7	2.2	2.8	3.6	4.5	5.6
	UK Heating	1.9	2.5	3.2	4.0	5.0	6.3
	UK Total Cooling - Hi (Sensible)	1.50 (1.30)	2.00 (1.60)	2.50 (2.00)	3.20 (2.40)	4.00 (2.90)	5.00 (3.60)
	UK Total Cooling - Mi	1.48	1.94	2.43	3.06	3.78	4.78
	UK Total Cooling - Lo	1.41	1.84	2.24	2.91	3.51	4.41
POWER INPUT (kW)	Heating (nominal)	0.02	0.02	0.02	0.02	0.03	0.04
	Cooling (nominal)	0.02	0.02	0.02	0.02	0.03	0.04
AIRFLOW (l/s)	Lo-Mi-Hi	108-125-133	108-125-142	108-133-150	117-133-158	125-150-183	150-183-217
SOUND PRESSURE LEVEL (dBA)	Lo-Mi-Hi	26-28-30	26-29-31	26-30-33	26-30-34	28-33-39	33-39-43
WEIGHT (kg)	(Grille)	13 (3)	13 (3)	13 (3)	14 (3)	14 (3)	14 (3)
DIMENSIONS (mm)	Width (Grille)	570 (625)	570 (625)	570 (625)	570 (625)	570 (625)	570 (625)
	Depth (Grille)	570 (625)	570 (625)	570 (625)	570 (625)	570 (625)	570 (625)
	Height (Grille)	208 (10)	208 (10)	208 (10)	208 (10)	208 (10)	208 (10)
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	0.16 / 0.21	0.17 / 0.22	0.18 / 0.23	0.19 / 0.24	0.23 / 0.28	0.35 / 0.40
FUSE RATING (BS88) - HRC (A)		6	6	6	6	6	6
MAINS CABLE No. Cores		3	3	3	3	3	3
GRILLE MODEL REFERENCE	White	SLP-2FA	SLP-2FA	SLP-2FA	SLP-2FA	SLP-2FA	SLP-2FA
	Black Satin	SLP-2FA-B	SLP-2FA-B	SLP-2FA-B	SLP-2FA-B	SLP-2FA-B	SLP-2FA-B
V BLOCKING FILTER		PAC-SK54KF-E	PAC-SK54KF-E	PAC-SK54KF-E	PAC-SK54KF-E	PAC-SK54KF-E	PAC-SK54KF-E
3D I-SEE SENSOR GRILLE		SLP-2FAE	SLP-2FAE	SLP-2FAE	SLP-2FAE	SLP-2FAE	SLP-2FAE

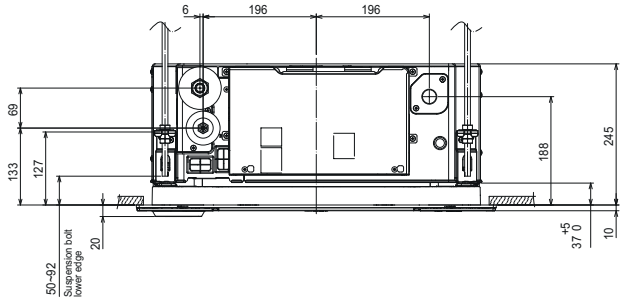
Upper View



Lower View



Side View



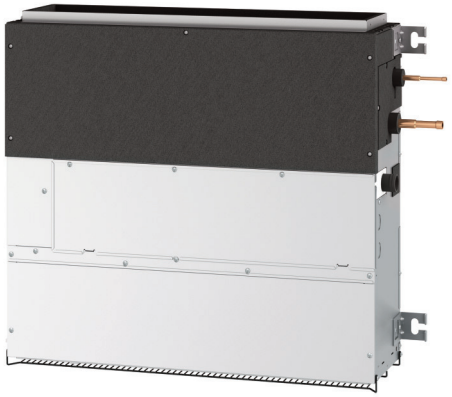
PFFY-P-VCM-E

Floor Standing Concealed Indoor Units

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.

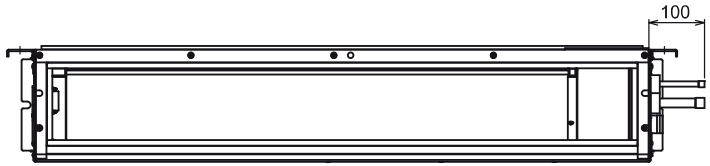
Key Features & Benefits

- 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

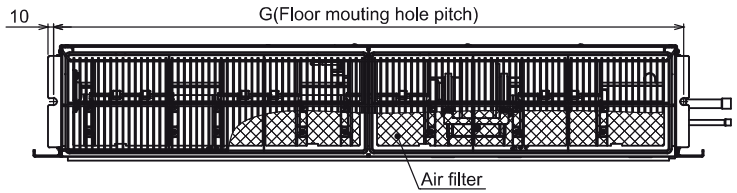


INDOOR UNITS		PFFY-P20VCM-E	PFFY-P25VCM-E	PFFY-P32VCM-E	PFFY-P40VCM-E	PFFY-P50VCM-E	PFFY-P63VCM-E
CAPACITY (kW)	Heating (nominal)	2.5	3.2	4.0	5.0	6.3	8.0
	Cooling (nominal)	2.2	2.8	3.6	4.5	5.6	7.1
	UK Heating	2.5	3.2	4.0	5.0	6.3	8.0
	UK Total Cooling - Hi (Sensible)	2.00 (1.60)	2.50 (1.90)	3.20 (2.40)	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
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
PHASE		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
MAINS CABLE No. Cores		3	3	3	3	3	3

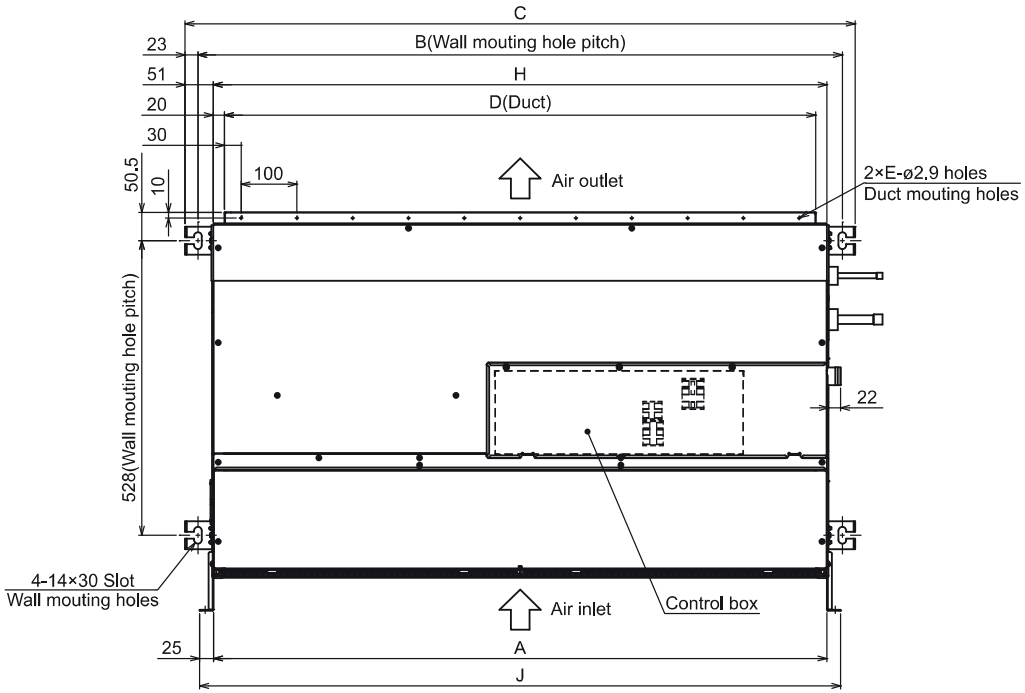
Upper View



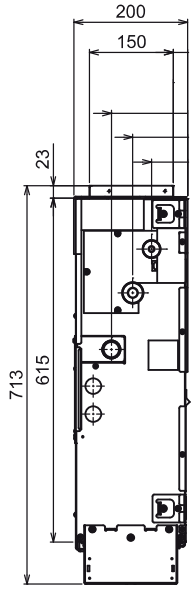
Lower View



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-VEM-E

Floor Standing Exposed Indoor Units

The **PFFY-P-VEM-E** floor standing exposed unit is a stylish and quiet, compact cased unit that provides simple, effective air conditioning in perimeter zones. Constructed in a robust casement, and with a depth of only 217mm, it offers a flexible solution for applciations such as offices, retail, high end residential and hospitals.

Key Features & Benefits

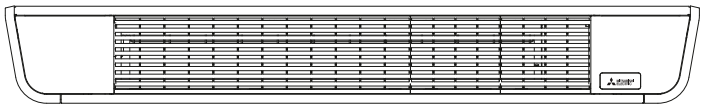
- Perimeter air conditioning for retrofit applications where ceiling void not available
- Compact and stylish design in clear white and pearl grey, blends in with any interior
- DC fan motor and improved heat exchanger design, optimises system efficiency, allowing for low power consumption and running costs
- Wide airflow range with three fan settings (Low-Mid-High) for customised comfort
- Quiet operation as low as 23dBA, for minimal disturbance
- Can be floor mounted or wall mounted for better installation options
- Built-in housing for the remote controller on the unit chassis for convenient control
- Refrigerant pipe can be connected from the bottom or rear of the unit enabling improved installation flexibility

R410A

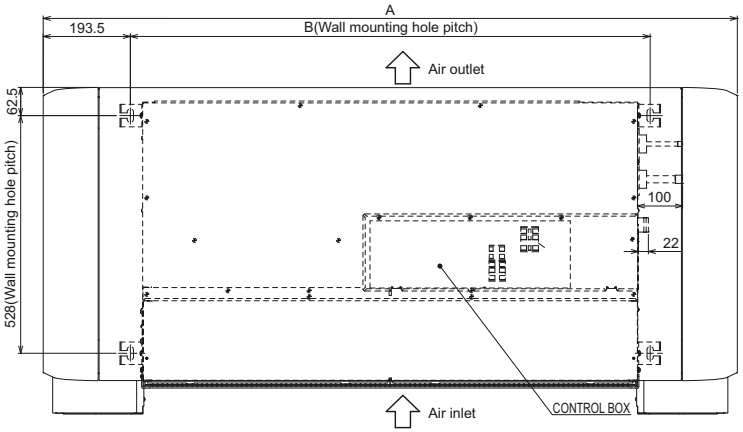


INDOOR UNTS		PFFY-P20VEM-E	PFFY-P25VEM-E	PFFY-P32VEM-E	PFFY-P40VEM-E	PFFY-P50VEM-E	PFFY-P63VEM-E
CAPACITY (kW)	Heating (nominal)	2.5	3.2	4.0	5.0	6.3	8.0
	Cooling (nominal)	2.2	2.8	3.6	4.5	5.6	7.1
	UK Heating	2.5	3.2	4.0	5.0	6.3	8.0
	UK Total Cooling - Hi (Sensible)	2.00 (1.60)	2.50 (1.90)	3.20 (2.30)	4.00 (3.00)	5.00 (3.70)	6.40 (4.70)
	UK Total Cooling - Mi	1.92	2.36	3.03	3.85	4.80	6.13
	UK Total Cooling - Lo	1.78	2.20	2.74	3.61	4.55	5.77
POWER INPUT (kW)	Heating (nominal)	0.021	0.026	0.031	0.037	0.054	0.061
	Cooling (nominal)	0.021	0.026	0.031	0.037	0.054	0.061
AIRFLOW (l/s)	Lo-Mi-Hi	83-100-117	92-108-133	92-117-142	133-158-183	167-192-225	200-233-275
SOUND PRESSURE LEVEL (dBA)	Lo-Mi-Hi	23-27-31	25-29-34	25-31-36	29-33-36	34-37-41	32-36-40
WEIGHT (kg)		29.5	29.5	30	35	35	39.5
DIMENSIONS (mm)	Width	1142	1142	1142	1342	1342	1542
	Depth	217	217	217	217	217	217
	Height	726	726	726	726	726	726
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	0.25 / 0.25	0.30 / 0.30	0.35 / 0.35	0.38 / 0.38	0.56 / 0.56	0.50 / 0.50
FUSE RATING (BS88) - HRC (A)		6	6	6	6	6	6
MAINS CABLE No. Cores		3	3	3	3	3	3

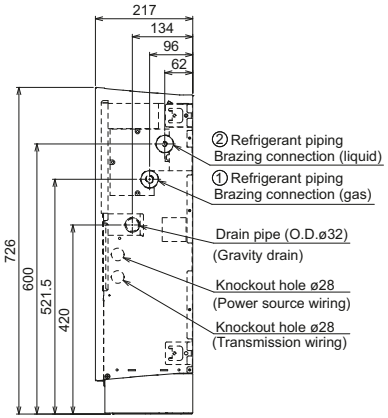
Upper View



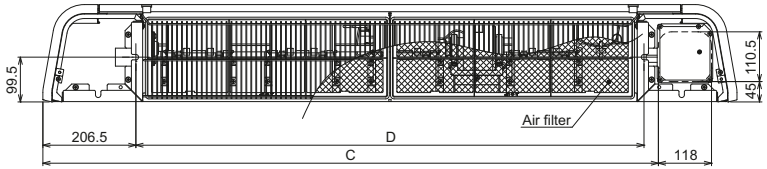
Front View



Side View



Lower View



Model	A	B	C	D	①Gas pipe	② Liquid pipe
PFFY-P20·25·32VEM-E	1142	755	967.5	729	ø12.7	ø6.35
PFFY-P40·50VEM-E	1342	955	1167.5	929		
PFFY-P63VEM-E	1542	1155	1367.5	1129	ø15.88	ø9.52

PFFY-P-VKM-E

Floor Standing Exposed Indoor Units

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

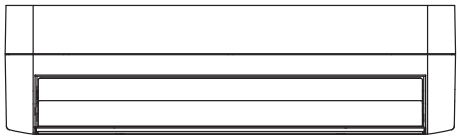
- White, slimline design for easy installation
- Upper and lower vanes for optimum, powerful and efficient air distribution

R410A

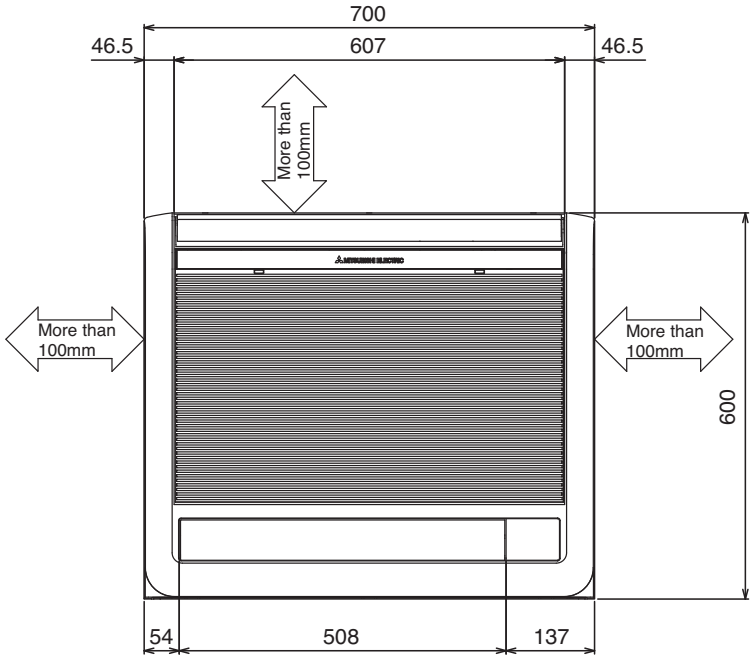


INDOOR UNITS		PFFY-P20VKM-E	PFFY-P25VKM-E	PFFY-P32VKM-E	PFFY-P40VKM-E
CAPACITY (kW)	Heating (nominal)	2.5	3.2	4.0	5.0
	Cooling (nominal)	2.2	2.8	3.6	4.5
	UK Heating	2.5	3.2	4.0	5.0
	UK Total Cooling - Hi (Sensible)	2.00 (1.60)	2.50 (1.90)	3.20 (2.30)	4.10 (2.90)
	UK Total Cooling - Mi1	1.94	2.42	3.10	3.98
	UK Total Cooling - Mi2	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-Mi2-Mi1-Hi	98-113-127-145	102-117-133-152	102-117-133-152	133-150-158-178
SOUND PRESSURE LEVEL (dBA)	Lo-Mi2-Mi1-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
RUNNING CURRENT (A)	Heating / Cooling	0.20 / 0.20	0.20 / 0.20	0.20 / 0.20	0.24 / 0.24
FUSE RATING (BS88) - HRC (A)		6	6	6	6
MAINS CABLE No. Cores		3	3	3	3

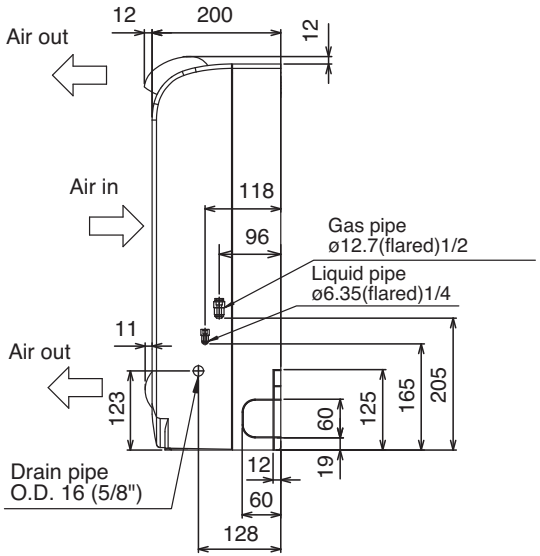
Upper View



Front View



Side View



PKFY-MS-VLM2-E / PKFY-MS-VKM2-E

Wall Mounted Indoor Units







The elegant, compact design of the **PKFY-MS** 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

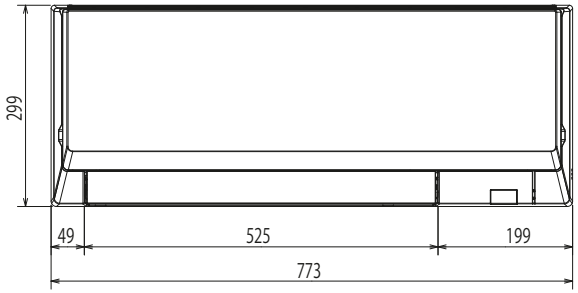
- Dual Refrigerant Compatibility - compatible with both R32 & R410A refrigerants, making it suitable for a wide range of both retrofit and new build projects
- Enhanced Safety for R32 Applications - built to work with R32 safety measures ensuring compliance with regulation, providing peace of mind
- Optional Low Level Leak Detector (PAC-SL72SA-E) - provides long service life, easy maintenance and supports compliance and safety regulations
- Compact Flat Panel Design - only 773mm wide (sizes 10-32), for unobtrusive installation for exposed applications
- Wide Vane Control - enhancing comfort with improved air distribution within a room
- Low Noise Levels - as low as 22dBA, ensuring minimal disturbance in occupied areas
- 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 R410A

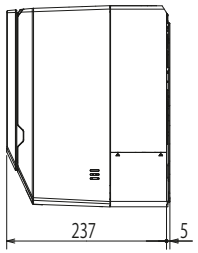
INDOOR UNITS		PKFY-MS10VLM2-E	PKFY-MS15VLM2-E	PKFY-MS20VLM2-E	PKFY-MS25VLM2-E	PKFY-MS32VLM2-E	PKFY-MS40VLM2-E	PKFY-MS50VLM2-E	PKFY-MS63VKM2-E
CAPACITY (kW)	Heating (nominal)	1.4	1.9	2.5	3.2	4.0	5.0	6.3	8.0
	Cooling (nominal)	1.2	1.7	2.2	2.8	3.6	4.5	5.6	7.1
	UK Heating	1.4	1.9	2.5	3.2	4.0	5.0	6.3	8.0
	UK Total Cooling - Hi (Sensible)	1.10 (0.80)	1.50 (1.10)	2.00 (1.40)	2.50 (1.80)	3.20 (2.40)	4.00 (2.90)	5.00 (3.70)	6.40 (5.00)
	UK Total Cooling - Mi1	1.07	1.48	1.96	2.35	3.03	3.84	4.73	-
	UK Total Cooling - Mi2	1.04	1.46	1.88	2.20	2.73	3.63	4.33	-
	UK Total Cooling - Lo	1.02	1.44	1.82	2.05	2.43	3.37	3.92	6.01
POWER INPUT (kW)	Heating (nominal)	0.01	0.01	0.01	0.02	0.03	0.03	0.04	0.04
	Cooling (nominal)	0.02	0.02	0.02	0.03	0.04	0.04	0.05	0.05
AIRFLOW (l/s)	Lo-Mi2-Mi1-Hi	55-58-63-70	67-70-73-78	67-73-82-90	67-77-90-112	72-90-115-140	105-123-143-167	113-138-170-207	267-333
SOUND PRESSURE LEVEL (dBA)	Lo-Mi2-Mi1-Hi	22-24-26-28	22-24-26-28	22-26-29-31	22-27-31-35	24-31-37-41	29-34-37-40	31-36-41-46	39-42
WEIGHT (kg)		11	11	11	11	11	13	13	21
DIMENSIONS (mm)	Width	773	773	773	773	773	898	898	1170
	Depth	237	237	237	237	237	237	237	295
	Height	299	299	299	299	299	299	299	365
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	0.15 / 0.20	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 / 0.40
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

Product Dimensions PKFY-MS10/15/20/25/32VLM2-E

Front View

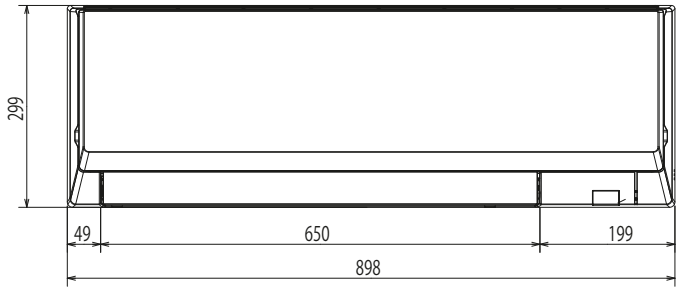


Side View

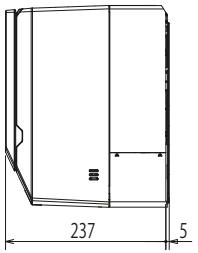


Product Dimensions PKFY-MS40/50VLM2-E

Front View

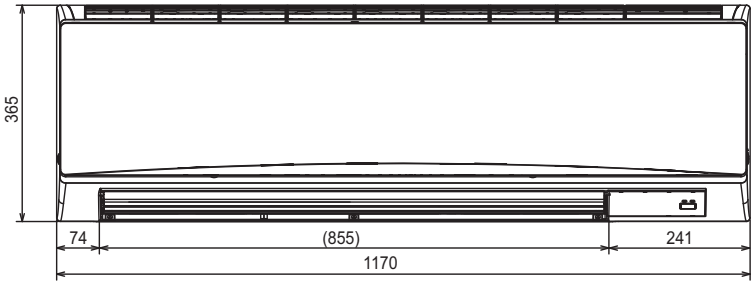


Side View

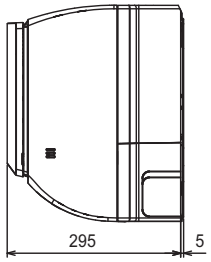


Product Dimensions PKFY-MS63VKM2-E

Front View



Side View



PCFY-MS-VKM2-E

Ceiling Suspended Indoor Units



Designed for ultra-quiet operation and easy maintenance, the **PCFY-MS-VKM2-E** provides comfortable air conditioning for a wide range of applications where floor or wall space cannot be used practically.

Key Features & Benefits

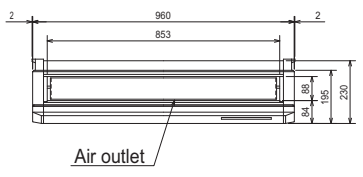
- Dual Refrigerant Compatibility - compatible with both R32 & R410A refrigerants, making it suitable for a wide range of both retrofit and new build projects
- Enhanced Safety for R32 Applications - built to work with R32 safety measures ensuring compliance with regulation, providing peace of mind
- Optional Low Level Leak Detector (PAC-SL72SA-E) - provides long service life, easy maintenance and supports compliance and safety regulations
- Direct Ceiling Suspension Design - ideal for areas with limited wall or floor space, enabling installation flexibility
- Flush-to-Wall Installation - neat and discreet fit that conceals service connections for a clean, professional installation
- Flexible Drain Piping Options - drainage can be connected from either the left or right side, giving flexibility on installation design

R32 R410A

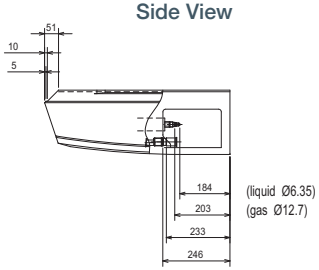
INDOOR UNITS		PCFY-MS40VKM2-E	PCFY-MS63VKM2-E	PCFY-MS100VKM2-E	PCFY-MS125VKM2-E
CAPACITY (kW)	Heating (nominal)	5.0	8.0	12.5	16.0
	Cooling (nominal)	4.5	7.1	11.2	14.0
	UK Heating	5.0	8.0	12.5	16.0
	UK Total Cooling - Hi (Sensible)	4.00 (3.00)	6.40 (4.60)	10.00 (7.10)	12.50 (8.80)
	UK Total Cooling - Mi1	3.93	6.22	9.84	12.07
	UK Total Cooling - Mi2	3.82	6.09	9.61	11.57
	UK Total Cooling - Lo	3.69	5.93	9.13	10.92
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-Mi2-Mi1-Hi	167–183–200–217	233–250–267–300	350–400–433–467	350-400-450-517
SOUND PRESSURE LEVEL (dBA)	Lo-Mi2-Mi1-Hi	29-32-34-36	31-33-35-37	36-38-41-43	36-39-42-44
WEIGHT (kg)		25	32	37	39
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

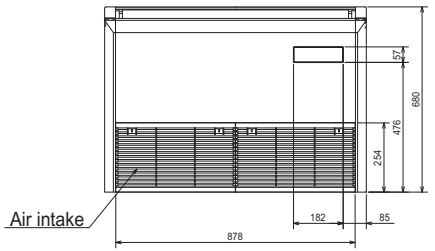
Product Dimensions PCFY-MS40VKM2-E

Front View



Side View

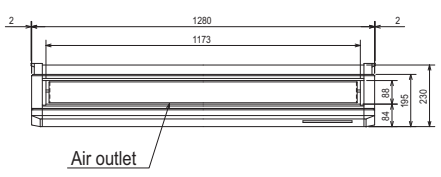




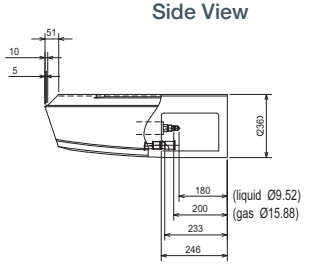
Lower View

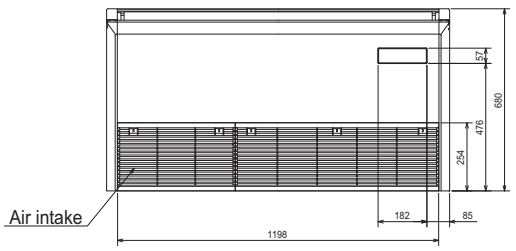
Product Dimensions PCFY-MS63VKM2-E

Front View



Side View

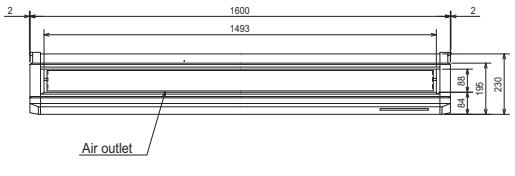




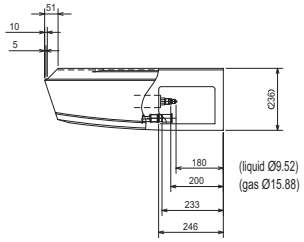
Lower View

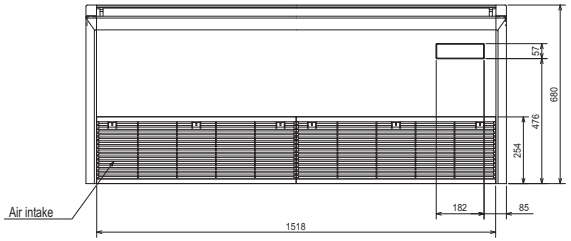
Product Dimensions PCFY-MS100/125VKM2-E

Front View



Side View





Lower View

PWFY-P-VM-E1-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

R410A R134a



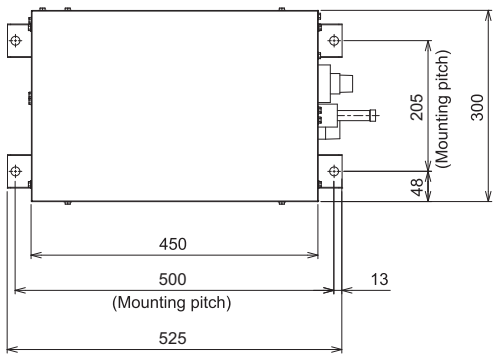
SANITARY WATER HEATER		PWFY-P100VM-E1-BU
CAPACITY (kW)	Hot water (nominal)*1	12.5
	Hot water (UK)*2	8.0
POWER INPUT (kW)		2.48
COMPATIBLE OUTDOOR / CONDENSING UNITS		PURY / PQRY
PIPE SIZE mm (in)	Gas	15.88 (5/8")
	Liquid	9.52 (3/8")
	Water Connection	PT 3/4 Screw
	Water pipe size	28
SOUND PRESSURE LEVEL (dBA)		44
MAX WATER TEMPERATURE (°C)		70
OPTIMUM WATER FLOW RATE (m^3/h)		1.5
WATER PRESSURE DROP AT OPTIMUM FLOW RATE (kPa)		22.5
WEIGHT (kg)		63
DIMENSIONS (mm)	Width	450
	Depth	300
	Height	848 (833 without legs)
ELECTRICAL SUPPLY		220-240v, 50Hz
PHASE		Single
RUNNING CURRENT (A)		10.66
FUSE RATING (BS88) - HRC (A)		25
MAINS CABLE No. Cores		3
CHARGE REFRIGERANT (kg) / CO_2 EQUIVALENT (t) R134a (GWP 1430)		1.1 / 1.6

Notes:

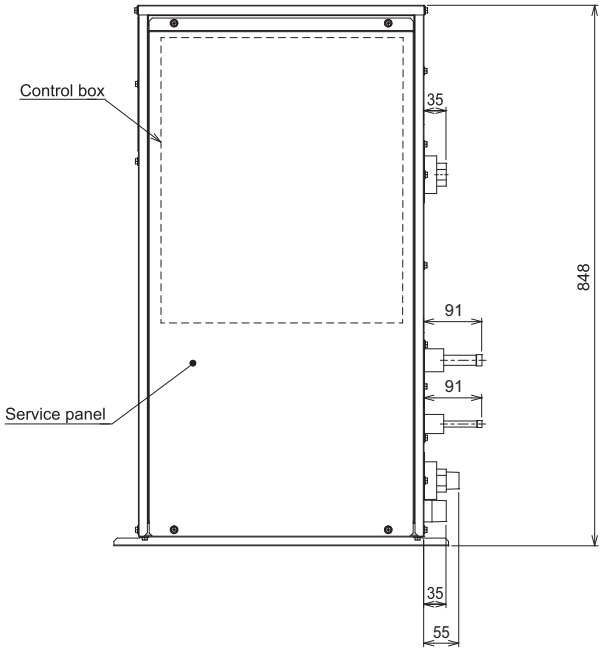
*1 Nominal conditions: Outdoor 7/6°C , 65°C inlet water temperature, 1.5m^3/h water flow rate, 7.5m refrigerant pipe. (Please note this is a spot condition and not capacity over tank heat up).

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

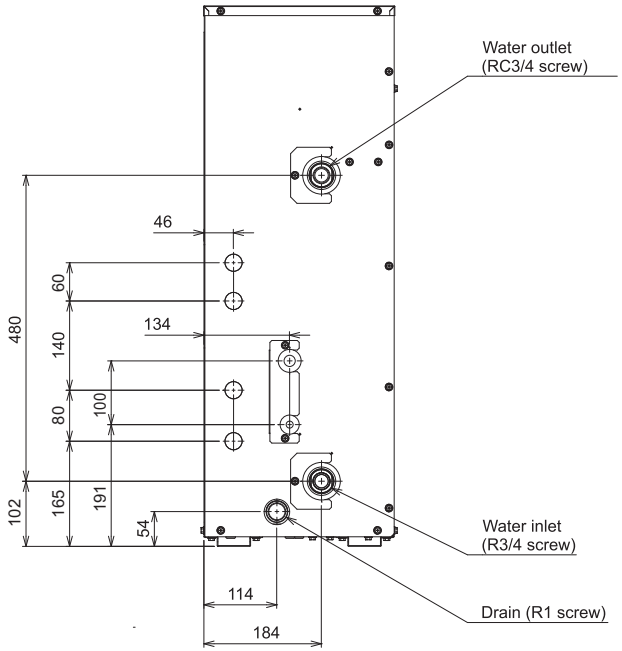
Upper View



Front View

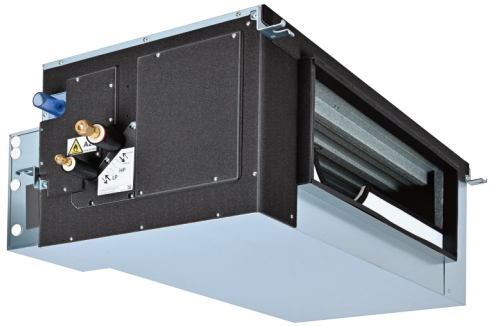


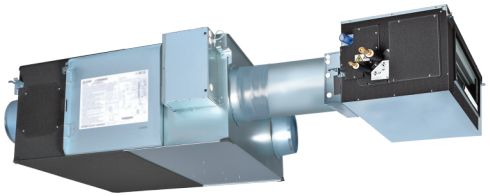
Side View



GUX-MS-E

Lossnay Outdoor Air Processing Units





Designed to work seamlessly with City Multi YXM VRF and the Lossnay RVX(T)3 MVHR ranges, the **GUX-MS-E** delivers treated outdoor air with confidence. The DX coil provides heated or cooled fresh air into commerical applications improving comfort, simplifying design and giving installers and specifiers the reassurance of one trusted Mitsubishi Electric system.

Key Features & Benefits

- Seamless Air Treatment System - GUX units connect with City Multi YXM and Lossnay RVX(T)3 ranges to deliver a simple, effective solution for heated or cooled fresh air supply
- Lower GWP R32 Refrigerant - for reduced carbon impact and future-ready legislation compliance
- Optional Low Level Leak Detector (PAC-SL72SA-E) - provides long service life, easy maintenance and supports compliance and safety regulations
- Wide Airflow Capability (500–2500 m³/h) - delivers high airflow without the size, weight, or installation demands of traditional AHUs, enabling solutions where space is limited
- Flexible Air Control - supports return air temperature control with or without supply air temperature limit capabilities, enabling the right approach for each building while maintaining occupant comfort
- Outdoor Air Temperature Conditioning - provides greater control of incoming fresh air temperature, improving comfort and supporting flexible system design

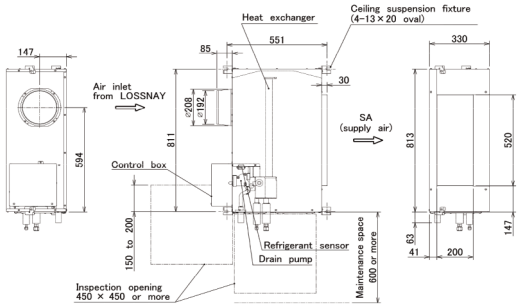
R32 R410A

MODEL		GUX-MS32-E		GUX-MS50-E		GUX-MS80-E		GUX-MS100-E
COMPATIBLE LOSSNAY(S) MVHR		LGH-50RVX3-E	LGH-65RVX3-E	LGH-80RVX3-E	LGH-100RVX3-E	LGH-160RVX(T)3-E	LGH-200RVX(T)3-E	LGH-250RVXT3-E
COIL CAPACITY (kW)*1	Heating (Nominal)	3.2	4.0	5.0	6.3	8.0	10.0	12.5
	Cooling (Nominal)	2.8	3.6	4.5	5.6	7.1	9.0	11.2
	UK Heating	3.2	4.0	5.0	6.3	8.0	10.0	12.5
	UK Cooling	2.5	3.2	4.0	5.0	6.4	8.1	10.0
POWER INPUT (kW)	Heating (Nominal)	0.0025		0.0025		0.0025		0.0025
	Cooling (Nominal)	0.0124		0.0124		0.0124		0.0124
COIL OPERATIONAL AIRFLOW RANGE (l/s)		97 - 222		144 - 322		222 - 625		222 - 778
REQUIRED LOSSNAY FAN SETTING (%)		70 - 100		65 - 100		50 - 100		35 - 100
VENTILATION AIRFLOW RANGE (l/s)*2		67 - 222		67 - 322		67 - 625		67 - 778
DUCT SPIGOT SIZE (mm)	Inlet	200 Round		250 Round		650 x 250		650 x 250
	Outlet	520 x 200		750 x 250		750 x 250		750 x 250
WEIGHT (kg)		21		26		28		28
DIMENSIONS (mm)	Width	813		1035		1130		1130
	Depth	492		492		461		461
	Height	330		394		404		404
ELECTRICAL SUPPLY		220-240v, 50Hz						
PHASE		Single						
MAX RUNNING CURRENT (A)		<0.1						
FUSE RATING (BS88) - HRC (A)		6						

Notes:
*1 The cooling / heating capacity does not take into account heat recovery of the Lossnay MVHR unit.
*2 Achievable airflow rate should be calculated using curves of Lossnay fan, GUX pressure drop, and ductwork system.

Product Dimensions GUX-MS32-E

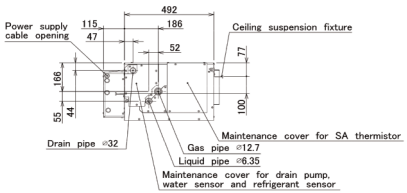
Left Side View



Upper View

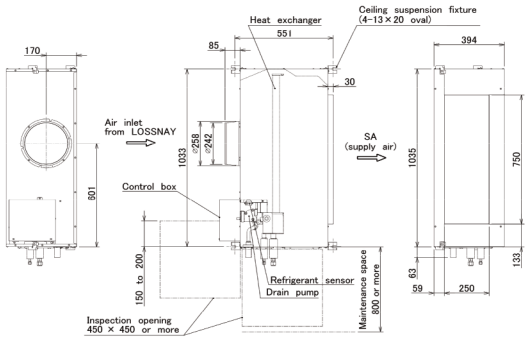
Right Side View

Front View



Product Dimensions GUX-MS50-E

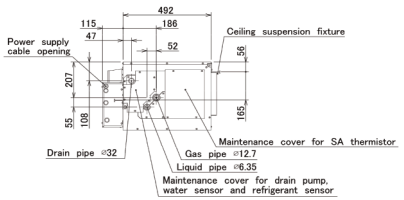
Left Side View



Upper View

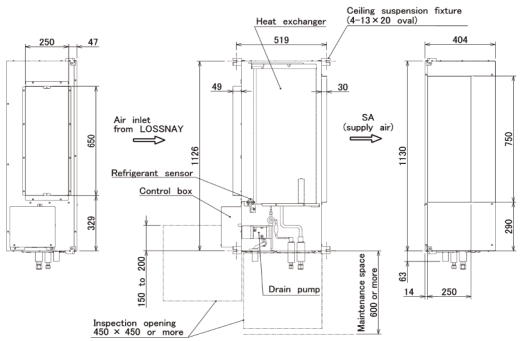
Right Side View

Front View



Product Dimensions GUX-MS80-E

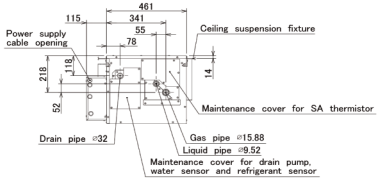
Left Side View



Upper View

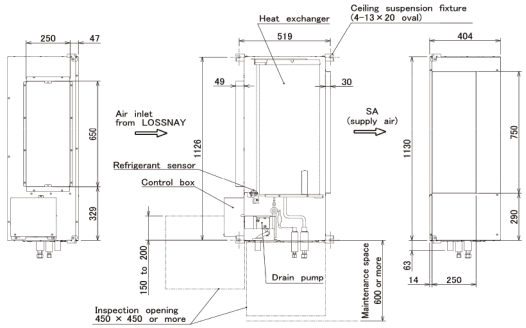
Right Side View

Front View



Product Dimensions GUX-MS100-E

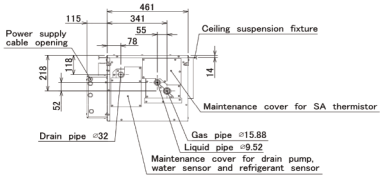
Left Side View



Upper View

Right Side View

Front View

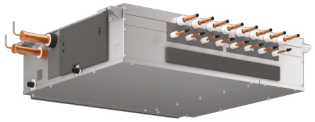


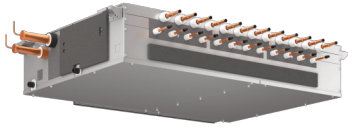
R32
BC Controllers

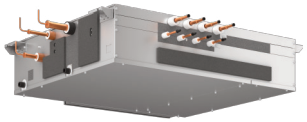
CITY MULTI YXM

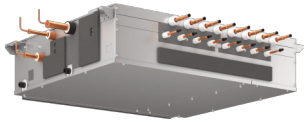




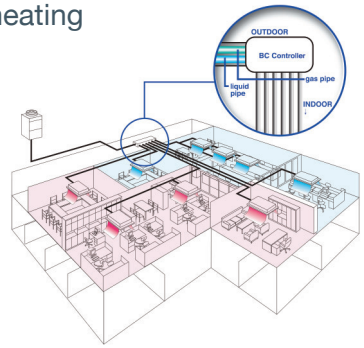








At the heart of the **City Multi R2 Series**, the **BC controller** makes simultaneous heating and cooling possible. Improved system efficiency is achieved when energy is transferred intelligently around the building.



Key Features & Benefits

- New Heat Recovery Branch Controller - supporting up to 12 ports with built-in shut-off valves for flexible installation and safety compliance
- 2-Pipe Heat Recovery - enables simultaneous heating and cooling with a simplified installation process, whilst meeting diverse comfort needs across different zones at the same time
- Smart Refrigerant Control - directs refrigerant flow to meet each zone's heating and cooling demand, ensuring consistent comfort
- Compact Design - 252mm height, perfect for tight ceiling spaces
- Optional Low Level Leak Detector (PAC-SL72SA-E) - provides long service life, easy maintenance and supports compliance and safety regulations
- Easy Maintenance Access - underside drain pan provides convenient access for servicing, reducing maintenance time and costs
- Brazed Connections - reliable, durable connections for long-lasting system integrity and minimal leak risk

R32

MAIN BC CONTROLLERS		CMB-M104V-MA-SV	CMB-M106V-MA-SV	CMB-M108V-MA-SV	CMB-M1012V-MA-SV
NUMBER OF CONNECTIONS		4	6	8	12
WEIGHT (kg)		53	57	63	77
DIMENSIONS (mm)	Width	1040	1040	1040	1285
	Depth	880	880	880	880
	Height	252	252	252	252
ELECTRICAL SUPPLY		220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
PHASE		Single	Single	Single	Single
POWER INPUT (kW)		0.02	0.02	0.02	0.02
RUNNING CURRENT (A)		0.09	0.09	0.10	0.10
FUSE RATING (BS88) – HRC (A)		6	6	6	6
MAINS CABLE No. Cores		3	3	3	3

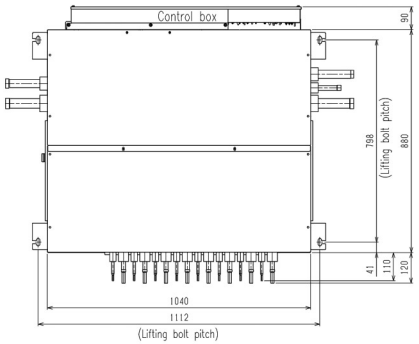
Notes: CMB-M-V-MA-SV units are for use with PURY-EM200-1000Y(S)XM-A and PURY-M200-1000Y(S)XM-A units only.

SUB BC CONTROLLERS		CMB-M104V-MB-SV	CMB-M108V-MB-SV
NUMBER OF CONNECTIONS		4	8
WEIGHT (KG)		43	54
DIMENSIONS (MM)	Width	1040	1040
	Depth	880	880
	Height	252	252
ELECTRICAL SUPPLY		220-240v, 50Hz	220-240v, 50Hz
PHASE		Single	Single
POWER INPUT (kW)		0.01	0.01
RUNNING CURRENT (A)		0.05	0.06
FUSE RATING (BS88) – HRC (A)		6	6
MAINS CABLE NO. CORES		3	3

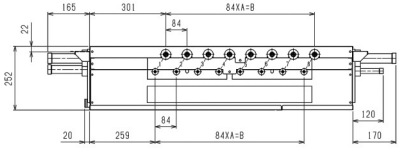
Notes: Maximum index of 350 allowable on each Sub BC controller. Up to 11 Sub BC controllers connectable to one system.

Product Dimensions CMB-M104/106/108V-MA-SV

Upper View



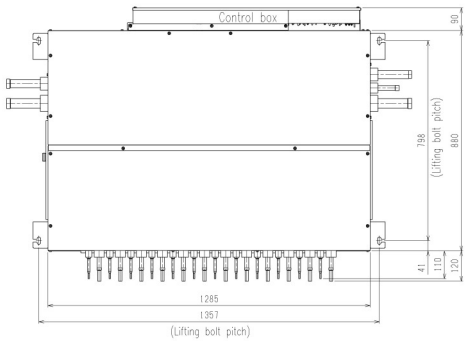
Side View



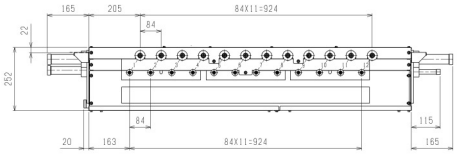
	A	B
CMB-M104V-MA-SV	3	252
CMB-M106V-MA-SV	5	420
CMB-M108V-MA-SV	7	588

Product Dimensions CMB-M112V-MA-SV

Upper View

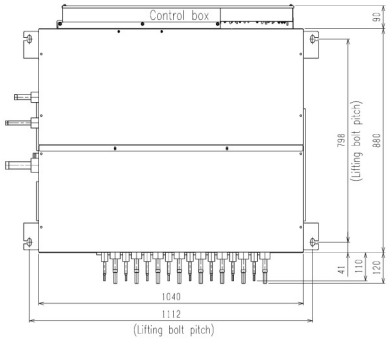


Side View

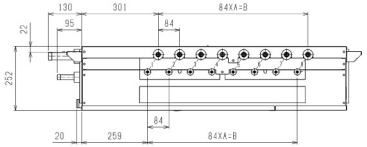


Product Dimensions CMB-M104/108V-MB-SV

Upper View



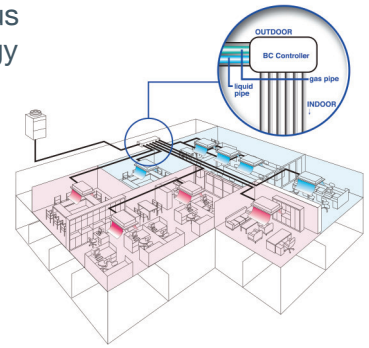
Side View



	A	B
CMB-M104V-MB-SV	3	252
CMB-M108V-MB-SV	7	588

R410A
BC Controllers

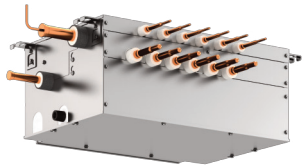
At the heart of both the R2 and WR2 Series, the BC controller makes simultaneous heating and cooling possible. Improved system efficiency is achieved when energy is transferred intelligently around the building.

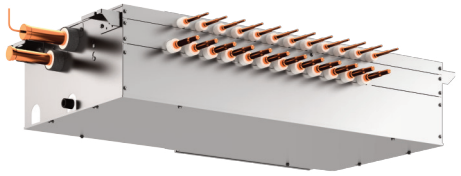


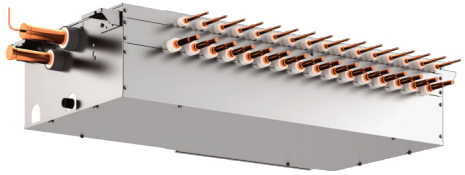
Key Features & Benefits

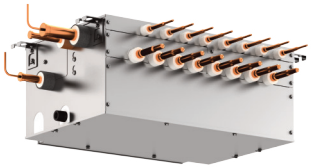
- Allows unique 2-pipe heat recovery application
- Simultaneous heating and cooling
- Instructs the heat source unit/outdoor unit on the amount of refrigerant (liquid or gas) that is required to achieve the requested cooling or heating requirements
- Slim profile for more flexible installation
- Easy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

R410A









BC CONTROLLERS		CMB-M104V-J1	CMB-M106V-J1
NUMBER OF CONNECTIONS		4	6
WEIGHT (KG)		26	29
DIMENSIONS (MM)	Width	596	596
	Depth	476	476
	Height	250	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

Notes: 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	1135	1135	1135
	Depth	622	622	622	622
	Height	252	252	252	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

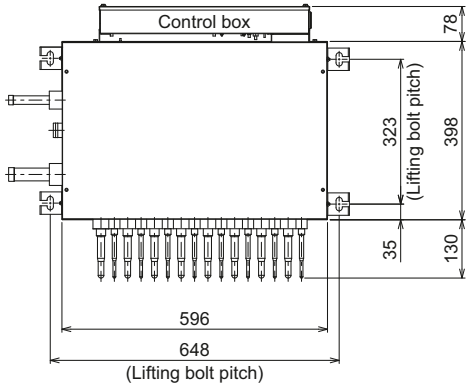
Notes: CMB-M-V-JA1 units are for use with PURY-EP200-900Y(S)NW-A2, PURY-P200-900Y(S)NW-A2 & PQRY-P200-900Y(S)LM-A1 units only. CMB-P1016V-KA1 unit is for use with PURY-P950-1100YSNW-A2 and PURY-EP950-1100YSNW-A2 units only.

SUB BC CONTROLLERS		CMB-M104V-KB1	CMB-M108V-KB1
NUMBER OF CONNECTIONS		4	8
WEIGHT (KG)		23	31
DIMENSIONS (MM)	Width	596	596
	Depth	476	476
	Height	250	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

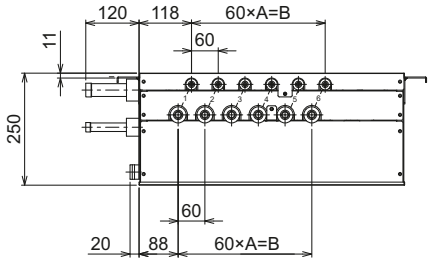
Notes: Maximum index of 350 allowable on each Sub BC controller. Up to 11 Sub BC controllers connectable to one system.

Product Dimensions CMB-M104/106V-J1

Upper View



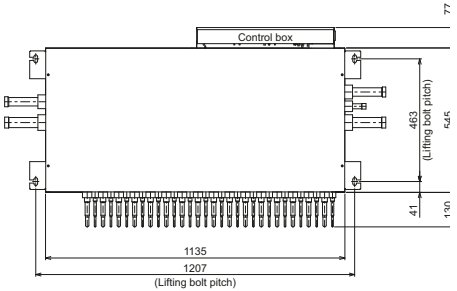
Side View



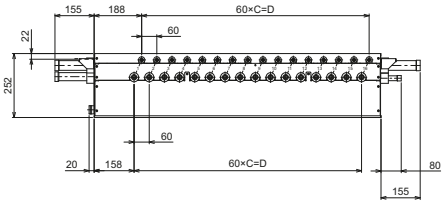
	A	B
CMB-M104V-J1	3	180
CMB-M106V-J1	5	300

Product Dimensions CMB-M108/1012/1016V-JA1

Upper View



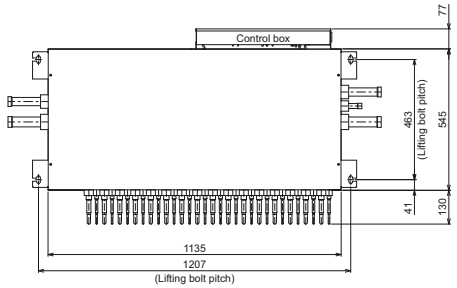
Side View



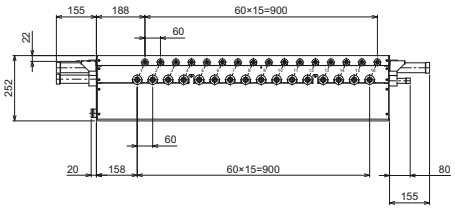
	A	B	C	D
CMB-M108V-JA1	911	983	7	420
CMB-M1012V-JA1	1135	1207	11	660
CMB-M1016V-JA1	1135	1207	15	900

Product Dimensions CMB-P1016V-KA1

Upper View

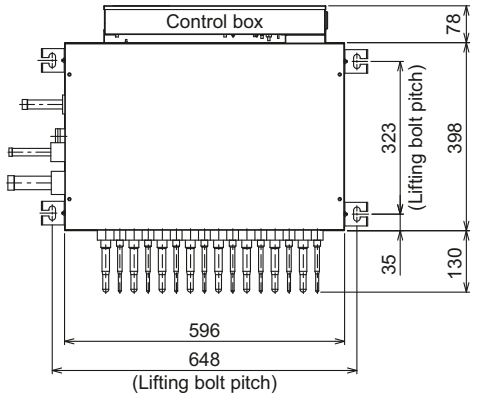


Side View

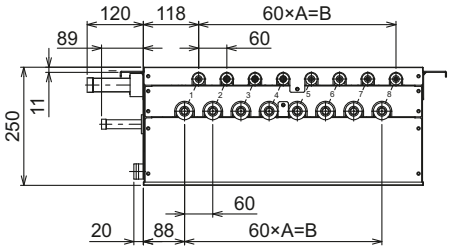


Product Dimensions CMB-M104/108V-KB1

Upper View



Side View



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

R410A 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

R410A



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	596
	Depth	476	476
	Height	256	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.

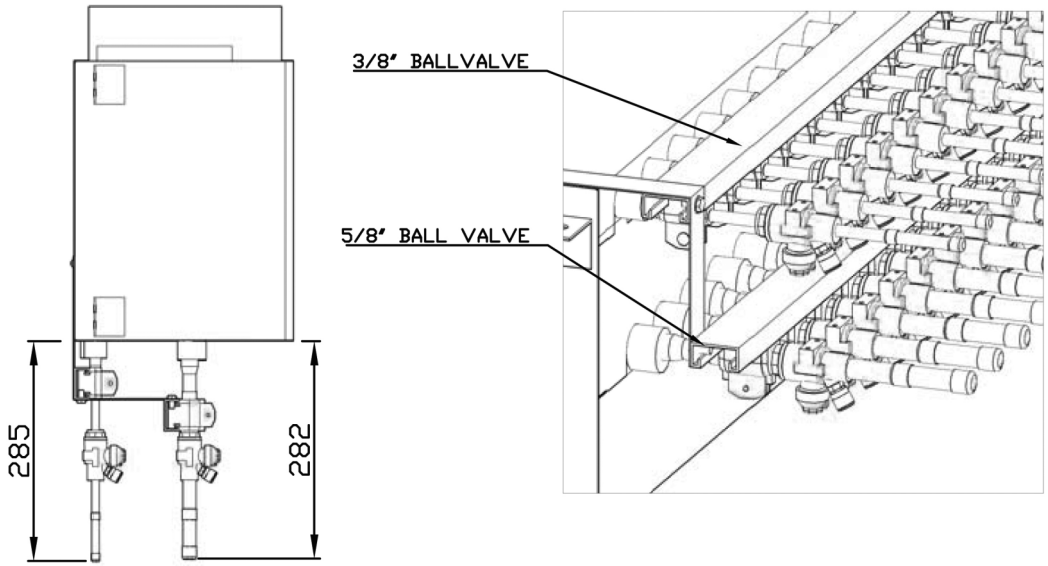
MAIN BC CONTROLLERS with Port Isolation Valves		KS8-CMB-M108V-JA1	KS8-CMB-M1012V-JA1	KS8-CMB-M1016V-JA1	KS8-CMB-P1016V-KA1
NUMBER OF CONNECTIONS		8	12	16	16
WEIGHT (KG)		54.9	70.1	81	82
DIMENSIONS (MM)	Width	911	1135	1135	1135
	Depth	622	622	622	622
	Height	256	256	256	256
ELECTRICAL SUPPLY		220-240v, 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	596
	Depth	476	476
	Height	256	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



R410A 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

R410A

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	670	670
	Depth	760	760
	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
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	970	1195	1195	1195
	Depth	900	900	900	900
	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
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	670	670
	Depth	760	760
	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
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.

R410A 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

R410A

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

The refrigerant detection systems are designed to detect air conditioning leaks. We also provide pump down systems specifically for our **City Multi YNW VRF R2 Series** units.

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

Key Features & Benefits

- Refrigerant Detection Systems enable 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



KSGD-01S-B



KSGD-01W-B White



KS8-IR16CIF-A



KS8-SSFPA



KSIR-SP01 MK3

Semiconductor Refrigerant Leak Detection

	DESCRIPTION	MODEL REF.
Semiconductor Sensor	Semiconductor Stand Alone Refrigerant Detector White	KSGD-01W-B
	Semiconductor Stand Alone Refrigerant Detector Silver	KSGD-01S-B
	Transformer 12Vdc Power Supply	KSTR12-J1
	Transformer 24Vdc Power Supply	KSTR24-J1
Semiconductor Sensor Panel	32 Channel System	KS8 RAD32-C
	64 Channel System	KS8 RAD64-B
Room Alarm Indicator	Room Alarm Indicator Satin Stainless Steel	KSRA-SS
	Room Alarm Indicator White Steel	KSRA-WS
	Room Alarm Indicator Polished Brass	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 MK3
Infrared Faceplate	Stainless Steel Room Faceplate with Alarm for Aspirated Panel	KS8-SSFPA
Infrared Tubing Ancillaries	250M Drum Sampling Tube for Aspirated Panel (Black)	KS8-BST250
	Sampling Tube Two Way Manifold for Aspirated Panel	KS8-ST2M
	Inline Filter for Aspirated Panel	KS8-IF
	End Of Line Filter for Aspirated Panel (Calibration) C/W Bracket	KS8-EF C/W BRACKET
Infrared Aspirated Panel	Infrared Aspirated 8 Channel Refrigerant Detector Panel	KS8-IR8CIF-A
	Infrared Aspirated 16 Channel Refrigerant Detector Panel	KS8-IR16CIF-A
	Infrared Aspirated 32 Channel Refrigerant Detector Panel	KS8-IR32CIF-A
	8/16/32 Remote Display Unit	KS8-RDU

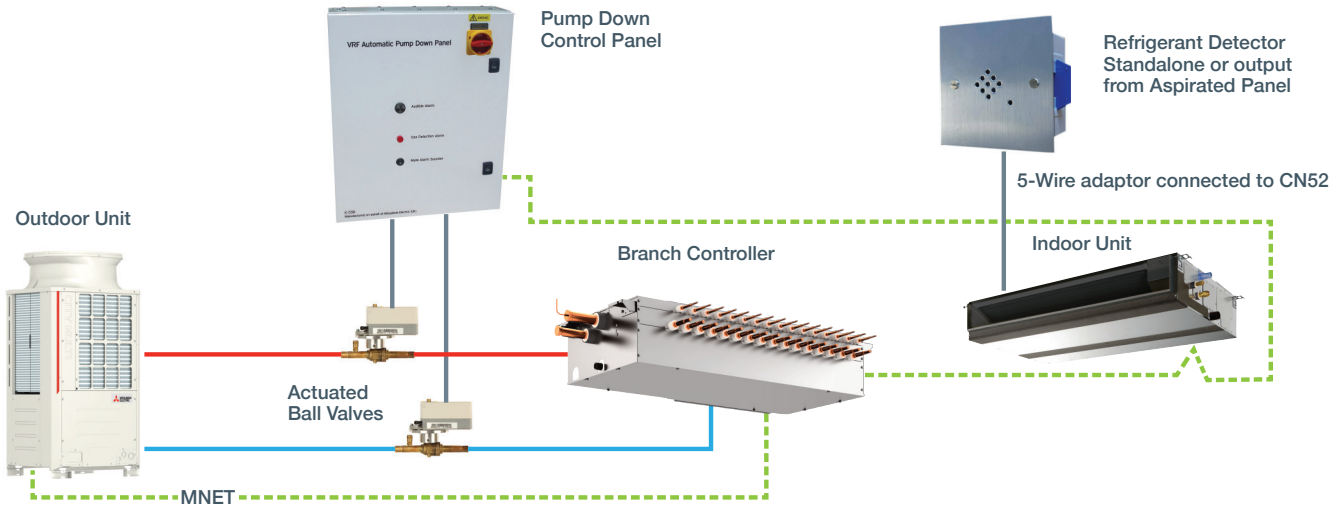


KS8-OC1

Pump Down Systems For City Multi YNW Units

	DESCRIPTION	MODEL REF.
City Multi Pump Down Control Panels	City Multi R2 Automatic Pump Down Control Panel 1 Outdoor Unit	KS8-OC1
	City Multi R2 Automatic Pump Down Control Panel 2 Outdoor Units	KS8-OC2
	City Multi R2 Automatic Pump Down Control Panel 3 Outdoor Units	KS8-OC3
	City Multi R2 Automatic Pump Down Control Panel 4 Outdoor Units	KS8-OC4
	City Multi R2 Automatic Pump Down Control Panel 5 Outdoor Units	KS8-OC5
	City Multi R2 Automatic Pump Down Control Panel 6 Outdoor Units	KS8-OC6
	City Multi R2 Automatic Pump Down Control Panel 7 Outdoor Units	KS8-OC7
	City Multi R2 Automatic Pump Down Control Panel 8 Outdoor Units	KS8-OC8
Actuated Ball Valves for Pump Down Operation	5/8" Actuated Ball Valve	KS8-5/8 ABV
	3/4" Actuated Ball Valve	KS8-3/4 ABV
	7/8" Actuated Ball Valve	KS8-7/8 ABV
	1 1/8" Actuated Ball Valve	KS8-1.1/8 ABV
	1 3/8" Actuated Ball Valve	KS8-1.3/8 ABV
	1 5/8" Actuated Ball Valve	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	
Twinning kit for PURY-EM/M400-650YSXM-A / PURY-EP/P400-650YSNW-A2	CMY-R100VBK4
Twinning kit for PURY-EM/M700-1000YSXM-A / PURY-EP/P700-1100YSNW-A2	CMY-R200VBK4
Twinning kit for PUHY-M400-650YSXM-A / PUHY-P400-650YSNW-A2 / PQHY-P400-600YSLM-A1	CMY-Y100VBK3
Twinning kit for PUHY-M700-1000YSXM-A / PUHY-P700-900YSNW-A2 / PQHY-P650-900YSLM-A1	CMY-Y200VBK2
Twinning kit for PUHY-P950-1350YSNW-A2	CMY-Y300VBK3
Twinning kit for PQRY-P400-600YSLM-A1	CMY-Q100CBK2
Twinning kit for PQRY-P700-900YSLM-A1	CMY-Q200CBK
Fin guard side surfaces YXM S / L modules (2pc) for PURY-EM200-500YXM-A	PAC-FG03S-E
Fin guard rear surface YXM S module for PURY-EM200-300YXM-A	PAC-FG04B-E
Fin guard rear surface YXM L module (2pc) for PURY-EM350-500YXM-A	PAC-FG05B-E
Fin guard side surfaces YXM S / L modules (2pc) for PURY/PUHY-M200-500YXM-A	PAC-FG04S-E
Fin guard rear surface YXM S module for PURY/PUHY-M200-300YXM-A	PAC-FG06B-E
Fin guard rear surface YXM L module (2pc) for PURY/PUHY-M350-500YXM-A	PAC-FG07B-E
Fin guard side surfaces YNW S / L modules (2pc) (P200-P450)	PAC-FG01S-E
Fin guard side surfaces YNW XL module (2 pc) (P500/P550)	PAC-FG02S-E
Fin guard rear surface YNW S module (P200-P300)	PAC-FG01B-E
Fin guard rear surface YNW L module (P350-P450)	PAC-FG02B-E
Fin guard rear surface YNW 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 or first branch of M/P200-M/P400	CMY-Y102LS-G2
Branch pipe (joint) for size 401-650 - total capacity of indoor units or first branch of M/P450-M/P650	CMY-Y202S-G2
Branch pipe (joint) for size 651 or above - total capacity of indoor units or first branch of M700-M1000 / P700-P1350	CMY-Y302S-G2
Branch pipe for 2 branches (PUMY)	CMY-Y62-G-E
Air outlet guide for PUMY-(S)M112-200 / PUMY-(S)P112-200	PAC-SH96SG-E
Air protect guide for PUMY-(S)M112-200 / PUMY-(S)P112-200	PAC-SH95AG-E
Drain socket set for PUMY-(S)M112-200 / 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-EP201S
Ceiling Concealed Ducted Indoor Units	
Long life filter for PEFY-MS80VMHS-A	PAC-KE88LAF
Long life filter for PEFY-MS100-140VMHS-A	PAC-KE89LAF
Long life filter for PEFY-MS200/250VMHS-A	PAC-KE85LAF
Filter box for PEFY-MS80VMHS-A (necessary when long life filter is used)	PAC-KE99TB
Filter box for PEFY-MS100-140VMHS-A (necessary when long life filter is used)	PAC-KE140TB-F
Filter box for PEFY-MS200/250VMHS-A (necessary when long life filter is used)	PAC-KE250TB-F
Plasma Quad Connect air purifying device for PEFY-MS-VMS-A / PEFY-MS-VMA-A1	MAC-100FT-E
Plasma Quad Connect metal fitment for PEFY-MS-VMS-A	PAC-HA11PAR
Plasma Quad Connect metal fitment for PEFY-MS-VMA-A1	PAC-HA31PAR

City Multi VRF Accessories / Optional Extras

DESCRIPTION	MODEL REF.
4-Way Blow Cassette Indoor Units	
Grille for PLFY-MS-VFM2-E	SLP-2FA
Black grille (Satin finish) for PLFY-MS-VFM2-E	SLP-2FA-B
3D i-see sensor grille for PLFY-MS-VFM2-E	SLP-2FAE
Grille for PLFY-MS-VEM2-E	PLP-6EA
Black grille (Matt finish) for PLFY-MS-VEM2-E	PLP-6EAB
3D i-see sensor grille for PLFY-MS-VEM2-E	PLP-6EAE
Self elevating grille for PLFY-MS-VEM2-E	PLP-6EAJ
Corner panel with i-see sensor for PLFY-MS-VEM2-E	PAC-SE1ME-E
Corner panel with signal receiver for PLFY-MS-VEM2-E	PAR-SE9FA-E
Shutter plate for PLFY-MS-VEM2-E	PAC-SJ37SP-E
Multi-function casement for PLFY-MS-VEM2-E	PAC-SJ41TM-E
High efficiency filter for PLFY-MS-VEM2-E (must be used with PAC-SJ41TM-E)	PAC-SH59KF-E
V Blocking air purifying filter for PLFY-MS-VEM2-E	PAC-SK53KF-E
V Blocking air purifying filter for PLFY-MS-VFM2-E	PAC-SK54KF-E
Plasma Quad Connect air purifying device (x1) with multi-function casement for PLFY-MS-VEM2-E	PAC-SK51FT-E
Floor Standing Indoor Units	
Back panel for PFFY-P20-32VEM-E	PAC-BP32VEM-E
Back panel for PFFY-P40/50VEM-E	PAC-BP50VEM-E
Back panel for PFFY-P63VEM-E	PAC-BP63VEM-E
Wall Mounted Indoor Units	
Plasma Quad Connect air purifying device for PKFY-MS-VLM2-E / PKFY-MS-VKM2-E	MAC-100FT-E
VRF Sanitary Water Heater	
Controller	PAR-W21MAA-J
Indoor Units	
Remote temperature sensor	PAC-SE42TS-E
Discreet remote temperature sensor	KS9-BS1-A
LEV kit interface	PAC-LV11M
Refrigerant Leak Detection	
Sensor & Alarm kit for PURY/PUHY-(E)M / PUMY-(S)M	PAC-SL72SA-E
Power Interface for PURY/PUHY-(E)M / PUMY-(S)M	PAC-SL73IFL-E
Shut-off Valve kit for PUHY-M	CMR-M100KT-E
BC Controllers	
Joint pipe for use with R32 YXM BC Controllers	CMY-R170M-E
Joint pipe for use with R410A YNW BC Controllers	CMY-R160-J1

City Multi Hybrid VRF

The Modern Alternative





Contents

R32 Heat Recovery Outdoor Units

R2 Series High Efficiency (22.4-56kW) 1.6.6
R2 Series Standard (22.4-56kW) 1.6.8

R410A Water Cooled Condensing Units

WR2 Series Heat Recovery (22.4-56kW) 1.6.10

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-WL-VCM-A Floor Standing Concealed 1.6.20
PFFY-WL-VEM-A Floor Standing Exposed 1.6.22
PKFY-WL-VLM-E / VKM-E Wall Mounted 1.6.24
PCFY-WL-VKM-E Ceiling Suspended 1.6.26

HBC Controllers 1.6.28

Accessories / Optional Extras 1.6.30

CITY MULTI | Energy Efficient HVRF Systems

R32 | HybridVRF

Hybrid VRF (HVRF) - The Modern Alternative

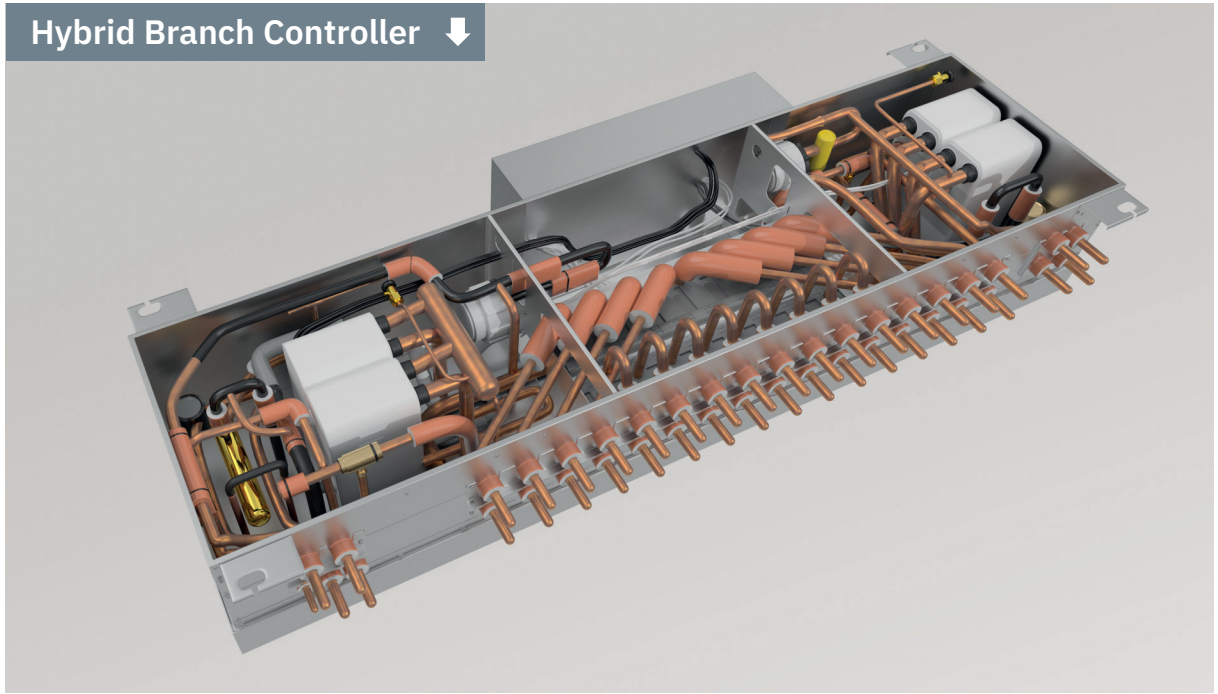
The award-winning City Multi Hybrid VRF is a totally unique 2-pipe heat recovery VRF system, whereby the outdoor unit is connected to a Hybrid Branch Controller (HBC) and water pipework is used between the HBC and indoor units.

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 ⬇





Outdoor / Condensing Unit Range

Air Cooled / Water Cooled

Heat Recovery - R2 Series	P	200	250	300	350	400	450	500
	(kW)	22	28	34	40	45	50	56
High Efficiency PURY-EM (YNW) R32		S	S	S	L	L	L	XL
Standard Efficiency PURY-M (YNW) R32		S	S	S	L	L	L	XL

Heat Recovery - WR2 Series	P	200	250	300	350	400	450	500
	(kW)	22	28	34	40	45	50	56
PQRY-P (YLM) R410A		●	●	●	●	●	●	●

S Small chassis L Large chassis XL Extra Large chassis

Indoor Unit Range

Model	Range	P	10	15	20	25	32	40	50	63	80
		(kW)	1.2	1.7	2.2	2.8	3.6	4.5	5.6	7.1	9.0
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-WL-VCM-A (Concealed) 				●	●	●	●	●		
	PFFY-WL-VEM-A (Exposed) 				●	●	●	●	●		
Wall Mounted	PKFY-WL-VLM-E / VKM-E 		●	●	●	●	●	●	●	●	
Ceiling Suspended	PCFY-WL-VKM-E 							●		●	●

R2 Series HVRF High Efficiency (22.4-56kW)

Simultaneous Heating and Cooling with Heat Recovery Outdoor Unit







R32 | HybridVRF

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

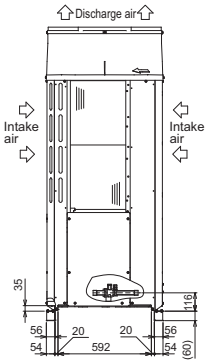
R32

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 (m^3/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
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]		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
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) 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

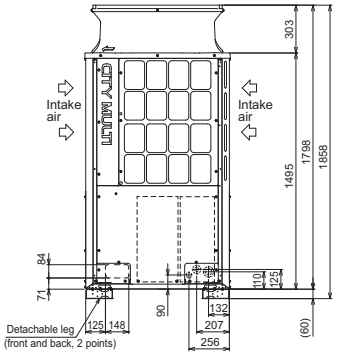
Notes: *SEER/SCOP available separately in the 'City Multi HVRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.
Nominal Conditions: Cooling; indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB. Nominal Max Conditions: Heating; indoor 20°C DB; outdoor 7°C DB, 6°C WB.
UK Conditions: 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-EM200/250/300YNW-A1

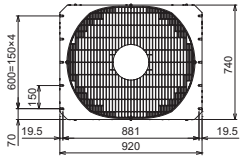
Side View



Front View

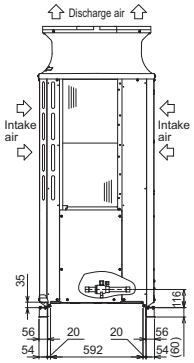


Upper View

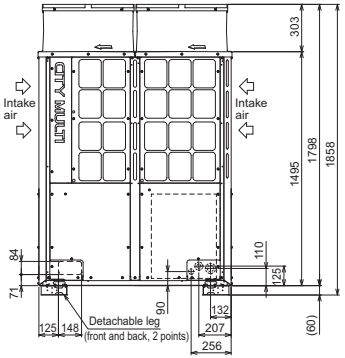


Product Dimensions PURY-EM350/400/450YNW-A1

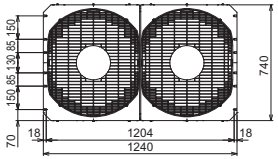
Side View



Front View

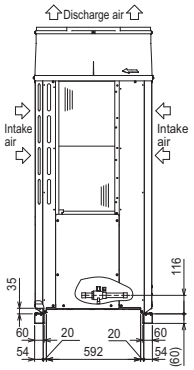


Upper View

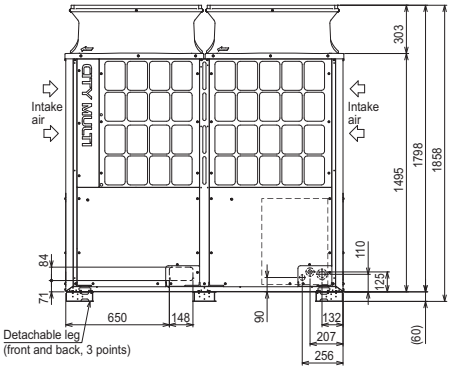


Product Dimensions PURY-EM500YNW-A1

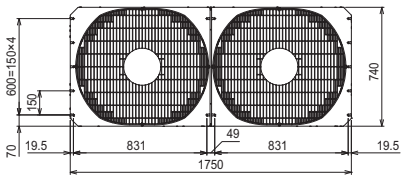
Side View



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

R32

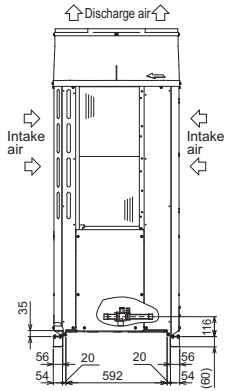
OUTDOOR UNITS		PURY-M200YNW-A1	PURY-M250YNW-A1	PURY-M300YNW-A1	PURY-M300YNW-A1 X 2HBC	PURY-M350YNW-A1	PURY-M350YNW-A1 X 2HBC	PURY-M400YNW-A1	PURY-M450YNW-A1	PURY-M500YNW-A1
CAPACITY (kW)	Heating (nominal max)	25.0	31.5	37.5	37.5	45.0	45.0	45.0	56.0	63.0
	Cooling (nominal)	22.4	28.0	33.5	33.5	40.0	40.0	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 (m^3/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

R32 | HybridVRF

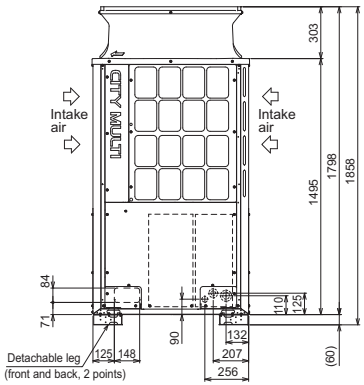
Notes: *SEER/SCOP available separately in the 'City Multi HVRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.
Nominal Conditions: Cooling; indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB. Nominal Max Conditions: Heating; indoor 20°C DB; outdoor 7°C DB, 6°C WB.
UK Conditions: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

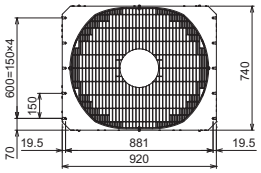
Side View



Front View

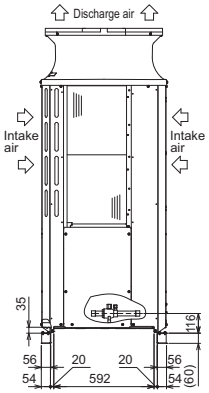


Upper View

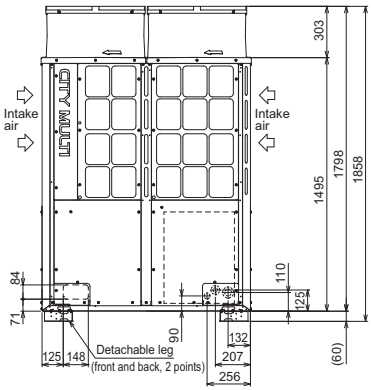


Product Dimensions PURY-M350/400/450YNW-A1

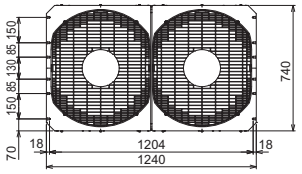
Side View



Front View

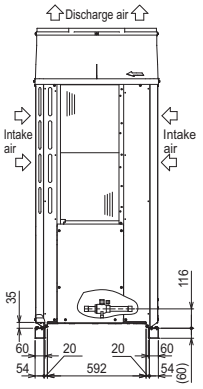


Upper View

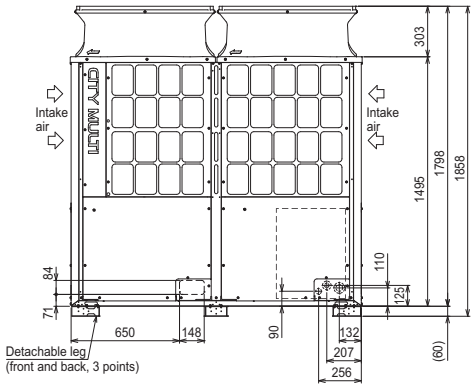


Product Dimensions PURY-M500YNW-A1

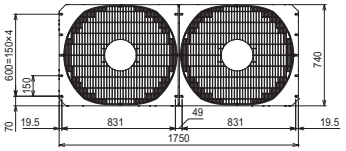
Side View



Front 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

R410A



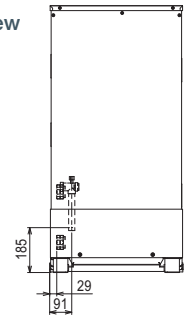


CONDENSING UNITS		PQRY-P 200YLM-A1	PQRY-P250YLM-A1	PQRY-P300YLM-A1	PQRY-P300YLM-A1 (2 X MAIN)	PQRY-P350YLM-A1	PQRY-P350YLM-A1 (2 X MAIN)	PQRY-P400YLM-A1	PQRY-P450YLM-A1	PQRY-P500YLM-A1
CAPACITY (kW)	Heating (nominal max)	25.0	31.5	37.5	37.5	45.0	45.0	50.0	56.0	63.0
	Cooling (nominal)	22.4	28.0	33.5	33.5	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 (m^3/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
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
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%
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")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")
SOUND PRESSURE LEVEL (dBA)		46	48	54	54	52	52	52	54	54
SOUND POWER LEVEL (dBA)		60	62	68	68	66	66	66	70	70.5
WEIGHT (kg)		173	173	173	173	217	217	217	217	217
DIMENSIONS (mm)	Width	880	880	880	880	880	880	880	880	880
	Depth	550	550	550	550	550	550	550	550	550
	Height	1100	1100	1100	1100	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
PHASE*1		Three	Three	Three	Three	Three	Three	Three	Three	Three
STARTING CURRENT (A)		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
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

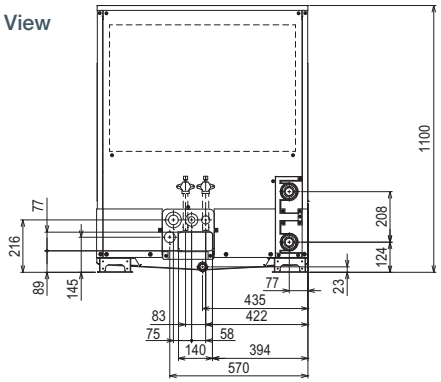
Notes: *SEER/SCOP available separately in the 'City Multi HVRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.
PQRY-P-YLM-A1 units are not compatible with CMB-WM350/500F-AA vertical HBC controllers.
*1 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

Product Dimensions PQRY-P200/250/300YLM-A1

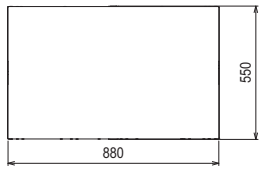
Side View



Front View

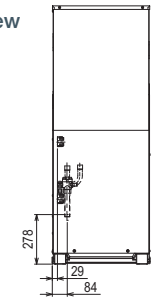


Upper View

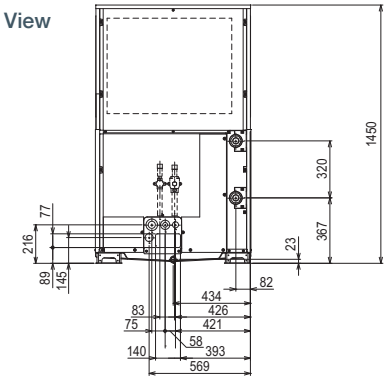


Product Dimensions PQRY-P350/400/450/500YLM-A1

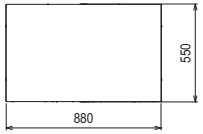
Side View



Front View



Upper View



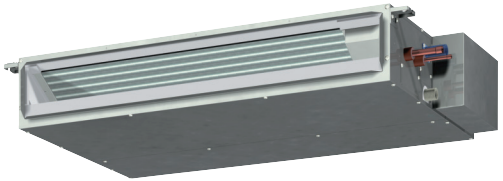
PEFY-WP-VMS1-E

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

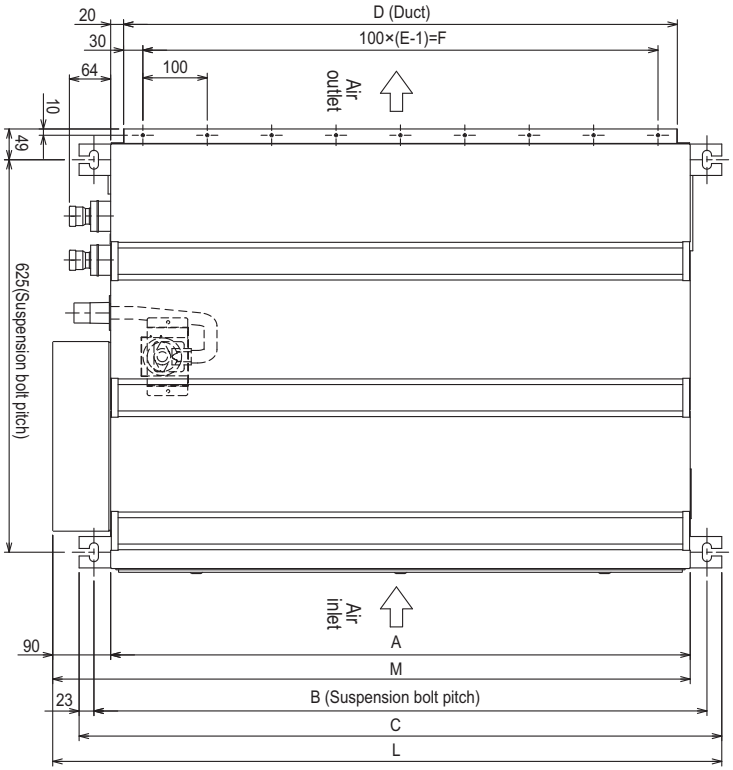
- Ultra thin body allowing installation in smaller spaces - height of only 200mm & width of only 790mm (size WP10-25)
- Extremely quiet operation for minimal disturbance - as low as 22dBA (size WP10-20)
- External static pressure of 5-50Pa, allowing flexibility of design and application
- Available in 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



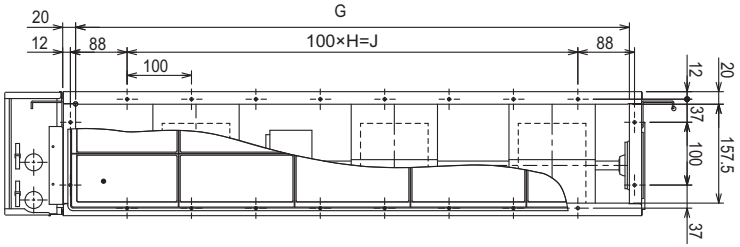
INDOOR UNITS		PEFY-WP10VMS1-E	PEFY-WP15VMS1-E	PEFY-WP20VMS1-E	PEFY-WP25VMS1-E	PEFY-WP32VMS1-E	PEFY-WP40VMS1-E	PEFY-WP50VMS1-E
CAPACITY (kW)	Heating (nominal)	1.4	1.9	2.5	3.2	4.0	5.0	6.3
	Cooling (nominal)	1.2	1.7	2.2	2.8	3.6	4.5	5.6
	UK Heating	1.4	1.9	2.5	3.2	4.0	5.0	6.3
	UK Total Cooling - Hi (Sensible)	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 - Mi	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
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
PHASE		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

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.

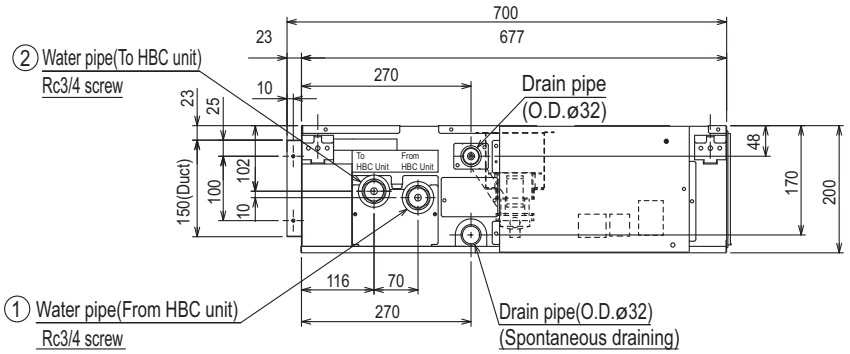
Upper View



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	Rc3/4 screw	
PEFY-WP15VMS1-E														
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		

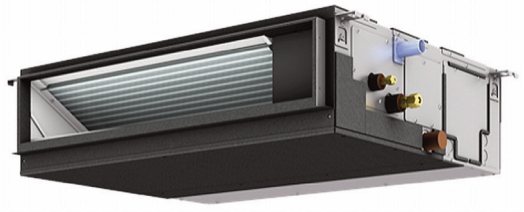
PEFY-WP-VMA-E

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

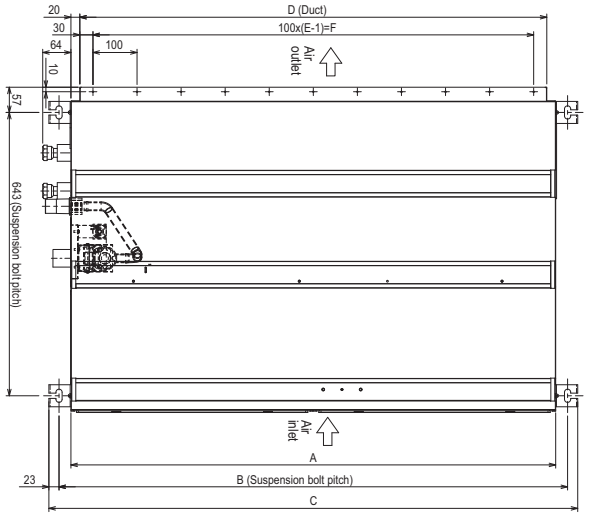


INDOOR UNITS		PEFY-WP20VMA-E	PEFY-WP25VMA-E	PEFY-WP32VMA-E	PEFY-WP40VMA-E	PEFY-WP50VMA-E	PEFY-WP63VMA-E	PEFY-WP80VMA-E
CAPACITY (kW)	Heating (nominal)	2.5	3.2	4.0	5.0	6.3	8.0	10.0
	Cooling (nominal)	2.2	2.8	3.6	4.5	5.6	7.1	9.0
	UK Heating	2.5	3.2	4.0	5.0	6.3	8.0	10.0
	UK Total Cooling - Hi (Sensible)	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 - Mi	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
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	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	0.44 / 0.55	0.53 / 0.64	0.63 / 0.74	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
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	1 1/4" BSP SCREW	1 1/4" BSP SCREW

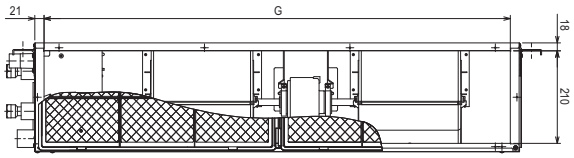
Note: HVRF indoor units can only be configured with the CMB-WM HBC (HVRF) and PURY-(E)M YNW-A1 or PQRY-P YLM-A1 outdoor units.

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

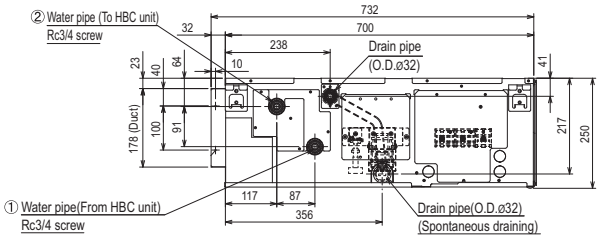
Upper View



Front View



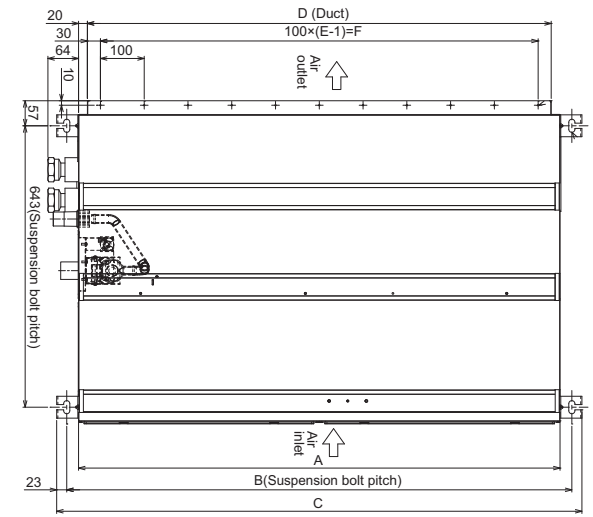
Side View



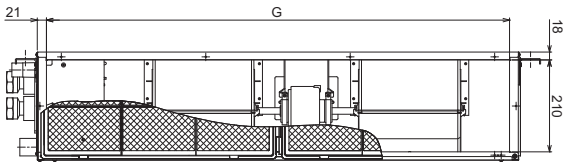
Model	A	B	C	D	E	F	G	①Water pipe (From HBC unit)	②Water pipe (To HBC unit)
PEFY-WP20VMA-E	700	754	800	660	7	600	658	Rc3/4 screw	
PEFY-WP25,32VMA-E	900	954	1000	860	9	800	858		
PEFY-WP40,50VMA-E	1100	1154	1200	1060	11	1000	1058		

Product Dimensions PEFY-WP63/80VMA-E

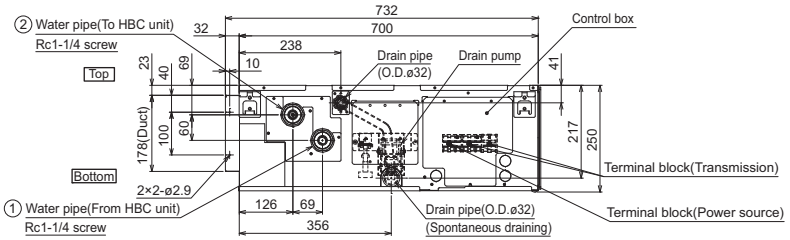
Upper View



Front View



Side View

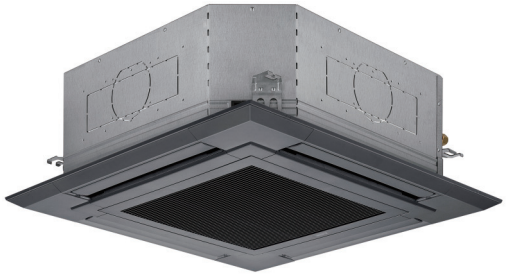


Model	A	B	C	D	E	F	G	①Water pipe (From HBC unit)	②Water pipe (To HBC unit)
PEFY-WP63VMA-E	1100	1154	1200	1060	11	1000	1058	Rc1-1/4 screw	
PEFY-WP80VMA-E	1400	1454	1500	1360	14	1300	1358		

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.

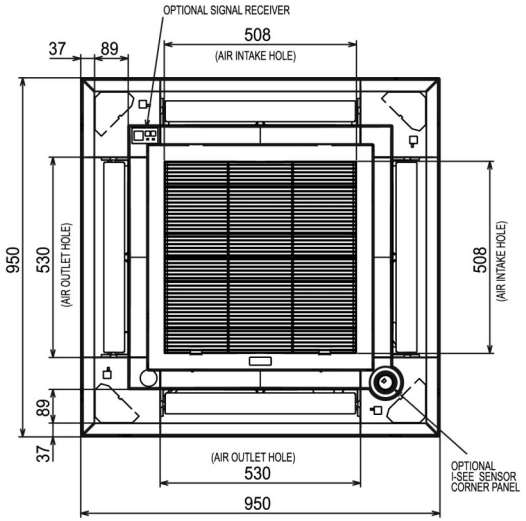
Key Features & Benefits

- 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 (Matt finish) grille (PLP-6EAB), 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

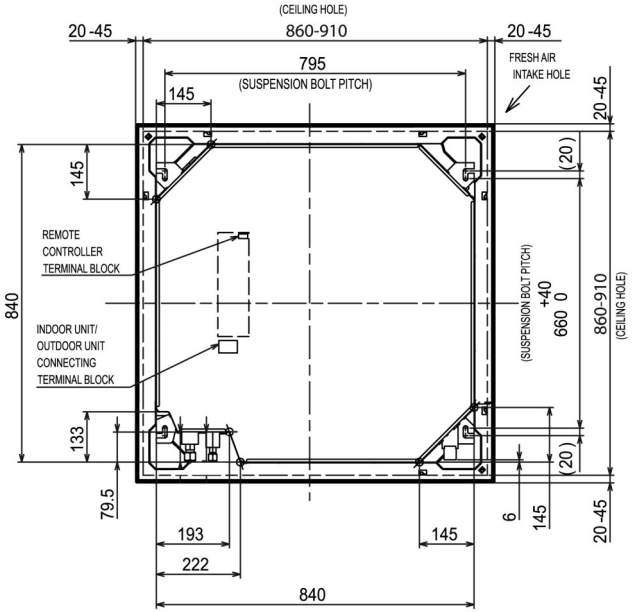
INDOOR UNITS		PLFY-WL32VEM-E	PLFY-WL40VEM-E	PLFY-WL50VEM-E	PLFY-WL63VEM-E	PLFY-WL80VEM-E
CAPACITY (kW)	Heating (nominal)	4.0	5.0	6.3	8.0	10.0
	Cooling (nominal)	3.6	4.5	5.6	7.1	9.0
	UK Heating	4.0	5.0	6.3	8.0	8.0
	UK Total Cooling - Hi (Sensible)	3.20 (3.20)	4.00 (3.60)	5.00 (4.20)	6.40 (5.00)	8.10 (6.10)
	UK Total Cooling - Mi2	3.16	3.95	4.87	6.26	7.94
	UK Total Cooling - Mi1	3.09	3.87	4.66	6.02	7.53
	UK Total Cooling - Lo	3.02	3.77	4.39	5.73	6.95
POWER INPUT (kW)	Heating (nominal)	0.03	0.03	0.04	0.04	0.05
	Cooling (nominal)	0.03	0.03	0.04	0.05	0.05
AIRFLOW (l/s)	Lo-Mi1-Mi2-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-Mi1-Mi2-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)	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)
	Depth (Grille)	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)
	Height (Grille)	258 (40)	258 (40)	258 (40)	298 (40)	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	30mm I.D	30mm 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.

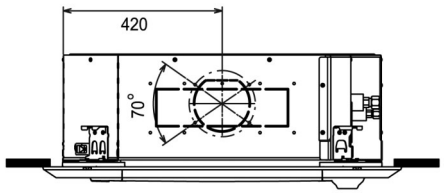
Lower View



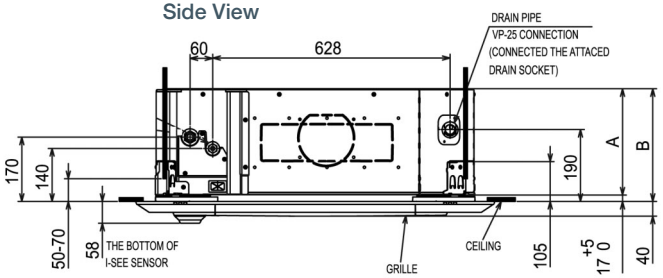
Upper View



Front View



Side View



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

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.

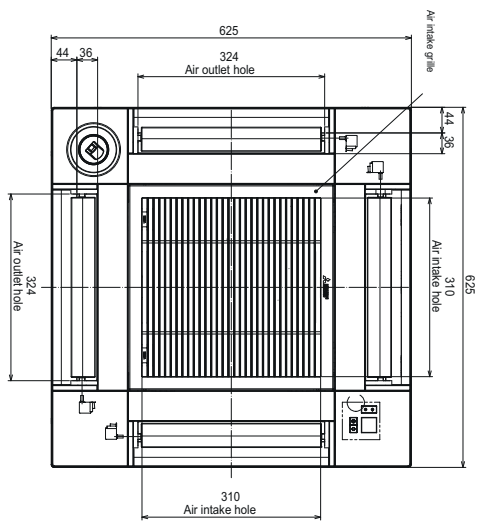
Key Features & Benefits

- 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
- Optional black (Satin finish) grille (SLP-2FA-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

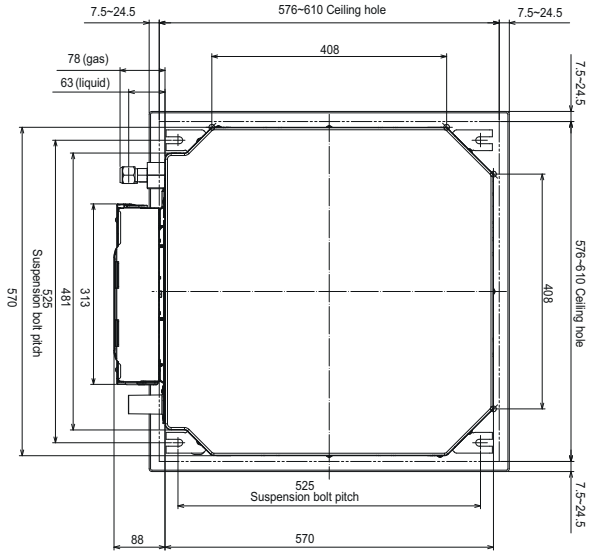
INDOOR UNITS		PLFY-WL15VFM-E	PLFY-WL20VFM-E	PLFY-WL25VFM-E	PLFY-WL32VFM-E	PLFY-WL40VFM-E
CAPACITY (kW)	Heating (nominal)	1.9	2.5	3.2	4.0	5.0
	Cooling (nominal)	1.7	2.2	2.8	3.6	4.5
	UK Heating	1.9	2.5	3.2	4.0	5.0
	UK Total Cooling - Hi (Sensible)	1.50 (1.30)	2.00 (1.60)	2.50 (2.00)	3.20 (2.60)	4.00 (3.10)
	UK Total Cooling - Mi	1.44	1.92	2.38	2.92	3.88
	UK Total Cooling - Lo	1.36	1.89	2.26	2.52	2.98
POWER INPUT (kW)	Heating (nominal)	0.02	0.02	0.03	0.04	0.05
	Cooling (nominal)	0.02	0.02	0.03	0.04	0.05
AIRFLOW (l/s)	Lo-Mi-Hi	100-117-133	108-117-133	108-125-150	108-150-200	108-192-217
SOUND PRESSURE LEVEL (dBA)	Lo-Mi-Hi	25-26-29	27-29-31	27-30-34	27-33-41	27-40-43
WEIGHT (kg)	(Grille)	13 (3)	14 (3)	14 (3)	14 (3)	14 (3)
DIMENSIONS (mm)	Width (Grille)	570 (625)	570 (625)	570 (625)	570 (625)	570 (625)
	Depth (Grille)	570 (625)	570 (625)	570 (625)	570 (625)	570 (625)
	Height (Grille)	245 (10)	245 (10)	245 (10)	245 (10)	245(10)
ELECTRICAL SUPPLY		220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
PHASE		Single	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	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		SLP-2FA	SLP-2FA	SLP-2FA	SLP-2FA	SLP-2FA
WATER PIPE CONNECTION		20mm I.D	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.

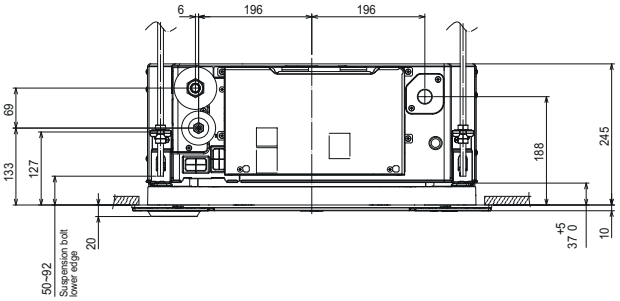
Upper View



Lower View



Side View



PFFY-WL-VCM-A

Floor Standing Concealed Indoor Unit

The **PFFY-WL-VCM-A** floor standing concealed unit connects to the Hybrid Branch Controller and uses water as the heat transfer medium.

This range of easy to install units provide simple, effective air conditioning in perimeter zones, and at only 200mm deep offer an unobtrusive method of delivering a highly efficient air conditioning performance.

Key Features & Benefits

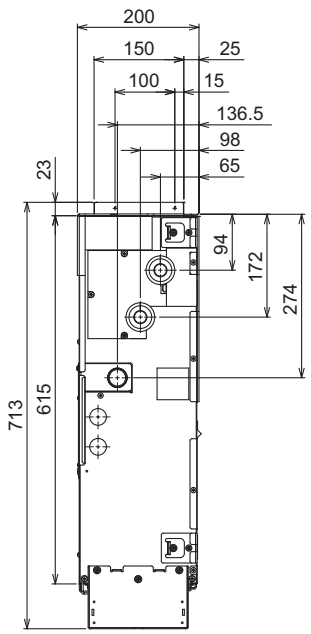
- Small footprint, concealed unit - for hidden installation or low visual impact
- Noise levels as low as 21dBA for minimal disturbance
- Four static pressure settings - 0/10/40/60Pa, ideal for ducting in perimeter zones
- Front or bottom airflow options for better installation flexibility and customised comfort
- No refrigerant in occupied spaces, removing the need for leak detection under BS EN378



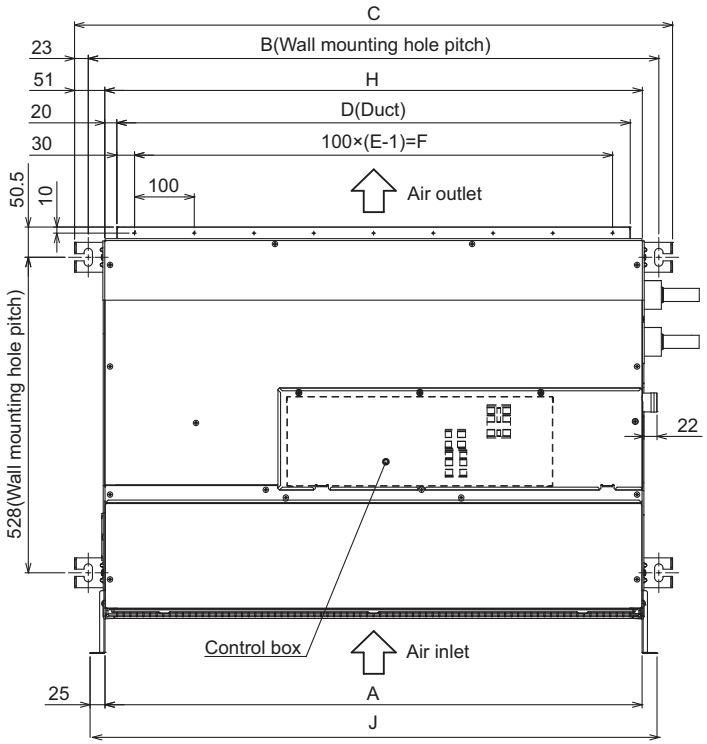
INDOOR UNITS		PFFY-WL20VCM-A	PFFY-WL25VCM-A	PFFY-WL32VCM-A	PFFY-WL40VCM-A	PFFY-WL50VCM-A
CAPACITY (kW)	Heating (nominal)	2.5	3.2	4.0	5.0	6.3
	Cooling (nominal)	2.2	2.8	3.6	4.5	5.6
	UK Heating	2.5	3.2	4.0	5.0	6.3
	UK Total Cooling - Hi (Sensible)	2.00 (1.60)	2.50 (1.90)	3.20 (2.40)	4.00 (3.00)	5.00 (3.80)
	UK Total Cooling - Mi	1.92	2.37	3.05	3.85	4.81
	UK Total Cooling - Lo	1.78	2.14	2.87	3.61	4.50
POWER INPUT (kW)	Heating (nominal)	0.022	0.029	0.035	0.038	0.062
	Cooling (nominal)	0.022	0.029	0.035	0.038	0.062
AIRFLOW (l/s)	Lo-Mi-Hi	83-100-117	92-117-142	108-125-150	133-158-183	175-208-242
EXTERNAL STATIC PRESSURE (Pa)		0-10-40-60	0-10-40-60	0-10-40-60	0-10-40-60	0-10-40-60
SOUND PRESSURE LEVEL (dBA) (20Pa)	Lo-Mi-Hi	21-23-26	22-26-30	25-28-32	25-27-30	28-32-35
WEIGHT (kg)		18	18	18.5	22.5	22.5
DIMENSIONS (mm)	Width	700	700	700	900	900
	Depth	200	200	200	200	200
	Height	615	615	615	615	615
ELECTRICAL SUPPLY		220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
PHASE		Single	Single	Single	Single	Single
RUNNING CURRENT (A)	Heating / Cooling	0.24 / 0.24	0.32 / 0.32	0.36 / 0.36	0.36 / 0.36	0.50 / 0.50
FUSE RATING (BS88) - HRC (A)		6	6	6	6	6
MAINS CABLE No. Cores		3	3	3	3	3
WATER PIPE CONNECTION		20mm I.D	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.

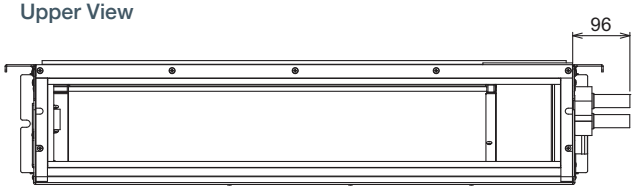
Side View



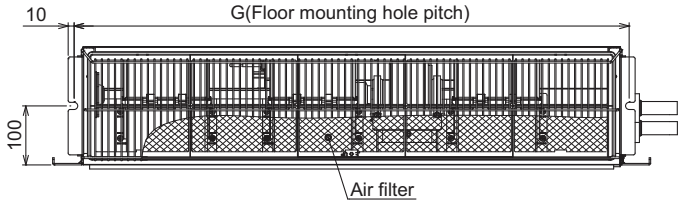
Front View



Upper View



Lower View



Model	A	B	C	D	E	F	G	H	J	①Water pipe (From HBC/Hydro unit)	②Water pipe (To HBC/Hydro unit)
PFFY-WL20·25·32VCM-A	700	756	802	660	7	600	730	700	750	O.D.ø22	O.D.ø22
PFFY-WL40·50VCM-A	900	956	1002	860	9	800	930	900	950		

PFFY-WL-VEM-A

Floor Standing Exposed Indoor Unit

The **PFFY-WL-VEM-A** floor standing exposed unit connects to the Hybrid Branch Controller and uses water as the heat transfer medium. It is the first unit of its kind in the HVRF range, and is unique to Mitsubishi Electric in the R32 market. The stylish design and quiet operation provide simple and effective air conditioning in perimeter zones. Constructed in a robust casement, and with a depth of only 217mm, it offers a flexible solution for applciations such as offices, retail, high end residential and hospitals.

Key Features & Benefits

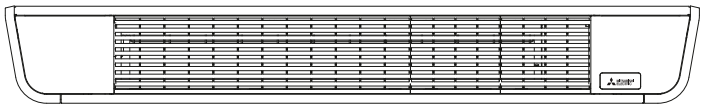
- Perimeter air conditioning for retrofit applications where ceiling void not available
- Compact and stylish design in clear white and pearl grey, blends in with any interior
- DC fan motor and improved heat exchanger design, optimises system efficiency, allowing for low power consumption and running costs
- Wide airflow range with three fan settings (Low-Mid-High) for customised comfort
- Quiet operation as low as 23dBA, for minimal disturbance
- Can be floor mounted or wall mounted for better installation options
- Built-in housing for the remote controller on the unit chassis for convenient control
- Water pipe can be connected from the bottom or rear of the unit enabling improved installation flexibility



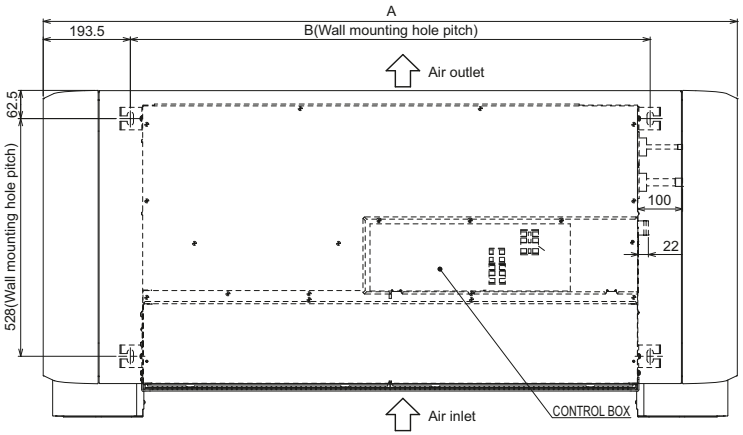
INDOOR UNTS		PFFY-WL20VEM-A	PFFY-WL25VEM-A	PFFY-WL32VEM-A	PFFY-WL40VEM-A	PFFY-WL50VEM-A
CAPACITY (kW)	Heating (nominal)	2.5	3.2	4.0	5.0	6.3
	Cooling (nominal)	2.2	2.8	3.6	4.5	5.6
	UK Heating	2.5	3.2	4.0	5.0	6.3
	UK Total Cooling - Hi (Sensible)	2.00 (1.60)	2.50 (1.90)	3.20 (2.40)	4.00 (3.00)	5.00 (3.80)
	UK Total Cooling - Mi	1.92	2.37	3.05	3.85	4.81
	UK Total Cooling - Lo	1.78	2.14	2.87	3.61	4.50
POWER INPUT (kW)	Heating (nominal)	0.021	0.029	0.036	0.037	0.064
	Cooling (nominal)	0.021	0.029	0.036	0.037	0.064
AIRFLOW (l/s)	Lo-Mi-Hi	83-100-117	92-117-142	108-125-150	133-158-183	175-208-242
SOUND PRESSURE LEVEL (dBA)	Lo-Mi-Hi	23-27-31	25-31-36	29-33-37	29-33-36	35-40-43
WEIGHT (kg)		29.5	29.5	30	35	35
DIMENSIONS (mm)	Width	1142	1142	1142	1342	1342
	Depth	217	217	217	217	217
	Height	726	726	726	726	726
ELECTRICAL SUPPLY		220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
PHASE		Single	Single	Single	Single	Single
RUNNING CURRENT (A)	Heating / Cooling	0.25 / 0.25	0.33 / 0.33	0.38 / 0.38	0.38 / 0.38	0.65 / 0.65
FUSE RATING (BS88) - HRC (A)		6	6	6	6	6
MAINS CABLE No. Cores		3	3	3	3	3
WATER PIPE CONNECTION		20mm I.D	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.

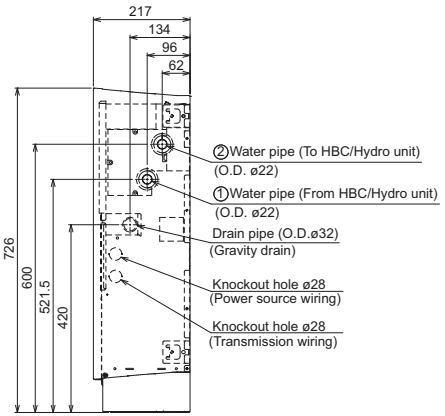
Upper View



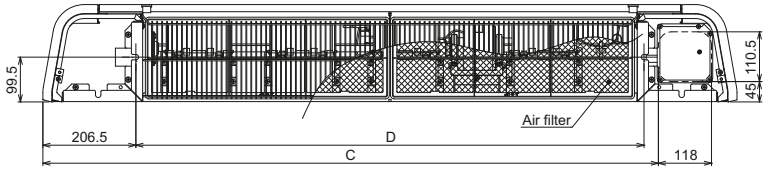
Front View



Side View



Lower View



Model	A	B	C	D	① Water pipe (From HBC/Hydro unit)	② Water pipe (To HBC/Hydro unit)
PFFY-WL20·25·32VEM-A	1142	755	967.5	729	O.D.ø22	O.D.ø22
PFFY-WL40·50VEM-A	1342	955	1167.5	929		

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





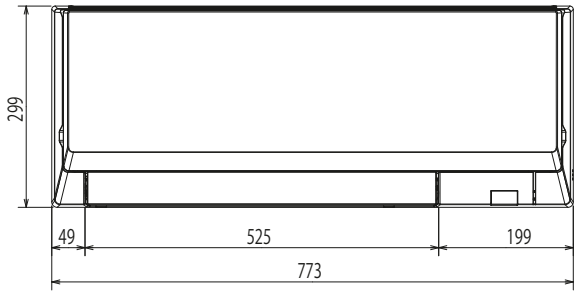


INDOOR UNITS		PKFY-WL10VLM-E	PKFY-WL15VLM-E	PKFY-WL20VLM-E	PKFY-WL25VLM-E	PKFY-WL32VLM-E	PKFY-WL40VLM-E	PKFY-WL50VKM-E	PKFY-WL63VKM-E
CAPACITY (kW)	Heating (nominal)	1.4	1.9	2.5	3.2	4.0	5.0	6.3	8.0
	Cooling (nominal)	1.2	1.7	2.2	2.8	3.6	4.5	5.6	7.1
	UK Heating	1.4	1.9	2.5	3.2	4.0	5.0	6.3	8.0
	UK Total 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 - Mi2	1.08	1.45	1.92	2.38	3.09	3.82	-	-
	UK Total Cooling - Mi1	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-Mi1-Mi2-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-Mi1-Mi2-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

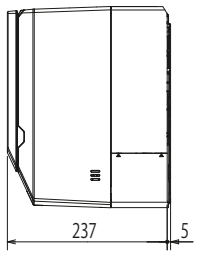
Note: HVRF indoor units can only be configured with the CMB-WM HBC (HVRF) and PURY-(E)M YNW-A1 or PQRY-P YLM-A1 outdoor units.

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

Front View

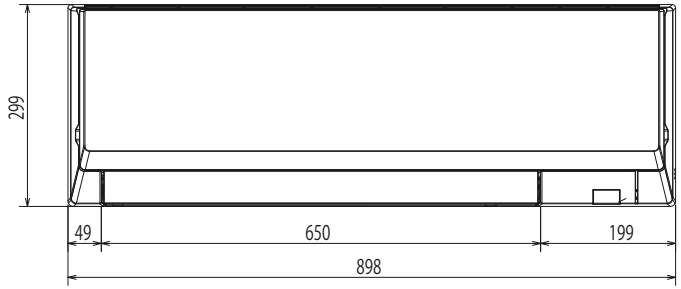


Side View

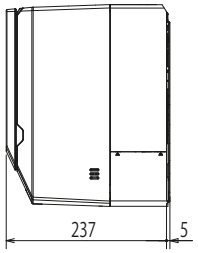


Product Dimensions PKFY-WL32/40VLM-E

Front View

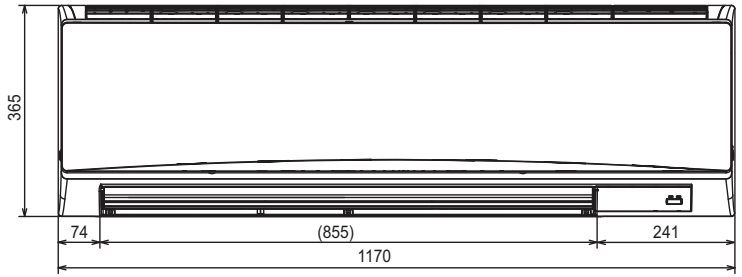


Side View

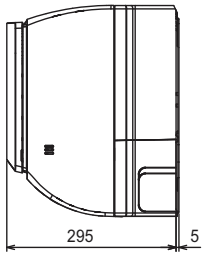


Product Dimensions PKFY-WL50/63VKM-E

Front View



Side View



PCFY-WL-VKM-E

Ceiling Suspended Indoor Unit

Designed for ultra-quiet operation and easy maintenance, the **PCFY-WL-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

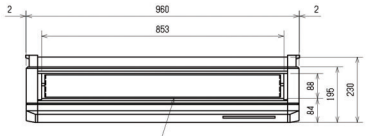


INDOOR UNITS		PCFY-WL40VKM-E	PCFY-WL63VKM-E	PCFY-WL80VKM-E
CAPACITY (kW)	Heating (nominal)	5.0	8.0	10.0
	Cooling (nominal)	4.5	7.1	9.0
	UK Heating	5.0	8.0	10.0
	UK Total Cooling - Hi (Sensible)	4.00 (3.00)	6.40 (4.80)	8.10 (6.10)
	UK Total Cooling - Mi2	3.93	6.22	7.97
	UK Total Cooling - Mi1	3.82	3.09	7.78
	UK Total Cooling - Lo	3.69	5.93	7.40
POWER INPUT (kW)	Heating (nominal)	0.04	0.06	0.08
	Cooling (nominal)	0.04	0.06	0.08
AIRFLOW (l/s)	Lo-Mi1-Mi2-Hi	167-183-200-217	233-250-267-300	350-400-433-467
SOUND PRESSURE LEVEL (dBA)	Lo-Mi1-Mi2-Hi	32-35-37-39	34-37-40-43	39-40-42-44
WEIGHT (kg)		25	32	39
DIMENSIONS (mm)	Width	960	1280	1600
	Depth	680	680	680
	Height	230	230	230
ELECTRICAL SUPPLY		220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
PHASE		Single	Single	Single
RUNNING CURRENT (A)	Heating / Cooling	0.34 / 0.34	0.52 / 0.52	0.69 / 0.69
FUSE RATING (BS88) - HRC (A)		6	6	6
MAINS CABLE No. Cores		3	3	3
WATER PIPE CONNECTION		20mm I.D	30mm I.D	30mm I.D

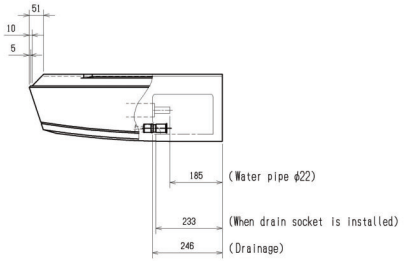
Note: HVRF indoor units can only be configured with the CMB-WM HBC (HVRF) and PURY-(E)M YNW-A1 or PQRY-P YLM-A1 outdoor units.

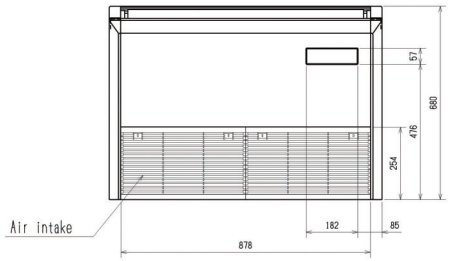
Product Dimensions PCFY-WL40VKM-E

Front View



Side View

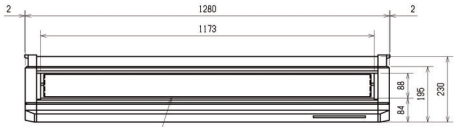




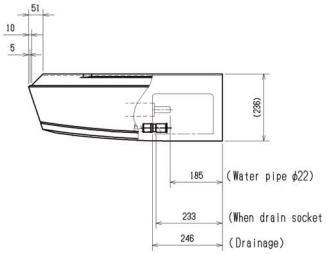
Lower View

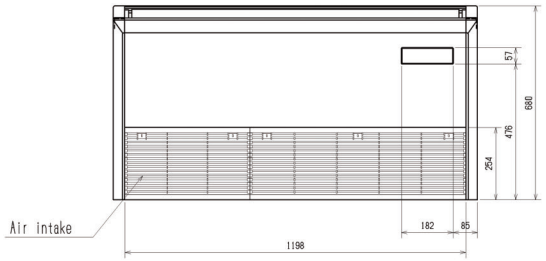
Product Dimensions PCFY-WL63VKM-E

Front View



Side View

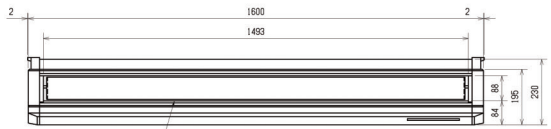




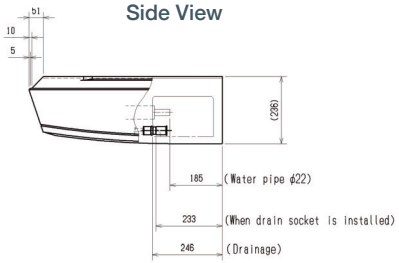
Lower View

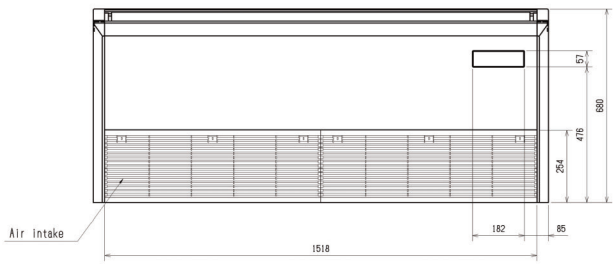
Product Dimensions PCFY-WL80VKM-E

Front View



Side View

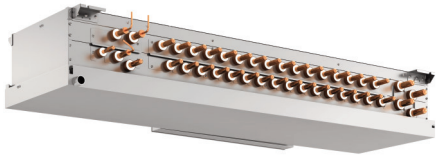


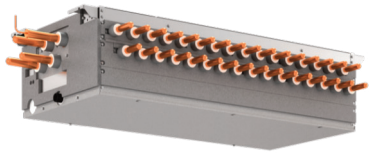


Lower View

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, inverter driven pumps 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

R32 R410A

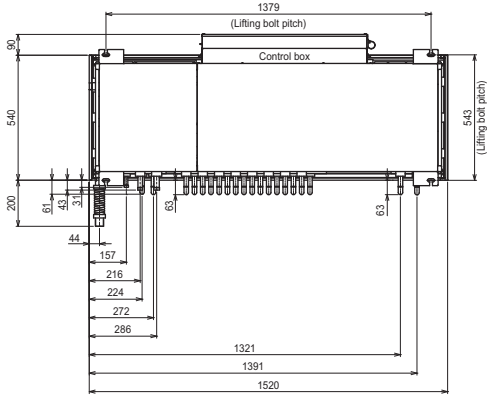
MAIN HBC CONTROLLERS		CMB-WM108V-AA	CMB-WM1016V-AA	CMB-WM350F-AA	CMB-WM500F-AA
NUMBER OF CONNECTIONS		8	16	6	6
ORIENTATION		Horizontal	Horizontal	Vertical	Vertical
COMPATIBILTY		R32 / R410A	R32 / R410A	R32	R32
WEIGHT (kg)		86 (96)*	98 (111)*	196 (216)*	209 (233)*
DIMENSIONS (mm)	Width	1520	1800	800	800
	Depth (Control Box)	540 (630)	540 (630)	500	500
	Height	300	300	1500	1500
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
COMPATIBILTY		R32 / R410A	R32 / R410A
WEIGHT (kg)		40 (45)*	53 (62)*
DIMENSIONS (mm)	Width	930	1210
	Depth (Control Box)	540 (630)	540 (630)
	Height	310	310
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

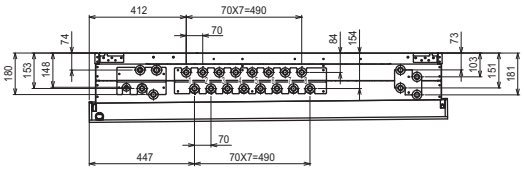
Notes: CMB-WM-V-AA (Main) and CMB-WM-V-BB (Sub) units are for use with PURY-(E)M200-500YNW-A1, PQRY-P200-500YLM-A1 outdoor/condenser units and HVRF indoor units only. CMB-WM-F-AA (Main) and CMB-WM-V-BB (Sub) units are for use with PURY-(E)M200-500YNW-A1 outdoor units and HVRF indoor units only.
One CMB-WM-V-AA unit can be used on PURY-(E)M200-250YNW-A1 and PQRY-P200-250YNW-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

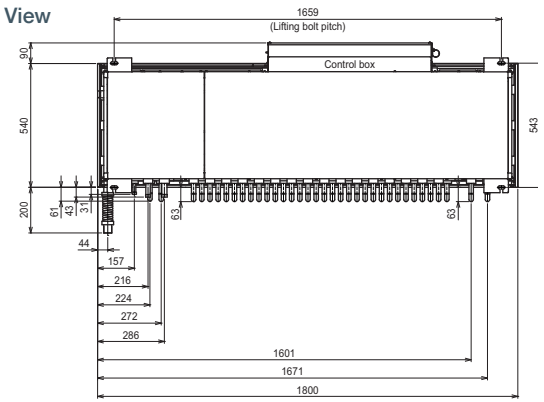


Side View

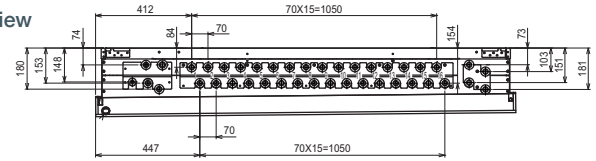


Product Dimensions CMB-WM1016V-AA

Upper View

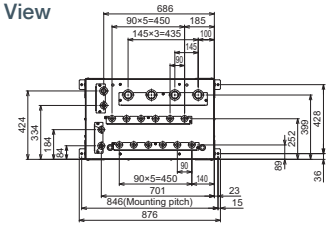


Side View

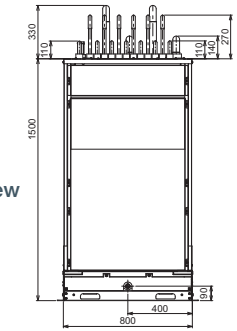


Product Dimensions CMB-WM350/500F-AA

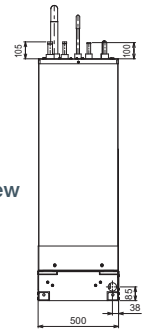
Upper View



Front View

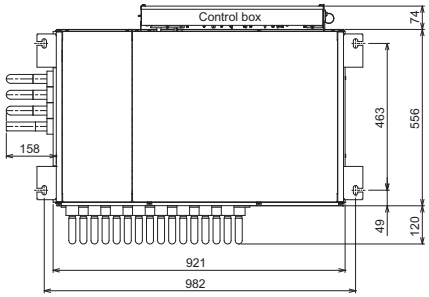


Side View

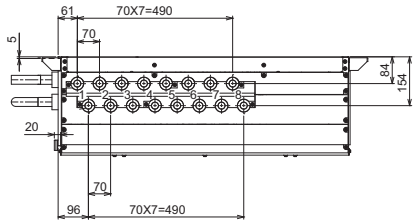


Product Dimensions CMB-WM108V-BB

Upper View

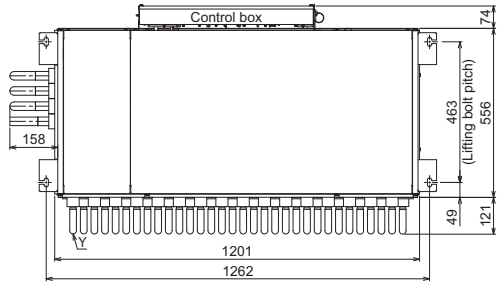


Side View

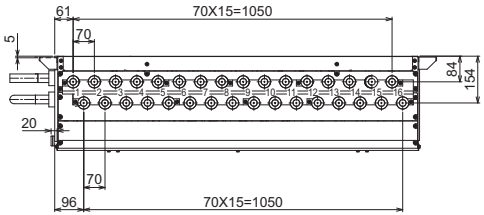


Product Dimensions CMB-WM1016V-BB

Upper View



Side View



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-EP201S
Indoor Units	
Remote Temperature Sensor	PAC-SE42TS-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
Black grille (Satin finish) for PLFY-WL-VFM-E	SLP-2FA-B
3D i-see sensor grille for PLFY-WL-VFM-E	SLP-2FAE
Grille for PLFY-WL-VEM-E	PLP-6EA
Black grille (Matt finish) for PLFY-WL-VEM-E	PLP-6EAB
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
Floor Standing Indoor Units	
Back panel for PFFY-WL20-32VEM-A	PAC-BP32VEM-E
Back panel for PFFY-WL40/50VEM-A	PAC-BP50VEM-E
Wall Mounted Indoor Units	
Plasma Quad Connect air purifying device for PKFY-WL-VLM-E / VKM-E	MAC-100FT-E

MITSUBISHI ELECTRIC

Commercial Heat Pumps & Chillers

A new generation of energy saving
and innovative technology





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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

INTEGRA

CLIMAVENETA



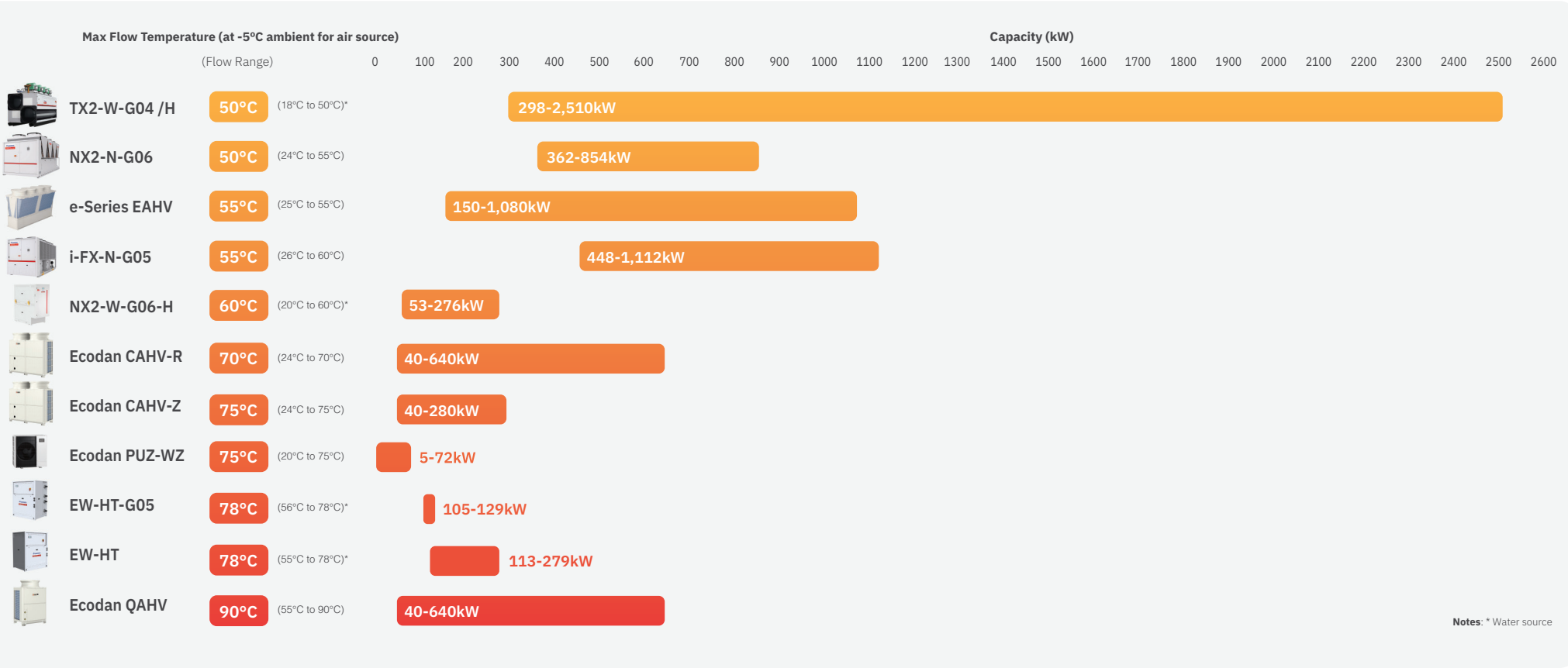
Our Commercial Heating range at a glance

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.



ecodan

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.

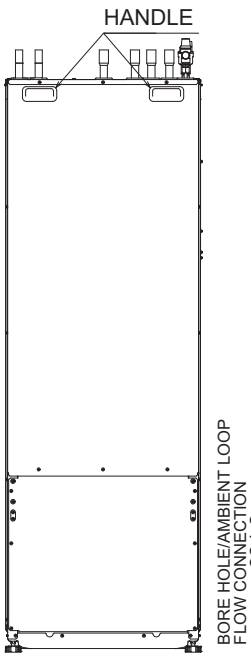
Key Features & Benefits

- 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

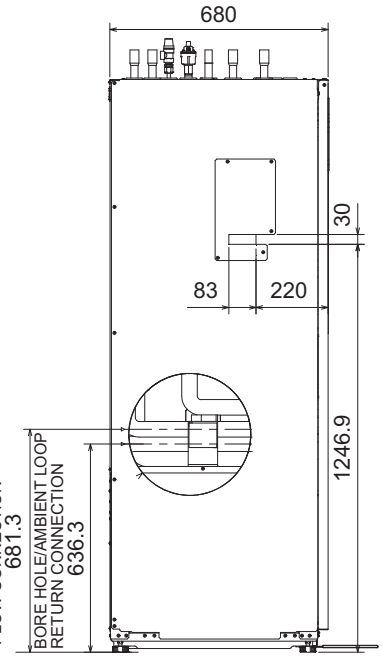
R32

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

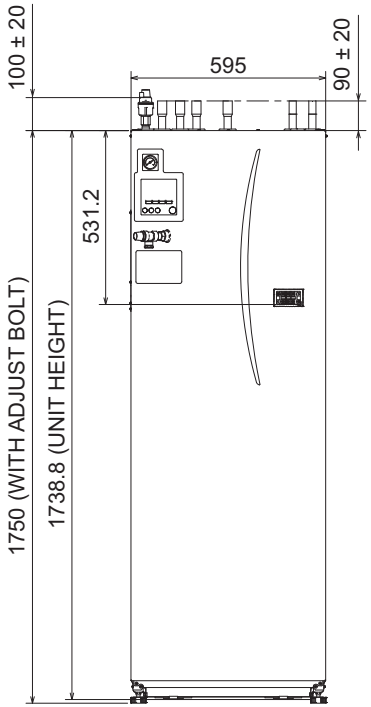
Rear View



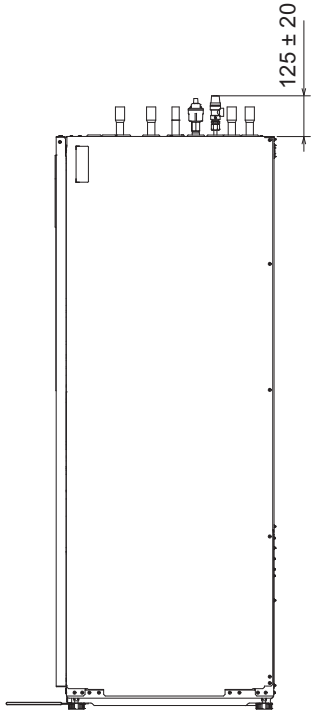
Left Side View



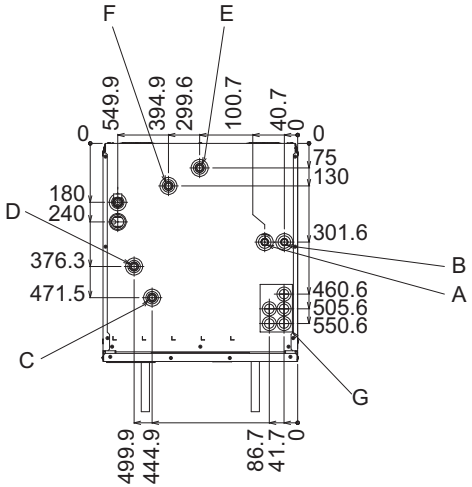
Front View



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

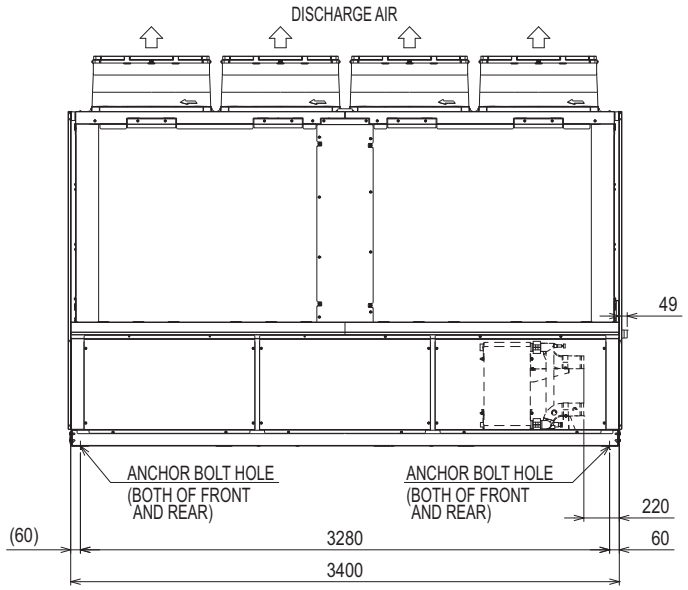
MODEL			EAHV-M1500YCL-N	EAHV-M1800YCL-N
POWER SOURCE			3-phase 4-wire 380-400-415v 50/60Hz	3-phase 4-wire 380-400-415v 50/60Hz
COOLING CAPACITY*1		kW	150	180
	Power Input	kW	44.73	57.02
	EER		3.35	3.16
	IPLV*6		6.42	6.31
	Water Flow Rate	m^3/h	25.8	31.0
COOLING CAPACITY (EN14511)*2		kW	149.18	178.80
	Power Input	kW	45.55	58.22
	EER		3.28	3.07
	Eurovent Efficiency Class		A	B
	SEER		5.52	5.36
	Performance ($\eta_{s,c}$)	%	217.8	211.4
	Water Flow Rate	m^3/h	25.8	31.0
HEATING CAPACITY*3		kW	150	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		kW	150.82	181.20
	Power Input	kW	43.43	54.29
	COP		3.47	3.34
	SCOP Low/Medium*7		3.31/2.88	3.31/2.88
	Water Flow Rate	m^3/h	25.8	31.0
CURRENT INPUT	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	Standard Piping	kPa	56	79
	Inside Header Piping	kPa	134	190
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		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 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:

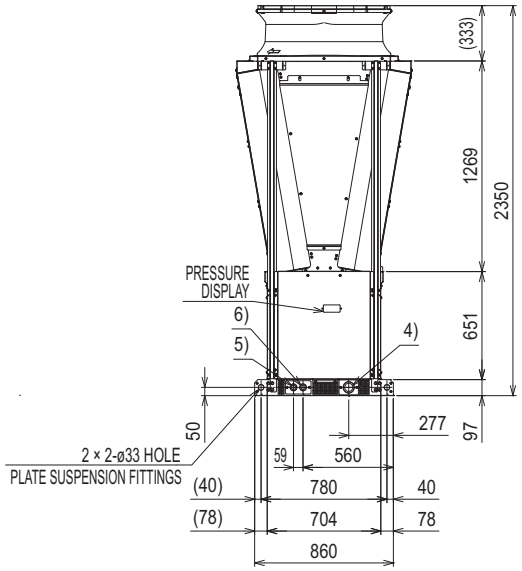
1. Under normal cooling conditions at outdoor temp 35°CDB/24°CWB (95°FDB / 75.2°FWB) outlet water temp 7°C (44.6°F) inlet water temp 12°C (53.6°F). Pump input is not included in cooling capacity and power input.
2. Under normal cooling conditions at outdoor temp 35°CDB/24°CWB (95°FDB/75.2°FWB) outlet 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. 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.
4. 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.
5. The unit is delivered fully charged with refrigerant. No additional refrigerant is required.
6. IPLV is calculated in accordance with AHRI 550-590.
7. This value is not certified by Eurovent.

*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.

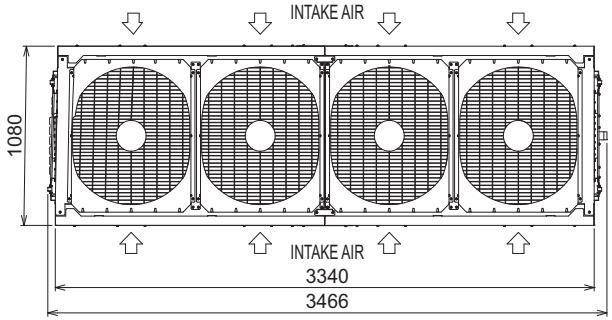
Front View



Side View



Upper View



ecodan®

CAHV-Z R290 Air Source Heat Pump

The Mitsubishi Electric Ecodan **CAHV-Z** delivers powerful, low-carbon heating and hot water using ultra-low R290 GWP refrigerant.

Perfect for a wide range of commercial applications such as schools and hospitals, it can operate as a standalone unit or in scalable multi-unit systems. In a multi-unit setup, units cascade and rotate to meet demand, with a 7-unit system delivering up to 280kW* of efficient, reliable heating and hot water all year round.

* At nominal conditions A7W45

Key Features & Benefits

- Ultra-Low GWP R290 Refrigerant - Reduces embodied carbon, helping future-proof projects and support ambitious CSR and sustainability targets
- High-Temperature Heating Performance - Delivers water temperatures up to 75°C, even at -15°C ambient, ensuring reliable comfort in demanding conditions
- Scalable Cascade Control - Multiple units can be combined and managed in cascade, providing maximum design freedom for a wide range of applications
- Wide Water Temperature Range Without Boost Heaters - Supplies 24°C -75°C flow temperatures without electric boosters, reducing energy consumption, running costs, and system complexity
- Rapid Defrost Operation - Minimises system downtime during defrost, helping maintain consistent heating performance in cold conditions
- Integrated R290 Safety Features - Built-in leak detection and an explosionproof relay support safe, compliant operation alongside peace of mind
- Quiet, Adaptable Operation - Low Noise Mode that minimises sound levels, and External Static Pressure Control allows flexible system design
- Anti-Simultaneous Defrost Control - Prevents full system shutdown during defrost cycles, ensuring continuous heating delivery

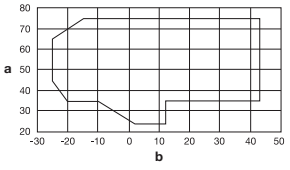
R290



MODEL			CAHV-Z450YA-HPB(-BS)
POWER SOURCE			3-phase 4-wire 380-400-415v, 50/60Hz
CAPACITY(EN14511) *1		kW	40
	Power input	kW	12.62
	Current input	A	21.3-20.2-19.5
	COP (kW/kW)		3.17
	SCOP Low/Medium		4.12 / 3.25
	Water Flow Rate	m³/h	6.88
CAPACITY *2		kW	37.5
	Power input	kW	18.39
	Current input	A	31.1-29.5-28.4
	COP (kW/kW)		2.04
MAXIMUM CURRENT INPUT		A	45.6
WATER PRESSURE DROP *3		kPa (psi)	10.2 (1.47)
TEMPERATURE RANGE *4	Outlet water temperature	°C	24 ~ 75
	Outdoor temperature	°C	-25 ~ 43
CIRCULATING WATER VOLUME RANGE *5		m³/h	4.0 ~ 7.0
SOUND PRESSURE LEVEL (measured 1m below the unit in an anechoic room) *1*6		dB (A)	65
SOUND PRESSURE LEVEL (measured 1m below the unit in an anechoic room) *6*7		dB (A)	72
WATER PIPE DIAMETER AND TYPE	Inlet	mm (in)	40A, Rc 1-1/2B
	Outlet	mm (in)	40A, Rc 1-1/2B
EXTERNAL FINISH			Acrylic painted steel sheet <Munsell 5Y 8/1 or similar>
EXTERNAL DIMENSIONS (Width x Depth x Height)		mm	1750 × 740 x 1710
NET WEIGHT		kg	363
DESIGN PRESSURE	R290	MPa	3.85
	Water	MPa	1.0
HEAT EXCHANGER	Water-side		Copper brazed stainless steel sheet
	Air-side		Plate fins and copper tubes
COMPRESSOR	Type		Inverter scroll hermetic compressor
	Manufacturer		Mitsubishi Electric Corporation
	Starting method		Inverter
	Motor output	kW	10.8
	Lubricant		PZ46M
FAN	Air flow rate	L/s	2500 × 2
	External static pressure / External static pressure mode		10 Pa (1 mm H2O) / 40 Pa (4 mm H2O)
	Type and quantity		Propeller fan × 2
	Control and driving mechanism		Inverter control, direct driven by motor
	Motor output	kW	0.92 × 2
HIC (Heat Inter-Changer) CIRCUIT			Copper pipe
PROTECTION DEVICES	High pressure		High-pressure sensor and switch set at 3.85 MPa
	Inverter circuit		Overheat and overcurrent protection
	Compressor		Overheat protection
	Fan motor		Thermal switch
DEFROSTING METHOD			Auto-defrost mode (Reversed refrigerant cycle)
REFRIGERANT	Type and factory charge	kg	R290, 4.8 kg
	Flow and temperature control		LEV and HIC circuit

Notes:

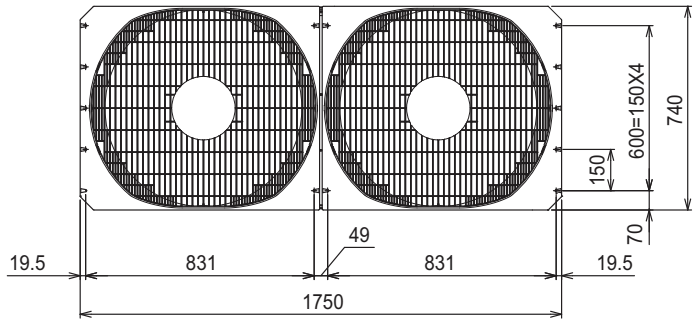
*1 Under normal heating conditions at the outdoor temperature of 7°CDB/6°CWB, the outlet water temperature of 45°C, and the inlet water temperature of 40°C.
*2 Under normal heating conditions at the outdoor temperature of -5°CDB/-6°CWB and the outlet water temperature of 55°C.
*3 Under normal heating conditions at the outdoor temperature of 7°CDB/6°CWB through the dry NC-contact.
*4



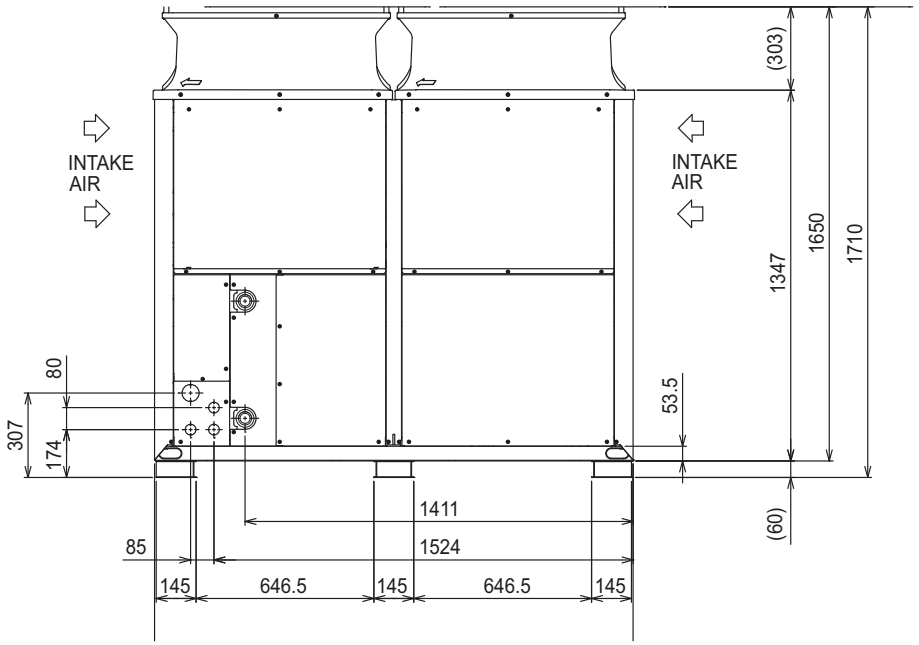
a: Outlet water temp. (°C)
b: Outdoor temp. (°C)
Keep inlet water temp. of 19°C or higher during the unit operation.

*5 The unit can operate at the water volume range of 1.5 - 4.0m³/h if the water volume exceeds 4.0m³/h during defrost cycle. The defrost signal is output from the terminal block of the unit.
*6 SPL is the value measured in an anechoic room at 1m away from the unit and 1.5m above the floor.
*7 Under conditions with maximum compressor frequency and fan rotated speed.

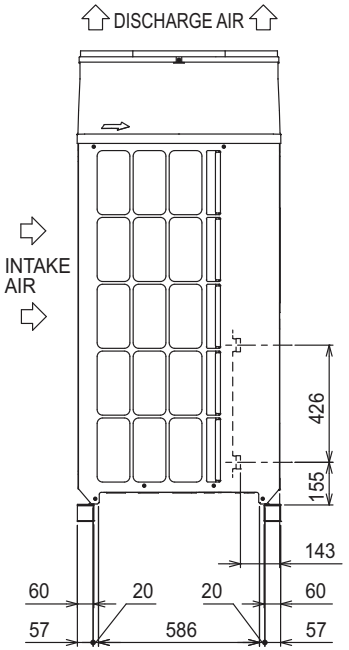
Upper View



Front View



Side View



ecodan®

CAHV-R R454C Air Source Heat Pump

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

A multiple unit system has the ability to cascade available units on and off to meet the load requirements of a building. As an example of this unique modulation, a 16 unit system allows 0.5kW increments of capacity, from 7.9kW all the way up to 640kW*. With cascade and rotation built in as standard, the Ecodan CAHV-R is perfectly set up to reliably generate sustainable space heating and hot water all year round.

Key Features & Benefits

* At nominal conditions A7W45

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

R454C



CERTIFIED

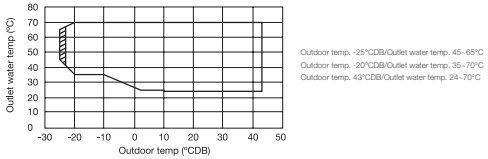
Certificate Number: 037-0113-23
Product (Type): Outdoor Air/Water
Product Reference: CAHV-R450YA-HPB

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

MODEL			CAHV-R450YA-HPB(-BS)
POWER SOURCE			3-phase 4-wire 380-400-415V 50/60 Hz
CAPACITY(EN14511)*1		kW	40
	Power input	kW	14.03
	Current input	A	23.7-22.5-21.7
	COP (kW/kW)		2.85
	SCOP Low/Medium		3.57/3.24
CAPACITY*2		kW	33.4
	Power input	kW	16.6
	Current input	A	28.0-26.6-25.7
	COP (kW/kW)		2.01
MAXIMUM CURRENT INPUT		A	44.0-41.8-40.3
WATER PRESSURE DROP*1			10.2 kPa (1.47 psi)
TEMPERATURE RANGE*5	Outlet water temperature		24 - 70°C
	Outdoor temperature	D.B.	-25 - 43°C
CIRCULATING WATER VOLUME RANGE*5		m^3/h	1.5 - 15.0
SOUND PRESSURE LEVEL (measured 1m below the unit in an anechoic room)*1*4		dB(A)	64
SOUND PRESSURE LEVEL (measured 1m below the unit in an anechoic room)*3*4		dB(A)	72
WATER PIPE DIAMETER AND TYPE	Inlet	mm (in)	38.1 (1 1/2"), housing type joint
	Outlet	mm (in)	38.1 (1 1/2"), housing type joint
EXTERNAL FINISH			Acrylic painted steel sheet <Munsell 5Y 8/1 or similar>
EXTERNAL DIMENSIONS (Width x Depth x Height)		mm	1750 x 740 x 1710
NET WEIGHT		kg	359
DESIGN PRESSURE	R454C	MPa	3.85
	Water	MPa	1.0
HEAT EXCHANGER	Water-side		Copper brazed stainless steel sheet
	Air-side		Plate fins and copper tubes
COMPRESSOR	Type		Inverter scroll hermetic compressor
	Manufacturer		MITSUBISHI ELECTRIC CORPORATION
	Starting method		Inverter
	Motor output	kW	12.1
	Lubricant		FVC32EA
FAN	Air flow rate	L/s	2500 × 2
	External static pressure		10 Pa (1mm H2O)
	Type and quantity		Propeller fan × 2
	Control and driving mechanism		Inverter control, direct driven by motor
	Motor output	kW	0.92 × 2
HIC (HEAT INTER-CHANGER) CIRCUIT			Copper pipe
PROTECTION DEVICES	High pressure		High-pressure sensor and switch set at 3.85 MPa (643 psi)
	Inverter circuit		Overheat and overcurrent protection
	Compressor		Overheat protection
	Fan motor		Thermal switch
DEFROSTING METHOD			Auto-defrost mode (Reversed refrigerant cycle)
REFRIGERANT	Type and factory charge	kg	R454C, 9.0 kg
	Flow and temperature control		LEV and HIC circuit

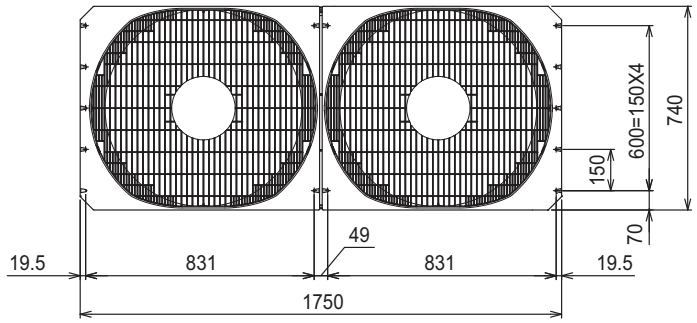
Notes:

1. Under normal heating conditions at the outdoor temperature of 7°CDB/6°CWB, the outlet water temperature of 45°C, and the inlet water temperature of 40°C.
2. Under normal heating conditions at the outdoor temperature of -5°CDB/-6°CWB and the outlet water temperature of 55°C.
3. 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.
4. The sound pressure level is a value measured in an anechoic room in accordance with the conventional method in JRA4060.
5.

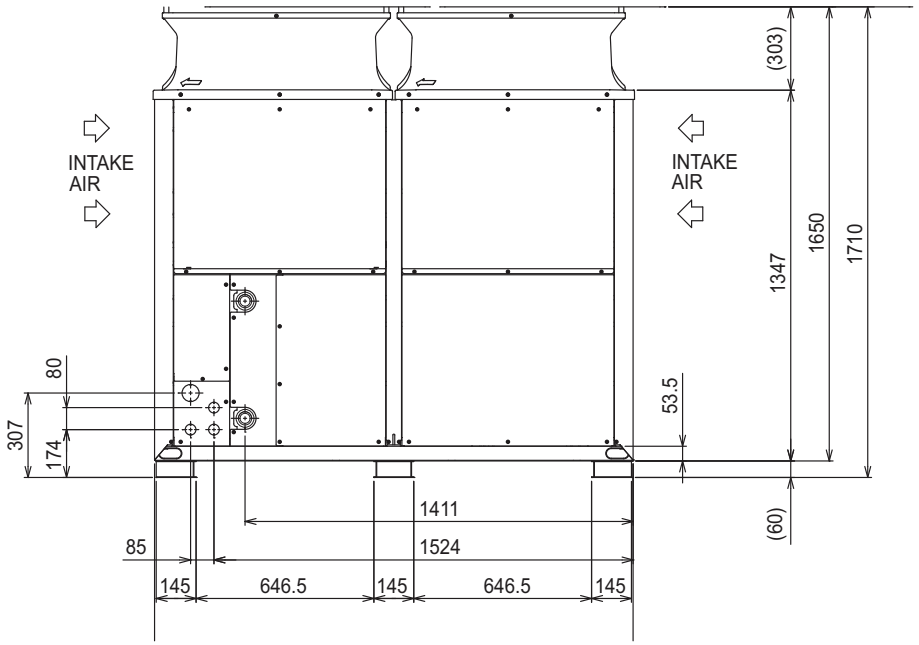


6. 4.0 - 15.0 m^3/h under the following conditions:
   a. When the outdoor temperature is below 0°C,
   b. When the outlet water temperature is 30°C or below AND the outdoor temperature is 6°C or below.

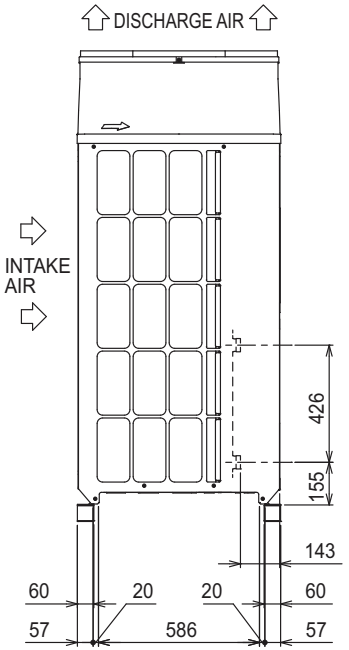
Upper View



Front View



Side View



ecodan®

QAHV R744 Air Source Heat Pump

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

Utilising the natural and stable refrigerant CO_2 (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 CO_2 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

R744



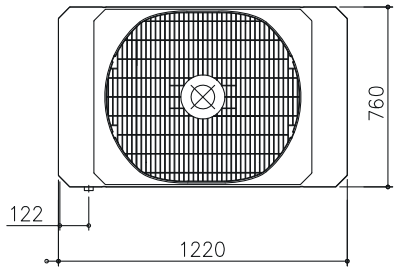
MODEL		QAHV-N560YA-HPB
WATER HEATING 65°C *1	CAPACITY (kW)	40
	POWER INPUT (kW)	10.31
	CURRENT INPUT (A)	16.3
	COP	3.88
WATER HEATING 65°C *2	CAPACITY (kW)	40
	POWER INPUT (kW)	10.97
	CURRENT INPUT (A)	18.3
	COP	3.65
WATER HEATING 65°C *3	CAPACITY (kW)	40
	POWER INPUT (kW)	11.6
	CURRENT INPUT (A)	18.7
	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:

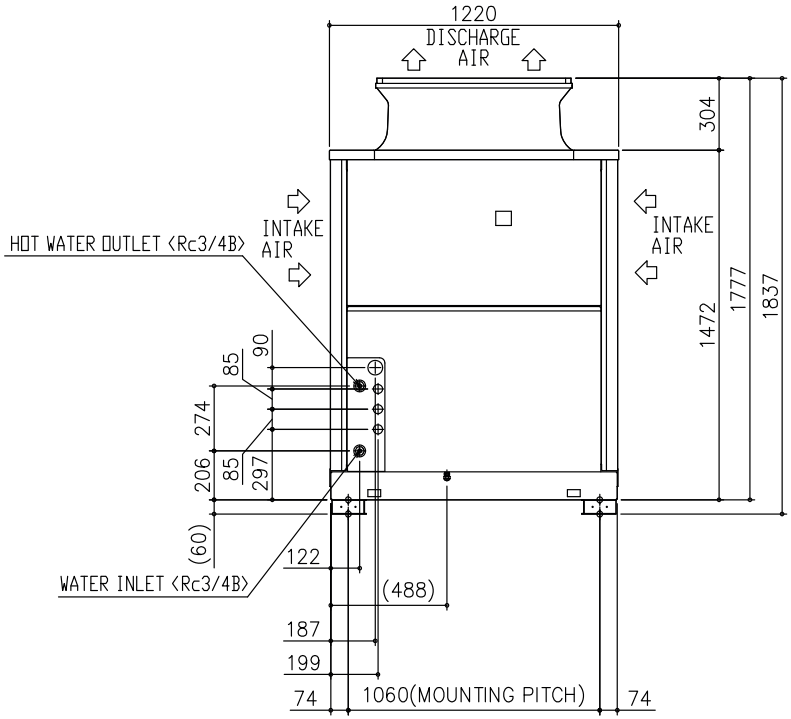
1. Under Normal heating conditions at the outdoor temp, 16°CDB/12°CWB, the outlet water temperature 65°C, and the inlet water temperature 17°C
2. Under Normal heating conditions at the outdoor temp, 7°CDB/6°CWB, the outlet water temperature 65°C, and the inlet water temperature 9°C
3. Under Normal heating 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

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

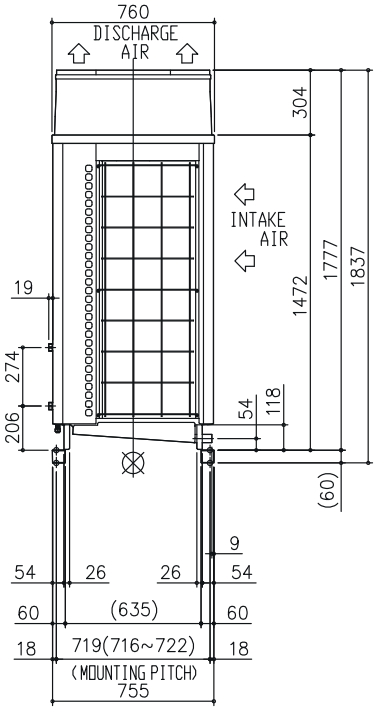
Upper View



Front View



Side View



NX2-N-G06 R454B Air Source Heat Pump

(365 to 580kW)

Standard Version (/K)



Mitsubishi Electric's **NX2-N-G06** is our flexible air source heat pump, using rotary scroll compressors, axial-flow fans, shell and tubes exchanger and an electronic expansion valve as standard.

Key Features & Benefits

- Exceptional seasonal efficiency in a compact footprint
- High efficiency scroll compressors in a multi-circuit configuration
- EC fans available as an option for improved efficiency
- Low GWP refrigerant R454B

R454B

MODEL			0344	0364	0404	0446	0506	0526	0546
PERFORMANCE - HEATING ONLY*2 *3									
TOTAL HEATING CAPACITY		kW	365.2	387.0	415.4	470.0	513.3	560.7	580.5
COP		kW/kW	3.02	3.06	3.04	2.98	3.00	3.05	3.07
SEASONAL PERFORMANCE HEATING (EN14825 VALUE) - LOW TEMPERATURE*11									
RATED HEAT OUTPUT AT Tdesign, h		kW	268.0	294.0	323.0	369.0	388.0	363.0	373.0
SCOP			3.60	3.70	3.73	3.66	3.53	3.49	3.53
SEASONAL SPACE HEATING EFFICIENCY		%	141	145	146	143	138	137	138
PERFORMANCE - COOLING ONLY*1 *2									
COOLING CAPACITY		kW	334.3	354.7	382.0	430.2	475.1	515.9	533.1
EER		kW/kW	2.69	2.78	2.67	2.62	2.68	2.78	2.79
SEASONAL EFFICIENCY IN COOLING (REG.EU 2016/2281)*12									
Prated,C		kW	334.3	354.7	382.0	430.2	475.1	515.9	533.1
SEER			3.93	4.04	4.07	4.01	3.93	4.07	4.10
ELECTRICAL DATA									
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
MAX F.L.A.*10	Total	A	257	270	297	333	365	392	405
EXCHANGERS									
MINIMUM WATER FLOW		l/s	10.58	11.31	12.33	13.89	13.89	17.50	17.50
MINIMUM WATER CONTENT		l/s	27.58	26.72	29.92	36.11	36.11	38.89	38.89
REFRIGERANT CIRCUIT									
COMPRESSORS		No.	4	4	4	6	6	6	6
CIRCUITS		No.	2	2	2	3	3	3	3
THEORETICAL REFRIGERANT CHARGE		kg	65	68	68	84	87	98	113
NOISE LEVELS									
TOTAL SOUND PRESSURE*5		dB(A)	76	76	76	76	76	76	76
TOTAL SOUND POWER LEVEL IN COOLING*6 *7		dB(A)	96	96	96	96	97	97	97
TOTAL SOUND POWER LEVEL IN HEATING*6 *8		dB(A)	96	96	96	96	97	97	97
SIZE AND WEIGHT*9									
WIDTH		mm	3905	3905	3905	4515	5690	5690	5690
DEPTH		mm	2260	2260	2260	2260	2260	2260	2260
HEIGHT		mm	2450	2450	2450	2450	2450	2450	2450
OPERATION WEIGHT		kg	3030	3110	3150	4040	4400	4530	4600

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; Source (side) heat exchanger air (in) 35.0°C; Plant (side) heat exchanger recovery water (in/out) 40.00°C/45.00°C.
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 taken in compliance with ISO 9614.
7. Sound power level in cooling, outdoors.
8. Sound power level in heating, outdoors.
9. Unit in standard configuration, without optional accessories.
10. Values calculated referring to the version with the maximum number of fans working at the max absorbed current. Safety values to be considered when cabling the unit for power supply and line-protections. Data valid for standard units without any additional option.
11. Seasonal space heating energy efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013].
12. Parameter calculated according to [REGULATION (EU) N. 2016/2281].

Eurovent Certified Data

NX2-N-G06 R454B Air Source Heat Pump

(362 to 569kW)

Super-Low Noise Version (/SL)



Mitsubishi Electric's **NX2-N-G06** is our flexible air source heat pump, using rotary scroll compressors, axial-flow fans, shell and tubes exchanger and an electronic expansion valve as standard.

Key Features & Benefits

- Exceptional seasonal efficiency in a compact footprint
- High efficiency scroll compressors in a multi-circuit configuration
- EC fans available as an option for improved efficiency
- Low GWP refrigerant R454B

R454B

MODEL			0344	0364	0404	0446	0506	0526	0546
PERFORMANCE - HEATING ONLY*2 *3									
TOTAL HEATING CAPACITY		kW	362.5	379.6	420.6	471.4	511.7	552.6	569.4
COP		kW/kW	3.13	3.11	3.16	3.09	3.11	3.13	3.12
SEASONAL PERFORMANCE HEATING (EN14825 VALUE) - LOW TEMPERATURE*11									
RATED HEAT OUTPUT AT Tdesign, h		kW	227.0	252.0	319.0	294.0	390.0	356.0	378.0
SCOP			3.67	3.71	3.78	3.67	3.80	3.73	3.72
SEASONAL SPACE HEATING EFFICIENCY		%	144	145	148	144	149	146	146
PERFORMANCE - COOLING ONLY*1 *2									
COOLING CAPACITY		kW	316.0	336.4	370.2	409.0	443.6	486.1	505.7
EER		kW/kW	2.44	2.51	2.54	2.38	2.38	2.49	2.51
SEASONAL EFFICIENCY IN COOLING (REG.EU 2016/2281)*12									
Prated,C		kW	316.0	336.4	370.2	409.0	443.6	486.1	505.7
SEER			4.10	4.13	4.23	4.14	4.10	4.19	4.19
ELECTRICAL DATA									
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
MAX F.L.A.*10	Total	A	257	270	297	333	365	392	405
EXCHANGERS									
MINIMUM WATER FLOW		l/s	10.58	11.31	12.33	13.89	13.89	17.50	17.50
MINIMUM WATER CONTENT		l/s	27.58	26.72	29.92	36.11	36.11	38.89	38.89
REFRIGERANT CIRCUIT									
COMPRESSORS		No.	4	4	4	6	6	6	6
CIRCUITS		No.	2	2	2	3	3	3	3
THEORETICAL REFRIGERANT CHARGE		kg	72	74	85	96	106	112	113
NOISE LEVELS									
TOTAL SOUND PRESSURE*5		dB(A)	68	68	68	68	68	69	69
TOTAL SOUND POWER LEVEL IN COOLING*6 *7		dB(A)	88	88	88	89	89	90	90
TOTAL SOUND POWER LEVEL IN HEATING*6 *8		dB(A)	89	89	89	90	90	91	91
SIZE AND WEIGHT*9									
WIDTH		mm	4515	5080	5080	5690	5690	6865	7430
DEPTH		mm	2260	2260	2260	2260	2260	2260	2260
HEIGHT		mm	2450	2450	2450	2450	2450	2450	2450
OPERATION WEIGHT		kg	3330	3460	3630	4640	4750	5050	5170

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; Source (side) heat exchanger air (in) 35.0°C; Plant (side) heat exchanger recovery water (in/out) 40.00°C/45.00°C.
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 taken in compliance with ISO 9614.
7. Sound power level in cooling, outdoors.
8. Sound power level in heating, outdoors.
9. Unit in standard configuration, without optional accessories.
10. Values calculated referring to the version with the maximum number of fans working at the max absorbed current. Safety values to be considered when cabling the unit for power supply and line-protections. Data valid for standard units without any additional option.
11. Seasonal space heating energy efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013].
12. Parameter calculated according to [REGULATION (EU) N. 2016/2281].

Eurovent Certified Data

NX2-N-G06 R454B Air Source Heat Pump

(376 to 854kW)

High Efficiency Version (/A)



Mitsubishi Electric's **NX2-N-G06** is our flexible air source heat pump, using rotary scroll compressors, axial-flow fans, shell and tubes exchanger and an electronic expansion valve as standard.

Key Features & Benefits

- Exceptional seasonal efficiency in a compact footprint
- High efficiency scroll compressors in a multi-circuit configuration
- EC fans available as an option for improved efficiency
- Low GWP refrigerant R454B

R454B

MODEL			0344	0364	0404	0446	0506	0526	0546	0606	0708	0738	0768	0808
PERFORMANCE - HEATING ONLY*2 *3														
TOTAL HEATING CAPACITY		kW	376.8	397.7	427.2	493.1	531.6	574.2	596.6	640.6	753.4	795.3	826.0	854.1
COP		kW/kW	3.19	3.19	3.20	3.17	3.19	3.20	3.20	3.26	3.26	3.28	3.26	3.26
SEASONAL PERFORMANCE HEATING (EN14825 VALUE) - LOW TEMPERATURE*11														
RATED HEAT OUTPUT AT Tdesign, h		kW	271.0	296.0	321.0	368.0	386.0	356.0	371.0	-	-	-	-	-
SCOP			3.76	3.83	3.79	3.90	3.81	3.80	3.83	-	-	-	-	-
SEASONAL SPACE HEATING EFFICIENCY		%	147	150	149	153	149	149	150	-	-	-	-	-
PERFORMANCE - COOLING ONLY*1 *2														
COOLING CAPACITY		kW	344.9	361.1	399.3	446.0	499.5	525.3	543.0	598.8	696.0	724.2	761.4	798.6
EER		kW/kW	2.92	2.95	2.96	2.90	2.92	2.94	2.95	3.01	3.01	3.01	3.03	3.02
SEASONAL EFFICIENCY IN COOLING (REG.EU 2016/2281)*12														
Prated,C		kW	344.9	361.1	399.3	446.0	499.5	525.3	543.0	598.8	696.0	724.2	761.4	798.6
SEER			4.28	4.39	4.44	4.36	4.28	4.37	4.37	4.56	4.56	4.56	4.58	4.56
ELECTRICAL DATA														
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
MAX F.L.A.*10	Total	A	265	278	305	344	377	404	417	443	511	537	564	590
EXCHANGERS														
MINIMUM WATER FLOW		l/s	10.58	11.31	12.33	13.89	13.89	17.50	17.50	17.50	21.14	22.67	23.72	24.69
MINIMUM WATER CONTENT		l/s	27.58	26.72	29.92	36.11	36.11	38.89	38.89	41.67	51.72	56.67	56.67	60.36
REFRIGERANT CIRCUIT														
COMPRESSORS		No.	4	4	4	6	6	6	6	6	8	8	8	8
CIRCUITS		No.	2	2	2	3	3	3	3	3	4	4	4	4
THEORETICAL REFRIGERANT CHARGE		kg	81	86	87	109	112	124	133	133	162	173	174	176
NOISE LEVELS														
TOTAL SOUND PRESSURE*5		dB(A)	77	77	77	76	77	77	77	78	77	78	78	78
TOTAL SOUND POWER LEVEL IN COOLING*6 *7		dB(A)	97	97	97	97	98	98	98	99	99	100	100	100
TOTAL SOUND POWER LEVEL IN HEATING*6 *8		dB(A)	97	97	97	97	98	98	98	-	-	-	-	-
SIZE AND WEIGHT*9														
WIDTH		mm	5080	5080	5080	6255	7430	7430	7430	7430	9780	9780	9780	9780
DEPTH		mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT		mm	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450
OPERATION WEIGHT		kg	3350	3440	3480	4650	4900	5060	5140	5200	6580	6760	6800	6840

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; Source (side) heat exchanger air (in) 35.0°C; Plant (side) heat exchanger recovery water (in/out) 40.00°C/45.00°C.
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 taken in compliance with ISO 9614.
7. Sound power level in cooling, outdoors.
8. Sound power level in heating, outdoors.
9. Unit in standard configuration, without optional accessories.
10. Values calculated referring to the version with the maximum number of fans working at the max absorbed current. Safety values to be considered when cabling the unit for power supply and line-protections. Data valid for standard units without any additional option.
11. Seasonal space heating energy efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013].
12. Parameter calculated according to [REGULATION (EU) N. 2016/2281].

Eurovent Certified Data

i-FX-N-G05 R513A Air Source Heat Pump

(453 to 1,112kW)

High Efficiency Version (/A)



CLIMAVENETA

Mitsubishi Electric's **i-FX-N-G05** is our high performance reversible air source heat pump, complete with Variable Speed Drive (VSD) screw compressors and EC fans as standard.

Key Features & Benefits

- Very high seasonal efficiency in a compact footprint, offering full inverter technology
- High efficiency inverter screw compressors providing a dual refrigeration circuit resulting in lower running costs and resilient operation
- EC Fans supplied as standard
- Available options include; inbuilt hydronic pumps (fixed speed or inverter), thermal and energy meters, Smart LAN functions and many more
- Cu/Al Auxiliary Heat Exchangers supplied as standard, other protection coatings are available
- Smart defrost to increase operation time, increase COP and minimise impact on leaving water temperature

R513A

MODEL			0472	0512	0572	0602	0652	0772	0902	1002	1152
PERFORMANCE - HEATING ONLY *2 *3											
TOTAL HEATING CAPACITY		kW	453.2	506.8	547.9	575.7	664.3	748.1	872.0	1007	1112
COP		kW/kW	3.23	3.29	3.26	3.27	3.26	3.32	3.31	3.39	3.36
SEASONAL EFFICIENCY IN HEATING - LOW TEMPERATURE *4											
RATED HEAT OUTPUT AT Tdesign, h		kW	348.0	384.0	-	-	-	-	-	-	-
SCOP			4.00	4.03	-	-	-	-	-	-	-
PERFORMANCE - COOLING ONLY *1 *2											
COOLING CAPACITY		kW	464.6	517.4	549.4	590.4	669.4	763.6	898.8	1033	1153
EER		kW/kW	2.78	2.88	2.80	2.78	2.79	2.85	2.84	2.91	2.93
SEASONAL EFFICIENCY IN COOLING *5											
Prated,C		kW	464.6	517.4	549.4	590.4	669.4	763.6	898.8	1033	1153
SEER			4.74	4.78	4.83	4.84	4.76	4.82	4.83	4.79	4.84
PERFORMANCE ηs		%	187	188	190	190	188	190	190	189	191
ELECTRICAL DATA											
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
MAX F.L.A. *6	Total	A	354	384	407	429	482	531	632	749	821
EXCHANGERS											
MINIMUM WATER FLOW		l/s	11.67	14.69	14.69	14.25	15.50	18.06	22.22	22.22	27.78
MINIMUM WATER CONTENT	System	l	1630	1800	1920	2070	2340	2670	3150	3620	4040
REFRIGERANT CIRCUIT											
COMPRESSORS		No.	2	2	2	2	2	2	2	2	2
CIRCUITS		No.	2	2	2	2	2	2	2	2	2
THEORETICAL REFRIGERANT CHARGE		kg	233	259	253	276	288	391	495	518	618
NOISE LEVELS											
TOTAL SOUND PRESSURE *7		dB(A)	80	81	81	81	81	81	81	82	82
TOTAL SOUND POWER LEVEL IN COOLING *8 *9		dB(A)	100	102	102	102	102	103	103	105	105
TOTAL SOUND POWER LEVEL IN HEATING *8 *10		dB(A)	101	103	103	103	103	104	104	106	106
SIZE AND WEIGHT *11											
WIDTH		mm	4900	5800	5800	5800	7000	7900	10000	11800	11800
DEPTH		mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT		mm	2580	2580	2580	2580	2580	2580	2580	2580	2580
OPERATION WEIGHT		kg	6400	6894	7033	7256	7518	8551	9835	11578	12651

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 space heating energy efficiency class [REGULATION (EU) N. 813/2013] - Average Weather Conditions. Calculation with variable waterflow and variable temperature.
5. Parameter calculated according to [REGULATION (EU) N. 2016/2281] - EN14825.
6. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to databook.
7. 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.
8. Sound power level on the basis of measurement taken in compliance with ISO 9614.
9. Sound power level in cooling, outdoors.
10. Sound power level in heating, outdoors.
11. Unit in standard configuration, without optional accessories.

Eurovent Certified Data

i-FX-N-G05 R513A Air Source Heat Pump

(448 to 1,101kW)

Super-Low Noise, High Efficiency Version (/SL-A)



Mitsubishi Electric's **i-FX-N-G05** is our high performance reversible air source heat pump, complete with Variable Speed Drive (VSD) screw compressors and EC fans as standard.

Key Features & Benefits

- Very high seasonal efficiency in a compact footprint, offering full inverter technology
- High efficiency inverter screw compressors providing a dual refrigeration circuit resulting in lower running costs and resilient operation
- EC Fans supplied as standard
- Available options include; inbuilt hydronic pumps (fixed speed or inverter), thermal and energy meters, Smart LAN functions and many more
- Cu/Al Auxiliary Heat Exchangers supplied as standard, other protection coatings are available
- Smart defrost to increase operation time, increase COP and minimise impact on leaving water temperature

R513A

MODEL			0472	0512	0572	0602	0652	0772	0902	1002	1152
PERFORMANCE - HEATING ONLY *2 *3											
TOTAL HEATING CAPACITY		kW	448.6	500.4	542.4	568.3	657.9	740.6	863.2	997.3	1101
COP		kW/kW	3.24	3.30	3.28	3.28	3.27	3.34	3.32	3.42	3.38
SEASONAL EFFICIENCY IN HEATING - LOW TEMPERATURE *4											
RATED HEAT OUTPUT AT Tdesign, h		kW	347.0	383.0	-	-	-	-	-	-	-
SCOP			4.02	4.03	-	-	-	-	-	-	-
PERFORMANCE - COOLING ONLY *1 *2											
COOLING CAPACITY		kW	443.6	497.1	531.4	570.3	648.7	740.2	869.6	997.3	1113
EER		kW/kW	2.62	2.77	2.67	2.61	2.67	2.74	2.73	2.79	2.79
SEASONAL EFFICIENCY IN COOLING *5											
Prated,C		kW	443.6	497.1	531.4	570.3	648.7	740.2	869.6	997.3	1113
SEER			4.71	4.77	4.81	4.80	4.74	4.80	4.82	4.78	4.82
PERFORMANCE ηs		%	185	188	190	189	187	189	190	188	190
ELECTRICAL DATA											
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
MAX F.L.A. *6	Total	A	354	384	407	429	482	531	632	749	821
EXCHANGERS											
MINIMUM WATER FLOW		l/s	11.67	14.69	14.69	14.25	15.50	18.06	22.22	22.22	27.78
MINIMUM WATER CONTENT	System	l	1630	1800	1920	2070	2340	2670	3150	3620	4040
REFRIGERANT CIRCUIT											
COMPRESSORS		No.	2	2	2	2	2	2	2	2	2
CIRCUITS		No.	2	2	2	2	2	2	2	2	2
THEORETICAL REFRIGERANT CHARGE		kg	243	271	285	307	317	391	541	536	598
NOISE LEVELS											
TOTAL SOUND PRESSURE *7		dB(A)	72	73	73	73	73	73	73	74	74
TOTAL SOUND POWER LEVEL IN COOLING *8 *9		dB(A)	92	94	94	94	94	95	95	97	97
TOTAL SOUND POWER LEVEL IN HEATING *8 *10		dB(A)	93	95	95	95	95	96	96	98	98
SIZE AND WEIGHT *11											
WIDTH		mm	4900	5800	5800	5800	7000	7900	10000	11800	11800
DEPTH		mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT		mm	2580	2580	2580	2580	2580	2580	2580	2580	2580
OPERATION WEIGHT		kg	6672	7155	7307	7550	7791	8921	10101	11840	15158

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 space heating energy efficiency class [REGULATION (EU) N. 813/2013] - Average Weather Conditions. Calculation with variable waterflow and variable temperature.
5. Parameter calculated according to [REGULATION (EU) N. 2016/2281] - EN14825.
6. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to databook.
7. 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.
8. Sound power level on the basis of measurement taken in compliance with ISO 9614.
9. Sound power level in cooling, outdoors.
10. Sound power level in heating, outdoors.
11. Unit in standard configuration, without optional accessories.

Eurovent Certified Data

NX2-W-G06-H R454B Water-to-Water Heat Pump

(53 to 276kW)

Designed to accommodate a variety of applications, Climaveneta's **NX2-W-G06-H** is a compact and flexible water-to-water heat pump, which is reversible on the hydraulic side.

Key Features & Benefits

- Exceptional SEER and SCOP performance
- Rotary Scroll compressors with IDV technology
- Up to 60°C supply water temperature
- Advanced decentralised control options (MultiManager)
- Low GWP R454B refrigerant
- Inbuilt safety equipment for an A2L refrigerant
- Compatible with Variable Primary Flow (VPF)
- Compact design

R454B



CLIMAVENETA

MODEL			0042	0052	0062	0072	0082	0092	0112	0122	0142	0162	0182	0202	0222	0242
PERFORMANCE - HEATING ONLY																
GROSS VALUE*1																
TOTAL HEATING CAPACITY		kW	53.5	62.6	73.4	83.3	92.6	105.4	121.3	136.8	158.9	176.7	207.4	222.9	244.9	275.6
TOTAL POWER INPUT		kW	12.5	14.3	16.5	18.6	20.6	23.7	27.2	30.3	35.5	39.7	45.6	48.8	53.9	59.9
COP		kW/kW	4.28	4.38	4.45	4.48	4.50	4.45	4.46	4.52	4.48	4.45	4.55	4.57	4.54	4.60
EN14511 VALUES*1 *2																
TOTAL HEAT CAPACITY		kW	53.6	62.7	73.5	83.5	92.7	105.5	121.5	136.9	159.1	176.9	207.6	223.2	245.3	275.9
COP		kW/kW	4.04	4.12	4.23	4.25	4.32	4.28	4.29	4.35	4.31	4.28	4.35	4.39	4.34	4.36
SEASONAL PERFORMANCE - LOW TEMPERATURE*3																
RATED HEAT OUTPUT AT Tdesignh		kW	63	74	87	99	110	125	144	163	189	210	247	265	291	325
SCOP			6.29	6.51	6.74	6.71	6.87	6.89	6.83	6.83	6.83	6.78	6.81	6.81	7.13	6.61
PERFORMANCE ηs		%	243	254	262	261	267	268	265	265	265	263	264	264	277	256
SEASONAL PERFORMANCE - MEDIUM TEMPERATURE*4																
RATED HEAT OUTPUT AT Tdesignh			59	69	80	91	101	115	133	150	175	194	227	244	269	302
SCOP			4.48	4.64	4.76	4.78	4.97	4.93	4.93	4.93	4.94	4.86	4.89	4.97	5.14	4.84
PERFORMANCE ηs		%	171	178	182	183	191	189	189	189	190	186	188	191	197	186
PERFORMANCE - COOLING ONLY																
GROSS VALUE*5																
TOTAL COOLING CAPACITY		kW	45.84	53.92	64.85	73.47	82.96	94.45	108.5	122.6	142.0	157.2	184.6	200.2	217.8	242.1
TOTAL POWER INPUT		kW	10.04	11.34	13.18	14.94	16.13	18.48	21.38	23.89	27.78	31.48	36.25	38.67	42.78	48.13
EER		kW/kW	4.58	4.77	4.91	4.93	5.16	5.10	5.70	5.13	5.11	4.99	5.10	5.17	5.09	5.03
EN14511 VALUES*5 *2																
TOTAL COOLING CAPACITY		kW	45.7	53.8	64.7	73.3	82.8	94.3	108.3	122.4	141.7	156.9	184.3	199.8	217.4	241.7
EER		kW/kW	4.39	4.56	4.74	4.72	5.00	4.97	4.93	4.98	4.96	4.83	4.92	5.00	4.91	4.84
SEASONAL PERFORMANCE*6																
$P_{RATED,C}$		kW	45.7	53.8	64.7	73.3	82.8	94.3	108.3	122.4	141.7	156.9	184.3	199.8	217.4	241.7
SEER			6.31	6.63	7.01	7.04	7.18	7.41	6.97	7.09	7.2	7.02	7.22	7.17	7.13	6.80
PERFORMANCE ηs		%	250	262	278	279	284	293	276	281	285	278	286	284	282	269
ELECTRICAL DATA																
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
F.L.A.*7	Total	A	32	37	42	48	53	59	68	76	91	99	113	121	135	149
EXCHANGERS																
MINIMUM WATER FLOW	Evaporator	l/s	1.333	1.583	1.917	2.167	2.444	2.806	3.222	3.639	4.222	4.667	5.472	5.944	6.472	7.194
MINIMUM WATER CONTENT	User Side	l	180	240	313	350	339	472	466	574	712	712	929	921	940	926
MINIMUM WATER FLOW	Condensor	l/s	1.056	1.222	1.472	1.667	1.889	2.139	2.472	2.778	3.250	3.611	4.222	4.556	4.972	5.556
HEAT EXCHANGER IN HEATING*1																
WATER FLOW	User Side	l/s	2.584	3.022	3.542	4.021	4.471	5.087	5.857	6.602	7.671	8.529	10.01	10.76	11.82	13.3
PRESSURE DROP*2	User Side	kPa	25.3	25.2	29.0	34.4	15.3	15.2	15.7	16.3	17.0	20.7	21.4	22.7	23.5	29.6
WATER FLOW	Source Side	l/s	3.331	3.92	4.609	5.243	5.837	6.622	7.632	8.631	10	11.11	13.1	14.11	15.48	17.47
PRESSURE DROP*2	Source Side	kPa	84.1	91.1	55.8	55.3	54.3	54.2	59.4	60.1	61.2	62.0	71.2	63.4	75.7	94.6
HEAT EXCHANGER USER SIDE IN COOLING*5																
WATER FLOW	User Side	l/s	2.192	2.579	3.101	3.513	3.967	4.517	5.188	5.865	6.788	7.519	8.83	9.572	10.41	11.58
PRESSURE DROP*2	User Side	kPa	36.4	39.4	25.3	24.8	25.1	25.2	27.4	27.7	28.2	28.4	32.3	29.2	34.3	41.5
WATER FLOW	Source Side	l/s	2.66	3.107	3.716	4.21	4.721	5.38	6.186	6.981	8.086	8.988	10.52	11.38	12.41	13.82
PRESSURE DROP*2	Source Side	kPa	26.8	26.6	32.0	37.7	17.1	17.0	17.5	18.3	18.9	23.0	23.7	25.3	26.0	31.9
REFRIGERANT CIRCUIT																
COMPRESSORS		No.	2	2	2	2	2	2	2	2	2	2	2	2	2	2
CAPACITY STEPS		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
REGULATION			STEP	STEP	STEP	STEP	STEP	STEP	STEP	STEP	STEP	STEP	STEP	STEP	STEP	STEP
MINIMUM CAPACITY STEP		%	48	42	35	31	43	33	42	37	32	39	33	37	44	49
REFRIGERANT			R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B
REFRIGERANT CHARGE*8		kg	3.4	4.7	5.0	6.0	7.2	8.6	9.9	11.3	12.5	13.3	16.3	19.3	19.7	19.8
OIL CHARGE			6.0	6.3	6.3	6.9	6.9	9.4	9.7	9.7	9.7	12.2	12.2	12.2	12.2	12.2
RC (ASHRAE)*9		kg/kW	0.08	0.09	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.09	0.08
NOISE LEVELS																
TOTAL SOUND PRESSURE*10		dB(A)	57	58	59	61	61	63	63	63	69	70	70	70	72	72
TOTAL SOUND POWER LEVEL IN COOLING*11		dB(A)	73	74	75	77	77	80	80	80	86	87	87	87	89	89
TOTAL SOUND POWER LEVEL IN HEATING*11		dB(A)	74	75	76	78	78	81	81	81	87	88	88	88	90	90
SIZE AND WEIGHT*12																
WIDTH		mm	885	885	885	885	885	885	885	885	885	885	885	885	885	885
DEPTH		mm	1320	1320	1320	1320	1320	1640	1640	1640	1640	1640	1640	1640	1640	1640
HEIGHT		mm	1495	1495	1495	1495	1495	1805	1805	1805	1805	1805	1805	1805	1805	1805
OPERATING WEIGHT		kg	470	490	510	530	560	670	690	700	770	820	860	890	960	970

Notes:

1. User side exchanger hot water temperature (in/out) 40°C/45°C; Source side exchanger water temperature (in/out) 10°C / 7°C (or maximum calculated temperature coming from the maximum flow rate allowed).
2. Values in compliance with EN14511.
3. Seasonal space heating energy efficiency class Low Temperature [Regulation (EU) N. 813/2013]. Average Weather Conditions. Type of calculation with variable flow and variable temperature.
4. Seasonal space heating energy efficiency class Medium Temperature [Regulation (EU) N. 813/2013]. Average Weather Conditions. Type of calculation with variable flow and variable temperature.
5. Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger water (in/out) 30°C/35°C.
6. Parameter calculated according to [Regulation (EU) N. 2016/2281].
7. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to Databook.
8. Theoretical - refer to serial plate for actual charge volumes.
9. Rate in accordance with AHRI standard 550/590.
10. 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.
11. Sound power on the basis of measurement taken in compliance with ISO 9614.
12. Unit in standard configuration, without optional accessories.

Eurovent Certified Data

EW-HT-G05 R513A High Temperature Water-to-Water Heat Pump

(105 to 129kW)



CLIMAVENETA

The Climaveneta **EW-HT-G05** is perfect for applications requiring high temperature water of up to 78°C, a key feature for your decarbonisation project by complementing your air source heat pumps to create a cascade system, replacing fossil fuel heating systems.

Key Features & Benefits

- High temperature water (78°C) for replacing fossil fuel heating systems
- Low GWP Refrigerant R513A (GWP_{100} = 631)*
- Compact footprint of only 1m^2
- High temperature supply water of up to 78°C
- Advanced controls with W3000+ microprocessor
- Reliable and efficient with 2 independent refrigerant circuits
- Compatible with Master-Client controls, Keyboard In Pocket (KIP) interface and Building Energy Management System (BEMS) via interface cards
- Factory fitted options such as refrigerant leak detection, touch screen display, energy meter and additional soundproofing available

*IPCC AR4

R513A

MODEL			0262	0302
PERFORMANCE - HEATING ONLY				
GROSS VALUE[1]				
TOTAL HEATING CAPACITY		kW	105	129
TOTAL POWER INPUT		kW	28.6	34.3
COP		kW/kW	3.68	3.77
EN14511 VALUES[1 2]				
TOTAL HEAT CAPACITY		kW	105.2	129.3
COP		kW/kW	3.64	3.73
SEASONAL PERFORMANCE - MEDIUM TEMPERATURE[3 9]				
RATED HEAT OUTPUT AT Tdesignh		kW	60	74
SCOP			3.10	3.19
PERFORMANCE ηs[8]		%	116	120
ELECTRICAL DATA				
POWER SUPPLY		V/ph/Hz	400/3/50	400/3/50
F.L.A.[7]	Total	A	49	64
EXCHANGERS				
MINIMUM WATER CONTENT	User Side	l	390	480
MINIMUM WATER FLOW	Source Side	l/s	1.98	2.29
HEAT EXCHANGER IN HEATING[1]				
WATER FLOW	User Side	l/s	3.21	3.95
PRESSURE DROP[2]	User Side	kPa	14.20	15.80
WATER FLOW	Source Side	l/s	3.78	4.68
PRESSURE DROP[2]	Source Side	kPa	18.2	20.9
REFRIGERANT CIRCUIT				
COMPRESSORS		No.	2	2
NO. OF CAPACITY STEPS		No.	2	2
CIRCUITS		No.	2	2
REGULATION			STEPS	STEPS
MINIMUM CAPACITY STEP		%	50	50
REFRIGERANT			R513A	R513A
REFRIGERANT CHARGE		kg	10.50	10.90
OIL CHARGE			6.60	6.80
NOISE LEVELS				
TOTAL SOUND PRESSURE[4]		dB(A)	60	60
TOTAL SOUND POWER LEVEL IN HEATING[5 6]		dB(A)	76	76
SIZE AND WEIGHT[7]				
WIDTH		mm	1223	1223
DEPTH		mm	877	877
HEIGHT		mm	1496	1496
OPERATION WEIGHT		kg	415	430

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 dista nce, 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.

EW-HT R134a High Temperature Water-to-Water Heat Pump

(113 to 279kW)



CLIMAVENETA

The Climaveneta **EW-HT** is perfect for applications requiring high temperature water of up to 78°C, a key feature for your decarbonisation project by complementing your air source heat pumps to create a cascade system, replacing fossil fuel heating systems.

Key Features & Benefits

- High temperature water (78°C) for replacing fossil fuel heating systems
- Compact footprint of only 1m²
- High temperature supply water of up to 78°C
- Advanced controls with W3000+ microprocessor
- Reliable and efficient with 2 independent refrigerant circuits
- Compatible with Master-Client controls, Keyboard In Pocket (KIP) interface and Building Energy Management System (BEMS) via interface cards
- Factory fitted options such as refrigerant leak detection, touch screen display, energy meter and additional soundproofing available

R134a

MODEL			0262	0302	0412	0512	0612
PERFORMANCE - HEATING ONLY							
GROSS VALUE[1]							
TOTAL HEATING CAPACITY		kW	113	139	181	225	279
TOTAL POWER INPUT		kW	27.9	34.2	43.7	55.1	67.6
COP		kW/kW	4.05	4.08	4.14	4.08	4.13
EN14511 VALUES[1 2]							
TOTAL HEAT CAPACITY		kW	113	140	181	225	280
COP		kW/kW	3.94	3.98	4.04	4.01	4.06
SEASONAL PERFORMANCE - MEDIUM TEMPERATURE[3 9]							
RATED HEAT OUTPUT AT Tdesignh		kW	61.6	78.1	104	128	157
SCOP			3.30	3.30	3.25	3.27	3.3
PERFORMANCE ηs[8]		%	124	124	122	123	124
ELECTRICAL DATA							
POWER SUPPLY		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
F.L.A.[7]	Total	A	49	64	79	99	125
EXCHANGERS							
MINIMUM WATER CONTENT	User Side	l	410	530	680	850	1050
MINIMUM WATER FLOW	Source Side	l/s	1.50	2.03	2.69	3.31	4.08
HEAT EXCHANGER IN HEATING[1]							
WATER FLOW	User Side	l/s	3.45	4.26	5.52	6.87	8.54
PRESSURE DROP[2]	User Side	kPa	24.2	19.7	19.8	19.8	20.1
WATER FLOW	Source Side	l/s	4.19	5.18	6.74	8.35	10.41
PRESSURE DROP[2]	Source Side	kPa	53.8	49.7	50.1	37.6	37.7
REFRIGERANT CIRCUIT							
COMPRESSORS		No.	2	2	2	2	2
NO. OF CAPACITY STEPS		No.	2	2	2	2	2
CIRCUITS		No.	2	2	2	2	2
REGULATION			STEPS	STEPS	STEPS	STEPS	STEPS
MINIMUM CAPACITY STEP		%	50	50	50	50	50
REFRIGERANT			R134a	R134a	R134a	R134a	R134a
REFRIGERANT CHARGE		kg	9.10	9.90	11.0	13.2	14.3
OIL CHARGE			6.80	6.80	9.40	13.6	12.6
NOISE LEVELS							
TOTAL SOUND PRESSURE[4]		dB(A)	60	60	62	62	64
TOTAL SOUND POWER LEVEL IN HEATING[5 6]		dB(A)	76	76	78	78	80
SIZE AND WEIGHT[7]							
WIDTH		mm	1223	1223	1223	1223	1223
DEPTH		mm	877	877	877	877	877
HEIGHT		mm	1496	1496	1496	1496	1496
OPERATION WEIGHT		kg	415	430	610	675	740

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 dista nce, 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.

TX2-W-G04 /H R1234ze Water-to-Water Heat Pump

(298 to 2,510kW)

The Climaveneta **TX2-W-G04 /H** is a high performance water source reversible (on the hydraulic side) heat pump optimised for comfort heating and cooling. It uses state of the art oil free centrifugal compressors and low GWP refrigerant R1234ze, ensuring high efficiency and silent operation.

Key Features & Benefits

- Exceptional efficiency in a compact footprint
- Silent operation achieved using state of the art oil free centrifugal compressors optimised for R1234ze
- High quality shell and tube heat exchangers
- Low GWP refrigerant (GWP_{100} = 1)*
- Large variety of sizes to suit a wide variety of applications
- Flexible composition with water connections to the evaporator and condenser that can be deplyed on the right or left, to fit any application

*IPCC AR5



R1234ze

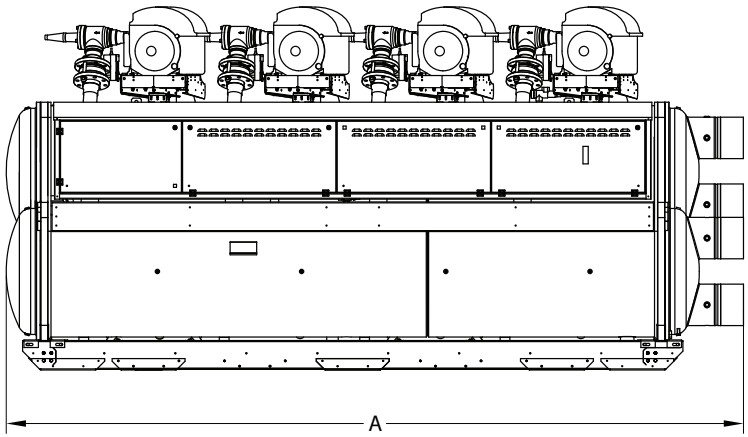
MODEL			0251	0351	0551	0602	0702	0872	1022	1203	1314	1363	1404	1553	1584	1914	2064
PERFORMANCE - HEATING ONLY (GROSS VALUE) *2 *4																	
TOTAL HEATING CAPACITY		kW	297.9	406.7	643.6	731.1	828.8	1034	1269	1398	1576	1650	1691	1905	1869	2342	2510
TOTAL POWER INPUT		kW	59.3	84.3	137.4	144.7	169.7	220.6	272.4	299.6	309.8	357.0	334.5	391.4	383.2	474.7	523.2
COP		kW/kW	5.02	4.82	4.68	5.05	4.88	4.69	4.66	4.67	5.09	4.62	5.06	4.87	4.88	4.93	4.80
PERFORMANCE - HEATING ONLY *2 *3 *5																	
TOTAL HEAT CAPACITY		kW	263.6	366.2	546.0	642.2	743.4	907.5	1091	1245	1394	1448	1494	1623	1639	2009	2146
COP		kW/kW	5.04	4.93	5.30	5.14	4.98	5.12	5.24	5.01	5.21	5.09	5.21	5.41	5.20	5.38	5.37
PERFORMANCE - COOLING ONLY *1 *3 *5																	
TOTAL COOLING CAPACITY		kW	209.3	299.8	425.2	511.6	601.6	725.4	850.5	1016	1108	1146	1197	1264	1319	1571	1681
EER		kW/kW	5.67	5.78	6.04	5.87	5.79	5.88	5.98	5.75	6.07	5.83	6.13	6.20	6.08	6.19	6.16
SEASONAL PERFORMANCE - AMBIENT REFRIGERATION *6																	
Prated,C		kW	209.3	299.8	425.2	511.6	601.6	725.4	850.5	1016	1108	1146	1197	1264	1319	1571	1681
SEER			8.99	9.15	9.77	9.36	9.25	9.53	10.02	9.33	9.50	9.31	9.65	10.16	9.54	9.83	10.13
ELECTRICAL DATA																	
POWER SUPPLY		V/ph/Hz	400/3/50	400/3/500	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
F.L.A.*7	Total	A	117	165	231	282	330	396	462	561	612	627	660	693	726	858	924
EXCHANGERS																	
MINIMUM WATER FLOW IN COOLING *1	Evaporator	l/s	17.61	17.61	40.28	45.83	40.28	50.00	72.22	61.94	85.28	87.78	85.28	108.3	85.28	134.2	134.2
MINIMUM WATER FLOW IN HEATING *2	Condenser	l/s	8.61	11.67	18.61	21.11	21.11	28.61	35.28	38.06	44.44	41.39	48.06	50.83	48.06	59.72	69.17
HEAT EXCHANGER IN HEATING *2																	
PRESSURE DROP AT HEAT EXCHANGER	User Side	kPa	28.50	29.70	25.20	28.00	37.50	30.80	29.80	26.20	29.30	29.70	29.00	31.00	34.90	34.10	29.20
WATER FLOW	User Side	l/s	12.71	17.66	26.34	30.98	35.86	43.78	52.62	60.07	67.26	69.88	72.08	78.33	79.09	96.95	103.6
PRESSURE DROP AT HEAT EXCHANGER	Source Side	kPa	77.40	80.40	64.90	68.10	80.70	82.60	80.70	67.10	82.90	66.90	82.90	81.50	82.90	83.10	84.00
WATER FLOW	Source Side	l/s	17.28	17.61	36.11	42.21	40.28	50.00	72.03	61.94	85.28	87.78	85.28	107.9	85.28	133.4	134.2
HEAT EXCHANGER IN COOLING *1																	
PRESSURE DROP AT HEAT EXCHANGER	User Side	kPa	26.10	53.40	20.60	22.90	41.30	39.80	25.80	41.30	32.00	26.10	37.40	25.60	45.40	26.40	30.20
WATER FLOW	User Side	l/s	10.03	14.36	20.35	24.48	28.79	34.72	40.70	48.61	53.01	54.82	57.29	60.49	63.11	75.18	80.42
PRESSURE DROP AT HEAT EXCHANGER	Source Side	kPa	24.10	26.50	20.20	23.60	32.70	26.10	24.00	23.30	24.40	24.80	24.40	24.70	29.70	27.40	23.50
WATER FLOW	Source Side	l/s	11.70	16.69	23.58	28.47	33.50	40.32	47.21	56.67	61.36	63.83	66.22	69.85	72.96	86.83	92.94
REFRIGERANT CIRCUIT																	
COMPRESSORS		No.	1	1	1	2	2	2	2	3	4	3	4	3	4	4	4
CIRCUITS		No.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
REFRIGERANT CHARGE *8		kg	140	190	240	270	270	415	420	624	730	615	1000	850	1000	1070	1070
NOISE LEVELS																	
TOTAL SOUND PRESSURE *9		dB(A)	75	76	78	76	77	78	79	79	78	80	78	79	79	80	80
TOTAL SOUND POWER LEVEL IN COOLING *1 *5 *10		dB(A)	93	94	96	95	96	97	98	98	98	99	98	99	99	100	100
TOTAL SOUND POWER LEVEL IN HEATING *2 *5 *10		dB(A)	93	94	96	95	96	97	98	98	98	99	98	99	99	100	100
SIZE AND WEIGHT *11																	
WIDTH		mm	2910	2910	2910	2910	2910	3050	3050	3710	4690	3710	4720	4690	4720	4720	4720
DEPTH		mm	1000	1000	1000	1560	1560	1620	1620	1710	1890	1710	1890	1660	1890	1890	1890
HEIGHT		mm	1950	1950	1950	2190	2190	2190	2190	2260	2400	2260	2400	2260	2400	2400	2400
OPERATION WEIGHT		kg	2280	2430	2630	3780	3010	4880	4910	7060	8520	7040	9760	7950	9760	10130	10340

Notes:

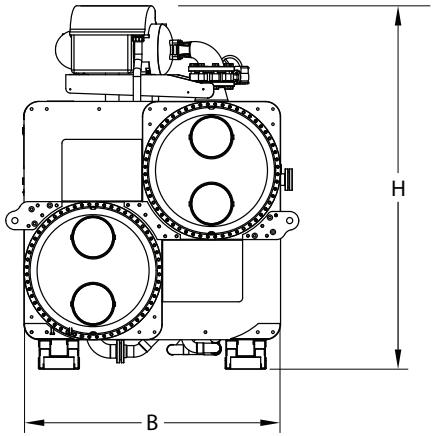
1. Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger water (in/out) 30.00°C/35.00°C.
2. Plant (side) exchanger hot water temperature (in/out) 40.00°C/45.00°C; Source (side) exchanger water temperature(in/out) 10.00°C/6.71°C (or the maximum calculated temperature coming from the maximum flow rate allowed).
3. Values in compliance with EN14511.
4. Unit performance with inverter compressor at maximum speeds.
5. Unit performance with inverter compressor at nominal speed.
6. Parameter calculated according to [Regulation (EU) N. 2016/2281].
7. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to databook.
8. Theoretical - refer to serial plate for actual charge volumes.
9. 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.
10. Sound power level in cooling, indoors, on the basis of measurement taken in compliance with ISO 9614.
11. Unit in standard configuration, without optional accessories.

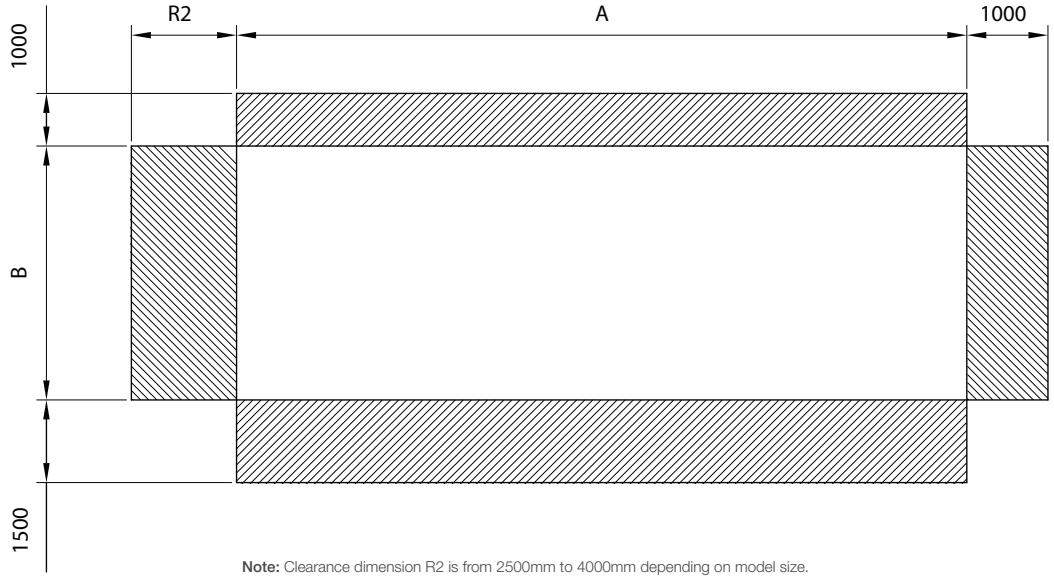
Eurovent Certified Data

Front View



Side View





Note: Clearance dimension R2 is from 2500mm to 4000mm depending on model size.

Our INTEGRA Simultaneous Heating & Cooling Range - An Overview

INTEGRA polyvalent heat pumps units, commonly known as 4-pipe systems, offer an innovative and efficient solution for customers requiring both heating and cooling at the same time.

Their ability to recover heat from the cooling circuit gives them exceptional versatility, combined with high energy efficiency and makes them an ideal choice for a wide range of buildings, such as large offices, hotels and hospitals alongside other premises with variable temperature control needs. The systems can be customised to adapt to the specific demands of each environment.

TER Value

In all cases where INTEGRA simultaneously produces hot and cold water, the real efficiency of the unit must be considered as the sum of heating and cooling. Measuring efficiency through traditional EER and COP indices is therefore limiting.

To objectively measure the performance in contemporary loads conditions, we calculate TER - Total Efficiency Ratio. TER is calculated as the ratio of the sum of the heating and cooling power and electrical power input. TER reaches its maximum value when the loads are completely balanced and is the most effective way to represent the real efficiency of the unit.









INTEGRA

CLIMAVENETA



Our INTEGRA range at a glance

INTEGRA polyvalent heat pumps units, commonly known as 4-pipe systems, offer an innovative and efficient solution for customers requiring both heating and cooling at the same time.

Climaveneta

Commercial polyvalent heat pumps that use a range of low GWP refrigerants, alongside the latest inverter scroll and screw compressors.





i-NX-Q
R410A Air Source Polyvalent Unit
(74 to 165kW)

Mitsubishi Electric's **i-NX-Q** is our range of air source simultaneous heating and cooling (polyvalent / 4-pipe) using Variable Speed Drive (VSD) scroll compressors as standard.

Key Features & Benefits

- Best-in-class seasonal efficiency in a compact footprint
- High efficiency inverter scroll compressors providing a dual refrigeration circuit
- Wide range of options available including: inbuilt hydronic pumps, dual pressure relief valves, BEMS interface cards, EC Fans and many more
- Copper/Aluminium auxiliary heat exchanger with other protection coating options available

R410A



MODEL			0252P	0262P	0302P	0352P	0402P	0502P	0552P
COOLING WITH HEAT RECOVERY*1 *2 *3									
COOLING CAPACITY		kW	68.63	79.78	89.07	101.9	116.3	134.7	154.3
RECOVERY HEAT EXCHANGER CAPACITY		kW	89.70	103.6	116.8	131.1	151.2	175.6	200.4
TOTAL POWER INPUT		kW	22.64	25.54	29.85	31.46	37.66	44.18	49.98
TER		kW/kW	6.992	7.178	6.898	7.406	7.102	7.024	7.096
PERFORMANCE - HEATING ONLY*4 *2									
TOTAL HEAT CAPACITY		kW	74.10	85.70	95.50	108.30	122.9	143.6	165.2
COP		kW/kW	3.12	3.29	3.22	3.35	3.28	3.30	3.29
PERFORMANCE - COOLING ONLY*1 *2									
TOTAL COOLING CAPACITY		kW	67.5	79.0	87.8	100.7	114.0	132.9	151.7
EER		kW/kW	2.78	2.93	2.74	3.07	2.86	2.92	2.95
SEASONAL PERFORMANCE*5									
RATED HEAT OUTPUT AT Tdesignh		kW	53.0	64.0	71.0	81.0	91.0	107.0	123.0
SCOP			3.97	3.94	3.96	4.08	4.11	4.12	4.16
ELECTRICAL DATA									
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
MAX F.L.A*6	Total	A	76	75	75	109	109	111	113
EXCHANGERS									
MINIMUM WATER FLOW IN COOLING*4	Evaporator	l/s	1.583	1.861	2.083	2.389	2.722	3.167	3.639
MINIMUM WATER FLOW IN HEATING*1	Condenser	l/s	1.944	2.250	2.528	2.611	3.056	3.528	4.056
REFRIGERANT CIRCUIT									
COMPRESSORS		No.	2	2	2	2	2	2	2
CIRCUITS		No.	2	2	2	2	2	2	2
REFRIGERANT CHARGE*7		kg	22.6	30.6	30.8	38.4	38.8	53.2	60.0
NOISE LEVELS									
TOTAL SOUND PRESSURE*8		dB(A)	55	55	56	56	57	59	61
TOTAL SOUND POWER LEVEL IN COOLING*9		dB(A)	87	87	88	88	89	91	93
TOTAL SOUND POWER LEVEL IN HEATING*10		dB(A)	87	87	88	88	89	91	93
SIZE AND WEIGHT*11									
WIDTH		mm	2625	2625	2625	3250	3250	3875	4500
DEPTH		mm	1350	1350	1350	1350	1350	1350	1350
HEIGHT		mm	2070	2070	2070	2070	2070	2070	2070
OPERATION WEIGHT		kg	930	1050	1050	1290	1300	1480	1630

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. Plant (side) heat exchanger water (in/out) 12°C/7°C; Plant (side) heat exchanger water (in/out) 40°C / 45°C.
4. Plant (side) exchanger hot water temperature (in/out) 40°C/45°C; Source (side) heat exchanger air (in) 7°C - 87% R.H.
5. Seasonal space heating energy efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013] - Average Weather Conditions.
6. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to databook.
7. Theoretical - refer to serial plate for actual charge volumes.
8. 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.
9. Sound power level in cooling, outdoors, on the basis of measurement taken in compliance with ISO 9614.
10. Sound power level in heating, outdoors.
11. Unit in standard configuration, without optional accessories.

Eurovent Certified Data

i-NX-Q R410A Air Source Polyvalent Unit

(70 to 153kW)

Super-Low Noise Version (/SL)

Mitsubishi Electric's **i-NX-Q** is our range of air source simultaneous heating and cooling (polyvalent / 4-pipe) using Variable Speed Drive (VSD) scroll compressors as standard.

Key Features & Benefits

- Best-in-class seasonal efficiency in a compact footprint
- High efficiency inverter scroll compressors providing a dual refrigeration circuit
- Wide range of options available including: inbuilt hydronic pumps, dual pressure relief valves, BEMS interface cards, EC Fans and many more
- Copper/Aluminium auxiliary heat exchanger with other protection coating options available

R410A



MODEL			0252P	0262P	0302P	0352P	0402P	0502P	0552P
COOLING WITH HEAT RECOVERY*1 *2 *3									
COOLING CAPACITY		kW	65.09	75.01	84.46	94.47	109.2	126.20	145.2
RECOVERY HEAT EXCHANGER CAPACITY		kW	84.59	96.84	110.2	120.9	141.2	164.0	188.1
TOTAL POWER INPUT		kW	20.92	23.40	27.71	28.37	34.43	40.58	46.15
TER		kW/kW	7.154	7.343	7.026	7.591	7.272	7.151	7.222
PERFORMANCE - HEATING ONLY*4 *2									
TOTAL HEAT CAPACITY		kW	70.70	78.50	93.10	98.10	114.2	132.4	153.2
COP		kW/kW	3.29	3.38	3.37	3.45	3.35	3.36	3.38
PERFORMANCE - COOLING ONLY*1 *2									
TOTAL COOLING CAPACITY		kW	62.9	70.9	84.0	89.5	105.0	119.9	138.4
EER		kW/kW	2.77	2.73	2.87	2.90	2.81	2.72	2.78
SEASONAL PERFORMANCE*5									
RATED HEAT OUTPUT AT Tdesignh		kW	52.0	59.0	70.0	74.0	79.0	97.0	115.0
SCOP			4.00	3.97	4.04	4.09	4.01	4.11	4.13
ELECTRICAL DATA									
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
MAX F.L.A*6	Total	A	76	75	77	109	111	111	113
EXCHANGERS									
MINIMUM WATER FLOW IN COOLING*4	Evaporator	l/s	1.583	1.861	2.083	2.389	2.722	3.167	3.639
MINIMUM WATER FLOW IN HEATING*1	Condenser	l/s	1.944	2.250	2.528	2.611	3.056	3.528	4.056
REFRIGERANT CIRCUIT									
COMPRESSORS		No.	2	2	2	2	2	2	2
CIRCUITS		No.	2	2	2	2	2	2	2
REFRIGERANT CHARGE*7		kg	29.2	31.2	43.8	40.6	45.8	53.4	60.0
NOISE LEVELS									
TOTAL SOUND PRESSURE*8		dB(A)	49	49	50	50	51	53	55
TOTAL SOUND POWER LEVEL IN COOLING*9		dB(A)	81	81	82	82	83	85	87
TOTAL SOUND POWER LEVEL IN HEATING*10		dB(A)	81	81	82	82	83	85	87
SIZE AND WEIGHT*11									
WIDTH		mm	2625	2625	3250	3250	3250	3875	4500
DEPTH		mm	1350	1350	1350	1350	1350	1350	1350
HEIGHT		mm	2070	2070	2070	2070	2070	2070	2070
OPERATION WEIGHT		kg	990	1080	1210	1330	1440	1520	1660

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. Plant (side) heat exchanger water (in/out) 12°C/7°C; Plant (side) heat exchanger water (in/out) 40°C / 45°C.
4. Plant (side) exchanger hot water temperature (in/out) 40°C/45°C; Source (side) heat exchanger air (in) 7°C - 87% R.H.
5. Seasonal space heating energy efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013] - Average Weather Conditions.
6. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to databook.
7. Theoretical - refer to serial plate for actual charge volumes.
8. 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.
9. Sound power level in cooling, outdoors, on the basis of measurement taken in compliance with ISO 9614.
10. Sound power level in heating, outdoors.
11. Unit in standard configuration, without optional accessories.

Eurovent Certified Data

NX-Q-G06 R454B 2 Compressor Air Source Polyvalent Unit

(72 to 170kW)

Mitsubishi Electric's **NX-Q-G06** is our range of air source simultaneous heating and cooling (polyvalent / 4-pipe) using two high efficiency scroll compressors as standard.

Key Features & Benefits

- Low GWP refrigerant R454B provides an environmentally friendly solution
- Exceptional seasonal efficiency in a compact footprint
- High efficiency scroll compressors providing a dual refrigeration circuit
- Wide range of options available including: inbuilt hydronic pumps, dual pressure relief valves, BEMS interface cards, EC Fans and many more
- Copper/Aluminium auxiliary heat exchanger with other protection coating options available

R454B



INTEGRA

CLIMAVENETA

MODEL			0262P	0302P	0402P	0502P	0602P
COOLING WITH HEAT RECOVERY*1 *2 *3							
COOLING CAPACITY		kW	70.0	83.3	107.3	133.9	169.3
RECOVERY HEAT EXCHANGER CAPACITY		kW	87.5	103.9	134.1	168.7	213.9
TOTAL POWER INPUT		kW	18.64	22.07	28.72	37.33	47.98
TER		kW/kW	8.456	8.483	8.404	8.108	7.987
PERFORMANCE - HEATING ONLY*4 *2							
TOTAL HEAT CAPACITY		kW	72.3	86.6	110.8	139.3	170.6
COP		kW/kW	3.59	3.61	3.60	3.58	3.48
PERFORMANCE - COOLING ONLY*1 *2							
TOTAL COOLING CAPACITY		kW	68.6	82.0	106.1	132.1	161.5
EER		kW/kW	3.29	3.41	3.38	3.32	3.04
SEASONAL PERFORMANCE*5							
Prated,C		kW	68.6	82.0	106.1	132.1	161.5
SEER			3.99	4.11	4.09	4.02	3.70
ELECTRICAL DATA							
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
MAX F.L.A*6	Total	A	48	59	79	98	123
EXCHANGERS							
MINIMUM WATER FLOW IN COOLING*4	Evaporator	l/s	2.000	2.361	3.056	3.889	4.778
MINIMUM WATER FLOW IN HEATING*1	Condenser	l/s	2.000	2.361	3.056	3.889	4.778
REFRIGERANT CIRCUIT							
COMPRESSORS		No.	2	2	2	2	2
CIRCUITS		No.	2	2	2	2	2
REFRIGERANT CHARGE*7		kg	27.8	33.4	48.2	54.4	54.9
NOISE LEVELS							
TOTAL SOUND PRESSURE*8		dB(A)	53	54	55	56	56
TOTAL SOUND POWER LEVEL IN COOLING*9		dB(A)	85	86	87	88	88
TOTAL SOUND POWER LEVEL IN HEATING*10		dB(A)	85	86	87	88	88
SIZE AND WEIGHT*11							
WIDTH		mm	2625	3250	3875	4500	4500
DEPTH		mm	1350	1350	1350	1350	1350
HEIGHT		mm	2070	2070	2070	2070	2070
OPERATION WEIGHT		kg	1000	1130	1310	1620	1650

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. Plant (side) heat exchanger water (in/out) 12°C/7°C; Plant (side) heat exchanger water (in/out) 40°C / 45°C.
4. Plant (side) exchanger hot water temperature (in/out) 40°C/45°C; Source (side) heat exchanger air (in) 7°C - 87% R.H.
5. Parameter calculated according to [Regulation (EU) N. 2016/2281.
6. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to databook.
7. Theoretical - refer to serial plate for actual charge volumes. b
8. 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.
9. Sound power level in cooling, outdoors, on the basis of measurement taken in compliance with ISO 9614.
10. Sound power level in heating, outdoors.
11. Unit in standard configuration, without optional accessories.

Eurovent Certified Data

NX-Q-G06 R454B 2 Compressor Air Source Polyvalent Unit

(73 to 135kW)

Super-Low Noise Version (/SL)

Mitsubishi Electric's **NX-Q-G06** is our range of air source simultaneous heating and cooling (polyvalent / 4-pipe) using two high efficiency scroll compressors as standard.

Key Features & Benefits

- Low GWP refrigerant R454B provides an environmentally friendly solution
- Exceptional seasonal efficiency in a compact footprint
- High efficiency scroll compressors providing a dual refrigeration circuit
- Wide range of options available including: inbuilt hydronic pumps, dual pressure relief valves, BEMS interface cards, EC Fans and many more
- Copper/Aluminium auxiliary heat exchanger with other protection coating options available

R454B



MODEL			0262P	0302P	0402P	0502P
COOLING WITH HEAT RECOVERY*1 *2 *3						
COOLING CAPACITY		kW	70.0	83.3	107.3	134.0
RECOVERY HEAT EXCHANGER CAPACITY		kW	87.5	103.9	134.1	168.7
TOTAL POWER INPUT		kW	18.65	22.07	28.72	37.22
TER		kW/kW	8.448	8.482	8.403	8.135
PERFORMANCE - HEATING ONLY*4 *2						
TOTAL HEAT CAPACITY		kW	73.8	87.6	111.8	135.8
COP		kW/kW	3.70	3.69	3.68	3.61
PERFORMANCE - COOLING ONLY*1 *2						
TOTAL COOLING CAPACITY		kW	68.6	81.3	104.0	125.3
EER		kW/kW	3.32	3.40	3.32	3.02
SEASONAL PERFORMANCE*5						
Prated,C		kW	68.6	81.3	104.0	125.3
SEER			4.04	4.11	4.02	3.70
ELECTRICAL DATA						
POWER SUPPLY		V/ph/Hz	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50
MAX F.L.A*6	Total	A	50	61	82	98
EXCHANGERS						
MINIMUM WATER FLOW IN COOLING*4	Evaporator	l/s	2.000	2.389	3.056	3.889
MINIMUM WATER FLOW IN HEATING*1	Condenser	l/s	2.000	2.389	3.056	3.889
REFRIGERANT CIRCUIT						
COMPRESSORS		No.	2	2	2	2
CIRCUITS		No.	2	2	2	2
REFRIGERANT CHARGE*7		kg	37.8	44.0	49.7	53.5
NOISE LEVELS						
TOTAL SOUND PRESSURE*8		dB(A)	48	49	50	52
TOTAL SOUND POWER LEVEL IN COOLING*9		dB(A)	80	81	82	84
TOTAL SOUND POWER LEVEL IN HEATING*10		dB(A)	80	81	82	84
SIZE AND WEIGHT*11						
WIDTH		mm	3250	3875	4500	4500
DEPTH		mm	1350	1350	1350	1350
HEIGHT		mm	2070	2070	2070	2070
OPERATION WEIGHT		kg	1120	1270	1490	1630

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. Plant (side) heat exchanger water (in/out) 12°C/7°C; Plant (side) heat exchanger water (in/out) 40°C / 45°C.
4. Plant (side) exchanger hot water temperature (in/out) 40°C/45°C; Source (side) heat exchanger air (in) 7°C - 87% R.H.
5. Parameter calculated according to [Regulation (EU) N. 2016/2281.
6. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to databook.
7. Theoretical - refer to serial plate for actual charge volumes. b
8. 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.
9. Sound power level in cooling, outdoors, on the basis of measurement taken in compliance with ISO 9614.
10. Sound power level in heating, outdoors.
11. Unit in standard configuration, without optional accessories.

Eurovent Certified Data

NX-Q-G06 R454B 4 Compressor Air Source Polyvalent Unit

(157 to 323kW)

Mitsubishi Electric's **NX-Q-G06** is our range of air source simultaneous heating and cooling (polyvalent / 4-pipe) using four high efficiency scroll compressors as standard.

Key Features & Benefits

- Low GWP refrigerant R454B provides an environmentally friendly solution
- Exceptional seasonal efficiency in a compact footprint
- High efficiency scroll compressors providing a dual refrigeration circuit
- Wide range of options available including: inbuilt hydronic pumps, dual pressure relief valves, BEMS interface cards, EC Fans and many more
- Copper/Aluminium auxiliary heat exchanger with other protection coating options available

R454B



INTEGRA

CLIMAVENETA

MODEL			0604	0704	0804	0904	1004	1104	1204
COOLING WITH HEAT RECOVERY*1 *2 *3									
COOLING CAPACITY		kW	144.6	165.6	186.1	210.9	235.9	269.0	303.7
RECOVERY HEAT EXCHANGER CAPACITY		kW	188.8	216.0	243.1	274.6	306.3	350.8	395.0
TOTAL POWER INPUT		kW	47.72	54.57	61.63	68.87	76.32	88.71	99.91
TER		kW/kW	6.987	6.993	6.963	7.049	7.105	6.987	7.003
PERFORMANCE - HEATING ONLY*4 *2									
TOTAL HEAT CAPACITY		kW	157.5	174.6	197.1	220.5	250.9	288.4	323.7
COP		kW/kW	2.92	2.90	2.94	2.98	2.94	2.99	3.00
PERFORMANCE - COOLING ONLY*1 *2									
TOTAL COOLING CAPACITY		kW	143.5	159.3	180.9	202.3	230.1	265.6	298.0
EER		kW/kW	2.58	2.45	2.53	2.52	2.55	2.62	2.63
SEASONAL PERFORMANCE*5									
Prated,C		kW	143.5	159.3	180.9	202.3	230.1	265.6	298.0
SEER			3.52	3.52	3.67	3.75	3.59	3.75	3.83
ELECTRICAL DATA									
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
MAX F.L.A*6	Total	A	115	133	152	169	193	218	243
EXCHANGERS									
MINIMUM WATER FLOW IN COOLING*4	Evaporator	l/s	4.444	4.917	5.611	6.278	7.139	8.250	9.250
MINIMUM WATER FLOW IN HEATING*1	Condenser	l/s	4.444	4.917	5.611	6.278	7.139	8.250	9.250
REFRIGERANT CIRCUIT									
COMPRESSORS		No.	4	4	4	4	4	4	4
CIRCUITS		No.	2	2	2	2	2	2	2
REFRIGERANT CHARGE*7		kg	38.3	38.4	54.2	57.3	60.5	72.5	97.2
NOISE LEVELS									
TOTAL SOUND PRESSURE*8		dB(A)	60	60	60	61	62	63	63
TOTAL SOUND POWER LEVEL IN COOLING*9		dB(A)	92	92	92	93	94	95	95
TOTAL SOUND POWER LEVEL IN HEATING*10		dB(A)	92	92	92	93	94	95	95
SIZE AND WEIGHT*11									
WIDTH		mm	3110	3110	3110	4110	4110	4110	4110
DEPTH		mm	2220	2220	2220	2220	2220	2220	2220
HEIGHT		mm	2150	2150	2150	2150	2150	2150	2150
OPERATION WEIGHT		kg	1660	1730	1850	2130	2370	2540	2680

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. Plant (side) heat exchanger water (in/out) 12°C/7°C; Plant (side) heat exchanger water (in/out) 40°C / 45°C.
4. Plant (side) exchanger hot water temperature (in/out) 40°C/45°C; Source (side) heat exchanger air (in) 7°C - 87% R.H.
5. Parameter calculated according to [Regulation (EU) N. 2016/2281.
6. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to databook.
7. Theoretical - refer to serial plate for actual charge volumes.
8. 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.
9. Sound power level in cooling, outdoors, on the basis of measurement taken in compliance with ISO 9614.
10. Sound power level in heating, outdoors.
11. Unit in standard configuration, without optional accessories.

Eurovent Certified Data

NX-Q-G06 R454B 4 Compressor Air Source Polyvalent Unit

(150 to 304kW)

Low Noise Version (/LN)

Mitsubishi Electric's **NX-Q-G06** is our range of air source simultaneous heating and cooling (polyvalent / 4-pipe) using four high efficiency scroll compressors as standard.

Key Features & Benefits

- Low GWP refrigerant R454B provides an environmentally friendly solution
- Exceptional seasonal efficiency in a compact footprint
- High efficiency scroll compressors providing a dual refrigeration circuit
- Wide range of options available including: inbuilt hydronic pumps, dual pressure relief valves, BEMS interface cards, EC Fans and many more
- Copper/Aluminium auxiliary heat exchanger with other protection coating options available

R454B



INTEGRA

CLIMAVENETA

MODEL			0604	0704	0804	0904	1004	1104	1204
COOLING WITH HEAT RECOVERY*1 *2 *3									
COOLING CAPACITY		kW	144.8	165.7	186.3	211.1	236.1	269.3	304.1
RECOVERY HEAT EXCHANGER CAPACITY		kW	188.8	216.1	243.2	274.6	306.4	351.0	396.1
TOTAL POWER INPUT		kW	47.50	54.31	61.35	68.60	75.96	88.27	99.33
TER		kW/kW	7.023	7.031	7.000	7.080	7.143	7.027	7.050
PERFORMANCE - HEATING ONLY*4 *2									
TOTAL HEAT CAPACITY		kW	150.2	165.8	186.4	212.2	238.7	273.2	304.9
COP		kW/kW	2.98	2.94	2.96	3.02	2.99	3.00	2.98
PERFORMANCE - COOLING ONLY*1 *2									
TOTAL COOLING CAPACITY		kW	137.0	150.5	169.7	190.8	217.9	249.9	278.8
EER		kW/kW	2.47	2.27	2.30	2.31	2.39	2.40	2.36
SEASONAL PERFORMANCE*5									
Prated,C		kW	137.0	150.5	169.7	190.8	217.9	249.9	278.8
SEER			3.59	3.56	3.57	3.70	3.60	3.75	3.72
ELECTRICAL DATA									
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
MAX F.L.A*6	Total	A	115	133	152	169	193	218	243
EXCHANGERS									
MINIMUM WATER FLOW IN COOLING*4	Evaporator	l/s	4.444	4.917	5.611	6.278	7.139	8.250	9.250
MINIMUM WATER FLOW IN HEATING*1	Condenser	l/s	4.444	4.917	5.611	6.278	7.139	8.250	9.250
REFRIGERANT CIRCUIT									
COMPRESSORS		No.	4	4	4	4	4	4	4
CIRCUITS		No.	2	2	2	2	2	2	2
REFRIGERANT CHARGE*7		kg	38	38	54	57	61	73	97
NOISE LEVELS									
TOTAL SOUND PRESSURE*8		dB(A)	54	54	54	55	56	57	57
TOTAL SOUND POWER LEVEL IN COOLING*9		dB(A)	86	86	86	87	88	89	89
TOTAL SOUND POWER LEVEL IN HEATING*10		dB(A)	87	87	87	88	89	90	90
SIZE AND WEIGHT*11									
WIDTH		mm	3110	3110	3110	4110	4110	4110	4110
DEPTH		mm	2220	2220	2220	2220	2220	2220	2220
HEIGHT		mm	2150	2150	2150	2150	2150	2150	2150
OPERATION WEIGHT		kg	1660	1730	1850	2130	2370	2540	2680

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. Plant (side) heat exchanger water (in/out) 12°C/7°C; Plant (side) heat exchanger water (in/out) 40°C / 45°C.
4. Plant (side) exchanger hot water temperature (in/out) 40°C/45°C; Source (side) heat exchanger air (in) 7°C - 87% R.H.
5. Parameter calculated according to [Regulation (EU) N. 2016/2281.
6. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to databook.
7. Theoretical - refer to serial plate for actual charge volumes.
8. 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.
9. Sound power level in cooling, outdoors, on the basis of measurement taken in compliance with ISO 9614.
10. Sound power level in heating, outdoors.
11. Unit in standard configuration, without optional accessories.

Eurovent Certified Data

NX-Q-G06 R454B 4 Compressor Air Source Polyvalent Unit

(149 to 310kW)

Super-Low Noise Version (/SL)

Mitsubishi Electric's **NX-Q-G06** is our range of air source simultaneous heating and cooling (polyvalent / 4-pipe) using four high efficiency scroll compressors as standard.

Key Features & Benefits

- Low GWP refrigerant R454B provides an environmentally friendly solution
- Exceptional seasonal efficiency in a compact footprint
- High efficiency scroll compressors providing a dual refrigeration circuit
- Wide range of options available including: inbuilt hydronic pumps, dual pressure relief valves, BEMS interface cards, EC Fans and many more
- Copper/Aluminium auxiliary heat exchanger with other protection coating options available

R454B



INTEGRA

CLIMAVENETA

MODEL			0604	0704	0804	0904	1004	1104	1204
COOLING WITH HEAT RECOVERY*1 *2 *3									
COOLING CAPACITY		kW	144.8	165.7	186.2	211.1	236.1	269.2	304.0
RECOVERY HEAT EXCHANGER CAPACITY		kW	188.8	216.1	243.1	274.6	306.4	350.9	396.0
TOTAL POWER INPUT		kW	47.48	54.37	61.53	68.63	75.93	88.35	99.48
TER		kW/kW	7.027	7.021	6.978	7.077	7.146	7.019	7.037
PERFORMANCE - HEATING ONLY*4 *2									
TOTAL HEAT CAPACITY		kW	149.8	167.6	193.2	213.1	238.1	277.2	310.6
COP		kW/kW	3.05	3.03	3.01	3.00	3.05	3.10	3.03
PERFORMANCE - COOLING ONLY*1 *2									
TOTAL COOLING CAPACITY		kW	136.0	153.0	175.7	192.4	216.0	250.0	281.8
EER		kW/kW	2.48	2.40	2.46	2.33	2.39	2.45	2.42
SEASONAL PERFORMANCE*5									
PRated,C		kW	136.0	153.0	175.7	192.4	216.0	250.0	281.8
SEER			3.72	3.79	3.67	3.67	3.73	3.91	3.76
ELECTRICAL DATA									
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
MAX F.L.A*6	Total	A	115	133	160	176	193	218	251
EXCHANGERS									
MINIMUM WATER FLOW IN COOLING*4	Evaporator	l/s	4.444	4.917	5.611	6.278	7.139	8.250	9.250
MINIMUM WATER FLOW IN HEATING*1	Condenser	l/s	4.444	4.917	5.611	6.278	7.139	8.250	9.250
REFRIGERANT CIRCUIT									
COMPRESSORS		No.	4	4	4	4	4	4	4
CIRCUITS		No.	2	2	2	2	2	2	2
REFRIGERANT CHARGE*7		kg	49.5	63.1	63.2	63.3	73.8	99.0	99.0
NOISE LEVELS									
TOTAL SOUND PRESSURE*8		dB(A)	50	50	51	51	51	53	54
TOTAL SOUND POWER LEVEL IN COOLING*9		dB(A)	82	82	83	83	83	85	86
TOTAL SOUND POWER LEVEL IN HEATING*10		dB(A)	83	83	84	84	84	86	87
SIZE AND WEIGHT*11									
WIDTH		mm	3110	3110	4110	4110	4110	5110	5110
DEPTH		mm	2220	2220	2220	2220	2220	2220	2220
HEIGHT		mm	2150	2150	2150	2150	2150	2150	2150
OPERATION WEIGHT		kg	1750	1850	2070	2230	2480	2810	2930

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. Plant (side) heat exchanger water (in/out) 12°C/7°C; Plant (side) heat exchanger water (in/out) 40°C / 45°C.
4. Plant (side) exchanger hot water temperature (in/out) 40°C/45°C; Source (side) heat exchanger air (in) 7°C - 87% R.H.
5. Parameter calculated according to [Regulation (EU) N. 2016/2281.
6. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to databook.
7. Theoretical - refer to serial plate for actual charge volumes.
8. 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.
9. Sound power level in cooling, outdoors, on the basis of measurement taken in compliance with ISO 9614.
10. Sound power level in heating, outdoors.
11. Unit in standard configuration, without optional accessories.

Eurovent Certified Data

NX2-Q-G06 R454B Air Source Polyvalent Unit

(367 to 583kW)

Standard Version (/K)

Mitsubishi Electric's **NX2-Q-G06** is our range of air source simultaneous heating and cooling (polyvalent / 4-pipe) using high efficiency scroll compressors.

Key Features & Benefits

- Smart and independent management of the defrost cycles
- Exceptional seasonal efficiency in a compact footprint
- High efficiency scroll compressors providing a dual refrigeration circuit
- Electronic expansion valve supplied as standard
- Wide range of options available including: inbuilt hydronic pumps, dual pressure relief valves, BEMS interface cards, EC Fans and many more
- Copper/Aluminium auxiliary heat exchanger with other protection coating options available

R454B



INTEGRA

CLIMAVENETA

MODEL			0344	0364	0404	0446	0506	0526	0546
COOLING WITH HEAT RECOVERY*1 *2 *3									
COOLING CAPACITY		kW	346.9	366.8	403.0	451.8	494.3	533.0	550.6
RECOVERY HEAT EXCHANGER CAPACITY		kW	445.5	468.8	514.9	581.4	633.4	691.2	704.1
TOTAL POWER INPUT		kW	107.0	110.3	121.3	140.3	151.2	160.6	166.5
TER		kW/kW	7.41	7.57	7.57	7.36	7.46	7.56	7.53
PERFORMANCE - HEATING ONLY*4 *2									
TOTAL HEAT CAPACITY		kW	367.0	388.9	417.5	472.3	515.9	563.5	583.4
COP		kW/kW	3.03	3.08	3.06	3.00	3.02	3.06	3.08
PERFORMANCE - COOLING ONLY*1 *2									
TOTAL COOLING CAPACITY		kW	334.3	354.7	382.0	430.2	475.1	515.9	533.1
EER		kW/kW	2.69	2.78	2.67	2.62	2.68	2.78	2.79
SEASONAL PERFORMANCE*5									
Prated,C		kW	334.3	354.7	382.0	430.2	475.1	515.9	533.1
SEER			3.92	4.04	4.06	4.00	3.93	4.07	4.09
ELECTRICAL DATA									
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
MAX F.L.A*6	Total	A	257	270	297	333	365	392	405
EXCHANGERS									
MINIMUM WATER FLOW IN COOLING*4	Evaporator	l/s	10.58	11.31	12.33	13.89	13.89	17.50	17.50
MINIMUM WATER FLOW IN HEATING*1	Condenser	l/s	10.58	11.31	12.33	13.89	13.89	17.50	17.50
REFRIGERANT CIRCUIT									
COMPRESSORS		No.	4	4	4	6	6	6	6
CIRCUITS		No.	2	2	2	3	3	3	3
REFRIGERANT CHARGE*7		kg	77.4	93.6	93.6	97.2	108	124	125
NOISE LEVELS									
TOTAL SOUND PRESSURE*8		dB(A)	64	64	64	64	65	65	65
TOTAL SOUND POWER LEVEL IN COOLING*9		dB(A)	96	96	96	96	97	97	97
TOTAL SOUND POWER LEVEL IN HEATING*10		dB(A)	96	96	96	96	97	97	97
SIZE AND WEIGHT*11									
WIDTH		mm	3905	3905	3905	4515	5690	5690	5690
DEPTH		mm	2260	2260	2260	2260	2260	2260	2260
HEIGHT		mm	2450	2450	2450	2450	2450	2450	2450
OPERATION WEIGHT		kg	3400	3490	3530	4670	5030	5170	5230

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. Plant (side) heat exchanger water (in/out) 12°C/7°C; Plant (side) heat exchanger water (in/out) 40°C / 45°C.
4. Plant (side) exchanger hot water temperature (in/out) 40°C/45°C; Source (side) heat exchanger air (in) 7°C - 87% R.H.
5. Parameter calculated according to [Regulation (EU) N. 2016/2281.
6. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to databook.
7. Theoretical - refer to serial plate for actual charge volumes.
8. 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.
9. Sound power level in cooling, outdoors, on the basis of measurement taken in compliance with ISO 9614.
10. Sound power level in heating, outdoors.
11. Unit in standard configuration, without optional accessories.

Eurovent Certified Data

NX2-Q-G06 R454B Air Source Polyvalent Unit

(364 to 572kW)

Super-Low Noise Version (/SL)

Mitsubishi Electric's **NX2-Q-G06** is our range of air source simultaneous heating and cooling (polyvalent / 4-pipe) using high efficiency scroll compressors.

Key Features & Benefits

- Smart and independent management of the defrost cycles
- Exceptional seasonal efficiency in a compact footprint
- High efficiency scroll compressors providing a dual refrigeration circuit
- Electronic expansion valve supplied as standard
- Wide range of options available including: inbuilt hydronic pumps, dual pressure relief valves, BEMS interface cards, EC Fans and many more
- Copper/Aluminium auxiliary heat exchanger with other protection coating options available

R454B



INTEGRA

CLIMAVENETA

MODEL			0344	0364	0404	0446	0506	0526	0546
COOLING WITH HEAT RECOVERY*1 *2 *3									
COOLING CAPACITY		kW	346.9	366.8	403.0	451.8	494.3	533.0	550.5
RECOVERY HEAT EXCHANGER CAPACITY		kW	445.4	468.8	514.9	581.4	633.4	681.2	704.0
TOTAL POWER INPUT		kW	106.8	110.2	121.3	140.1	150.9	160.3	166.2
TER		kW/kW	7.42	7.59	7.57	7.37	7.47	7.57	7.55
PERFORMANCE - HEATING ONLY*4 *2									
TOTAL HEAT CAPACITY		kW	364.3	381.5	422.7	473.7	514.2	555.4	572.2
COP		kW/kW	3.15	3.13	3.18	3.10	3.12	3.15	3.13
PERFORMANCE - COOLING ONLY*1 *2									
TOTAL COOLING CAPACITY		kW	316.0	336.4	370.2	409.0	443.6	486.1	505.7
EER		kW/kW	2.44	2.51	2.54	2.38	2.38	2.49	2.51
SEASONAL PERFORMANCE*5									
Prated,C		kW	316.0	336.4	370.2	409.0	443.6	486.1	505.7
SEER			4.09	4.13	4.23	4.13	4.10	4.19	4.19
ELECTRICAL DATA									
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
MAX F.L.A*6	Total	A	249	265	291	325	350	381	397
EXCHANGERS									
MINIMUM WATER FLOW IN COOLING*4	Evaporator	l/s	10.58	11.31	12.33	13.89	13.89	17.50	17.50
MINIMUM WATER FLOW IN HEATING*1	Condenser	l/s	10.58	11.31	12.33	13.89	13.89	17.50	17.50
REFRIGERANT CIRCUIT									
COMPRESSORS		No.	4	4	4	6	6	6	6
CIRCUITS		No.	2	2	2	3	3	3	3
REFRIGERANT CHARGE*7		kg	87.3	92.7	107	113	128	128	128
NOISE LEVELS									
TOTAL SOUND PRESSURE*8		dB(A)	56	56	56	57	57	57	57
TOTAL SOUND POWER LEVEL IN COOLING*9		dB(A)	88	88	88	89	89	90	90
TOTAL SOUND POWER LEVEL IN HEATING*10		dB(A)	89	89	89	90	90	91	91
SIZE AND WEIGHT*11									
WIDTH		mm	4515	5080	5080	5690	5690	6865	7430
DEPTH		mm	2260	2260	2260	2260	2260	2260	2260
HEIGHT		mm	2450	2450	2450	2450	2450	2450	2450
OPERATION WEIGHT		kg	3700	3840	4010	5280	5390	5690	5800

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. Plant (side) heat exchanger water (in/out) 12°C/7°C; Plant (side) heat exchanger water (in/out) 40°C / 45°C.
4. Plant (side) exchanger hot water temperature (in/out) 40°C/45°C; Source (side) heat exchanger air (in) 7°C - 87% R.H.
5. Parameter calculated according to [Regulation (EU) N. 2016/2281.
6. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to databook.
7. Theoretical - refer to serial plate for actual charge volumes.
8. 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.
9. Sound power level in cooling, outdoors, on the basis of measurement taken in compliance with ISO 9614.
10. Sound power level in heating, outdoors.
11. Unit in standard configuration, without optional accessories.

Eurovent Certified Data

NX2-Q-G06 R454B Air Source Polyvalent Unit

(378 to 854kW)

High Efficiency Version (/A)

Mitsubishi Electric's **NX2-Q-G06** is our range of air source simultaneous heating and cooling (polyvalent / 4-pipe) using high efficiency scroll compressors.

Key Features & Benefits

- Smart and independent management of the defrost cycles
- Exceptional seasonal efficiency in a compact footprint
- High efficiency scroll compressors providing a dual refrigeration circuit
- Electronic expansion valve supplied as standard
- Wide range of options available including: inbuilt hydronic pumps, dual pressure relief valves, BEMS interface cards, EC Fans and many more
- Copper/Aluminium auxiliary heat exchanger with other protection coating options available

R454B



INTEGRA

CLIMAVENETA

MODEL			0344	0364	0404	0446	0506	0526	0546	0606	0708	0738	0768	0808
COOLING WITH HEAT RECOVERY*1 *2 *3														
COOLING CAPACITY		kW	346.9	366.8	403.0	451.8	494.3	533.0	550.6	605.6	695.7	734.1	769.7	807.2
RECOVERY HEAT EXCHANGER CAPACITY		kW	445.5	468.9	515.0	581.4	633.4	681.3	704.1	772.6	890.9	938.6	983.8	1030
TOTAL POWER INPUT		kW	107.2	110.5	121.6	140.7	151.6	160.8	166.8	181.5	212.1	221.4	232.1	241.8
TER		kW/kW	7.39	7.56	7.55	7.35	7.44	7.55	7.52	7.59	7.48	7.56	7.55	7.60
PERFORMANCE - HEATING ONLY*4 *2														
TOTAL HEAT CAPACITY		kW	378.7	399.7	429.4	495.5	534.2	577.0	599.6	640.6	753.4	795.3	826.0	854.1
COP		kW/kW	3.20	3.21	3.21	3.19	3.20	3.21	3.21	3.26	3.26	3.28	3.26	3.26
PERFORMANCE - COOLING ONLY*1 *2														
TOTAL COOLING CAPACITY		kW	344.9	361.1	399.3	446.0	499.5	525.3	543.0	598.8	696.0	724.2	761.4	798.6
EER		kW/kW	2.92	2.95	2.96	2.90	2.92	2.94	2.95	3.01	3.01	3.01	3.03	3.02
SEASONAL PERFORMANCE*5														
Prated,C		kW	344.9	361.1	399.3	446.0	499.5	525.3	543.0	598.8	696.0	724.2	761.4	798.6
SEER			4.28	4.38	4.44	4.36	4.28	4.37	4.36	4.56	4.56	4.56	4.58	4.56
ELECTRICAL DATA														
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
MAX F.L.A*6	Total	A	265	278	305	344	377	404	417	443	511	537	564	590
EXCHANGERS														
MINIMUM WATER FLOW IN COOLING*4	Evaporator	l/s	10.58	11.31	12.33	13.89	13.89	17.50	17.50	17.50	21.14	22.67	23.72	24.69
MINIMUM WATER FLOW IN HEATING*1	Condenser	l/s	10.58	11.31	12.33	13.89	13.89	17.50	17.50	17.50	21.14	22.67	23.72	24.69
REFRIGERANT CIRCUIT														
COMPRESSORS		No.	4	4	4	6	6	6	6	6	8	8	8	8
CIRCUITS		No.	2	2	2	3	3	3	3	3	4	4	4	4
REFRIGERANT CHARGE*7		kg	100	101	107	128	128	137	142	142	178	190	190	190
NOISE LEVELS														
TOTAL SOUND PRESSURE*8		dB(A)	65	65	65	64	65	65	65	66	66	67	67	67
TOTAL SOUND POWER LEVEL IN COOLING*9		dB(A)	97	97	97	97	98	98	98	99	99	100	100	100
TOTAL SOUND POWER LEVEL IN HEATING*10		dB(A)	97	97	97	97	98	98	98					
SIZE AND WEIGHT*11														
WIDTH		mm	5080	5080	5080	6255	7430	7430	7430	7430	9780	9780	9780	9780
DEPTH		mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT		mm	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450
OPERATION WEIGHT		kg	3720	3820	3860	5290	5530	5700	5780	5840	7440	7640	7680	7720

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. Plant (side) heat exchanger water (in/out) 12°C/7°C; Plant (side) heat exchanger water (in/out) 40°C / 45°C.
4. Plant (side) exchanger hot water temperature (in/out) 40°C/45°C; Source (side) heat exchanger air (in) 7°C - 87% R.H.
5. Parameter calculated according to [Regulation (EU) N. 2016/2281.
6. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to databook.
7. Theoretical - refer to serial plate for actual charge volumes.
8. 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.
9. Sound power level in cooling, outdoors, on the basis of measurement taken in compliance with ISO 9614.
10. Sound power level in heating, outdoors.
11. Unit in standard configuration, without optional accessories.

Eurovent Certified Data

i-FX-Q2-G05 R513A Air Source Polyvalent Unit

(463 to 1,029kW)

High Efficiency Version (/CA)

Mitsubishi Electric's **i-FX-Q2-G05** is our flagship range for air source simultaneous heating and cooling (polyvalent / 4-pipe). Thanks to its Variable Speed Drive (VSD) screw compressors and EC fans fitted as standard it brings exceptional seasonal efficiency by recovering heat from the cooling circuit to be used in the heating circuit.

Key Features & Benefits

- Best-in-class seasonal efficiency in a compact footprint
- High efficiency inverter screw compressors providing a dual refrigeration circuit
- EC fans supplied as standard
- Low GWP refrigerant R513A
- Wide range of options available including: inbuilt hydronic pumps, thermal and energy meters, Smart LAN functions and many more
- Copper/Aluminium auxiliary heat exchanger with other protection coating options available

R513A



INTEGRA

CLIMAVENETA

MODEL			0502	0532	0602	0652	0702	0802	0902	1002	1102
COOLING WITH HEAT RECOVERY*1 *2 *3											
COOLING CAPACITY		kW	488.1	532.5	570.1	623.5	682.1	783.9	913.9	986.8	1101
RECOVERY HEAT EXCHANGER CAPACITY		kW	623.1	681.2	728.8	795.2	872.3	1002	1168	1257	1405
TOTAL POWER INPUT		kW	145.7	160.5	170.6	185.6	205.6	234.7	275.7	292.5	329.6
TER		kW/kW	7.63	7.56	7.62	7.65	7.56	7.61	7.55	7.67	7.60
PERFORMANCE - HEATING ONLY*4 *2											
TOTAL HEAT CAPACITY		kW	463.4	491.5	531.3	599.0	659.5	765.3	871.2	938.3	1029
COP		kW/kW	3.31	3.27	3.00	3.34	3.32	3.38	3.33	3.36	3.35
PERFORMANCE - COOLING ONLY*1 *2											
TOTAL COOLING CAPACITY		kW	487.0	530.8	569.5	626.3	688.4	786.9	914.4	984.6	1082
EER		kW/kW	2.99	2.99	2.99	2.99	2.99	2.99	3.03	3.01	2.86
SEASONAL PERFORMANCE*5											
Prated,C		kW	487.0	530.8	569.5	626.3	688.4	786.9	914.4	984.6	1082
SEER			5.16	5.10	5.12	5.09	5.13	5.03	4.74	4.67	4.65
ELECTRICAL DATA											
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
MAX F.L.A*6	Total	A	362	362	387	458	484	515	576	625	699
EXCHANGERS											
MINIMUM WATER FLOW IN COOLING*4	Evaporator	l/s	11.11	11.11	16.39	16.39	16.39	25.00	25.00	30.56	30.56
MINIMUM WATER FLOW IN HEATING*1	Condenser	l/s	10.97	10.97	16.08	17.83	14.31	17.67	17.67	22.19	29.69
REFRIGERANT CIRCUIT											
COMPRESSORS		No.	2	2	2	2	2	2	2	2	2
CIRCUITS		No.	2	2	2	2	2	2	2	2	2
REFRIGERANT CHARGE*7		kg	255	255	300	305	370	460	475	420	425
NOISE LEVELS											
TOTAL SOUND PRESSURE*8		dB(A)	67	67	68	69	69	68	70	70	70
TOTAL SOUND POWER LEVEL IN COOLING*9		dB(A)	100	100	101	102	102	101	103	103	103
TOTAL SOUND POWER LEVEL IN HEATING*10		dB(A)	100	100	101	102	102	101	103	103	103
SIZE AND WEIGHT*11											
WIDTH		mm	8150	8150	8900	9650	10400	10400	10750	12250	12250
DEPTH		mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT		mm	2530	2530	2530	2530	2530	2530	2530	2530	2530
OPERATION WEIGHT		kg	8350	8380	9080	9590	10060	11010	12490	14170	14210

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. Plant (side) heat exchanger water (in/out) 12°C/7°C; Plant (side) heat exchanger water (in/out) 40°C / 45°C.
4. Plant (side) exchanger hot water temperature (in/out) 40°C/45°C; Source (side) heat exchanger air (in) 7°C - 87% R.H.
5. Seasonal space heating energy efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013] - Average Weather Conditions.
6. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to databook.
7. Theoretical - refer to serial plate for actual charge volumes.
8. 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.
9. Sound power level in cooling, outdoors, on the basis of measurement taken in compliance with ISO 9614.
10. Sound power level in heating, outdoors.
11. Unit in standard configuration, without optional accessories.

Eurovent Certified Data

i-FX-Q2-G05 R513A Air Source Polyvalent Unit

(459 to 1,018kW)

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

Mitsubishi Electric's **i-FX-Q2-G05** is our flagship range for air source simultaneous heating and cooling (polyvalent / 4-pipe). Thanks to its Variable Speed Drive (VSD) screw compressors and EC fans fitted as standard it brings exceptional seasonal efficiency by recovering heat from the cooling circuit to be used in the heating circuit.

Key Features & Benefits

- Best-in-class seasonal efficiency in a compact footprint
- High efficiency inverter screw compressors providing a dual refrigeration circuit
- EC fans supplied as standard
- Low GWP refrigerant R513A
- Wide range of options available including: inbuilt hydronic pumps, thermal and energy meters, Smart LAN functions and many more
- Copper/Aluminium auxiliary heat exchanger with other protection coating options available

R513A



INTEGRA

CLIMAVENETA

MODEL			0502	0532	0602	0652	0702	0802	0902	1002	1102
COOLING WITH HEAT RECOVERY*1 *2 *3											
COOLING CAPACITY		kW	488.1	532.6	570.1	623.5	682.1	783.8	913.9	986.8	1100
RECOVERY HEAT EXCHANGER CAPACITY		kW	623.1	681.4	728.8	795.2	872.3	1002	1168	1257	1405
TOTAL POWER INPUT		kW	145.5	160.3	170.4	185.3	205.4	234.5	274.6	291.6	329.3
TER		kW/kW	7.64	7.57	7.62	7.66	7.57	7.61	7.58	7.70	7.61
PERFORMANCE - HEATING ONLY*4 *2											
TOTAL HEAT CAPACITY		kW	459.0	486.8	526.4	593.3	653.7	756.8	860.7	929.0	1018
COP		kW/kW	3.33	3.28	3.31	3.35	3.34	3.39	3.33	3.38	3.36
PERFORMANCE - COOLING ONLY*1 *2											
TOTAL COOLING CAPACITY		kW	467.1	508.0	548.6	603.6	664.5	765.1	880.5	951.2	1038
EER		kW/kW	2.86	2.85	2.88	2.92	2.94	2.91	2.85	2.87	2.66
SEASONAL PERFORMANCE*5											
Prated,C		kW	467.1	508.0	548.6	603.6	664.5	765.1	880.5	951.2	1038
SEER			5.11	5.08	5.08	5.08	5.13	4.97	4.71	4.63	4.61
ELECTRICAL DATA											
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
MAX F.L.A*6	Total	A	362	362	387	458	484	515	576	625	699
EXCHANGERS											
MINIMUM WATER FLOW IN COOLING*4	Evaporator	l/s	11.11	11.11	16.39	16.39	16.39	25.00	25.00	30.56	30.56
MINIMUM WATER FLOW IN HEATING*1	Condenser	l/s	10.97	10.97	16.08	17.83	14.31	17.67	17.67	22.19	29.69
REFRIGERANT CIRCUIT											
COMPRESSORS		No.	2	2	2	2	2	2	2	2	2
CIRCUITS		No.	2	2	2	2	2	2	2	2	2
REFRIGERANT CHARGE*7		kg	255	255	300	305	370	460	475	420	425
NOISE LEVELS											
TOTAL SOUND PRESSURE*8		dB(A)	57	58	58	59	59	59	61	61	59
TOTAL SOUND POWER LEVEL IN COOLING*9		dB(A)	90	91	91	92	92	92	94	94	92
TOTAL SOUND POWER LEVEL IN HEATING*10		dB(A)	90	91	91	92	92	92	94	94	92
SIZE AND WEIGHT*11											
WIDTH		mm	8150	8150	8900	9650	10400	10400	10750	12250	12250
DEPTH		mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT		mm	2530	2530	2530	2530	2530	2530	2530	2530	2530
OPERATION WEIGHT		kg	8800	8830	9530	10040	10510	11450	12940	14620	14660

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. Plant (side) heat exchanger water (in/out) 12°C/7°C; Plant (side) heat exchanger water (in/out) 40°C / 45°C.
4. Plant (side) exchanger hot water temperature (in/out) 40°C/45°C; Source (side) heat exchanger air (in) 7°C - 87% R.H.
5. Seasonal space heating energy efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013] - Average Weather Conditions.
6. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to databook.
7. Theoretical - refer to serial plate for actual charge volumes.
8. 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.
9. Sound power level in cooling, outdoors, on the basis of measurement taken in compliance with ISO 9614.
10. Sound power level in heating, outdoors.
11. Unit in standard configuration, without optional accessories.

Eurovent Certified Data

i-FX-Q2-G05 R513A Air Source Polyvalent Unit

(438 to 898kW)

Extra-Low Noise, High Efficiency Version (/XL-CA)

Mitsubishi Electric's **i-FX-Q2-G05** is our flagship range for air source simultaneous heating and cooling (polyvalent / 4-pipe). Thanks to its Variable Speed Drive (VSD) screw compressors and EC fans fitted as standard it brings exceptional seasonal efficiency by recovering heat from the cooling circuit to be used in the heating circuit.

Key Features & Benefits

- Best-in-class seasonal efficiency in a compact footprint
- High efficiency inverter screw compressors providing a dual refrigeration circuit
- EC fans supplied as standard
- Low GWP refrigerant R513A
- Wide range of options available including: inbuilt hydronic pumps, thermal and energy meters, Smart LAN functions and many more
- Copper/Aluminium auxiliary heat exchanger with other protection coating options available

R513A



INTEGRA

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MODEL			0502	0532	0602	0652	0702	0802	0902	1002
COOLING WITH HEAT RECOVERY*1 *2 *3										
COOLING CAPACITY		kW	463.2	507.6	547.7	589.8	649.8	750.6	882.2	920.2
RECOVERY HEAT EXCHANGER CAPACITY		kW	590.9	648.3	696.5	752.2	829.8	959.9	1126	1178
TOTAL POWER INPUT		kW	137.2	151.5	159.7	174.6	193.8	224.9	262.8	278.0
TER		kW/kW	7.68	7.63	7.79	7.69	7.63	7.61	7.64	7.55
PERFORMANCE - HEATING ONLY*4 *2										
TOTAL HEAT CAPACITY		kW	438.6	466.8	507.3	566.3	627.3	728.8	834.0	898.0
COP		kW/kW	3.35	3.31	3.35	3.37	3.36	3.41	3.37	3.41
PERFORMANCE - COOLING ONLY*1 *2										
TOTAL COOLING CAPACITY		kW	442.5	483.0	525.3	571.2	632.0	731.4	847.1	911.7
EER		kW/kW	2.87	2.83	2.90	2.94	2.95	2.91	2.86	2.87
SEASONAL PERFORMANCE*5										
Prated,C		kW	442.5	483.0	525.3	571.2	632.0	731.4	847.1	911.7
SEER			5.10	5.08	5.10	5.04	5.19	5.00	4.60	4.56
ELECTRICAL DATA										
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
MAX F.L.A*6	Total	A	333	352	387	420	464	515	576	625
EXCHANGERS										
MINIMUM WATER FLOW IN COOLING*4	Evaporator	l/s	11.11	11.11	16.39	16.39	16.39	25.00	25.00	30.56
MINIMUM WATER FLOW IN HEATING*1	Condenser	l/s	10.97	10.97	16.08	17.83	14.31	17.67	17.67	22.19
REFRIGERANT CIRCUIT										
COMPRESSORS		No.	2	2	2	2	2	2	2	2
CIRCUITS		No.	2	2	2	2	2	2	2	2
REFRIGERANT CHARGE*7		kg	255	255	300	305	370	460	475	420
NOISE LEVELS										
TOTAL SOUND PRESSURE*8		dB(A)	53	54	55	55	55	56	55	56
TOTAL SOUND POWER LEVEL IN COOLING*9		dB(A)	86	87	88	88	88	89	88	89
TOTAL SOUND POWER LEVEL IN HEATING*10		dB(A)	87	88	89	89	89	90	89	90
SIZE AND WEIGHT*11										
WIDTH		mm	8150	8150	8900	9650	10400	10400	10750	12250
DEPTH		mm	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT		mm	2530	2530	2530	2530	2530	2530	2530	2530
OPERATION WEIGHT		kg	8800	8830	9530	10040	10510	11450	12940	14620

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. Plant (side) heat exchanger water (in/out) 12°C/7°C; Plant (side) heat exchanger water (in/out) 40°C / 45°C.
4. Plant (side) exchanger hot water temperature (in/out) 40°C/45°C; Source (side) heat exchanger air (in) 7°C - 87% R.H.
5. Seasonal space heating energy efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013] - Average Weather Conditions.
6. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to databook.
7. Theoretical - refer to serial plate for actual charge volumes.
8. 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.
9. Sound power level in cooling, outdoors, on the basis of measurement taken in compliance with ISO 9614.
10. Sound power level in heating, outdoors.
11. Unit in standard configuration, without optional accessories.

Eurovent Certified Data

i-FX-WQ-G05 R513A Water Source Polyvalent Unit

(451 to 953kW)

Mitsubishi Electric's **i-FX-WQ-G05** is our high performance water source simultaneous heating and cooling unit (Polyvalent / 6-pipe) that is fitted with Variable Speed Drive (VSD) screw compressors as standard.

Key Features & Benefits

- Compact and considered design
- Exceptional efficiency with inverter screw compressors across twin circuits
- High quality shell and tube heat exchangers
- Dual Pressure Relief Valves (PRV) and Electronic Expansion Valves (EEV) as standard
- Low GWP refrigerant R513A
- A wide range of options including; acoustic enclosure, thermal and energy meters, smart LAN functions and many more



INTEGRA

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R513A

MODEL			0402	0452	0532	0592	0632	0702	0792	0852
COOLING WITH HEAT RECOVERY*5 *2										
COOLING CAPACITY		kW	353.9	401.5	471.2	520.7	558.6	626.9	700.7	750.4
RECOVERY HEAT EXCHANGER CAPACITY		kW	451.9	512.9	597.0	662.0	712.0	800.2	888.8	953.9
TOTAL POWER INPUT		kW	106.1	120.7	136.1	153.3	166.3	187.8	203.4	220.5
TER		kW/kW	7.59	7.57	7.85	7.71	7.64	7.59	7.81	7.73
PERFORMANCE - HEATING ONLY*3 *2										
TOTAL HEAT CAPACITY		kW	451.9	512.9	597.0	662.0	712.0	800.2	888.8	953.9
COP		kW/kW	4.29	4.28	4.42	4.35	4.31	4.29	4.40	4.36
PERFORMANCE - COOLING ONLY*1 *2										
TOTAL COOLING CAPACITY		kW	407.6	462.3	544.5	602.9	648.0	725.8	813.3	871.5
EER		kW/kW	5.03	5.01	5.22	5.15	5.10	5.06	5.21	5.14
SEASONAL PERFORMANCE IN COOLING - AMBIENT REFRIGERATION										
Prated,C		kW	394.4	447.3	526.2	582.2	624.8	700.1	784.4	840.7
SEER			6.48	6.49	6.51	6.57	6.53	6.52	6.54	6.54
ELECTRICAL DATA										
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
MAX F.L.A*6	Total	A	241	270	304	338	381	428	454	480
EXCHANGERS										
MINIMUM WATER FLOW IN COOLING*4	Evaporator	l/s	12.50	15.28	17.22	17.22	21.67	24.44	26.11	26.11
MINIMUM WATER FLOW TO HEAT EXCHANGER	Source	l/s	7.02	7.97	9.16	10.06	11.00	12.25	13.83	15.00
MINIMUM WATER FLOW IN HEATING*1	Condenser	l/s	12.50	15.28	17.22	17.22	21.67	24.44	26.11	26.11
REFRIGERANT CIRCUIT										
COMPRESSORS		No.	2	2	2	2	2	2	2	2
CIRCUITS		No.	2	2	2	2	2	2	2	2
THEORETICAL REFRIGERANT CHARGE		kg	80	80	102	102	126	152	152	137
NOISE LEVELS										
TOTAL SOUND PRESSURE*7		dB(A)	65	65	66	67	67	67	67	67
TOTAL SOUND POWER LEVEL IN COOLING*8. *9		dB(A)	97	97	98	99	99	99	99	99
TOTAL SOUND POWER LEVEL IN HEATING*8 *10		dB(A)	97	97	98	99	99	99	99	99
SIZE AND WEIGHT*11										
WIDTH		mm	5000	5000	5000	5000	5000	5550	5550	5550
DEPTH		mm	1400	1400	1400	1400	1400	1400	1400	1400
HEIGHT		mm	1950	1950	2050	2050	2050	2050	2050	2050
OPERATION WEIGHT		kg	4010	4030	5520	5860	5984	6414	6884	7294

Notes:

1. Plant (side) cooling exchanger water (in/out) 12.00°C/7.00°C; Source (side) heat exchanger water (in/out) 14.00°C/30.00°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 water (in/out) 14.00°C/7.00°C.
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. Plant (side) cooling exchanger water */7.00°C (same water flow rate found during the cooling mode); Plant (side) heat exchanger water */45.00°C (same water flow rate found during the heating mode).
6. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to databook.
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.
10. Sound power level in heating.
11. Unit in standard configuration, without optional accessories.

Eurovent Certified Data

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.

- Retail stores / Shopping centres
- Airports
- Offices
- Cinemas / Theatres
- 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

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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 speed/inverter scroll and screw compressors.



e-series

EACV
R32 Modular
Air Cooled Chiller

(150 to 1,080kW)

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

R32



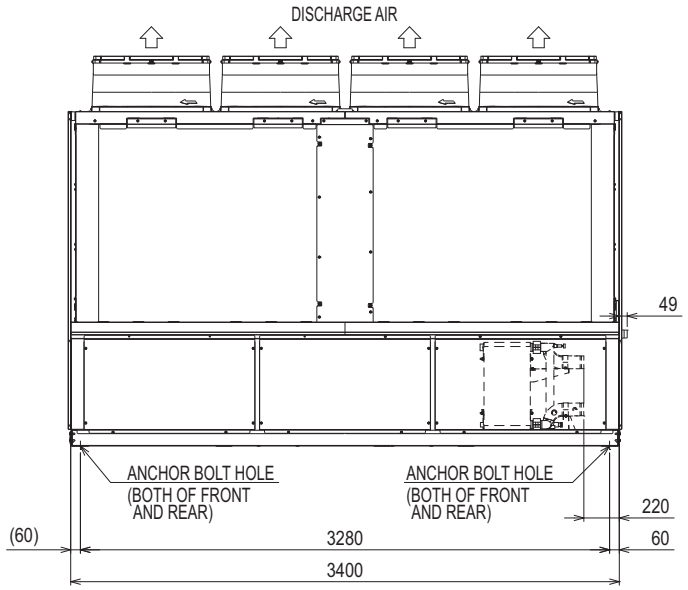
MODEL			EACV-M1500YCL-N	EACV-M1800YCL-N
POWER SOURCE			3-phase 4-wire 380-400-415v 50/60Hz	3-phase 4-wire 380-400-415v 50/60Hz
COOLING CAPACITY*1		kW	150	180
	Power Input	kW	44.73	57.02
	EER		3.35	3.16
	IPLV*4		6.42	6.31
	Water Flow Rate	m^3/h	25.8	31.0
COOLING CAPACITY (EN14511)*2		kW	149.18	178.80
	Power Input	kW	45.55	58.22
	EER		3.28	3.07
	Eurovent Efficiency Class		A	B
	SEER		5.52	5.36
	Performance ($\eta_{s,c}$)	%	217.8	211.4
	SEPR (HT)*5		7.11	6.36
	Water Flow Rate	m^3/h	25.8	31.0
CURRENT INPUT	Cooling Current 380-400-415V*1	A	76 - 72 - 69	96 - 91 - 88
	Maximum Current	A	120	120
WATER PRESSURE DROP*1	Standard Piping	kPa	56	79
	Inside Header Piping	kPa	134	190
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		3400 ×1080 x 2350	3400 ×1080 x 2350
NET WEIGHT	Standard Piping	mm	1039 (2291)	1039 (2291)
	Inside Header Piping	kg (lbs)	1067 (2352)	1067 (2352)
DESIGN PRESSURE	R32	kg (lbs)	4.15	4.15
	Water	MPa	1.0	1.0
HEAT EXCHANGER	Water Side	MPa	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

Notes:

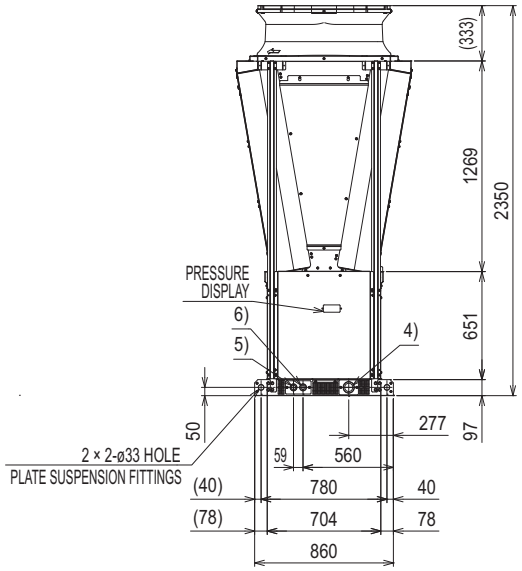
1. Under normal cooling conditions at outdoor temp 35°CDB/24°CWB (95°FDB/75.2°FWB) outlet water temp 7°C (44.6°F) inlet water temp 12°C (53.6°F). Pump input is not included in cooling capacity and power input.
2. Under normal cooling conditions at outdoor temp 35°CDB/24°CWB (95°FDB/75.2°FWB) outlet water 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. The unit is delivered fully charged with refrigerant. No additional refrigerant is required.
4. IPLV is calculated in accordance with AHRI 550-590.
5. This value is not certified by Eurovent.

*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.

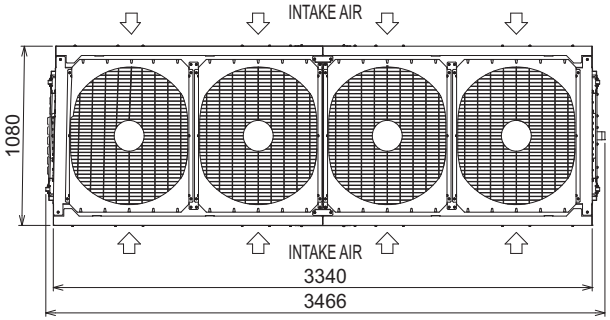
Front View



Side View



Upper View



MECH-iB-G07 R32 Air Cooled Chiller

(15 to 38kW)





Mitsubishi Electric's **MECH-iB-G07** chiller provides a compact and convenient solution to your small-scale cooling needs. Designed to meet the highest of quality standards, the range uses variable speed scroll compressors optimised for using the lower GWP refrigerant R32.

Key Features & Benefits

- Extended cooling envelope
- Compact design
- Providing fluid leaving temperatures as low as -12°C
- Operates down to -20°C ambient temperatures
- Low GWP R32 Refrigerant
- High seasonal efficiency (EER, SEER, SEPR)
- Plug & Play with Integrated hydronic pump, flow switch and expansion vessel

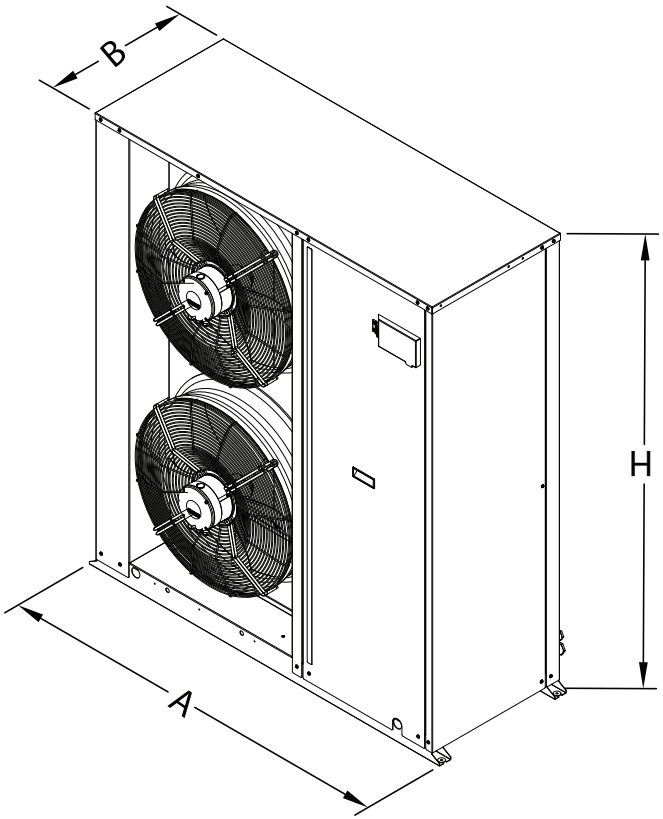
R32

MODEL			15Y	18Y	23Y	27Y	35Y	40Y
PERFORMANCE - COOLING ONLY								
GROSS VALUE*1								
TOTAL COOLING CAPACITY		kW	14.93	17.79	21.03	27.73	32.51	38.19
TOTAL POWER INPUT		kW	4.83	5.23	6.50	8.42	9.90	11.88
EER		kW/kW	3.09	3.40	3.23	3.29	3.28	3.21
EN14511 VALUES*1 *2								
TOTAL COOLING CAPACITY		kW	15.00	17.90	21.10	27.80	32.70	38.40
EER		kW/kW	3.10	3.40	3.25	3.31	3.30	3.23
SEASONAL PERFORMANCE*3								
Prated, C		kW	15.0	17.9	21.1	27.8	32.7	38.4
SEER			5.23	5.4	5.66	5.39	5.46	5.24
PERFORMANCE HS		%	206.0	213.0	223.0	212.0	215.0	207.0
ELECTRICAL DATA								
POWER SUPPLY	Total	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
F.L.A.*4		A	11	12	15	20	24	28
EXCHANGERS								
MINIMUM WATER FLOW	Heat Exchanger	l/s	0.389	0.464	0.581	0.728	0.856	0.986
MINIMUM WATER CONTENT	System	l	75	90	115	140	165	193
HEAT EXCHANGER USER SIDE IN COOLING*1 *2								
WATER FLOW		l/s	0.714	0.851	1.005	1.326	1.554	1.827
PRESSURE DROP		kPa	15.2	21.6	15.1	20.5	25.1	23.8
REFRIGERANT CIRCUIT								
COMPRESSORS		l/s	1	1	1	1	1	1
CIRCUITS		kPa	1	1	1	1	1	1
REGULATION			Stepless	Stepless	Stepless	Stepless	Stepless	Stepless
MINUMUM CAPACITY STEP		%	32	34	29	30	26	26
REFRIGERANT			R32	R32	R32	R32	R32	R32
REFRIGERANT CHARGE*5		kg	2.10	2.83	3.60	4.74	5.67	6.00
OIL CHARGE			1.00	1.00	1.00	2.30	2.30	2.30
RC (ASHRAE)*6		kg/kW	0.14	0.16	0.17	0.17	0.18	0.16
FANS								
QUANTITY		No.	2	2	1	2	2	2
AIRFLOW		m^3/s	1.84	1.95	2.34	4.52	4.35	4.75
POWER INPUT		kW	0.22	0.22	0.39	0.78	0.78	0.78
NOISE LEVELS								
TOTAL SOUND PRESSURE*7		dB(A)	39	40	45	46	47	48
TOTAL SOUND POWER LEVEL IN COOLING*8 *9		dB(A)	70	71	76	78	79	80
SIZE AND WEIGHT*10								
WIDTH		mm	900	900	1450	1450	1450	1700
DEPTH		mm	420	420	550	550	550	650
HEIGHT		mm	1390	1390	1200	1700	1700	1700
OPERATION WEIGHT		kg	144	155	207	256	272	306

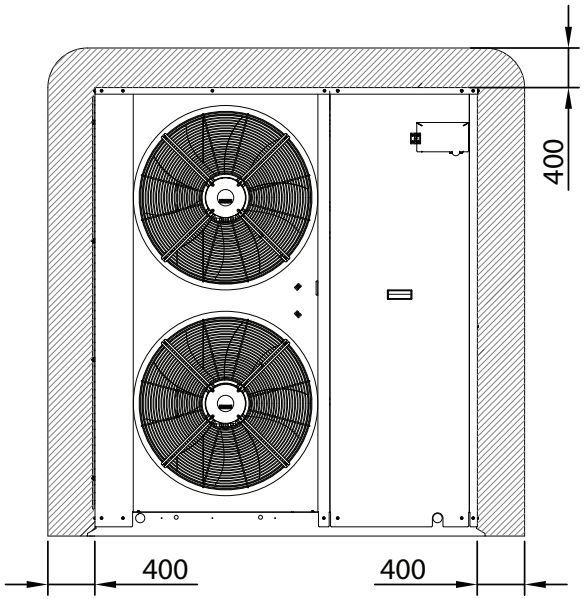
Notes:

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. Parameter calculated according to [Regulation (EU) N. 2016/2281]
4. Values calculated referring to the version with the maximum number of fans working at the max absorbed current. Safety values to be considered when cabling the unit for power supply and line-protection. Data valid for standard units without any additional options and only indicative. Refer to databook.
5. Theoretical - refer to serial plate for actual charge volumes
6. Rate in accordance with AHRI standard 550/590
7. 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.
8. Sound power on the basis of measurement taken in compliance with ISO 9614.
9. Sound power level in cooling, outdoors.
10. Unit in standard configuration, without optional accessories.

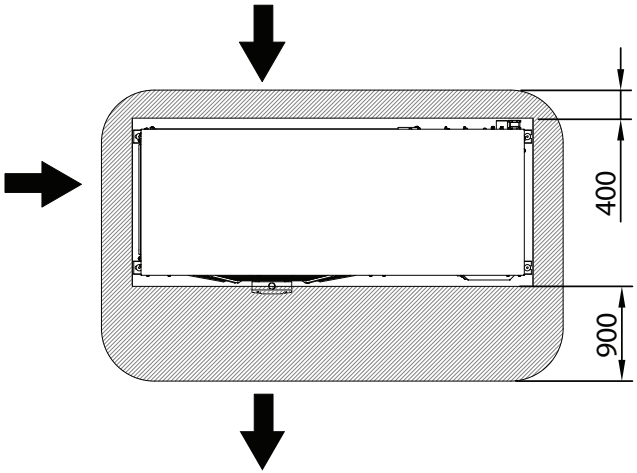
Eurovent Certified Data



Front View



Top View



MECH-iF-G05 R513A High Performance Air Cooled Chiller

(414 to 921kW)

Mitsubishi Electric's **MECH-iF-G05** high performance chiller brings a new class of efficiency with its proprietary Variable Speed Drive (VSD) screw compressor cooling. Available with three configurations for noise performance (Standard, NR Kit and SL version), it features a wide operating envelope and a patented Reduced Exergy Depletion (RED) Cooler, further driving efficiencies and energy saving.

Key Features & Benefits

- Best in class efficiency
- Mitsubishi Electric's proprietary single screw compressor
- 3 noise configurations available
- CU/AL coil treatments available
- Wide operating envelope down to -20°C ambient*

*Additional low temperature options may be required.

R513A



MODEL			0411	0802	0902	0411	0802	0902	0411	0802	0902
VERSION			-	-	-	-NR	-NR	-NR	-SL	-SL	-SL
PERFORMANCE - COOLING ONLY											
GROSS VALUE[1]											
TOTAL COOLING CAPACITY		kW	414.4	814.7	921.1	411.0	807.0	913.0	407.1	799.6	903.7
TOTAL POWER INPUT		kW	133.7	249.6	289.6	134.5	251.0	291.1	135.6	252.8	293.1
EER		kW/kW	3.10	3.26	3.18	3.06	3.22	3.14	3.00	3.16	3.08
EN14511 VALUES[1][2]											
TOTAL COOLING CAPACITY		kW	413.9	814.1	920.4	410.6	806.3	912.4	406.6	799.0	903.1
EER		kW/kW	3.06	3.22	3.15	3.01	3.17	3.10	2.96	3.12	3.05
SEASONAL PERFORMANCE[3]											
$P_{RATED,C}$		kW	413.9	814.1	920.4	410.6	806.3	912.4	406.6	799.0	903.1
SEER			5.34	5.62	5.73	5.33	5.61	5.73	5.32	5.62	5.73
PERFORMANCE ηs		%	210	222	226	210	222	226	210	222	226
HEAT EXCHANGER IN COOLING[1]											
WATER FLOW	User Side	l/s	19.8	39.0	44.1	19.7	38.6	43.7	19.5	38.2	43.2
PRESSURE DROP[2]	User Side	kPa	54.1	50.9	40.7	53.3	50	40.1	52.5	49.3	39.4
ELECTRICAL DATA											
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
F.L.A.[4]	Total	A	269	533	554	269	533	554	269	533	554
EXCHANGERS											
MINIMUM WATER FLOW	Evaporator	l/s	6.1	14.5	18.1	6.1	14.5	18.1	6.1	14.5	18.1
MINIMUM WATER CONTENT	Plant	l	2000	2800	3200	2000	2800	3200	2000	2800	3200
FANS											
QUANTITY		No.	6	12	14	6	12	14	6	12	14
AIRFLOW		m^3/s	32.4	64.8	75.6	29.4	58.8	68.6	27.8	55.6	64.8
REFRIGERANT CIRCUIT											
COMPRESSORS		No.	1	2	2	1	2	2	1	2	2
CIRCUITS		No.	1	2	2	1	2	2	1	2	2
REFRIGERANT			R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A
REFRIGERANT CHARGE[5]		kg	89	170	199	89	170	199	89	170	199
NOISE LEVELS											
TOTAL SOUND PRESSURE[6]		dB(A)	64	65	70	61	62	68	57	58	64
TOTAL SOUND POWER LEVEL IN COOLING[7]		dB(A)	96	98	103	93	95	101	89	91	97
SIZE AND WEIGHT[8]											
WIDTH		mm	4150	7900	9150	4150	7900	9150	4150	7900	9150
DEPTH		mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT		mm	2500	2500	2500	2500	2500	2500	2500	2500	2500
OPERATING WEIGHT		kg	4350	8150	8610	4350	8150	8610	4350	8150	8610

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. Parameter calculated according to [Regulation (EU) N. 2016/2281].
4. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to Databook.
5. Theoretical - refer to serial plate for actual charge volumes.
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. Sound power on the basis of measurement taken in compliance with ISO 9614. Sound power level in cooling, outdoors.
8. Unit in standard configuration, without optional accessories.

Eurovent Certified Data

MECH-iF-G04 R1234ze High Performance Air Cooled Chiller

(346 to 828kW)

Mitsubishi Electric's **MECH-iF-G04** high performance chiller brings a new class of efficiency with its proprietary Variable Speed Drive (VSD) screw compressor cooling. Available with three configurations for noise performance (Standard, NR Kit and SL version), it features a wide operating envelope and a patented Reduced Exergy Depletion (RED) Cooler, further driving efficiencies and energy saving.

Key Features & Benefits

- Best in class efficiency
- Mitsubishi Electric's proprietary single screw compressor
- 3 noise configurations available
- CU/AL coil treatments available
- Low GWP refrigerant (GWP_{100} = 1)*

*IPCC AR5

R1234ze



MODEL			0351	0702	0802	0351	0702	0802	0351	0702	0802
VERSION			-	-	-	-NR	-NR	-NR	-SL	-SL	-SL
PERFORMANCE - COOLING ONLY											
GROSS VALUE[1]											
TOTAL COOLING CAPACITY		kW	346.0	701.9	828.1	342.6	696.2	819.5	339.2	690.0	811.0
TOTAL POWER INPUT		kW	105.8	213.0	269.5	106.0	213.5	270.5	106.6	214.3	271.6
EER		kW/kW	3.27	3.30	3.07	3.23	3.26	3.03	3.18	3.22	2.99
EN14511 VALUES[1-2]											
TOTAL COOLING CAPACITY		kW	345.5	701.3	827.4	342.2	695.6	818.8	338.8	689.3	810.4
EER		kW/kW	3.22	3.25	3.04	3.19	3.22	3.00	3.14	3.18	2.95
SEASONAL PERFORMANCE[3]											
$P_{RATED,C}$		kW	345.5	701.3	827.4	342.2	695.6	818.8	338.8	689.3	810.4
SEER			5.68	5.83	5.85	5.68	5.83	5.85	5.67	5.83	5.84
PERFORMANCE ηs		%	224	230	231	224	230	231	224	230	231
HEAT EXCHANGER IN COOLING[1]											
WATER FLOW	User Side	l/s	16.5	33.6	39.6	16.4	33.3	39.2	16.2	33.0	38.8
PRESSURE DROP[2]	User Side	kPa	48	54.1	48.4	47.2	53.4	47.6	46.5	52.6	46.7
ELECTRICAL DATA											
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
F.L.A.[4]	Total	A	251	503	509	251	503	509	251	503	509
EXCHANGERS											
MINIMUM WATER FLOW	Evaporator	l/s	5.7	12.3	14.6	5.7	12.3	14.6	5.7	12.3	14.6
MINIMUM WATER CONTENT	Plant	l	1700	2400	2800	1700	2400	2800	1700	2400	2800
FANS											
QUANTITY		No.	6	12	14	6	12	14	6	12	14
AIRFLOW		m^3/s	32.4	64.8	75.6	29.4	58.8	68.6	27.8	55.6	64.8
REFRIGERANT CIRCUIT											
COMPRESSORS		No.	1	2	2	1	2	2	1	2	2
CIRCUITS		No.	1	2	2	1	2	2	1	2	2
REFRIGERANT			R1234ze	R1234ze	R1234ze	R1234ze	R1234ze	R1234ze	R1234ze	R1234ze	R1234ze
REFRIGERANT CHARGE[5]		kg	74	150	177	74	150	177	74	150	177
NOISE LEVELS											
TOTAL SOUND PRESSURE[6]		dB(A)	68	70	72	66	68	70	59	61	63
TOTAL SOUND POWER LEVEL IN COOLING[7]		dB(A)	100	103	105	98	101	103	91	94	96
SIZE AND WEIGHT[8]											
WIDTH		mm	4150	7900	9150	4150	7900	9150	4150	7900	9150
DEPTH		mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT		mm	2500	2500	2500	2500	2500	2500	2500	2500	2500
OPERATING WEIGHT		kg	4050	7650	8580	4050	7650	8580	4110	7730	8670

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. Parameter calculated according to [Regulation (EU) N. 2016/2281].
4. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to Databook.
5. Theoretical - refer to serial plate for actual charge volumes.
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. Sound power on the basis of measurement taken in compliance with ISO 9614. Sound power level in cooling, outdoors.
8. Unit in standard configuration, without optional accessories.

Eurovent Certified Data

NX2-G06 R454B 2 Compressor Air Cooled Chiller

(40 to 208kW)

Mitsubishi Electric's **NX2-G06** is our outdoor Air Cooled Chiller providing chilled water with hermetic rotary scroll compressors, ozone-friendly refrigerant R454B, axial-flow fans, plate heat exchanger and electronic expansion valve.

Key Features & Benefits

- Best-in-class seasonal efficiency in a compact footprint
- High quality brazed plate heat exchanger
- High efficiency scroll compressors
- EC Fans available as an option for improved efficiency
- Noise Reducer available for improved sound



R454B

MODEL		0042	0052	0062	0072	0082	0092	0102	0112	0122	0142	0162	0182	0202	0222
PERFORMANCE - COOLING ONLY [1]															
TOTAL COOLING CAPACITY	kW	40.53	48.58	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	kW	13.64	16.10	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	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
EN14511 VALUES [1] [2]															
TOTAL COOLING CAPACITY	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	kW/kW	2.92	2.97	3.12	3.38	3.26	3.09	3.29	3.11	2.99	2.87	3.15	3.10	3.00	2.90
SEASONAL PERFORMANCE [3]															
PRATED,C	kW	40.4	48.5	54.0	60.8	68.0	79.6	93.1	103.5	116.2	129.3	151.7	173.9	186.6	208.3
SEER		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 ηs	%	181	186	179	183	180	181	178	168	170	172	176	177	176	175
ELECTRICAL DATA															
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	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
F.L.A [4]	A	36	41	41	47	52	60	71	79	92	104	121	134	152	163
EXCHANGERS															
MINIMUM WATER FLOW	l/s	1.16	1.38	1.58	1.77	2.00	2.33	2.72	3.05	3.41	3.77	4.47	5.11	5.47	6.13
MINIMUM WATER CONTENT	l	109	130	145	165	182	216	251	278	314	351	409	468	502	565
REFRIGERANT CIRCUIT															
COMPRESSORS	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
THEORETICAL REFRIGERANT CHARGE [5]	kg	7.6	7.6	8.0	9.9	10.0	11.1	13.1	14.3	15.5	15.8	21.9	22.7	22.8	22.9
NOISE LEVELS															
TOTAL SOUND PRESSURE [6]	dB(A)	49	50	49	51	52	52	52	52	52	53	54	55	55	56
TOTAL SOUND POWER LEVEL IN COOLING [7]	dB(A)	81	82	81	83	84	84	84	84	84	85	86	87	87	88
SIZE AND WEIGHT [8]															
WIDTH	mm	1825	1825	1825	2395	2395	2395	2825	2825	2825	2825	3980	3980	3980	3980
DEPTH	mm	1195	1195	1195	1195	1195	1195	1195	1195	1195	1195	1195	1195	1195	1195
HEIGHT	mm	1865	1865	1865	1865	1865	1865	1980	1980	1980	1980	1980	1980	1980	1980
OPERATION WEIGHT	kg	500	510	550	630	630	640	770	770	850	920	1130	1170	1180	1220

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. Parameter calculated according to [Regulation (EU) N. 2016/2281]
4. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to databook.
5. Theoretical - refer to serial plate for actual charge volumes
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. Sound power on the basis of measurement taken in compliance with ISO 9614. Sound power level in cooling, outdoors.
8. Unit in standard configuration, without option accessories.

Eurovent Certified Data

NX2-G06 R454B 4 Compressor Air Cooled Chiller

(168 to 345kW)

Mitsubishi Electric's **NX2-G06** is our outdoor Air Cooled Chiller providing chilled water with hermetic rotary scroll compressors, ozone-friendly refrigerant R454B, axial-flow fans, plate heat exchanger and electronic expansion valve.

Key Features & Benefits

- Best-in-class seasonal efficiency in a compact footprint
- High quality brazed plate heat exchanger
- High efficiency scroll compressors
- EC Fans available as an option for improved efficiency
- 2 different configurations for noise and efficiency performance available



R454B

MODEL			0184P	0214P	0244P	0264P	0294P	0334P	0374P
PERFORMANCE - COOLING ONLY [1]									
TOTAL COOLING CAPACITY		kW	168.4	197.5	226.2	250.7	280.0	313.1	345.8
TOTAL POWER INPUT		kW	49.44	58.24	68.66	77.32	81.59	93.64	106.6
EER		kW/kW	3.409	3.393	3.293	3.243	3.431	3.345	3.244
EN14511 VALUES [1 2]									
TOTAL COOLING CAPACITY		kW	168.1	197.2	225.8	250.4	279.7	312.8	345.4
EER		kW/kW	3.35	3.34	3.24	3.20	3.38	3.30	3.20
SEASONAL PERFORMANCE [3]									
PRATED,C		kW	168.1	197.2	225.8	250.4	279.7	312.8	345.4
SEER			4.73	4.76	4.78	4.79	4.71	4.73	4.62
PERFORMANCE ηs		%	186	188	188	189	185	186	182
ELECTRICAL DATA									
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
F.L.A [4]	Total	A	133	152	170	186	209	235	262
EXCHANGERS									
MINIMUM WATER FLOW	Evaporator	l/s	5.25	6.14	7.03	7.78	8.69	9.81	10.89
MINIMUM WATER CONTENT	Plant	l	440	520	590	660	730	820	920
REFRIGERANT CIRCUIT									
COMPRESSORS		No.	4	4	4	4	4	4	4
CIRCUITS		No.	2	2	2	2	2	2	2
THEORETICAL REFRIGERANT CHARGE [5]		kg	30.1	31.9	37.5	37.6	47.5	51.8	51.9
NOISE LEVELS									
TOTAL SOUND PRESSURE [6]		dB(A)	54	54	55	55	56	58	59
TOTAL SOUND POWER LEVEL IN COOLING [7]		dB(A)	86	86	87	87	88	90	91
SIZE AND WEIGHT [8]									
WIDTH		mm	3160	3160	3160	3160	4335	4335	4335
DEPTH		mm	2250	2250	2250	2250	2250	2250	2250
HEIGHT		mm	2290	2290	2290	2290	2290	2290	2290
OPERATION WEIGHT		kg	1620	1640	1850	1880	2230	2260	2470

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. Parameter calculated according to [Regulation (EU) N. 2016/2281].
4. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to databook.
5. Theoretical - refer to serial plate for actual charge volumes.
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. Sound power on the basis of measurement taken in compliance with ISO 9614. Sound power level in cooling, outdoors.
8. Unit in standard configuration, without option accessories.

Eurovent Certified Data

NX2-G06 R454B 4-8 Compressor Air Cooled Chiller

(379 to 867kW)

Standard Version (/K)



Mitsubishi Electric's **NX2-G06** is our outdoor Air Cooled Chiller producing chilled water with hermetic rotary scroll compressors, ozone-friendly refrigerant R454B, axial-flow fans, Shell & Tube heat exchanger and electronic expansion valve.

Key Features & Benefits

- Best-in-class seasonal efficiency in a compact footprint
- High quality Shell & Tube heat exchanger
- High efficiency scroll compressors
- EC Fans available as an option for improved efficiency
- 3 different configurations for noise and efficiency performance available

R454B

MODEL			0404	0424	0464	0515	0576	0585	0636	0676	0706	0768	0808	0848	0898	0928
PERFORMANCE - COOLING ONLY [1]																
TOTAL COOLING CAPACITY		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		kW	115.6	122.6	136.9	152.2	167.4	168.7	183.9	198.2	200.4	218.0	231.5	245.1	259.4	273.6
EER		kW/kW	3.279	3.254	3.192	3.206	3.219	3.241	3.251	3.210	3.276	3.305	3.281	3.256	3.221	3.169
EN14511 VALUES [1 2]																
TOTAL COOLING CAPACITY		kW	378.6	398.5	436.5	487.5	538.3	546.2	597.3	635.7	655.9	719.8	758.8	797.4	834.8	866.4
EER		kW/kW	3.22	3.21	3.14	3.16	3.17	3.20	3.21	3.17	3.23	3.26	3.23	3.22	3.18	3.13
SEASONAL PERFORMANCE [3]																
PRATED,C		kW	378.6	398.5	436.5	487.5	538.3	546.2	597.3	635.7	655.9	719.8	758.8	797.4	834.8	866.4
SEER			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 ηs		%	184	184	183	185	185	187	187	186	188	187	187	187	187	187
ELECTRICAL DATA																
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
F.L.A [4]	Total	A	257	270	297	329	362	373	406	432	449	488	514	541	567	594
EXCHANGERS																
MINIMUM WATER FLOW	Evaporator	l/s	10.58	11.31	12.33	13.67	14.97	15.69	17.00	18.03	18.97	19.86	21.14	22.67	23.72	24.69
MINIMUM WATER CONTENT	Plant	l	950	1000	1090	1460	1610	1640	1790	1910	1970	2160	2280	2400	2500	2600
REFRIGERANT CIRCUIT																
COMPRESSORS		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
THEORETICAL REFRIGERANT CHARGE [5]		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 LEVELS																
TOTAL SOUND PRESSURE [6]		dB(A)	62	62	62	62	63	63	62	62	63	63	63	64	64	64
TOTAL SOUND POWER LEVEL IN COOLING [7]		dB(A)	94	94	94	94	95	95	95	95	96	96	96	97	97	97
SIZE AND WEIGHT [8]																
WIDTH		mm	3905	3905	3905	5080	5080	5080	6255	6255	6255	7430	7430	7430	7430	7430
DEPTH		mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT		mm	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560
OPERATION WEIGHT		kg	2590	2620	2660	3190	3420	3500	3940	3980	4100	4970	5010	5080	5120	5150

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. Parameter calculated according to [Regulation (EU) N. 2016/2281].
4. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to databook.
5. Theoretical - refer to serial plate for actual charge volumes.
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. Sound power on the basis of measurement taken in compliance with ISO 9614. Sound power level in cooling, outdoors.
8. Unit in standard configuration, without option accessories.

Eurovent Certified Data

NX2-G06 R454B 4-8 Compressor Air Cooled Chiller

(380 to 872kW)

High Efficiency Version (/A)



Mitsubishi Electric's **NX2-G06** is our outdoor Air Cooled Chiller producing chilled water with hermetic rotary scroll compressors, ozone-friendly refrigerant R454B, axial-flow fans, Shell & Tube heat exchanger and electronic expansion valve.

Key Features & Benefits

- Best-in-class seasonal efficiency in a compact footprint
- High quality Shell & Tube heat exchanger
- High efficiency scroll compressors
- EC Fans available as an option for improved efficiency
- 3 different configurations for noise and efficiency performance available

R454B

MODEL			0404	0424	0464	0515	0576	0585	0636	0676	0706	0768	0808	0848	0898	0928
PERFORMANCE - COOLING ONLY [1]																
TOTAL COOLING CAPACITY		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		kW	111.3	117.1	129.4	145.0	161.1	161.8	177.5	188.0	194.2	211.1	222.6	234.4	246.5	258.4
EER		kW/kW	3.41	3.41	3.39	3.38	3.35	3.39	3.37	3.39	3.39	3.41	3.42	3.41	3.40	3.37
EN14511 VALUES [1] [2]																
TOTAL COOLING CAPACITY		kW	379.5	399.5	439.3	489.7	540.2	548.1	599.1	638.4	658.0	720.4	761.5	800.5	839.0	871.6
EER		kW/kW	3.35	3.37	3.34	3.33	3.30	3.35	3.33	3.35	3.34	3.37	3.37	3.37	3.36	3.33
SEASONAL PERFORMANCE [3]																
PRATED,C		kW	379.5	399.5	439.3	489.7	540.2	548.1	599.1	638.4	658.0	720.4	761.5	800.5	839.0	871.6
SEER			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 ηs		%	187	188	186	188	186	190	190	192	190	189	189	190	191	191
ELECTRICAL DATA																
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
F.L.A [4]	Total	A	265	278	305	337	370	381	413	444	457	503	530	556	583	610
EXCHANGERS																
MINIMUM WATER FLOW	Evaporator	l/s	10.58	11.31	12.33	13.67	14.97	15.69	17.00	18.03	18.97	19.86	21.14	22.67	23.72	24.69
MINIMUM WATER CONTENT	Plant	l	950	1000	1090	1460	1610	1640	1790	1910	1970	2160	2280	2400	2500	2600
REFRIGERANT CIRCUIT																
COMPRESSORS		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
THEORETICAL REFRIGERANT CHARGE [5]		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 LEVELS																
TOTAL SOUND PRESSURE [6]		dB(A)	63	63	63	62	63	63	63	64	64	64	64	65	65	65
TOTAL SOUND POWER LEVEL IN COOLING [7]		dB(A)	95	95	95	95	96	96	96	97	97	97	97	98	98	98
SIZE AND WEIGHT [8]																
WIDTH		mm	5080	5080	5080	3255	6255	6255	7430	7430	7430	9780	9780	9780	9780	9780
DEPTH		mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT		mm	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560
OPERATION WEIGHT		kg	2930	2960	3000	3600	3830	3900	4290	4430	4450	5660	5720	5770	5810	5850

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. Parameter calculated according to [Regulation (EU) N. 2016/2281].
4. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to databook.
5. Theoretical - refer to serial plate for actual charge volumes.
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. Sound power on the basis of measurement taken in compliance with ISO 9614. Sound power level in cooling, outdoors.
8. Unit in standard configuration, without option accessories.

Eurovent Certified Data

i-FX2-G05 R513A Air Cooled Chiller

(533 to 1,079kW)

Standard Version (-K)

The new generation of customisable screw compressor chillers has arrived with Climaveneta's range of **i-FX2** air cooled chillers. Available with 3 efficiency levels, all of which can be combined with 4 different levels of noise suppression, and the ability to fit integrated hydronic pumps; the **i-FX2** range has a multitude of combinations to match your project requirements.

Key Features & Benefits

- Next generation efficient design
- Wide operating envelope for comfort and process applications
- Variety of low noise versions to match your project requirements
- Exceptionally compact design
- Wide variety of customisations available including factory fitted hydronic pumps

R513A



CLIMAVENETA

MODEL			0532	0602	0622	0672	0732	0802	0892	0972	1032	1082
PERFORMANCE - COOLING ONLY												
GROSS VALUE[1]												
TOTAL COOLING CAPACITY		kW	533.2	597.3	623.6	674.3	725.5	800.5	889.2	966.7	1034	1079
TOTAL POWER INPUT		kW	182.5	202.8	208.4	224.5	247.3	280.9	307.4	325.4	344.5	362.8
EER		kW/kW	2.92	2.95	2.99	3.00	2.93	2.85	2.89	2.97	3.00	2.97
EN14511 VALUES[1][2]												
TOTAL COOLING CAPACITY		kW	532.7	596.7	623.0	673.7	724.8	799.9	888.5	966.0	1033	1078
EER		kW/kW	2.89	2.91	2.96	2.97	2.90	2.82	2.86	2.94	2.97	2.93
SEASONAL PERFORMANCE[3]												
$P_{RATED,C}$		kW	533	597	623	674	725	800	888	966	1033	1078
SEER			5.08	5.00	5.06	4.89	4.85	4.87	4.99	5.00	4.90	4.97
PERFORMANCE ηs		%	200	197	199	193	191	192	197	197	193	196
HEAT EXCHANGER IN COOLING[1]												
WATER FLOW	User Side	l/s	25.5	28.6	29.8	32.2	34.7	38.3	42.5	46.2	49.4	51.6
PRESSURE DROP[2]	User Side	kPa	43.3	54.4	45.8	53.5	56.3	46.3	57.1	42.5	48.6	64.5
ELECTRICAL DATA												
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
F.L.A.[4]	Total	A	360	398	407	436	481	559	624	626	639	701
EXCHANGERS												
MINIMUM WATER FLOW	Evaporator	l/s	13.1	13.1	14.4	14.4	16.7	20.0	20.0	24.7	24.7	22.5
MINIMUM WATER CONTENT	Plant	l	1900	2100	2200	2400	2500	2800	3100	3400	3600	3800
FANS												
QUANTITY		No.	6	7	7	8	8	9	10	11	12	12
AIRFLOW		m^3/s	30.9	36.1	36.1	41.2	41.2	46.4	51.5	56.7	61.8	61.8
REFRIGERANT CIRCUIT												
COMPRESSORS		No.	2	2	2	2	2	2	2	2	2	2
CIRCUITS		No.	2	2	2	2	2	2	2	2	2	2
REFRIGERANT			R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A
REFRIGERANT CHARGE[5]		kg	83	92	94	101	112	132	143	155	166	167
NOISE LEVELS												
TOTAL SOUND PRESSURE[6]		dB(A)	68	69	69	69	70	69	70	71	71	71
TOTAL SOUND POWER LEVEL IN COOLING[7]		dB(A)	100	101	101	101	102	102	103	104	104	104
SIZE AND WEIGHT[8]												
WIDTH		mm	4150	5400	5400	5400	5400	6650	6650	7900	7900	7900
DEPTH		mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT		mm	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640
OPERATING WEIGHT		kg	4500	5000	5007	5106	5388	5863	5974	6464	6584	7031

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. Parameter calculated according to [Regulation (EU) N. 2016/2281].
4. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to Databook.
5. Theoretical - refer to serial plate for actual charge volumes.
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. Sound power on the basis of measurement taken in compliance with ISO 9614. Sound power level in cooling, outdoors.
8. Unit in standard configuration, without optional accessories.

Eurovent Certified Data

i-FX2-G05 R513A Air Cooled Chiller

(1,123 to 1,859kW)

Standard Version (-K) continued

The new generation of customisable screw compressor chillers has arrived with Climaveneta's range of **i-FX2** air cooled chillers. Available with 3 efficiency levels, all of which can be combined with 4 different levels of noise suppression, and the ability to fit integrated hydronic pumps; the **i-FX2** range has a multitude of combinations to match your project requirements.

Key Features & Benefits

- Next generation efficient design
- Wide operating envelope for comfort and process applications
- Variety of low noise versions to match your project requirements
- Exceptionally compact design
- Wide variety of customisations available including factory fitted hydronic pumps

R513A



MODEL			1122	1192	1242	1382	1452	1552	1633	1703	1863
PERFORMANCE - COOLING ONLY											
GROSS VALUE[1]											
TOTAL COOLING CAPACITY		kW	1123	1185	1243	1382	1450	1551	1628	1702	1859
TOTAL POWER INPUT		kW	384.0	389.6	413.8	454.1	495.0	501.8	550.3	579.2	621.9
EER		kW/kW	2.92	3.04	3.01	3.04	2.93	3.09	2.96	2.94	2.99
EN14511 VALUES[1-2]											
TOTAL COOLING CAPACITY		kW	1122	1184	1242	1382	1449	1550	1627	1701	1858
EER		kW/kW	2.88	3.00	2.96	3.01	2.89	3.05	2.92	2.90	2.96
SEASONAL PERFORMANCE[3]											
$P_{RATED,C}$		kW	1122	1184	1242	1382	1449	1550	1627	1701	1858
SEER			5.01	5.04	5.05	5.12	5.03	5.16	4.99	5.04	5.13
PERFORMANCE ηs		%	197	199	199	202	198	203	197	198	202
HEAT EXCHANGER IN COOLING[1]											
WATER FLOW	User Side	l/s	53.7	56.7	59.4	66.1	69.3	74.2	77.9	81.4	88.9
PRESSURE DROP[2]	User Side	kPa	69.9	67.6	69.9	61.3	67.5	58.5	69.4	75.9	52.6
ELECTRICAL DATA											
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
F.L.A.[4]	Total	A	785	825	857	932	984	1008	1094	1178	1270
EXCHANGERS											
MINIMUM WATER FLOW	Evaporator	l/s	22.5	23.6	24.2	28.3	28.3	37.2	38.9	38.9	41.7
MINIMUM WATER CONTENT	Plant	l	3900	4100	4400	4800	5100	5400	5700	6000	6500
FANS											
QUANTITY		No.	12	14	14	16	16	18	18	18	20
AIRFLOW		m^3/s	61.8	72.1	72.1	82.4	82.4	92.7	92.7	92.7	103
REFRIGERANT CIRCUIT											
COMPRESSORS		No.	2	2	2	2	2	2	3	3	3
CIRCUITS		No.	2	2	2	2	2	2	3	3	3
REFRIGERANT			R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A
REFRIGERANT CHARGE[5]		kg	167	187	207	243	243	263	263	268	288
NOISE LEVELS											
TOTAL SOUND PRESSURE[6]		dB(A)	72	72	73	73	73	73	73	73	74
TOTAL SOUND POWER LEVEL IN COOLING[7]		dB(A)	105	105	106	106	106	106	106	106	107
SIZE AND WEIGHT[8]											
WIDTH		mm	7900	9150	9150	10400	10400	11650	11650	11650	12900
DEPTH		mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT		mm	2640	2640	2640	2640	2640	2640	2640	2640	2640
OPERATING WEIGHT		kg	7409	8243	8249	9008	9008	10165	11301	11679	12284

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. Parameter calculated according to [Regulation (EU) N. 2016/2281].
4. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to Databook.
5. Theoretical - refer to serial plate for actual charge volumes.
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. Sound power on the basis of measurement taken in compliance with ISO 9614. Sound power level in cooling, outdoors.
8. Unit in standard configuration, without optional accessories.

Eurovent Certified Data

i-FX2-G04 R1234ze Air Cooled Chiller

(392 to 861kW)

High Efficiency Version (-E)

The new generation of customisable screw compressor chillers has arrived with Climaveneta's range of **i-FX2** air cooled chillers. Available with 3 efficiency levels, all of which can be combined with 4 different levels of noise suppression, and the ability to fit integrated hydronic pumps; the **i-FX2** range has a multitude of combinations to match your project requirements.

Key Features & Benefits

- Next generation of efficiency with exceptionally low GWP refrigerant (GWP_{100} = 1)*
- Wide operating envelope for comfort and process applications
- Variety of low noise versions to match your project requirements
- Exceptionally compact design
- Wide variety of customisations available including factory fitted hydronic pumps

*IPCC AR5

R1234ze



CLIMAVENETA

MODEL			0392	0432	0502	0552	0662	0742	0872
PERFORMANCE - COOLING ONLY									
GROSS VALUE[1]									
TOTAL COOLING CAPACITY		kW	392.5	426.2	499.3	550.7	658.3	744.3	861.4
TOTAL POWER INPUT		kW	116.4	128.6	145.1	161.4	207.6	234.7	269.2
EER		kW/kW	3.37	3.31	3.44	3.41	3.17	3.17	3.20
EN14511 VALUES[1-2]									
TOTAL COOLING CAPACITY		kW	392.0	425.7	498.8	550.2	657.7	743.7	860.8
EER		kW/kW	3.33	3.27	3.41	3.37	3.13	3.14	3.17
SEASONAL PERFORMANCE[3]									
$P_{RATED,C}$		kW	392	426	499	550	658	744	861
SEER			2.56	5.59	5.59	5.65	5.64	5.42	5.40
PERFORMANCE ηs		%	219	221	220	223	223	214	213
HEAT EXCHANGER IN COOLING[1]									
WATER FLOW	User Side	l/s	18.8	20.4	23.9	26.3	31.5	35.6	41.2
PRESSURE DROP[2]	User Side	kPa	39.1	46.2	33.3	40.6	51.0	40.0	33.7
ELECTRICAL DATA									
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
F.L.A.[4]	Total	A	273	301	334	360	461	532	594
EXCHANGERS									
MINIMUM WATER FLOW	Evaporator	l/s	9.2	9.2	13.9	13.9	14.4	20.0	24.7
MINIMUM WATER CONTENT	Plant	l	1400	1500	1700	1900	2300	2600	3000
FANS									
QUANTITY		No.	6	7	8	8	10	12	12
AIRFLOW		m^3/s	30.9	36.05	41.2	41.2	51.5	61.8	61.8
REFRIGERANT CIRCUIT									
COMPRESSORS		No.	2	2	2	2	2	2	2
CIRCUITS		No.	2	2	2	2	2	2	2
REFRIGERANT			R1234ze	R1234ze	R1234ze	R1234ze	R1234ze	R1234ze	R1234ze
REFRIGERANT CHARGE[5]		kg	72	82	92	94	125	149	154
NOISE LEVELS									
TOTAL SOUND PRESSURE[6]		dB(A)	68	69	69	70	69	71	73
TOTAL SOUND POWER LEVEL IN COOLING[7]		dB(A)	100	101	101	102	102	104	106
SIZE AND WEIGHT[8]									
WIDTH		mm	4150	5400	5400	5400	6650	7900	7900
DEPTH		mm	2260	2260	2260	2260	2260	2260	2260
HEIGHT		mm	2640	2640	2640	2640	2640	2640	2640
OPERATING WEIGHT		kg	4428	4942	5105	5105	5693	6579	7342

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. Parameter calculated according to [Regulation (EU) N. 2016/2281].
4. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to Databook.
5. Theoretical - refer to serial plate for actual charge volumes.
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. Sound power on the basis of measurement taken in compliance with ISO 9614. Sound power level in cooling, outdoors.
8. Unit in standard configuration, without optional accessories.

Eurovent Certified Data

i-FX2-G04 R1234ze Air Cooled Chiller

(929 to 1,532kW)

High Efficiency Version (-E) continued

The new generation of customisable screw compressor chillers has arrived with Climaveneta's range of **i-FX2** air cooled chillers. Available with 3 efficiency levels, all of which can be combined with 4 different levels of noise suppression, and the ability to fit integrated hydronic pumps; the **i-FX2** range has a multitude of combinations to match your project requirements.

Key Features & Benefits

- Next generation of efficiency with exceptionally low GWP refrigerant (GWP_{100} = 1)*
- Wide operating envelope for comfort and process applications
- Variety of low noise versions to match your project requirements
- Exceptionally compact design
- Wide variety of customisations available including factory fitted hydronic pumps

*IPCC AR5

R1234ze



MODEL			0932	1022	1072	1183	1323	1433	1533
PERFORMANCE - COOLING ONLY									
GROSS VALUE[1]									
TOTAL COOLING CAPACITY		kW	929.7	1023	1072	1184	1327	1425	1532
TOTAL POWER INPUT		kW	285.7	303.4	325.3	360.6	408.8	433.9	473.0
EER		kW/kW	3.25	3.37	3.30	3.28	3.25	3.28	3.24
EN14511 VALUES[1-2]									
TOTAL COOLING CAPACITY		kW	929.1	1023	1072	1183	1327	1424	1531
EER		kW/kW	3.22	3.32	3.25	3.25	3.21	3.24	3.21
SEASONAL PERFORMANCE[3]									
$P_{RATED,C}$		kW	929	1023	1072	1183	1327	1424	1531
SEER			5.45	5.62	5.6	5.37	5.43	5.50	5.57
PERFORMANCE ηs		%	215	222	221	212	214	217	220
HEAT EXCHANGER IN COOLING[1]									
WATER FLOW	User Side	l/s	44.5	48.9	51.3	56.6	63.5	68.1	73.2
PRESSURE DROP[2]	User Side	kPa	39.3	58.0	55.4	45.0	46.2	53.2	35.7
ELECTRICAL DATA									
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
F.L.A.[4]	Total	A	642	687	719	818	892	960	1017
EXCHANGERS									
MINIMUM WATER FLOW	Evaporator	l/s	24.7	22.5	23.6	28.3	38.9	38.9	41.7
MINIMUM WATER CONTENT	Plant	l	3300	3600	3800	4100	4600	5000	5400
FANS									
QUANTITY		No.	14	16	16	18	18	20	20
AIRFLOW		m^3/s	72.1	82.4	82.4	92.7	92.7	103	103
REFRIGERANT CIRCUIT									
COMPRESSORS		No.	2	2	2	3	3	3	3
CIRCUITS		No.	2	2	2	3	3	3	3
REFRIGERANT			R1234ze	R1234ze	R1234ze	R1234ze	R1234ze	R1234ze	R1234ze
REFRIGERANT CHARGE[5]		kg	168	182	187	261	276	290	300
NOISE LEVELS									
TOTAL SOUND PRESSURE[6]		dB(A)	73	73	73	73	73	74	74
TOTAL SOUND POWER LEVEL IN COOLING[7]		dB(A)	106	106	106	106	106	107	107
SIZE AND WEIGHT[8]									
WIDTH		mm	9150	10400	10400	11650	11650	12900	12900
DEPTH		mm	2260	2260	2260	2260	2260	2260	2260
HEIGHT		mm	2640	2640	2640	2640	2640	2640	2640
OPERATING WEIGHT		kg	8053	8634	8805	11067	11655	12243	12314

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. Parameter calculated according to [Regulation (EU) N. 2016/2281].
4. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to Databook.
5. Theoretical - refer to serial plate for actual charge volumes.
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. Sound power on the basis of measurement taken in compliance with ISO 9614. Sound power level in cooling, outdoors.
8. Unit in standard configuration, without optional accessories.

Eurovent Certified Data

i-FX2-G04 R1234ze Air Cooled Chiller

(408 to 797kW)

Low noise with EC Fans Version (-SL-K-EC)



The new generation of customisable screw compressor chillers has arrived with Climaveneta's range of **i-FX2** air cooled chillers. Available with 3 efficiency levels, all of which can be combined with 4 different levels of noise suppression, and the ability to fit integrated hydronic pumps; the **i-FX2** range has a multitude of combinations to match your project requirements.

Key Features & Benefits

- Next generation of efficiency with exceptionally low GWP refrigerant (GWP_{100} = 1)*
- Wide operating envelope for comfort and process applications
- Variety of low noise versions to match your project requirements
- Exceptionally compact design
- Wide variety of customisations available including factory fitted hydronic pumps

*IPCC AR5

R1234ze

MODEL			0422	0452	0512	0572	0602	0672	0712	0772	0862
PERFORMANCE - COOLING ONLY											
GROSS VALUE[1]											
TOTAL COOLING CAPACITY		kW	408.5	439.1	482.0	544.7	575.0	636.0	688.8	741.6	797.0
TOTAL POWER INPUT		kW	128.6	144.9	159.7	169.4	183.2	219.0	225.7	249.7	262.0
EER		kW/kW	3.18	3.03	3.02	3.22	3.14	2.90	3.05	2.97	3.04
EN14511 VALUES[1-2]											
TOTAL COOLING CAPACITY		kW	408.1	438.6	481.6	544.2	574.5	635.4	688.1	740.9	796.5
EER		kW/kW	3.14	2.99	2.99	3.18	3.10	2.87	3.01	2.93	3.02
SEASONAL PERFORMANCE[3]											
$P_{RATED,C}$		kW	408	439	482	544	574	635	688	741	796
SEER			5.45	5.35	5.28	5.39	5.34	5.24	5.40	5.16	5.11
PERFORMANCE ηs		%	215	211	208	213	211	207	213	203	201
HEAT EXCHANGER IN COOLING[1]											
WATER FLOW	User Side	l/s	19.5	21.0	23.1	26.1	27.5	30.4	32.9	35.5	38.1
PRESSURE DROP[2]	User Side	kPa	42.4	49.0	31.1	39.7	44.2	47.6	55.8	58.8	28.9
ELECTRICAL DATA											
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
F.L.A.[4]	Total	A	291	316	339	379	398	458	489	525	551
EXCHANGERS											
MINIMUM WATER FLOW	Evaporator	l/s	9.17	9.17	13.89	13.89	13.89	14.44	14.44	16.67	24.72
MINIMUM WATER CONTENT	Plant	l	1400	1500	1700	1900	2000	2200	2400	2600	2800
FANS											
QUANTITY		No.	6	6	6	8	8	8	10	10	10
AIRFLOW		m^3/s	27.78	27.78	27.78	37.04	37.04	37.04	46.30	46.30	46.30
REFRIGERANT CIRCUIT											
COMPRESSORS		No.	2	2	2	2	2	2	2	2	2
CIRCUITS		No.	2	2	2	2	2	2	2	2	2
REFRIGERANT			R1234ze	R1234ze	R1234ze	R1234ze	R1234ze	R1234ze	R1234ze	R1234ze	R1234ze
REFRIGERANT CHARGE[5]		kg	72	76	78	92	94	96	125	130	136
NOISE LEVELS											
TOTAL SOUND PRESSURE[6]		dB(A)	59	60	60	61	61	61	62	62	63
TOTAL SOUND POWER LEVEL IN COOLING[7]		dB(A)	91	92	92	93	93	93	95	95	96
SIZE AND WEIGHT[8]											
WIDTH		mm	4150	4150	4150	5400	5400	5400	6650	6650	6650
DEPTH		mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT		mm	2640	2640	2640	2640	2640	2640	2640	2640	2640
OPERATING WEIGHT		kg	4949	4961	5056	5686	5686	5718	6283	6643	7405

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. Parameter calculated according to [Regulation (EU) N. 2016/2281].
4. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to Databook.
5. Theoretical - refer to serial plate for actual charge volumes.
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. Sound power on the basis of measurement taken in compliance with ISO 9614. Sound power level in cooling, outdoors.
8. Unit in standard configuration, without optional accessories.

Eurovent Certified Data

i-FX2-G04 R1234ze Air Cooled Chiller

(926 to 1,619kW)

Low noise with EC Fans Version (-SL-K-EC) continued



The new generation of customisable screw compressor chillers has arrived with Climaveneta's range of **i-FX2** air cooled chillers. Available with 3 efficiency levels, all of which can be combined with 4 different levels of noise suppression, and the ability to fit integrated hydronic pumps; the **i-FX2** range has a multitude of combinations to match your project requirements.

Key Features & Benefits

- Next generation of efficiency with exceptionally low GWP refrigerant (GWP_{100} = 1)*
- Wide operating envelope for comfort and process applications
- Variety of low noise versions to match your project requirements
- Exceptionally compact design
- Wide variety of customisations available including factory fitted hydronic pumps

*IPCC AR5

R1234ze

MODEL			0962	1062	1152	1253	1333	1463	1573	1683
PERFORMANCE - COOLING ONLY										
GROSS VALUE[1]										
TOTAL COOLING CAPACITY		kW	926.4	1016	1110	1186	1234	1412	1511	1619
TOTAL POWER INPUT		kW	305.0	322.0	363.7	383.3	404.2	461.3	499.1	529.9
EER		kW/kW	3.04	3.16	3.05	3.09	3.05	3.06	3.03	3.06
EN14511 VALUES[1-2]										
TOTAL COOLING CAPACITY		kW	925.7	1015	1109	1185	1233	1411	1510	1619
EER		kW/kW	3.01	3.11	3.01	3.06	3.02	3.03	2.99	3.01
SEASONAL PERFORMANCE[3]										
$P_{RATED,C}$		kW	926	1015	1109	1185	1233	1411	1510	1619
SEER			5.13	5.25	5.23	5.16	5.17	5.18	5.23	5.26
PERFORMANCE ηs		%	202	207	206	203	204	204	206	207
HEAT EXCHANGER IN COOLING[1]										
WATER FLOW	User Side	l/s	44.3	48.6	53.1	56.7	59.0	67.5	72.3	77.4
PRESSURE DROP[2]	User Side	kPa	39.0	57.2	59.3	45.2	48.8	48.5	59.8	68.7
ELECTRICAL DATA										
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
F.L.A.[4]	Total	A	651	702	764	812	857	987	1045	1097
EXCHANGERS										
MINIMUM WATER FLOW	Evaporator	l/s	24.72	22.5	23.61	28.33	28.33	37.22	38.89	38.89
MINIMUM WATER CONTENT	Plant	l	3200	3600	3900	4200	4300	4900	5300	5700
FANS										
QUANTITY		No.	12	14	14	16	16	18	18	20
AIRFLOW		m^3/s	55.56	64.82	64.82	74.08	74.08	83.34	83.34	92.6
REFRIGERANT CIRCUIT										
COMPRESSORS		No.	2	2	2	3	3	3	3	3
CIRCUITS		No.	2	2	2	3	3	3	3	3
REFRIGERANT			R1234ze	R1234ze	R1234ze	R1234ze	R1234ze	R1234ze	R1234ze	R1234ze
REFRIGERANT CHARGE[5]		kg	158	178	183	227	232	256	276	300
NOISE LEVELS										
TOTAL SOUND PRESSURE[6]		dB(A)	63	63	63	63	63	64	64	64
TOTAL SOUND POWER LEVEL IN COOLING[7]		dB(A)	96	96	96	96	96	97	97	97
SIZE AND WEIGHT[8]										
WIDTH		mm	7900	9150	9150	10400	10400	11650	11650	12900
DEPTH		mm	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT		mm	2640	2640	2640	2640	2640	2640	2640	2640
OPERATING WEIGHT		kg	7935	8697	8869	11375	11377	12508	12598	13171

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. Parameter calculated according to [Regulation (EU) N. 2016/2281].
4. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to Databook.
5. Theoretical - refer to serial plate for actual charge volumes.
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. Sound power on the basis of measurement taken in compliance with ISO 9614. Sound power level in cooling, outdoors.
8. Unit in standard configuration, without optional accessories.

Eurovent Certified Data

FX2-G05 R513A Air Cooled Chiller

(322 to 996kW)

Standard Version (/K)

The new generation of customisable screw compressor chillers has arrived with Mitsubishi Electric's range of **FX2-G05** air cooled chillers. The second generation of this chiller family marks considerable developments in seasonal efficiency, footprint, noise, operating envelope and configuration and customisation.

Key Features & Benefits

- Compressors using low GWP refrigerant
- Wide operating envelope for comfort and process applications
- Exceptionally compact design
- Available with EC Fans including High ESP version

R513A



CLIMAVENETA

MODEL			0322	0352	0402	0472	0512	0572	0652	0702	0772	0852	0902	1002
PERFORMANCE - COOLING ONLY [1]														
TOTAL COOLING CAPACITY		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		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		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
EN14511 VALUES [1 2]														
TOTAL COOLING CAPACITY		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		kW/kW	3.12	2.91	3.06	3.14	2.97	3.01	3.08	2.93	3.02	3.13	3.14	3.12
SEASONAL PERFORMANCE [3]														
PRATED,C		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
SEER			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 ηs		%	177	177	179	180	179	179	180	180	180	180	180	181
HEAT EXCHANGER IN COOLING [1]														
WATER FLOW	User Side	l/s	15.4	16.8	19.7	22.2	24.7	27.4	30.9	33.8	37.3	41.3	44.8	47.6
PRESSURE DROP [2]	User Side	kPa	27.7	32.7	38.8	49.4	37.3	46	46.6	44.5	54.1	47.2	49.2	55.6
ELECTRICAL DATA														
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
F.L.A. [4]	Total	A	228	257	275	293	362	410	459	459	515	571	622	673
EXCHANGERS														
MINIMUM WATER FLOW	Evaporator	l/s	10.6	10.6	13.3	13.3	12.5	12.5	15.8	17.5	17.5	19.2	19.2	19.2
MINIMUM WATER CONTENT	Plant	l	1100	1200	1400	1600	1800	2000	2300	2500	2700	3000	3300	3500
FANS														
QUANTITY		No.	4	4	5	6	6	7	8	8	9	10	11	12
AIRFLOW		m3/s	21.3	21.3	26.6	31.9	31.9	37.2	42.5	42.5	47.9	53.2	58.5	63.8
REFRIGERANT CIRCUIT														
COMPRESSORS		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
THEORETICAL REFRIGERANT CHARGE [5]		kg	57	60	71	81	88	98	113	120	133	150	163	173
NOISE LEVELS														
TOTAL SOUND PRESSURE [6]		dB(A)	67	67	67	68	68	68	68	70	69	69	70	70
TOTAL SOUND POWER LEVEL IN COOLING [7]		dB(A)	99	99	99	100	100	100	100	102	102	102	103	103
SIZE AND WEIGHT [8]														
WIDTH		mm	2750	2750	4000	4000	4000	5250	5250	5250	6500	6500	7750	7750
DEPTH		mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT		mm	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640
OPERATION WEIGHT		kg	3120	2950	3600	3730	4570	5060	5190	5550	6400	6980	7460	7620

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. Parameter calculated according to [Regulation (EU) N. 2016/2281].
4. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to databook.
5. Theoretical - refer to serial plate for actual charge volumes.
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. Sound power on the basis of measurement taken in compliance with ISO 9614. Sound power level in cooling, outdoors.
8. Unit in standard configuration, without option accessories.

Eurovent Certified Data

FX2-G05 R513A Air Cooled Chiller

(1,056 to 1,839kW)

Standard Version (/K) continued



The new generation of customisable screw compressor chillers has arrived with Mitsubishi Electric's range of **FX2-G05** air cooled chillers. The second generation of this chiller family marks considerable developments in seasonal efficiency, footprint, noise, operating envelope and configuration and customisation.

Key Features & Benefits

- Compressors using low GWP refrigerant
- Wide operating envelope for comfort and process applications
- Exceptionally compact design
- Available with EC Fans including High ESP version

R513A

MODEL			1052	1102	1152	1222	1262	1322	1402	1503	1593	1663	1773	1883
PERFORMANCE - COOLING ONLY [1]														
TOTAL COOLING CAPACITY		kW	1056	1098	1139	1232	1264	1332	1400	1506	1592	1664	1778	1839
TOTAL POWER INPUT		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		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
EN14511 VALUES [1 2]														
TOTAL COOLING CAPACITY		kW	1055	1097	1138	1231	1264	1331	1399	1505	1591	1663	1777	1838
EER		kW/kW	3.04	2.94	3.17	3.07	2.96	3.03	2.91	3.13	3.01	2.96	3.03	3.00
SEASONAL PERFORMANCE [3]														
PRATED,C		kW	1055	1097	1138	1231	1264	1331	1399	1505	1591	1663	1777	1838
SEER			4.56	4.56	4.58	4.60	4.56	4.57	4.58	4.59	4.59	4.58	4.60	4.63
PERFORMANCE ηs		%	180	179	180	181	179	180	180	181	181	180	181	182
HEAT EXCHANGER IN COOLING [1]														
WATER FLOW	User Side	l/s	50.5	52.5	54.5	58.9	60.5	63.7	67.0	72.0	76.1	79.6	85.0	87.9
PRESSURE DROP [2]	User Side	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
ELECTRICAL DATA														
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
F.L.A. [4]	Total	A	713	753	761	761	835	916	916	1009	1089	1129	1137	1137
EXCHANGERS														
MINIMUM WATER FLOW	Evaporator	l/s	25.0	25.0	25.0	25.0	31.1	31.1	31.1	41.7	41.7	41.7	41.7	41.7
MINIMUM WATER CONTENT	Plant	l	3700	3800	4000	4300	4400	4700	4900	5300	5600	5800	6200	6400
FANS														
QUANTITY		No.	12	12	14	14	14	16	16	18	18	18	20	20
AIRFLOW		m3/s	63.8	63.8	74.4	74.4	74.4	85.1	85.1	95.7	95.7	95.7	106.3	106.3
REFRIGERANT CIRCUIT														
COMPRESSORS		No.	2	2	2	2	2	2	2	3	3	3	3	3
CIRCUITS		No.	2	2	2	2	2	2	2	3	3	3	3	3
THEORETICAL REFRIGERANT CHARGE [5]		kg	179	186	195	210	214	232	238	263	271	281	303	318
NOISE LEVELS														
TOTAL SOUND PRESSURE [6]		dB(A)	71	71	71	71	72	73	73	73	73	73	73	73
TOTAL SOUND POWER LEVEL IN COOLING [7]		dB(A)	104	104	104	104	105	106	106	106	106	106	106	106
SIZE AND WEIGHT [8]														
WIDTH		mm	7750	7750	9000	9000	9150	10400	10400	11650	11650	11650	12900	12900
DEPTH		mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT		mm	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640
OPERATION WEIGHT		kg	7870	7900	8430	8500	8860	9470	9610	12050	12110	12120	12710	12720

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. Parameter calculated according to [Regulation (EU) N. 2016/2281].
4. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to databook.
5. Theoretical - refer to serial plate for actual charge volumes.
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. Sound power on the basis of measurement taken in compliance with ISO 9614. Sound power level in cooling, outdoors.
8. Unit in standard configuration, without option accessories.

Eurovent Certified Data

FX2-G05 R513A Air Cooled Chiller

(340 to 1,372kW)

High Efficiency Version (/E)

The new generation of customisable screw compressor chillers has arrived with Mitsubishi Electric's range of **FX2-G05** air cooled chillers. The second generation of this chiller family marks considerable developments in seasonal efficiency, footprint, noise, operating envelope and configuration and customisation.

Key Features & Benefits

- Compressors using low GWP refrigerant
- Wide operating envelope for comfort and process applications
- EC Fans available as an option
- Exceptionally compact design

R513A



CLIMAVENETA

MODEL			0352	0402	0452	0472	0572	0602	0652	0702	0772	0852	0902	1002	1052	1152	1222	1322	1402
PERFORMANCE - COOLING ONLY [1]																			
TOTAL COOLING CAPACITY		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		kW	98.7	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		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	3.414	3.418	3.425	3.361	3.353
EN14511 VALUES [1 2]																			
TOTAL COOLING CAPACITY		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		kW/kW	3.41	3.41	3.43	3.36	3.45	3.44	3.44	3.44	3.36	3.39	3.39	3.41	3.37	3.37	3.38	3.33	3.32
SEASONAL PERFORMANCE [3]																			
PRATED,C		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
SEER			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 ηs		%	182	182	185	183	186	183	183	186	185	185	187	188	186	187	187	183	185
HEAT EXCHANGER IN COOLING [1]																			
WATER FLOW	User Side	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 [2]	User Side	kPa	26.5	34.8	27.7	32.9	41.4	34.1	38.6	43.4	36.3	40	47.2	61.2	48.7	53.2	59.2	39.7	43.5
ELECTRICAL DATA																			
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	400/3/50
F.L.A. [4]	Total	A	236	272	301	301	377	420	448	475	475	531	587	638	688	732	776	776	858
EXCHANGERS																			
MINIMUM WATER FLOW	Evaporator	l/s	13.33	13.33	12.50	12.50	15.83	17.50	17.50	17.50	19.17	19.17	19.17	19.17	25.00	25.00	25.00	41.67	41.67
MINIMUM WATER CONTENT	Plant	l	1200	1400	1600	1700	2000	2200	2300	2400	2600	3000	3200	3500	3700	4000	4200	4600	4800
FANS																			
QUANTITY		No.	6	8	8	8	10	10	11	12	12	13	14	15	16	17	18	18	20
AIRFLOW		m3/s	31.90	42.53	42.53	42.53	53.17	53.17	58.48	63.80	63.80	69.12	74.43	79.75	85.07	90.38	95.70	95.70	106.33
REFRIGERANT CIRCUIT																			
COMPRESSORS		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
THEORETICAL REFRIGERANT CHARGE [5]		kg	65	76	86	94	109	117	126	134	143	160	173	188	200	213	227	244	258
NOISE LEVELS																			
TOTAL SOUND PRESSURE [6]		dB(A)	66	67	67	67	67	67	68	68	68	68	69	69	70	70	70	70	71
TOTAL SOUND POWER LEVEL IN COOLING [7]		dB(A)	98	99	99	99	100	100	101	101	101	101	102	102	103	103	103	103	104
SIZE AND WEIGHT [8]																			
WIDTH		mm	4000	5250	5250	5250	6500	6500	7750	7750	7750	9000	9000	10250	10250	11650	11650	11650	12900
DEPTH		mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT		mm	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640
OPERATION WEIGHT		kg	3660	4270	4390	4440	5660	5960	6420	6550	6640	7530	8060	8570	8920	9430	9550	10490	11150

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. Parameter calculated according to [Regulation (EU) N. 2016/2281].
4. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to databook.
5. Theoretical - refer to serial plate for actual charge volumes.
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. Sound power on the basis of measurement taken in compliance with ISO 9614. Sound power level in cooling, outdoors.
8. Unit in standard configuration, without option accessories.

Eurovent Certified Data

FX2-G04 R1234ze Air Cooled Chiller

(255 to 1,561kW)

High Efficiency Version (/A)

The new generation of customisable screw compressor chillers has arrived with Mitsubishi Electric's range of **FX2-G04** air cooled chillers. The second generation of this chiller family marks considerable developments in seasonal efficiency, footprint, noise, operating envelope and configuration and customisation.

Key Features & Benefits

- High efficiency screw compressors using ultra-low GWP refrigerant
- Wide operating envelope for comfort and process applications
- EC Fans available as an option
- Exceptionally compact design

R1234ze



CLIMAVENETA

MODEL			0252	0302	0322	0352	0402	0452	0512	0572	0652	0772	0902	0972	1052	1152	1243	1373	1503	1593
PERFORMANCE - COOLING ONLY [1]																				
TOTAL COOLING CAPACITY		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		kW	76.0	87.3	94.4	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		kW/kW	3.35	3.32	3.33	3.42	3.33	3.29	3.31	3.33	3.31	3.31	3.27	3.37	3.30	3.33	3.32	3.27	3.33	3.29
EN14511 VALUES [1 2]																				
TOTAL COOLING CAPACITY		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		kW/kW	3.32	3.28	3.31	3.39	3.29	3.25	3.28	3.29	3.27	3.27	3.24	3.33	3.27	3.29	3.28	3.24	3.29	3.25
SEASONAL PERFORMANCE [3]																				
PRATED,C		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
SEER			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 ηs		%	179	178	181	178	179	181	179	182	181	182	181	183	183	185	182	180	184	185
HEAT EXCHANGER IN COOLING [1]																				
WATER FLOW	User Side	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 [2]	User Side	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
ELECTRICAL DATA																				
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	400/3/50	400/3/50
F.L.A. [4]	Total	A	185	215	226	248	286	323	371	393	444	548	609	648	731	768	853	914	964	1024
EXCHANGERS																				
MINIMUM WATER FLOW	Evaporator	l/s	7.22	8.33	9.17	9.17	9.17	9.17	15.83	15.83	15.83	17.50	25.00	19.17	25.00	25.00	31.11	41.67	41.67	41.67
MINIMUM WATER CONTENT	Plant	l	900	1000	1100	1300	1400	1600	1800	2000	2400	2700	3200	3400	3700	4000	4300	4800	5200	5500
FANS																				
QUANTITY		No.	5	5	5	6	6	7	8	8	10	12	12	14	16	16	18	18	19	20
AIRFLOW		m3/s	26.58	26.58	26.58	31.90	31.90	37.22	42.53	42.53	53.17	63.80	63.80	74.43	85.07	85.07	95.70	95.70	101.0	106.3
REFRIGERANT CIRCUIT																				
COMPRESSORS		No.	2	2	2	2	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	2	2	2	2	3	3	3	3
THEORETICAL REFRIGERANT CHARGE [5]		kg	51	55	59	67	72	81	93	98	123	142	152	160	191	195	216	222	232	248
NOISE LEVELS																				
TOTAL SOUND PRESSURE [6]		dB(A)	66	67	67	68	68	68	68	70	69	70	71	71	73	73	73	73	73	73
TOTAL SOUND POWER LEVEL IN COOLING [7]		dB(A)	98	99	99	100	100	100	100	102	102	103	104	104	106	106	106	106	106	106
SIZE AND WEIGHT [8]																				
WIDTH		mm	4000	4000	4000	4000	4000	5250	5250	5250	6500	7750	7750	9000	10400	10400	11650	11650	12900	12900
DEPTH		mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT		mm	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640
OPERATION WEIGHT		kg	3540	3560	3660	3810	4470	4990	5190	5250	6710	7650	7900	8340	9370	9440	11380	12070	12680	12930

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. Parameter calculated according to [Regulation (EU) N. 2016/2281].
4. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to databook.
5. Theoretical - refer to serial plate for actual charge volumes.
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. Sound power on the basis of measurement taken in compliance with ISO 9614. Sound power level in cooling, outdoors.
8. Unit in standard configuration, without option accessories.

Eurovent Certified Data

Commercial Heat Pumps & Chillers Accessories / Optional Extras

DESCRIPTION	MODEL REF.
e-Series	
Fin Guard for EACV-M / EAHV-M	EC-130FG
Ecodan CAHV	
Main Pipework Thermistor	TW-TH16
Differential Pressure Switch for Water Systems	KS10-EP201S
Wired Remote Controller	PAR-W31MAA
Centralised Controller	AE-C400E
Ecodan QAHV	
Main Pipework Thermistor	TW-TH16
Centralised Controller	AE-C400E
Secondary Side Control Circuit Kit	Q-1SCK

IT Cooling

Close Control Computer Room
Air Conditioning Systems





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Computer Room Air Conditioning Systems

Precise Temperature and Humidity Control

More and more businesses are opting to store their data on-site in enterprise data centres, and in the past standard wall mounted split systems may have been an option to cool this type of application.

However, 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.

The perfect match between efficiency and reliability

The need for high sensible cooling and control of both temperature and humidity in critical IT environments has therefore never been higher, and this is where our new range of specialist IT cooling systems makes it possible to keep temperature and humidity constant, even with very wide load variations, ensuring the correct room conditions all year round.

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 that have been designed to fulfil this requirement, reducing operational costs in the process through the use of highly efficient technology.



Mitsubishi Electric Perimeter Cooling Units

Mitsubishi Electric's systems are specifically designed for rooms with a high sensible cooling load that require precise temperature and humidity control. Because of the need for 24 hours a day, 365 days a year operation, high quality components are used and designed to maximise the energy efficiency of the system. Features include:

- Direct Expansion or chilled water versions
- Precise temperature and humidity control
- High Sensible cooling
- Easily integrates into existing and new control networks
- Back-up and rotate functions
- Inverter driven capacity control
- New generation EC PUL (Polymeric Ultralight) high efficiency fans
- Free cooling
- Dual fluid circuits available for the highest reliability



Designing the Optimum IT Cooling System

Two factors need to be taken into account when designing the perfect system for IT cooling: density and capacity. Mitsubishi Electric's wide range of products allows you to choose the correct balance of these factors, in order to meet your individual application requirements.

Mitsubishi Electric's range of dedicated IT cooling equipment includes DX systems specifically designed for IT applications, and for those who are familiar with the benefits and installation processes of our existing Mitsubishi Electric HVAC outdoor units. This opens up new opportunities for the application of DX systems in critical IT environments.





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 -25ºC outdoor air temperature







MSY-TP - INDOOR UNITS		MSY-TP35VF2	MSY-TP50VF2
CAPACITY (kW)	Cooling (nominal)	3.5 (1.5-4.0)	5.0 (1.5-5.7)
	Cooling (UK)	3.47 (1.48-3.96)	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
ErP ENERGY EFFICIENCY CLASS	Cooling	A+++	A++
AIRFLOW (l/s)	Cooling - Lo-Mi-Hi-SHi	168-193-228-273	168-193-228-275
PIPE SIZE mm (in)	Gas	9.52 (3/8")	9.52 (3/8")
	Liquid	6.35 (1/4")	6.35 (1/4")
SOUND PRESSURE LEVEL (dBA)	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)		12.1	12.1
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-TP35VF2	MUY-TP50VF2
SOUND PRESSURE LEVEL (dBA)	Cooling	45	47
SOUND POWER LEVEL (dBA)	Cooling	58	61
WEIGHT (kg)		32.5	32.5
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)	0.76	1.45
	Cooling (UK)	0.64	1.12
STARTING CURRENT (A)		3.6	6.4
SYSTEM RUNNING CURRENT (A)	Cooling [MAX]	3.6 [9.6]	6.4 [9.6]
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) - 7m		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-42MAAB wired remote controller

s-MEXT DX

R32 Computer Room Air Conditioner (CRAC)

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



POWER INVERTER



Ideal for smaller IT Cooling environments, the **s-MEXT** system combines a high quality indoor CRAC with Mitsubishi Electric's Mr Slim Power Inverter condensing unit to create an efficient and precision Direct Expansion (DX) Split System for server rooms, UPS rooms and Mechanical and Technical rooms (MERs & TERs).

R32

CRAC UNITS (Computer Room Air Conditioning)			s-MEXT-G00-DX-F1-006-S	s-MEXT-G00-DX-F1-009-S	s-MEXT-G00-DX-F1-009-S	s-MEXT-G00-DX-F1-013-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	6.8	10.1	10.1	11.9	11.9	22.6	28.0	39.0	42.5
	Sensible	kW	6.2	8.9	8.9	10.2	10.2	19.3	26.2	33.6	35.3
SHR[*2]			0.91	0.88	0.88	0.86	0.86	0.85	0.94	0.86	0.83
SYSTEM EER[*3]	Nominal	kW/kW	4.67	4.30	4.30	3.49	3.49	3.18	2.68	3.58	2.88
REFRIGERANT											
TYPE			R32	R32	R32	R32	R32	R32	R32	R32	R32
NUMBER OF CIRCUITS		No.	1	1	1	1	1	1	1	2	2
CONNECTIONS											
REFRIGERANT PIPE	Gas	Ø Inch	5/8"	5/8"	5/8"	5/8"	5/8"	1"	1"	1"	1"
	Liquid	Ø Inch	3/8"	3/8"	3/8"	3/8"	3/8"	1/2"	1/2"	3/8"	1/2"
CONDENSATE[*4]		Ø mm	19	19	19	19	19	19	19	19	19
POWER SUPPLY CABLE[*5]		No. x mm²	3G1.5	3G1.5	3G1.5	3G1.5	3G1.5	3G1.5	5G1.5	5G1.5	5G1.5
ELECTRICAL DATA											
POWER SUPPLY		V/ph/Hz	230/1/50	230/1/50	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 (SA)		A	2	2	2	2.8	2.8	3.3	3.8	3.8	3.8
MAX ABSORBED CURRENT (FLA)		A	27.8	27.8	27.8	27.6	27.6	35.9	28.8	28.8	28.8
FANS (EC)											
QUANTITY		No.	1	1	1	1	1	2	1	1	1
AIRFLOW		m³/h	2000	2500	2500	2800	2800	5000	7600	8800	10000
NOMINAL ESP[*6]		Pa	20	20	20	20	20	20	20	20	20
POWER INPUT[*7]		kW	0.21	0.35	0.35	0.47	0.47	0.70	0.64	1.43	1.96
ELECTRICAL HEATERS											
STEPS		No.	2	2	2	2	2	3	3	3	3
POWER INPUT		kW	2.6	2.6	2.6	2.6	2.6	3.9	9.0	9.0	9.0
HUMIDIFIER											
CAPACITY		kg/h	3.0	3.0	3.0	3.0	3.0	3.0	8.0	8.0	8.0
POWER INPUT		kW	2.3	2.3	2.3	2.3	2.3	2.3	6.0	6.0	6.0
SOUND[*8]											
SOUND PRESSURE LEVEL		dB(A)	53	57	57	61	61	60	60	63	67
SOUND POWER LEVEL		dB(A)	69	73	73	77	77	76	76	79	83
FILTERS											
EFFICIENCY CLASS	ISO EN16890	COARSE	60%	60%	60%	60%	60%	60%	60%	60%	60%
SIZE AND WEIGHT											
FRAME SIZE			F1	F1	F1	F1	F1	F2	F3	F3	F3
WIDTH		mm	600	600	600	600	600	1000	1000	1000	1000
DEPTH		mm	500	500	500	500	500	500	890	890	890
HEIGHT		mm	1980	1980	1980	1980	1980	1980	1980	1980	1980
NET WEIGHT	Upflow (O)	kg	103	106	106	110	110	165	237	237	237
	Downflow (U)	kg	110	115	115	120	120	175	247	247	247

OUTDOOR UNITS[*9]			PUZ-ZM60VHA3	PUZ-ZM100VDA2	PUZ-ZM100YDA2	PUZ-ZM125VDA2	PUZ-ZM125YDA2	PUZ-ZM250YKA3	PUZ-ZM250YKA3	PUZ-ZM200YKA3	PUZ-ZM250YKA3
QUANTITY OF OUTDOOR UNITS			1	1	1	1	1	1	1	2	2
INSTALLATION											
PIPEWORK SEPARATION[*10]	Standard		30	40	40	40	40	30	30	30	30
	Max[*11]		55	100	100	100	100	100	100	100	100
ELECTRICAL DATA											
POWER SUPPLY		V/ph/Hz	230/1/50	230/1/50	400/3+N/50	230/1/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50
POWER INPUT	Nominal	kW	1.25	2	2	2.94	2.94	6.41	9.67	4.73	6.41
MAX OPERATING CURRENT		A	19.0	27.2	8.7	27.2	9.7	22.5	22.5	22.5	22.5
POWER SUPPLY CABLE		No. x mm²	3G4	3G4	5G1.5	3G4	5G1.5	5G6	5G6	5G6	5G6
SOUND											
SOUND PRESSURE LEVEL[*12]			53	44	44	50	50	62	62	62	62
SOUND POWER LEVEL			67	63	63	70	70	77	77	77	77
SIZE AND WEIGHT											
WIDTH		mm	950	1110	1110	1050	1050	1050	1050	1050	1050
DEPTH		mm	355	505	505	370	370	370	370	370	370
HEIGHT		mm	943	870	870	1338	1338	1338	1338	1338	1338
WEIGHT		kg	70	107	114	116	125	135	135	137	135

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. EER = Energy Efficiency Ratio.
4. Rubber pipe - referred to internal diameter.
5. Minimum section.
6. External Static Pressure.
7. Corresponding to the nominal ESP=20Pa.
8. As per ISO 3744. Sound pressure level on air return at 1m.
9. All data refers to a single outdoor unit / circuit.
10. In one direction.
11. Additional refrigerant required for pipework separation greater than the standard.
12. Average sound pressure level, at 1m distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.

x-MEXT DX

R410A Computer Room Air Conditioner (CRAC)







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

R410A

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	Centrifugal EC	Centrifugal EC	Centrifugal EC	Centrifugal EC	Centrifugal EC	Centrifugal EC	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	R410A	R410A	R410A	R410A	R410A	R410A	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%	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	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	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	1,600	2,550	2,550	2,550	2,550
	Depth	mm	885	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	1,980
NET WEIGHT	Upflow [over]	kg	363	372	375	459	502	503	799	806	915	916
	Downflow [under]	kg	372	380	383	477	520	521	839	846	955	957
CONNECTIONS*5												
REFRIGERANT PIPE DIAMETER	Gas	Ø mm	18	22	22	22	28	28	2 x 22	2 x 22	2 x 28	2 x 28
	Liquid	Ø mm	16	18	18	18	18	18	2 x 18	2 x 18	2 x 18	2 x 18
CONDENSATE DRAIN*6		Ø mm	19	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 TYPE*8			Axial EC	Axial EC	Axial EC	Axial EC	Axial EC	Axial EC	Axial EC	Axial EC	Axial EC	Axial EC
FANS		No.	1	2	2	2	3	4	2	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	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	58	59
DIMENSIONS*9	Width	mm	1,140	1,140	1,140	1,140	1,140	2,200	1,140	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	2,600
	Height	mm	1,168	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	Ømm	18	22	22	22	28	28	22	22	22	28
REFRIGERANT PIPE DIAMETER	Liquid	Ømm	16	18	18	18	22	22	18	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 ISO3744. Non-binding value obtained from the sound power level.

*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 [GWP_{100} 2088]> fluorinated greenhouse gas.

w-MEXT

Chilled Water Computer Room Air Handler (CRAH)

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	Centrifugal EC	Centrifugal EC	Centrifugal EC	Centrifugal EC	Centrifugal EC	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%	60%
SOUND LEVEL									
PRESSURE LEVEL*5		dB(A)	43	56	58	60	53	60	62
POWER LEVEL*5		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	Upflow [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 Computer Room Air Handler (CRAH)





High precision air conditioners are ideal for applications where high sensible cooling and 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	2
AIRFLOW (m³/h)		10,800	13,100	16,350	20,000
EXTERNAL STATIC PRESSURE (Pa)		20	20	20	20
MAX EXTERNAL STATIC PRESSURE (Pa)		297	194	532	458
POWER INPUT (kW)*4		2.20	2.15	2.90	3.47
AIR FILTERS	No.	2	3	3	4
	Extended filtering surface (m²)	1.71	2.07	2.59	3.16
	Efficiency [ISO EN 16890] (COARSE)	60%	60%	60%	60%
CHILLED WATER FLOW RATE (l/s)		1.96	2.30	3.16	3.51
WATERSIDE PRESSURE DROP (kPa)	Coil + 2-Port Valve	34.1	37.3	42.9	35.6
SOUND LEVEL dB(A) (ISO3774)*5	Downflow - Power / Pressure	73 / 57	74 / 57	73 / 56	75 / 58
	Upflow - Power / Pressure	77 / 61	78 / 61	77 / 60	79 / 62
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)		2.90	2.70	5.40	5.80
MAX RUNNING CURRENT (A)		4.4	4.2	8.4	8.9
DIMENSIONS (mm)	Width	1085	1305	1630	1875
	Depth	930	930	930	930
	Height	1925	1980	1980	1980
NET WEIGHT (kg)	Downflow	321	345	470	531
	Upflow	329	379	428	483
CONNECTIONS	Water Inlet / Outlet ISO 7/1 (Ø inch)	1 1/4"	1 1/2"	2"	2"
	Condensate (Ømm)*6	19	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	3
AIRFLOW (m³/h)		24,200	28,300	33,100	37,150	37,150
EXTERNAL STATIC PRESSURE (Pa)		20	20	20	20	20
MAX EXTERNAL STATIC PRESSURE (Pa)		247	237	309	207	207
POWER INPUT (kW)*4		3.98	6.22	6.42	6.44	6.44
AIR FILTERS	No.	4	5	6	6	6
	Extended filtering surface (m²)	3.83	4.47	5.24	6.54	6.54
	Efficiency [ISO EN 16890] (COARSE)	60%	60%	60%	60%	60%
CHILLED WATER FLOW RATE (l/s)		4.38	5.33	6.04	7.03	9.74
WATERSIDE PRESSURE DROP (kPa)	Coil + 2-Port Valve	31.7	48.6	47	66.7	62.2
SOUND LEVEL dB(A) (ISO3774)*5	Downflow - Power / Pressure	76 / 59	79 / 61	80 / 62	79 / 61	79 / 61
	Upflow - Power / Pressure	80 / 63	83 / 65	81 / 63	N/A	N/A
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
MAX POWER ABSORBED (kW)		5.40	8.10	8.70	8.10	8.10
MAX RUNNING CURRENT (A)		8.3	12.6	13.3	12.5	12.5
DIMENSIONS (mm)	Width	2175	2499	2899	3510	3510
	Depth	930	930	930	930	930
	Height	1980	1980	1980	1980	1980
NET WEIGHT (kg)	Downflow	589	660	753	900	970
	Upflow	535	598	679	N/A	N/A
CONNECTIONS	Water Inlet / Outlet ISO 7/1 (Ø inch)	2 1/2"	2 1/2"	3"	3"	3"
	Condensate (Ømm)*6	19	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.

w-MEXT-XL

Extra Large Computer Room Air Handler (CRAH)



Mitsubishi Electric's **w-MEXT-XL** is a purpose built, extra large CRAH, specifically designed to meet the needs of large colocation and hyperscale data centers.

With a capacity ranging from 193kW to 336kW, in four module sizes, the w-MEXT-XL is available in three performance versions with a perfectly matched heat exchanger designed for 10K, 12K and 15K Delta T conditions, giving it the best in class efficiency. Additionally the w-MEXT-XL can be used with downflow or rear-flow configurations with options for hydraulic connections (version dependent).

An array of high quality industry leading options are available to the w-MEXT-XL including; harmonic filters for EC fans to provide a guaranteed THDi < 5%, fast restart using inbuilt Ultracap with new embedded logic for ultra-quick cooling restoration, EPIV valves with advanced monitoring and Automatic Transfer Switch (ATS) to automatically switch to an alternative power supply and more.

Key Features & Benefits

- Design purposefully for meeting hyperscale and large colocation datacenters needs
- Exceptional performance with best in class efficiency
- Uniquely versatile with flexible hydraulic connections, multiple air delivery versions and a range of sizes
- Options for high quality EC fans fitted with harmonic filters for THDi < 5%
- Available with an extensive array of accessories such as Fast Restart and EPIV Valves
- Designed for effortless maintenance with frontal access to all components, easy filter changes and sliding EC fans

CRAH UNITS (Computer Room Air Handler)			R 150			R 200			R 250			R 300		
WORKING CONDITIONS			MDT	HDT	SHDT	MDT	HDT	SHDT	MDT	HDT	SHDT	MDT	HDT	SHDT
PERFORMANCE														
COOLING CAPACITY	Total	kW	199	198	224	220	221	262	297	281	324	303	302	336
SHR*1	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	Nominal		18.5	18.3	20.6	22.1	21.5	25.9	20.6	19.6	22.8	21.7	21.5	23.9
FANS														
AIRFLOW		m^3/h	49,500	48,800	48,800	52,700	52,500	51,700	66,000	65,500	65,000	66,500	65,700	66,000
FAN TYPE			EC Radial	EC Radial	EC Radial	EC Radial	EC Radial	EC Radial	EC Radial	EC Radial	EC Radial	EC Radial	EC Radial	EC Radial
FANS		No.	3	3	3	3	3	3	4	4	4	4	4	4
POWER INPUT		kW	10.80	10.80	10.80	9.97	10.30	10.10	14.40	14.40	14.20	14.00	14.10	14.10
MAX EXTERNAL STATIC PRESSURE		Pa	46	46	46	64	47	68	42	48	57	60	60	60
WATER CIRCUIT														
FLOW RATE		l/s	4.79	3.97	3.59	5.29	4.42	4.2	7.12	5.63	5.19	7.27	6.05	5.38
PRESSURE DROP		kPa	128	87.8	73.3	134	92.9	99.1	156	103	111	145	128	140
FILTERS														
FILTERS		No.	6	6	6	8	8	8	8	8	8	8	8	8
AVAILABLE STATIC PRESSURE		Pa	522	540	540	403	427	434	526	530	530	497	513	508
NOISE DATA														
TOTAL SOUND PRESSURE*2		dB(A)	62	62	62	63	63	64	61	61	61	60	60	60
SOUND POWER		dB(A)	81	81	81	82	82	83	80	80	80	79	79	79
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*3	FLA	A	18.9	18.9	18.9	18.9	18.9	18.9	25.2	25.2	25.2	25.2	25.2	25.2
DIMENSIONS AND WEIGHT														
FRAME SIZE			H7P	H7P	H7P	H8P	H8P	H8P	H9P	H9P	H9P	H10P	H10P	H10P
WIDTH		mm	2,550	2,550	2,550	3,000	3,000	3,000	3,400	3,400	3,400	3,400	3,400	3,400
DEPTH		mm	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070
HEIGHT		mm	2,925	2,925	2,925	2,925	2,925	2,925	2,925	2,925	2,925	2,925	2,925	2,925
WEIGHT		kg	991	1,051	1,075	1,086	1,161	1,240	1,323	1,343	1,433	1,441	1,462	1,558

Notes:
MDT (Medium Delta T): Indoor conditions: Return air temperature 37°C - Relative humidity 25%. Chilled water: Inlet 20°C - Outlet 30°C - 0% Glycol.
HDT (High Delta T): Indoor conditions: Return air temperature 37°C - Relative humidity 25%. Chilled water: Inlet 20°C - Outlet 32°C - 0% Glycol.
SHDT (Super High Delta T): Indoor conditions: Return air temperature 40°C - Relative humidity 20%. Chilled water: Inlet 20°C - Outlet 35°C - 0% Glycol.

*1: SHR = Sensible cooling capacity gross / Total cooling capacity gross.

*2: Average sound pressure level, at 1m distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.

*3: The electric data indicated refer only to the standard indoor unit without accessories.

Data table shows rear-flow design. Downflow details and performance available on request.

MEWALL

Data Centre Fan Wall



Mitsubishi Electric's new and improved **MEWALL** brings performance and reliability at scale. 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. Available in 2 sizes for 350kW to 400kW applications, it is available with a variety of options including an option to replace the side panels with filters to lower the airflow pressure drop and further improve on efficiency.

Key Features & Benefits

- State of the art EC fans with high efficiency air intake grilles
- High quality, low pressure drop filters easily accessible from the front
- Improved performance with side filter version
- Eliminates the need for raised floors in your white space
- Highly efficient EC fan combined with efficient heat exchanger
- Operates at modern hyperscale conditions
- Easy to service - fully accessible from the front
- Advanced control and networking options
- Available with variety of options including a variety of hydronic control valves, harmonic filters, fast restarts, touchscreen display and more

MEWALL			402	462
FRAME			3B2	3H2
PERFORMANCE *1				
COOLING CAPACITY	Total	kW	430	446
SENSIBLE HEAT RATIO (SHR)			1	1
ENERGY EFFICIENCY RATIO (EER) *2		kW/kW	17.8	19.2
FANS				
FANS TYPE			EC RADIAL	EC RADIAL
QUANTITY		No.	8	8
AIRFLOW		m^3/hr	129,000	134,000
EXTERNAL STATIC PRESSURE (ESP)		Pa	50	50
FANS POWER INPUT		kW	24.2	23.2
CHILLED WATER CIRCUIT *1				
WATER FLOW		l/s	8.61	8.93
TOTAL PRESSURE DROP *3		kPa	134	118
FILTERS				
QTY		No.	1	1
NOISE DATA				
TOTAL SOUND POWER		dB(A)	88	88
TOTAL SOUND PRESSURE *4		dB(A)	68	68
ELECTRICAL				
POWER SUPPLY		V/ph/Hz	400 / 3+N / 50	400 / 3+N / 50
MAX ABSORBED CURRENT (FLA)		A	44.8	44.8
DIMENSIONS AND WEIGHT				
DIMENSIONS *5	Width	mm	3,600	3,600
	Depth	mm	1,600	1,600
	Height	mm	3,500	4,000
WEIGHT *5		kg	2,460	2,545

Notes:
*1: Gross Total Values Shown. Operating Conditions: Return Air Temperature: 37°C / Relative Humidity: 25% / Water Inlet: 20°C / Water Delta T: 12K / Glycol: 0%.
*2: EER for indoor unit only.
*3: Pressure drop includes heat exchanger and hydronic valve.
*4: Average sound pressure level, at 1m distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.
*5: Unit in standard configuration, without optional accessories.

m-MRAC / m-MROW

R410A Multi Density Close Coupled Control System





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 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

R410A

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)*1	Total	10.6	16.6	28.6
	Sensible	9.6	15.7	27.4
SHR*2		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)*3		0.18	0.34	0.85
REFRIGERANT		R410A	R410A	R410A
REFRIGERANT CIRCUITS (n°)		1	1	1
AIR FILTERS	NO.	2	2	2
	Extended filtering surface (m^2)	0.35	0.35	0.35
	Efficiency [ISO EN 16890] (COARSE)	40%	40%	40%
SOUND LEVEL [ISO 3744] (dB(A))*4	Pressure Level	63.5	64.5	70.5
	Power Level	79	80	86
POWER SUPPLY (V / Ph / Hz)		230 / 1 / 50	230 / 1 / 50	230 / 1 / 50
ABSORBED CURRENT (A)*3		0.8	1.5	4
STARTING CURRENT (A)		2.9	5.8	7.3
DIMENSIONS (mm)	Width	300	300	300
	Depth (MROW / MRAC)	1000 / 1200	1000 / 1200	1000 / 1200
	Height	2,085	2,085	2,085
NET WEIGHT (kg)	In-Row	175	190	193
	Enclosure	185	200	203
CONNECTIONS	Refrigerant pipes diameter - Gas (Ø Inch)	3/4"	7/8"	1"
	Refrigerant pipes diameter - Liquid (Ø Inch)	1/2"	5/8"	3/4"
	Condensate (Ømm)*5	16	16	16
	Power supply wiring cable (no. x mm^2)*6	3G1.5	3G1.5	3G1.5

OUTDOOR UNITS		m-MOCU G02 050	2 X m-MOCU G02 050
RATED COOLING CAPACITY	kW	50	50 x 2
SYSTEM EER*2	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*7)	50 (40*7)
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	45	45
	Min Temp	-15	-15

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 [GWP_{100} 2088]> fluorinated greenhouse gas.

NR2-FC-G06-Z

R454B Free-Cooling Chiller

(359 to 895kW)

The **NR2-FC-G06-Z** is our outdoor chiller with integrated free-cooling utilising hermetic rotary Scroll compressors with R454B refrigerant, axial-flow fans, shell and tubes exchanger and an electronic expansion valve.

The range is composed of units equipped with four, five and six compressors in multi-circuit configuration. Available in 14 sizes from 359kW to 895kW cooling capacity and operating on R454B low GWP refrigerant, makes the NR2-FC-G06-Z best in class. The NR2-FC-G06-Z is available as four different configurations for noise and efficiency performance (K, SL-K, A, SL-A), with a wide operating range from 5°C to +24°C evaporator leaving water temperatures (ELWT) and ambient temperatures from 48°C to -30°C. The NR2-FC-G06-Z can also be fitted with a range of options including Soft Start, energy meters, BEMS interface cards and on-board hydronic kits.

Key Features & Benefits

- Best-in-class seasonal efficiency in a compact footprint
- Available in 'No Glycol' versions
- High efficiency scroll compressors providing a multi refrigeration circuit
- EC Fans available as an option for improved efficiency (standard on A version)
- Four different configurations for noise and efficiency performance available (K, SL-K, A, SL-A)
- Lower GWP refrigerant R454B
- Available options include; inbuilt hydronic pumps, energy meters, Refrigerant leak detection, dual power supply and many more
- Microchannel MCHX for condenser coil and Cu/Al for free cooling coil
- Fast Restart fitted as standard

R454B



NR2-FC-G06-Z /A			0384	0414	0434	0462	0494	0524	0554	0594	0624	0685	0746	0836	0866	0926
MECHANICAL COOLING (30°C / 20°C) *1																
COOLING CAPACITY		kW	359.8	388.7	416.7	444.1	471.0	501.6	531.8	569.6	607.7	660.6	699.5	805.6	835.8	895.0
COMPRESSOR POWER INPUT		kW	76.53	79.48	82.67	86.03	89.52	96.89	104.5	108.7	113.1	122.3	137.2	153.4	160.9	176.3
TOTAL POWER INPUT		kW	86.70	91.40	96.30	101.3	106.5	113.9	121.5	127.4	133.5	146.1	161.0	180.6	188.1	203.5
EER		kW/kW	4.15	4.25	4.33	4.38	4.42	4.40	4.38	4.47	4.55	4.52	4.35	4.46	4.44	4.40
TOTAL FREE-COOLING (30°C / 20°C) *2																
TOTAL FREE-COOLING OCCURS AT		°C	10.7	11.3	11.8	12.0	12.3	12.0	11.6	11.7	11.9	12.3	11.9	11.9	11.7	11.1
COOLING CAPACITY		kW	359.8	388.7	416.7	444.1	471.0	501.6	531.8	569.6	607.7	660.6	699.5	805.6	835.8	895.0
TOTAL POWER INPUT		kW	10.20	11.90	13.60	15.30	17.00	17.00	17.00	18.70	20.40	23.80	23.80	27.20	27.20	27.20
EER		kW/kW	35.27	32.66	30.64	29.03	27.71	29.51	31.28	30.46	29.79	27.76	29.39	29.62	30.73	32.90
MECHANICAL COOLING (16°C / 10°C) *3																
COOLING CAPACITY		kW	279.4	301.2	322.3	343.0	363.3	387.2	410.7	439.3	468.1	508.8	540.4	621.3	644.9	691.2
COMPRESSOR POWER INPUT		kW	73.56	76.84	80.32	83.94	87.66	94.65	101.8	106.5	111.3	120.4	133.7	150.3	157.3	171.7
TOTAL POWER INPUT		kW	83.80	88.70	93.90	99.20	104.7	111.6	118.8	125.2	131.7	144.2	157.5	177.5	184.5	198.9
EER		kW/kW	3.33	3.39	3.43	3.45	3.47	3.47	3.45	3.50	3.55	3.52	3.43	3.50	3.49	3.47
TOTAL FREE-COOLING (16°C / 10°C) *4																
TOTAL FREE-COOLING OCCURS AT		°C	2.9	3.5	3.9	4.1	4.3	4.0	3.7	3.8	4.0	4.3	4.0	4.0	3.8	3.3
COOLING CAPACITY		kW	279.4	301.2	322.3	343.0	363.3	387.2	410.7	439.3	468.1	508.8	540.4	621.3	644.9	691.2
TOTAL POWER INPUT		kW	10.20	11.90	13.60	15.30	17.00	17.00	17.00	18.70	20.40	23.80	23.80	27.20	27.20	27.20
EER		kW/kW	27.39	25.31	23.70	22.42	21.37	22.78	24.16	23.49	22.95	21.38	22.71	22.84	23.71	25.41
SEASONAL EFFICIENCY IN COOLING (REG. EU 2016/2281) *8																
PRATED,C		kW	262.2	282.4	301.9	321.3	340.2	362.7	384.8	411.5	438.3	476.3	506.2	581.9	604.1	647.8
SEPR HT			7.20	7.24	7.18	7.16	7.10	7.12	7.24	7.26	7.31	7.33	7.39	7.48	7.40	7.59
ELECTRICAL DATA																
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	400/3/51	400/3/52	400/3/53	400/3/54	400/3/55
MAX F.L.A.*7	Total	A	201	217	233	249	265	280	295	312	329	365	395	445	459	488
EXCHANGERS																
MINIMUM WATER FLOW IN COOLING	Evaporator	l/s	6.66	6.66	6.66	8.33	8.33	8.61	8.61	9.44	9.44	9.44	13.69	13.69	13.69	13.69
MINIMUM SYSTEM VOLUME		l	940	1020	1100	1180	1250	1320	1400	1500	1600	1750	1850	2120	2200	2350
REFRIGERANT CIRCUIT																
COMPRESSORS		No.	4	4	4	4	4	4	4	4	4	5	6	6	6	6
CIRCUITS		No.	2	2	2	2	2	2	2	2	2	2	2	2	3	2
THEORETICAL REFRIGERANT CHARGE		kg	36.0	40.5	46.8	58.5	60.3	60.3	63.0	69.3	72.9	75.6	77.4	80.1	80.1	80.1
NOISE LEVELS																
TOTAL SOUND PRESSURE *5		dB(A)	63	63	64	63	64	64	64	64	65	65	65	65	66	66
TOTAL SOUND POWER LEVEL IN COOLING *6		dB(A)	95	95	96	96	97	97	97	97	98	98	98	98	99	99
SIZE AND WEIGHT *7																
WIDTH		mm	3905	5080	5080	6255	6255	6255	6255	7430	7430	8605	8605	9780	9780	9780
DEPTH		mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT		mm	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560
OPERATION WEIGHT		kg	3160	3580	3770	4600	4790	4820	4840	5220	5400	6140	6610	7170	7180	7210

Notes:

*1 Gross Value. Plant (side) cooling exchanger water (in/out) 30.00°C/20.00°C;
Source (side) heat exchanger air (in) 35,0°C; Ethylene glycol 30%.
*2 Gross Value. Plant (side) cooling exchanger water (in/out) 30.00°C/20.00°C; Ethylene glycol 30%.
*3 Gross Values. Plant (side) cooling exchanger water (in/out) 16.00°C/10.00°C;
Source (side) heat exchanger air (in) 35,0°C; Ethylene glycol 30%.
*4 Gross Values. Plant (side) cooling exchanger water (in/out) 16.00°C/10.00°C; Ethylene glycol 30%.
*5 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.
*6 Sound power on the basis of measurements taken in compliance with ISO 9614.
*7 Unit in standard configuration, without optional accessories.
*8 Seasonal energy efficiency of high temperature process cooling: REGULATION (EU) N. 2016/2281.

General - Other models are available to suit noise or efficiency (K, SL-K, SL-A) including No Glycol (NG) hydraulic version. Models shown here are high efficiency "A" versions

TR2-FC-G04-Z

R1234ze Free-Cooling Chiller

(1,216 to 1,819kW)

The **TR2-FC-G04-Z** is a high efficiency free-cooling chiller designed for hyperscale and colocation data centres. Available in both standard and No Glycol (-NG) versions, it features oil-free centrifugal compressors optimised for low GWP R1234ze refrigerant, operating in 3 modes: total free-cooling, hybrid free-cooling and mechanical cooling. The innovative new free-cooling control logic enhances the system's EER throughout the year, providing up to 20% annual energy savings compared to previous control logics.

Key Features & Benefits

- Best-in-class Energy Efficiency Ratio (EER)
- Low GWP R1234ze refrigerant (IPCC AR5)
- Highly efficient components throughout: magnetic levitation centrifugal compressors, large diameter EC fans and advanced control and optimisation algorithms
- Designed for chilled water with higher temperatures up to 26°C and high ΔT of up to 20K, ideal for the modern hyperscale data centre
- V-block design improves maintenance and increases the cooling density with the patented Reduced Exergy Depletion (R.E.D) Cooler
- Wide set of new options: fan diffusers, discharge air plenum, fast restart with ultracap, and energy monitoring amongst many others

R1234ze



FREE-COOLING CHILLER			1232	1653	1803	1232	1653	1803
VERSION			-	-	-	-NG	-NG	-NG
PERFORMANCE								
MECHANICAL COOLING - GROSS VALUE*1								
COOLING CAPACITY		kW	1216	1619	1771	1249	1662	1819
TOTAL POWER INPUT		kW	252.1	338.4	381.9	253.0	339.6	383.3
EER		kW/kW	4.82	4.78	4.64	4.94	4.89	4.75
FREE-COOLING @ 10°C AMBIENT - GROSS VALUE*2								
COOLING CAPACITY		kW	1178	1507	1654	1042	1341	1466
FREE-COOLING KW / NOMINAL KW		%	97	93	93	83	81	81
TOTAL FREE-COOLING (GROSS VALUE)*2								
TOTAL FREE-COOLING AMBIENT*3		°C	9.3	8.4	8.4	5.6	4.7	4.7
TOTAL POWER INPUT		kW	22.4	28.0	30.8	27.9	33.5	36.3
EER		kW/kW	54.29	57.82	57.50	44.77	49.61	50.11
HEAT EXCHANGER IN COOLING*1								
GLYCOL		%	30	30	30	0	0	0
WATER FLOW	User Side	l/s	26.7	35.6	38.9	25.0	33.3	36.4
PRESSURE DROP	User Side	kPa	74.8	97.5	100	71.2	88.9	94.4
ELECTRICAL DATA								
POWER SUPPLY		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
F.L.A.*4	Total	A	537	787	796	537	787	796
EXCHANGERS								
MINIMUM WATER FLOW	Evaporator	l/s	16.7	20.8	22.2	16.7	20.8	22.2
MINIMUM WATER CONTENT	Plant	l	5000	5000	5000	5000	5000	5000
FANS								
QUANTITY		No.	16	20	22	16	20	22
AIRFLOW		m^3/s	78.4	104.2	113.1	78.4	104.2	113.1
REFRIGERANT CIRCUIT								
COMPRESSORS		No.	2	3	3	2	3	3
CIRCUITS		No.	1	1	1	1	1	1
REFRIGERANT			R1234ze	R1234ze	R1234ze	R1234ze	R1234ze	R1234ze
REFRIGERANT CHARGE*5		kg	680	840	860	680	840	860
SOUND LEVELS								
TOTAL SOUND PRESSURE*6		dB(A)	68	69	70	68	69	70
TOTAL SOUND POWER LEVEL IN COOLING*7		dB(A)	101	102	103	101	102	103
DIMENSIONS & WEIGHT*8								
WIDTH		mm	9500	11700	12800	9500	11700	12800
DEPTH		mm	2260	2260	2260	2260	2260	2260
HEIGHT		mm	2500	2500	2500	2500	2500	2500
OPERATION WEIGHT		kg	10700	12700	14000	11800	14100	15400

Notes:
*1 Plant (side) cooling exchanger water (in/out) 32°C/20°C; Source (side) heat exchanger air (in) 35°C.
*2 Plant (side) cooling exchanger water (in/out) 32°C/20°C.
*3 Maximum ambient temperature where free-cooling capacity >= nominal cooling capacity, as stated above.
*4 Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to Databook.
*5 Theoretical - refer to serial plate for actual charge volumes.
*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 Sound power on the basis of measurement taken in compliance with ISO 9614. Sound power level in cooling, outdoors.
*8 Unit in standard configuration, without optional accessories.

IT Cooling Accessories / Optional Extras

DESCRIPTION	MODEL REF.
MSY-TP / MUY-TP	
Air outlet guide for MUY-TP35/50VF2	MAC-881SG
Standard wired remote controller	PAR-42MAAB
Interface for M-NET, MA remote controller (PAR-42MAAB), on/off input and run/fault output	MAC-334IF-E
Interface for Wi-Fi connection to MELCloud Home service	MAC-597IF-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 / w-MEXT-XL	
Modbus Serial card (RS485) for w-MEXT, w-NEXT and w-MEXT-XL	
BACNet TCP/IP Ethernet card (RJ45) for w-MEXT, w-NEXT and w-MEXT-XL	
Floor stand with rubber holders (255-350mm) for w-MEXT and w-NEXT	
Floor stand with rubber holders (355-450mm) for w-MEXT and w-NEXT	
Floor stand with rubber holders (400-510mm) for w-MEXT and w-NEXT	
Electric heater for w-MEXT and w-NEXT	
Steam humidifier for w-MEXT and w-NEXT	
Air discharge plenum with 3 grilles for w-MEXT and w-NEXT	
Inlet damper with actuator for w-MEXT, w-NEXT and w-MEXT-XL	
m-MRAC / m-MROW	
Multi Density Tee & Adaptor	

Refrigeration

Energy Efficient Refrigeration Units





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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 CO_2 refrigerant with a low global-warming potential of 1, means that CO_2 emissions are significantly reduced when compared to conventional systems that use HFC refrigerants.







ECOV Series - Key Technologies

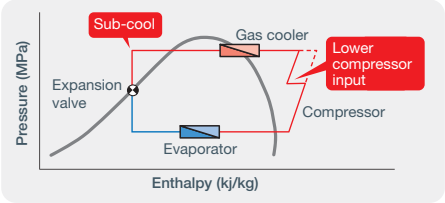
A. Compressor

Inverter-driven

With the use of an inverter driven single stage scroll compressor for the ECOV-X37/55VA and an inverter driven 2 stage rotary compressor for the ECOV-X15VA, the energy efficiency of the system is higher than that of a fixed speed non-inverter system.

Optimised refrigerant circuit

The ECOV Series adopts an optimal compressor for each capacity. The ECOV-X15VA uses a two-stage compressor, while the ECOV-X37/55VA utilises a single-stage compressor with a middle pressure injection circuit.



These mechanisms enable the gas cooler to achieve greater sub-cooling with maximum efficiency.

B. Heat Exchanger (Rear side)

Flat aluminum tube

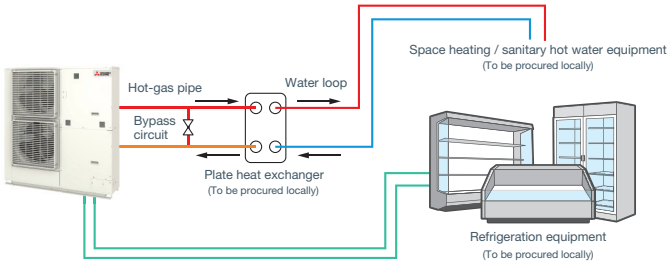
The use of a MFC* aluminum flat tube heat exchanger and corrugated fins increases the contact area with air and refrigerant, resulting in greater heat-exchanging efficiency. Anti-corrosion coating against salt damage is applied to the heat exchanger as a standard feature.

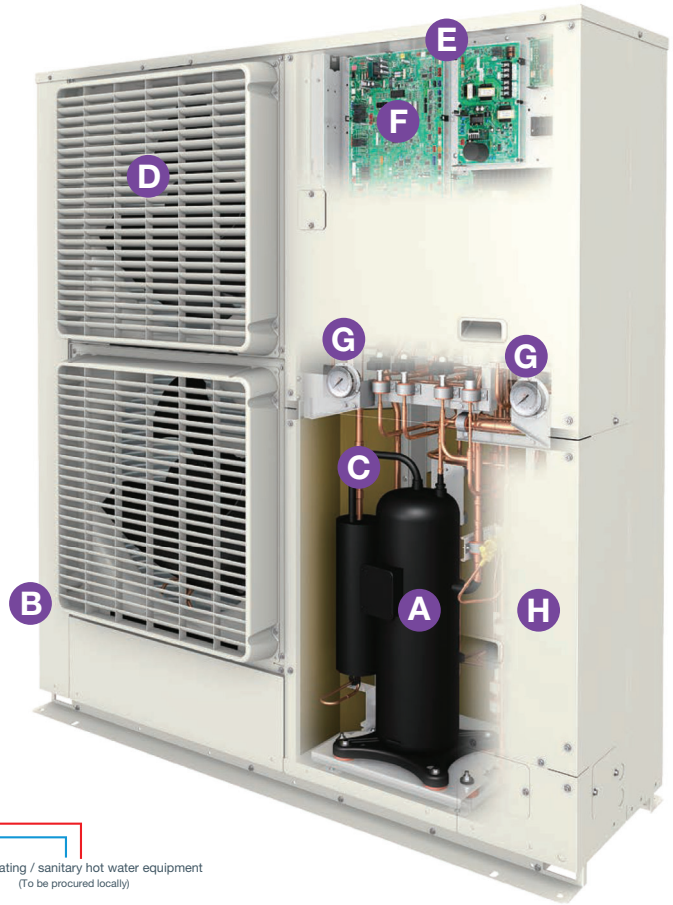


*MFC: Multi Flow Condenser

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

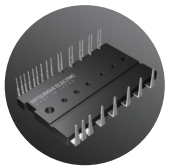
DC-driven inverter fan(s) are equipped in each unit for precise control, to optimise system efficiency and minimise noise levels.



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 enabling quick diagnosis.

G. Pressure Gauges

Gauges displaying the low and high pressure values.

H. Liquid Receiver / Accumulator

A large liquid receiver and accumulator inside the unit provides the ability to easily control the refrigerant charge and ensure durability against liquid return, which leads to easy on-site service and stable operation.

ECOV Series R744 Natural Refrigerant Condensing Unit





Notes:

*1 Measurement conditions: Ambient temperature: 32°C, Evaporation temperature: -10°C, Compressor operating frequency: 70Hz for ECOV-X15VA / 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: 70Hz for ECOV-X15VA / 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: 70Hz for ECOV-X15VA / 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.
*8 Use the included reducer to connect the liquid piping.

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 CO_2 (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 1.29kW to 16.7kW at an ambient temperature of 35ºC, the ECOV Series is an ideal choice for small retail shops, convenience stores and cold storage rooms, including distribution centres.

Key Features & Benefits

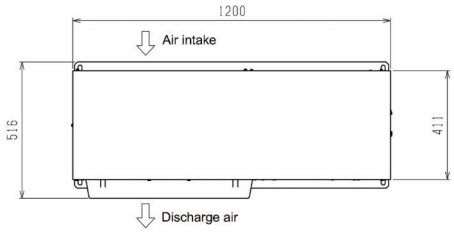
- Utilises natural CO_2 refrigerant to help meet key CSR targets
- Wide evaporating temperature range between -45ºC and -5ºC, meaning units can be used for chilling or freezing
- Modbus compatibility allows the units to easily communicate with various monitoring systems
- Heat recovery port enables rejected 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, 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 gas cooler and DC inverter fan to improve energy saving performance
- Small footprint and horizontal air flow structure, facilitating installation in small spaces and urban environments
- The ECOV-X15VA features a pre-alarm function which enables an alarm to be activated when a risk of fault is detected, preventing malfunction and downtime of unit
- The ECOV-X15VA features three additional operation modes for easy maintenance and further energy savings

R744

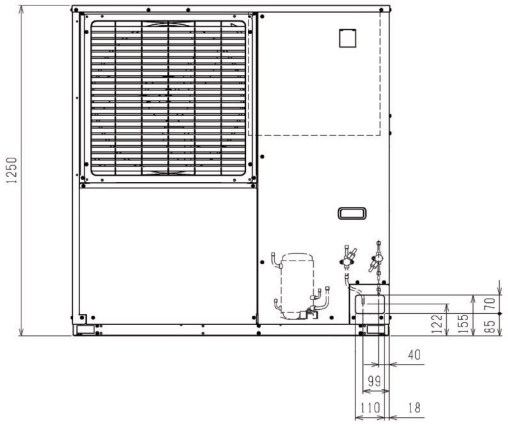
MODEL				ECOV-X15VA	ECOV-X37VA	ECOV-X55VA
REFRIGERATING CAPACITY	ET = -10°C*1		kW	4.0	10.0	16.0
	ET = -30°C*2		kW	2.27	5.07	7.95
SUCTION PRESSURE SATURATION TEMPERATURE RANGE			°C	-45～-5	-35～-5	-35～-5
REFRIGERANT TYPE				R744	R744	R744
INSTALLATION CONDITIONS				Outdoor installation	Outdoor installation	Outdoor installation
OPERATING CONDITIONS			°C	Ambient temperature -25～43	Ambient temperature -25～43	Ambient temperature -25～43
POWER SOURCE				Single phase 220-240v, 50Hz	3-phase 4-wire 380-400-415v, 50Hz	3-phase 4-wire 380-400-415v, 50Hz
ELECTRICAL CHARACTERISTICS	Power consumption*1		kW	1.9	6.25	10.0
	Operating current		A	9.0-8.6-8.2	10.8-10.3-9.9	17.3-16.5-15.9
	Power factor*7		%	96.5	87.6	87.6
	Starting current		A	5.5-5.3-5.1	8.0	8.0
OPERATING FREQUENCY			Hz	37～70	35～66	35～95
COP (SEPR) (Seasonal Efficiency Performance Ratio)				2.1	1.6 (2.53)	1.6 (2.60)
COMPRESSOR	Model			C-CV163L0A (Rotary)	HXK17FA-Y (Scroll)	HXK17FA-Y (Scroll)
	Displacement volume		m^3/h	-	4.1	5.9
	Crank case heater		W	20	45	45
GAS COOLER	Heat exchanger type			All aluminum flat tube fin	Salt-resistant corrugated fin & aluminum micro channel	Salt-resistant corrugated fin & aluminum micro channel
	Fan	Motor output	W	74 x 1	74 x 2	74 x 2
		Fan diameter	mm	Φ550 x 1	Φ550 x 2	Φ550 x 2
	Air flow rate		m^3/min	77.4	154.8	154.8
	Saturation pressure adjustment device			Electronic fan controller	Electronic fan controller	Electronic fan controller
LIQUID RECEIVER	Capacity			2.3	11	11
CAPACITY CONTROL				Inverter type	Inverter type	Inverter type
STARTUP METHOD				Inverter startup	Inverter startup	Inverter startup
HIGH-PRESSURE-CUT PREVENTION FUNCTION				Standard	Standard	Standard
PROTECTION DEVICE*5	Pressure switch <high pressure/low pressure>			High pressure: Standard (Mechanical) Low pressure: Standard (Digital)	High pressure: Standard (Mechanical) Low pressure: Standard (Digital)	High pressure: Standard (Mechanical) Low pressure: Standard (Digital)
	Overcurrent protection			Standard	Standard	Standard
	Thermal switch (discharge pipe)			-	Standard (Mechanical)	Standard (Mechanical)
	Oil temperature detection protection			-	Standard	Standard
BUILT-IN DEVICE*5	Pressure gauge			-	Standard <Discharge, Liquid>	Standard <Discharge, Liquid>
	Suction accumulator			Suction accumulator (2.0L)	Standard	Standard
	Oil Separator			-	Standard	Standard
COMMUNICATION*6				MODBUS®	MODBUS®	MODBUS®
DIMENSIONS (Width x Depth x Height)			mm	1200 x 477(+39) x 1250	1455 x 506(+38) x 1600	1455 x 506(+38) x 1600
WEIGHT			kg	115	290	290
PIPE SIZE	Suction pipe		mm (in)	9.52 (3/8")	15.88 (5/8")	15.88 (5/8")
	Liquid pipe		mm (in)	6.35 (1/4")*8	9.52 (3/8")	9.52 (3/8")*3
MAX PIPE LENGTH			m	25	50	50
SOUND PRESSURE LEVEL @1m*4			dB(A)	56	54.5 (51)	57 (54)
SOUND PRESSURE LEVEL @10m*4			dB(A)	36	34.5	37

Product Dimensions ECOV-X15VA

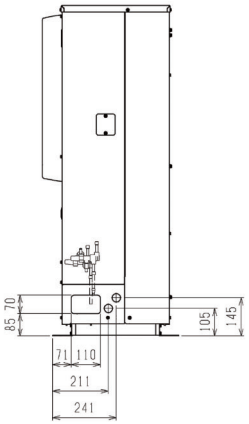
Upper View



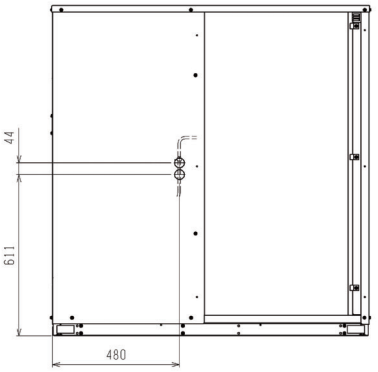
Front View



Side View

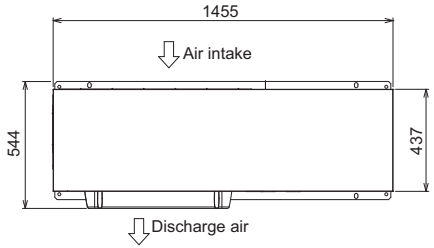


Rear View

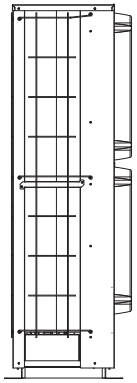


Product Dimensions ECOV-X37/55VA

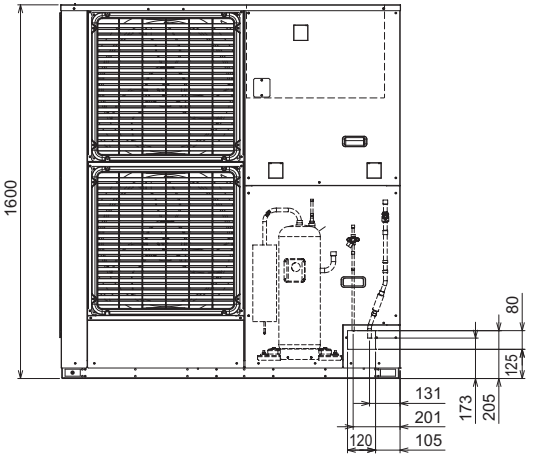
Upper View



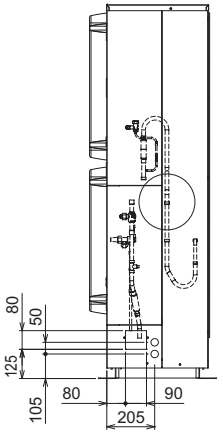
Left Side View



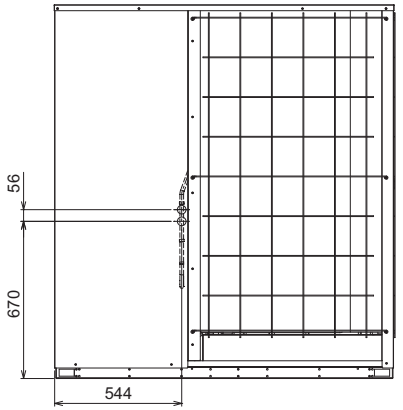
Front View



Right Side View



Rear View



Refrigeration Accessories / Optional Extras

DESCRIPTION	MODEL REF.
ECOV Series Air protection guide for ECOV-X15VA, ECOV-X37VA & ECOV-X55VA (1 required per ECOV-X15VA and 2 required per ECOV-X37/55VA)	AG-X37A

Residential Heating

Ecodan Residential Renewable Heating Systems




MELCloud Home
ZONE 1
ROOM TEMP 20°
22°
SET TO 21°
20°
ROOM
FLOW
CURVE
18°
ZONE 1
20°
ZONE 2
HOT WATER
REPORTS
ON till 22:00
SCHEDULE

Contents

Ecodan Heat Pumps - Renewable Heating Systems	**5.4**
PUZ-WZ50-120VAA/YAA R290 Monobloc Air Source Heat Pumps	**5.6**
PUZ-WM50VHA R32 Monobloc Air Source Heat Pump	**5.8**
PUZ-WM60-112VAA/YAA R32 Monobloc Air Source Heat Pumps	**5.10**
PUZ-HWM140VHA/YHA R32 Monobloc Air Source Heat Pumps	**5.12**
EHPT20X-MEHEW FTC7 Packaged Cylinder for Ecodan Monobloc Units	**5.14**
EHPT15-17X-UKHLEWS FTC7 Pre-Plumbed Slimline Cylinders for Ecodan Monobloc Units	**5.16**
EHPT15-30X-UKHEWS/L FTC7 Pre-Plumbed Standard Cylinders for Ecodan Monobloc Units	**5.18**
FTC7 / FTC2BR Flow Temperature Controllers for use with Ecodan Monobloc Units and Third Party BEMS	**5.20**
Energy Monitoring Packs	**5.21**
MELCloud Home Wi-Fi Connectivity	**5.22**
i-LIFE2 SLIM Fan Assisted Radiator	**5.24**
Accessories / Optional Extras	**5.26**

ecodan Renewable Heating Systems

ecodan Renewable Heating Technology

Ecodan Heat Pumps - Renewable Heating Systems

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

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

The award winning Ecodan heat pumps are available from 5kW up to 640kW, making them suitable for virtually any property, from small flats to large detached houses, from an office block to a school. They are the renewable, low carbon alternative to traditional high carbon heating systems.

- **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**

Ecodan 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 Ecodan, the market-leading brand of heat pumps built here in the UK and which can help reduce energy bills and lower emissions for almost any home. ”

George Clarke

Ecodan Brand Ambassador

Range Overview


R290
PUZ-WZ50VAA


R32
PUZ-WM50VHA


R290
PUZ-WZ60VAA


R32
PUZ-WM60VAA


R290
PUZ-WZ85VAA
PUZ-WZ85YAA


R32
PUZ-WM85VAA
PUZ-WM85YAA


R290
PUZ-WZ100VAA
PUZ-WZ100YAA


R32
PUZ-WM112VAA
PUZ-WM112YAA


R290
PUZ-WZ120VAA
PUZ-WZ120YAA


R32
PUZ-HWM140VHA
PUZ-HWM140YHA


R290
CAHV-Z450YA-HPB


R454C
CAHV-R450YA-HPB


R744
QAHV-N560YA-HPB

System Type		Litres	5kW	5kW	6kW	6kW	8.5kW	8.5kW	10kW	11.2kW	12kW	14kW	40kW	40kW	40kW
FTC7 Standalone	PAC-IF082B-E		●	●	●	●	●	●	●	●	●	●			
FTC7 Packaged Cylinder	EHPT20X-MEHEW	200	●	●	●	●	●	●	●	●	●	●			
FTC7 Pre-Plumbed Slimline Cylinder	EHPT15X-UKHLEWS	150	●	●	●	●	●	●							
	EHPT17X-UKHLEWS	170	●	●	●	●	●	●							
FTC7 Pre-Plumbed Standard Cylinder	EHPT15X-UKHEWS	150	●	●	●	●	●	●							
	EHPT17X-UKHEWS	170	●	●	●	●	●	●							
	EHPT21X-UKHEWS	210	●	●	●	●	●	●							
	EHPT21X-UKHEWL	210			●	●	●	●	●	●	●	●			
	EHPT25X-UKHEWL	250			●	●	●	●	●	●	●	●			
	EHPT30X-UKHEWL	300					●	●	●	●	●	●			
Approvals	Manufactured in the United Kingdom		●	●	●	●	●	●	●	●	●				
	Red Dot Award		●		●	●	●	●	●	●	●				
	Quiet Mark Certification						●		●		●				
	Microgeneration Certification Scheme		●	●	●	●	●	●	●	●	●	●		●	
	Keymark		●	●	●	●	●	●	●	●	●	●		●	●
	Boiler Upgrade Scheme Product Eligibility List		●	●	●	●	●	●	●	●	●	●			

Notes: For further information on the Ecodan QAHV and CAHV models, please refer to the 'Commercial Heat Pumps & Chillers' section of this catalogue. Product Eligibility List from https://www.ofgem.gov.uk/publications/boiler-upgrade-scheme-product-eligibility.

ecodan®

PUZ-WZ50-120VAA/YAA

R290 Monobloc Air Source Heat Pumps

The new R290 Ecodan monobloc air source heat pumps are designed specifically to suit the demands of the UK market and include 5, 6, 8.5, 10 and 12kW 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 & Benefits

- A+++ heating efficiency
- Ultra quiet noise levels
- MELCloud Home enabled
- High water temperature of up to 75°C
- Fully electric source of heating and hot water
- Minimised energy consumption
- Flexible product placement
- Remote control, monitoring, maintenance and technical support
- Ideal for energy storage
- Zero carbon ready

*7 QUIET MARK

Manufactured in the UK

R290



OUTDOOR UNIT		PUZ-WZ50VAA(-BS)	PUZ-WZ60VAA(-BS)	PUZ-WZ85VAA(-BS)	PUZ-WZ85YAA(-BS)	PUZ-WZ100VAA(-BS)	PUZ-WZ100YAA(-BS)	PUZ-WZ120VAA(-BS)	PUZ-WZ120YAA(-BS)
HEAT PUMP SPACE HEATER - 55°C	ErP Rating (Range A+++ to D)	A++	A++	A++	A++	A++	A++	A++	A++
	η_s	138%	139%	143%	143%	141%	141%	142%	142%
	SCOP (MCS)	3.38	3.43	3.51	3.51	3.48	3.48	3.51	3.51
HEAT PUMP SPACE HEATER - 35°C	ErP Rating (Range A+++ to D)	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++
	η_s	182%	179%	183%	183%	189%	189%	192%	192%
	SCOP (MCS)	4.42	4.39	4.47	4.47	4.62	4.62	4.71	4.71
HEAT PUMP COMBINATION HEATER - Large Profile*1	ErP Rating (Range A+ to F)	A+	A+	A+	A+	A+	A+	A+	A+
	η_{wh}	143%	143%	137%	137%	129%	129%	129%	129%
HEATING*2 (A-7/W35)	Capacity (kW)	5.2	6.2	8.5	8.5	10.0	10.0	11.5	11.5
	Power Input (kW)	1.94	2.51	3.27	3.27	3.70	3.70	4.69	4.69
	COP	2.68	2.47	2.60	2.60	2.70	2.70	2.45	2.45
OPERATING AMBIENT TEMPERATURE (°C DB)		-25 ~ +46	-25 ~ +46	-25 ~ +46	-25 ~ +46	-25 ~ +46	-25 ~ +46	-25 ~ +46	-25 ~ +46
MAXIMUM WATER OUTLET TEMPERATURE (°C)		75	75	75	75	75	75	75	75
SOUND DATA*3	Pressure Level at 1m (dBA)	40	40	40	40	40	40	40	40
	Power Level (dBA)*4	56	56	54	54	55	55	55	55
WATER DATA	Pipework Size (mm)	22	22	28	28	28	28	28	28
	Flow Rate (l/min)	14	17	27	27	34	34	34	34
DIMENSIONS (mm)	Width	1050	1050	1050	1050	1050	1050	1050	1050
	Depth	480	480	480	480	480	480	480	480
	Height	1020	1020	1040	1040	1040	1040	1040	1040
WEIGHT (kg)		89	89	103	117	120	131	120	131
ELECTRICAL DATA	Electrical Supply	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	380-415v, 50Hz	220-240v, 50Hz	380-415v, 50Hz	220-240v, 50Hz	380-415v, 50Hz
	Phase	Single	Single	Single	3	Single	3	Single	3
	Nominal Running Current [MAX] (A)*5	13	13	21	12	28	12	35	12
	Fuse Rating - MCB Sizes (A)*6	16	16	25	16	32	16	40	16
REFRIGERANT CHARGE (kg) / CO_2 EQUIVALENT (t)	R290 (GWP 0.02)	0.60 / 0.000012	0.60 / 0.000012	0.60 / 0.000012	0.60 / 0.000012	0.82 / 0.0000164	0.82 / 0.0000164	0.82 / 0.0000164	0.82 / 0.0000164

*1 Combination with EHPT20X-MEHEW Cylinder
*2 Under normal heating conditions at outdoor temp: -7°CDB / -8°CWB, outlet water temp 35°C, inlet water temp 30°C.
*3 Under normal heating conditions at outdoor temp: 7°CDB / 6°CWB, outlet water temp 55°C, inlet water temp 47°C as tested to BS EN14511.
*4 Sound power level tested to BS EN12102.
*5 Under nominal heating conditions at outdoor temp: 7°C, outlet water temp: 35°C.
*6 MCB Sizes BS EN60898-2 & BS EN60947-2.
*7 Quiet Mark certification is for PUZ-WZ85VAA/YAA(-BS), PUZ-WZ100VAA/YAA(-BS) and PUZ-WZ120VAA/YAA(-BS) models only.

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

Certificate Number: 037-0033-20-01 / 037-0159-25 / 037-0161-25
Product Type: Heat Pumps
Product Reference: PUZ-WZ50/60/85/100/120VAA/YAA(-BS)

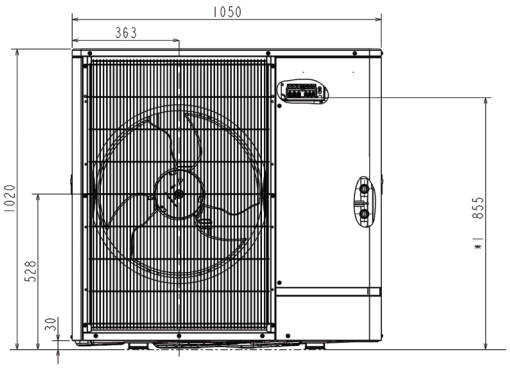
MCS CERTIFIED

Certification Numbers:
037-0135-23-1/2/3/4
037-0159-25-1/2
037-0161-24-1/2/3/4

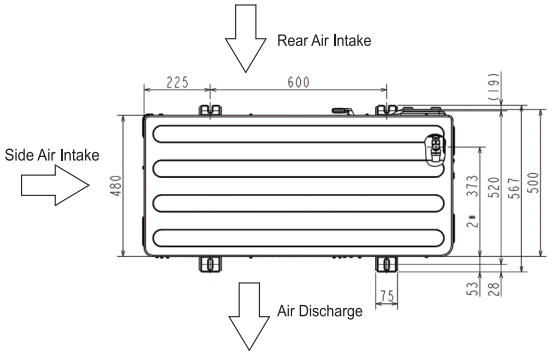
Product Dimensions PUZ-WZ50-60VAA(-BS)

All measurements in mm

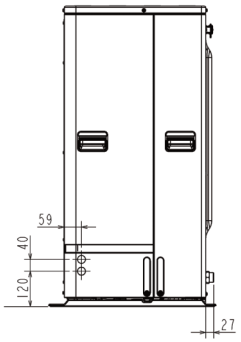
Front View



Upper View



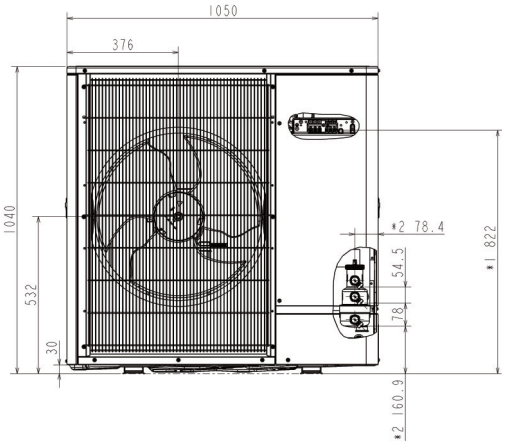
Side View



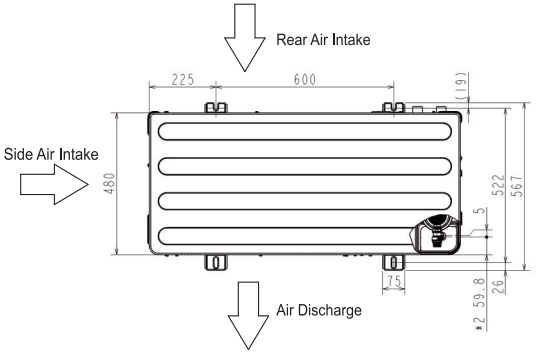
Product Dimensions PUZ-WZ85-120VAA/YAA(-BS)

All measurements in mm

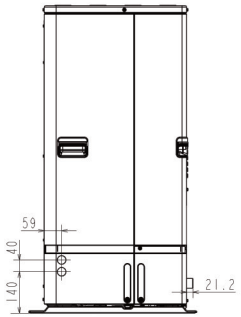
Front View



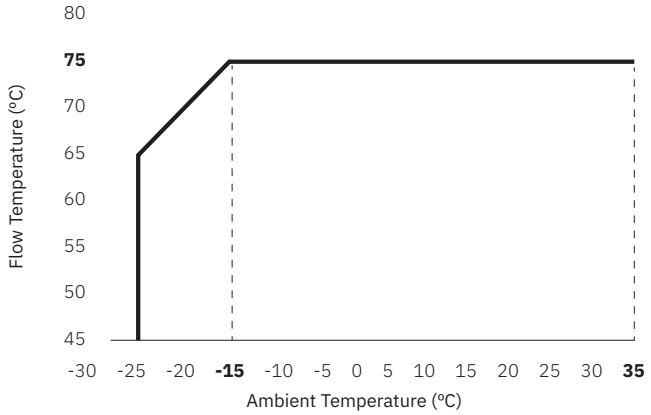
Upper View



Side View



Flow Temperature

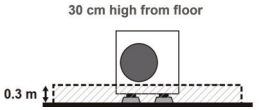


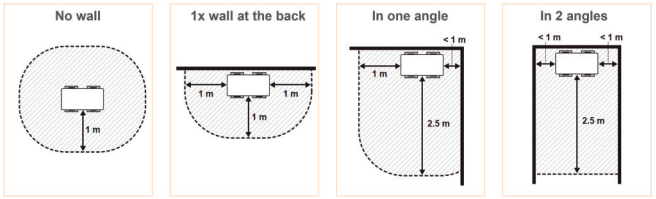
Protected Zones

There must not be any building openings or entrance to the basement in this area.

Must not extend to adjacent buildings or public traffic areas.

Ignition sources must not be present, either permanently or for a short period of time.





ecodan

PUZ-WM50VHA

R32 Monobloc Air Source Heat Pump



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 & Benefits

- 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 -20ºC
- 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

R32

OUTDOOR UNIT		PUZ-WM50VHA(-BS)
HEAT PUMP SPACE HEATER - 55˚C	ErP Rating (Range A+++ to D)	A++
	η_s	129%
	SCOP	3.24
HEAT PUMP SPACE HEATER - 35˚C	ErP Rating (Range A+++ to D)	A+++
	η_s	183%
	SCOP	4.62
HEAT PUMP COMBINATION HEATER - Large Profile*1	ErP Rating (Range A+ to F)	A+
	η_{wh}	135%
HEATING*2 (A-7/W35)	Capacity (kW)	5.0
	Power Input (kW)	1.67
	COP	3.00
OPERATING AMBIENT TEMPERATURE (°C DB)		-20 ~ +35
SOUND DATA*3	Pressure Level at 1m (dBA)	47
	Power Level (dBA)*4	61
WATER DATA	Pipework Size (mm)	22
	Flow Rate (l/min)	14
	Water Pressure Drop (kPa)	12.0
DIMENSIONS (mm)	Width	950
	Depth	330+30*7
	Height	923
WEIGHT (kg)		71
ELECTRICAL DATA	Electrical Supply	220-240v, 50Hz
	Phase	Single
	Nominal Running Current [MAX] (A)*5	4.64 [13]
	Fuse Rating - MCB Sizes (A)*6	16
REFRIGERANT CHARGE (kg) / CO_2 EQUIVALENT (t)	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: 7ºC, outlet water temp: 35ºC.
*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

Certificate Number: 037-0032-20
Product Type: Heat Pumps
Product Reference: PUZ-WM50VHA(-BS)

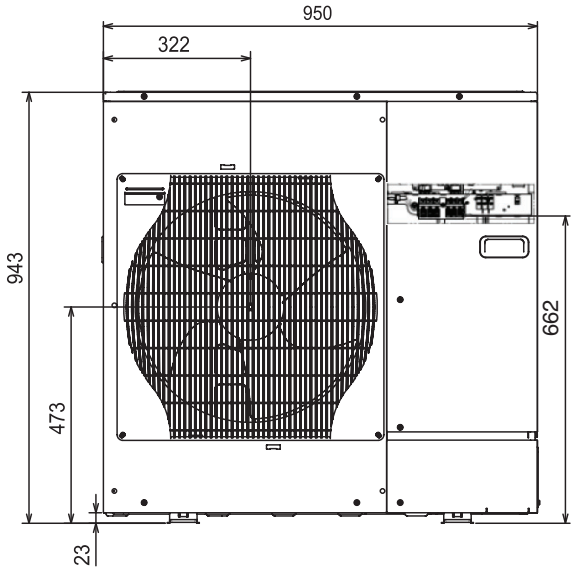
MCS CERTIFIED

Certification Numbers:
037-0032-20-01/02

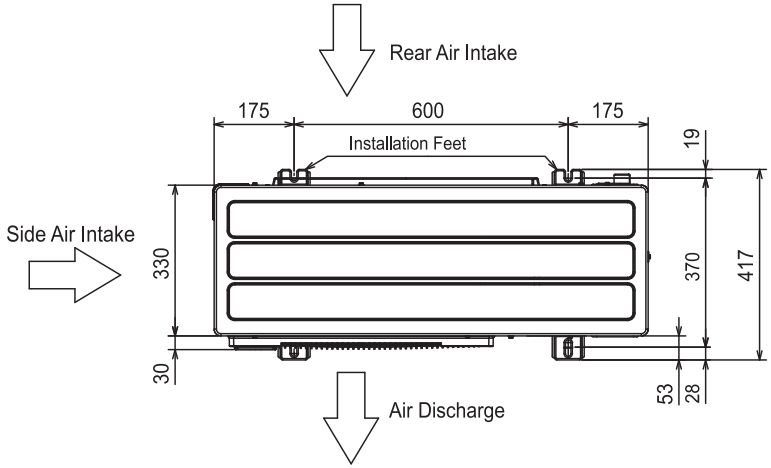
Product Dimensions PUZ-WM50VHA(-BS)

All measurements in mm

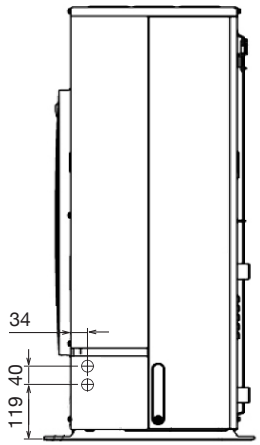
Front View



Upper View

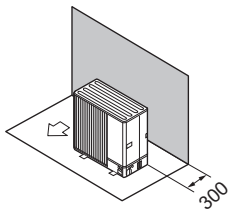


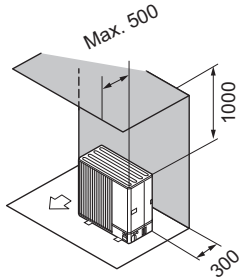
Side View

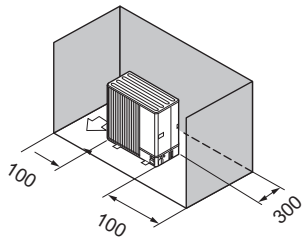


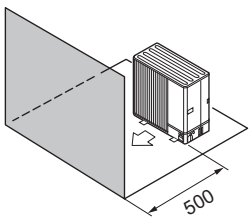
Installation Location PUZ-WM50VHA(-BS)

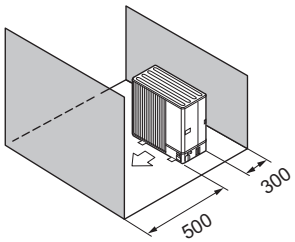
All measurements in mm

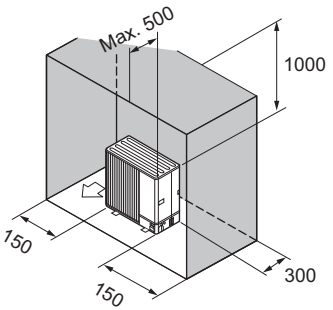












Please refer to Databook and Installation Manual for further details.

ecodan®

PUZ-WM60-112VAA/YAA

R32 Monobloc Air Source Heat Pumps

The multiple award winning range of AA chassis Ecodan monobloc air source heat pumps are designed specifically to suit the demands of the UK market and includes 6, 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 & Benefits

- 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 -25ºC
- Optimised low ambient defrost control and operation down to -7ºC
- Hybrid function, for use with conventional boilers
- Energy monitoring as standard
- Multiple unit cascade function

Manufactured in the UK

R32



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 (Range A+++ to D)	A++	A++	A++	A++	A++
	η_s	142%	139%	139%	134%	134%
	SCOP	3.57	3.48	3.46	3.34	3.31
HEAT PUMP SPACE HEATER - 35˚C	ErP Rating (Range A+++ to D)	A+++	A+++	A+++	A+++	A+++
	η_s	190%	193%	193%	191%	191%
	SCOP	4.81	4.84	4.81	4.74	4.70
HEAT PUMP COMBINATION HEATER - Large Profile*1	ErP Rating (Range A+ to F)	A+	A+	A+	A+	A+
	η_{wh}	145%	145%	145%	148%	148%
HEATING*2 (A-7/W35)	Capacity (kW)	6.0	8.5	8.5	11.2	11.2
	Power Input (kW)	1.88	3.27	3.27	3.73	3.73
	COP	3.20	2.60	2.60	3.00	3.00
OPERATING AMBIENT TEMPERATURE (°C DB)		-20 ~ +35	-20 ~ +35	-25 ~ +35	-25 ~ +35	-25 ~ +35
SOUND DATA*3	Pressure Level at 1m (dBA)	45	45	45	45	45
	Power Level (dBA)*4	58	58	58	60	60
WATER DATA	Pipework Size (mm)	22	28	28	28	28
	Flow Rate (l/min)	17	24	24	32	32
	Water Pressure Drop (kPa)	8.0	15.0	15.0	24.0	24.0
DIMENSIONS (mm)	Width	1050	1050	1050	1050	1050
	Depth	480	480	480	480	480
	Height	1020	1020	1020	1020	1020
WEIGHT (kg)		98	98	111	119	119
ELECTRICAL DATA	Electrical Supply	220-240v, 50Hz	220-240v, 50Hz	400v, 50Hz	220-240v, 50Hz	400v, 50Hz
	Phase	Single	Single	Three	Single	Three
	Nominal Running Current [MAX] (A)*5	5.68 [13]	9.1 [22]	2.9 [11.5]	10.9 [28]	3.6 [13]
	Fuse Rating - MCB Sizes (A)*6	16	25	16	32	16
REFRIGERANT CHARGE (kg) / CO_2 EQUIVALENT (t)	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 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: 7ºC, outlet water temp: 35ºC.
*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

MCS CERTIFIED

Certificate Number: 037-0033-20 / 037-0034-20
Product Type: Heat Pumps
Product Reference: PUZ-WM60/85VAA(-BS) / PUZ-WM112VAA(-BS)

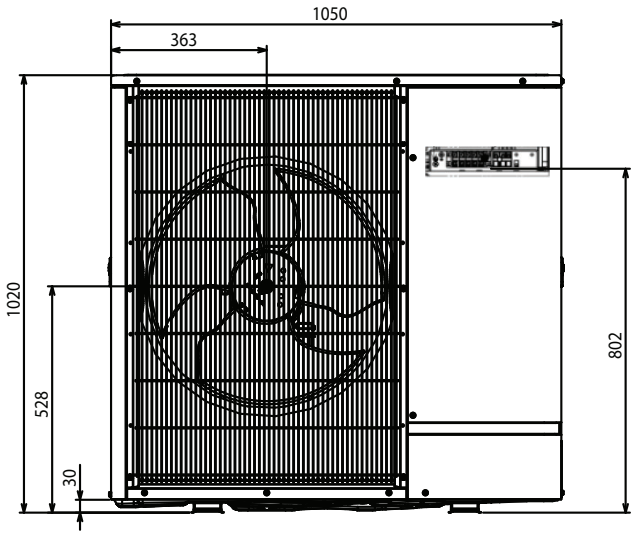
Certification Numbers:
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037-0034-20-01/02/03/04

Product Dimensions

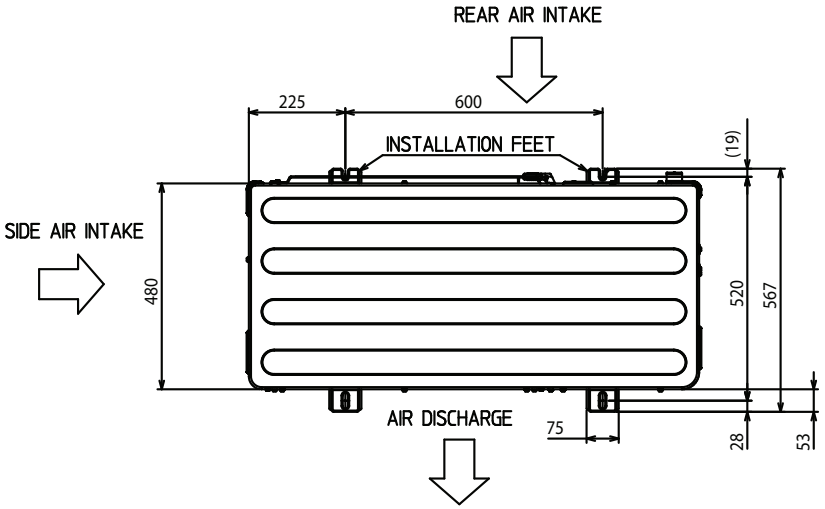
PUZ-WM60-112VAA/YAA(-BS)

All measurements in mm

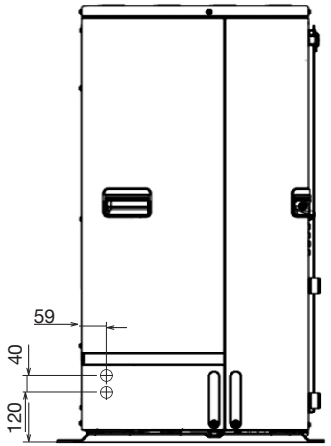
Front View



Upper View



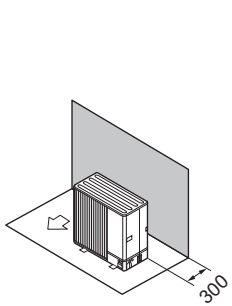
Side View

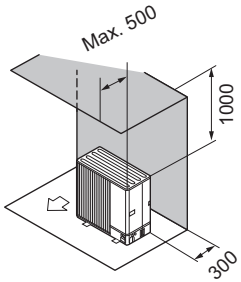


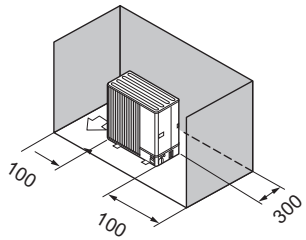
Installation Location

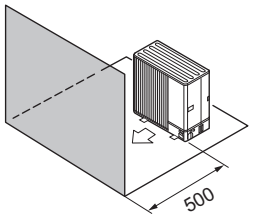
PUZ-WM60-112VAA/YAA(-BS)

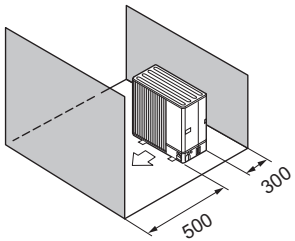
All measurements in mm

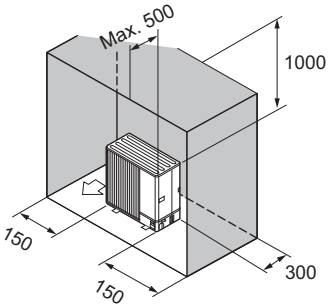












Please refer to Databook and Installation Manual for further details.

ecodan®

PUZ-HWM140VHA/YHA

R32 Monobloc Air Source Heat Pumps

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 & Benefits

- 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 -28ºC
- 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

R32



OUTDOOR UNIT		PUZ-HWM140VHA(-BS)	PUZ-HWM140YHA(-BS)
HEAT PUMP SPACE HEATER - 55°C	ErP Rating (Range A+++ to D)	A++	A++
	η_s	131%	131%
	SCOP	3.26	3.24
HEAT PUMP SPACE HEATER - 35°C	ErP Rating (Range A+++ to D)	A+++	A+++
	η_s	176%	176%
	SCOP	4.33	4.30
HEAT PUMP COMBINATION HEATER - Large Profile*1	ErP Rating (Range A+ to F)	A+	A+
	η_{wh}	130%	130%
HEATING*2 (A-7/W35)	Capacity (kW)	14.0	14.0
	Power Input (kW)	5.71	5.71
	COP	2.45	2.45
OPERATING AMBIENT TEMPERATURE (°C DB)		-28 ~ +35	-28 ~ +35
SOUND DATA*3	Pressure Level at 1m (dBA)	53	53
	Power Level (dBA)*4	67	67
WATER DATA	Pipework Size (mm)	28	28
	Flow Rate (l/min)	40.1	40.1
	Water Pressure Drop (kPa)	20	20
DIMENSIONS (mm)	Width	1020	1020
	Depth	330+30*7	330+30*7
	Height	1350	1350
WEIGHT (kg)		132	143
ELECTRICAL DATA	Electrical Supply	220-240v, 50Hz	380-415v, 50Hz
	Phase	Single	3
	Nominal Running Current [MAX] (A)*5	13.8 [35]	4.5 [13]
	Fuse Rating - MCB Sizes (A)*6	40	16
REFRIGERANT CHARGE (kg) / CO_2 EQUIVALENT (t)	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: 7ºC, outlet water temp: 35ºC.
*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

MCS CERTIFIED

Certificate Number: 037-0035-20
Product Type: Heat Pumps
Product Reference: PUZ-HWM140VHA/YHA(-BS)

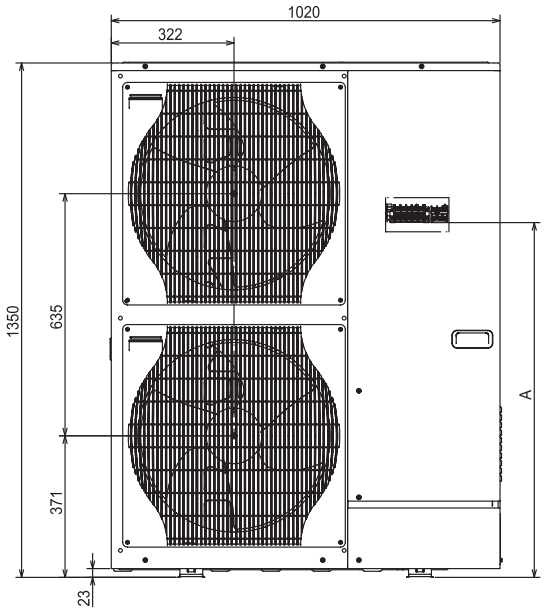
Certification Numbers:
037-0035-20-01/02/03/04

Product Dimensions

PUZ-HWM140VHA/YHA(-BS)

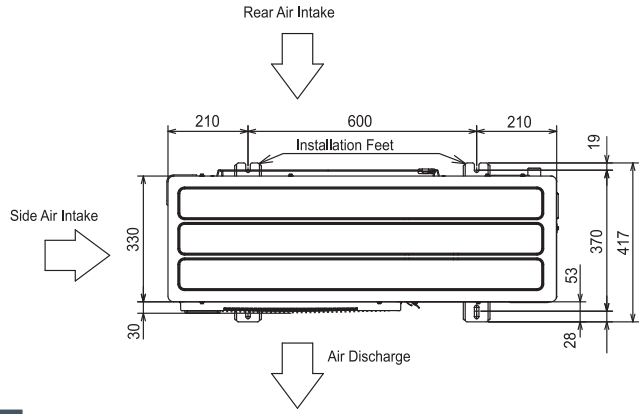
All measurements in mm

Front View

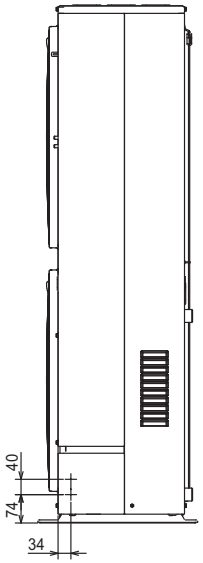


	A
VHA	1079
YHA	931

Upper View



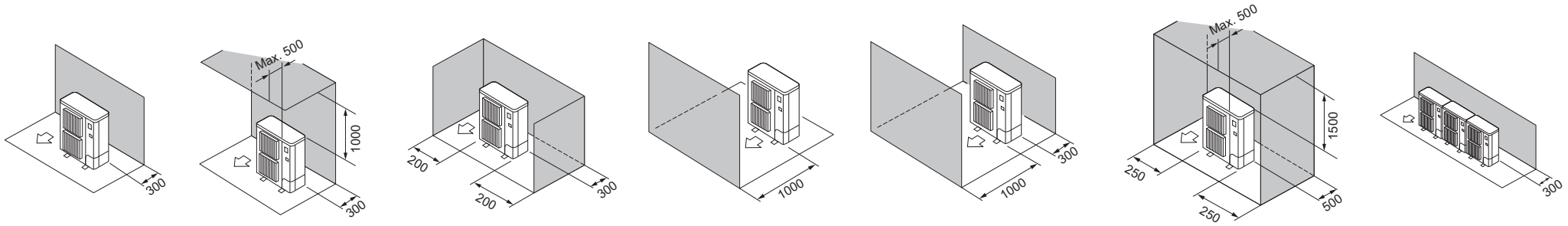
Side View



Installation Location

PUZ-HWM140VHA/YHA(-BS)

All measurements in mm



Please refer to Databook and Installation Manual for further details.

EHPT20X-MEHEW

FTC7 Packaged Cylinder for Ecodan Monobloc Units



The Packaged Cylinder provides a highly adaptable heating solution for all property types.

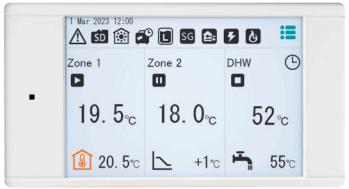
Designed to optimise performance within a compact white goods footprint, the plug and play packaged cylinder fully integrates with the Ecodan monobloc air source heat pump range. Advanced plate heat exchanger technology delivers superior heat up times and our rapid SD card commissioning, MELCloud Home Wi-Fi connectivity and energy monitoring functions are also included as standard.

Key Features & Benefits

- A+ hot water efficiency
- Stylish and modern aesthetics
- Packaged hot water, heating and controls
- Colour touch screen control
- MELCloud Home enabled
- Minimised energy consumption
- Flexible product placement
- Plug and play simple installation
- Intutive user friendly operation
- Remote control, monitoring, maintenance and technical support

FTC7 Controller

Mitsubishi Electric's seventh generation controller (FTC7) includes intelligent room temperature control as standard. This together with advanced weather compensation ensures the system delivers efficient, comfortable heating regardless of the season. FTC7 also includes energy monitoring showing consumed and produced energy.



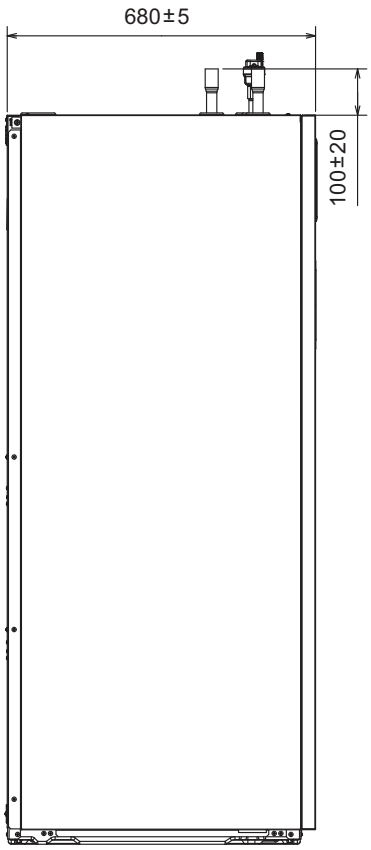
R290 R32

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

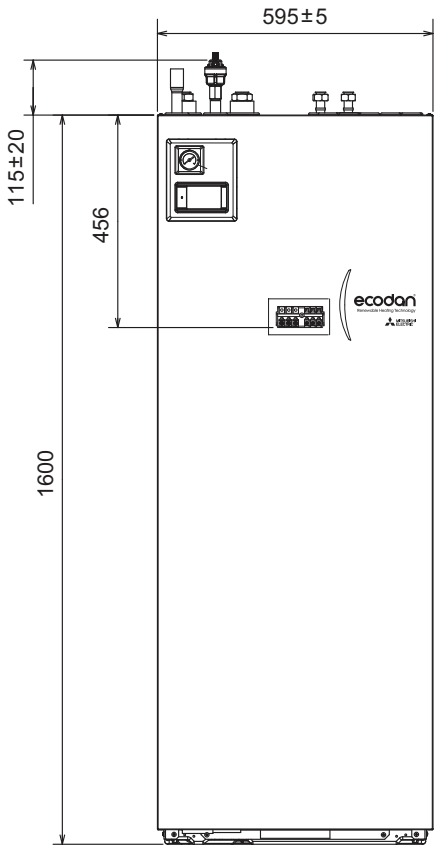
*1 MCB Sizes BS EN60898-2 & BS EN60947-2. *2 Optional 2 zone accessory pack available.

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

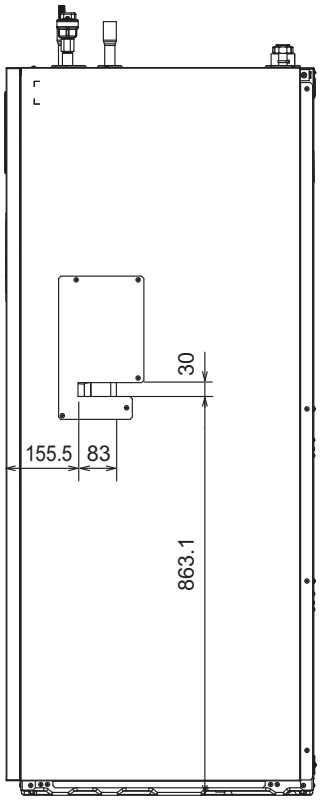
Left View



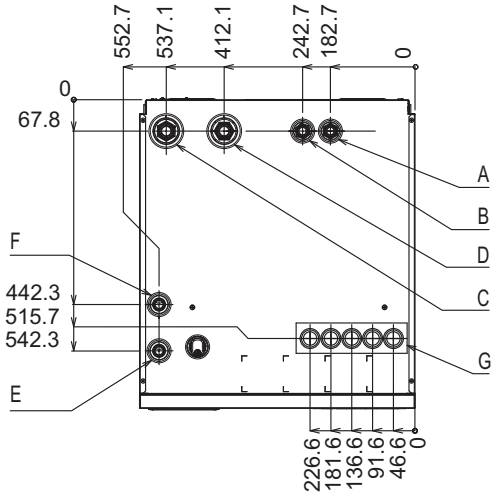
Front View



Right View



Upper View



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

EHPT15-17X-UKHLEWS

FTC7 Pre-Plumbed Slimline Cylinders for Ecodan Monobloc Units



The Pre-Plumbed Slimline Cylinder comes complete with integrated hydraulic components & advanced controls.

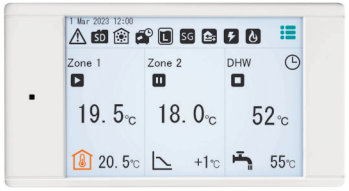
Designed to optimise performance and flexibility within a minimal footprint, the slimline cylinder fully integrates with the Ecodan monobloc air source heat pump range. Advanced plate heat exchanger technology delivers superior heat up times and our rapid SD card commissioning, MELCloud Home Wi-Fi connectivity and energy monitoring functions are also included as standard.

Key Features & Benefits

- Pre-Plumbed and Pre-Wired
- DHW Plate Heat Exchanger combined with scale trap
- Low Loss Header
- Colour touch screen control
- MELCloud Home enabled
- Plug and play simple installation
- Excellent hot water recovery times
- Automatic heat pump flow rate regulation
- Intuitive user friendly operation
- Remote control, monitoring, maintenance and technical support

FTC7 Controller

Mitsubishi Electric's seventh generation controller (FTC7) includes intelligent room temperature control as standard. This together with advanced weather compensation ensures the system delivers efficient, comfortable heating regardless of the season. FTC7 also includes energy monitoring showing consumed and produced energy.



Manufactured in the UK

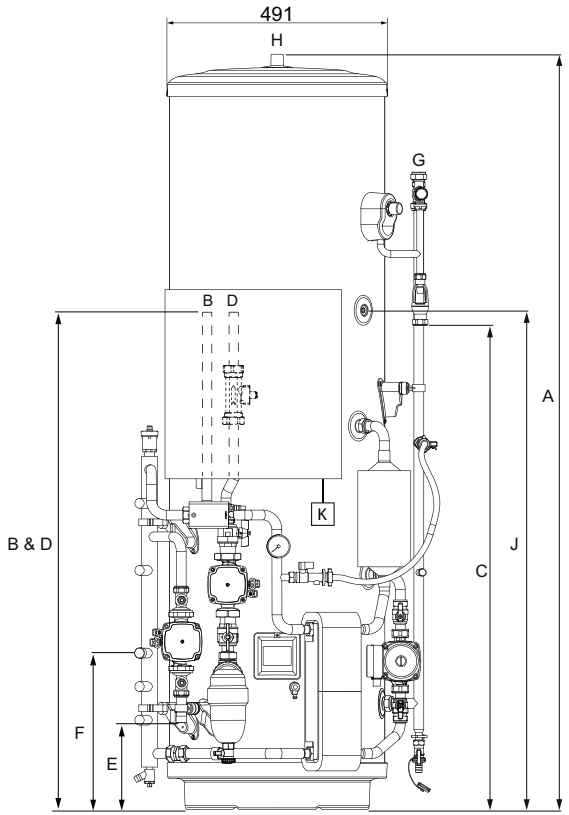
R290 R32

CYLINDER			EHPT15X-UKHLEWS	EHPT17X-UKHLEWS
NOMINAL HOT WATER VOLUME (LITRES)			150	170
ErP Rating (Range A+ to F)			C	C
HEAT LOSS (kWh/24hrs)			1.40	1.59
HEAT LOSS (W)			58	66
WATER		Flow rate (l/min) - with R32 Heat Pump 5 / 6 / 8.5kW	14 / 17 / 24	14 / 17 / 24
		- with R290 Heat Pump 5 / 6 / 8.5kW	14 / 17 / 27	14 / 17 / 27
Primary Circuit Pump			Grundfos UPM3L 25-75 130AZA	
		Heating Circuit Pump	Grundfos UPM3 AUTO 25-70 130	
		Sanitary Hot Water Pump	Grundfos UPSO 15-60 CIL2	
		Connection Size (mm) Heating / DHW	22 / 22	22 / 22
		Charge Pressure (MPa (Bar))	0.35 (3.5)	0.35 (3.5)
WATER SAFETY	Water Circuit	Control Thermistor (°C)	80	80
	DHW Cylinder	DHW Expansion Vessel (Litres)	12	18
		Control Thermistor	75	75
		Over Temperature Cut-Out (°C)	80 ± 5	80 ± 5
		Temp and Pressure Relief Valve (°C) / (MPa (Bar))	90 / 1.0 (10)	90 / 1.0 (10)
		Expansion Relief Valve (Cold) (MPa (Bar))	0.8 (8)	0.8 (8)
DIMENSIONS (mm)		Width	676	676
		Depth	654	654
		Height	1516	1690
WEIGHT EMPTY / FULL (kg)			59 / 209	63 / 233
CYLINDER MATERIAL	Cylinder	Cylinder Material	Duplex stainless steel	
	Insulation	Insulation Type	CFC / HCFC-free flame-retardant expanded Polyurethane	
		Insulation Thickness (mm)	50	50
		GWP of Insulation	3.1	3.1
		ODP of Insulation	0	0
ELECTRICAL DATA	Control Board *optionally powered by outdoor unit*	Electrical Supply	220-240v, 50Hz	220-240v, 50Hz
		Phase	Single	Single
		Fuse Rating - MCB Sizes (A)*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	

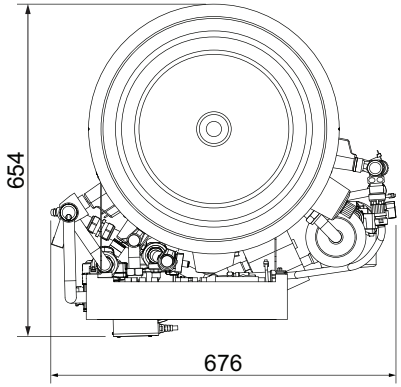
*1 MCB Sizes BS EN60898-2 & BS EN60947-2. *2 Optional 2 zone accessory pack available.

Notes: Cylinder includes: Flow Temperature Controller (FTC7) with Main Controller and Temperature Sensors, Heat Pump Filter, Pumps & Valves for Primary Circuit and Zone 1 and DHW use, Flow Sensor, Plate Heat Exchanger, Scale Trap, 3kW Immersion Heater, DHW Expansion Vessel, Diverter Valve and Low Loss Header.

Front View



Upper View



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

Capacity	150	170
A	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	

EHPT15-30X-UKHEWS/L

FTC7 Pre-Plumbed Standard Cylinders for Ecodan Monobloc Units



The Pre-Plumbed Standard Cylinder comes complete with integrated hydraulic components & advanced controls.

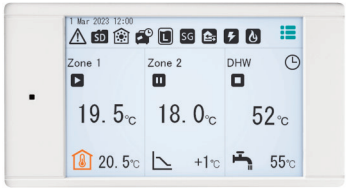
Designed to optimise performance and flexibility within an average footprint, the standard cylinder fully integrates with the Ecodan monobloc air source heat pump range. Advanced plate heat exchanger technology delivers superior heat up times and our rapid SD card commissioning, MELCloud Home Wi-Fi connectivity and energy monitoring functions are also included as standard.

Key Features & Benefits

- Pre-Plumbed and Pre-Wired
- DHW Plate Heat Exchanger combined with scale trap
- Low Loss Header
- Colour touch screen control
- MELCloud Home enabled
- Plug and play simple installation
- Excellent hot water recovery times
- Automatic heat pump flow rate regulation
- Intuitive user friendly operation
- Remote control, monitoring, maintenance and technical support

FTC7 Controller

Mitsubishi Electric's seventh generation controller (FTC7) includes intelligent room temperature control as standard. This together with advanced weather compensation ensures the system delivers efficient, comfortable heating regardless of the season. FTC7 also includes energy monitoring showing consumed and produced energy.



Manufactured in the UK

R290 R32

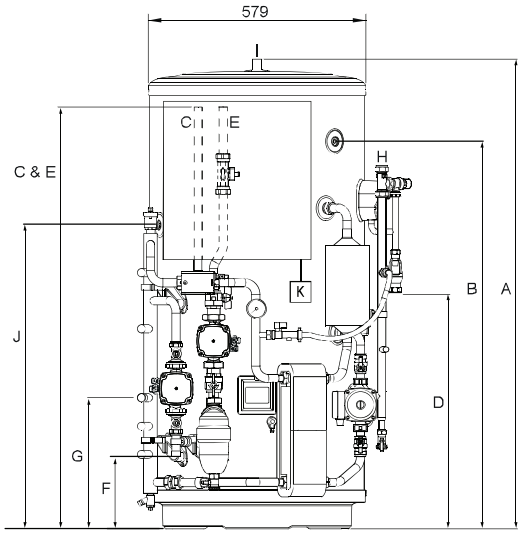
CYLINDER			EHPT15X-UKHEWS	EHPT17X-UKHEWS	EHPT21X-UKHEWS	EHPT21X-UKHEWL	EHPT25X-UKHEWL	EHPT30X-UKHEWL
NOMINAL HOT WATER VOLUME (LITRES)			150	170	210	210	250	300
ErP Rating (Range A+ to F)			B	B	C	C	C	C
HEAT LOSS (kWh/24hrs)			1.15	1.23	1.53	1.53	1.80	2.09
HEAT LOSS (W)			48	51	64	65	75	86
WATER		Flow rate (l/min) - with R32 Heat Pump 5 / 6 / 8.5 / 11.2 / 14kW	14 / 17 / 24 / - / -	14 / 17 / 24 / - / -	14 / 17 / 24 / - / -	- / 17 / 24 / 32 / 40	- / 17 / 24 / 32 / 40	- / - / 24 / 32 / 40
		- with R290 Heat Pump 5 / 6 / 8.5 / 10 / 12kW	14 / 17 / 27 / - / -	14 / 17 / 27 / - / -	14 / 17 / 27 / - / -	- / 17 / 27 / 34 / 34	- / 17 / 27 / 34 / 34	- / - / 27 / 34 / 34
		Primary Circuit Pump	Grundfos UPM4L 25-75 130AZA					
		Heating Circuit Pump	Grundfos UPM3 AUTO 25-70 130					
		Sanitary Hot Water Pump	Grundfos UPSO 15-60 CIL2					
		Connection Size (mm) Heating / DHW	22 / 22	22 / 22	22 / 22	28 / 22	28 / 22	28 / 22
		Charge Pressure (MPa (Bar))	0.35 (3.5)	0.35 (3.5)	0.35 (3.5)	0.35 (3.5)	0.35 (3.5)	0.35 (3.5)
WATER SAFETY	Water Circuit	Control Thermistor (°C)	80	80	80	80	80	80
	DHW Cylinder	DHW Expansion Vessel (Litres)	12	18	18	18	24	24
		Control Thermistor	75	75	75	75	75	75
		Over Temperature Cut-Out (°C)	80 +/- 5	80 +/- 5	80 +/- 5	80 +/- 5	80 +/- 5	80 +/- 5
		Temp and Pressure Relief Valve (°C) / (MPa (Bar))	90 / 1.0 (10)	90 / 1.0 (10)	90 / 1.0 (10)	90 / 1.0 (10)	90 / 1.0 (10)	90 / 1.0 (10)
		Expansion Relief Valve (Cold) (MPa (Bar))	0.8 (8)	0.8 (8)	0.8 (8)	0.8 (8)	0.8 (8)	0.8 (8)
DIMENSIONS (mm)		Width	730	730	730	748	748	748
		Depth	756	756	756	755	755	755
		Height	1131	1257	1509	1509	1761	2075
WEIGHT EMPTY / FULL (kg)			55 / 205	58 / 228	64 / 274	68 / 278	74 / 324	82 / 382
CYLINDER MATERIAL	Cylinder	Cylinder Material	Duplex stainless steel					
	Insulation	Insulation Type	CFC / HCFC-free flame-retardant expanded Polyurethane					
		Insulation Thickness (mm)	60	60	60	60	60	60
		GWP of Insulation	3.1	3.1	3.1	3.1	3.1	3.1
		ODP of Insulation	0	0	0	0	0	0
ELECTRICAL DATA	Control Board *optionally powered by outdoor unit*	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
		Fuse Rating - MCB Sizes (A)*1	16	16	16	16	16	16
	Immersion Heater	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
		Capacity (kW)	3	3	3	3	3	3
		Max Running Current (A)	13	13	13	13	13	13
		Fuse Rating - MCB Sizes (A)*1	16	16	16	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					

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

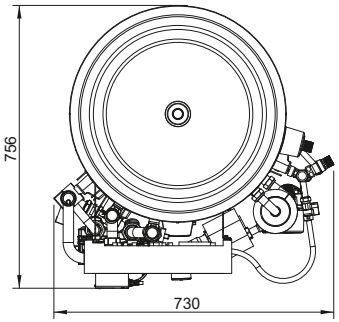
Notes: Cylinder includes: Flow Temperature Controller (FTC7) with Main Controller and Temperature Sensors, Heat Pump Filter, Pumps & Valves for Primary Circuit and Zone 1 and DHW use, Flow Sensor, Plate Heat Exchanger, Scale Trap, 3kW Immersion Heater, DHW Expansion Vessel, Diverter Valve and Low Loss Header.

Product Dimensions EHPT15-21X-UKHEWS

Front View



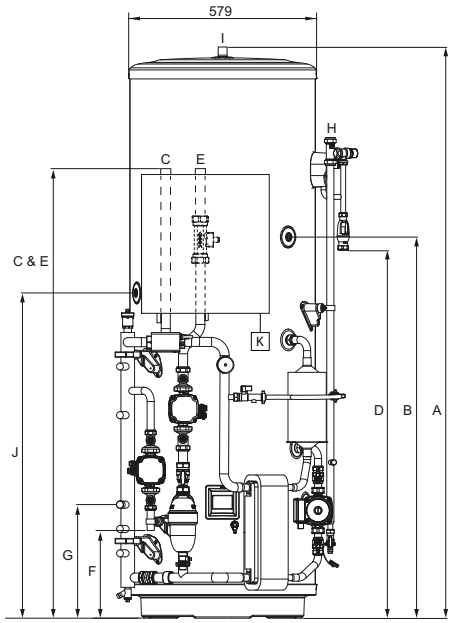
Upper View



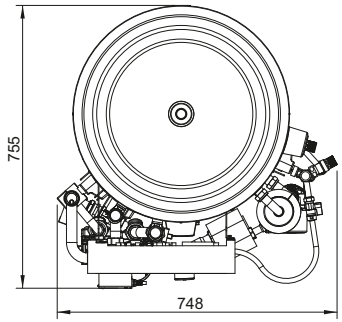
Product Dimensions EHPT21-30X-UKHEWL

All measurements in mm

Front View



Upper View



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

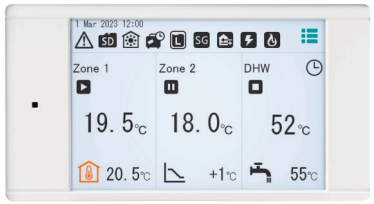
Capacity	150	170	210 (S)	210 (L)	250	300
A	1131	1257	1509	1509	1761	2075
B	Not Fitted	Not Fitted	1050	1050	1175	1385
C	1122	1122	1122	1370	1370	1370
D	505	630	880	880	1136	1450
E	1122	1122	1122	1370	1370	1370
F	194	194	194	270	270	270
G	350	350	350	350	350	350
J	675	815	925	925	1005	1193
K	Installer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

ecodan®

FTC7 / FTC2BR Flow Temperature Controllers

For use with Ecodan Monobloc Units and Third Party BEMS





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

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

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

Controlled

- 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.

R290 R32

FLOW TEMPERATURE CONTROLLERS		FTC7 (PAC-IF082B-E)	FTC2BR (PAC-IF033B-E)
COMPATIBILITY	PUZ-WZ50VAA(-BS)	✓	
	PUZ-WZ60VAA(-BS)	✓	
	PUZ-WZ85VAA/YAA(-BS)	✓	
	PUZ-WZ100VAA/YAA(-BS)	✓	
	PUZ-WZ120VAA/YAA(-BS)	✓	
	PUZ-WM50VHA(-BS)	✓	✓
	PUZ-WM60VAA(-BS)	✓	✓
	PUZ-WM85VAA/YAA(-BS)	✓	✓
	PUZ-WM112VAA/YAA(-BS)	✓	✓
	PUZ-HWM140VHA/YHA(-BS)	✓	✓
BUILT-IN FEATURES	Initial Setting Wizard	✓	
	Commissioning Aide	✓	
	Smart Grid Ready	✓	
	PV Connection	✓	
	Energy Monitoring	✓	
	Dual Set-Point DHW	✓	
	Flow Rate Control Logic	✓	
	Quiet Mode	✓	
	Cascade*1	✓	
	Hybrid	✓	
MELCloud Home ENABLED*2		✓	
BEMS INTERFACE			✓
DIMENSIONS (MM)	Width	393	336
	Depth	86.7	69
	Height	422	278
WEIGHT (kg)		4.2	3.2
OPERATING AMBIENT TEMPERATURE (°C) / HUMIDITY		0~ +35°C (RH<80%)	0~ +35°C (RH<80%)
ELECTRICAL DATA	Electrical Supply	Via Outdoor Unit or Independent Source (230v)	Via Outdoor Unit or Independent Source (230v)
	Phase	Single	Single

*1 Requires additional optional part PAC-IF082B-E. Please contact your regional sales office technical team. *2 Requires MELCloud Home Wi-Fi Interface MAC-597IF-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 Home.

MELCloud HOME



R290	R32	R290	R32	R290	R32	R290	R32	R290	R32
PUZ-WZ50VAA	PUZ-WM50VHA	PUZ-WZ60VAA	PUZ-WM60VAA	PUZ-WZ85VAA	PUZ-WM85VAA	PUZ-WZ100VAA	PUZ-WM112VAA	PUZ-WZ120VAA	PUZ-HWM140VHA



PACK	5kW	5kW	6kW	6kW	8.5kW	8.5kW	10kW	11.2kW	12kW	14kW
EMP1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
EMP2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
EMPH-M-1PH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

DESCRIPTION	ELECTRIC METER	HEAT METER	DATA STORAGE
Energy input & output estimation included as standard			
Electrical energy measurement consumption pack	2 x ACC-EM-EML-1PH2 System Electricity Meter		
Electrical energy consumption and heat generation pack for hybrid systems	2 x ACC-EM-EML-1PH2 System Electricity Meter	1 x ACC-HM-749-G25 Glycol Mono Hybrid System Heat Meter	ACC-RES-DSV-1Y One Year

MELCloud Home Wi-Fi Connectivity

MELCloud Home 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.

MELCloud Home enables effortless management of an Ecodan system anytime, anywhere, providing real-time system status updates and allowing the user to monitor energy usage and temperature reports, directly from their device.

The set up and remote operation of your Ecodan heating system via MELCloud Home 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.

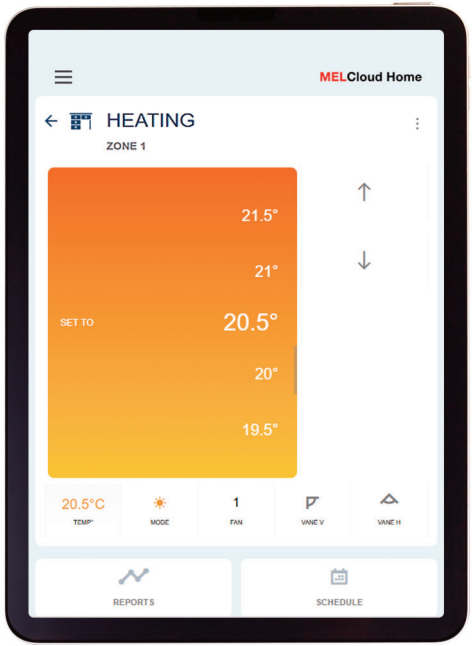
Key Features & Benefits

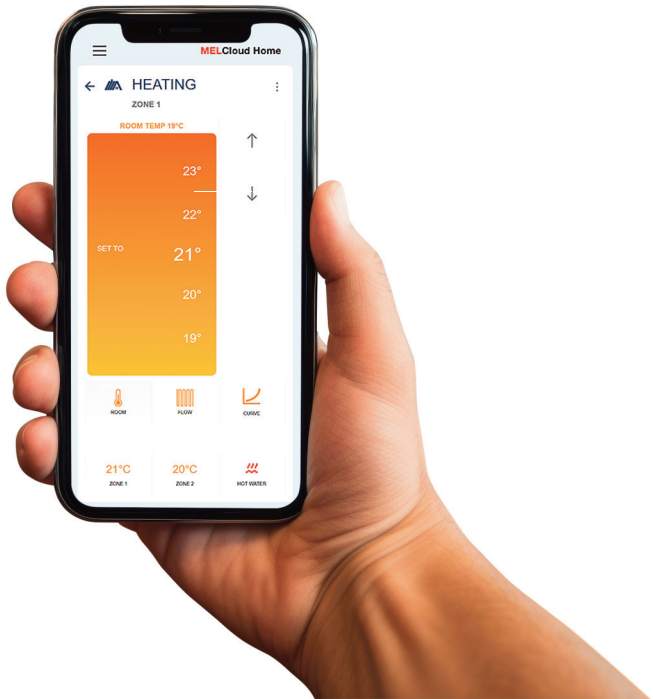
- Monitor & control your Ecodan directly from your connected device
- Access to remote maintenance and technical support
- Reports on energy use, temperature history and more
- Share / restrict access and control of the Ecodan system
- Smart home integration via Amazon Alexa

Available on the App Store | GET IT ON Google Play | Windows Store

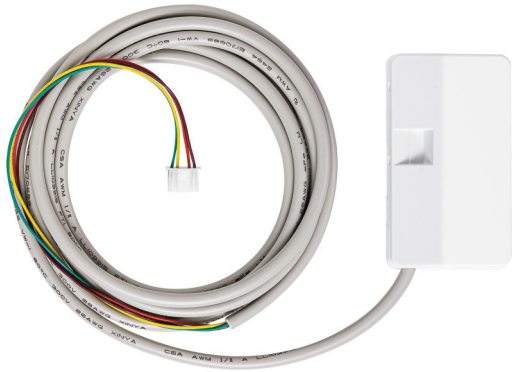
System Diagram







MELCloud HOME



For more information, watch our videos:

Smart Control your Ecodan heat pump with MELCloud Home
Click play or Scan the QR code

Play

MELCloud Home access point on Ecodan air source heat pumps
Click play or Scan the QR code

Play

Available for PC, Mac, Tablet or Smartphone

Supported Ecodan Models

All **Ecodan FTC7** systems have energy monitoring functionality as standard and the ability to connect to MELCloud Home. A MAC-597IF-E Wi-Fi Interface is required to use MELCloud Home.

Wi-Fi Interface		MAC-597IF-E
DESCRIPTION		Wi-Fi Interface
CONNECT TO		Indoor Unit
MAX NUMBER OF UNITS		1
COMPATIBILITY		Ecodan FTC7
POWER SUPPLY		From indoor unit
DIMENSIONS (WxDxH) mm		73.5 x 18.5 x 41.5
CONTROL	On/Off	✓
	Mode	✓
	Heating Setpoint	✓
	Hot Water Boost	✓
	2-Zone Control	✓
	Holiday Mode	✓
	Timer	✓
	Frost Protection	✓
MONITOR	On/Off	✓
	Mode	✓
	Heating Setpoint	✓
	Tank Temperature	✓
	Tank Target Temperature	✓
	Outside Temperature	✓
	Fault Codes	✓
	Consumed Electrical Energy	✓
	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 & Benefits

- 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 080 ATS2	I-LIFE2 SLIM DLMV 170 ATS2
CAPACITY (W)*2 *6 *8		500 / 780 / 880	1060 / 1660 / 2130
ELECTRICAL DATA	Electrical Supply	230v, 50Hz	230v, 50Hz
	Phase	Single	Single
	Fan Power Input (W) - (Lo-Mi-Hi)*1 *8	0.7 / 4.6 / 10.7	1.62 / 10.1 / 19.0
WATER DATA	Water Flow Rate (l/min) - (Lo-Mi-Hi)*2	1.2 / 2.4 / 2.4	3 / 4.8 / 6
	Water Pressure Drop (kPa) - (Lo-Mi-Hi)*2 *8	3 / 6 / 8	2 / 5 / 8
AIR DATA	Air Flow Rate (m3/h) - (Lo-Mi-Hi)*1	51 / 93 / 125	122 / 221 / 277
SOUND DATA	Sound Pressure (dB(A)) - (Lo-Mi-Hi)*3	24 / 35 / 41	26 / 36 / 42
	Sound Power (dB(A)) - (Lo-Mi-Hi)*4 *7 *8	33 / 44 / 50	35 / 45 / 51
DIMENSIONS (mm)*5	Width	737	937
	Depth	131	131
	Height	579	579
WEIGHT (kg)*5		17	20

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.

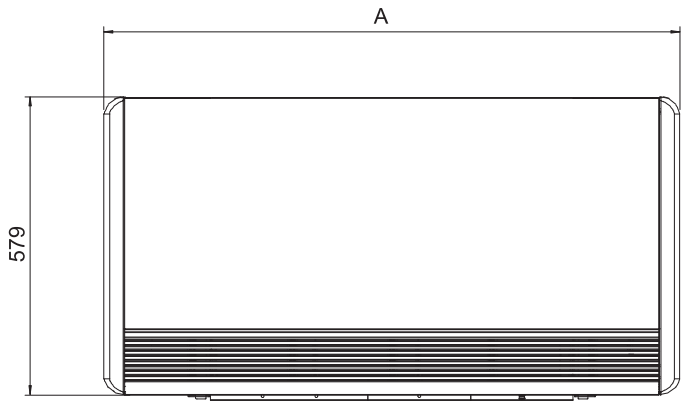
CLIMAVENETA

Product Dimensions

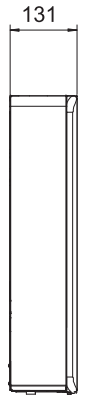
i-LIFE2 SLIM DLMV 080 ATS2 & i-LIFE2 SLIM DLMV 170 ATS2

All measuremens in mm

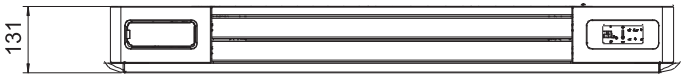
Front View



Side View



Upper View

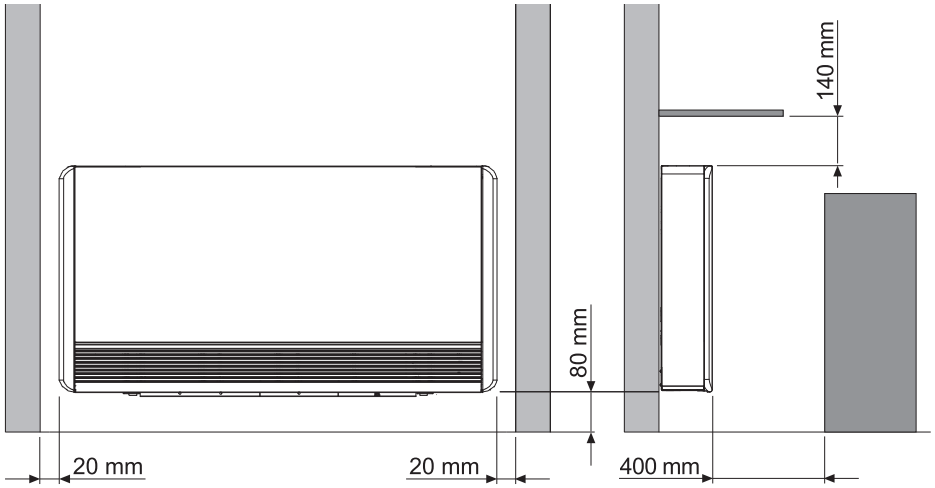


Dimensions	080	170
A	720	920

Installation Location

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

All measurements in mm



ecodan®

Accessories / Optional Extras



PAR-WT60R-E
FTC Wireless Controller Transmitter

DESCRIPTION	MODEL REF.
PUZ	
FTC Wireless Controller Transmitter	PAR-WT60R-E
FTC Wireless Controller Receiver 2m Cable	PAR-WR61R-E
Modbus CN105 Interface	ACC-BEMS-A1MR5
Isolator 20A IP65	ACC-ISO-020
Isolator 32A IP65	ACC-ISO-032
Isolator 40A IP65	ACC-ISO-040
FTC High Temperature Sensor 5m Cable	PAC-TH012HT-E
FTC High Temperature Sensor 30m Cable	PAC-TH012HTL-E
FTC Flow and Return Temperature Sensors 5m Cable	PAC-TH011-E
FTC Cylinder DHW Temp Sensor 5m Cable	PAC-TH011TK2-E
FTC Cylinder DHW Temp Sensor 30m Cable	PAC-TH011TKL2-E
FTC Third Party Indoor Unit Flow Sensor	PAC-FS01-E
FTC G3 Compliance Kit	PAC-WK02UK-E
FTC Particle Filter 22mm < 8.0kW	ACC-FI-HP22
FTC Particle Filter 28mm ≥ 8.0kW	ACC-FI-HP28
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
Compatible Drain Socket Kit	PAC-SH71DS-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
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
EMLITE ECA2v 1Ph System Electricity Meter	ACC-EM-EML-1PH2
SONTEX 749 25% Glycol Mono Hybrid System Heat Meter	ACC-HM-749-G25
SONTEX 449 25% Glycol Mono System Heat Meter	ACC-HM-449-G25
Packaged Cylinder Controller Blanking Plate	PAC-RC02-E
Modbus and BACnet MSTP CN105 Adaptor	MELCOBEMS MINI (A1M+)

Ventilation

Fresh Air Ventilation Range



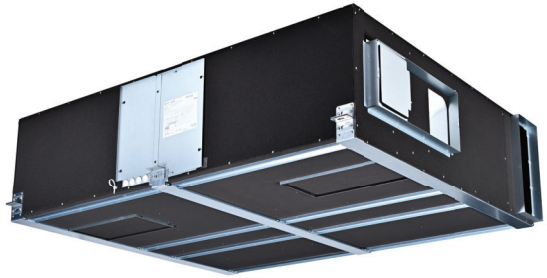


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CP-500CM-L/R Cooling Module	**6.16**
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Fresh Air Ventilation Range

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





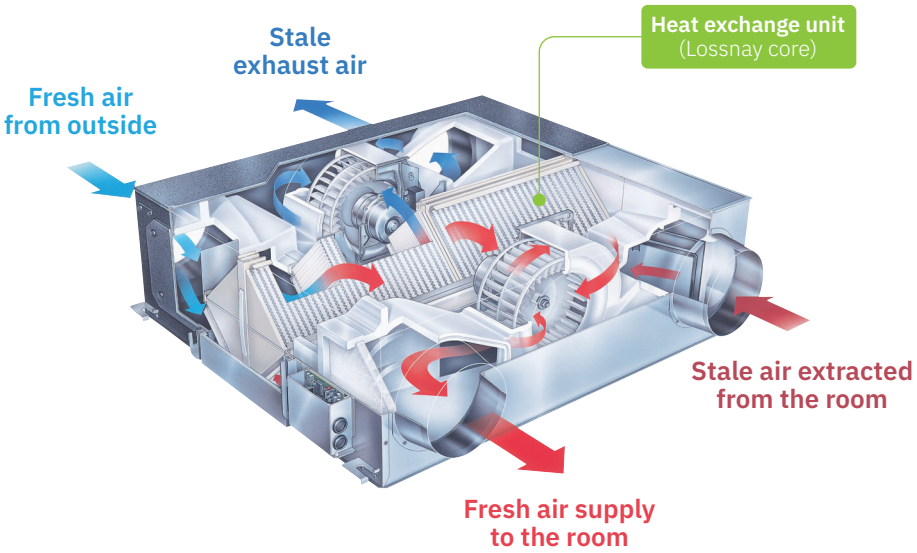
Excellent Air Quality and Heat Exchange Efficiency

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 alterative 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.

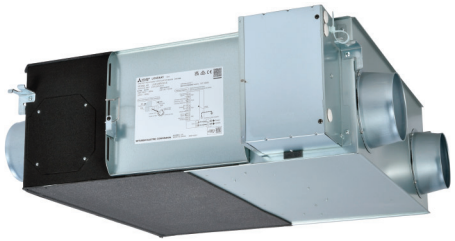
The Mitsubishi Electric AIRME Compact Air Handling Units incorporate a frameless structure to achieve a line-up of units that are as compact as possible, maximising air tightness and improving thermal properties.

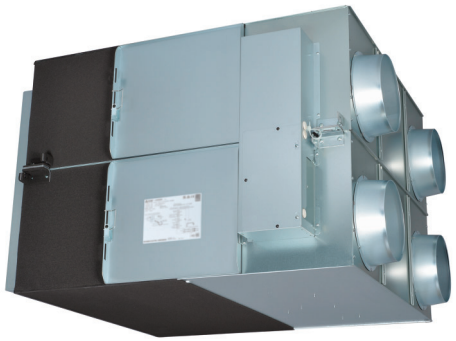
The s-AIRME-G07 HR-P range of AHU's utilises a combination of Mr Slim R32 Power Inverter heat pump technology, energy efficient plate heat exchanger heat recovery technology, and an integrated control system.



LGH-RVX3-E

Commercial Lossnay







Compatible with Mitsubishi Electric plug-and-play CO_2 sensor (powered by the Lossnay unit)

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

- Mitsubishi Electric pioneered heat exchanger enables maximised latent heat exchange, resulting in cost and carbon savings
- Four commissionable fan speeds, settable between 25-100%, with independent supply and return fan control offering low running costs and easier compliance to Part L
- Optional Mitsubishi Electric energy saving CO_2 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
- Easy control interlock with Mr Slim and City Multi air conditioning systems, including M-NET connection for centralised control

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	38	63	88	125	163	200	250	400	500
		l/s	10	17	24	35	45	56	69	111	139
	External Static Pressure	Pa	8	8	10	10	10	11	12	11	11
	Temperature Exchange Efficiency	Heating %	81.5	88.0	82.0	75.0	82.0	80.0	83.5	80.0	83.5
		Cooling %	78.0	85.0	79.0	73.0	80.0	78.0	82.5	78.0	82.5
	Enthalpy Exchange Efficiency	Heating %	80.5	84.0	80.0	73.0	80.0	73.5	75.5	73.5	76.0
		Cooling %	73.0	75.0	74.5	68.0	74.0	70.5	73.5	70.5	71.0
	Specific Fan Power	W/(l/s)	0.96	0.63	0.62	0.43	0.44	0.41	0.39	0.41	0.41
	Input Power	W	10	11	15	15	20	23	27	45	57
	Sound Pressure Level	dB(A)	17.0	17.0	17.0	17.0	17.5	18.0	18.5	18.0	18.0
50% (Default speed 2)	Air Volume	m^3/h	75	125	175	250	325	400	500	800	1000
		l/s	21	35	49	69	90	111	139	222	278
	External Static Pressure	Pa	30	30	40	38	38	43	48	43	43
	Temperature Exchange Efficiency	Heating %	78.0	81.0	79.0	73.5	78.5	78.0	79.5	78.0	79.5
		Cooling %	73.5	79.0	74.0	71.0	74.5	75.5	77.0	75.5	76.0
	Enthalpy Exchange Efficiency	Heating %	76.5	75.5	77.5	72.0	76.5	70.5	68.5	70.5	67.5
		Cooling %	66.0	68.0	68.5	63.0	66.5	65.0	66.0	65.0	65.0
	Specific Fan Power	W/(l/s)	0.72	0.60	0.60	0.49	0.56	0.58	0.60	0.58	0.59
	Input Power	W	15	21	29	34	51	64	83	128	163
	Sound Pressure Level	dB(A)	18.0	19.5	19.0	21.0	24.0	25.0	27.0	26.0	27.5
75% (Default speed 3)	Air Volume	m^3/h	113	188	263	375	488	600	750	1200	1500
		l/s	31	52	73	104	135	167	208	333	417
	External Static Pressure	Pa	68	68	90	85	85	96	107	96	96
	Temperature Exchange Efficiency	Heating %	75.5	78.5	77.0	71.5	75.0	76.5	77.0	76.5	77.5
		Cooling %	70.5	76.5	71.0	67.0	70.0	70.0	72.0	70.0	71.5
	Enthalpy Exchange Efficiency	Heating %	73.5	72.0	74.5	69.5	72.0	65.0	63.0	65.0	64.0
		Cooling %	62.0	63.5	64.5	58.0	60.0	58.5	61.0	58.5	60.0
	Specific Fan Power	W/(l/s)	0.96	0.81	0.84	0.78	0.89	0.96	1.01	0.97	1.00
	Input Power	W	30	42	61	81	120	160	210	324	416
	Sound Pressure Level	dB(A)	22.0	25.0	24.5	27.0	31.5	33.5	35.0	35.0	36.0
100% (Default speed 4)	Air Volume	m^3/h	150	250	350	500	650	800	1000	1600	2000
		l/s	42	69	97	139	181	222	278	444	556
	External Static Pressure	Pa	120	120	160	150	150	170	190	170	170
	Temperature Exchange Efficiency	Heating %	73.5	75.5	75.0	70.5	72.5	75.0	75.5	75.0	76.5
		Cooling %	65.5	70.5	66.5	63.5	65.0	65.0	67.5	65.0	66.5
	Enthalpy Exchange Efficiency	Heating %	70.5	69.0	72.0	68.5	69.5	62.0	60.5	62.0	60.5
		Cooling %	58.0	59.0	60.0	53.5	55.5	54.5	55.5	54.5	57.0
	Specific Fan Power	W/(l/s)	1.32	1.08	1.23	1.33	1.36	1.54	1.58	1.55	1.54
	Input Power	W	55	75	120	185	245	343	438	687	855
	Sound Pressure Level	dB(A)	27.0	30.5	30.5	35.0	37.5	39.0	40.0	41.0	41.5
DUCT SIZE		mm	100	150	150	200	200	250	250	(SA,RA)250 (OA,EA)270 x 700	(SA,RA)250 (OA,EA)270 x 700
WEIGHT		kg	20	22	30	33	41	47	53	96	108
DIMENSIONS	Width x Depth x Height	mm	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	5.40
FUSE RATING (BS88) – HRC (A)		A	6	6	6	6	6	6	6	10	10
HEAT EXCHANGER			Paper with specially treated Cellulose Membrane								
STANDARD FILTER			ISO 16890 Coarse 60%*1								

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'.

Accessories

Controls

PZ-62DR-EB
Lossnay remote controller for LGH-RVX3-E

PZ-4GS-E
External signal relay 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
ePM$_1$ 75% grade filter for LGH-15RVX3-E

PZ-25RFP3-E
ePM$_1$ 75% grade filter for LGH-25RVX3-E

PZ-35RFP3-E
ePM$_1$ 75% grade filter for LGH-35RVX3-E

PZ-50RFP3-E
ePM$_1$ 75% grade filter for LGH-50RVX3-E

PZ-65RFP3-E
ePM$_1$ 75% grade filter for LGH-65RVX3-E

PZ-80RFP3-E
ePM$_1$ 75% grade filter for LGH-80RVX3-E / LGH-160RVX3-E (2 sets required)

PZ-100RFP3-E
ePM$_1$ 75% grade filter for LGH-100RVX3-E / LGH-200RVX3-E (2 sets required)

Control Sensors

PZ-70CSW-E
Wall mounted plug and play CO_2 sensor with traffic light signals for LGH-RVX3-E

PZ-70CSD-E
Duct mounted plug and play CO_2 sensor for LGH-RVX3-E

PTH-3202
Constant pressure transducer for LGH-RVX3-E

Vertical Mounting Brackets

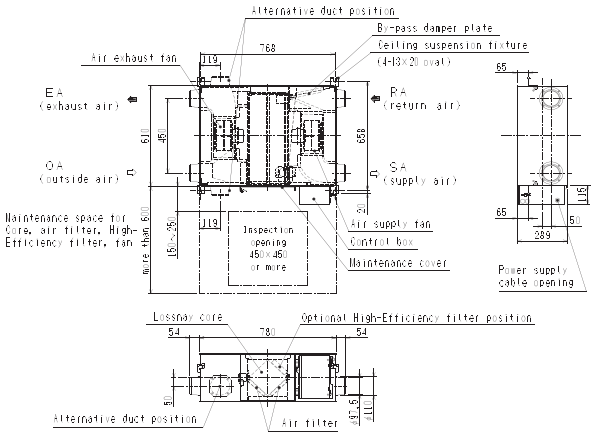
PZ-1VS-E
Vertical mounting bracket for LGH-15-50RVX3-E

PZ-2VS-E
Vertical mounting bracket for LGH-65-100RVX3-E

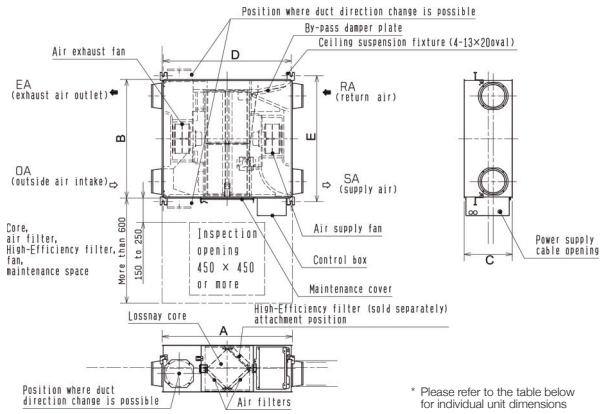
Weather Proof Housings

Weather proof housings are also available

Product Dimensions LGH-15RVX3-E



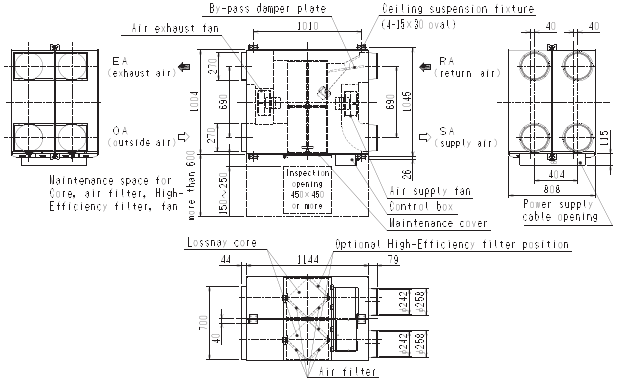
Product Dimensions LGH-25-100RVX3-E



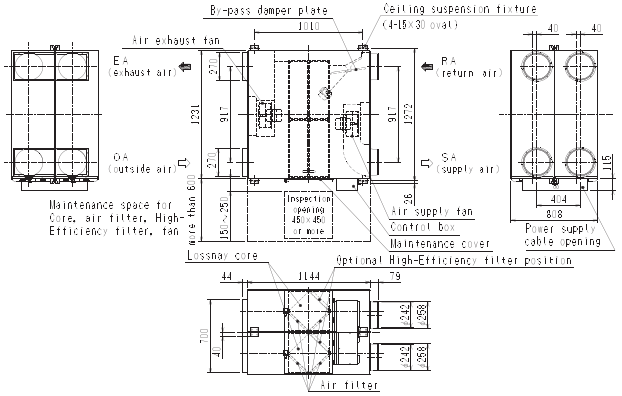
* Please refer to the table below for individual unit dimensions

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



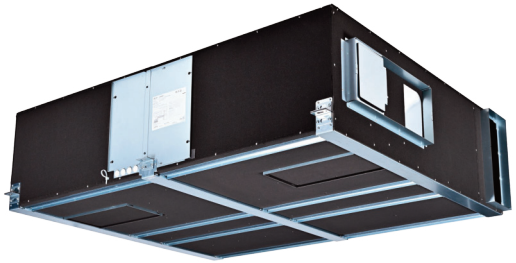
LGH-RVXT3-E

Commercial Lossnay

Lossnay **LGH-RVXT3-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

- Mitsubishi Electric pioneered heat exchanger enables maximised latent heat exchange, resulting in cost and carbon savings
- Low unit height (500mm) and lightweight structure, ideal for ceiling installation
- Four commissionable fan speeds, settable between 25-100%, with independent supply and return fan control offering low running costs and easier compliance to Part L
- Optional Mitsubishi Electric energy saving CO_2 sensors allow automatic incremental fan control for a healthy indoor environment; sensors powered by Lossnay unit
- Easy control interlock with Mr Slim and City Multi air conditioning systems, including M-NET connection for centralised control
- Dual-Barrier coating on the fan prevents dust and grease accumulation, ensuring long-term efficient operation





Compatible with Mitsubishi Electric plug-and-play CO_2 sensor (powered by the Lossnay unit)

MODEL			LGH-160RVXT3-E	LGH-200RVXT3-E	LGH-250RVXT3-E
25% (DEFAULT SPEED 1)	Air Volume	m^3/h	400	500	625
		l/s	111	139	174
	External Static Pressure	Pa	12	12	12
	Temperature Exchange Efficiency	Heating %	88.0	86.0	84.0
		Cooling %	83.0	82.0	81.0
	Enthalpy Exchange Efficiency	Heating %	85.5	84.5	81.5
		Cooling %	78.0	75.0	73.0
	Specific Fan Power	W/(l/s)	0.41	0.40	0.50
	Input Power	W	46	56	86
	Sound Pressure Level	dB(A)	19.5	21.0	23.0
50% (DEFAULT SPEED 2)	Air Volume	m^3/h	800	1000	1250
		l/s	222	278	347
	External Static Pressure	Pa	48	48	48
	Temperature Exchange Efficiency	Heating %	85.5	83.0	80.0
		Cooling %	79.0	78.0	76.5
	Enthalpy Exchange Efficiency	Heating %	83.0	81.5	78.0
		Cooling %	73.0	67.5	66.0
	Specific Fan Power	W/(l/s)	0.65	0.69	0.82
	Input Power	W	144	192	284
	Sound Pressure Level	dB(A)	26.0	28.0	31.5
75% (DEFAULT SPEED 3)	Air Volume	m^3/h	1200	1500	1875
		l/s	333	417	521
	External Static Pressure	Pa	107	107	107
	Temperature Exchange Efficiency	Heating %	83.0	81.0	78.0
		Cooling %	75.0	73.0	70.5
	Enthalpy Exchange Efficiency	Heating %	81.0	79.5	76.0
		Cooling %	65.5	61.0	59.0
	Specific Fan Power	W/(l/s)	1.10	1.20	1.34
	Input Power	W	368	498	696
	Sound Pressure Level	dB(A)	33.0	35.0	38.0
100% (DEFAULT SPEED 4)	Air Volume	m^3/h	1600	2000	2500
		l/s	444	556	694
	External Static Pressure	Pa	190	190	190
	Temperature Exchange Efficiency	Heating %	82.0	80.0	77.0
		Cooling %	70.0	67.5	65.0
	Enthalpy Exchange Efficiency	Heating %	80.0	78.5	75.0
		Cooling %	61.5	56.5	54.0
	Specific Fan Power	W/(l/s)	1.59	1.88	2.09
	Input Power	W	708	1044	1448
	Sound Pressure Level	dB(A)	38.0	40.0	44.0
DUCT SIZE		mm	Outlets (SA/EA): 250 x 650 / Inlets (RA/OA): 465 x 220		
WEIGHT		kg	172	172	172
DIMENSIONS	Width x Depth x Height	mm	2100 x 1600 x 500		
ELECTRICAL POWER SUPPLY			3-phase, 380-415v, 50Hz*2		
MAXIMUM CURRENT		A	3.0	3.9	5.0
HEAT EXCHANGER			Paper with Specially Treated Cellulose Membrane		
STANDARD FILTER			ISO 16890 Coarse 60%*1		

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'.

*2: 3 phase 4 wire power must be connected. The unit only uses loads L2 and L3, meaning L1 does not draw load.

Accessories

Remote Controllers

PZ-62DR-EB

Lossnay remote controller for LGH-RVXT3-E

PZ-4GS-E

External signal relay for LGH-RVXT3-E

Filters

PZ-250TRF-E

Standard replacement filter (Coarse 60%) for LGH-RVXT3-E

PZ-250TPF-E

ISO 16890 ePM_1 75%, $ePM_{2.5}$ 80%, ePM_{10} 95% filter for LGH-RVXT3-E

Control Sensors

PZ-70CSW-E

Wall mounted plug and play CO_2 sensor with traffic light signals for LGH-RVXT3-E

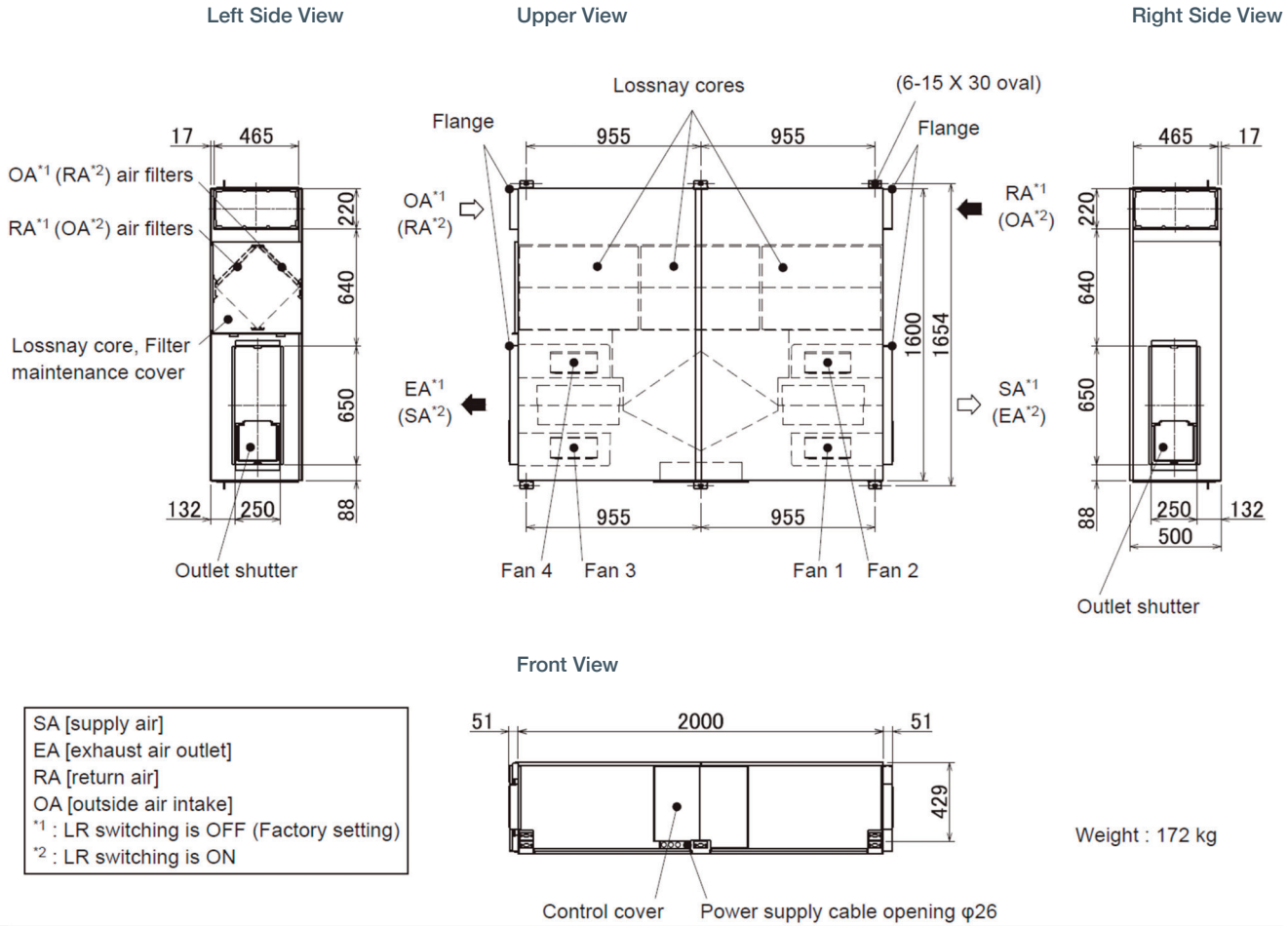
PZ-70CSD-E

Duct mounted plug and play CO_2 sensor for LGH-RVVXT3-E

PTH-3202

Constant pressure transducer for LGH-RVXT3-E

Product Dimensions LGH-160/200/250RVXT3-E



SA [supply air]
EA [exhaust air outlet]
RA [return air]
OA [outside air intake]
*1 : LR switching is OFF (Factory setting)
*2 : LR switching is ON

Weight : 172 kg

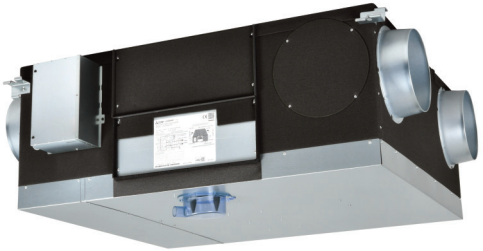
LGH-RVS-E

Commercial Lossnay

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 Mitsubishi Electric energy saving CO_2 sensors allow automatic incremental fan control for a healthy indoor environment; sensors powered by Lossnay unit
- Four commissionable fan speeds, settable between 25-100%, with independent supply and return fan control offering low running costs and easier compliance to Part L
- Easy control interlock with Mr Slim and City Multi air conditioning systems, including M-NET connection for centralised control
- Integrated bypass damper for free cooling
- In-built condensate drainage traps





Compatible with Mitsubishi Electric plug-and-play CO_2 sensor (powered by the Lossnay unit)

MODEL			LGH-50RVS-E	LGH-80RVS-E	LGH-100RVS-E
25%	Air Volume	l/s	35	56	69
		m^3/hr	125	200	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	69	111	139
		m^3/hr	250	400	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	104	167	208
		m^3/hr	375	600	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	139	222	278
		m^3/hr	500	800	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 SUUPPLY			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

Controls

PZ-62DR-EB

Lossnay remote controller for LGH-RVS-E

PZ-4GS-E

External signal relay 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

ePM$_{10}$ 80% / M6 filter for LGH-50RVS-E

PZ-S80RFM-E

ePM$_{10}$ 80% / M6 filter for LGH-80RVS-E

PZ-S100RFM-E

ePM$_{10}$ 80% / M6 filter for LGH-100RVS-E

PZ-S50RFH-E

ePM$_{1}$ 65% / F8 filter for LGH-50RVS-E

PZ-S80RFH-E

ePM$_{1}$ 65% / F8 filter for LGH-80RVS-E

PZ-S100RFH-E

ePM$_{1}$ 65% / F8 filter for LGH-100RVS-E

Control Sensors

PZ-70CSW-E

Wall mounted plug and play CO_2 sensor with traffic light signals for LGH-RVS-E

PZ-70CSD-E

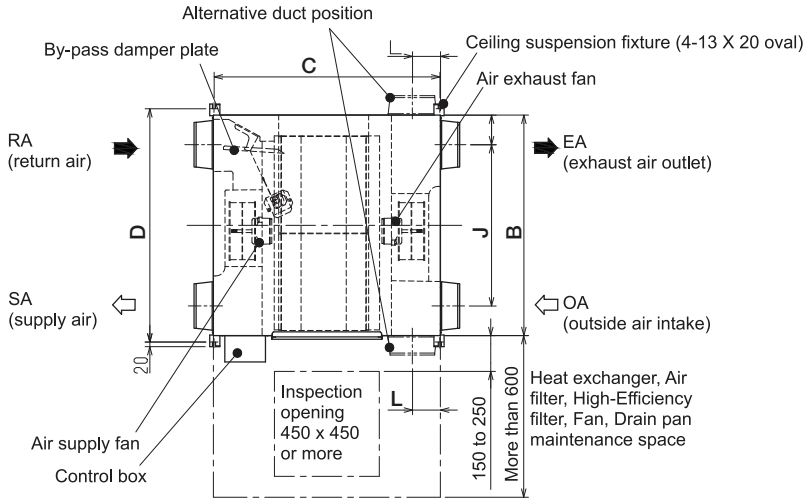
Duct mounted plug and play CO_2 sensor for LGH-RVS-E

PTH-3202

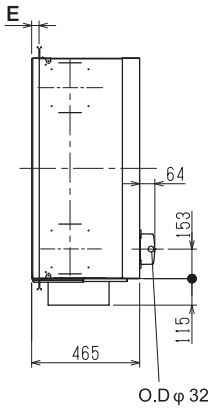
Constant pressure transducer for LGH-RVS-E

Product Dimensions LGH-50/80/100RVS-E

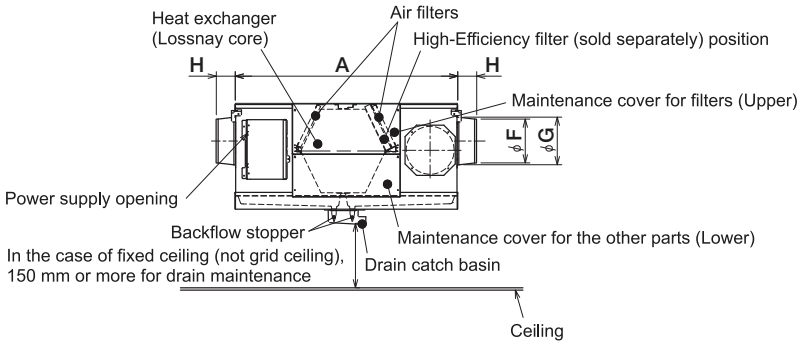
Upper View



Side View



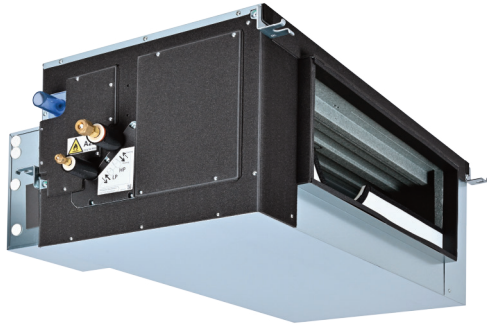
Front View

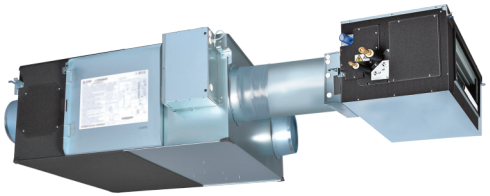


	A	B	C	D	E	F	G	H	J	L
LGH-50RVS-E	974	946	969	1001	32	192	208	83	692	120
LGH-80RVS-E	1185	997	1179	1051	55	242	258	82	683	161
LGH-100RVS-E	1185	1224	1179	1279	55	242	258	82	910	161

GUX-MS-E

Lossnay Outdoor Air Processing Unit





Designed to work seamlessly with City Multi YXM VRF and the Lossnay RVX(T)3 MVHR ranges, the **GUX-MS-E** delivers treated outdoor air with confidence. The DX coil provides heated or cooled fresh air into commerical applications improving comfort, simplifying design and giving installers and specifiers the reassurance of one trusted Mitsubishi Electric system.

Key Features & Benefits

- Seamless Air Treatment System - GUX units connect with City Multi YXM and Lossnay RVX(T)3 ranges to deliver a simple, effective solution for heated or cooled fresh air supply
- Lower GWP R32 Refrigerant - for reduced carbon impact and future-ready legislation compliance
- Optional Low Level Leak Detector (PAC-SL72SA-E) - provides long service life, easy maintenance and supports compliance and safety regulations
- Wide Airflow Capability (500–2500 m³/h) - delivers high airflow without the size, weight, or installation demands of traditional AHUs, enabling solutions where space is limited
- Flexible Air Control - supports return air temperature control with or without supply air temperature limit capabilities, enabling the right approach for each building while maintaining occupant comfort
- Outdoor Air Temperature Conditioning - provides greater control of incoming fresh air temperature, improving comfort and supporting flexible system design

R32 R410A

MODEL		GUX-MS32-E		GUX-MS50-E		GUX-MS80-E		GUX-MS100-E
COMPATIBLE LOSSNAY(S) MVHR		LGH-50RVX3-E	LGH-65RVX3-E	LGH-80RVX3-E	LGH-100RVX3-E	LGH-160RVX(T)3-E	LGH-200RVX(T)3-E	LGH-250RVXT3-E
COIL CAPACITY (kW)*1	Heating (Nominal)	3.2	4.0	5.0	6.3	8.0	10.0	12.5
	Cooling (Nominal)	2.8	3.6	4.5	5.6	7.1	9.0	11.2
	UK Heating	3.2	4.0	5.0	6.3	8.0	10.0	12.5
	UK Cooling	2.5	3.2	4.0	5.0	6.4	8.1	10.0
POWER INPUT (kW)	Heating (Nominal)	0.0025		0.0025		0.0025		0.0025
	Cooling (Nominal)	0.0124		0.0124		0.0124		0.0124
COIL OPERATIONAL AIRFLOW RANGE (l/s)		97 - 222		144 - 322		222 - 625		222 - 778
REQUIRED LOSSNAY FAN SETTING (%)		70 - 100		65 - 100		50 - 100		35 - 100
VENTILATION AIRFLOW RANGE (l/s)*2		67 - 222		67 - 322		67 - 625		67 - 778
DUCT SPIGOT SIZE (mm)	Inlet	200 Round		250 Round		650 x 250		650 x 250
	Outlet	520 x 200		750 x 250		750 x 250		750 x 250
WEIGHT (kg)		21		26		28		28
DIMENSIONS (mm)	Width	813		1035		1130		1130
	Depth	492		492		461		461
	Height	330		394		404		404
ELECTRICAL SUPPLY		220-240v, 50Hz						
PHASE		Single						
MAX RUNNING CURRENT (A)		<0.1						
FUSE RATING (BS88) - HRC (A)		6						

Notes:
*1 The cooling / heating capacity does not take into account heat recovery of the Lossnay MVHR unit.
*2 Achievable airflow rate should be calculated using curves of Lossnay fan, GUX pressure drop, and ductwork system.

Accessories

Controls

PAR-42MAAB

Standard white wired remote controller for GUX-MS-E

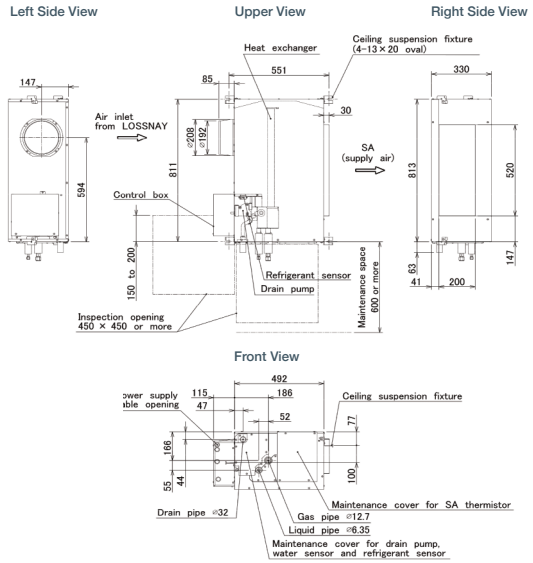
PAR-42MAAPB

Standard black wired remote controller for GUX-MS-E

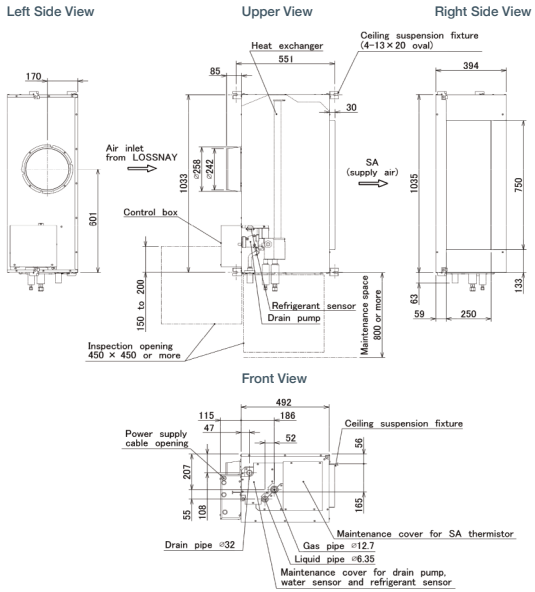
AE-C400E

Centralised controller for GUX-MS-E

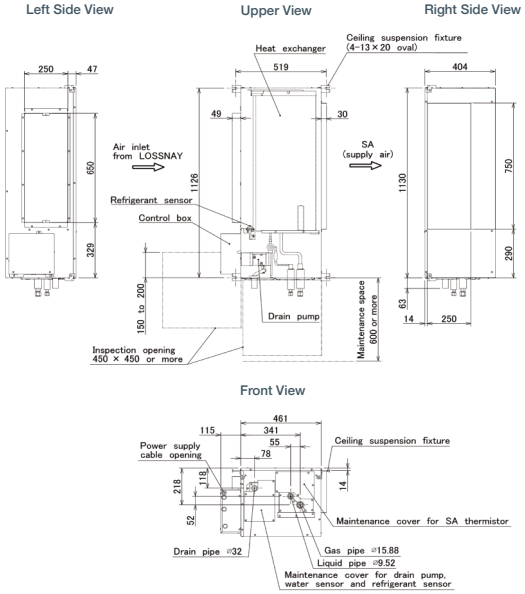
Product Dimensions GUX-MS32-E



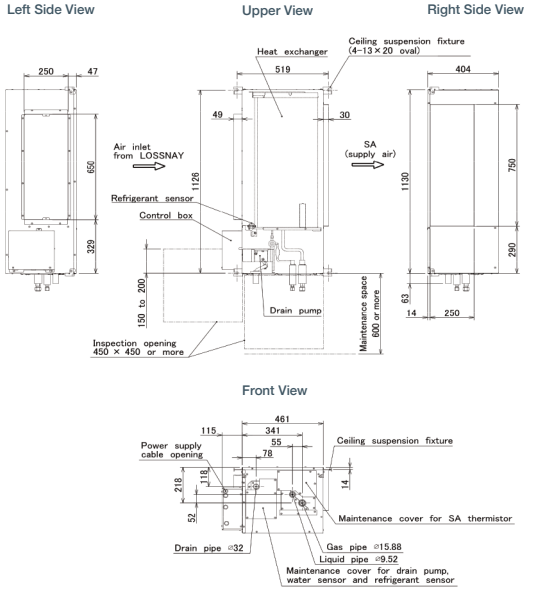
Product Dimensions GUX-MS50-E



Product Dimensions GUX-MS80-E



Product Dimensions GUX-MS100-E



VL-CZPVU-L/R-E

Residential Lossnay



The **VL-CZPVU-L/R-E** residential Lossnay range of Mechanical Ventilation with Heat Recovery (MVHR) units create an environment of constant clean and healthy air at home. These systems are designed to continuously extract from bathrooms, kitchens, toilets and utility rooms where air can become polluted, whilst supplying a balanced flow of fresh air from outside to spaces such as bedrooms and living rooms. The Lossnay unit minimises the energy lost by recovering the heat from the extracted air, transferring this to the supplied fresh air.

Key Features & Benefits

- Ultra quiet noise levels ensure minimal disturbance
- Optional filters placed within the MVHR unit for particulate matter and NOx allow for improved indoor air quality
- Full summer bypass function with auto mode and settable temperature parameters enable customisable control
- Digital controller included for ease of commissioning and operation
- Fan boost signal via live switch or volt free contact, with settable delay and overrun timers
- Cloud control enables remote monitoring and 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	VL-520CZPVU-R/L-E
AIRFLOW (l/s)	30%-50%-70%-100%	21-35-49-69	27-44-62-89	42-69-97-139	42-69-97-139
EXTERNAL STATIC PRESSURE (Pa)	30%-50%-70%-100%	14-38-74-150	14-38-74-150	18-50-98-200	18-50-98-310
SOUND PRESSURE LEVEL (dBA)*1	30%-50%-70%-100%	<15-16-22-31	<15-19-26-35	<15-22-29-37	<15-22-29-39
DIMENSIONS (mm)	Width x Depth x Height	563 x 595 x 386	623 x 658 x 462	632 x 725 x 586	632 x 725 x 586
WEIGHT (kg)		26	32	39	39
ELECTRICAL POWER SUPPLY		220-240v, 50Hz			
MAX RUNNING CURRENT (A)		1.0	1.32	2.3	2.4
SUMMER BYPASS		Full Bypass			
SPIGOT DIAMETER (mm)		125	150	160 / 180	160 / 180
STANDARD FILTER (ISO 16890:2016/EN779:2012)	Outside Air	Coarse 55% / G3			
	Return Air	Coarse 55% / G3			
OPTIONAL FILTER(S)	Supply Air	NOx 90%			
	Outside Air	ePM2.5 50%			

Notes: *1 Sound pressure level dB(A) level at 3m calculated from sound power spectrum. Full sound power spectrum at duty conditions available for breakout and in-duct upon request.

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

Accessories

Remote Controllers

P-RCC-E

Remote controller cover and 1m cable with noise filter for VL-CZPVU-E (extendable to 200m)

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-500/520CZPVU-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-500/520CZPVU-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-500/520CZPVU-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-500/520CZPVU-E

Control Sensors

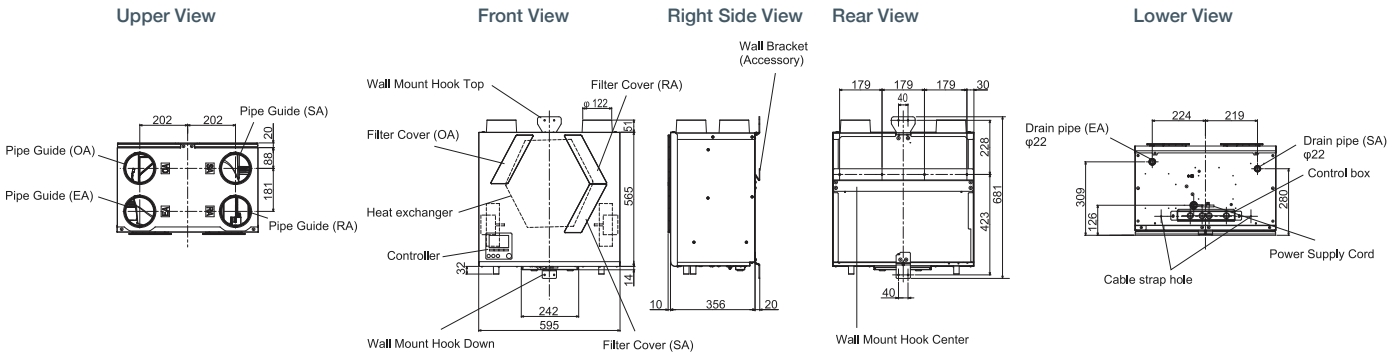
P-09CSW-E

Wall mounted CO_2 sensor for VL-CZPVU-E

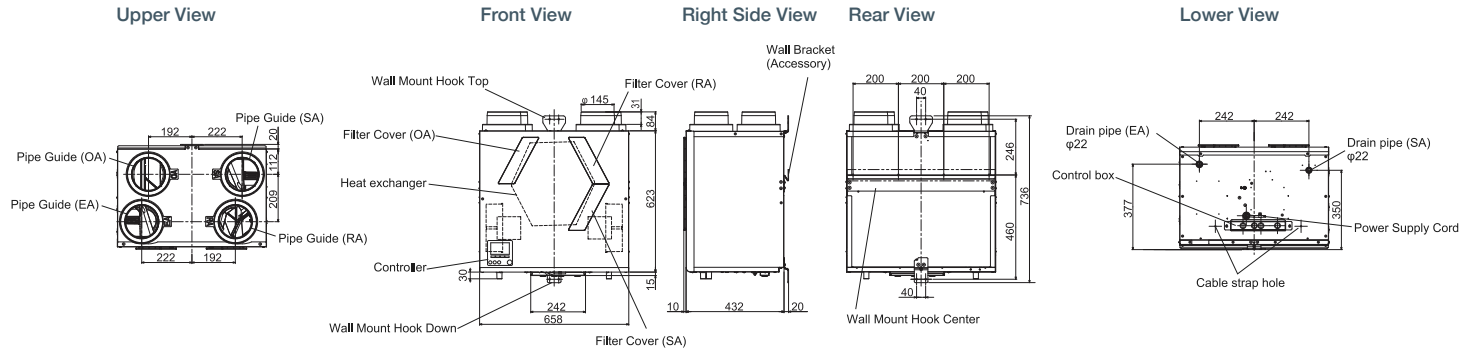
P-09HSD-E

Duct mounted plug and play humidity sensor for VL-CZPVU-E

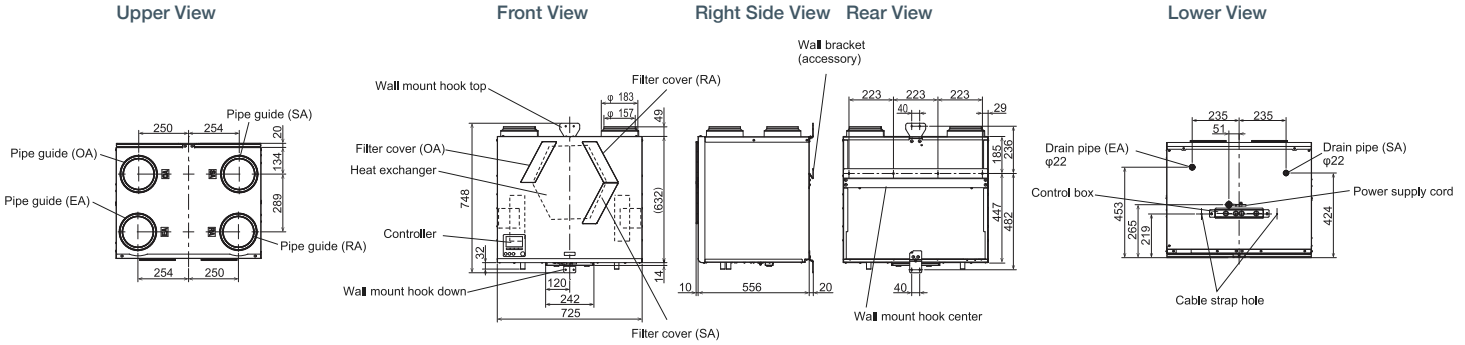
Product Dimensions VL-250CZPVU-L/R-E



Product Dimensions VL-350CZPVU-L/R-E



Product Dimensions VL-500/520CZPVU-L/R-E



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

CP-500CM-L/R

Cooling Module



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

Featuring a self-contained direct expansion system, advanced inverter technology, and lower GWP R32 refrigerant, it provides efficient cooling while meeting sustainability targets.

Designed with Part O compliance at its core, it offers flexible activation temperatures, customisable capacity steps, and overshoot temperature controls, giving you total confidence in maintaining compliant indoor conditions.

Key Features & Benefits

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

R32

MODEL		CP-500CM-L/R
OPERATION AIR FLOW (l/s)		50 - 140
DIMENSIONS (mm)	Module	725 x 556 x 500
(Width x Depth x Height)	System	725 x 586 x 1182
WEIGHT (kg)	Module	38
	System	77
REFRIGERANT CHARGE (kg)		0.55
COMPRESSOR MANAGEMENT		Inverter
SOUND PRESSURE LEVEL (dB(A))*1		33
DUCT SPIGOT SIZE (mm)		160
ELECTRICAL SUPPLY		220-240v, 50Hz
MAX RUNNING CURRENT (A)		7.6
FUSE RATING (BS88) - HRC (A)		10

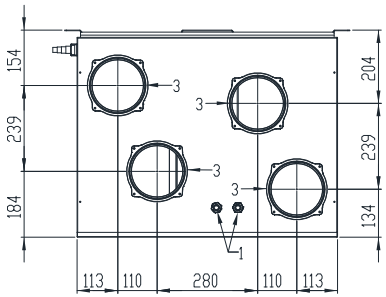
Notes: *1 Sound pressure level at 3m calculated from sound power spectrum measured at 80 l/s and 350 Pa with VL-520CZPVU-L/R-E. Full sound power spectrum at duty conditions available for breakout and in-duct upon request.

MODEL		PROCON OVERHEAT THERMOSTAT (OHT)
DESCRIPTION		Manages activation and operation of cooling function. Reads internal temperature against set activation point, and manages interlock signals and system status
CONNECT TO		VL-500CZPVU-L/R-E and VL-520CZPVU-L/R-E CP-500CM-L/R
ELECTRICAL SUPPLY		Powered via Lossnay MVHR CN105
DIMENSIONS (mm)	Width x Depth x Height	190 x 42 x 180
WEIGHT (kg)		1.1
CONTROL	Temperature Input	Up to 4x 10K3A1*1
	Heating Interlock	VFC
	Manual Activation	VFC
	Block	VFC

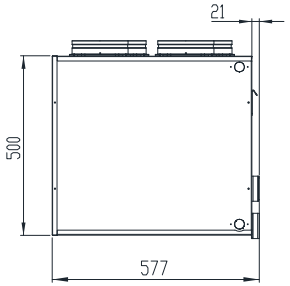
Notes: *1 1 x 10K3A1 temperature sensor supplied with Procon OHT.
VFC: Volt Free Contact

COOLING MODULE

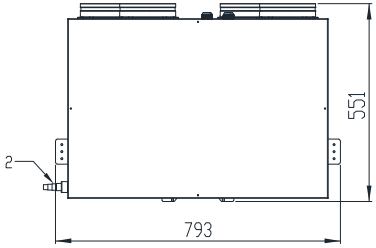
Upper View



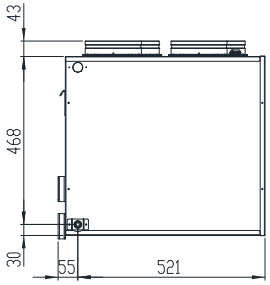
Right Side View



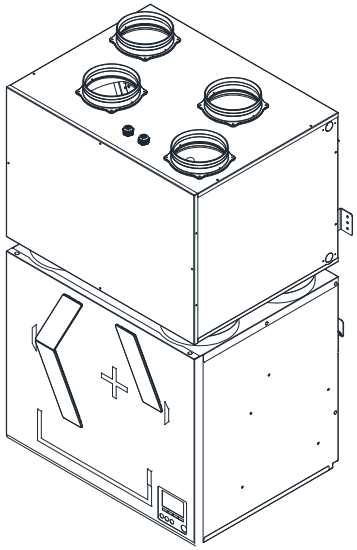
Front View

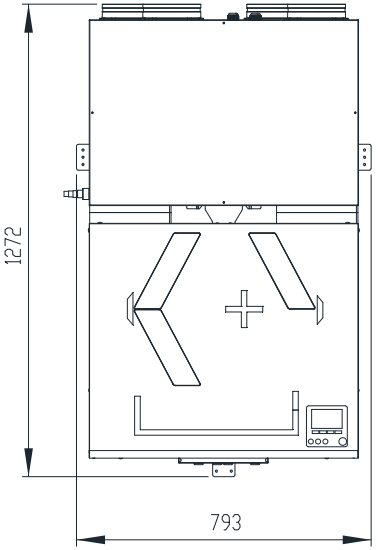


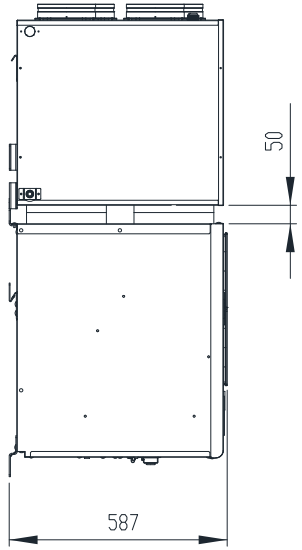
Left Side View



LOSSNAY + COOLING MODULE







s-AIRME-G07 HR-P C

Air Handling Unit



The Mitsubishi Electric AIRME Compact Air Handling Units (AHU's) incorporate a frameless structure to achieve a line-up of units that are as compact as possible, maximising air tightness and improving thermal properties.

The **s-AIRME-G07 HR-P** range of AHU's utilises a combination of Mr Slim R32 Power Inverter heat pump technology, energy efficient plate heat exchanger heat recovery technology, and an integrated control system. This integration of technologies results in highly advanced, efficient systems that are easy to install and commission, making them ideal for offices, shopping centres, theatres and other large, open spaces.

Key Features & Benefits

- Mr Slim R32 Power Inverter heat pump technology enables energy efficient tempering of fresh air
- Plate heat exchanger for effective heat recovery
- Self-supporting, one-piece construction for maximum air tightness and minimal thermal bridging
- Constant volume EC plug fans for greater efficiency and cost savings
- Easy air flow commissioning with selectable target air volume control
- Fully integrated controls and single point power supply, regardless of accessories, for ease of installation
- Wide range of optional accessories, making these units a perfect solution for a variety of applications

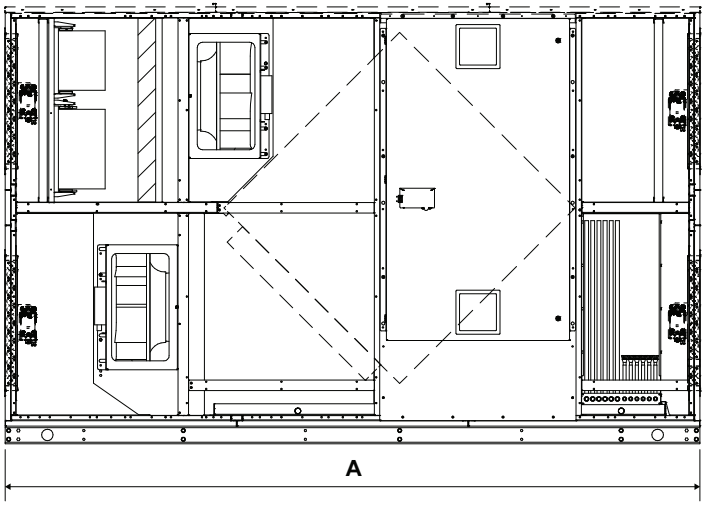
R32

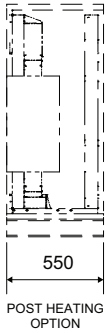
MODEL		s-AIRME-G07 HR-P C 3000	s-AIRME-G07 HR-P C 5000	s-AIRME-G07 HR-P C 7500	s-AIRME-G07 HR-P C 10000	s-AIRME-G07 HR-P C 12500	s-AIRME-G07 HR-P C 15000
RATED AIR VOLUME (m^3/s)		0.83	1.38	2.08	2.77	3.47	4.16
AIR VOLUME RANGE (m^3/s)		0.56 - 0.83	0.91-1.38	1.19 - 2.08	1.73 - 2.77	2.19 - 3.47	2.35 - 4.16
EXTERNAL STATIC PRESSURE (Pa)	Standard fans	500	300	500	300 / 500*1	300	500
	Uprated fans	-	500	-	500	500	-
COOLING CAPACITY (kW)	DX Coil Capacity	19.5	31.5	43.5	63.4	77.9	87.5
	Heat Recovery Capacity	8.89	14.8	22.7	30	37.3	44.5
	Total Capacity	28.39	46.3	66.2	93.4	115.2	132
HEATING CAPACITY (kW)	DX Coil Capacity	16.7	27.2	36.6	53.5	66.8	73.2
	Heat Recovery Capacity	20.6	34.3	53.1	70.1	87.2	110
	Total Capacity	37.3	61.5	89.7	123.6	154	183.2
HEAT RECOVERY EFFICIENCY (%)	Cooling	73.8	73.5	75.3	74.6	74.3	73.9
	Heating	72.7	72.7	74.6	74	73.6	73.9
SPECIFIC FAN POWER (SFPint) (W/(l/s))		0.775	0.936	0.812	0.736	0.81	0.691
SOUND POWER LEVEL (dB(A))	Fresh/Outdoor	82	89	85	85	86	88
	Supply	82	89	85	85	86	88
	Return	80	88	84	85	86	87
	Exhaust	80	88	84	85	86	87
	Breakout	64	74	67	67	71	70
UNIT DIMENSIONS (WxDxH) (mm)		2950 x 1385 x 1675	2950 x 1785 x 1675	3200 x 1885 x 2200	3650 x 2185 x 2280	3775 x 2385 x 2480	3946 x 2585 x 2480
BASE WEIGHT (kg)		750	950	1250	1600	1750	2100
STANDARD FILTRATION	Fresh air 1st stage	ISO Coarse 50% / G4					
	Fresh air 2nd stage	ISO ePM1 50% / F7 Bag Filter					
	Return air	ISO Coarse 50% / G4					
CONSTRUCTION	Panels	60mm sandwich panels with thermal break, galvinised steel sheets with a pre-painted external finish					
	Insulation	45 kg/m^3 density polyurethane foam					
EN1886 ACHIEVED CLASSES (Deflection/Leakage/Thermal transmittance/Thermal bridging/Filter bypass leakage)		D1(M) / L1(M) / T2 / TB2 / F9(M)					
ELECTRICAL POWER REQUIREMENTS		400VAC / 3ph+Positive Earth / 50Hz					
REQUIRED OUTDOOR UNITS	Power Inverter (R32)	1 x PUZ-ZM200	1 x PUZ-ZM125 1 x PUZ-ZM200	1 x PUZ-ZM200 1 x PUZ-ZM250	2 x PUZ-ZM200 1 x PUZ-ZM250	4 x PUZ-ZM200	2 x PUZ-ZM200 2 x PUZ-ZM250
OUTDOOR UNIT PIPE RUN (m)		30	30	30	30	30	30

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 300Pa for the supply fan, 500Pa for the return fan.

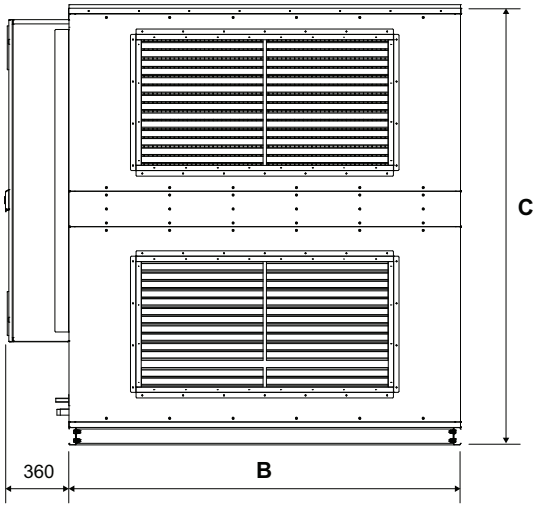
RATED CONDITIONS	SUMMER		WINTER	
INDOOR	23°C DB	50% RH	21°C DB	50% RH
OUTDOOR	35°C DB	50% RH	-5°C DB	85% RH

Front View

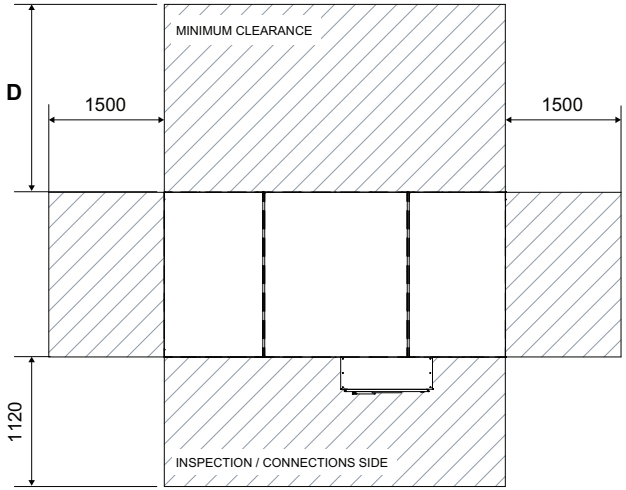




Side View



Upper View



Model	A (mm)	B (mm)	C (mm)	D (mm)
3000	2950	1025	1675	1225
5000	2950	1425	1675	1625
7500	3200	1525	2200	1725
10000	3650	1825	2280	2025
12500	3755	2025	2480	2225
15000	3946	2225	2480	2425

Note: Base unit. Options may change dimensions and/or weight.

Ventilation Accessories / Optional Extras

DESCRIPTION	MODEL REF.
Remote Controllers	
Lossnay Remote Controller for LGH-RVX3-E, LGH-RVXT3-E and LGH-RVS-E	PZ-62DR-EB
LGH-RVX3-E	
Standard replacement filter (Coarse 60%) for LGH-15RVX3-E	PZ-15RF3-E
Standard replacement filter (Coarse 60%) for LGH-25RVX3-E	PZ-25RF3-E
Standard replacement filter (Coarse 60%) for LGH-35RVX3-E	PZ-35RF3-E
Standard replacement filter (Coarse 60%) for LGH-50RVX3-E	PZ-50RF3-E
Standard replacement filter (Coarse 60%) for LGH-65RVX3-E	PZ-65RF3-E
Standard replacement filter (Coarse 60%) for LGH-80RVX3-E / LGH-160RVX3-E (2 sets required)	PZ-80RF3-E
Standard replacement filter (Coarse 60%) for LGH-100RVX3-E / LGH-200RVX3-E (2 sets required)	PZ-100RF3-E
ePM_1 75% grade filter for LGH-15RVX3-E	PZ-15RFP3-E
ePM_1 75% grade filter for LGH-25RVX3-E	PZ-25RFP3-E
ePM_1 75% grade filter for LGH-35RVX3-E	PZ-35RFP3-E
ePM_1 75% grade filter for LGH-50RVX3-E	PZ-50RFP3-E
ePM_1 75% grade filter for LGH-65RVX3-E	PZ-65RFP3-E
ePM_1 75% grade filter for LGH-80RVX3-E / LGH-160RVX3-E (2 sets required)	PZ-80RFP3-E
ePM_1 75% grade filter for LGH-100RVX3-E / LGH-200RVX3-E (2 sets required)	PZ-100RFP3-E
Wall mounted plug and play CO_2 sensor with traffic light signals for LGH-RVX3-E	PZ-70CSW-E
Duct mounted plug and play CO_2 sensor for LGH-RVX3-E	PZ-70CSD-E
Vertical mounting bracket for LGH-15-50RVX3-E	PZ-1VS-E
Vertical mounting bracket for LGH-65-100RVX3-E	PZ-2VS-E
External signal relay for LGH-RVX3-E	PZ-4GS-E
Constant pressure transducer for LGH-RVX3-E	PTH-3202
LGH-RVXT3-E	
Standard replacement filter (coarse 60%) for LGH-RVXT3-E	PZ-250TRF-E
ISO 16890 ePM_1 75%, $ePM_{2.5}$ 80%, ePM_{10} 95% filter for LGH-RVXT3-E	PZ-250TPF-E
Wall mounted plug and play CO_2 sensor with traffic light signals for LGH-RVXT3-E	PZ-70CSW-E
Duct mounted plug and play CO_2 sensor for LGH-RVXT3-E	PZ-70CSD-E
External signal relay for LGH-RVXT3-E	PZ-4GS-E
Constant pressure transducer for LGH-RVXT3-E	PTH-3202
LGH-RVS-E	
Replacement Coarse 35% / G3 filter for LGH-50RVS-E	PZ-S50RF-E
Replacement Coarse 35% / G3 filter for LGH-80RVS-E	PZ-S80RF-E
Replacement Coarse 35% / G3 filter for LGH-100RVS-E	PZ-S100RF-E
ePM_{10} 80% / M6 filter for LGH-50RVS-E	PZ-S50RFM-E
ePM_{10} 80% / M6 filter for LGH-80RVS-E	PZ-S80RFM-E
ePM_{10} 80% / M6 filter for LGH-100RVS-E	PZ-S100RFM-E
ePM_1 65% / F8 filter for LGH-50RVS-E	PZ-S50RFH-E
ePM_1 65% / F8 filter for LGH-80RVS-E	PZ-S80RFH-E
ePM_1 65% / F8 filter for LGH-100RVS-E	PZ-S100RFH-E
Wall mounted plug and play CO_2 sensor with traffic light signals for LGH-RVS-E	PZ-70CSW-E
Duct mounted plug and play CO_2 sensor for LGH-RVS-E	PZ-70CSD-E
External signal relay for LGH-RVS-E	PZ-4GS-E
Constant pressure transducer for LGH-RVS-E	PTH-3202
Weather Proof Housings	
Lossnay weather proof housing for LGH-25RVX3-E	KS4-KWH25RVX
Lossnay weather proof housing for LGH-35RVX3-E	KS4-KWH35RVX
Lossnay weather proof housing for LGH-50RVX3-E	KS4-KWH50RVX
Lossnay weather proof housing for LGH-65RVX3-E	KS4-KWH65RVX3
Lossnay weather proof housing for LGH-80RVX3-E	KS4-KWH80RVX
Lossnay weather proof housing for LGH-100RVX3-E	KS4-KWH100RVX
Lossnay weather proof housing for LGH-160RVX3-E	KS4-KWH150RVX
Lossnay weather proof housing for LGH-200RVX3-E	KS4-KWH200RVX

Ventilation Accessories / Optional Extras

DESCRIPTION	MODEL REF.
GUX-MS-E	
Standard white wired remote controller for GUX-MS-E	PAR-42MAAB
Standard black wired remote controller for GUX-MS-E	PAR-42MAAPB
Centralised controller for GUX-MS-E	AE-C400E
VL-CZPVU-E	
Replacement Coarse 55% / G3 filter for VL-250CZPVU-E	P-250F-E
Replacement Coarse 55% / G3 filter for VL-350CZPVU-E	P-350F-E
Replacement Coarse 55% / G3 filter for VL-500/520CZPVU-E	P-500F-E
$ePM_{2.5}$ 50% / M6 filter for VL-250CZPVU-E	P-250PF-E
$ePM_{2.5}$ 50% / M6 filter for VL-350CZPVU-E	P-350PF-E
$ePM_{2.5}$ 50% / M6 filter for VL-500/520CZPVU-E	P-500PF-E
NOx 90% supply air filter for VL-250CZPVU-E	P-250NF-E
NOx 90% supply air filter for VL-350CZPVU-E	P-350NF-E
NOx 90% supply air filter for VL-500/520CZPVU-E	P-500NF-E
Acoustic top box for VL-250CZPVU-E	P-250SB-E
Acoustic top box for VL-350CZPVU-E	P-350SB-E
Acoustic top box for VL-500/520CZPVU-E	P-500SB-E
Remote controller cover and 1m cable with noise filter for VL-CZPVU-E (extendable to 200m)	P-RCC-E
Wall mounted CO_2 sensor for VL-CZPVU-E	P-09CSW-E
Duct mounted plug and play humidity sensor for VL-CZPVU-E	P-09HSD-E
s-AIRME-G07 HR-P C	
Fans & Airflow	
High static pressure supply fan (500 Pa)	B503
High static pressure exhaust fan (500 Pa)	B513
Night Purge	B931
Dampers	
Fresh Air	B551
Supply Air	B561
Return Air	B571
Exhaust Air	B581
Pre/Post Heating	
Pre-heating electric coil	B531
Post-heating electrical coil*1	1333
Pre-heating water coil	B532
Post-heating water coil*1	1331
Filters	
Bag Filters F9 ePM1 85%	2521A
Activated charcoal filters	2529
Connectivity and Integration	
Modbus connection for BEMS	4181
Bacnet TCP-IP connection for BEMS	4185
Fan operation output signal	3591
Remote keyboard - wiring up to 200m	C9261063
Remote keyboard - wiring up to 500m	C9261064
Structural	
Weather canopy for outdoor installation	B541
Weather protection grille on fresh air intake	B621
Left handed configuration	2963

Note: *1 Post heating elements increase unit length size.

Controls

Control Solutions





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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.

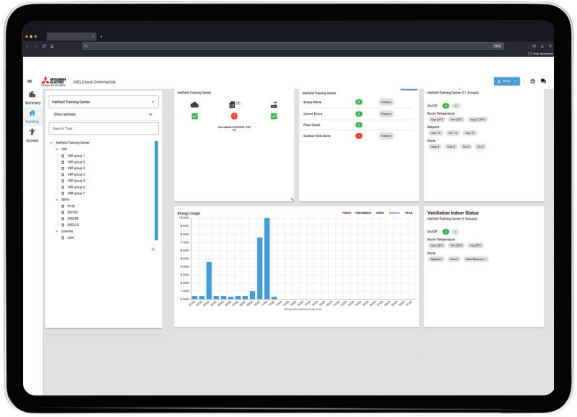
We have taken this extensive knowledge and experience and transferred it to the heart of our building services equipment.

We were also one of the first manufactures 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.

MELCloud COMMERCIAL



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	Individual room control with communication between controllers Indoor temperature control of distribution network water temperature Total interlock between heating and cooling control	Demand or presence dependent air flow control at room level Variable set point with load dependant compensation of supply temperature control Room or exhaust or supply air humidity control	Automatic daylight control Automatic occupancy detection manual on / auto off Automatic occupancy detection manual on / dimmed Automatic occupancy detection auto on / auto off Automatic occupancy detection auto on / dimmed	Combined light / blind / HVAC control
B	Individual room control with communication between controllers Indoor temperature control of distribution network water temperature Partial interlock between heating and cooling control (dependent on HVAC system)	Time dependent air flow control at room level Variable set point with outdoor temperature compensation of supply temperature control Room or exhaust or supply air humidity control	Manual daylight control Automatic occupancy detection manual on / auto off Automatic occupancy detection manual on / dimmed Automatic occupancy detection auto on / auto off Automatic occupancy detection auto on / dimmed	Motorised operation with automatic blind control
C	Individual room control with communication between controllers Indoor temperature control of distribution network water temperature Partial interlock between heating and cooling control (dependent on HVAC system)	Time dependent air flow control at room level Constant set point of supply temperature control Supply air humidity limitation	Manual daylight control Manual on / off switch + additional sweeping extinction signal Manual on / off switch	Motorised operation with manual blind control
D	No automatic control No control of distribution network water temperature No interlock between heating and cooling control	No air flow control at room level No supply temperature control No air humidity control	Manual daylight control Manual on/off switch + additional sweeping extinction signal Manual on/off switch	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

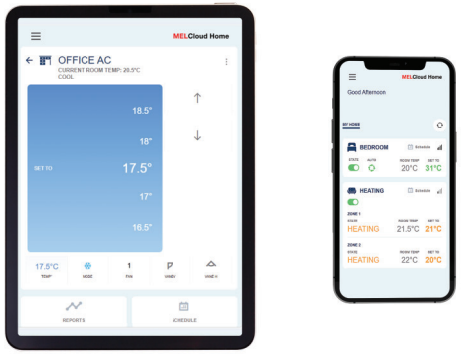
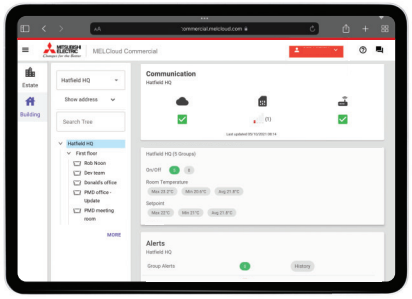
Control Solutions

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 solutions.

Features	MELCloud Home	MELCloud Commercial
		
Connect to	Wi-Fi	Ethernet or Cellular
Compatibility	Air Conditioning 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	✓	✓

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-42MAAB AE-C400E or AT-50B PAC-YG66DCA or PAC-YG60MCA MELCloud Commercial MELCOBEMS SIP+	Wholesaler PACAIR uses a Mitsubishi Electric 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-42MAAB AE-C400E or AT-50B MELCloud Commercial MELCOBEMS SIP+	Mitsubishi Electric's Hatfield headquarters has been updated to new AE-C400E / EW-C50E 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-C400E 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-C400E 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 Home	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 Home Wi-Fi system also allows the heat pump to be monitored and controlled remotely
	LARGE	Ecodan	MELCloud Home AE-C400E	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	SMALL SYSTEM SIZE LARGE					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-C400E 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-C400E / EW-C50E 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-42MAAB	PAR-U02MEDA	AT-50B	AE-C400E / EW-C50E	AE-C400E	Available in Heat, Cool and Auto modes
Weekly timer	PAR-42MAAB PAR-U02MEDA	AT-50B	AE-C400E / EW-C50E	AE-C400E	-	Setpoint, On/Off can be reset
Night set back	KTR-53A	PAR-42MAAB PAR-U02MEDA	AE-C400E / EW-C50E / AT-50B	AE-C400E	-	KTR-53A requires thermostat, time switch, 12/24v AC/DC power supply
Energy monitoring	AE-C400E / EW-C50E Total Energy Measurement	AE-C400E / EW-C50E PAC-YG60MCA Total Energy Management	AE-C400E and EW-C50E Energy Apportioning	AE-C400E / EW-C50E PAC-YG60MCA Energy Apportioning	-	Different options for each choice. Meters required
Load shedding	EW-C50E and PAC-YG60MCA	AE-C400E and PAC-YG60MCA	-	-	-	Energy meters required
Trend logging	EW-C50E and PAC-YG60MCA	AE-C400E	-	-	-	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	SMALL SYSTEM SIZE LARGE			NOTES
	OPTION 1	OPTION 2	OPTION 3	
Night mode	PAC-SA89TA	EW-C50E	AE-C400E	PAC-SA89TA requires a third party timer
Ambient tracking	AE-C400E and PAC-YG63MCA	MELCOBEMS MINI (A1M+)	AE-C400E	Option 1 is only available in cooling mode
Key card interlock for hotel	AE-C400E and PAC-SA89TA	AE-C400E / EW-C50E, MELCOTEL2™ and PAC-SA89TA	-	Volt free contact for key card normally open
Window sensor interlock for hotel	AE-C400E and PAC-SA89TA	AE-C400E / EW-C50E, MELCOTEL2™ and PAC-SA89TA	-	Volt free contact for window sensor normally closed
2 setpoints (1 for cool and 1 for heat)	-	MELCOMMS MINI	AE-C400E	For instance, 19°C heat and 23°C cool. Fan only in between
Duty / Standby	PAR-42MAAB	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-C400E	-	-	-
Mini BEMS	MELCOBEMS MINI (A1M+)	AE-C400E	-	-
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.

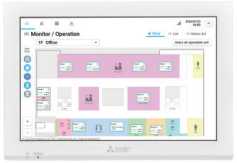
Key Features & Benefits

AT-50B



- 5'' basic touch screen
- Centralised controller
- Monitor and control up to 50 indoor units
- Monitor and control general equipment

AE-C400E



- 12.1“ capacitive touch screen, including high sensitivity, multi-touch support, better durability and improved clarity
- Centralised controller
- Monitor and control up to 50 indoor units (or up to 400 with EW-C50E)
- Designed for cloud connectivity - MELCloud ready
- USB C port
- Browser based
- 4G Ready - SIM or Antenna
- 3rd party energy meter inputs
- BMS connection ready - fixed IP address
- WEB-USER Pin code pre-installed

EW-C50E



- Extends capability of AE-C400E
- Web based controller
- Monitor and control up to 50 indoor units
- Monitor and control general equipment
- Energy monitoring, load shedding
- Onboard web browser
- Optional direct BACnet connection
- USB C port

MITSU10001-ROUTER-CPT



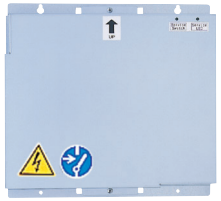
- QuSpot antenna cellular solution, including router
- Integrated solution with multi band antennas in one enclosure
- Perfect for sites where LAN connection is not available
- 4G LTE
- IP 67
- Mounting brackets included
- Versatile use (mobile and fixed installations)

PAC-SC51KUA



- M-NET power supply

PAC-SF46EPA



- M-NET transmission booster

Centralised Controllers

Technical Specification

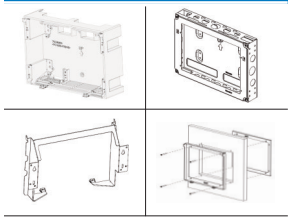
CENTRALISED CONTROLLERS		AT-50B	AE-C400E	KS10-RFFI
				
Description		5" Touch Screen Controller	12.1 Capacitive Touch Screen Controller	AE-C400E Interface
Connect to		M-NET Network	M-NET Network	AE-C400E and EW-C50E
Max Number of Units		50	50 and 4 Pulse Meters	-
Compatibility		M Series, Mr Slim, City Multi and Lossnay	M Series, Mr Slim, City Multi, Lossnay, e-Series, MEHITS Chillers*1 and Ecodan QAHV/CAHV/CRHV	-
Power Supply		Via PAC-SC51KUA	220-240v, 50Hz	220-240v, 50Hz
Dimensions (mm) (WxDxH)		180 x 30 x 120	306 x 71.8 x 211	130 x 30 x 80
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 MEHITS adaptor required.

PIN CODES:

- CENTRAL CONTROL ENERGY APPORTION CHARGE PIN
- CENTRAL CONTROL BACNET PIN

AE-C400E ACCESSORIES



PAC-YK92TB-J

Wall Mounting Attachment

Used to attach the AE-C400E on to the surface of a wall. Ideal accessory where a recess in the wall isn't available.

Dimensions (mm): 304 x 94 x 209

PAC-YK94UTB-J

Electrical Box - In-wall Enclosure

Use to help protect and contain the AE-C400E within the wall.

Dimensions (mm): 346 x 60 x 230

PAC-YK96TK-J

Mounting Kit for Control Panel

For use when the AE-C400E is required to be installed inside a control panel enclosure with DIN Rail.

Dimensions (mm): 299 x 73 x 203

PAC-YK91RF-J

Replacement Wall Mounting Attachment

Replacement kit for mounting an AE-C400E to the wall.

Dimensions (mm): 293 x 20 x 203

Centralised Controllers

Technical Specification

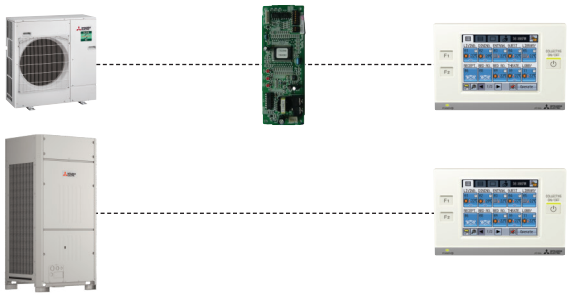
CENTRALISED CONTROLLERS		EW-C50E	MITSU10001-ROUTER-CPT	PAC-SC51KUA	PAC-SF46EPA
					
Description		Web Interface and AE-C400E expansion controller	QuSpot antenna cellular solution, including router	M-NET Power Supply	M-NET Transmission Booster
Connect to		M-NET Network	-	M-NET Network	M-NET Network
Max Number of Units		50 and 4 Pulse Meters	-	50	-
Compatibility		M Series, Mr Slim, City Multi, Lossnay, e-Series, MEHITS Chillers*1 and Ecodan QAHV/CAHV/CRHV	AE-C400E, EW-C50E, MCC-50E	AT-50B, EW-C50E and AE-C400E	M Series, Mr Slim and City Multi
Power Supply		220-240v, 50Hz	-	220-240v, 50Hz	220-240v, 50Hz
Dimensions (mm) (WxDxH)		185 x 60.3 x 278	160 x 160 x 243 160 x 189 x 347 (with brackets/accessories)	271 x 72 x 169	360 x 59 x 340
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		✓	-	-	-
Night Set Back		✓	-	-	-
Web Pages		✓	-	-	-
Optimised Start		✓	-	-	-
Automatic Setpoint Adjustment		✓	-	-	-
Load Shedding		✓	-	-	-
Occupied / Unoccupied Settings Reset		x	-	-	-
Remote Monitoring with M2M		✓	-	-	-
Simple Energy Monitoring		✓	-	-	-
Advanced Energy Monitoring		✓	-	-	-

Notes: *1 MEHITS adaptor required.

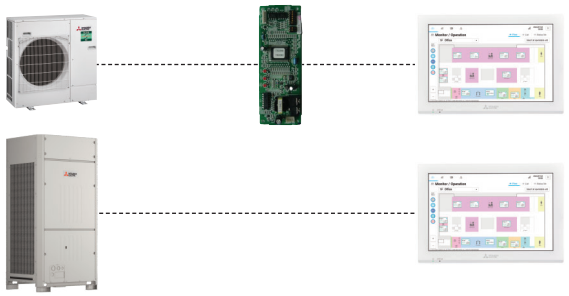
PIN CODES:

- CENTRAL CONTROL ENERGY APPORTION CHARGE PIN
- CENTRAL CONTROL BACNET PIN

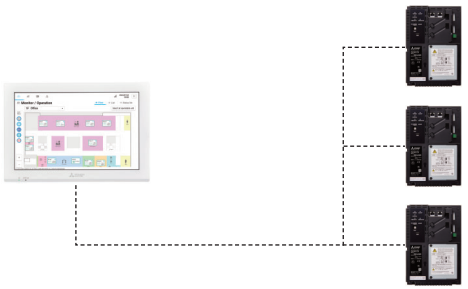
System Diagram AT-50B



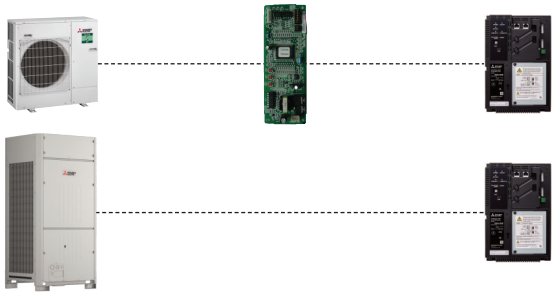
System Diagram AE-C400E



System Diagram EW-C50E



System Diagram EW-C50E



System Diagram MITSU10001-Router-CPT



System Diagram PAC-SC51KUA

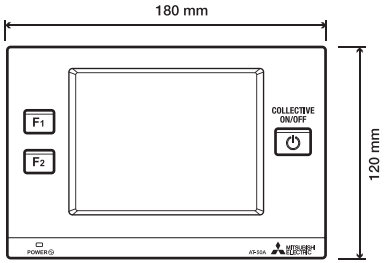


System Diagram PAC-SF46EPA

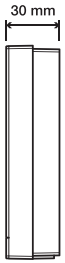


Product Dimensions AT-50B

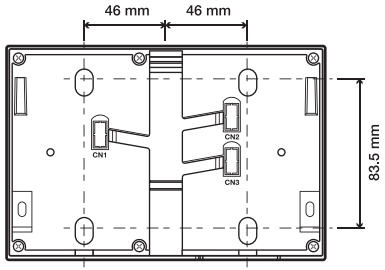
Front View



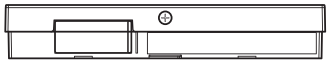
Side View



Back View

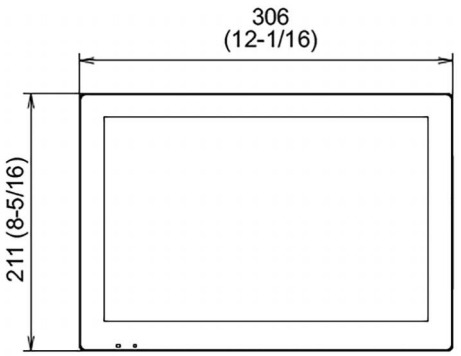


Top View

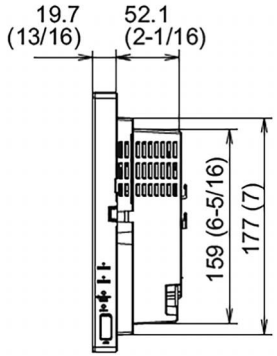


Product Dimensions AE-C400E

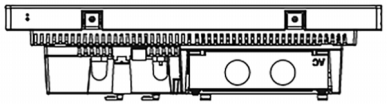
Front View



Side View

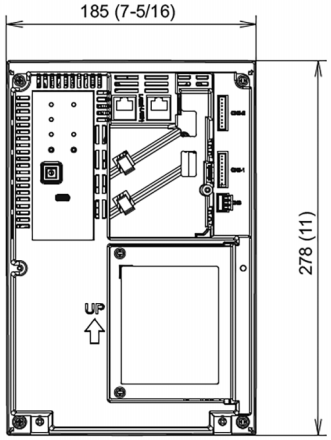


Top View

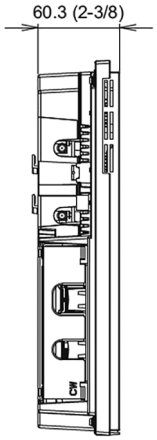


Product Dimensions EW-C50E

Front View

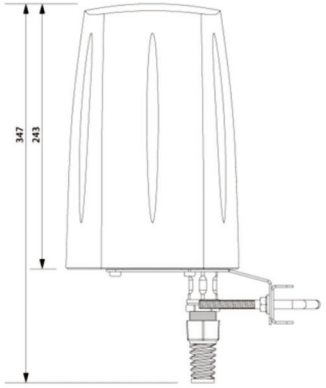


Side View

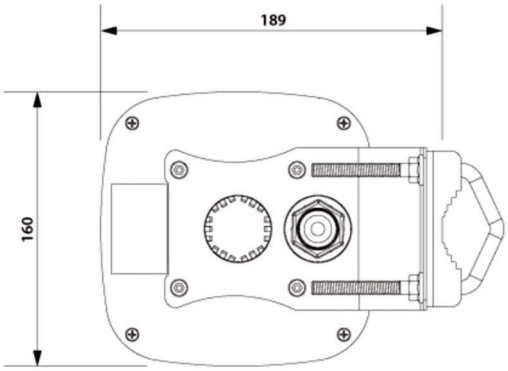


Product Dimensions MITSU10001-Router-CPT

Side View

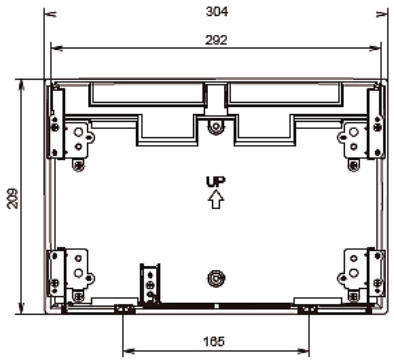


Lower View

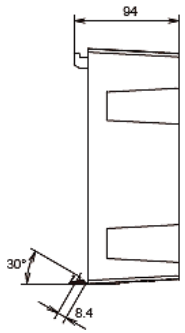


Product Dimensions PAC-YK92TB-J

Front View



Side View

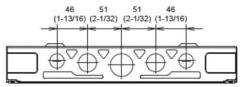


Top View

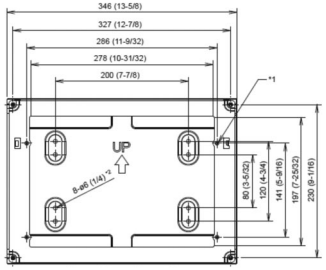


Product Dimensions PAC-YK94UTB-J

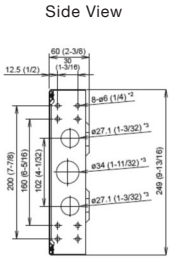
Top View



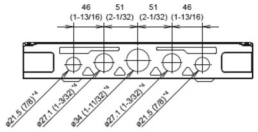
Front View



Side View

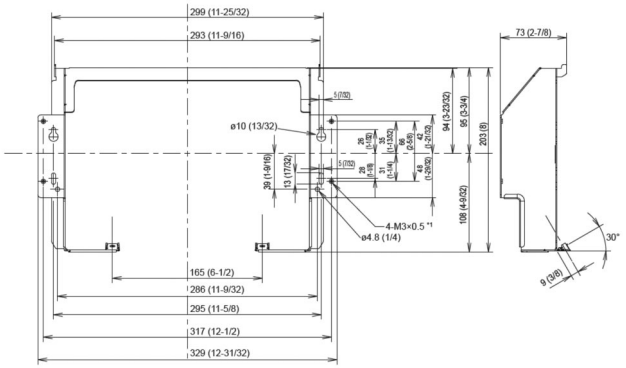


Lower View



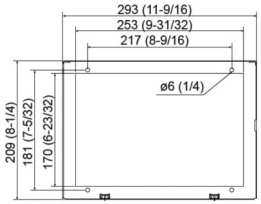
Product Dimensions PAC-YK96TK-J

Front View



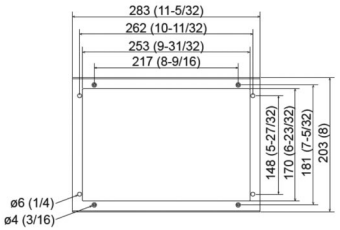
Product Dimensions PAC-YK91RF-J

Front View



Front plate

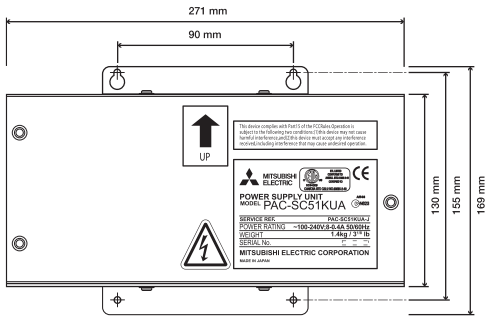
Back View



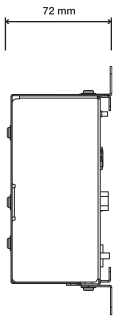
Rear plate

Product Dimensions PAC-SC51KUA

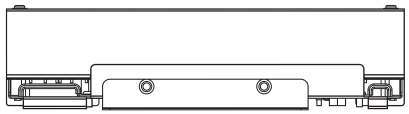
Front View



Side View

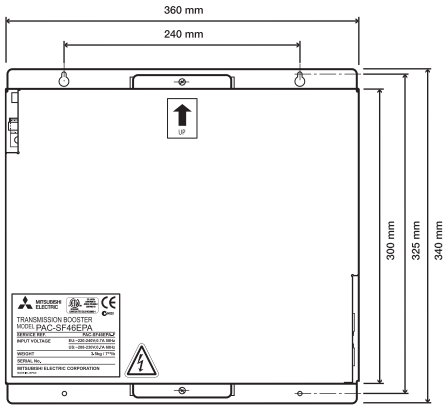


Top View

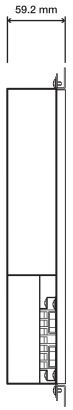


Product Dimensions PAC-SF46EPA

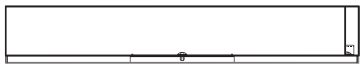
Front View



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

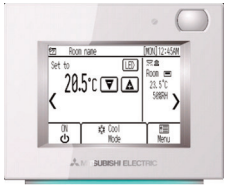
PAR-CT01MAA-SB / PAR-CT01MAA-PB





- 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-42MAAB / PAR-42MAAPB




- Audible and visual leak alarm
- 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-FL32MA / PAR-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-SL103A-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

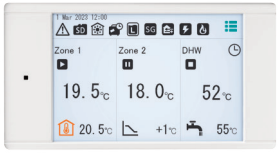
PAR-WT60R-E / PAR-WR61R-E





- Ecodan wireless controller
- New sleek flat panel design
- Backlight
- Ecodan receiver

PAC-IF082B-E



- Ecodan controller
- Touch Screen

Remote Controllers

Technical Specification

REMOTE CONTROLLERS	PAR-CT01MAA-SB	PAR-CT01MAA-PB	PAR-U02MEDA	PAR-42MAAB	PAR-42MAAPB	PAR-FL32MA	PAR-FA32MA	PZ-62DR-EB
								
Description	Simplified Touch Screen Wired Remote Controller	Simplified Touch Screen Wired Remote Controller (Premium Finish)	Touch Screen Remote Controller	Standard White Wired Remote Controller	Standard Black Wired Remote Controller	Infrared Remote Controller	Infrared Receiver	Lossnay Wired Remote Controller
Connect to	Indoor	Indoor	M-NET Network	Indoor	Indoor	-	Indoor	Indoor
Max Number of Units	16	16	16	16	16	-	16	15
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 YNW (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 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	Lossnay LGH-RVX3(T)-E LGH-RVS-E
Dimensions (mm) (WxDxH)	65 x 14.1 x 120	65 x 14.1 x 120	140 x 25 x 120	120 x 14.5 x 120	120 x 14.5 x 120	57 x 18 x 157	70 x 18 x 120	120 x 19 x 120
Control On/Off	✓	✓	✓	✓	✓	✓	-	✓
Mode	✓	✓	✓	✓	✓	✓	-	✓
Setpoint	✓	✓	✓ (0.5°C)	✓ (0.5°C)	✓ (0.5°C)	✓	-	-
Fan Speed	✓	✓	✓	✓	✓	✓	-	✓
Air Direction	✓	✓	✓	✓	✓	✓	-	-
Permit/Prohibit	✓	✓	✓	✓	✓	x	-	✓
Filter Sign	✓	✓	✓	✓	✓	x	-	✓
Monitor On/Off	✓	✓	✓	✓	✓	✓	-	✓
Mode	✓	✓	✓	✓	✓	✓	-	✓
Setpoint	✓	✓	✓ (0.5°C)	✓ (0.5°C)	✓ (0.5°C)	✓	-	x
Fan Speed	✓	✓	✓	✓	✓	✓	-	✓
Air Direction	✓	✓	✓	✓	✓	✓	-	-
Permit/Prohibit	✓	✓	✓	✓	✓	✓	-	✓
Filter Sign	✓	✓	✓	✓	✓	x	-	✓
Fault Codes	✓	✓	✓	✓	✓	x	LED	✓
Room Temperature	✓	✓	✓ (0.5°C)	✓ (0.5°C)	✓	x	-	-
Leak Detection Buzzer	x	x	x	✓	✓	x	x	x
Backlight	✓	✓	✓	✓	✓	x	-	✓
Setpoint Limitation	✓	✓	✓	✓	✓	x	-	-
Independent Vane Control	x	x	x	✓	✓	x	-	-
Contact Number under Fault Condition	x	x	x	✓	✓	x	-	x
Scheduling	✓	✓	Weekly	Weekly	Weekly	x	-	Weekly
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	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		PAR-SL103A-E	PAR-W31MAA	PAR-W21MAA	PAR-WT60R-E	PAR-WR61R-E	PAC-IF082B-E
							
Description		Wireless Remote Controller	Standard Wired Remote Controller	Standard Wired Remote Controller	Wireless Remote Controller Transmitter	Wireless Remote Controller Receiver	Flow Temperature Controller FTC7
Connect to		-	e-Series and Ecodan CAHV/QAHV	City Multi PWFY	Ecodan PUZ	Ecodan PUZ	Ecodan PUZ
Max Number of Units		-	6 (depends on unit connected)	16	8	1	1
Compatibility		Mr Slim PLA-ZM/M/SM PKA-M	e-Series and Ecodan CAHV/QAHV	PWFY and Ecodan CRHV	Ecodan PUZ	Ecodan PUZ	Ecodan PUZ
Dimensions (mm) (WxDxH)		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 14.1 x 65
Control	On/Off	✓	✓	✓	x	-	✓
	Mode	✓	✓	✓	✓	-	✓
	Setpoint	✓	✓	✓	✓	-	✓
	Fan Speed	✓	x	x	x	-	x
	Air Direction	✓	x	x	x	-	x
	Permit/Prohibit	x	x	-	x	-	x
	Filter Sign	x	x	x	x	-	x
Monitor	On/Off	✓	✓	✓	✓	-	✓
	Mode	✓	✓	✓	✓	-	✓
	Setpoint	✓	✓	✓	✓	-	✓
	Fan Speed	✓	x	x	x	-	x
	Air Direction	✓	x	x	x	-	x
	Permit/Prohibit	✓	✓	x	x	-	x
	Filter Sign	x	x	x	x	-	x
	Fault Codes	x	✓	✓	x	-	✓
	Room Temperature	x	x	x	✓	-	✓
Backlight		✓	✓	x	✓	-	x
Setpoint Limitation		x	x	✓	✓	-	x
Independent Vane Control		✓	x	x	x	-	x
Contact Number under Fault Condition		x	✓	✓	x	-	x
Scheduling		Weekly	Weekly	Weekly	Weekly	-	Weekly
Night Set Back		x	x	x	✓	-	✓
Button Lock		x	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



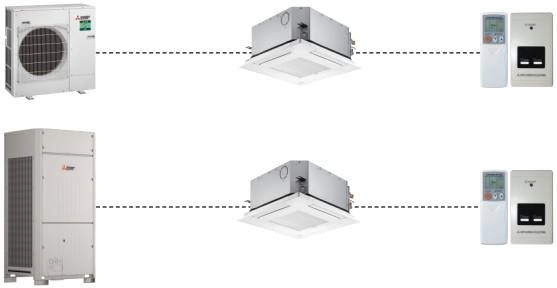
System Diagram PAR-U02MEDA



System Diagram PAR-42MAAB / PAR-42MAAPB



System Diagram PAR-FL32MA / PAR-FA32MA



System Diagram PZ-62DR-EB



System Diagram PAR-SL103A-E



System Diagram PAR-W31MAA



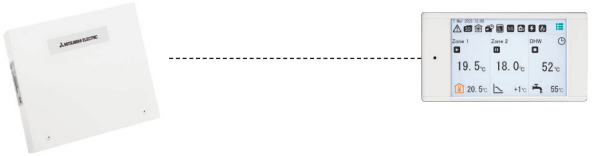
System Diagram PAR-W21MAA



System Diagram PAR-WT60R-E / PAR-WR61R-E



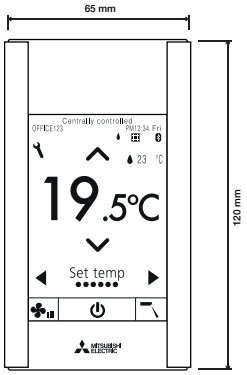
System Diagram PAC-IF082B-E



Product Dimensions PAR-CT01MAA-SB / PAR-CT01MAA-PB

Front View

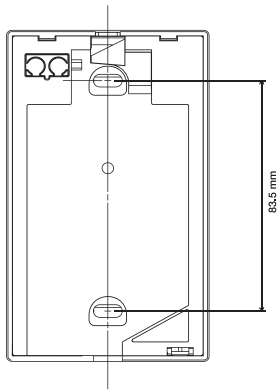




Side View

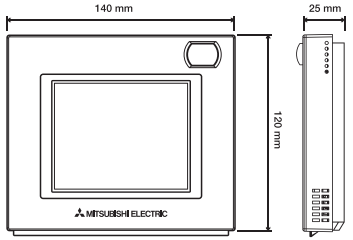


Back View



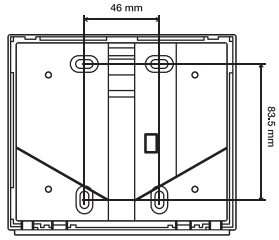
Product Dimensions PAR-U02MEDA

Front View



Side View

Back View

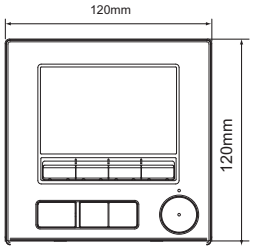


Top View



Product Dimensions PAR-42MAAB / PAR-42MAAPB

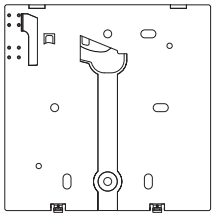
Front View



Side View

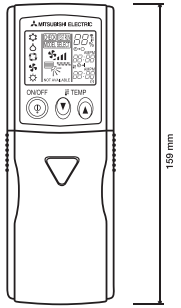


Back View

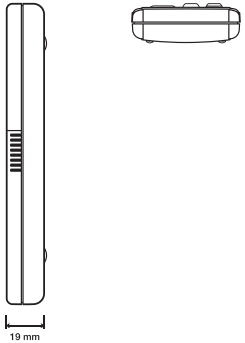


Product Dimensions PAR-FL32MA

Front View



Side View

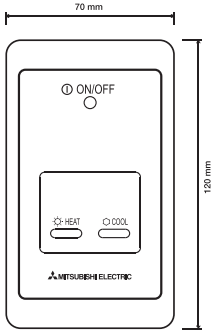


Back View

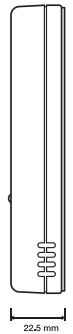


Product Dimensions PAR-FA32MA

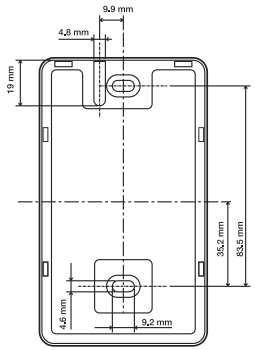
Front View



Side View

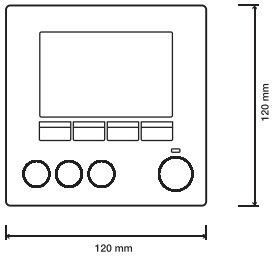


Back View



Product Dimensions PZ-62DR-EB / PAR-W31MAA

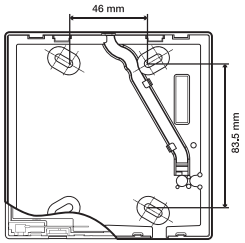
Front View



Side View

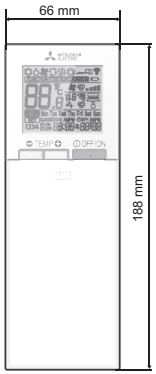


Back View



Product Dimensions PAR-SL103A-E

Front View

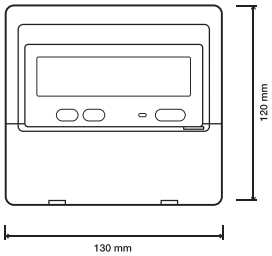


Side View



Product Dimensions PAR-W21MAA

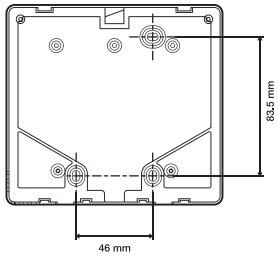
Front View



Side View

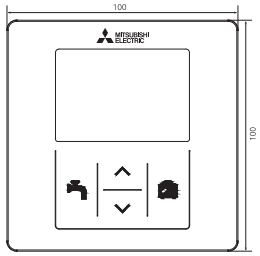


Back View

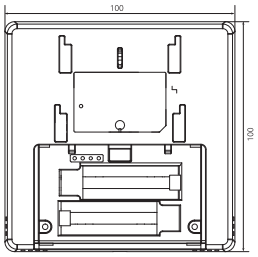


Product Dimensions PAR-WT60R-E

Front View



Back View

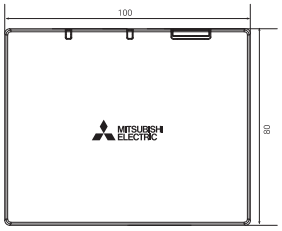


Side View

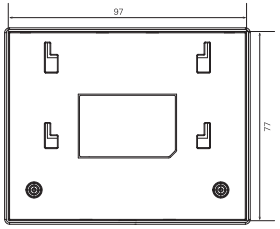


Product Dimensions PAR-WR61R-E

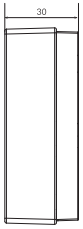
Front View



Back View

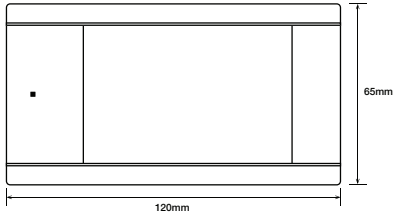


Side View

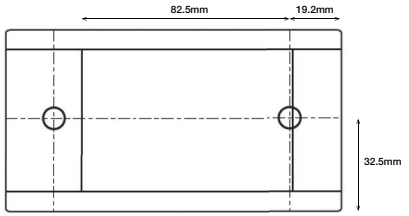


Product Dimensions PAC-IF082B-E

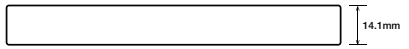
Front View



Back View



Side View



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



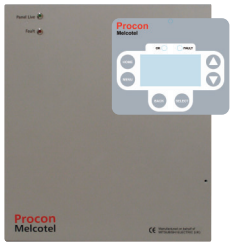
- IoT Interface - MELCloud Home and MELCloud Commercial*
- LAN or Cellular options. Cellular and MELCloud Home option includes data plan** via eSIM
- Remotely control indoor and outdoor units
- Remote service and maintenance*
- Update interface software OTA (over the air)
- Wall mountable - bracket supplied

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

ENERGY METERS



- Backlit LCD display
- Single-phase energy analyser
- DIN-rail mount

* MELCloud Commercial compatibility expected end 2026. ** 10 yr up to 100 MB data plan (renewable).

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-C400E Hotel Interface and display
Connect to		Web based (MCC-50E Required)	M-NET Network	CN105 (1.5m cable provided)	MELCOBEMS MINI (A1M+)	AE-C400E and EW-C50E
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, Ecodan, 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	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*2 platforms	✓ 1 Digital (Fault)	x
Network		-	IoT (MELCloud Commercial) / LAN / 4G	LAN or Cellular (LTE-M, 2G)	-	-
Control	On/Off	✓	DI	DI	✓	✓
	Mode	✓	DI	DI	✓	✓
	Setpoint	✓	DI	DI	✓	✓
	Fan Speed	✓	DI	DI	x	x
	Air Direction	-	-	-	x	x
	Permit/Prohibit	✓	DI	DI	x	x
	Schedule	-	DI	DI	-	-
	Filter Sign	✓	DI	DI	x	x
	Frost Protection	-	-	DI	-	-
	Holiday Mode	-	-	DI	-	-
Monitor	On/Off	✓	DO	DO	✓	✓
	Mode	✓	DO	DO	✓	✓
	Setpoint	✓	DO	DO	✓	✓
	Fan Speed	✓	DO	DO	x	x
	Air Direction	-	-	DO	x	x
	Permit/Prohibit	✓	DO	DO	x	x
	Cloud Communication	-	DO	DO	-	-
	Filter Sign	✓	DO	DO	x	x
	Fault Code Alerts	✓	DO	DO	✓	x
	Room Temperature	✓	DO	DO	✓	✓
	Daily kWh Energy	-	DO	-	-	-
	Monthly kWh Energy	-	DO	-	-	-
	Comfort Data	-	DO	-	-	-
	Building Status	✓	DO	DO	x	x
Flexible Schedule Options		✓	Via MELCLoud Commercial Platform	Via MELCloud Home / Commercial*2 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.

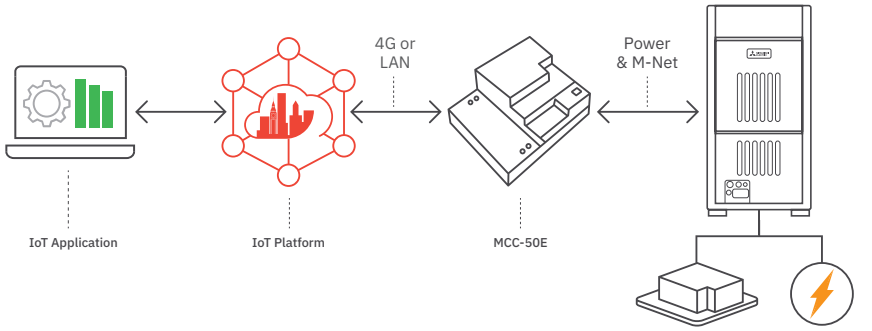
*2 MELCloud Commercial compatibility expected end 2026.

Solution Interfaces

Technical Specification

ENERGY METERS	EM511 SINGLE-PHASE PULSE ENERGY METER EM511DINAV81XO1X	EM112 SINGLE-PHASE MODBUS ENERGY METER EM112DINAV01XS1X	EM540 THREE-PHASE PULSE ENERGY METER EM540DINAV23XO1X	EM340 THREE-PHASE MODBUS ENERGY METER EM340DINAV23XS1X
				
Description	Single-phase LCD Energy Meter 230 V L-N, 5 (100) A, Pulse output	Single-phase LCD Energy Meter 230 V L-N, 5 (100) A, RS485 Modbus RTU	Three-phase LCD Energy Meter, 120 to 230 V L-N, 208 to 400 V L-L, 5 (65) A, Pulse output	Three-phase LCD Energy Meter, 120 to 230 V L-N, 208 to 400 V L-L, 5 (65) A, RS485 Modbus RTUt
Compatibility	■ PAC-YG60MCA ■ AE-C400E ■ EW-C50E ■ MCC-50E	■ AE-C400E ■ EW-C50E ■ MCC-50E	■ PAC-YG60MCA ■ AE-C400E ■ EW-C50E ■ MCC-50E	■ AE-C400E ■ EW-C50E ■ MCC-50E
Features	■ Backlit LCD Display ■ Single-phase energy analyser ■ DIN-rail mount ■ Connect up to 4 directly to PAC-YG60MCA	■ Backlit LCD Display ■ Single-phase energy analyser ■ DIN-rail mount ■ Connect up to 4 directly to AE-C400E, EW-C50E or MCC-50E	■ Backlit LCD Display ■ Three-phase energy analyser ■ DIN-rail mount ■ Connect up to 4 directly to PAC-YG60MCA	■ Backlit LCD Display ■ Three-phase energy analyser ■ DIN-rail mount ■ Connect up to 4 directly to AE-C400E, EW-C50E or MCC-50E
Dimensions (mm) (WxDxH)	18 x 58 x 90	35 x 63 x 90	54 x 63 x 90	54 x 63 x 91

System Diagram MELCLOUD COMMERCIAL



All equipment is on M-Net (network), when no central controller is present M-Net adapter is required.

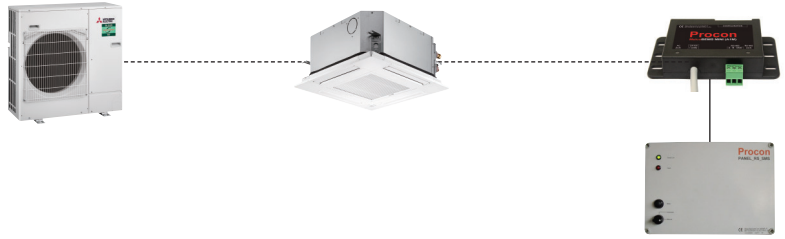
System Diagram MCC-50E



System Diagram MELCLOUD-CL-HA1-A1



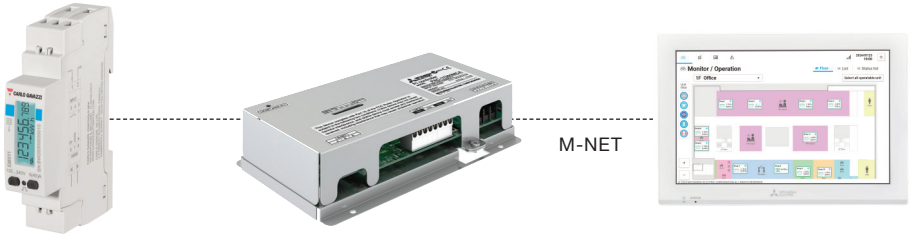
System Diagram MELCOMMS MINI



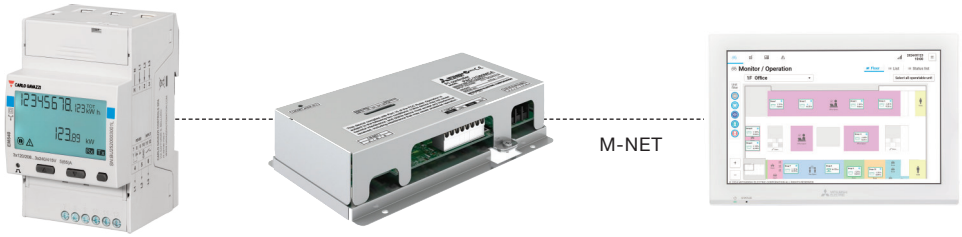
System Diagram MELCOTEL2



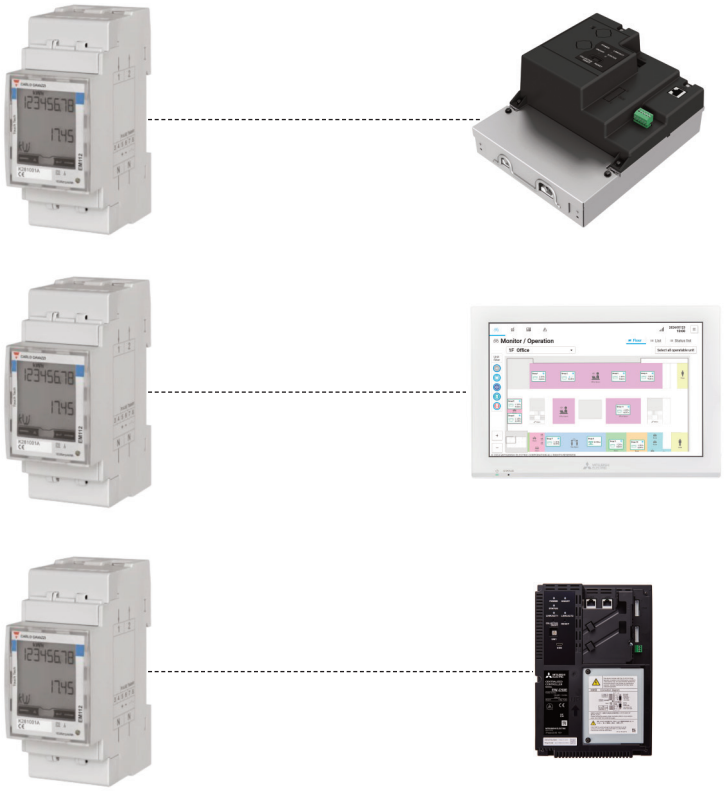
System Diagram EM511 Single-phase PULSE Energy Meter EM511DINAV81XO1X



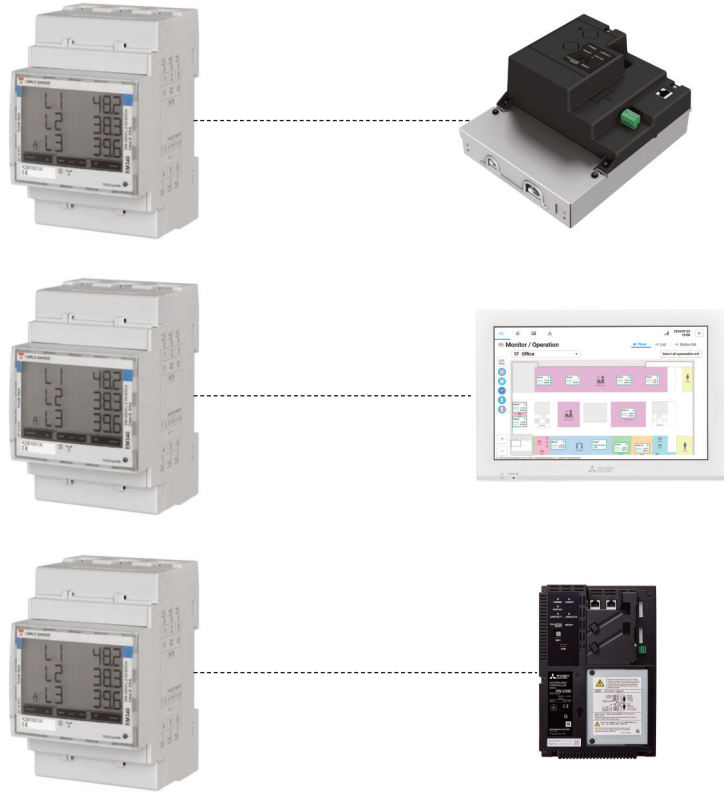
System Diagram EM540 Three-phase PULSE Energy Meter EM540DINAV23XO1X



System Diagram EM112 Single-phase MODBUS Energy Meter EM112DINAV01XS1X

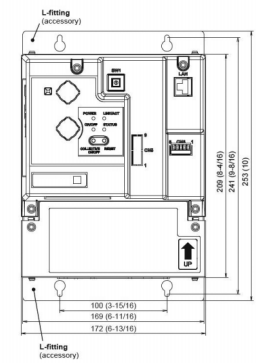


System Diagram EM340 Three-phase MODBUS Energy Meter EM340DINAV23XS1X

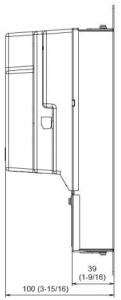


Product Dimensions MCC-50E

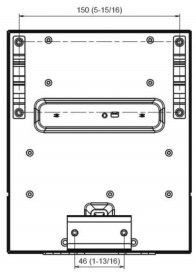
Front View



Side View

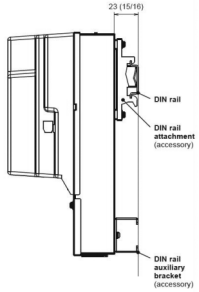


Rear View



*When using DIN rail

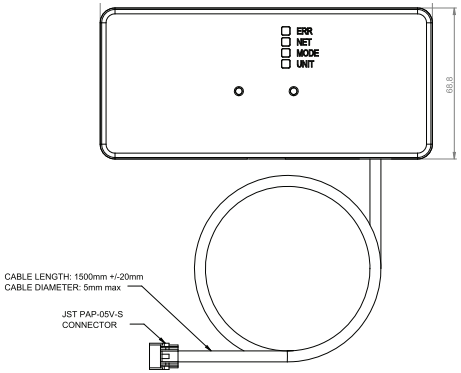
Side View



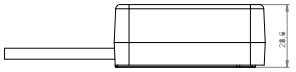
*When using L-fittings

Product Dimensions MELCLOUD-CL-HA1-A1

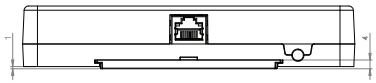
Front View



Side View

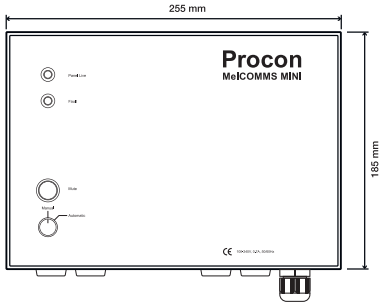


Lower View

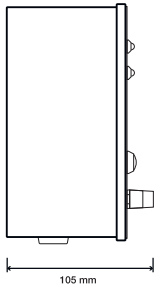


Product Dimensions MELCOMMS MINI

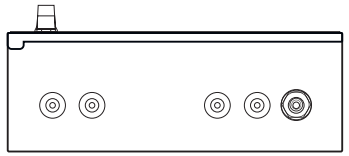
Front View



Side View

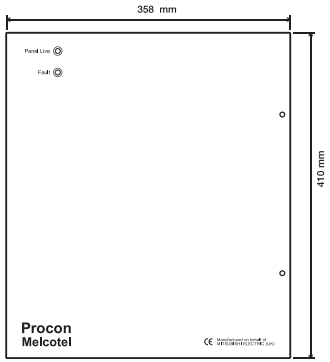


Top View

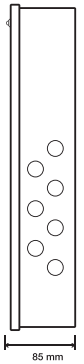


Product Dimensions MELCOTEL2

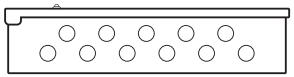
Front View



Side View

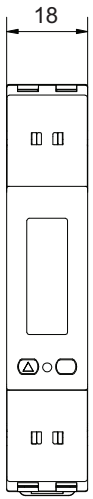


Top View

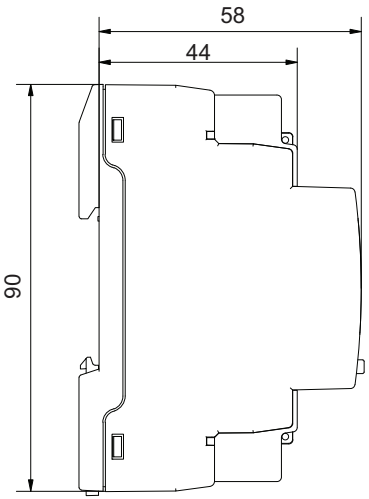


Product Dimensions EM511 Single-phase PULSE Energy Meter EM511DINAV81XO1X

Front View

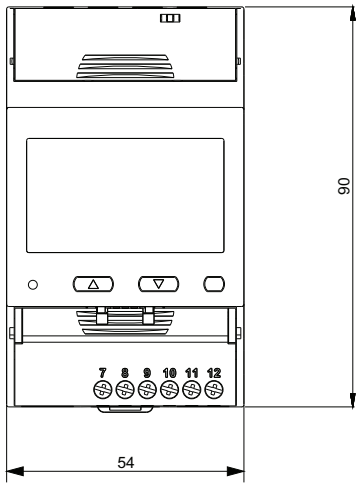


Side View

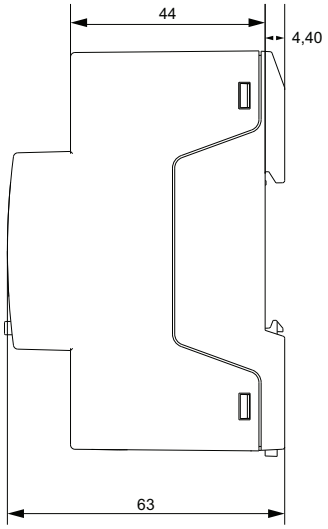


Product Dimensions EM540 Three-phase PULSE Energy Meter EM540DINAV23XO1X

Front View

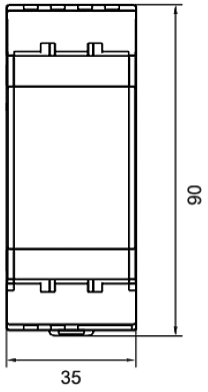


Side View

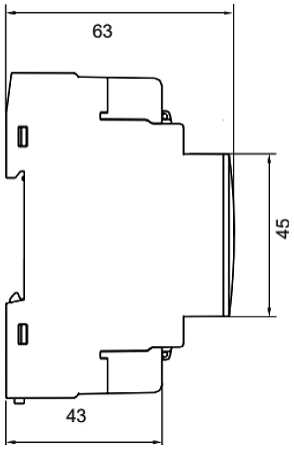


Product Dimensions EM112 Single-phase MODBUS Energy Meter EM112DINAV01XS1X

Front View

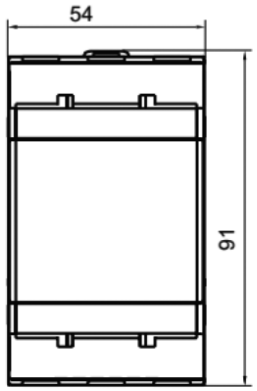


Side View

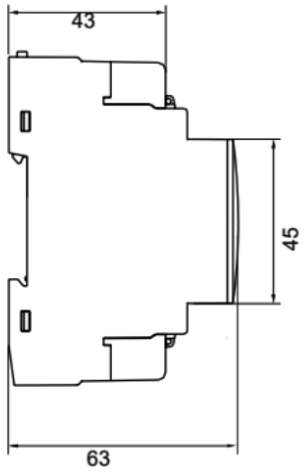


Product Dimensions EM340 Three-phase MODBUS Energy Meter EM340DINAV23XS1X

Front View



Side 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



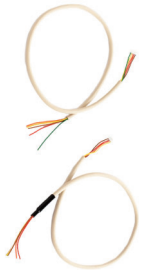
- Also known as 3 wire adaptor
- Remote on/off
- Fire alarm input
- Night mode
- Demand control

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-SK15MA-E



- Adaptor to connect Mr Slim PUZ-ZM35/50 units to M-NET

PAC-SJ95MA-E



- Adaptor to connect Mr Slim units to M-NET

PAC-SL16MA-E



- Adaptor to connect Mr Slim PUZ-ZM100-140 / PUZ-M200/250 units to M-NET

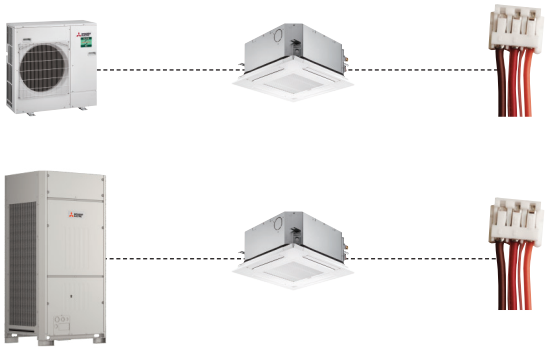
Simple Interfaces

Technical Specification

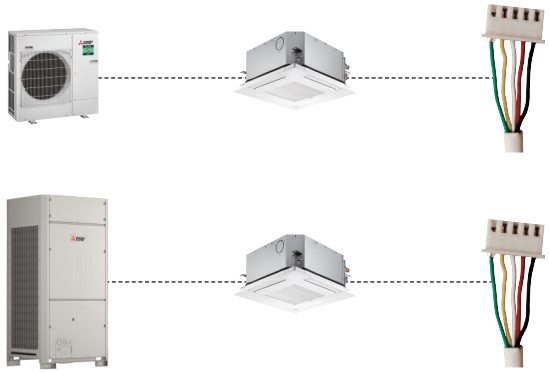
SIMPLE INTERFACES	PAC-SA89TA	PAC-SA89TA	PAC-SA88HA	PAC-SA88HA	PAC-SA88HA	PAC-YT51HAA	PAC-YG10HA	PAC-SK15MA-E	PAC-SJ95MA-E	PAC-SL16MA-E
										
Description	On/Off Adaptor (3 wire adaptor)	Night Mode and Demand Control (3 wire adaptor)	Run and Fault Adaptor (5 wire adaptor)	Heat and Cool Adaptor (5 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	M-NET Converter
Connect to	Indoor	Outdoor	Indoor	Indoor	Outdoor	AT-50B	AE-C400E and EW-C50E	Outdoor	Outdoor	Outdoor
Max Number of Units	1	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-C400E and EW-C50E	Mr Slim PUZ-ZM35/50 Outdoor	Mr Slim Outdoor*1	Mr Slim PUZ-ZM100-140 / PUZ-M200/250 Outdoor
Dimensions (mm) (WxDxH)	-	-	-	-	-	-	-	120 x 44 x 321	140 x 15 x 50	140 x 15 x 50
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-ZM60/71, PUZ-ZM200/250, PUZ-M100-140, PUZ-SM100-140.
✓= Yes, x = No, - = Not applicable.

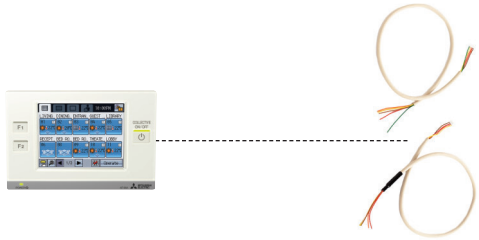
System Diagram PAC-SA89TA



System Diagram PAC-SA88HA



System Diagram PAC-YT51HAA



System Diagram PAC-YG10HA



System Diagram PAC-SK15MA-E



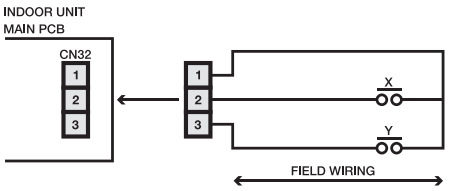
System Diagram PAC-SJ95MA-E



System Diagram PAC-SL16MA-E



Wiring Diagram PAC-SA89TA



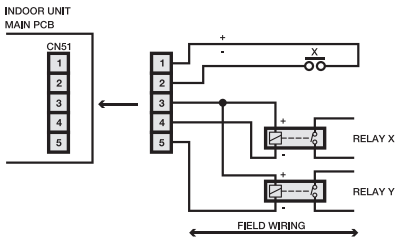
NOTE

- ON / OFF BUTTON ON THE REMOTE CONTROLLER NOT AVAILABLE
- ADAPTER WIRE COLOURS MAY VARY
- RELAYS NOT SUPPLIED

OPERATION

- X AND Y CLOSED TO START UNIT

Wiring Diagram PAC-SA88HA



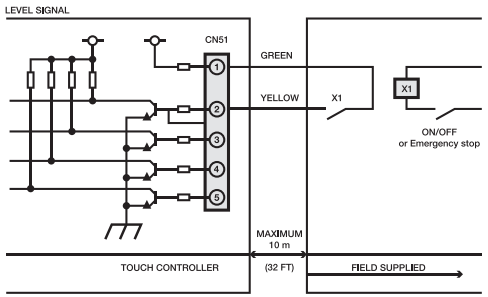
NOTE

- RELAYS NOT SUPPLIED
- X REQUIRES A PULSE SIGNAL TO START / STOP UNIT

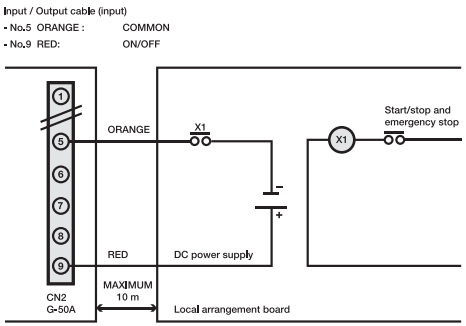
OPERATION

- RELAY X SUPPLIED WITH 12V DC WHEN UNIT IS ON
- RELAY Y SUPPLIED WITH 12V DC WHEN UNIT IN FAULT

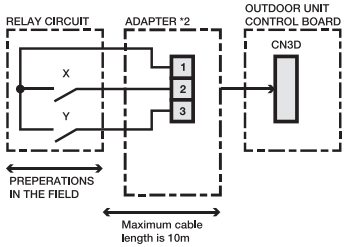
Wiring Diagram PAC-YT51HAA



Wiring Diagram PAC-YG10HA



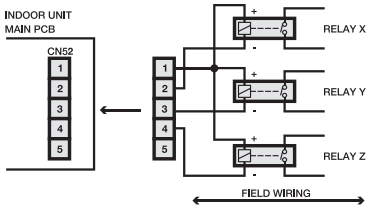
Wiring Diagram PAC-SA89TA



NOTE

X : Low noise mode or demand
Y : Demand
X, Y : Relay Contact rating voltage >= 15VDC
Contact rating current >=0.1A
Minimum applicable load =< 1mA at DC

Wiring Diagram PAC-SA88HA



NOTE

- RELAYS NOT SUPPLIED

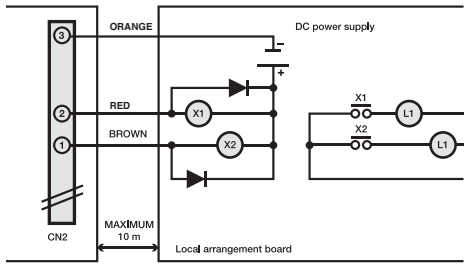
OPERATION

- RELAY X SUPPLIED WITH 12V DC WHEN FAN IS RUNNING
- RELAY Y SUPPLIED WITH 12V DC WHEN UNIT IS IN COOLING MODE AND THE REMOTE CONTROLLER IS ON OR OFF
- RELAY Z SUPPLIED WITH 12V DC WHEN UNIT IS IN HEATING MODE AND THE REMOTE CONTROLLER IS ON OR OFF

Wiring Diagram PAC-YT51HAA

Input / Output cable (output)

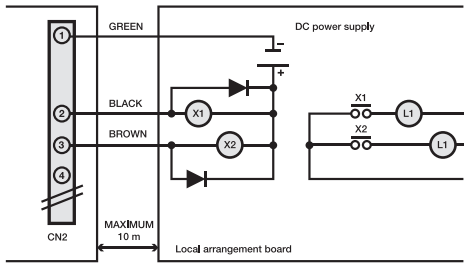
- No. 1 ORANGE: COMMON
- No. 2 RED: FAULT
- No. 3 BROWN: ON/OFF



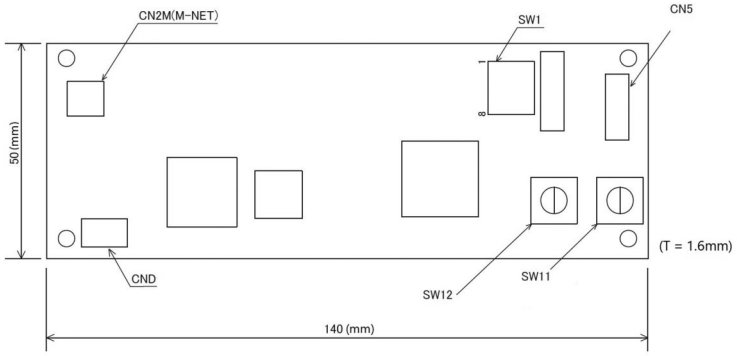
Wiring Diagram PAC-YG10HA

Input / Output cable (output)

- No.1 GREEN : COMMON
- No.2 BLACK: ON/OFF
- No.3 BROWN: FAULT

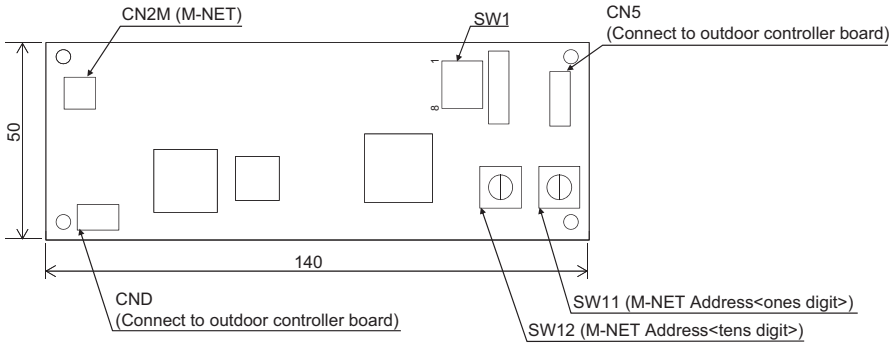


Product Dimensions PAC-SK15MA-E



Notes: Dimensional drawing of board, for cover dimensions please see page 7.30

Product Dimensions PAC-SJ95MA-E / PAC-SL16MA-E



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-597IF-E



- Wi-Fi Interface for MELCloud Home solution
- ATA and ATW support
- WPS and Wi-Fi pin pairing
- WPS Push mode
- Setting via PAR-42MAAB / PAR-SL103A-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-C400E and EW-C50E	AE-C400E and EW-C50E	AE-C400E and EW-C50E
Power Supply		12/24VAC/DC	-	24VDC	24VDC	24VDC
Dimensions (mm) (WxDxH)		130 x 30 x 80	173 x 19 x 51	200 x 45 x 120	200 x 45 x 120	200 x 45 x 120
Control	On/Off	✓	VFC	-	-	✓
	Mode	-	0 to 10VDC	-	-	x
	Setpoint	-	0 to 10VDC	-	-	x
	Fan Speed	-	0 to 10VDC	-	-	x
	Air Direction	-	-	-	-	x
	Permit/Prohibit	-	VFC	-	-	x
	Filter Sign	-	-	-	-	x
Monitor	On/Off	✓	VFC	-	-	✓
	Mode	-	VFC	-	-	x
	Setpoint	-	-	-	-	x
	Fan Speed	-	-	-	-	x
	Air Direction	-	-	-	-	x
	Permit/Prohibit	-	-	-	-	x
	Filter Sign	-	-	-	-	x
	Fault Codes	✓	VFC	-	-	✓
	Room Temperature	-	-	-	-	x
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.

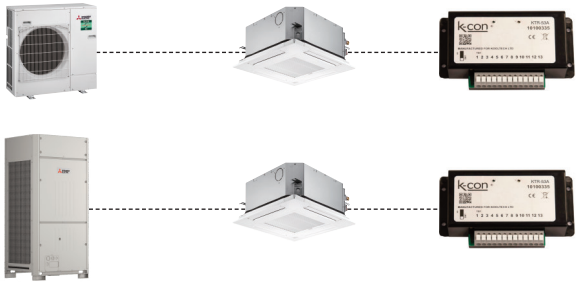
Advanced Interfaces

Technical Specification

ADVANCED INTERFACES		MAC-497IF-E	MAC-334IF-E	MAC-597IF-E	
					
				AIR CONDITIONING	ECODAN*
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)	MELCloud Home Wi-Fi Interface	MELCloud Home 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 and City Multi	Ecodan FTC7 / FTC6
Power Supply		-	-	-	-
Dimensions (mm) (WxDxH)		128 x 30 x 76	160 x 55 x 70	41.5 x 18.5 x 73.5	41.5 x 18.5 x 73.5
Control	On/Off	x	✓	✓	✓
	Mode	x	x	✓	✓
	Setpoint	x	x	✓	✓
	Fan Speed	x	x	✓	x
	Air Direction	x	x	✓	x
Monitor	On/Off	x	✓	✓	✓
	Mode	x	x	✓	✓
	Setpoint	x	x	✓	✓
	Fan Speed	x	x	✓	✓
	Air Direction	x	x	✓	✓
	Filter Sign	x	x	✓	✓
	Fault Codes	x	✓	✓	✓
	Room Temperature	x	x	✓	✓
On/Off but Centrally Controlled		x	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-597IF-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



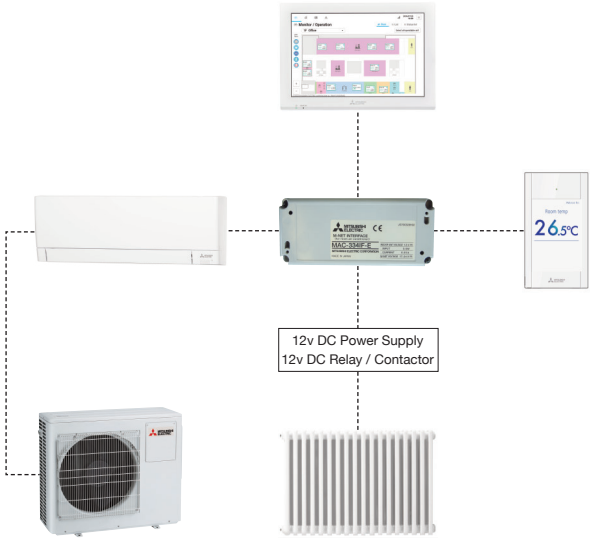
System Diagram MAC-497IF-E



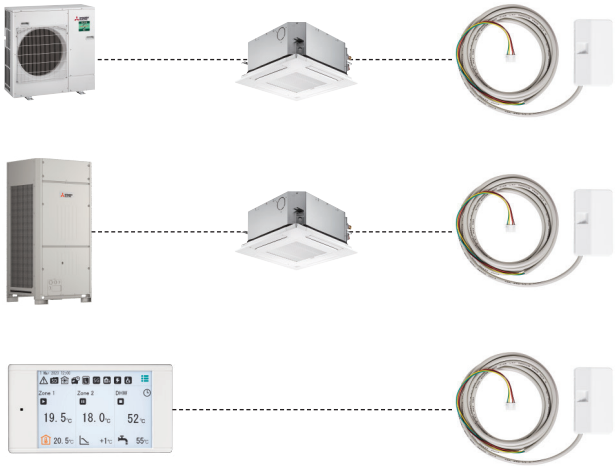
System Diagram MAC-334IF-E



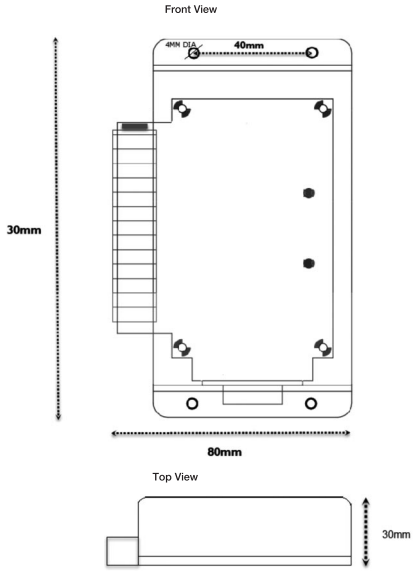
System Diagram MAC-334IF-E Heating Interlock



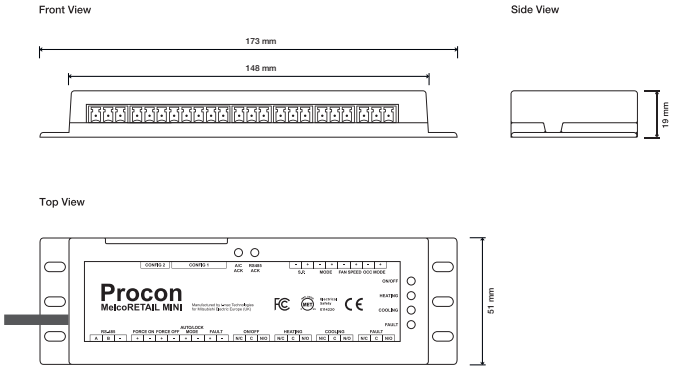
System Diagram MAC-597IF-E



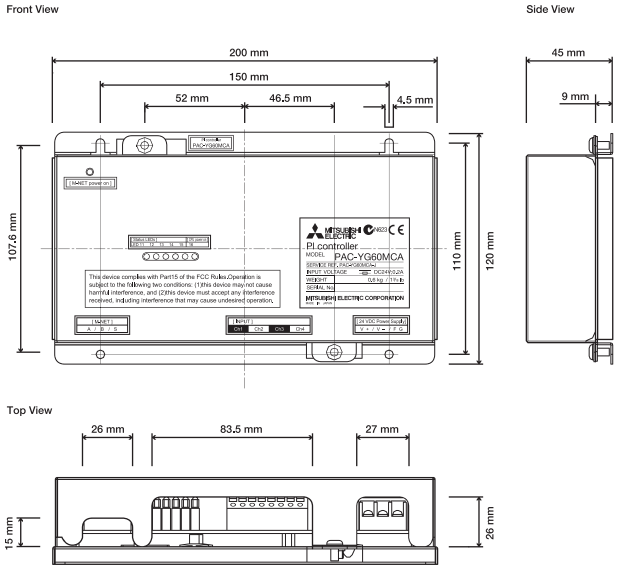
Product Dimensions KTR-53A



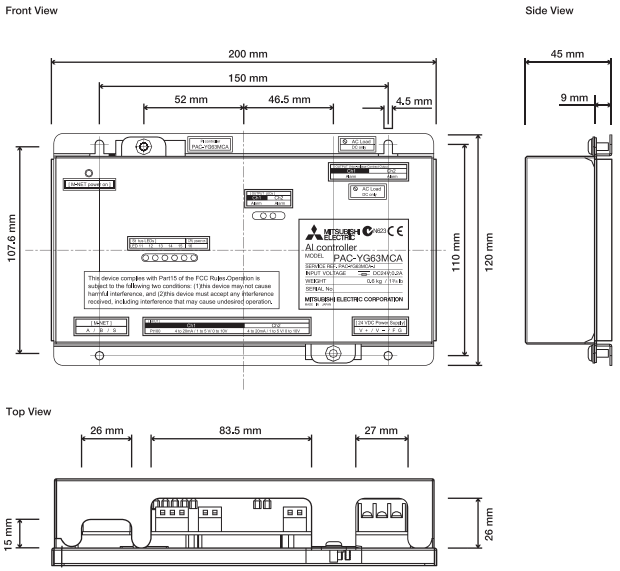
Product Dimensions MELCORETAIL MINI



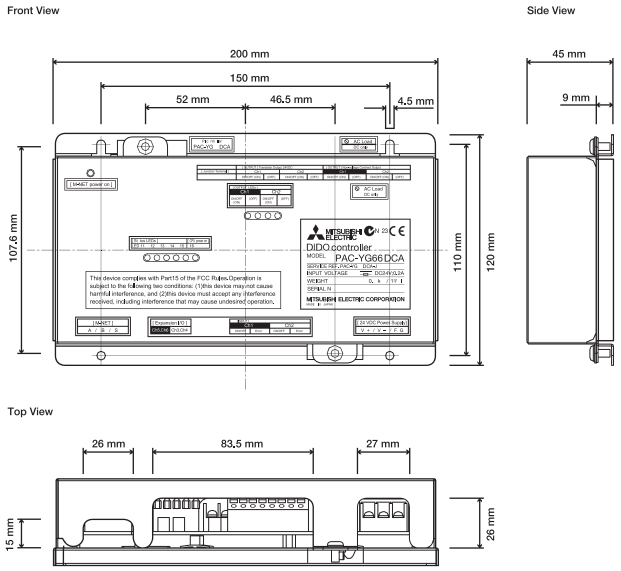
Product Dimensions PAC-YG60MCA



Product Dimensions PAC-YG63MCA

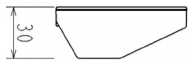


Product Dimensions PAC-YG66DCA

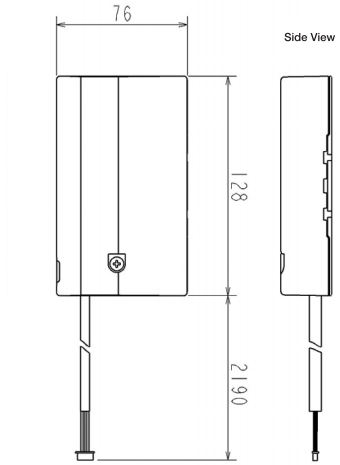


Product Dimensions MAC-497IF-E

Top View



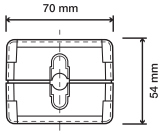
Front View



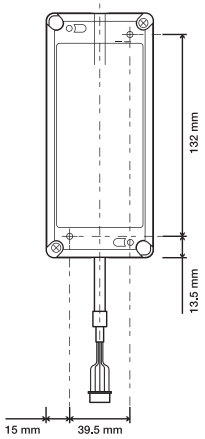
Side View

Product Dimensions MAC-334IF-E

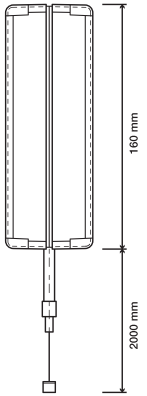
Top View



Front View

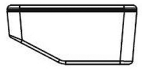


Side View

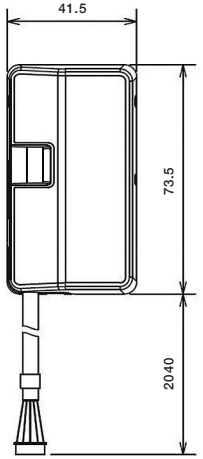


Product Dimensions MAC-597IF-E

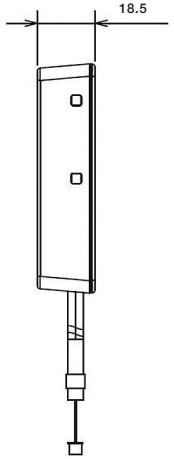
Top View



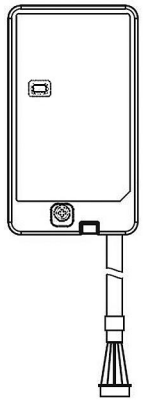
Front View



Side View



Rear 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+)



- 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 MINI (KNX A1M+)



- KNX & 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

MELCOBEMS2



- 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-C50E)
- 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

IQ5 XNC



- Monitor and control up to 50 indoor units
- Trend interface

BEMS Interfaces

Technical Specification

BEMS INTERFACES		MELCOBEMS MINI (A1M+) / (KNX A1M+)		MELCOBEMS2	MELCOBEMS SIP+
					
Description		Air to Air Splits Modbus/BACnet/KNX Interface. Air (Water) to Water & Lossnay Modbus/BACnet/KNX Interface		AE-C400E, EW-C50E Modbus BACnet Interface	Multiprotocol Gateway
Connect to		Indoor, Outdoor or Ecodan PCB		AE-C400E and EW-C50E	AE-C400E and EW-C50E
Max Number of Units		1		50	200
Compatibility		M Series, Mr Slim, City Multi, Ecodan FTC7/6/5/4, 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		45 x 60 x 110	108 x 60 x 90
Network		Modbus / BACnet IP / RS485*1 / KNX		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, RDM	Trend, Cylon, Satchwell, Crestron, Invensys, Interactive Homes, North BT, Andover, Siemens, WEMS, Andover Controls, York BMS, Siemens, Priva Building Intelligence, Delta Controls, RDM
		Air to Air Splits and Lossnay	Air (Water) to Water		
Control	On/Off	DI	AI	DI	DI
	Mode	AI	AI	AI	AI
	Setpoint	AI	AI	AI	AI
	Fan Speed	AI	-	AI	AI
	Air Direction	AI	-	AI	AI
	Permit/Prohibit	x	AI	DI	DI
	Filter Sign	DI	-	DI	DI
Monitor	On/Off	DO	DO	DO	DO
	Mode	AO	AO	AO	AO
	Setpoint	AO	AO	AO	AO
	Fan Speed	AO	-	AO	AO
	Air Direction	AO	-	AO	AO
	Permit/Prohibit	x	AO	DO	DO
	Filter Sign	DO	-	DO	DO
	Fault Codes	AO	AO	AO	AO
	Room Temperature	AO	AO	AO	AO
	Daily kW Energy	-	AO	With EW-C50E	With EW-C50E
	Monthly kW Energy	-	AO	With EW-C50E	With EW-C50E

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.
The MELCOBEMS2 can monitor indoor daily and monthly kWh when used in conjunction with AE-C400E, EW-C50E, PAC-YG60MCA on third party energy meters.

BEMS Interfaces

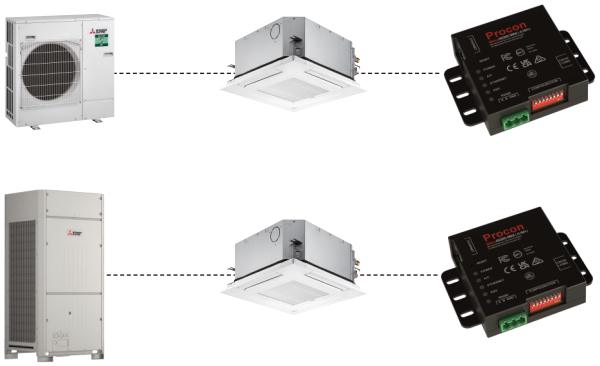
Technical Specification

BEMS INTERFACES		IQ4 XNC	IQ5 XNC
			
Description		AE-C400E and EW-C50E Trend Interface*1	AE-C400E and EW-C50E Trend Interface*1
Connect to		AE-C400E and EW-C50E	AE-C400E and EW-C50E
Max Number of Units		50	50
Compatibility		M Series, Mr Slim, City Multi and Lossnay	
Power Supply		220-240v, 50Hz	220-240v, 50Hz
Dimensions (mm) (WxDxH)		263 x 46 x 150	144.5 x 60 x 131
Network		Trend	Trend
BEMS Compatibility		Trend	
Control	On/Off	DI	DI
	Mode	AI	AI
	Setpoint	AI	AI
	Fan Speed	AI	AI
	Air Direction	AI	AI
	Permit/Prohibit	DI	DI
	Schedule	-	-
	Filter Sign	DI	DI
Monitor	On/Off	DO	DO
	Mode	AO	AO
	Setpoint	AO	AO
	Fan Speed	AO	AO
	Air Direction	AO	AO
	Permit/Prohibit	DO	DO
	Cloud Communication	-	-
	Filter Sign	DO	DO
	Fault Codes	AO	AO
	Room Temperature	AO	AO
	Daily kWh Energy	-	-
	Monthly kWh Energy	-	-
	Comfort Data	-	-

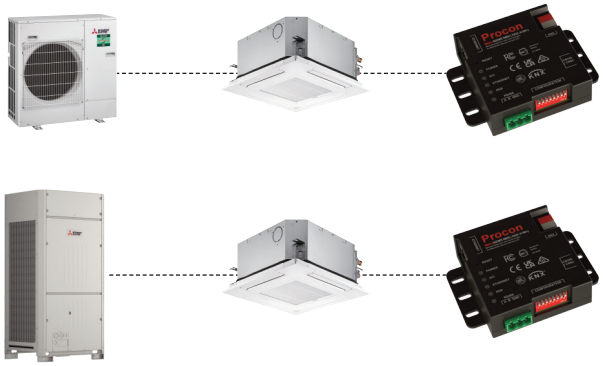
Key: DI = Digital Input. DO = Digital Output. AI = Analogue Input. AO = Analogue Output.

Notes:
The PAC-YG***CA are not compatible with MELCOBEMS2, IQ4 XNC and IQ5 XNC.
IQ4 XNC / IQ5 XNC controllers are not directly compatible with Mitsubishi Electric AE-C400E / EW-C50E controllers due to differing TLS versions used by each product.
A SIP IPe Melco Proxy device will need to be purchased along side the IQ4 XNC / IQ5 XNC device to enable communication.
*1 Synapsys Solutions Ltd, 1 Woodlands Court, Albert Drive, Burgess Hill, West Sussex, RH15 9TN, Telephone 0845 680 0303

System Diagram MELCOBEMS MINI (A1M+)



System Diagram MELCOBEMS MINI (KNX A1M+)



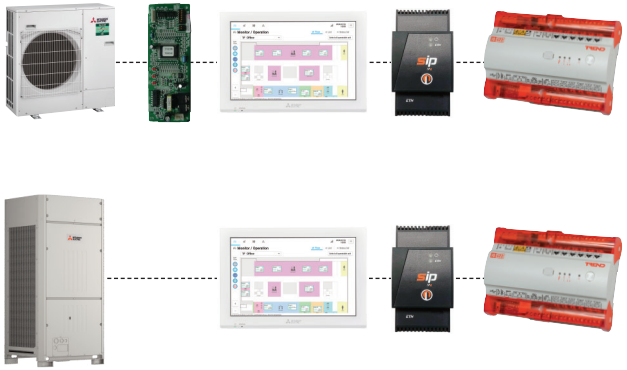
System Diagram MELCOBEMS2



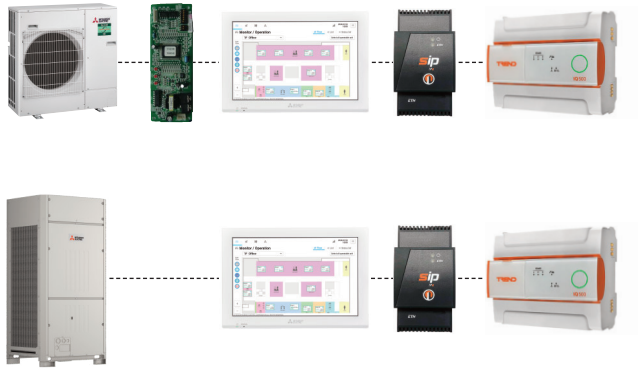
System Diagram MELCOBEMS SIP+



System Diagram IQ4 XNC

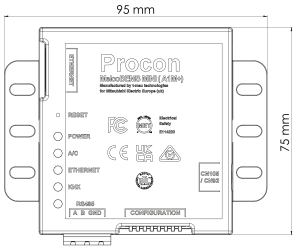


System Diagram IQ5 XNC

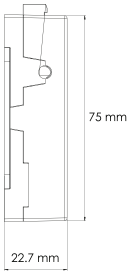


Product Dimensions MELCOBEMS MINI (A1M+)

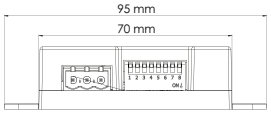
Front View



Side View

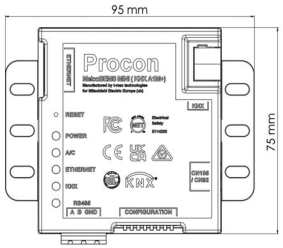


Lower View

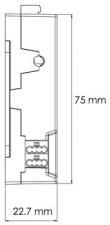


Product Dimensions MELCOBEMS MINI (KNX A1M+)

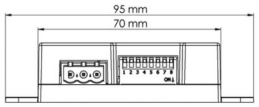
Front View



Side View

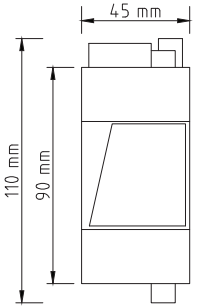


Lower View

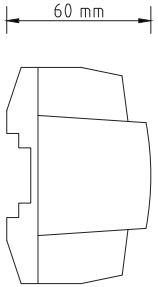


Product Dimensions MELCOBEMS2

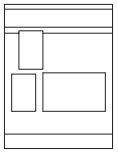
Front View



Side View

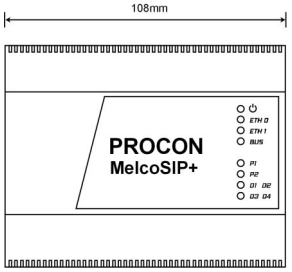


Top View

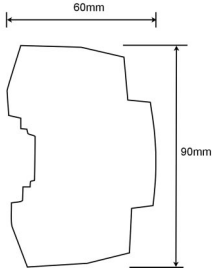


Product Dimensions MELCOBEMS SIP+

Front View

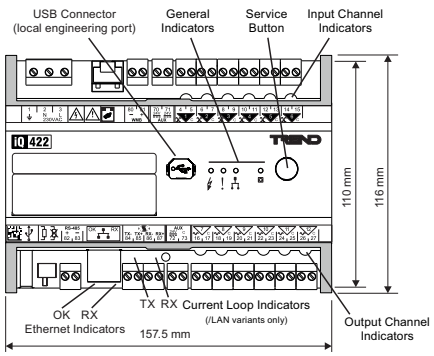


Side View

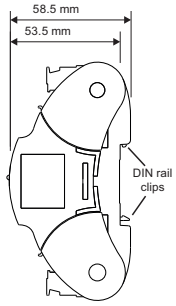


Product Dimensions IQ4 XNC

Front View

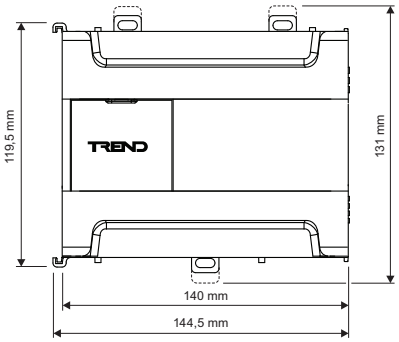


Side View

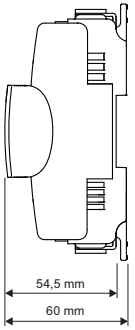


Product Dimensions IQ5 XNC

Front View



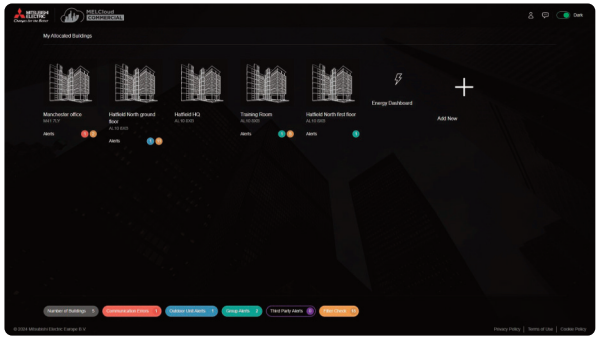
Side View



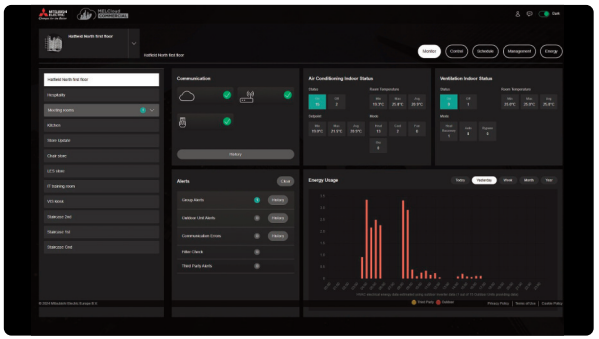
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Monitor & Control App Screen Examples

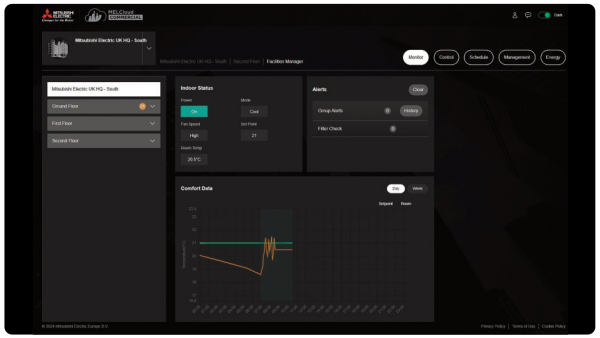
Estate View



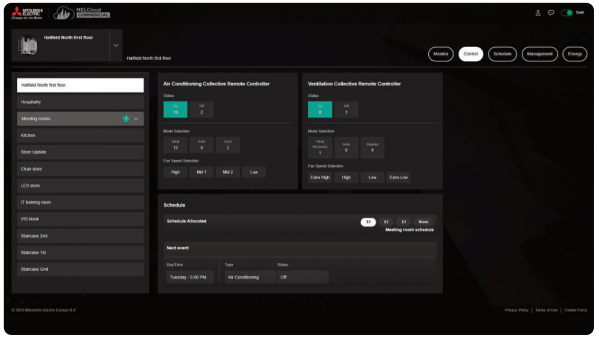
Building Level Monitoring & Energy Consumption



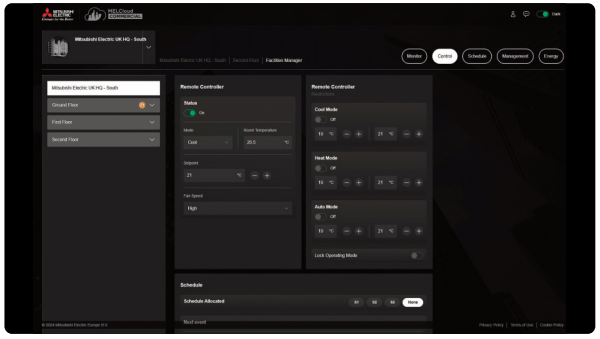
Room (Group) Level Monitoring



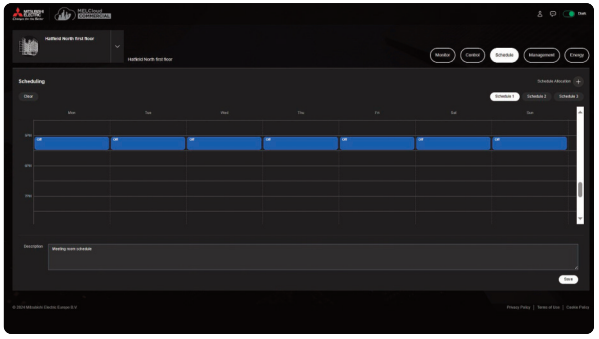
Building Level Control



Room (Group) Level Monitoring



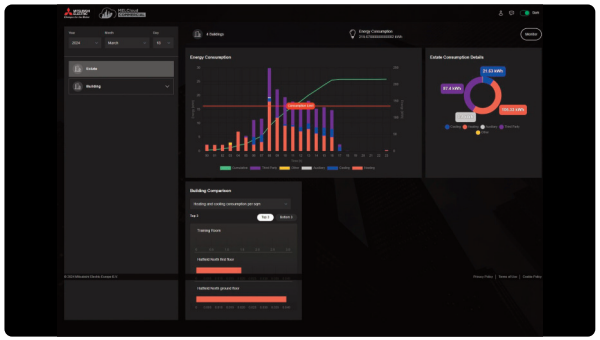
Building Level Scheduling



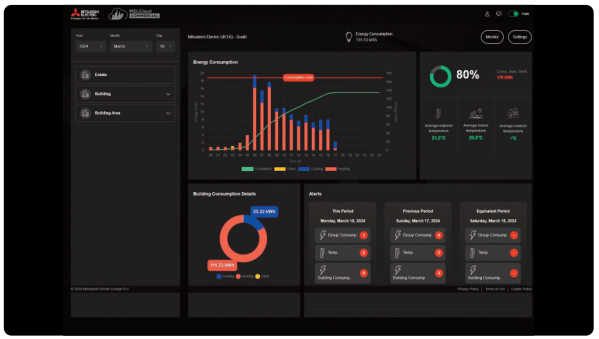
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Advanced Energy Monitoring App Screen Examples

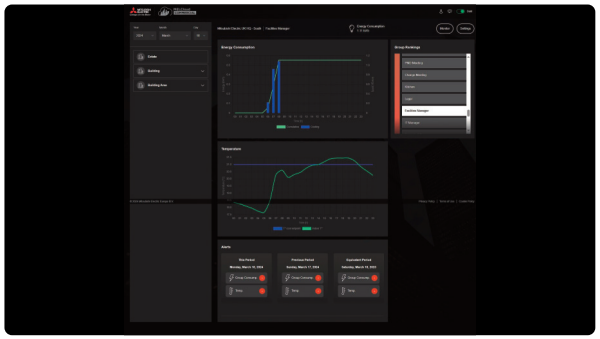
Estate Level Energy Monitoring



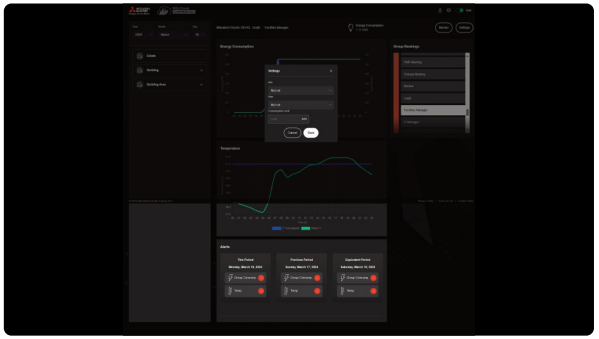
Building Level Energy Monitoring



Room (Group) Level Energy Monitoring



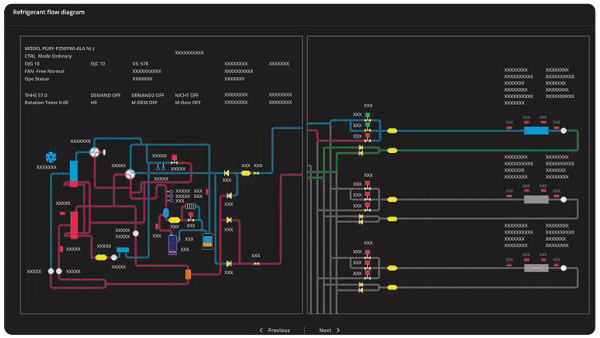
Room (Group) Level Temperature and Energy Limit Setting



MELCloud Commercial

Service & Maintenance App Screen Examples

Service & Maintenance - System Diagram



How to Quote

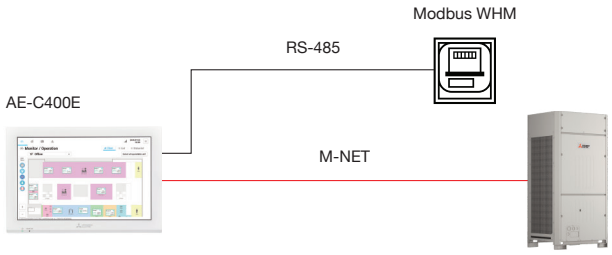
How to quote an AE-C400E System Controller with Energy Monitoring

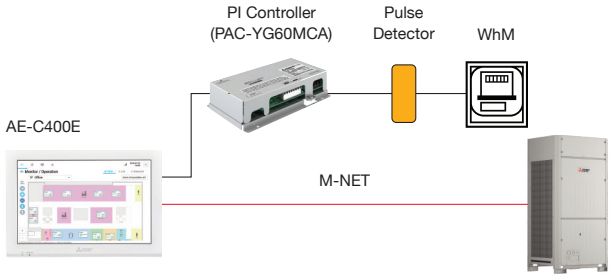
Energy Management

The AE-C400E and EW-C50E centralised controllers come with the Energy Management function. Please obtain a PIN to activate this via the Mitsubishi Electric MELServe Technical Services department.

- 4x Modbus Energy Meters can be connected directly to the centralised controller
- 4x Pulse Energy Meters can be connected to the centralised controller via PAC-YG60MCA PI Controller

Modbus or Pulse Meter Connection





How to Quote Energy Apportioning

Note: Must use Pulse Energy Meters for energy apportioning. Modbus Energy Meters will be compatible for energy apportioning from Q2 2026.

START

QUOTE FOR 1-8 AE-C400E OR EW-C50E

QUOTE FOR 1-8 ENERGY APPORTIONING PIN CODES
Only invoice for 1 PIN code

QUOTE FOR PAC-YG60MCA PI CONTROLLER(S)

LAN CONNECT AE-C400E & EW-C50E

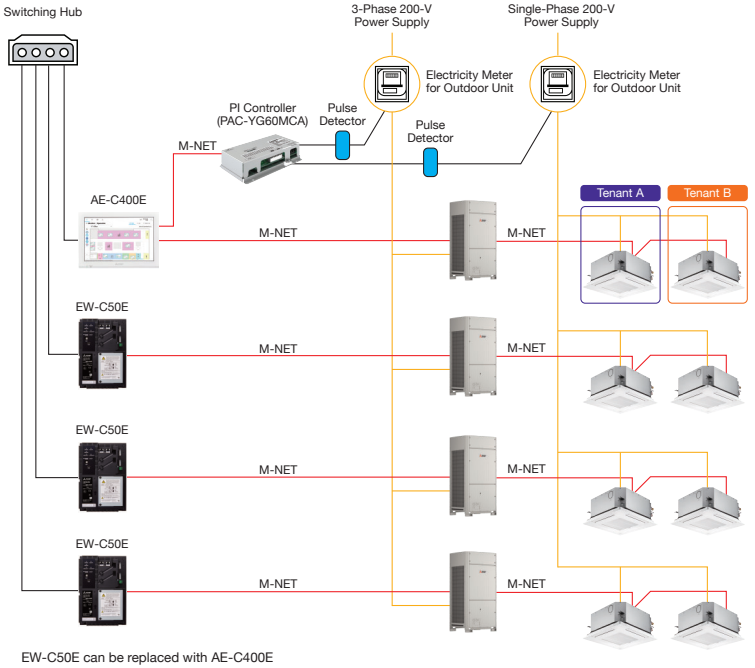
CONNECT PAC-YG60MCA PI CONTROLLER(S) AND PULSE ENERGY METERS

QUOTE 3 DAYS FIELD SERVICE COMMISSIONING

END

Example of Energy Apportioning System

Recommend 1 x Pulse Energy Meter per outdoor unit to improve granularity of data.



EW-C50E can be replaced with AE-C400E

How to Quote

How to quote an AE-C400E System Controller & BACnet Option

How to quote up to 400 indoor units

START

QUOTE FOR AE-C400E / EW-C50E

ARE MORE THAN 50 INDOOR UNITS TO BE CONNECTED?

Quote for 1-8 x AE-C400E / EW-C50E for expansion up to 400 indoor units to create system control group

9 WIRE ADAPTER REQUIRED?

Quote for 1 x PAC-YG10HA per AE-C400E & EW-C50E

END

How to quote up to 2,000 indoor units

START

The comprehensive management browser allows the monitoring and control of up to 2,000 indoor units connected to a maximum of 40 x AE-C400E / EW-C50E controllers

HOW MANY AE-C400E SYSTEM CONTROL GROUPS?

Quantity of AE-C400E / EW-C50E system control groups from up to 2,000 indoor selections

LAN CONNECT UP TO MAX 40 x CENTRAL CONTROLLERS

LAN connect all centralised controllers together with CAT5/6 cable - max 100m distance from each AE-C400E / EW-C50E to Hub/Switch

ADD 1 DAY FIELD SERVICE COMMISSIONING

Quote for 1 x day field service commissioning

END

How to quote BACnet Option

START

QUOTE 1 x BACNET PIN CODE PER AE-C400E / EW-C50E

Quote for 1-8 x BACnet pin code per AE-C400E / EW-C50E system control group. Invoice for 1 PIN code

QUOTE 1 DAY FIELD SERVICE COMMISSIONING

Quote for 1 x day field service commissioning

END

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.

Contents

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MELServe Chiller Service and Maintenance for Central Plant and IT Cooling	8.9
Mitsubishi Electric Product Training	8.10
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MELSERVE
By Mitsubishi Electric

MELServe 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 MELServe approach to ensure our customers are able to maximise the energy efficiency of their building's services right from the start.

MELServe 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.

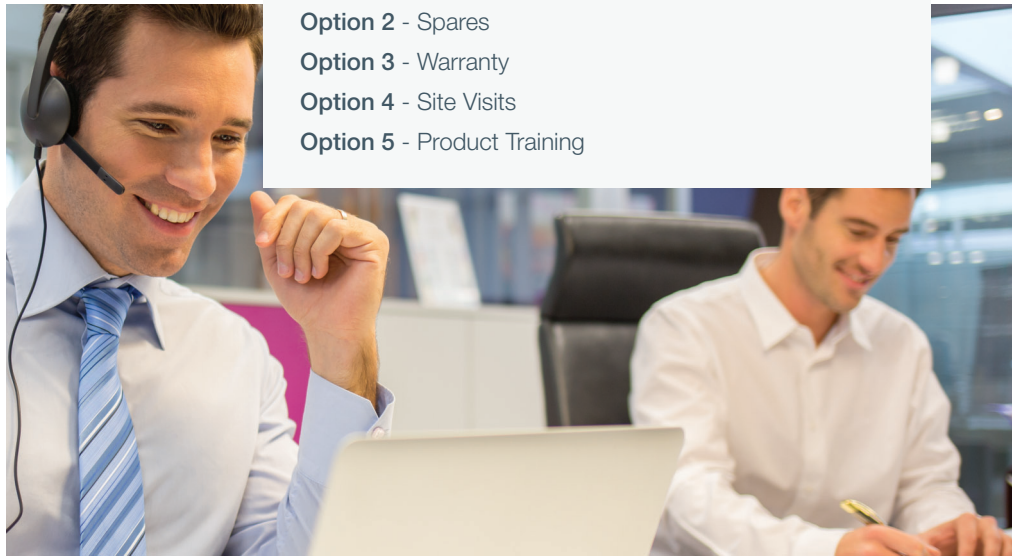
MELServe Customer Services & Support

Telephone: 0161 866 6089

Option 2 followed by:

Option 1 - Technical Support
Option 2 - Spares
Option 3 - Warranty
Option 4 - Site Visits
Option 5 - Product Training





MELSERVE
By Mitsubishi Electric

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

Type of Commissioning	Detail
Air Conditioning	Max 2 City Multi systems per day
Controls	1 x AE-C400E and up to 4 x EW-C50E per day
Hybrid VRF	Max 1 City Multi Hybrid VRF system per day
e-Series	Max 2 chillers per day
Commercial Heating	Ecodan CAHV - Max 2 units per day* Ecodan QAHV - 2 day commissioning visit (includes 1/2 day mid-install visit)*

Control System	Commissioning Days	Charge Pin Codes	BACnet Pin Code
1 x AE-C400E + 1-4 EW-C50E	1 day	1 - 5	1 - 5
2 x AE-C400E + 1-4 EW-C50E	2 days	1 - 10	1 - 10
3 x AE-C400E + 1-4 EW-C50E	3 days	1 - 15	1 - 15
4 x AE-C400E + 1-4 EW-C50E	4 days	1 - 20	1 - 20
5 x AE-C400E + 1-4 EW-C50E	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. 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.

For BACnet and/or Energy commissioning, the above times are guidance only and may differ based on quantity of units/systems.

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.





MELSERVE
By Mitsubishi Electric

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.





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	
 	PURY-EM YXM-A PURY-M YXM-A PUHY-M YXM-A	Small Module
 	PURY-EM YXM-A PURY-M YXM-A PUHY-M YXM-A	Large Module
 	PURY-EM/EP YNW-A1/2 PURY-M/P YNW-A1/2 PUHY-P YNW-A2	Small Module
 	PURY-EM/EP YNW-A1/2 PURY-M/P YNW-A1/2 PUHY-P YNW-A2	Large Module
 	PURY-EM/EP YNW-A1/2 PURY-M/P YNW-A1/2 PUHY-P YNW-A2	Extra Large Module

MEL>SERVE
By Mitsubishi Electric

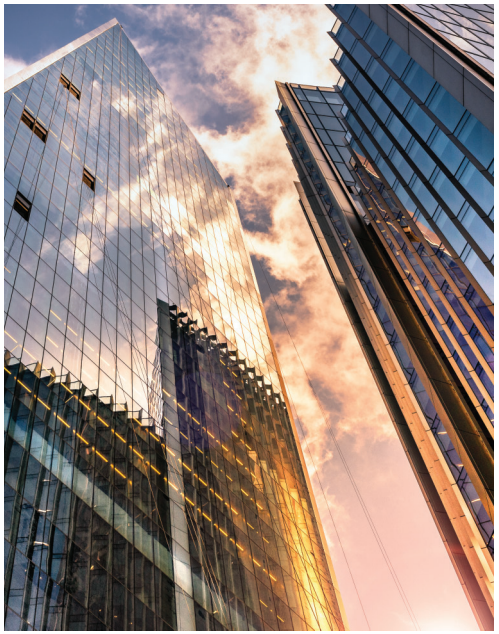
Chiller Service and Maintenance for Central Plant and IT Cooling

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:

Telephone: 01707 278650
Option 1 - Scotland
Option 2 - London & South
Option 3 - Manchester & North
Option 4 - Midlands & Wales
Option 5 - Applied Spares

Regional Office Emails:
melserve.south@meuk.mee.com
melserve.north@meuk.mee.com
melserve.midlands@meuk.mee.com
melserve.scotland@meuk.mee.com

Existing Customer Email: melserve.renewals@meuk.mee.com

New Customer Email: melserve@meuk.mee.com

Spare Parts Enquiries (CV/RC IT products) Email:
melserve.appliedspares@meuk.mee.com

MITSUBISHI ELECTRIC UK
TRAINING ACADEMY

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.

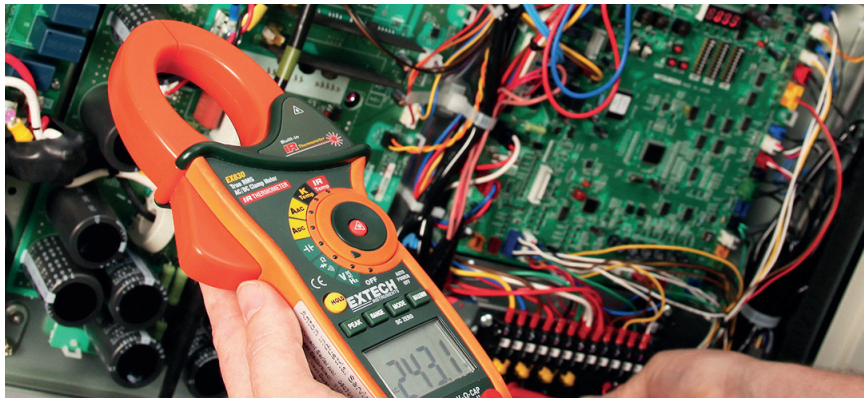
Providing product training for all levels of expertise, our courses are taught by experienced engineers, with a wealth of knowledge and are all CPD accredited. In addition to the CPD courses, we can also now offer LCL Level 3 Regulated Quality Framework (RQF) qualifications for heat pumps.

CPD CERTIFIED
The CPD Certification Service

For bookings please telephone

0161 866 6089 (Option 2, Option 5)

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	R290 Air to Air	R290A
M Series and Mr Slim	Installation, Service and Fault Finding	MPISF
M Series and Mr Slim	M&P Hands On	HO M&P
e-Series	e-Series (EAHV)	EAHV
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	Hands-on	EHO
Ecodan	Commercial Heating (CAHV)	CH
Ecodan	Ecodan R290	R290E
Lossnay	Design, Application, Installation and Commissioning	LOSS
Controls	AE-C400E	CON400
LCL Award L3 (RQF)	Low Temperature Heating and Hot Water Systems in Dwellings	LCL LTHWS
LCL Award L3 (RQF)	Installation and Maintenance of Air Source Heat Pump Systems (non-refrigerant circuits)	LCL ASHPS
LCL Award	Water Regulations	LCL WRAS





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.

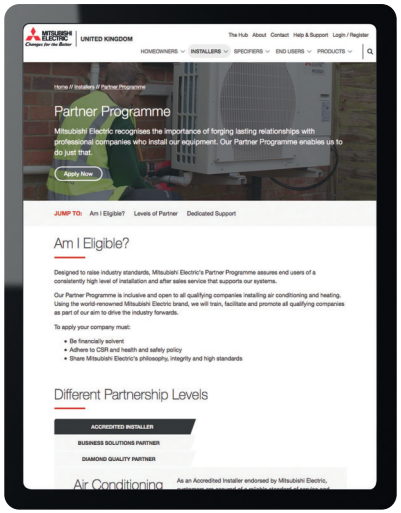
Getting the right balance between capital cost, system efficiencies, installation costs and operating costs are key areas where we can support you. Each Business Development Manager has extensive product knowledge and application experience and is here to help with everything, including guidance on new and changing legislation.





PARTNER Programme

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.

Register now at: **les.mitsubishielectric.co.uk/installers/partner-programme**

For any questions email: **Partner@meuk.mee.com**





Grow Your Business
with Mitsubishi Electric

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 accessed.

Take a look today and see how you can use this to grow your business:
les.mitsubishielectric.co.uk/Security/login

Co-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.

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. We offer items such as: RAB and The North Face jackets, beanies, polo shirts, Stanley cups, pens, notepads and so much more.

Product and Industry Training

Our Partners receive a free allocation of training courses and additional courses can be funded from their Relationship Development Fund.

Extended Warranty

Partners can offer their customers up to 10 year warranty on selected products. Subject to T&Cs.

Committed Carbon Reduction Partner (CCRP)

Partners have access to a new accreditation reflecting a commitment towards sustainable practices. The CCRP accreditation will provide a competitive advantage for our Partners, showcasing a proven dedication to reducing the operational carbon footprint through an annually calculated reduction plan, helping them on the road to Net Zero.

COMMITTED CARBON REDUCTION PARTNER

Carbon Footprint Calculation

Partners are invited to use their RDF to conduct a Carbon Footprint Calculation of their business, a crucial step on the road to net zero. We've made this a simple process via our Partner portal, with the calculation work conducted using an approved supplier.

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.

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.

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**

e-Shop

Online ordering is available to all credit account customers across both Finished Goods (M Series and Mr Slim) and Spare Parts.

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

Changes for the Better

Telephone: **01707 282880**

MELServe Customer Services & Support: **0161 866 6089**

Option 1 - Homeowners
Option 2 - Commercial Products
Option 3 - Residential Ecodan Installer or Service Provider

Commercial Product Options (following Option 2)
Option 1 - Technical Support
Option 2 - Spares
Option 3 - Warranty
Option 4 - Site Visits
Option 5 - Training

Middlesex: 020 8783 1008
Scotland: 01786 450 348

email: **livingenvironmentalsystems@meuk.mee.com**
website: **les.mitsubishielectric.co.uk**

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

Green Gateway
www.greengateway.mitsubishielectric.co.uk
Mitsubishi Electric UK's commitment to the environment

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Follow us @green_gateway

Mitsubishi Electric
Living Environmental Systems UK

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Mitsubishi Electric
Cooling and Heating UK

Mitsubishi Electric
Living Environmental Systems UK

BLOG thehub.mitsubishielectric.co.uk