



Hybrid

CITY MULTI





Why Choose Mitsubishi Electric?

Whether it is consistent heating or cooling for the home or office, Mitsubishi Electric offers you state-of-the-art technology that is quiet, simple to use, energy efficient, and above all, reliable.

Innovation

Mitsubishi Electric offers innovative solutions that really can make a world of difference. Through our technical expertise, we enable building operators to significantly improve energy efficiency, reduce running costs and stay ahead of the curve with legislation.

Quality & Reliability

When it comes to comfort, efficiency and durability, Mitsubishi Electric is distinctive, and in a very good way. We call it MEQ — Mitsubishi Electric Quality. The MEQ standard results in product tested in accordance with the Mitsubishi Electric standard, it's simply a different standard of testing. Every Mitsubishi Electric air conditioner for each production line, is placed on a testing rig and undergoes a variety of stringent tests before leaving the factory.

Flexible Choice

Mitsubishi Electric air conditioners range from wall mounted, floor standing, ceiling concealed, ceiling cassettes to ceiling suspended units; offering end-users flexibility, with a wide range of options to satisfy most application requirements.

After Sales Service & Spare Parts

We pride ourselves on our local after sales support, including in-house technical support and spare parts support.





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What is Hybrid VRF

The Hybrid VRF is part of the CITY MULTI product range, which consists of VRF air conditioning units that use refrigerant between the outdoor unit and the branch controller, and water between the branch box and the indoor units, designed for medium to large scale applications. Efficiency and reliability are at the very core of the Mitsubishi Electric Hybrid VRF systems.

The Hybrid VRF offers flexibility in design and installation, making it the perfect solution for substantial spaces, such as those found in high-rise buildings, commercial buildings, shopping centres, hospitals, hotels and educational facilities. It is simple to install and can be installed in stages, allowing for phased and scalable installations.

The Hybrid VRF utilises the same reliable network and control system as VRF systems and is installed as a VRF, though it provides additional benefits, with ability to be used as a Chiller system. This is achieved through the installation of a simple 2-pipe heat recovery VRF with water in between the Hybrid Branch Controller (HBC) and indoor units.

Circulating water in the fan coil network allows better regulation of air temperature, ensuring a comfortable user experience. The Hybrid VRF is compliant with AS/NZS 5149, as no refrigerant is used in inhabited spaces, thus eliminating the need for leak detection systems in occupied spaces.

Hybrid CITY MULTI

The industry's first and only technology

#worksforME



An Industry First Technology

As a leading company in the industry, Mitsubishi Electric developed the Hybrid CITY MULTI as an innovative CITY MULTI system by using industry first technology.

The Hybrid CITY MULTI is the industry's first system which uses refrigerant between the outdoor unit and the HBC (Hybrid Branch Controller), and water between the HBC and the indoor units.

The HBC is the most unique part in this system and allows heat exchange between refrigerant and water.

Ideal Comfort

Providing more stable and mild-off coil temperatures through water based Hybrid VRF indoor units.

Energy Saving

2-pipe heat recovery is available with air cooled and water cooled systems. This helps energy saving during simultaneous heating and cooling operation as heat recovery is performed between the heat exchangers in the HBC.

Easy Installation

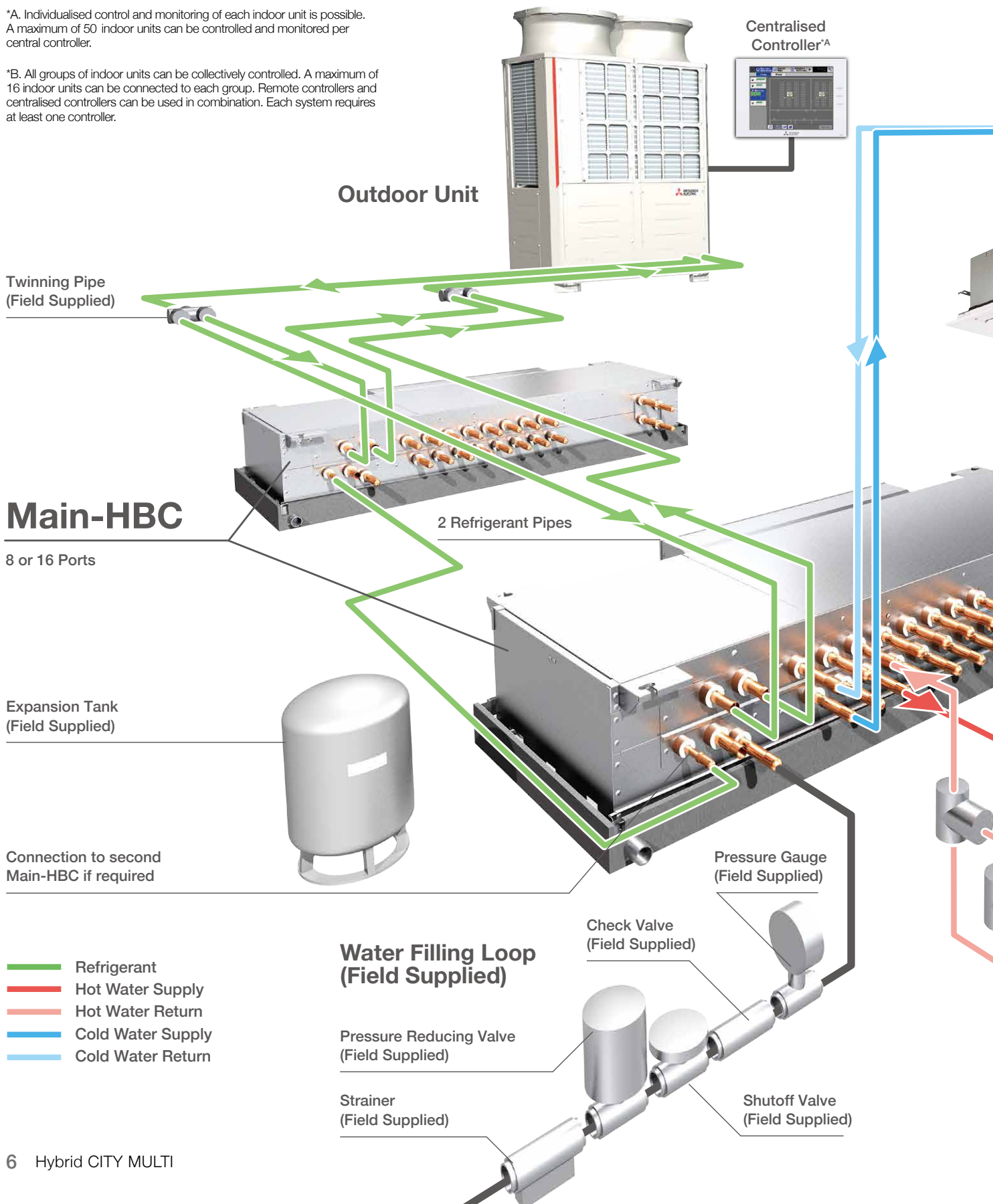
Easy installation compared with central air conditioning system with 4-pipe for heat recovery.

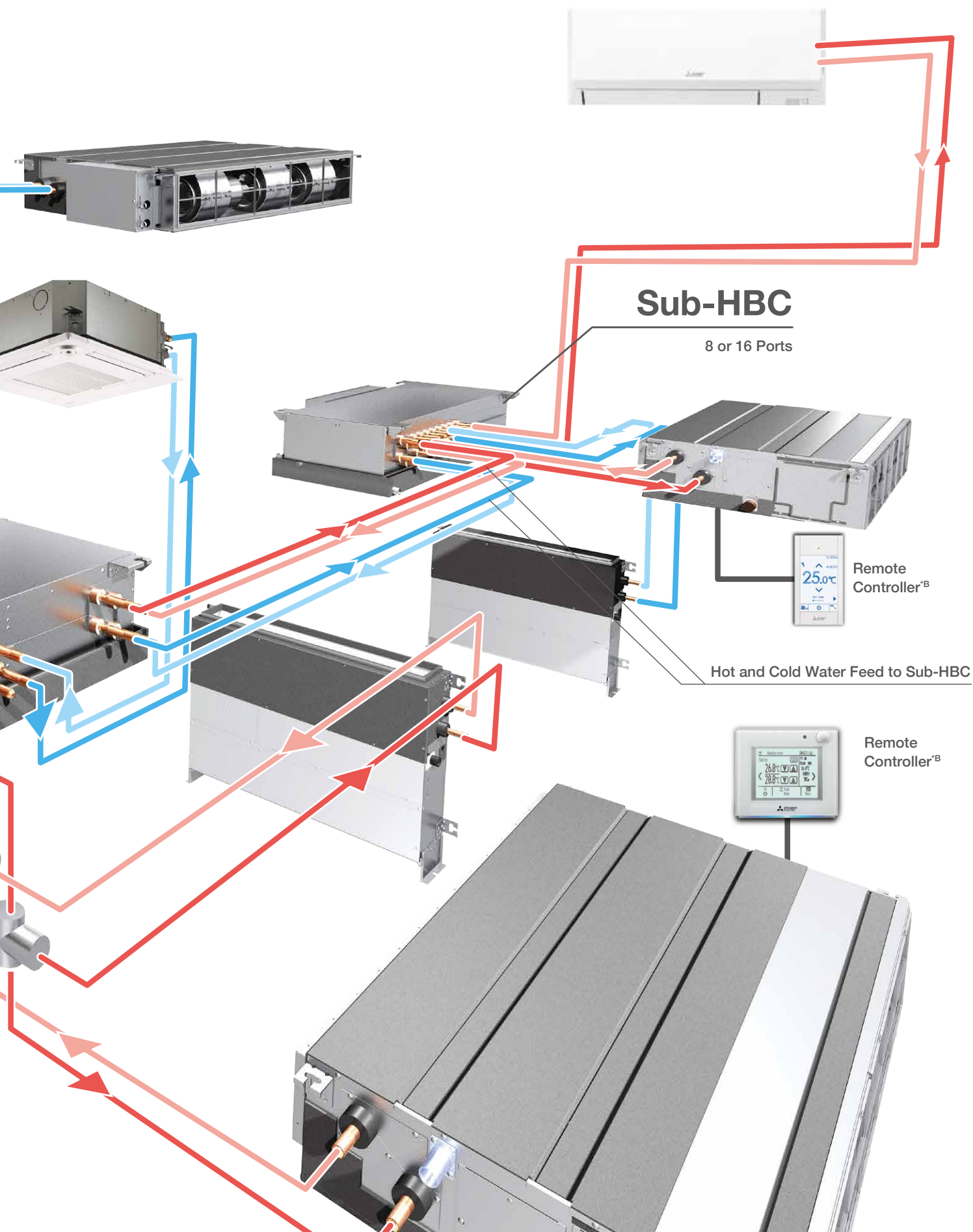
System Structure

Hybrid CITY MULTI is a system that uses both refrigerant and water, which was made possible by the development of the HBC. The refrigerant between the outdoor unit and the HBC, and water between the HBC and the indoor units, produce milder off coil temperatures helping to create a more comfortable living environment.

*A. Individualised control and monitoring of each indoor unit is possible. A maximum of 50 indoor units can be controlled and monitored per central controller.

*B. All groups of indoor units can be collectively controlled. A maximum of 16 indoor units can be connected to each group. Remote controllers and centralised controllers can be used in combination. Each system requires at least one controller.



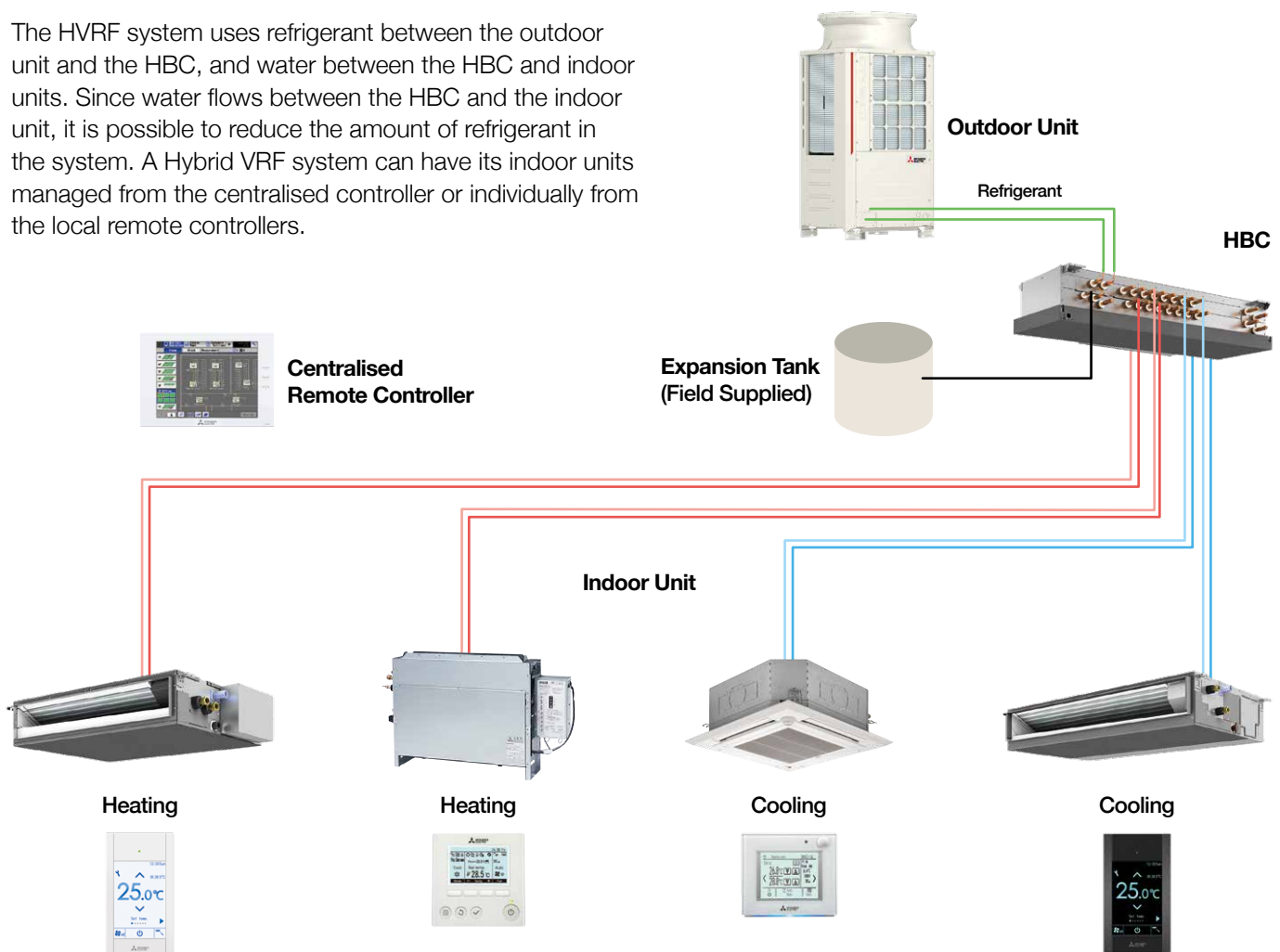


R32

Mitsubishi Electric expands its Hybrid VRF offering by adding R32 systems to its line up in addition to R410A systems.

The choice of HVRF R32 provides flexibility and a step forward in the VRF industry.

The HVRF system uses refrigerant between the outdoor unit and the HBC, and water between the HBC and indoor units. Since water flows between the HBC and the indoor unit, it is possible to reduce the amount of refrigerant in the system. A Hybrid VRF system can have its indoor units managed from the centralised controller or individually from the local remote controllers.



Why Choose Hybrid CITY MULTI?

Mild Air Conditioning

Achieved by a water system between the HBC and the indoor units, the water temperature is generally very stable all year round. The Hybrid CITY MULTI will supply milder off coil temperatures.

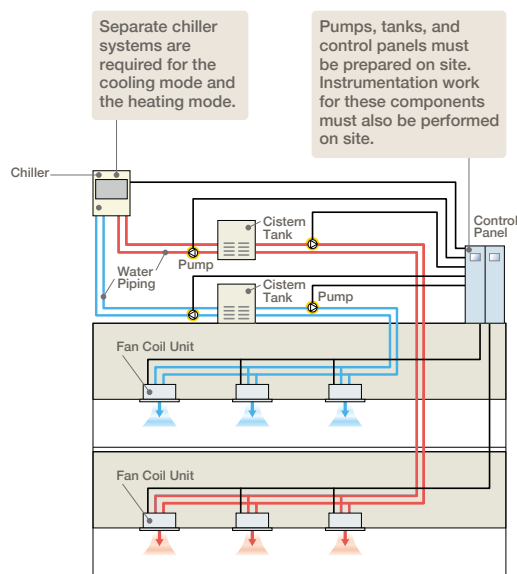
Energy Efficiency

Consumes less energy by heat recovery operation if cooling and heating operation are used at the same time. The more frequently cooling and heating simultaneous operation occurs, the higher the energy-saving effect becomes. Even higher efficiency operation is now possible by utilising the centralised control and the scheduled operation.

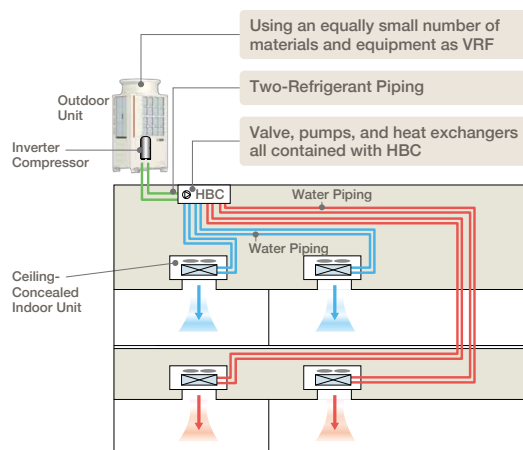
Comparison against the 4-Pipe System

The HVRF Series contributes to reduced installation work. Because HBC houses the pump, heat exchanger, and other major components, it requires a fewer number of components to be installed, compared to four-pipe chiller systems.

4-Pipe Chiller System



2-Pipe Heat Recovery System

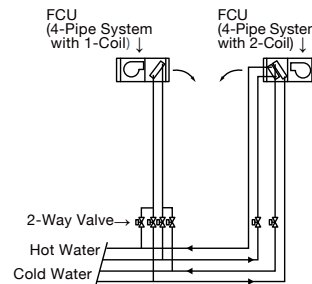


Simultaneous Cooling/Heating Operation

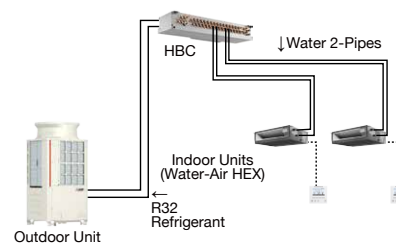
Provides air conditioning corresponding to various needs. With the 2-pipe system, direction of refrigerant flow will not reverse when the main mode changes. The compressor does not need to stop when the mode changes. This allows comfortable air conditioning during mild ambient conditions.

Comparison Example of Central AC System and Hybrid CITY MULTI

Simultaneous Cooling/Heating Operation in the Central AC system



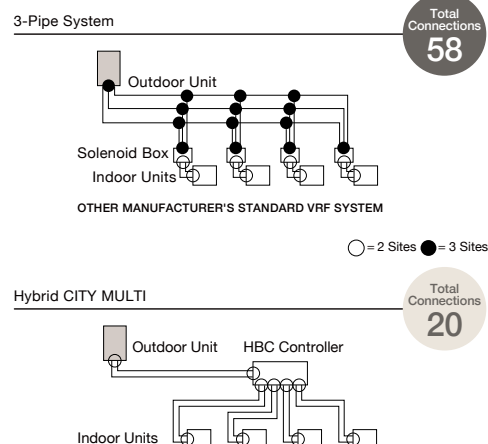
Simultaneous Cooling/Heating Operation in the Hybrid CITY MULTI System



Less Installation Work

Achieved by the world's first and only 2-pipe system that allows easier installation than a central AC system. A central AC system requires 2 heat sources (Chiller and Boiler) and 4 pipes to each fan coil unit. With this 2-pipe system, we have reduced the number of piping connections compared to a standard VRF 3-pipe system. A smaller number of piping connections lead to an improvement in reliability and simpler piping installation. Also, brazing is not necessary if plastic water pipe is used between the HBC and the indoor units.

Comparison Example of Piping Connections



The Use of Refrigerant with Lower GWP

Mitsubishi Electric adopted R32 refrigerant for the first time in the industry for VRF Systems² (Variable Refrigerant Flow due to growing concern for global warming). The HVRF Series utilising R32 Refrigerant which has a reduced GWP value compared to R410A.

*1. Source: IPCC 4th Assessment Report, global warming potential (GWP) 100-year value. Comparison of 2088 (R410A) and 675 (R32).

*2. As of June 2018. Source: Research conducted by Mitsubishi Electric.

Comparison of GWP



Reduction in GWP compared to R410A



$$\text{CO}_2 \text{ amount} = \text{GWP} \times \text{Refrigerant volume}$$

Synergistic Effect on CO₂ Equivalent

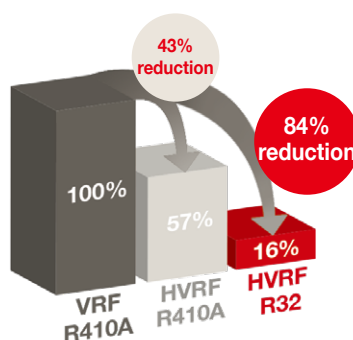
When HVRF technology is combined with R32 refrigerant it can lead to massive reductions in CO₂ equivalent.

| | | VRF R410A | HVRF R410A | HVRF R32 |
|----------------------------|------------|-----------|------------|----------|
| Refrigerant Volume | Total (kg) | 24.4 | 13.8 | 11.6 |
| | GWP | 2088 | 2088 | 675 |
| CO ₂ Equivalent | t | 50.94 | 28.81 | 7.83 |
| | | | | |

Annotations for CO₂ Equivalent reduction:

- VRF R410A to HVRF R410A: 43% reduction (50.94 to 28.81)
- HVRF R410A to HVRF R32: 72% reduction (28.81 to 7.83)
- VRF R410A to HVRF R32: 84% reduction (50.94 to 7.83)

Comparison of CO₂ Equivalent



*Based on the following simulation condition:

Application: Hotel (20 rooms/same size).

Outdoor Unit: 33.5kW x 1; Indoor Unit: P20 (2.2kW) x 20.

VRF: BC Controller 16 ports + 4 ports sub; HVRF: HBC 16 ports + 8 ports sub.

Total refrigerant piping length: 264m (VRF), 40m (HVRF).

Piping length from outdoor unit to BC controller: 40m (VRF/HVRF).



Requires Less Refrigerant

Our HVRF uses much less refrigerant compared to standard VRF system because it uses water between its HBC and indoor units. Furthermore, the size of the main piping in systems for R32 is downsized compared to R410A HVRF system, which further reduces the total refrigerant amount.

| Case Study | | | | |
|--|---------------|--------------------|---------------------|-------------------|
| | | VRF R410A <YNW> | HVRF R410A <YNW> | HVRF R32 <YNW> |
| Total refrigerant piping length (m) | | 264 | 40 | 40 |
| Refrigerant volume | Total (kg) | 24.4 | 13.8 | 11.6 |

Refrigerant
volume
reduction

Comparison of Refrigerant Amount



Reduction in Refrigerant Compared to the VRF

*Based on the following simulation condition.

*Simulation condition

Application image: Hotel (20 rooms/same size)

Outdoor unit: 33.5kW x 1, Indoor unit: P20 (2.2kW) x 20

VRF: BC controller 16 ports + 4 ports sub

HVRF: HBC 16 ports + 8 ports sub

Total refrigerant piping length: 264m (VRF), 40m (HVRF)

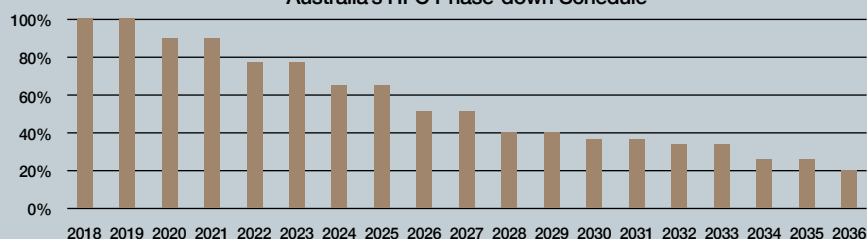
Piping length from outdoor unit to BC controller: 40m (VRF/HVRF)

Moving Towards Meeting Future Requirements

Over the course of the phase-down manufacturers are required to reduce the CO₂ emissions. Manufacturers can usually reduce their CO₂ equivalent with the options below:

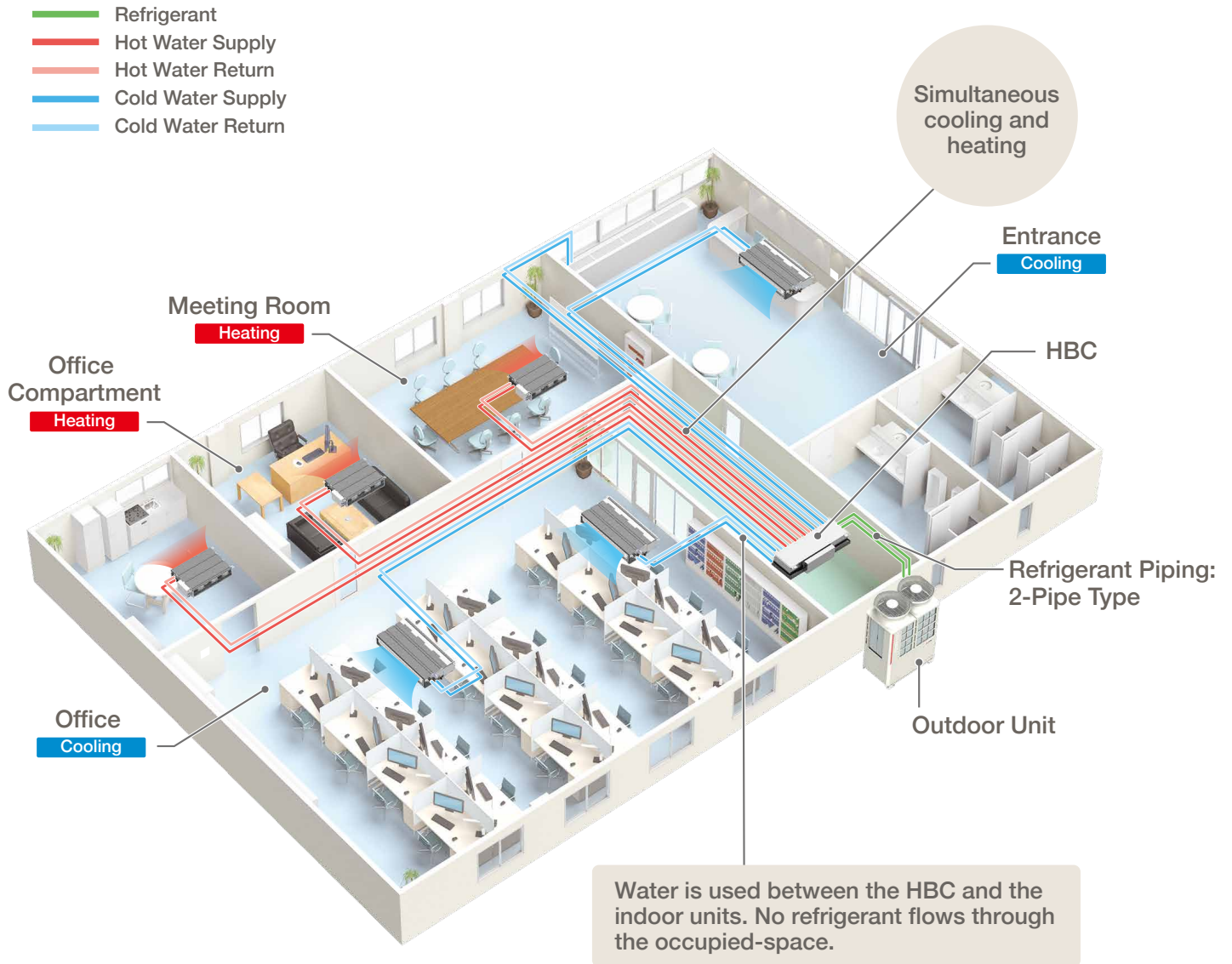
- 1) Use lower GWP refrigerants
- 2) Reduce the amount of refrigerant used

Australia's HFC Phase-down Schedule



Two-Pipe Simultaneous Cooling/Heating System

Installation



S Module
(22.4-33.5kW)



L Module
(40-50kW)

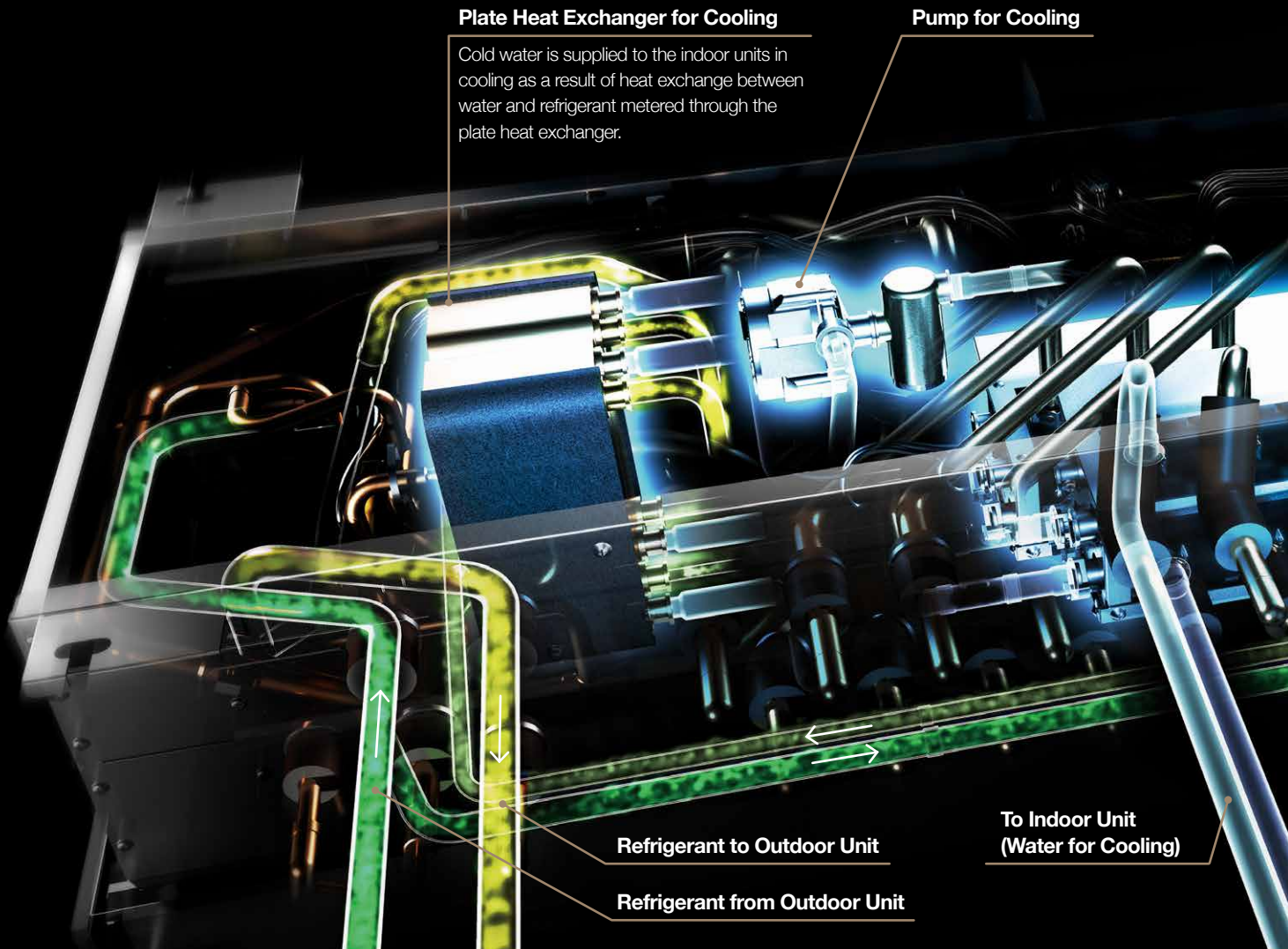


XL Module
(56kW)

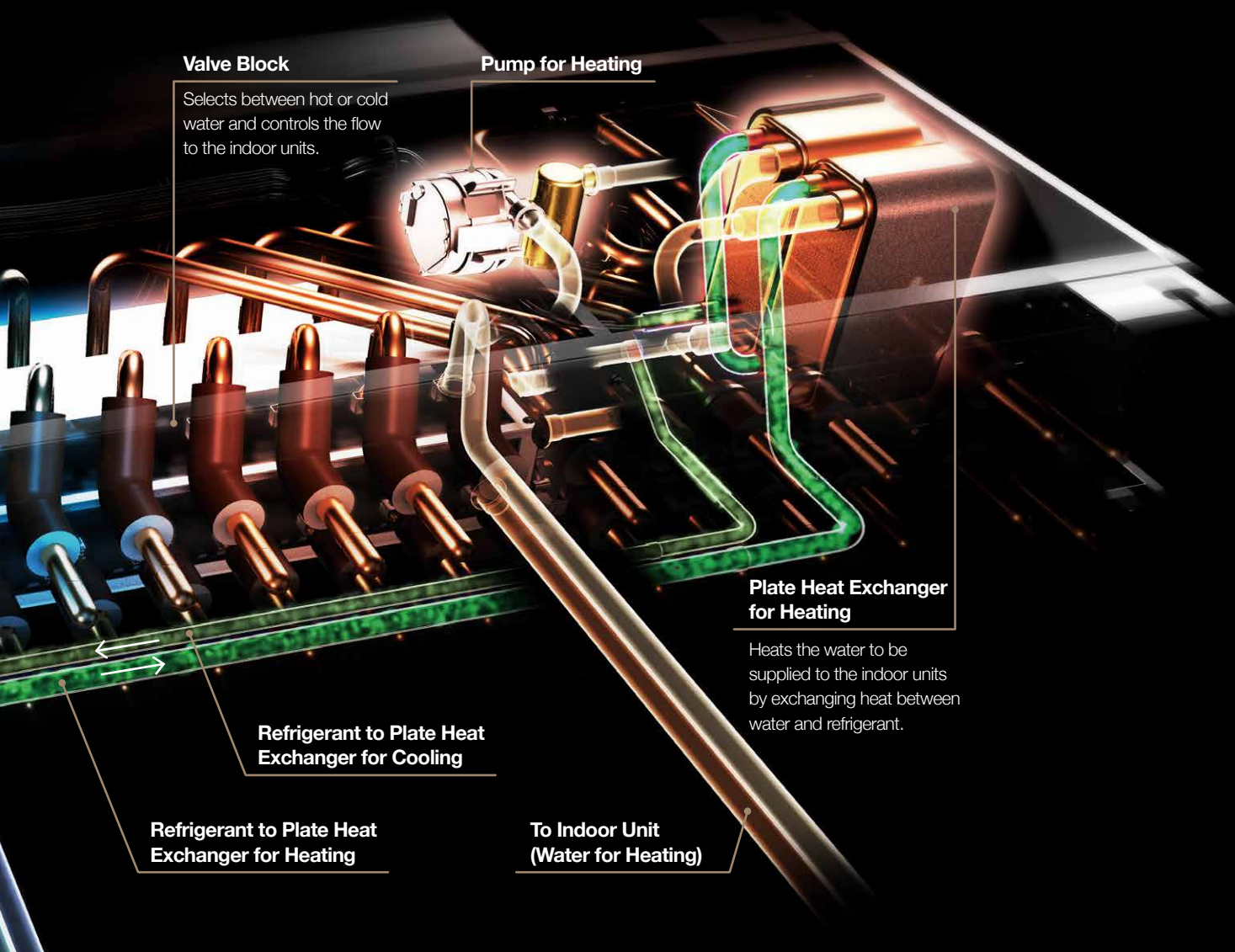
- Saving space and less installation due to capacity increased when a 45kW system is required
- Fewer modules require less foot print

Hydro Branch Controller

Shown during simultaneous heating and cooling operation.



Our unique hybrid air conditioning system with a HBC that exchanges heat between water and refrigerant



S Module
(22.4-33.5kW)



L Module
(40-50kW)



XL Module
(56kW)

A Line-Up of Outdoor Units up to 56kW

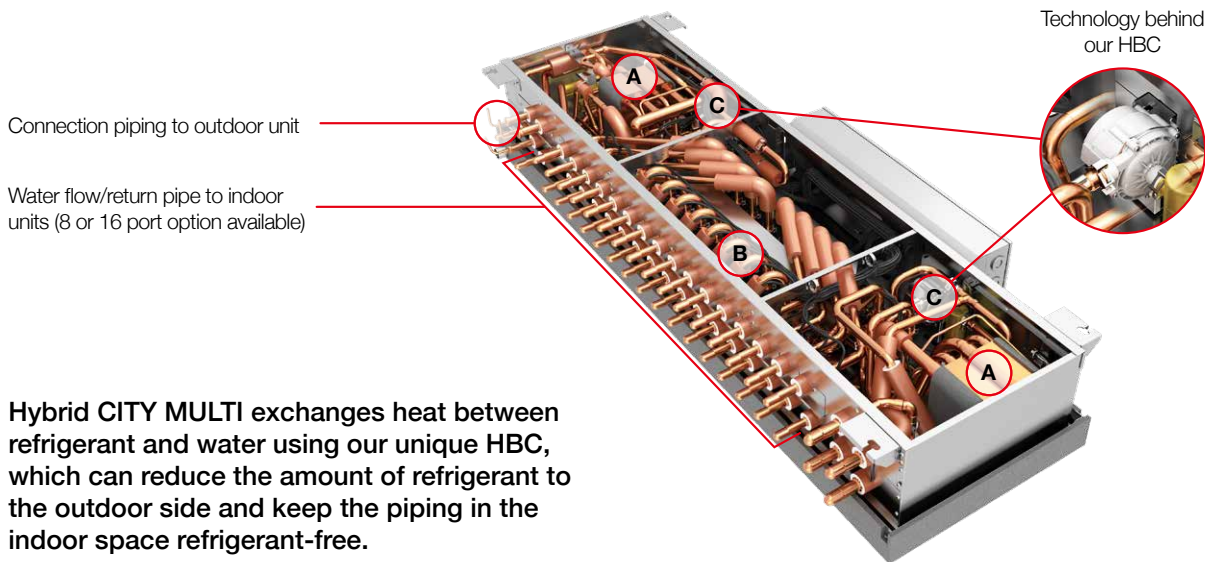
Units with R32 refrigerant have been added to our line-up.

This line-up accommodates a wider range of applications.

The HBC Plays a Key Part of HVRF

Unique Technology

Hybrid CITY MULTI exchanges heat between refrigerant and water using our unique HBC, which can reduce the amount of refrigerant in the outdoor unit and keep the piping in the indoor space refrigerant-free.



Hybrid CITY MULTI exchanges heat between refrigerant and water using our unique HBC, which can reduce the amount of refrigerant to the outdoor side and keep the piping in the indoor space refrigerant-free.

*Please refer to installation manual according to HBC installation.

A

Plate Heat Exchanger

HBC has two plate heat exchangers inside. These components transfer the energy from the refrigerant circuit to the closed water loop to the indoor units. These plate heat exchangers can operate interdependently in heating or cooling as required for simultaneous operation.

B

Valve Block

The valve block has 2 features; firstly it has the choice of selecting between the two flow headers (including selecting heating or cooling) and secondly it controls the flow of water to the indoor units for the capacity required.

C

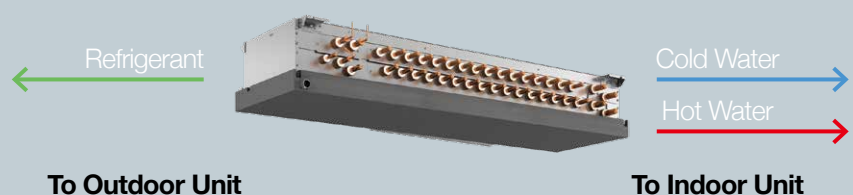
Pump

The plate heat exchangers have a DC inverter driven pump each. These pumps circulate the water in the closed water loop system to the indoor units. The flow rate from the pumps is controlled by the Valve Block.

Refrigerant Circulation

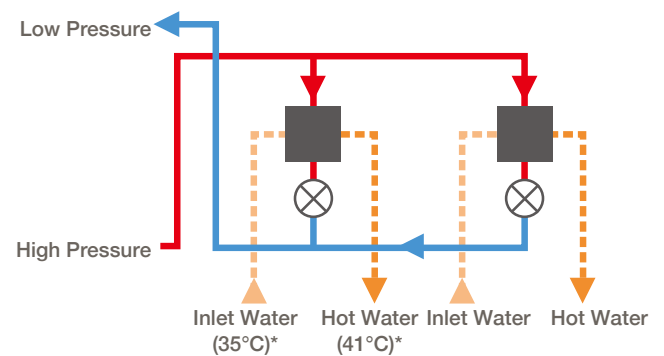
Refrigerant is circulated between the HBC and outdoor unit.

The Hybrid City Multi uses water to indoor unit side.



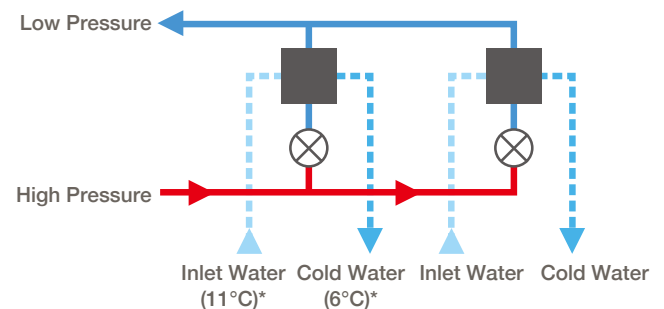
Heating Operation

During the heating operation, the closed water loop is heated by the energy exchange from high pressure, high temperature refrigerant gas from the condenser.



Cooling Operation

During the cooling operation, the closed water loop is cooled by the energy exchange from low pressure, low temperature refrigerant from the condenser through the LEV metering device.



Simultaneous Heating and Cooling Operation

First, water from indoor unit is heated by heat exchange with high-temperature, high-pressure refrigerant gas inside the plate heat exchanger for heating operation.

Liquid refrigerant is changed to low-pressure liquid refrigerant after it passes through the expansion valve, becoming a low temperature, low pressure refrigerant gas. Then, heat exchange is performed among refrigerant and water to chill the water. The chilled water is then utilised, by the indoor units in cooling mode.

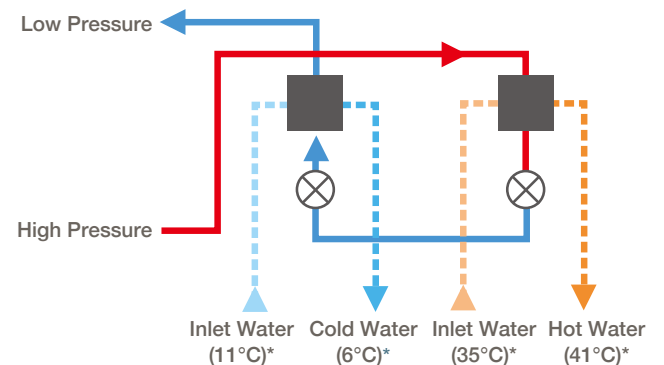


Plate Heat Exchanger
 Expansion Valve
 Refrigerant
 Water

*Water-temperatures provided are referential values. Water temperatures vary with operating conditions.

Award History

Since its release in 2012, The Hybrid VRF system has received several awards. The HVRF models have been used in hotels, business offices, government offices and for various other applications.



The RAC
Cooling Industry Awards 2016
Air conditioning Product of the Year

*Awards received in the UK.



The ACR
News Awards 2017
Air conditioning Product of the Year

*Awards received in the UK.



Where can Hybrid VRF be Applied

Hotels

Hotel applications tend to prioritise customer comfort, installation and running costs in the design process while adhering to latest legislation requirements. Hybrid VRF can help reduce the total cost of a system and ongoing maintenance of the leak detection system by removing the need for it in hotel rooms.



Offices

Modern buildings and offices require air conditioning systems that provide high levels of comfort as efficiently as possible. Hybrid VRF technology delivers on both fronts while also allowing for flexibility when it comes to layout changes. Layout changes can simply be made by isolating the fan coils at the Hybrid Branch Controller.

Mixed Use Buildings

As we look to satisfy increasing demand for both residential and commercial properties in CBD areas, more buildings are developed for mixed-use, often combining retail, office, leisure and living space. Hybrid VRF provides a flexible solution with the ability to use both water cooled and air cooled options as well as an extensive range of controls to ensure optimum performance.

Hospitals

The system has no refrigerant in the pipework between indoor unit and the Hybrid Branch Controller and provides milder off coil temperature as it uses water as a medium of heat exchange at the indoor unit.

Education

Providing comfort through stable temperatures, removal of refrigerant from occupied spaces and reduced noise makes this product more than suitable for schools, colleges and universities.



Case Studies



Hybrid CITY MULTI selected for a Metropolitan Fire Brigade station in Melbourne's west eliminates need for refrigerant leak detection equipment.

Project Information

Application
Laverton Fire Station

Location
Laverton, VIC

The Team

Client
Metropolitan Fire Brigade

HVAC Contractor
Auscool Air Conditioning & Mechanical Services Pty Ltd

The Challenge

A requirement for the new building was to have the most up-to-date air conditioning system that would serve and provide comfort to all areas while maintaining efficiency and providing flexibility. The system was also required to be networked to enable monitoring of air conditioning by a centralised controller integrated to a building management system (BMS), and to satisfy building standards.

The design would need to meet the refrigerant volume concentration requirements as set out in AS/NZS 5149 for the room areas.

The Solution

The project combined Mitsubishi Electric Hybrid CITY MULTI and standard CITY MULTI VRF systems. Both

systems integrated seamlessly with the BMS and controls systems.

As the overnight accommodation rooms are small, they would be subject to AS/NZS 5149 for refrigerant volume concentration. To eliminate the need for refrigerant leak detection equipment and ongoing monitoring, the Hybrid CITY MULTI system was chosen for the accommodation rooms.

The system uses refrigerant only between the outdoor unit and the Hydro BC Controller (HBC), and water between the HBC Controller and the indoor units.

Both the Hybrid CITY MULTI and standard CITY MULTI VRF systems in the project provide simultaneous heating and cooling and uses heat recovery between the heating and cooling units to increase system efficiency by reducing the input energy of the system.

Commissioned: 2019

Unit Information



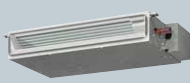
Outdoor Units

PURY-P350YLM-A x 1
PURY-P200YLM-A x 1
PUHZ-RP71VHA5R1-A x 1
MUZ-GE50VAD-A1 x 2



Indoor Units

PEFY-WP20VMA-E x 8
PEFY-P125VMA-E x 1
PEFY-P100VMA-E x 1
PEFY-P63VMA-E x 2
PEFY-P50VMA-E x 1

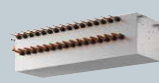


PEFY-P32VMA-E x 1
PKA-RP71KAL.TH x 1
MSZ-GE50VAD-A1 x 2



HBC

CMB-WP108V-GA1 x 1



BC

CMB-P108V-GA1 x 1



Controllers

AE-200E x 1
PAR-31MAAE-J x 15
PAR-32MAA-J x 2

Case Studies



MannaCare
WIDER CHOICES FOR OLDER PEOPLE



Hybrid CITY MULTI solution allowed for staged installation and compliance with refrigerant concentration regulations in AS/NZS 5149 without requiring a refrigerant leak detection system.

Project Information

Application

MannaCare – aged care facility

Location

Doncaster, VIC

The Team

Client

MannaCare

HVAC Contractor

Boyle & Grigg Airconditioning

The Challenge

MannaCare is an aged care facility located in Doncaster, a suburb to the north of Melbourne. The facility has been in operation since circa 1984 providing 90 rooms for elderly patients care.

Through 2018-2019 a refurbishment of the existing aged care site was carried out to upgrade and modernise the facilities for residents, staff and visitors. This included mechanical system upgrades and air conditioning systems to serve new accommodation rooms.

As the facility was to remain operational during the construction work, the air conditioning was required to be installed in stages. However, the real challenge was in meeting Australia's refrigerant concentration standards (AS/NZS 5149), given the small size of the accommodation rooms.

The Solution

Mitsubishi Electric Hybrid CITY MULTI system offered a versatile solution and allowed for staged installation that corresponded to the construction program. The system uses refrigerant only between the outdoor unit and the Hydro BC Controller (HBC), and water between the HBC Controller and the indoor units.

Using the Hybrid CITY MULTI system also allowed the air conditioning system to comply with the refrigerant concentration regulation in AS/NZS 5149 without requiring a refrigerant leak detection system. Low static ceiling concealed units with 200mm height for low ceilings, met the client's requirement for discreet system.

The Hybrid CITY MULTI provided simultaneous heating and cooling (R2) and uses heat recovery between the heating and cooling units to increase system efficiency by reducing the input energy of the system.

Commissioned: 2019

Unit Information



Outdoor Units

PURY-P300YLM-A x 1
PURY-P350YLM-A x 1
PURY-P450YLM-A x 2
PURY-P650YSLM-A x 1
MXZ-8C140VAMD-A x 1

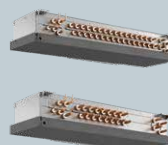


Indoor Units

PEFY-P100VMH-E2.TH x 1
PEFY-P140VMH-E2.TH x 1
PEFY-P200VMHS-E x 3
PEFY-WP25VMS1-E.TH x 15
PEFY-WP32VMS1-E x 10

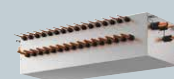


PEFY-WP40VMS1-E x 6
PLFY-WP32VBM-E x 1
PLFY-WP40VBM-E x 1
SLZ-KA35VAQR2.TH x 3



HBC

CMB-WP1016V-GA1 x 1
CMB-WP108V-GA1 x 3



BC

CMB-P1010V-GA1 x 1



Controllers

AE-200E x 1
PAC-SE55RA-E x 38
PAR-33MAA-J x 41



Hybrid CITY MULTI selected for Hotel Il Sereno in Italy, utilises lake water to create the perfect conditions for guests through heating, cooling and the production of hot water.

Project Information

| | |
|-----------------|------------------|
| Application | Location |
| Hotel Il Sereno | Como Lake, Italy |

The Challenge

The scope for the project was to create the perfect conditions to give guests the sensation of being cocooned in an oasis of tranquility, where the opportunity to enjoy the spectacular landscape is made all the more special by every conceivable comfort.

Every space in the property was designed to offer a privileged window onto the lake and the mountains, and as a consequence, the use of predominantly natural materials – such as wood, stone, copper and textiles – was a logical choice. This pursuit of the perfect conditions for guests is also reflected in a choice of utility systems combining technological innovation and environmental sustainability with comfort.

This is why Mitsubishi Electric was chosen as a supplier, which responded to the primary energy requirements of the facility (heating, cooling and domestic hot water production) with its state of the art air conditioning systems.

Hybrid CITY MULTI was specifically chosen for the hotel.

The Solution

To provide primary heating and cooling functionality for the utilities situated on floors 1 to 4, a total of six Hybrid CITY MULTI systems have been installed utilising the lake water as a heat source.

Lake water is drawn by a pumping station installed 15 meters below the surface of the lake. The six Hybrid CITY MULTI systems have a combined cooling capacity of 240kW and 270kW of heating capacity. Via six Hydro BC Controllers, these systems feed a total of 79 indoor units of a variety of different types, from concealed floor standing indoor units (used predominantly in bedrooms), to medium static pressure ducted indoor units and 4-way flow ceiling cassette indoor units. The Hydro BC Controller have been fitted in the ceiling of a technical room on the second floor.

Two Ground Source Hot Water Heat Pump units have been installed to supply the hotel with domestic hot water. With a combined thermal capacity of 120kW, these two units produce hot water of up to 65°C by exchanging the thermal power of the array via the heating coil of a 2,000 litre capacity domestic hot water boiler.

Commissioned: 2020

Unit Information



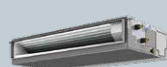
Outdoor Units
PQRY-P x 6



HBC
16 port x 6



Indoor Units x 79
4-Way Flow Ceiling
Cassette Type



Ceiling Concealed Middle
Static Type



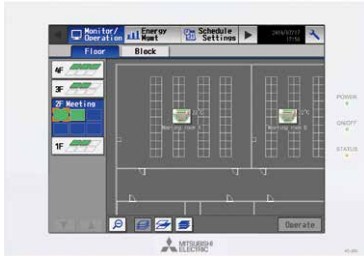
Floor Standing
Concealed Type



Controllers
AE-200E x 3
LoriWorks

Controller Features

System Controller



AE-200E

AE-200E

The AE-200E is a sophisticated, 10.4" LCD colour touch screen controller to provide you the ultimate system management tool. The AE-200E's large, back-lit display makes programming a breeze, giving you control of temperature, fan speed and airflow options at the touch of the screen. With the added benefit of comprehensive energy consumption monitoring and comparisons with the previous year's power consumption. Monitor and control 50 indoor units, control up to 200 units by using three AE-50E/EW-50E expansion controllers. One of the most advanced energy monitoring centralised controllers available. The AE-200E allows complete control from one location.



EW-50E

EW-50E

This model can control up to 50 indoor units from a web browser.



Procon

Procon

Designed to connect individual indoor units to a third party BMS. The Procon continually reads data from the system making the latest information available for third party BMS while changing configuration when necessary allowing for connection to Modbus RTU or BACnet MS/TP, selectable by dip switch setting.

Function of System Controller

The air conditioners in each group can be turned on and off, and their modes can be changed. The weekly timer allows them to be turned on automatically before work starts, and off after closing time.

- Status monitoring
- Scheduling
- Energy management data
- Language selection
- Operating On/Off, Mode, Temperature setting, Fan speed and Air-flow direction

Local Remote Controller

Wired Remote Controller



PAR-40MAA

7 Day Wired Controller

PAR-40MAA

A large easy to read display with backlit LCD.

Features:

- Weekly timer – 8 patterns up to 7 days

- Auto-off timer
- Temperature range restriction – Limit minimum and maximum to prevent over heating/cooling
- Operation lock
- Multi Language (EN/FR/DE/ES/IT/PT/SV/RU)



PAR-U02MEDA

ME Remote Controller

PAR-U02MEDA

Capable of controlling up to 16 indoor units simultaneously.

Features:

- Four built-in sensors (humidity, temperature, occupancy and brightness) for maximum comfort and increased energy savings



PAC-YT52CRA

Simple Controller

PAC-YT52CRA

The Simple Controller has the ability to sense the room ambient temperature via the inbuilt thermostat, sensing the actual space temperature where the controller is installed.

Features:

- Backlit LCD
- Mode
- Room Temperature
- Fan Speed



PAR-CT01MAA-SB



PAR-CT01MAA-PB

Bluetooth* Touch Screen Controller

PAR-CT01MAA-S/SB/PB

A full colour 3.5" touch LCD display suitable for both residential and commercial applications. Remote controller can communicate with smartphone or tablet device via Bluetooth Low Energy (BLE).

Features:

- Logo/photo image customisation
- White or Premium Black finishes
- 180 colour patterns available
- Customisable display
- Multilingual support: The smartphone app can be displayed in the language that the user's smartphone is set to

*Available for PAR-CT01MAA-SB and PAR-CT01MAA-PB.

Function of Local Remote Controller

- Operating On/Off, Mode, Temperature setting, Fan speed and Airflow direction
- Status monitoring
- Scheduling
- Language selection
- Bluetooth connection

A suitable remote controller can be selected to control the air conditioners in each room according to each use situation.

Wireless Remote Controller

PAR-FL32MA / PAR-SL100A-E (Transmitter)

| Compatibility Table | Receiver | Transmitter |
|---------------------|-------------|--------------|
| PEFY-WP VMS1 | PAR-FA32MA | PAR-FL32MA |
| PEFY-W VMS | | |
| PEFY-WP VMA | | |
| PEFY-W VMA(L)(2) | | |
| PFFY-WP VLRMM | | |
| PFFY-W VCM | PAR-SE9FA-E | PAR-SL100A-E |
| PLFY-WL VEM | | |
| PLFY-WL VFM | | |
| PKFY-WL VLM | Built-in | |



FL32



SL100

Control your Comfort

Making the most out of your air conditioner all starts with the controls, helping you to create comfort levels that suit your needs. The availability of a wide variety of controls by Mitsubishi Electric Australia, not only provides you with a selection to personalise your air conditioning system, but also increases flexibility in the way you use your unit.

Wi-Fi
CONTROL



Wi-Fi Control*¹

Unlock the door to smarter heating and cooling systems through your VRF systems, for total controlled comfort. This innovative technology connects your Mitsubishi Electric air conditioner to your smartphone, tablet or online account, giving you the freedom to fully control each unit on-the-go via an internet connection from anywhere in the world.

Features:

- Adjusting set temperature
- Changing mode
- Fan speed
- Auto-Off
- Zone Control

Voice Control

Mitsubishi Electric air conditioning systems connected with Wi-Fi Control*¹ are now Amazon Alexa*² and Google Assistant*³ enabled. This means you can enjoy hands-free control.

Develop Operating Rules

Tailor your system to always meet your needs and unlock the full potential of your air conditioner. Program your system to automatically turn On/Off at specific times, change settings, and develop temperature rules to ensure superior comfort day after day.

Control Multiple Units

Customise the settings of each air conditioner. Purchase multiple adaptors to manage all air conditioners independently on the same account, to ensure complete control over your system. The result is a tailored system to your needs.

*¹ Optional Wi-Fi adapter required per unit.

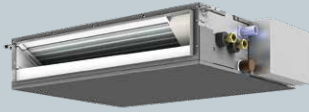
Requires an internet connection and the App downloaded on your smart phone or tablet with the latest operation system available.

*² To use Amazon Alexa to control your air conditioner you will need an Amazon Alexa Echo device.

*³ To use Google Assistant to control your air conditioner you will need a Google Home Smart speaker.



Line-up of Indoor Units



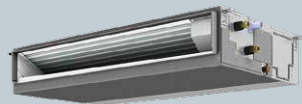
PEFY-WP VMS1-E

Ceiling Concealed Low Static Pressure Type

PEFY-WP VMS1-E | PEFY-W VMS-A

The thin design with a body height of only 200mm enables installation in a narrow space in the ceiling. Features low noise operation and compact body with an external static pressure of up to 50 Pa.

- ✓ Static pressure up to 50 Pa
- ✓ Air flow rate, 3 stages
- ✓ Drain pump (standard) up to 550mm
- ✓ Low noise
- ✓ Height, 200mm



PEFY-WP VMA-E

Ceiling Concealed Medium Static Pressure Type

PEFY-WP VMA-E | PEFY-W VMA(L)-A | PEFY-W VMA2-A

Thin design of a body height of 250mm. The rear or bottom air inlet can be selected. The drain pump is optionally selectable.

- ✓ Static pressure up to 150 Pa
- ✓ Air flow rate, 3 stages
- ✓ Drain pump (standard) up to 700mm
- ✓ Height, 250mm
- ✓ Rear or bottom inlet



PLFY-WL VEM-E

Ceiling Cassette 4-Way Air Flow Type

PLFY-WL VEM-E

The airflow pattern can be selected from 4, 3, or 2 directions. With the 3D i-See Sensor, 'sensible temperature control' is available, contributing to improve comfort/energy efficiency.

- ✓ 3D i-See Sensor
- ✓ Air flow rate, 4 types
- ✓ Decoration panel
- ✓ Drain pump



PLFY-WL VFM-E

Ceiling Cassette 4-Way Air Flow Type

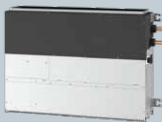
PLFY-WL VFM-E

208 x 570 x 570 compact design. Fits perfectly with 2 foot by 2 foot (600mm x 600mm) ceiling systems. With the 3D i-See Sensor, smart control based on the number of people in the room is available, contributing to improve comfort/energy efficiency.

- ✓ 3D i-See Sensor
- ✓ Air flow rate, 3 types
- ✓ Decoration panel
- ✓ Drain pump



PFFY-WP VLRMM-E



PFFY-W VCM-A

Floor Standing Concealed Type

PFFY-WP VLRMM-E | PFFY-W VCM-A

Compact unit for easy air conditioning in perimeter zone, with a maximum external static pressure 60 Pa.

- ✓ Static pressure up to 60 Pa
- ✓ Rear or bottom inlet (W model only)
- ✓ Air flow rate, 3 stages
- ✓ Depth, 200mm (W model only)



PKFY-WL VLM-E



PKFY-WL VKM-E












Wall Mounted Type

PKFY-WL VLM-E | PKFY-WL VKM-E

Stylish compact design that operates quietly.

- ✓ 4 fan speed settings
- ✓ Automatic vane control
- ✓ Quiet operation
- ✓ Dual set point auto mode



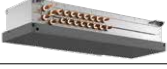
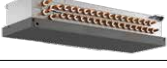
Line-up of Indoor Units

| Type | Model Name | With Flow Control Valve | Model | 10 | 15 | 20 | 25 | 32 | 40 | 50 | 63 | 71 | 80 | 100 | 125 |
|---|-----------------|-------------------------|---|----|----|----|----|----|----|----|----|----|----|-----|-----|
| Ceiling Concealed Low Static Pressure Type | PEFY-WP VMS1-E | |  | ● | ● | ● | ● | ● | ● | ● | | | | | |
| | PEFY-W VMS-A | ● |  | ● | ● | ● | ● | ● | ● | ● | | | | | |
| Ceiling Concealed Medium Static Pressure Type | PEFY-WP VMA-E | |  | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | PEFY-W VMA(L)-A | ● |  | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | PEFY-W VMA2-A | ● |  | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 4-way Airflow Type | PLFY-WL VEM-E | |  | | | ● | ● | ● | ● | ● | ● | | ● | ● | ● |
| 2 x 2 Cassette Type | PLFY-WL VFM-E | |  | ● | ● | ● | ● | ● | ● | | | | | | |
| Floor Standing Concealed Type | PFFY-WP VLRMM-E | |  | | | ● | ● | ● | ● | ● | | | | | |
| | PFFY-W VCM-A | ● |  | | | ● | ● | ● | ● | ● | | | | | |
| Wall Mounted Type | PKFY-WL VLM-E | |  | ● | ● | ● | ● | ● | ● | | | | | | |
| | PKFY-WL VKM-E | |  | | | | | | | ● | ● | | ● | | |







*This picture is WL10-25 model.







| Compatibility with Indoor Unit | | |
|--------------------------------|----|---------------|
| Indoor Unit Combination | | Compatibility |
| WP | W | Not available |
| WP | WL | Available |
| W | WL | Available* |



*When using the W-type and the WL-type indoor units in the same system, install the Valve kit (PAC-SK04VK-E) on all WL-type indoor units.

| Line-up of HBC | | | | |
|----------------|----------------|---|---------|----------|
| | Model Name | Model | 8 Ports | 16 Ports |
| Main-HBC | CMB-WM108V-AA |  | ● | |
| | CMB-WM1016V-AA |  | | ● |
| Sub-HBC | CMB-WM108V-AB |  | ● | |
| | CMB-WM1016V-AB |  | | ● |

Wide Line-up of Outdoor Units

| System | Model Name R32 | | Model | 22.4kW | 28kW | 33.5kW | 40kW | 45kW | 50kW | 56kW |
|------------|-----------------|----------------|---|--------|------|--------|------|------|------|------|
| | | | | M200 | M250 | M300 | M350 | M400 | M450 | M500 |
| Air Cooled | Standard | PURY-M YNW-A1 |  Size S  Size L  Size XL | S | S | S | L | L | L | XL |
| | High Efficiency | PURY-EM YNW-A1 |  Size S  Size L  Size XL | S | S | S | L | L | L | XL |

| System | Model Name R410A | | Model | 22.4kW | 28kW | 33.5kW | 40kW | 45kW | 50kW | 56kW |
|------------|------------------|----------------|--|--------|------|--------|------|------|------|------|
| | | | | P200 | P250 | P300 | P350 | P400 | P450 | P500 |
| Air Cooled | Standard | PURY-P YNW-A1 |  Size S  Size L  Size XL | S | S | S | L | L | L | XL |
| | High Efficiency | PURY-EP YNW-A1 |  Size S  Size L  Size XL | S | S | S | L | L | L | XL |

| System | Model Name R410A | | Model | 22.4kW | 28kW | 33.5kW | 40kW | 45kW | 50kW | 56kW |
|--------------|------------------|--|---|--------|------|--------|------|------|------|------|
| | | | | P200 | P250 | P300 | P350 | P400 | P450 | P500 |
| Water Cooled | PQRY-P YLM-A1 | |  Size S  Size L | S | S | S | L | L | L | L |

Product Specifications

Indoor Units



| Ceiling Concealed Low Static Pressure Type (without Flow Control Valve) | | | | | | | | | | | | |
|---|-------------------------|--------------------------------------|--|--------------------------------|--------------------------|--------------------------------|--------------------------|--------------------------------|--------------------------|--------------------------------|-----------------|--|
| Indoor Unit | | | PEFY-WP10VMS1-E | | PEFY-WP15VMS1-E | | PEFY-WP20VMS1-E | | PEFY-WP25VMS1-E | | | |
| Power Source | | | 1-phase 220-230-240 V 50/60 Hz | | | | | | | | | |
| Cooling Capacity [Nominal]* ¹ | | kW | 1.2 | | 1.7 | | 2.2 | | 2.8 | | | |
| | | Power Input* ² | kW | | 0.030 | | 0.050 | | 0.051 | | 0.060 | |
| | | Current Input* ² | A | | 0.21 | | 0.44 | | 0.49 | | 0.51 | |
| Heating Capacity [Nominal]* ³ | | kW | 1.4 | | 1.9 | | 2.5 | | 3.2 | | | |
| | | Power Input* ² | kW | | 0.030 | | 0.030 | | 0.031 | | 0.040 | |
| | | Current Input* ² | A | | 0.21 | | 0.33 | | 0.38 | | 0.40 | |
| External Finish | | | Galvanized steel plate | | Galvanized steel plate | | Galvanized steel plate | | Galvanized steel plate | | | |
| External Dimension H x W x D | | mm | 200 x 790 x 700 | | 200 x 790 x 700 | | 200 x 790 x 700 | | 200 x 790 x 700 | | | |
| Net Weight | | kg | 19 | | 19 | | 20 | | 20 | | | |
| Heat Exchanger | | | Cross fin (Aluminum fin and copper tube) | | | | | | | | | |
| | | Water Volume | L | 0.4 | | 0.7 | | 0.9 | | 0.9 | | |
| Fan | | Type x Quantity | | Sirocco fan x 2 | | Sirocco fan x 2 | | Sirocco fan x 2 | | Sirocco fan x 2 | | |
| | | External Static Press.* ⁴ | Pa | <5> - 15 - <35> - <50> | | <5> - 15 - <35> - <50> | | <5> - 15 - <35> - <50> | | <5> - 15 - <35> - <50> | | |
| | | Motor Type | | DC motor | | DC motor | | DC motor | | DC motor | | |
| | | Motor Output | kW | 0.096 | | 0.096 | | 0.096 | | 0.096 | | |
| | | Driving Mechanism | | Direct-driven by motor | | Direct-driven by motor | | Direct-driven by motor | | Direct-driven by motor | | |
| | | Air Flow Rate | | (Low-Mid-High) | | (Low-Mid-High) | | (Low-Mid-High) | | (Low-Mid-High) | | |
| | | | | m ³ /min | 4.0 - 4.5 - 5.0 | | 5.0 - 6.0 - 7.0 | | 5.5 - 6.5 - 8.0 | | 5.5 - 7.0 - 9.0 | |
| | | L/S | 67 - 75 - 83 | | 83 - 100 - 117 | | 92 - 108 - 133 | | 92 - 117 - 150 | | | |
| Sound Pressure Level (Measured in Anechoic Room)* ² | | | dB <A> | (Low-Mid-High) 20 - 23 - 25 | | (Low-Mid-High) 22 - 24 - 28 | | (Low-Mid-High) 23 - 25 - 29 | | (Low-Mid-High) 23 - 26 - 30 | | |
| Insulation Material | | | EPS, Polyethylene foam, Urethane foam | | | | | | | | | |
| Air Filter | | | PP honeycomb fabric | | PP honeycomb fabric | | PP honeycomb fabric | | PP honeycomb fabric | | | |
| Protection Device | | | Fuse | | Fuse | | Fuse | | Fuse | | | |
| Connectable HBC Controller | | | CMB-WM-V-AA, CMB-WM-V-AB | | CMB-WM-V-AA, CMB-WM-V-AB | | CMB-WM-V-AA, CMB-WM-V-AB | | CMB-WM-V-AA, CMB-WM-V-AB | | | |
| Water Piping Diameter* ^{4,5,6} | Inlet | in. | Rc 3/4 screw | | Rc 3/4 screw | | Rc 3/4 screw | | Rc 3/4 screw | | | |
| | Outlet | in. | Rc 3/4 screw | | Rc 3/4 screw | | Rc 3/4 screw | | Rc 3/4 screw | | | |
| Field Drain Pipe Size | | | mm (in.) | O.D.32 (1-1/4) | | O.D.32 (1-1/4) | | O.D.32 (1-1/4) | | O.D.32 (1-1/4) | | |
| Standard Attachment | Accessory | | Insulation pipe for water pipe, washer, drain hose, tie band | | | | | | | | | |
| Optional Parts | Control Box Replace Kit | | PAC-KE70HS-E | | PAC-KE70HS-E | | PAC-KE70HS-E | | PAC-KE70HS-E | | | |

| Indoor Unit | | | PEFY-WP32VMS1-E | PEFY-WP40VMS1-E | PEFY-WP50VMS1-E |
|--|--------------------------------------|-----------------|--|--------------------------|--------------------------|
| Power Source | | | 1-phase 220-230-240 V 50/60 Hz | | |
| Cooling Capacity [Nominal]* ¹ | | kW | 3.6 | 4.5 | 5.6 |
| | Power Input* ² | kW | 0.071 | 0.090 | 0.090 |
| | Current Input* ² | A | 0.61 | 0.73 | 0.77 |
| Heating Capacity [Nominal]* ³ | | kW | 4.0 | 5.0 | 6.3 |
| | Power Input* ² | kW | 0.051 | 0.070 | 0.070 |
| | Current Input* ² | A | 0.50 | 0.62 | 0.66 |
| External Finish | | | Galvanized steel plate | Galvanized steel plate | Galvanized steel plate |
| External Dimension H x W x D | | mm | 200 x 990 x 700 | 200 x 990 x 700 | 200 x 1,190 x 700 |
| Net Weight | | kg | 25 | 25 | 27 |
| Heat Exchanger | | | Cross fin (Aluminum fin and copper tube) | | |
| Fan | Water Volume | L | 1.0 | 1.0 | 1.7 |
| | Type x Quantity | | Sirocco fan x 3 | Sirocco fan x 3 | Sirocco fan x 4 |
| | External Static Press.* ⁴ | Pa | <5> - 15 - <35> - <50> | <5> - 15 - <35> - <50> | <5> - 15 - <35> - <50> |
| | Motor Type | | DC motor | DC motor | DC motor |
| | Motor Output | kW | 0.096 | 0.096 | 0.096 |
| | Driving Mechanism | | Direct-driven by motor | Direct-driven by motor | Direct-driven by motor |
| | Air Flow Rate | | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) |
| | | m³/min | 8.0 - 9.0 - 11.0 | 9.5 - 11.0 - 13.0 | 12.0 - 14.0 - 16.5 |
| L/S | | 133 - 150 - 183 | 158 - 183 - 217 | 200 - 233 - 275 | |
| Sound Pressure Level (Measured in Anechoic Room)* ² | | | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) |
| | | dB <A> | 28 - 30 - 33 | 30 - 32 - 35 | 30 - 33 - 36 |
| Insulation Material | | | EPS, Polyethylene foam, Urethane foam | | |
| Air Filter | | | PP honeycomb fabric | PP honeycomb fabric | PP honeycomb fabric |
| Protection Device | | | Fuse | Fuse | Fuse |
| Connectable HBC Controller | | | CMB-WM-V-AA, CMB-WM-V-AB | CMB-WM-V-AA, CMB-WM-V-AB | CMB-WM-V-AA, CMB-WM-V-AB |
| Water Piping Diameter * ^{5,6} | Inlet | in. | Rc 3/4 screw | Rc 3/4 screw | Rc 3/4 screw |
| | Outlet | in. | Rc 3/4 screw | Rc 3/4 screw | Rc 3/4 screw |
| Field Drain Pipe Size | | mm (in.) | O.D.32 (1-1/4) | O.D.32 (1-1/4) | O.D.32 (1-1/4) |
| Standard Attachment | | Accessory | Insulation pipe for water pipe, washer, drain hose, tie band | | |
| Optional Parts | Control Box Replace Kit | | PAC-KE70HS-E | PAC-KE70HS-E | PAC-KE70HS-E |

Notes:

*1 Nominal cooling conditions
Indoor: 27°CDB./19°CWB. Outdoor: 35°CDB.
Pipe length: 7.5 m, Level difference: 0 m.

*2 The values are measured at the factory setting of external static pressure.

*3 Nominal heating conditions
Indoor: 20°CDB., Outdoor: 7°CDB./6°CWB.
Pipe length: 7.5 m, Level difference: 0 m.

*4 The factory setting of external static pressure is shown without < > .
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.

*5 Be sure to install a valve on the water outlet.

*6 Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.



| Ceiling Concealed Low Static Pressure Type (with Flow Control Valve) | | | | | | |
|--|--------------------------------------|---------------------|---|--------------------------------|--------------------------------|--------------------------------|
| Indoor Unit | | | PEFY-W10VMS-A | PEFY-W15VMS-A | PEFY-W20VMS-A | PEFY-W25VMS-A |
| Power Source | | | 1-phase 220-230-240 V 50/60 Hz | | | |
| Cooling Capacity | [Nominal] ^{*1} | kW | 1.2 | 1.7 | 2.2 | 2.8 |
| | Power Input ^{*2} | kW | 0.020 | 0.025 | 0.030 | 0.035 |
| | Current Input ^{*2} | A | 0.16 | 0.24 | 0.26 | 0.30 |
| Heating Capacity | [Nominal] ^{*3} | kW | 1.4 | 1.9 | 2.5 | 3.2 |
| | Power Input ^{*2} | kW | 0.020 | 0.025 | 0.030 | 0.035 |
| | Current Input ^{*2} | A | 0.16 | 0.24 | 0.26 | 0.30 |
| External Finish | | | Galvanized steel plate | Galvanized steel plate | Galvanized steel plate | Galvanized steel plate |
| External Dimension H x W x D | | | 200 x 790 x 700 | 200 x 790 x 700 | 200 x 790 x 700 | 200 x 790 x 700 |
| Net Weight | | | 19 | 19 | 19 | 19 |
| Heat Exchanger | | | Cross fin (Aluminum fin and copper tube) | | | |
| Fan | Water Volume | L | 0.7 | 0.7 | 0.9 | 0.9 |
| | Type x Quantity | | Sirocco fan x 2 | Sirocco fan x 2 | Sirocco fan x 2 | Sirocco fan x 2 |
| | External Static Press. ^{*4} | Pa | <5> - 15 - <35> - <50> | <5> - 15 - <35> - <50> | <5> - 15 - <35> - <50> | <5> - 15 - <35> - <50> |
| | Motor Type | | DC motor | DC motor | DC motor | DC motor |
| | Motor Output | kW | 0.096 | 0.096 | 0.096 | 0.096 |
| | Driving Mechanism | | Direct-driven by motor | Direct-driven by motor | Direct-driven by motor | Direct-driven by motor |
| | Air Flow Rate | | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) |
| | | m ³ /min | 4.0 - 4.5 - 5.0 | 5.0 - 5.5 - 7.0 | 5.5 - 6.5 - 7.5 | 5.5 - 6.5 - 8.5 |
| | | L/S | 67 - 75 - 83 | 83 - 92 - 117 | 92 - 108 - 125 | 92 - 108 - 142 |
| Sound Pressure Level (Measured in Anechoic Room) ^{*2} | | dB <A> | (Low-Mid-High) 20 - 22 - 23 | (Low-Mid-High) 22 - 24 - 25 | (Low-Mid-High) 23 - 24 - 26 | (Low-Mid-High) 23 - 24 - 28 |
| Insulation Material | | | Polystyrene foam, Polyethylene foam, Urethane foam | | | |
| Air Filter | | | PP honeycomb fabric | PP honeycomb fabric | PP honeycomb fabric | PP honeycomb fabric |
| Protection Device | | | Fuse | Fuse | Fuse | Fuse |
| Connectable Outdoor Unit/HBC Controller/Hydro Unit | | | Hybrid City Multi/CMB-WM-V-AA, CMB-WM-V-AB/CMH-WM-V-A | | | |
| Water Piping Diameter ^{*5,6} | Inlet | mm I.D | 20 | 20 | 20 | 20 |
| | Outlet | mm I.D | 20 | 20 | 20 | 20 |
| Field Drain Pipe Size | | mm (in.) | O.D.32 (1-1/4) | O.D.32 (1-1/4) | O.D.32 (1-1/4) | O.D.32 (1-1/4) |
| Standard Attachment | | | Accessory | Washer, drain hose, tie band | Washer, drain hose, tie band | Washer, drain hose, tie band |
| Optional Parts | | | Drain Pump Kit | PAC-KE08DM-E | PAC-KE08DM-E | PAC-KE08DM-E |

| Indoor Unit | | | PEFY-W32VMS-A | PEFY-W40VMS-A | PEFY-W50VMS-A |
|--|--------------------------------------|---------------------|---|--------------------------------|--------------------------------|
| Power Source | | | 1-phase 220-230-240 V 50/60 Hz | | |
| Cooling Capacity | [Nominal] ^{*1} | kW | 3.6 | 4.5 | 5.6 |
| | Power Input ^{*2} | kW | 0.040 | 0.045 | 0.070 |
| | Current Input ^{*2} | A | 0.37 | 0.39 | 0.55 |
| Heating Capacity | [Nominal] ^{*3} | kW | 4.0 | 5.0 | 6.3 |
| | Power Input ^{*2} | kW | 0.040 | 0.045 | 0.070 |
| | Current Input ^{*2} | A | 0.37 | 0.39 | 0.55 |
| External Finish | | | Galvanized steel plate | Galvanized steel plate | Galvanized steel plate |
| External Dimension H x W x D | | | 200 x 790 x 700 | 200 x 990 x 700 | 200 x 990 x 700 |
| Net Weight | | | 19.5 | 23.5 | 23.5 |
| Heat Exchanger | | | Cross fin (Aluminum fin and copper tube) | | |
| Fan | Water Volume | L | 1.0 | 1.0 | 1.0 |
| | Type x Quantity | | Sirocco fan x 2 | Sirocco fan x 3 | Sirocco fan x 3 |
| | External Static Press. ^{*4} | Pa | <5> - 15 - <35> - <50> | <5> - 15 - <35> - <50> | <5> - 15 - <35> - <50> |
| | Motor Type | | DC motor | DC motor | DC motor |
| | Motor Output | kW | 0.096 | 0.096 | 0.096 |
| | Driving Mechanism | | Direct-driven by motor | Direct-driven by motor | Direct-driven by motor |
| | Air Flow Rate | | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) |
| | | m ³ /min | 5.5 - 6.5 - 9.0 | 8.0 - 9.5 - 11.0 | 9.5 - 12.0 - 14.5 |
| | | L/S | 92 - 108 - 150 | 133 - 158 - 183 | 158 - 200 - 242 |
| Sound Pressure Level (Measured in Anechoic Room) ^{*2} | | dB <A> | (Low-Mid-High) 24 - 25 - 31 | (Low-Mid-High) 24 - 25 - 28 | (Low-Mid-High) 25 - 29 - 33 |
| Insulation Material | | | Polystyrene foam, Polyethylene foam, Urethane foam | | |
| Air Filter | | | PP honeycomb fabric | PP honeycomb fabric | PP honeycomb fabric |
| Protection Device | | | Fuse | Fuse | Fuse |
| Connectable Outdoor Unit/HBC Controller/Hydro Unit | | | Hybrid City Multi/CMB-WM-V-AA, CMB-WM-V-AB/CMH-WM-V-A | | |
| Water Piping Diameter ^{*5,6} | Inlet | mm I.D | 20 | 20 | 20 |
| | Outlet | mm I.D | 20 | 20 | 20 |
| Field Drain Pipe Size | | mm (in.) | O.D.32 (1-1/4) | O.D.32 (1-1/4) | O.D.32 (1-1/4) |
| Standard Attachment | | | Accessory | Washer, drain hose, tie band | Washer, drain hose, tie band |
| Optional Parts | | | Drain Pump Kit | PAC-KE08DM-E | PAC-KE08DM-E |

Notes:

- *1 Nominal cooling conditions
Indoor: 27°C D.B./19°C W.B., Outdoor: 35°C D.B.
Pipe length: 7.5 m, Level difference: 0 m.
- *2 The values are measured at the factory setting of external static pressure.
- *3 Nominal heating conditions
Indoor: 20°C D.B., Outdoor: 7°C D.B./6°C W.B.
Pipe length: 7.5 m, Level difference: 0 m.
- *4 The factory setting of external static pressure is shown without < > .
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.
- *5 Be sure to install a valve on the water inlet/outlet.
- *6 Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.
- *7 Please group units that operate on 1 branch of HBC controller.
- *8 Regarding W40VMS-A, the high notch air flow rate is different from the spec value when the external static pressure setting is set to 5Pa.
See "Fan characteristics curves" in DATABOOK for the details.

Product Specifications

Indoor Units



| Ceiling Concealed Medium Static Pressure Type (without Flow Control Valve) | | | | | | | |
|--|--------------------------------------|---------------------|--|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Indoor Unit | | | PEFY-WP20VMA-E | PEFY-WP25VMA-E | PEFY-WP32VMA-E | PEFY-WP40VMA-E | PEFY-WP50VMA-E |
| Power Source | | | 1-phase 220-230-240 V 50/60 Hz | | | | |
| Cooling Capacity | [Nominal] ^{*1} | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 |
| | Power Input ^{*2} | kW | 0.07 | 0.09 | 0.11 | 0.14 | 0.14 |
| | Current Input ^{*2} | A | 0.55 | 0.64 | 0.74 | 1.15 | 1.15 |
| Heating Capacity | [Nominal] ^{*3} | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 |
| | Power Input ^{*2} | kW | 0.05 | 0.07 | 0.09 | 0.12 | 0.12 |
| | Current Input ^{*2} | A | 0.44 | 0.53 | 0.63 | 1.04 | 1.04 |
| External Finish | | | Galvanized steel plate | Galvanized steel plate | Galvanized steel plate | Galvanized steel plate | Galvanized steel plate |
| External Dimension H x W x D | | mm | 250 x 700 x 732 | 250 x 900 x 732 | 250 x 900 x 732 | 250 x 1,100 x 732 | 250 x 1,100 x 732 |
| Net Weight | | kg | 21 | 26 | 26 | 31 | 31 |
| Heat Exchanger | | | Cross fin (Aluminum fin and copper tube) | | | | |
| Fan | Water Volume | L | 0.7 | 1.0 | 1.0 | 1.8 | 1.8 |
| | Type x Quantity | | Sirocco fan x 1 | Sirocco fan x 1 | Sirocco fan x 1 | Sirocco fan x 2 | Sirocco fan x 2 |
| | External Static Press. ^{*4} | 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> |
| | Motor Type | | DC motor | DC motor | DC motor | DC motor | DC motor |
| | Motor Output | kW | 0.085 | 0.085 | 0.085 | 0.121 | 0.121 |
| | Driving Mechanism | | Direct-driven by motor | Direct-driven by motor | Direct-driven by motor | Direct-driven by motor | Direct-driven by motor |
| | Air Flow Rate | | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) |
| | | m ³ /min | 7.5 - 9.0 - 10.5 | 10.0 - 12.0 - 14.0 | 12.0 - 14.5 - 17.0 | 14.5 - 18.0 - 21.0 | 14.5 - 18.0 - 21.0 |
| | | L/S | 125 - 150 - 175 | 167 - 200 - 233 | 200 - 242 - 283 | 242 - 300 - 350 | 242 - 300 - 350 |
| Sound Pressure Level (Measured in Anechoic Room) ^{*2} | | | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) |
| | | dB <A> | 23 - 26 - 29 | 23 - 27 - 30 | 25 - 29 - 32 | 26 - 29 - 34 | 26 - 29 - 34 |
| Insulation Material | | | EPS, Polyethylene foam, Urethane foam | | | | |
| Air Filter | | | PP honeycomb fabric | PP honeycomb fabric | PP honeycomb fabric | PP honeycomb fabric | PP honeycomb fabric |
| Protection Device | | | Fuse | Fuse | Fuse | Fuse | Fuse |
| Connectable HBC Controller | | | CMB-WM-V-AA, CMB-WM-V-AB | | | | |
| Water Piping Diameter ^{*5,6} | Inlet | in. | Rc 3/4 screw | Rc 3/4 screw | Rc 3/4 screw | Rc 3/4 screw | Rc 3/4 screw |
| | Outlet | in. | Rc 3/4 screw | Rc 3/4 screw | Rc 3/4 screw | Rc 3/4 screw | Rc 3/4 screw |
| Field Drain Pipe Size | | mm (in.) | O.D.32 (1-1/4) | O.D.32 (1-1/4) | O.D.32 (1-1/4) | O.D.32 (1-1/4) | O.D.32 (1-1/4) |
| Standard Attachment | | Accessory | Insulation pipe for water pipe, washer, drain hose, tie band | | | | |
| Optional Parts | | Filter Box | PAC-KE91TB-E | PAC-KE92TB-E | PAC-KE92TB-E | PAC-KE93TB-E | PAC-KE93TB-E |

| Indoor Unit | | | PEFY-WP63VMA-E | PEFY-WP71VMA-E | PEFY-WP80VMA-E | PEFY-WP100VMA-E | PEFY-WP125VMA-E |
|--|--------------------------------------|--------------------------------|--|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Power Source | | | 1-phase 220-230-240 V 50/60 Hz | | | | |
| Cooling Capacity | [Nominal]* ¹ | kW | 7.1 | 8.0 | 9.0 | 11.2 | 14.0 |
| | Power Input* ² | kW | 0.14 | 0.24 | 0.24 | 0.24 | 0.36 |
| | Current Input* ² | A | 1.15 | 1.47 | 1.47 | 1.47 | 2.21 |
| Heating Capacity | [Nominal]* ³ | kW | 8.0 | 9.0 | 10.0 | 12.5 | 16.0 |
| | Power Input* ² | kW | 0.12 | 0.22 | 0.22 | 0.22 | 0.34 |
| | Current Input* ² | A | 1.04 | 1.36 | 1.36 | 1.36 | 2.10 |
| External Finish | | | Galvanized steel plate | Galvanized steel plate | Galvanized steel plate | Galvanized steel plate | Galvanized steel plate |
| External Dimension H x W x D | | mm | 250 x 1,100 x 732 | 250 x 1,400 x 732 | 250 x 1,400 x 732 | 250 x 1,400 x 732 | 250 x 1,600 x 732 |
| Net Weight | | kg | 31 | 40 | 40 | 40 | 42 |
| Heat Exchanger | | | Cross fin (Aluminum fin and copper tube) | | | | |
| Fan | Water Volume | L | 2.0 | 2.6 | 2.6 | 2.6 | 3.0 |
| | Type x Quantity | | Sirocco fan x 2 | Sirocco fan x 2 | Sirocco fan x 2 | Sirocco fan x 2 | Sirocco fan x 2 |
| | External Static Press.* ⁴ | 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> |
| | Motor Type | | DC motor | DC motor | DC motor | DC motor | DC motor |
| | Motor Output | kW | 0.121 | 0.244 | 0.244 | 0.244 | 0.244 |
| | Driving Mechanism | | Direct-driven by motor | Direct-driven by motor | Direct-driven by motor | Direct-driven by motor | Direct-driven by motor |
| | Air Flow Rate | | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) |
| | | m ³ /min | 14.5 - 18.0 - 21.0 | 23.0 - 28.0 - 33.0 | 23.0 - 28.0 - 33.0 | 23.0 - 28.0 - 33.0 | 29.5 - 35.5 - 42.0 |
| Sound Pressure Level (Measured in Anechoic Room)* ² | L/S | 242 - 300 - 350 | 383 - 467 - 550 | 383 - 467 - 550 | 383 - 467 - 550 | 492 - 592 - 700 | |
| | dB <A> | (Low-Mid-High) 26 - 29 - 34 | (Low-Mid-High) 28 - 33 - 37 | (Low-Mid-High) 28 - 33 - 37 | (Low-Mid-High) 28 - 33 - 37 | (Low-Mid-High) 32 - 36 - 40 | |
| Insulation Material | | | EPS, Polyethylene foam, Urethane foam | | | | |
| Air Filter | | | PP honeycomb fabric | PP honeycomb fabric | PP honeycomb fabric | PP honeycomb fabric | PP honeycomb fabric |
| Protection Device | | | Fuse | Fuse | Fuse | Fuse | Fuse |
| Connectable HBC Controller | | | CMB-WM-V-AA, CMB-WM-V-AB | | | | |
| Water Piping Diameter* ^{5,6} | Inlet | in. | Rc 1-1/4 screw | Rc 1-1/4 screw | Rc 1-1/4 screw | Rc 1-1/4 screw | Rc 1-1/4 screw |
| | Outlet | in. | Rc 1-1/4 screw | Rc 1-1/4 screw | Rc 1-1/4 screw | Rc 1-1/4 screw | Rc 1-1/4 screw |
| Field Drain Pipe Size | | mm (in.) | O.D.32 (1-1/4) | O.D.32 (1-1/4) | O.D.32 (1-1/4) | O.D.32 (1-1/4) | O.D.32 (1-1/4) |
| Standard Attachment | | Accessory | Insulation pipe for water pipe, washer, drain hose, tie band | | | | |
| Optional Parts | | Filter Box | PAC-KE93TB-E | PAC-KE94TB-E | PAC-KE94TB-E | PAC-KE94TB-E | PAC-KE95TB-E |

Notes:

^{*1} Nominal cooling conditions

Indoor: 27°CDB./19°CWB., Outdoor:

Pipe length: 7.5 m, Level difference: 0 m.

^{*2} The values are measured at the factory setting of external static pressure.

^{*3} Nominal heating conditions

Indoor: 20°CDB., Outdoor: 7°CDB./6°CWB.

Pipe length: 7.5 m, Level difference: 0 m.

^{*4} The factory setting of external static pressure is shown without < >.

Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.

^{*5} Be sure to install a valve on the water outlet.

^{*6} Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.



| Ceiling Concealed Medium Static Pressure Type (with Flow Control Valve/Built-In Drain Pump) | | | | | | |
|---|--------------------------------------|---|---|---|---|---|
| Indoor Unit | | PEFY-W20VMA-A | PEFY-W25VMA-A | PEFY-W32VMA-A | PEFY-W40VMA-A | PEFY-W50VMA-A |
| Power Source | | 1-phase 220-230-240 V 50 Hz | | | | |
| Cooling Capacity | [Nominal] ^{*1} | kW | 2.2 | 2.8 | 3.6 | 4.5 |
| | Power Input ^{*2} | kW | 0.032 | 0.032 | 0.044 | 0.047 |
| | Current Input ^{*2} | A | 0.26 - 0.25 - 0.24 (220 - 230 - 240 V) | 0.26 - 0.25 - 0.24 (220 - 230 - 240 V) | 0.36 - 0.34 - 0.33 (220 - 230 - 240 V) | 0.39 - 0.37 - 0.36 (220 - 230 - 240 V) |
| Heating Capacity | [Nominal] ^{*3} | kW | 2.5 | 3.2 | 4.0 | 5.0 |
| | Power Input ^{*2} | kW | 0.030 | 0.030 | 0.042 | 0.045 |
| | Current Input ^{*2} | A | 0.26 - 0.25 - 0.24 (220 - 230 - 240 V) | 0.26 - 0.25 - 0.24 (220 - 230 - 240 V) | 0.36 - 0.34 - 0.33 (220 - 230 - 240 V) | 0.39 - 0.37 - 0.36 (220 - 230 - 240 V) |
| External Finish | | Galvanized steel plate | | | | |
| External Dimension H x W x D | | mm | 250 x 700 x 732 | 250 x 700 x 732 | 250 x 700 x 732 | 250 x 900 x 732 |
| Net Weight | | kg | 22 | 22 | 22 | 26 |
| Heat Exchanger | | Cross fin (Aluminum fin and copper tube) | | | | |
| Fan | Water Volume | L | 0.7 | 0.7 | 0.7 | 1.0 |
| | Type x Quantity | | Sirocco fan x 1 | Sirocco fan x 1 | Sirocco fan x 1 | Sirocco fan x 2 |
| | External Static Press. ^{*4} | Pa | 35 - <50> - <70> - <100> - <150> | 35 - <50> - <70> - <100> - <150> | 35 - <50> - <70> - <100> - <150> | 35 - <50> - <70> - <100> - <150> |
| | Motor Type | | DC motor | DC motor | DC motor | DC motor |
| | Motor Output | kW | 0.085 | 0.085 | 0.085 | 0.121 |
| | Driving Mechanism | | Direct-driven by motor | Direct-driven by motor | Direct-driven by motor | Direct-driven by motor |
| | Air Flow Rate | | (Low-Mid-High) 6.0 - 7.5 - 8.5 L/S | (Low-Mid-High) 6.0 - 7.5 - 8.5 L/S | (Low-Mid-High) 7.5 - 9.0 - 10.5 L/S | (Low-Mid-High) 10.0 - 12.0 - 14.0 L/S |
| Sound Pressure Level (Measured in Anechoic Room) ^{*2} | | dB <A> | (Low-Mid-High) 21 - 25 - 27 | (Low-Mid-High) 21 - 25 - 27 | (Low-Mid-High) 23 - 27 - 30 | (Low-Mid-High) 26 - 28 - 31 |
| Insulation Material | | EPS, Polystyrene foam, Urethane foam | | | | |
| Air Filter | | PP honeycomb fabric | | | | |
| Protection Device | | Fuse | | | | |
| Connectable Outdoor Unit/HBC Controller/ Hydro Unit | | Hybrid City Multi/CMB-WM-V-AA, CMB-WM-V-AB/CMH-WM-V-A | | | | |
| Water Piping Diameter ^{*5,6} | Inlet | mm I.D | 20 | 20 | 20 | 20 |
| | Outlet | mm I.D | 20 | 20 | 20 | 20 |
| Field Drain Pipe Size | | mm (in.) | O.D.32 (1-1/4") | O.D.32 (1-1/4") | O.D.32 (1-1/4") | O.D.32 (1-1/4") |
| Standard Attachment | | Accessory | Washer, drain hose, tie band | | | |
| Optional Parts | | Filter Box | PAC-KE91TB-E | PAC-KE91TB-E | PAC-KE91TB-E | PAC-KE92TB-E |

| Indoor Unit | | PEFY-W63VMA-A | PEFY-W71VMA-A | PEFY-W80VMA-A | PEFY-W100VMA-A | PEFY-W125VMA-A |
|---|--------------------------------------|---|---|---|---|---|
| Power Source | | 1-phase 220-230-240 V 50 Hz | | | | |
| Cooling Capacity | [Nominal] ^{*1} | kW | 7.1 | 8.0 | 9.0 | 11.2 |
| | Power Input ^{*2} | kW | 0.093 | 0.093 | 0.093 | 0.142 |
| | Current Input ^{*2} | A | 0.68 - 0.65 - 0.62 (220 - 230 - 240 V) | 0.68 - 0.65 - 0.62 (220 - 230 - 240 V) | 0.68 - 0.65 - 0.62 (220 - 230 - 240 V) | 1.01 - 0.97 - 0.93 (220 - 230 - 240 V) |
| Heating Capacity | [Nominal] ^{*3} | kW | 8.0 | 9.0 | 10.0 | 12.5 |
| | Power Input ^{*2} | kW | 0.091 | 0.091 | 0.091 | 0.140 |
| | Current Input ^{*2} | A | 0.68 - 0.65 - 0.62 (220 - 230 - 240 V) | 0.68 - 0.65 - 0.62 (220 - 230 - 240 V) | 0.68 - 0.65 - 0.62 (220 - 230 - 240 V) | 1.01 - 0.97 - 0.93 (220 - 230 - 240 V) |
| External Finish | | Galvanized steel plate | | | | |
| External Dimension H x W x D | | mm | 250 x 1,100 x 732 | 250 x 1,100 x 732 | 250 x 1,100 x 732 | 250 x 1,400 x 732 |
| Net Weight | | kg | 30 | 30 | 30 | 37 |
| Heat Exchanger | | Cross fin (Aluminum fin and copper tube) | | | | |
| Fan | Water Volume | L | 2.0 | 2.0 | 2.0 | 2.6 |
| | Type x Quantity | | Sirocco fan x 2 | Sirocco fan x 2 | Sirocco fan x 2 | Sirocco fan x 3 |
| | External Static Press. ^{*4} | Pa | 40 - <50> - <70> - <100> - <150> | 40 - <50> - <70> - <100> - <150> | 40 - <50> - <70> - <100> - <150> | 40 - <50> - <70> - <100> - <150> |
| | Motor Type | | DC motor | DC motor | DC motor | DC motor |
| | Motor Output | kW | 0.121 | 0.121 | 0.121 | 0.300 |
| | Driving Mechanism | | Direct-driven by motor | Direct-driven by motor | Direct-driven by motor | Direct-driven by motor |
| | Air Flow Rate | | (Low-Mid-High) 14.5 - 18.0 - 21.0 L/S | (Low-Mid-High) 14.5 - 18.0 - 21.0 L/S | (Low-Mid-High) 14.5 - 18.0 - 21.0 L/S | (Low-Mid-High) 23.0 - 28.0 - 32.0 L/S |
| Sound Pressure Level (Measured in Anechoic Room) ^{*2} | | dB <A> | (Low-Mid-High) 26 - 31 - 35 | (Low-Mid-High) 26 - 31 - 35 | (Low-Mid-High) 26 - 31 - 35 | (Low-Mid-High) 30 - 35 - 38 |
| Insulation Material | | EPS, Polystyrene foam, Urethane foam | | | | |
| Air Filter | | PP honeycomb fabric | | | | |
| Protection Device | | Fuse | | | | |
| Connectable Outdoor Unit/HBC Controller/ Hydro Unit | | Hybrid City Multi/CMB-WM-V-AA, CMB-WM-V-AB/CMH-WM-V-A | | | | |
| Water Piping Diameter ^{*5,6} | Inlet | mm I.D | 30 | 30 | 30 | 30 |
| | Outlet | mm I.D | 30 | 30 | 30 | 30 |
| Field Drain Pipe Size | | mm (in.) | O.D.32 (1-1/4") | O.D.32 (1-1/4") | O.D.32 (1-1/4") | O.D.32 (1-1/4") |
| Standard Attachment | | Accessory | Washer, drain hose, tie band | | | |
| Optional Parts | | Filter Box | PAC-KE93TB-E | PAC-KE93TB-E | PAC-KE93TB-E | PAC-KE94TB-E |

Notes:

*1 Nominal cooling conditions
Indoor: 27°CDB./19°CWB., Outdoor: 35°CDB.
Pipe length: 7.5 m, Level difference: 0 m.

*2 The values are measured at the factory setting of external static pressure.

*3 Nominal heating conditions
Indoor: 20°CDB., Outdoor: 7°CDB./6°CWB.
Pipe length: 7.5 m, Level difference: 0 m.

*4 The factory setting of airflow mode and external static pressure mode is shown without < >.

Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.

*5 Be sure to install a valve on the water inlet/outlet.

*6 Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.

*7 Please group units that operate on 1 branch.

Product Specifications

Indoor Units



| Ceiling Concealed Medium Static Pressure Type (with Flow Control Valve/No Drain Pump) | | | | | | |
|---|--------------------------------------|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Indoor Unit | | PEFY-W20VMAL-A | PEFY-W25VMAL-A | PEFY-W32VMAL-A | PEFY-W40VMAL-A | PEFY-W50VMAL-A |
| Power Source | | 1-phase 220-230-240 V 50 Hz | | | | |
| Cooling Capacity | [Nominal] ^{*1} | kW | 2.2 | 2.8 | 3.6 | 4.5 |
| | Power Input ^{*2} | kW | 0.030 | 0.030 | 0.042 | 0.045 |
| | Current Input ^{*2} | A | 0.26-0.25-0.24 (220-230-240 V) | 0.26-0.25-0.24 (220-230-240 V) | 0.36-0.34-0.33 (220-230-240 V) | 0.39-0.37-0.36 (220-230-240 V) |
| Heating Capacity | [Nominal] ^{*3} | kW | 2.5 | 3.2 | 4.0 | 5.0 |
| | Power Input ^{*2} | kW | 0.030 | 0.030 | 0.042 | 0.045 |
| | Current Input ^{*2} | A | 0.26-0.25-0.24 (220-230-240 V) | 0.26-0.25-0.24 (220-230-240 V) | 0.36-0.34-0.33 (220-230-240 V) | 0.39-0.37-0.36 (220-230-240 V) |
| External Finish | | Galvanized steel plate | Galvanized steel plate | Galvanized steel plate | Galvanized steel plate | Galvanized steel plate |
| External Dimension H x W x D | | mm | 250 x 700 x 732 | 250 x 700 x 732 | 250 x 700 x 732 | 250 x 900 x 732 |
| Net Weight | | kg | 21 | 21 | 21 | 25 |
| Heat Exchanger | | Cross fin (Aluminum fin and copper tube) | | | | |
| Fan | Water Volume | L | 0.7 | 0.7 | 0.7 | 1.0 |
| | Type x Quantity | | Sirocco fan x 1 | Sirocco fan x 1 | Sirocco fan x 1 | Sirocco fan x 2 |
| | External Static Press. ^{*4} | Pa | 35 - <50> - <70> - <100> - <150> | 35 - <50> - <70> - <100> - <150> | 35 - <50> - <70> - <100> - <150> | 35 - <50> - <70> - <100> - <150> |
| | Motor Type | | DC motor | DC motor | DC motor | DC motor |
| | Motor Output | kW | 0.085 | 0.085 | 0.085 | 0.121 |
| | Driving Mechanism | | Direct-driven by motor | Direct-driven by motor | Direct-driven by motor | Direct-driven by motor |
| Air Flow Rate | | | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) |
| | | m ³ /min | 6.0 - 7.5 - 8.5 | 6.0 - 7.5 - 8.5 | 7.5 - 9.0 - 10.5 | 10.0 - 12.0 - 14.0 |
| | | L/S | 100 - 125 - 142 | 100 - 125 - 142 | 125 - 150 - 175 | 167 - 200 - 233 |
| Sound Pressure Level (Measured in Anechoic Room) ^{*2} | | dB <A> | (Low-Mid-High) 21 - 25 - 27 | (Low-Mid-High) 21 - 25 - 27 | (Low-Mid-High) 23 - 27 - 30 | (Low-Mid-High) 23 - 28 - 31 |
| Insulation Material | | EPS, Polystyrene foam, Urethane foam | | | | |
| Air Filter | | PP honeycomb fabric | PP honeycomb fabric | PP honeycomb fabric | PP honeycomb fabric | PP honeycomb fabric |
| Protection Device | | Fuse | Fuse | Fuse | Fuse | Fuse |
| Connectable Outdoor Unit/HBC Controller/ Hydro Unit | | Hybrid City Multi/CMB-WM-V-AA, CMB-WM-V-AB/CMH-WM-V-A | | | | |
| Water Piping Diameter ^{*5,6} | Inlet | mm I.D | 20 | 20 | 20 | 20 |
| | Outlet | mm I.D | 20 | 20 | 20 | 20 |
| Field Drain Pipe Size | | mm (in.) | O.D.32 (1-1/4") | O.D.32 (1-1/4") | O.D.32 (1-1/4") | O.D.32 (1-1/4") |
| Standard Attachment | | Accessory | Washer, drain hose, tie band | | | |
| Optional Parts | | Filter Box | PAC-KE91TB-E | PAC-KE91TB-E | PAC-KE91TB-E | PAC-KE92TB-E |

| Indoor Unit | | PEFY-W63VMAL-A | PEFY-W71VMAL-A | PEFY-W80VMAL-A | PEFY-W100VMAL-A | PEFY-W125VMAL-A |
|---|--------------------------------------|---|---|---|---|---|
| Power Source | | 1-phase 220-230-240 V 50 Hz | | | | |
| Cooling Capacity | [Nominal] ^{*1} | kW | 7.1 | 8.0 | 9.0 | 11.2 |
| | Power Input ^{*2} | kW | 0.091 | 0.091 | 0.091 | 0.140 |
| | Current Input ^{*2} | A | 0.68 - 0.65 - 0.62 (220 - 230 - 240 V) | 0.68 - 0.65 - 0.62 (220 - 230 - 240 V) | 0.68 - 0.65 - 0.62 (220 - 230 - 240 V) | 1.01 - 0.97 - 0.93 (220 - 230 - 240 V) |
| Heating Capacity | [Nominal] ^{*3} | kW | 8.0 | 9.0 | 10.0 | 12.5 |
| | Power Input ^{*2} | kW | 0.091 | 0.091 | 0.091 | 0.140 |
| | Current Input ^{*2} | A | 0.68 - 0.65 - 0.62 (220 - 230 - 240 V) | 0.68 - 0.65 - 0.62 (220 - 230 - 240 V) | 0.68 - 0.65 - 0.62 (220 - 230 - 240 V) | 1.01 - 0.97 - 0.93 (220 - 230 - 240 V) |
| External Finish | | Galvanized steel plate | Galvanized steel plate | Galvanized steel plate | Galvanized steel plate | Galvanized steel plate |
| External Dimension H x W x D | | mm | 250 x 1,100 x 732 | 250 x 1,100 x 732 | 250 x 1,100 x 732 | 250 x 1,400 x 732 |
| Net Weight | | kg | 29 | 29 | 29 | 36 |
| Heat Exchanger | | Cross fin (Aluminum fin and copper tube) | | | | |
| Fan | Water Volume | L | 2.0 | 2.0 | 2.0 | 2.6 |
| | Type x Quantity | | Sirocco fan x 2 | Sirocco fan x 2 | Sirocco fan x 2 | Sirocco fan x 3 |
| | External Static Press. ^{*4} | Pa | 40 - <50> - <70> - <100> - <150> | 40 - <50> - <70> - <100> - <150> | 40 - <50> - <70> - <100> - <150> | 40 - <50> - <70> - <100> - <150> |
| | Motor Type | | DC motor | DC motor | DC motor | DC motor |
| | Motor Output | kW | 0.121 | 0.121 | 0.121 | 0.300 |
| | Driving Mechanism | | Direct-driven by motor | Direct-driven by motor | Direct-driven by motor | Direct-driven by motor |
| Air Flow Rate | | | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) |
| | | m ³ /min | 14.5 - 18.0 - 21.0 | 14.5 - 18.0 - 21.0 | 14.5 - 18.0 - 21.0 | 23.0 - 28.0 - 32.0 |
| | | L/S | 242 - 300 - 350 | 242 - 300 - 350 | 242 - 300 - 350 | 383 - 467 - 533 |
| Sound Pressure Level (Measured in Anechoic Room) ^{*2} | | dB <A> | (Low-Mid-High) 26 - 31 - 35 | (Low-Mid-High) 26 - 31 - 35 | (Low-Mid-High) 26 - 31 - 35 | (Low-Mid-High) 30 - 35 - 38 |
| Insulation Material | | EPS, Polystyrene foam, Urethane foam | | | | |
| Air Filter | | PP honeycomb fabric | PP honeycomb fabric | PP honeycomb fabric | PP honeycomb fabric | PP honeycomb fabric |
| Protection Device | | Fuse | Fuse | Fuse | Fuse | Fuse |
| Connectable Outdoor Unit/HBC Controller/ Hydro Unit | | Hybrid City Multi/CMB-WM-V-AA, CMB-WM-V-AB/CMH-WM-V-A | | | | |
| Water Piping Diameter ^{*5,6} | Inlet | mm I.D | 30 | 30 | 30 | 30 |
| | Outlet | mm I.D | 30 | 30 | 30 | 30 |
| Field Drain Pipe Size | | mm (in.) | O.D.32 (1-1/4") | O.D.32 (1-1/4") | O.D.32 (1-1/4") | O.D.32 (1-1/4") |
| Standard Attachment | | Accessory | Washer, drain hose, tie band | | | |
| Optional Parts | | Filter Box | PAC-KE93TB-E | PAC-KE93TB-E | PAC-KE93TB-E | PAC-KE94TB-E |

Notes:

^{*1} Nominal cooling conditions
Indoor: 27°CDB./19°CWB., Outdoor: 35°CDB.
Pipe length: 7.5 m, Level difference: 0 m.

^{*2} The values are measured at the factory setting of external static pressure.

^{*3} Nominal heating conditions
Indoor: 20°CDB., Outdoor: 7°CDB./6°CWB.
Pipe length: 7.5 m, Level difference: 0 m.

^{*4} The factory setting of airflow mode and external static pressure mode is shown without < >.
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK
for the usable range of air flow rate.

^{*5} Be sure to install a valve on the water inlet/outlet.

^{*6} Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.

^{*7} Please group units that operate on 1 branch.



| Ceiling Concealed Medium Static Pressure Type (with Flow Control Valve/High Efficiency Model) | | | | | | |
|---|--------------------------------------|---|---|---|---|---|
| Indoor Unit | | PEFY-W20VMA2-A | PEFY-W25VMA2-A | PEFY-W32VMA2-A | PEFY-W40VMA2-A | PEFY-W50VMA2-A |
| Power Source | | 1-phase 220-230-240 V 50 Hz | | | | |
| Cooling Capacity | [Nominal] ^{*1} | kW | 2.2 | 2.8 | 3.6 | 4.5 |
| | Power Input ^{*2} | kW | 0.093 | 0.093 | 0.093 | 0.093 |
| | Current Input ^{*2} | A | 0.68 - 0.65 - 0.62 (220 - 230 - 240 V) | 0.68 - 0.65 - 0.62 (220 - 230 - 240 V) | 0.68 - 0.65 - 0.62 (220 - 230 - 240 V) | 0.68 - 0.65 - 0.62 (220 - 230 - 240 V) |
| Heating Capacity | [Nominal] ^{*3} | kW | 2.5 | 3.2 | 4.0 | 5.0 |
| | Power Input ^{*2} | kW | 0.091 | 0.091 | 0.091 | 0.091 |
| | Current Input ^{*2} | A | 0.68 - 0.65 - 0.62 (220 - 230 - 240 V) | 0.68 - 0.65 - 0.62 (220 - 230 - 240 V) | 0.68 - 0.65 - 0.62 (220 - 230 - 240 V) | 0.68 - 0.65 - 0.62 (220 - 230 - 240 V) |
| External Finish | | Galvanized steel plate | Galvanized steel plate | Galvanized steel plate | Galvanized steel plate | Galvanized steel plate |
| External Dimension H x W x D | | mm | 250 x 1,100 x 732 | 250 x 1,100 x 732 | 250 x 1,100 x 732 | 250 x 1,600 x 732 |
| Net Weight | | kg | 30 | 30 | 30 | 42 |
| Heat Exchanger | | Cross fin (Aluminum fin and copper tube) | | | | |
| Fan | Water Volume | L | 2.0 | 2.0 | 2.0 | 2.0 |
| | Type x Quantity | | Sirocco fan x 2 | Sirocco fan x 2 | Sirocco fan x 2 | Sirocco fan x 3 |
| | External Static Press. ^{*4} | Pa | 40 - <50> - <70> - <100> - <150> | 40 - <50> - <70> - <100> - <150> | 40 - <50> - <70> - <100> - <150> | <40> - 50 - <70> - <100> - <150> |
| | Motor Type | | DC motor | DC motor | DC motor | DC motor |
| | Motor Output | kW | 0.121 | 0.121 | 0.121 | 0.121 |
| | Driving Mechanism | | Direct-driven by motor | Direct-driven by motor | Direct-driven by motor | Direct-driven by motor |
| | Air Flow Rate | | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) |
| Sound Pressure Level (Measured in Anechoic Room) ^{*2} | | dB <A> | 26 - 31 - 35 | 26 - 31 - 35 | 26 - 31 - 35 | 26 - 31 - 35 |
| Insulation Material | | EPS, Polystyrene foam, Urethane foam | | | | |
| Air Filter | | PP honeycomb fabric | PP honeycomb fabric | PP honeycomb fabric | PP honeycomb fabric | PP honeycomb fabric |
| Protection Device | | Fuse | Fuse | Fuse | Fuse | Fuse |
| Connectable Outdoor Unit/HBC Controller/Hydro Unit | | Hybrid City Multi/CMB-WM-V-AA, CMB-WM-V-AB/CMH-WM-V-A | | | | |
| Water Piping Diameter ^{*5,6} | Inlet | mm I.D | 20 | 20 | 20 | 20 |
| | Outlet | mm I.D | 20 | 20 | 20 | 20 |
| Field Drain Pipe Size | | mm (in.) | O.D.32 (1-1/4") | O.D.32 (1-1/4") | O.D.32 (1-1/4") | O.D.32 (1-1/4") |
| Standard Attachment | | Accessory | Washer, drain hose, tie band | | | |
| Optional Parts | | Filter Box | PAC-KE93TB-E | PAC-KE93TB-E | PAC-KE93TB-E | PAC-KE93TB-E |

| Indoor Unit | | PEFY-W63VMA2-A | PEFY-W71VMA2-A | PEFY-W80VMA2-A | PEFY-W100VMA2-A | PEFY-W125VMA2-A |
|--|--------------------------------------|---|---|---|---|---|
| Power Source | | 1-phase 220-230-240 V 50 Hz | | | | |
| Cooling Capacity | [Nominal] ^{*1} | kW | 7.1 | 8.0 | 9.0 | 11.2 |
| | Power Input ^{*2} | kW | 0.208 | 0.208 | 0.208 | 0.208 |
| | Current Input ^{*2} | A | 1.40 - 1.34 - 1.28 (220 - 230 - 240 V) | 1.40 - 1.34 - 1.28 (220 - 230 - 240 V) | 1.40 - 1.34 - 1.28 (220 - 230 - 240 V) | 1.40 - 1.34 - 1.28 (220 - 230 - 240 V) |
| Heating Capacity | [Nominal] ^{*3} | kW | 8.0 | 9.0 | 10.0 | 12.5 |
| | Power Input ^{*2} | kW | 0.206 | 0.206 | 0.206 | 0.206 |
| | Current Input ^{*2} | A | 1.40 - 1.34 - 1.28 (220 - 230 - 240 V) | 1.40 - 1.34 - 1.28 (220 - 230 - 240 V) | 1.40 - 1.34 - 1.28 (220 - 230 - 240 V) | 1.40 - 1.34 - 1.28 (220 - 230 - 240 V) |
| External Finish | | Galvanized steel plate | Galvanized steel plate | Galvanized steel plate | Galvanized steel plate | Galvanized steel plate |
| External Dimension H x W x D | | mm | 250 x 1,600 x 732 | 250 x 1,600 x 732 | 250 x 1,600 x 732 | 250 x 1,600 x 732 |
| Net Weight | | kg | 42 | 42 | 42 | 42 |
| Heat Exchanger | | Cross fin (Aluminum fin and copper tube) | | | | |
| Fan | Water Volume | L | 3.5 | 3.5 | 3.5 | 3.5 |
| | Type x Quantity | | Sirocco fan x 3 | Sirocco fan x 3 | Sirocco fan x 3 | Sirocco fan x 3 |
| | External Static Press. ^{*4} | Pa | <40> - 50 - <70> - <100> - <150> | <40> - 50 - <70> - <100> - <150> | <40> - 50 - <70> - <100> - <150> | <40> - 50 - <70> - <100> - <150> |
| | Motor Type | | DC motor | DC motor | DC motor | DC motor |
| | Motor Output | kW | 0.300 | 0.300 | 0.300 | 0.300 |
| | Driving Mechanism | | Direct-driven by motor | Direct-driven by motor | Direct-driven by motor | Direct-driven by motor |
| | Air Flow Rate | | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) |
| Sound Pressure Level (Measured in Anechoic Room) ^{*2} | | dB <A> | 33 - 37 - 40 | 33 - 37 - 40 | 33 - 37 - 40 | 33 - 37 - 40 |
| Insulation Material | | EPS, Polystyrene foam, Urethane foam | | | | |
| Air Filter | | PP honeycomb fabric | PP honeycomb fabric | PP honeycomb fabric | PP honeycomb fabric | PP honeycomb fabric |
| Protection Device | | Fuse | Fuse | Fuse | Fuse | Fuse |
| Connectable Outdoor Unit/HBC Controller/Hydro Unit | | Hybrid City Multi/CMB-WM-V-AA, CMB-WM-V-AB/CMH-WM-V-A | | | | |
| Water Piping Diameter ^{*5,6} | Inlet | mm I.D | 30 | 30 | 30 | 30 |
| | Outlet | mm I.D | 30 | 30 | 30 | 30 |
| Field Drain Pipe Size | | mm (in.) | O.D.32 (1-1/4") | O.D.32 (1-1/4") | O.D.32 (1-1/4") | O.D.32 (1-1/4") |
| Standard Attachment | | Accessory | Washer, drain hose, tie band | | | |
| Optional Parts | | Filter Box | PAC-KE95TB-E | PAC-KE95TB-E | PAC-KE95TB-E | PAC-KE95TB-E |

Notes:

^{*1} Nominal cooling conditions
Indoor: 27°CDB./19°CWB., Outdoor: 35°CDB.
Pipe length: 7.5 m, Level difference: 0 m.

^{*2} The values are measured at the factory setting of external static pressure.

^{*3} Nominal heating conditions
Indoor: 20°CDB., Outdoor: 7°CDB./6°CWB.
Pipe length: 7.5 m, Level difference: 0 m.

^{*4} The factory setting of airflow mode and external static pressure mode is shown without < >.
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.

^{*5} Be sure to install a valve on the water inlet/outlet.

^{*6} Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.

^{*7} Please group units that operate on 1 branch.

Product Specifications

Indoor Units



| Ceiling Concealed High Static Pressure Type | | | | | |
|--|--------------------------------------|---|----------------------------|----------------------------|----------------------------|
| Indoor Unit | | PEFY-WL40VMHS-A | PEFY-WL50VMHS-A | PEFY-WL63VMHS-A | PEFY-WL71VMHS-A |
| Power Source | | 1-phase 220-230-240 V 50/60 Hz | | | |
| Cooling Capacity | [Nominal] ^{*1} | kW | 4.5 | 5.6 | 7.1 |
| | Power Input ^{*2} | kW | 0.055 | 0.077 | 0.095 |
| | Current Input ^{*2} | A | 0.41 - 0.39 - 0.38 | 0.58 - 0.55 - 0.52 | 0.70 - 0.67 - 0.64 |
| Heating Capacity | [Nominal] ^{*3} | kW | 5.0 | 6.3 | 8.0 |
| | Power Input ^{*2} | kW | 0.055 | 0.077 | 0.095 |
| | Current Input ^{*2} | A | 0.41 - 0.39 - 0.38 | 0.58 - 0.55 - 0.52 | 0.70 - 0.67 - 0.64 |
| External Finish | | Galvanized steel plate | | | |
| External Dimension H x W x D | | mm | | | |
| Net Weight | | kg | | | |
| Heat Exchanger | | Cross fin (Aluminum fin and copper tube) | | | |
| Fan | Water Volume | L | 1.4 | 1.4 | 1.8 |
| | Type x Quantity | | Sirocco fan x 1 | Sirocco fan x 1 | Sirocco fan x 1 |
| | External Static Press. ^{*4} | Pa | 50 - <100> - <150> - <200> | 50 - <100> - <150> - <200> | 50 - <100> - <150> - <200> |
| | Motor Type | | DC motor | DC motor | DC motor |
| | Motor Output | kW | 0.121 | 0.121 | 0.121 |
| | Driving Mechanism | | Direct-driven by motor | Direct-driven by motor | Direct-driven by motor |
| | Air Flow Rate | | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) |
| Sound Pressure Level (Measured in Anechoic Room) ^{*2} | | dB <A> | 22.0 - 25.0 - 29.0 | 24.0 - 27.0 - 32.0 | 25.5 - 28.5 - 32.5 |
| Insulation Material | | Polystyrene foam, Polyethylene foam, Urethane foam | | | |
| Air Filter | | Option: Synthetic fiber unwoven cloth filter (long life filter) and filter box are recommended. | | | |
| Protection Device | | Fuse | | | |
| Connectable Outdoor Unit/HBC Controller/Hydro Unit | | Hybrid City Multi/CMB-WM-V-AA, CMB-WM-V-AB/CMH-WM-V-A | | | |
| Water Piping Diameter ^{*5,6} | Inlet | mm I.D | 20 | 20 | 30 |
| | Outlet | mm I.D | 20 | 20 | 30 |
| Field Drain Pipe Size | | mm (in.) | O.D.32 (1-1/4") | O.D.32 (1-1/4") | O.D.32 (1-1/4") |
| Standard Attachment | | Accessory | | | |
| Optional Parts | | Filter Box | | | |

| Indoor Unit | | PEFY-WL80VMHS-A | PEFY-WL100VMHS-A | PEFY-WL125VMHS-A |
|--|--------------------------------------|---|----------------------------|----------------------------|
| Power Source | | 1-phase 220-230-240 V 50/60 Hz | | |
| Cooling Capacity | [Nominal] ^{*1} | kW | 9.0 | 11.2 |
| | Power Input ^{*2} | kW | 0.090 | 0.160 |
| | Current Input ^{*2} | A | 0.63 - 0.61 - 0.58 | 1.05 - 1.01 - 0.96 |
| Heating Capacity | [Nominal] ^{*3} | kW | 10.0 | 12.5 |
| | Power Input ^{*2} | kW | 0.090 | 0.160 |
| | Current Input ^{*2} | A | 0.63 - 0.61 - 0.58 | 1.05 - 1.01 - 0.96 |
| External Finish | | Galvanized steel plate | | |
| External Dimension H x W x D | | mm | | |
| Net Weight | | kg | | |
| Heat Exchanger | | Cross fin (Aluminum fin and copper tube) | | |
| Fan | Water Volume | L | 1.8 | 2.3 |
| | Type x Quantity | | Sirocco fan x 2 | Sirocco fan x 2 |
| | External Static Press. ^{*4} | Pa | 50 - <100> - <150> - <200> | 50 - <100> - <150> - <200> |
| | Motor Type | | DC motor | DC motor |
| | Motor Output | kW | 0.244 | 0.375 |
| | Driving Mechanism | | Direct-driven by motor | Direct-driven by motor |
| | Air Flow Rate | | (Low-Mid-High) | (Low-Mid-High) |
| Sound Pressure Level (Measured in Anechoic Room) ^{*2} | | dB <A> | 26.0 - 29.0 - 32.0 | 28.0 - 32.0 - 36.0 |
| Insulation Material | | Polystyrene foam, Polyethylene foam, Urethane foam | | |
| Air Filter | | Option: Synthetic fiber unwoven cloth filter (long life filter) and filter box are recommended. | | |
| Protection Device | | Fuse | | |
| Connectable Outdoor Unit/HBC Controller/Hydro Unit | | Hybrid City Multi/CMB-WM-V-AA, CMB-WM-V-AB/CMH-WM-V-A | | |
| Water Piping Diameter ^{*5,6} | Inlet | mm I.D | 30 | 30 |
| | Outlet | mm I.D | 30 | 30 |
| Field Drain Pipe Size | | mm (in.) | O.D.32 (1-1/4") | O.D.32 (1-1/4") |
| Standard Attachment | | Accessory | | |
| Optional Parts | | Filter Box | | |

Notes:

*1 Nominal cooling conditions
Indoor: 27°C D.B./19°C W.B., Outdoor: 35°C D.B.
Pipe length: 7.5 m, Level difference: 0 m.

*2 The values are measured at the factory setting of external static pressure.

*3 Nominal heating conditions
Indoor: 20°C D.B., Outdoor: 7°C D.B./6°C W.B.
Pipe length: 7.5 m, Level difference: 0 m.

*4 The factory setting of airflow mode and external static pressure mode is shown without < >.
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.

*5 Be sure to install a valve on the water inlet/outlet.

*6 Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.

*7 Please group units that operate on 1 branch.



| 4-Way Air Flow Type (without Flow Control Valve) | | | | | | | | |
|--|--------------------------------|--------|--------------|---|---|---|---|---|
| Indoor Unit | | | | PLFY-WL20VEM-E | PLFY-WL25VEM-E | PLFY-WL32VEM-E | PLFY-WL40VEM-E | PLFY-WL50VEM-E |
| Power Source | | | | 1-phase 220-240 V 50 Hz, 1-phase 220V 60 Hz | | | | |
| Cooling Capacity [Nominal]* ¹ | | | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 |
| | Power Input | kW | | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 |
| | Current Input | A | | 0.26 | 0.29 | 0.33 | 0.35 | 0.40 |
| Heating Capacity [Nominal]* ² | | | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 |
| | Power Input | kW | | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 |
| | Current Input | A | | 0.20 | 0.23 | 0.27 | 0.29 | 0.34 |
| External Finish | | | | Galvanized steel sheet | Galvanized steel sheet | Galvanized steel sheet | Galvanized steel sheet | Galvanized steel sheet |
| External Dimension H x W x D | | | mm | 258 x 840 x 840 | 258 x 840 x 840 | 258 x 840 x 840 | 258 x 840 x 840 | 258 x 840 x 840 |
| Net Weight | | | kg | 18 | 18 | 20 | 20 | 20 |
| Decoration Panel | Model | | | PLP-6EA | PLP-6EA | PLP-6EA | PLP-6EA | PLP-6EA |
| | External Finish | | | MUNSELL (1.0Y 9.2/0.2) | MUNSELL (1.0Y 9.2/0.2) | MUNSELL (1.0Y 9.2/0.2) | MUNSELL (1.0Y 9.2/0.2) | MUNSELL (1.0Y 9.2/0.2) |
| | Dimension H x W x D | mm | | 40 x 950 x 950 | 40 x 950 x 950 | 40 x 950 x 950 | 40 x 950 x 950 | 40 x 950 x 950 |
| | Net Weight | | | kg | 5 | 5 | 5 | 5 |
| Heat Exchanger | | | | Cross fin (Aluminum fin and copper tube) | | | | |
| Water Volume | | | L | 1.0 | 1.0 | 1.8 | 1.8 | 1.8 |
| Fan | Type x Quantity | | | Turbo Fan x 1 | Turbo Fan x 1 | Turbo Fan x 1 | Turbo Fan x 1 | Turbo Fan x 1 |
| | External Static Press. | Pa | | 0 | 0 | 0 | 0 | 0 |
| | Motor Type | | | DC motor | DC motor | DC motor | DC motor | DC motor |
| | Motor Output | | | kW | 0.050 | 0.050 | 0.050 | 0.050 |
| | Driving Mechanism | | | Direct-driven by motor | Direct-driven by motor | Direct-driven by motor | Direct-driven by motor | Direct-driven by motor |
| | Air Flow Rate | | | (Low-Mid2-Mid1-High) 200 - 217 - 233 - 250 | (Low-Mid2-Mid1-High) 200 - 217 - 250 - 283 | (Low-Mid2-Mid1-High) 233 - 250 - 267 - 283 | (Low-Mid2-Mid1-High) 233 - 250 - 267 - 283 | (Low-Mid2-Mid1-High) 233 - 267 - 300 - 333 |
| Sound Pressure Level (Measured in Anechoic Room) | | | dB <A> | (Low-Mid2-Mid1-High) 24 - 26 - 27 - 28 | (Low-Mid2-Mid1-High) 24 - 26 - 28 - 30 | (Low-Mid2-Mid1-High) 26 - 27 - 29 - 30 | (Low-Mid2-Mid1-High) 26 - 28 - 29 - 31 | (Low-Mid2-Mid1-High) 27 - 29 - 31 - 33 |
| Insulation Material | | | | PS | PS | PS | PS | PS |
| Air Filter | | | | PP honeycomb | PP honeycomb | PP honeycomb | PP honeycomb | PP honeycomb |
| Protection Device | | | | Fuse | Fuse | Fuse | Fuse | Fuse |
| Connectable Outdoor Unit/HBC Controller | | | | HYBRID CITY MULTI/CMB-WM-V-AA, CMB-WM-V-AB | | | | |
| Diameter of Water Pipe* ^{3,4} | Connection | Inlet | mm O.D | 22 | 22 | 22 | 22 | 22 |
| | Size | Outlet | mm O.D | 22 | 22 | 22 | 22 | 22 |
| | Field Pipe | Inlet | mm I.D | 20 | 20 | 20 | 20 | 20 |
| | Size | Outlet | mm I.D | 20 | 20 | 20 | 20 | 20 |
| Field Drain Pipe Size | | | mm (in.) | O.D.32 (1-1/4) | O.D.32 (1-1/4) | O.D.32 (1-1/4) | O.D.32 (1-1/4) | |
| Optional Parts | Decoration Panel* ⁵ | | | PLP-6EA/PLP-6EAE/ PLP-6EAL/PLP-6EAL | PLP-6EA/PLP-6EAE/ PLP-6EAL/PLP-6EAL | PLP-6EA/PLP-6EAE/ PLP-6EAL/PLP-6EAL | PLP-6EA/PLP-6EAE/ PLP-6EAL/PLP-6EAL | PLP-6EA/PLP-6EAE/ PLP-6EAL/PLP-6EAL |
| | 3D i-See Sensor Corner Panel | | | PAC-SE1ME-E | PAC-SE1ME-E | PAC-SE1ME-E | PAC-SE1ME-E | PAC-SE1ME-E |
| | Wireless Signal Receiver | | | PAR-SE9FA-E | PAR-SE9FA-E | PAR-SE9FA-E | PAR-SE9FA-E | PAR-SE9FA-E |
| | Valve Kit* ⁶ | | | PAC-SK35VK-E | PAC-SK35VK-E | PAC-SK35VK-E | PAC-SK35VK-E | PAC-SK35VK-E |
| | 6m Lead Wire | | | PAC-SK40LW-E | PAC-SK40LW-E | PAC-SK40LW-E | PAC-SK40LW-E | PAC-SK40LW-E |
| Attachment Plates | | | PAC-SK39AP-E | PAC-SK39AP-E | PAC-SK39AP-E | PAC-SK39AP-E | PAC-SK39AP-E | |

Notes:

- *1 Nominal cooling conditions
Indoor: 27°CDB./19°CWB. (81°FDB./66°FWB.), Outdoor: 35°CDB. (95°FDB.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- *2 Nominal heating conditions
Indoor: 20°CDB. (68°FDB.), Outdoor: 7°CDB./6°CWB. (45°FDB./43°FWB.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- *3 Be sure to install a valve on the water outlet.
- *4 Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.
- *5 PLFY-WL-VEM-E should be used together with Decoration panel.
- *6 Certain restrictions apply to indoor unit combinations.
Refer to the section on the valve kit in the chapter "OPTIONAL PARTS" in the DATA BOOK for the restrictions.
When the valve kit is installed farther away from the HBC than the distance between the HBC and the WL-model indoor unit, the maximum allowable height difference between the HBC and the valve kit is 15 meters .
The maximum allowable piping length between the indoor unit and the valve kit is 5 meters.

Product Specifications

Indoor Units



| 4-Way Air Flow Type (without Flow Control Valve) | | | | | | | | | | | |
|--|--|--------------------------------|--|---|--|---|--|---|--|---|--|
| Indoor Unit | | | | PLFY-WL63VEM-E | | PLFY-WL80VEM-E | | PLFY-WL100VEM-E | | PLFY-WL125VEM-E | |
| Power Source | | | | 1-phase 220-240 V 50 Hz, 1-phase 220V 60 Hz | | | | | | | |
| Cooling Capacity [Nominal]* ¹ | | kW | | 7.1 | | 9.0 | | 11.2 | | 14.0 | |
| | | kW | | 0.04 | | 0.05 | | 0.08 | | 0.11 | |
| | | A | | 0.40 | | 0.46 | | 0.66 | | 1.05 | |
| Heating Capacity [Nominal]* ² | | kW | | 8.0 | | 10.0 | | 12.5 | | 16.0 | |
| | | kW | | 0.04 | | 0.05 | | 0.08 | | 0.11 | |
| | | A | | 0.34 | | 0.40 | | 0.60 | | 0.99 | |
| External Finish | | | | Galvanized steel sheet | | Galvanized steel sheet | | Galvanized steel sheet | | Galvanized steel sheet | |
| External Dimension H x W x D | | | | mm | | 298 × 840 × 840 | | 298 × 840 × 840 | | 298 × 840 × 840 | |
| Net Weight | | | | kg | | 23 | | 23 | | 25 | |
| Decoration Panel | | Model | | PLP-6EA | | PLP-6EA | | PLP-6EA | | PLP-6EA | |
| | | External Finish | | MUNSELL (1.0Y 9.2/0.2) | | MUNSELL (1.0Y 9.2/0.2) | | MUNSELL (1.0Y 9.2/0.2) | | MUNSELL (1.0Y 9.2/0.2) | |
| | | Dimension H x W x D | | mm | | 40 x 950 x 950 | | 40 x 950 x 950 | | 40 x 950 x 950 | |
| | | Net Weight | | kg | | 5 | | 5 | | 5 | |
| Heat Exchanger | | | | Cross fin (Aluminum fin and copper tube) | | | | | | | |
| Water Volume | | | | L | | 2.1 | | 2.2 | | 3.1 | |
| Fan | | Type x Quantity | | Turbo Fan × 1 | | Turbo Fan × 1 | | Turbo Fan × 1 | | Turbo Fan × 1 | |
| | | External Static Press. | | Pa | | 0 | | 0 | | 0 | |
| | | Motor Type | | DC motor | | DC motor | | DC motor | | DC motor | |
| | | Motor Output | | kW | | 0.120 | | 0.120 | | 0.120 | |
| | | Driving Mechanism | | Direct-driven by motor | | Direct-driven by motor | | Direct-driven by motor | | Direct-driven by motor | |
| | | Air Flow Rate | | L/S | | (Low-Mid2-Mid1-High) 250 - 283 - 317 - 350 | | (Low-Mid2-Mid1-High) 250 - 300 - 350 - 383 | | (Low-Mid2-Mid1-High) 317 - 383 - 433 - 500 | |
| Sound Pressure Level (Measured in Anechoic Room) | | | | dB <A> | | (Low-Mid2-Mid1-High) 27 - 29 - 31 - 33 | | (Low-Mid2-Mid1-High) 27 - 30 - 33 - 35 | | (Low-Mid2-Mid1-High) 31 - 35 - 37 - 40 | |
| Insulation Material | | | | PS | | PS | | PS | | PS | |
| Air Filter | | | | PP honeycomb | | PP honeycomb | | PP honeycomb | | PP honeycomb | |
| Protection Device | | | | Fuse | | Fuse | | Fuse | | Fuse | |
| Connectable Outdoor Unit/HBC Controller | | | | HYBRID CITY MULTI/CMB-WM-V-AA, CMB-WM-V-AB | | | | | | | |
| Diameter of Water Pipe* ^{3,4} | | Connection Size | | mm O.D | | 22 | | 22 | | 22 | |
| | | Outlet | | mm O.D | | 22 | | 22 | | 22 | |
| | | Field Pipe Inlet | | mm I.D | | 30 | | 30 | | 30 | |
| | | Outlet | | mm I.D | | 30 | | 30 | | 30 | |
| Field Drain Pipe Size | | | | mm (in.) | | O.D.32 (1-1/4) | | O.D.32 (1-1/4) | | O.D.32 (1-1/4) | |
| Optional Parts | | Decoration Panel* ⁵ | | PLP-6EA/PLP-6EAE/ PLP-6EAL/PLP-6EAL | | PLP-6EA/PLP-6EAE/ PLP-6EAL/PLP-6EAL | | PLP-6EA/PLP-6EAE/ PLP-6EAL/PLP-6EAL | | PLP-6EA/PLP-6EAE/ PLP-6EAL/PLP-6EAL | |
| | | 3D i-See Sensor Corner Panel | | PAC-SE1ME-E | | PAC-SE1ME-E | | PAC-SE1ME-E | | PAC-SE1ME-E | |
| | | Wireless Signal Receiver | | PAR-SE9FA-E | | PAR-SE9FA-E | | PAR-SE9FA-E | | PAR-SE9FA-E | |
| | | Valve Kit* ⁶ | | PAC-SK35VK-E | | PAC-SK35VK-E | | PAC-SK35VK-E | | PAC-SK35VK-E | |
| | | 6m Lead Wire | | PAC-SK40LW-E | | PAC-SK40LW-E | | PAC-SK40LW-E | | PAC-SK40LW-E | |
| | | Attachment Plates | | PAC-SK39AP-E | | PAC-SK39AP-E | | PAC-SK39AP-E | | PAC-SK39AP-E | |

Notes:

*1 Nominal cooling conditions

Indoor: 27°CDB./19°CWB. (81°FDB./66 °FWB.), Outdoor: 35°CDB. (95°FDB.)

Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

*2 Nominal heating conditions

Indoor: 20°CDB. (68°FDB.), Outdoor: 7°CDB./6°CWB. (45°FDB./43°FWB.)

Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

*3 Be sure to install a valve on the water outlet.

*4 Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.

*5 PLFY-WL-VEM-E should be used together with Decoration panel.

*6 Certain restrictions apply to indoor unit combinations.

Refer to the section on the valve kit in the chapter "OPTIONAL PARTS" in the DATA BOOK for the restrictions.

When the valve kit is installed farther away from the HBC than the distance between the HBC and the WL-model indoor unit, the maximum allowable height difference between the HBC and the valve kit is 15 meters .

The maximum allowable piping length between the indoor unit and the valve kit is 5 meters.



| 2 x 2 Cassette Type (without Flow Control Valve) | | | | | | | | | | |
|--|--------------------------------|-------------------|------------------------|---|-----------------------------------|--------------------------------|-----------------------------------|--------------------------------|-----------------------------------|--|
| Indoor Unit | | | | PLFY-WL10VFM-E | | PLFY-WL15VFM-E | | PLFY-WL20VFM-E | | |
| Power Source | | | | 1-phase 220-240 V 50 Hz, 1-phase 220V 60 Hz | | | | | | |
| Cooling Capacity [Nominal]* ¹ | | kW | | 1.2 | | 1.7 | | 2.2 | | |
| | | kW | | 0.02 | | 0.02 | | 0.02 | | |
| | | A | | 0.23 | | 0.24 | | 0.26 | | |
| Heating Capacity [Nominal]* ² | | kW | | 1.4 | | 1.9 | | 2.5 | | |
| | | kW | | 0.02 | | 0.02 | | 0.02 | | |
| | | A | | 0.17 | | 0.18 | | 0.20 | | |
| External Finish | | | | Galvanized steel sheet | | Galvanized steel sheet | | Galvanized steel sheet | | |
| External Dimension H x W x D | | mm | | 208 × 570 × 570 | | 208 × 570 × 570 | | 208 × 570 × 570 | | |
| Net Weight | | kg | | 13 | | 13 | | 14 | | |
| Decoration Panel | Model | | | | SLP-2FA(L)(E) | | SLP-2FA(L)(E) | | SLP-2FA(L)(E) | |
| | External Finish | | | | MUNSELL (1.0Y 9.2/0.2) | | MUNSELL (1.0Y 9.2/0.2) | | MUNSELL (1.0Y 9.2/0.2) | |
| | Dimension H x W x D | mm | 10 x 625 x 625 | | 10 x 625 x 625 | | 10 x 625 x 625 | | 10 x 625 x 625 | |
| | Net Weight | kg | 3 | | 3 | | 3 | | 3 | |
| Heat Exchanger | | | | Cross fin (Aluminum fin and copper tube) | | | | | | |
| Water Volume | | L | | 0.5 | | 0.5 | | 0.9 | | |
| Fan | Type x Quantity | | | | Turbo Fan × 1 | | Turbo Fan × 1 | | Turbo Fan × 1 | |
| | External Static Press. | Pa | 0 | | 0 | | 0 | | 0 | |
| | Motor Type | | DC motor | | DC motor | | DC motor | | DC motor | |
| | Motor Output | | kW | | 0.050 | | 0.050 | | 0.050 | |
| | Driving Mechanism | | Direct-driven by motor | | Direct-driven by motor | | Direct-driven by motor | | Direct-driven by motor | |
| | Air Flow Rate | | L/S | | 100 - 108 - 117 (Low-Mid-High) | | 100 - 117 - 133 (Low-Mid-High) | | 108 - 117 - 133 (Low-Mid-High) | |
| Sound Pressure Level (Measured in Anechoic Room) | | dB <A> | | 25 - 26 - 27 (Low-Mid-High) | | 25 - 26 - 29 (Low-Mid-High) | | 27 - 29 - 31 (Low-Mid-High) | | |
| Insulation Material | | | | PS | | PS | | PS | | |
| Air Filter | | | | PP honeycomb | | PP honeycomb | | PP honeycomb | | |
| Protection Device | | | | Fuse | | Fuse | | Fuse | | |
| Connectable Outdoor Unit/HBC Controller | | | | HYBRID CITY MULTI/CMB-WM-V-AA, CMB-WM-V-AB | | | | | | |
| Diameter of Water Pipe* ^{3,4} | Connection Size | Inlet | mm O.D | 22 | | 22 | | 22 | | |
| | | Outlet | mm O.D | 22 | | 22 | | 22 | | |
| | Field Pipe Size | Inlet | mm I.D | 20 | | 20 | | 20 | | |
| | | Outlet | mm I.D | 20 | | 20 | | 20 | | |
| Field Drain Pipe Size | | | mm (in.) | O.D.32 (1-1/4) | | O.D.32 (1-1/4) | | O.D.32 (1-1/4) | | |
| Optional Parts | Decoration Panel* ⁵ | | | SLP-2FA/SLP-2FAE/SLP-2FAL/SLP-2FALE | | | | | | |
| | 3D i-See Sensor Corner Panel | | | PAC-SF1ME-E | | PAC-SF1ME-E | | PAC-SF1ME-E | | |
| | Wireless Signal Receiver | | | PAR-SF9FA-E | | PAR-SF9FA-E | | PAR-SF9FA-E | | |
| | Valve Kit* ⁶ | | | PAC-SK35VK-E | | PAC-SK35VK-E | | PAC-SK35VK-E | | |
| | 6m Lead Wire | PAC-SK40LW-E | | PAC-SK40LW-E | | PAC-SK40LW-E | | PAC-SK40LW-E | | |
| | | Attachment Plates | | PAC-SK39AP-E | | PAC-SK39AP-E | | PAC-SK39AP-E | | |

Notes:

- *1 Nominal cooling conditions
Indoor: 27°CDB./19°CWB. (81°FDB./66°FWB.), Outdoor: 35°CDB. (95°FDB.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- *2 Nominal heating conditions
Indoor: 20°CDB. (68°FDB.), Outdoor: 7°CDB./6°CWB. (45°FDB./43°FWB.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- *3 Be sure to install a valve on the water outlet.
- *4 Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.
- *5 PLFY-WL-VFM-E should be used together with Decoration panel.
- *6 Certain restrictions apply to indoor unit combinations.
Refer to the section on the valve kit in the chapter "OPTIONAL PARTS" in the DATA BOOK for the restrictions.
When the valve kit is installed farther away from the HBC than the distance between the HBC and the WL-model indoor unit, the maximum allowable height difference between the HBC and the valve kit is 15 meters.
The maximum allowable piping length between the indoor unit and the valve kit is 5 meters.

Product Specifications

Indoor Units



| 2 x 2 Cassette Type (without Flow Control Valve) | | | | | | | | | |
|--|--|--------------------------------|--|---|--|-----------------------------------|--|-----------------------------------|--|
| Indoor Unit | | | | PLFY-WL25VFM-E | | PLFY-WL32VFM-E | | PLFY-WL40VFM-E | |
| Power Source | | | | 1-phase 220-240 V 50 Hz, 1-phase 220V 60 Hz | | | | | |
| Cooling Capacity [Nominal]* ¹ | | kW | | 2.8 | | 3.6 | | 4.5 | |
| | | Power Input kW | | 0.03 | | 0.04 | | 0.05 | |
| | | Current Input A | | 0.29 | | 0.38 | | 0.46 | |
| Heating Capacity [Nominal]* ² | | kW | | 3.2 | | 4.0 | | 5.0 | |
| | | Power Input kW | | 0.03 | | 0.04 | | 0.05 | |
| | | Current Input A | | 0.23 | | 0.32 | | 0.40 | |
| External Finish | | | | Galvanized steel sheet | | Galvanized steel sheet | | Galvanized steel sheet | |
| External Dimension H x W x D | | | | mm 208 × 570 × 570 | | 208 × 570 × 570 | | 208 × 570 × 570 | |
| Net Weight | | | | kg 14 | | 14 | | 14 | |
| Decoration Panel | | Model | | SLP-2FA(L)(E) | | SLP-2FA(L)(E) | | SLP-2FA(L)(E) | |
| | | External Finish | | MUNSELL (1.0Y 9.2/0.2) | | MUNSELL (1.0Y 9.2/0.2) | | MUNSELL (1.0Y 9.2/0.2) | |
| | | Dimension H x W x D | | mm 10 x 625 x 625 | | 10 x 625 x 625 | | 10 x 625 x 625 | |
| | | Net Weight | | kg 3 | | 3 | | 3 | |
| Heat Exchanger | | | | Cross fin (Aluminum fin and copper tube) | | | | | |
| Water Volume | | | | L 0.9 | | 0.9 | | 0.9 | |
| Fan | | Type x Quantity | | Turbo Fan × 1 | | Turbo Fan × 1 | | Turbo Fan × 1 | |
| | | External Static Press. | | Pa 0 | | 0 | | 0 | |
| | | Motor Type | | DC motor | | DC motor | | DC motor | |
| | | Motor Output | | kW 0.050 | | 0.050 | | 0.050 | |
| | | Driving Mechanism | | Direct-driven by motor | | Direct-driven by motor | | Direct-driven by motor | |
| | | Air Flow Rate | | (Low-Mid-High) 108 - 125 - 150 | | (Low-Mid-High) 108 - 150 - 200 | | (Low-Mid-High) 108 - 192 - 217 | |
| Sound Pressure Level (Measured in Anechoic Room) | | | | (Low-Mid-High) 27 - 30 - 34 | | (Low-Mid-High) 27 - 33 - 41 | | (Low-Mid-High) 27 - 40 - 43 | |
| Insulation Material | | | | PS | | PS | | PS | |
| Air Filter | | | | PP honeycomb | | PP honeycomb | | PP honeycomb | |
| Protection Device | | | | Fuse | | Fuse | | Fuse | |
| Connectable Outdoor Unit/HBC Controller | | | | HYBRID CITY MULTI/CMB-WM-V-AA, CMB-WM-V-AB | | | | | |
| Diameter of Water Pipe* ^{3,4} | | Connection Size | | Inlet 22 | | 22 | | 22 | |
| | | Outlet | | mm O.D 22 | | 22 | | 22 | |
| | | Field Pipe Inlet | | mm I.D 20 | | 20 | | 20 | |
| | | Outlet | | mm I.D 20 | | 20 | | 20 | |
| Field Drain Pipe Size | | | | mm (in.) O.D.32 (1-1/4) | | O.D.32 (1-1/4) | | O.D.32 (1-1/4) | |
| Optional Parts | | Decoration Panel* ⁵ | | SLP-2FA/SLP-2FAE/SLP-2FAL/SLP-2FALE | | | | | |
| | | 3D i-See Sensor Corner Panel | | PAC-SF1ME-E | | PAC-SF1ME-E | | PAC-SF1ME-E | |
| | | Wireless Signal Receiver | | PAR-SF9FA-E | | PAR-SF9FA-E | | PAR-SF9FA-E | |
| | | Valve Kit* ⁶ | | PAC-SK35VK-E | | PAC-SK35VK-E | | PAC-SK35VK-E | |
| | | 6m Lead Wire | | PAC-SK40LW-E | | PAC-SK40LW-E | | PAC-SK40LW-E | |
| | | Attachment Plates | | PAC-SK39AP-E | | PAC-SK39AP-E | | PAC-SK39AP-E | |

Notes:

- *1 Nominal cooling conditions
Indoor: 27°CDB./19°CWB. (81°FDB./66°FWB.), Outdoor: 35°CDB. (95°FDB.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- *2 Nominal heating conditions
Indoor: 20°CDB. (68°FDB.), Outdoor: 7°CDB./6°CWB. (45°FDB./43°FWB.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- *3 Be sure to install a valve on the water outlet.
- *4 Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.
- *5 PLFY-WL-VFM-E should be used together with Decoration panel.
- *6 Certain restrictions apply to indoor unit combinations.
Refer to the section on the valve kit in the chapter "OPTIONAL PARTS" in the DATA BOOK for the restrictions.
When the valve kit is installed farther away from the HBC than the distance between the HBC and the WL-model indoor unit, the maximum allowable height difference between the HBC and the valve kit is 15 meters.
The maximum allowable piping length between the indoor unit and the valve kit is 5 meters.



| Floor Standing Concealed Type (without Flow Control Valve) | | | | | | |
|--|--------------------------------------|----|--|---|--|------------------|
| Indoor Unit | | | PFFY-WP20VLRMM-E | PFFY-WP25VLRMM-E | PFFY-WP32VLRMM-E | |
| Power Source | | | 1-phase 220-230-240 V 50/60 Hz | 1-phase 220-230-240 V 50/60 Hz | 1-phase 220-230-240 V 50/60 Hz | |
| Cooling Capacity [Nominal]* ¹ | kW | | 2.2 | 2.8 | 3.6 | |
| | Power Input* ² | kW | 0.040 | 0.040 | 0.050 | |
| | Current Input* ² | A | 0.35 | 0.35 | 0.47 | |
| Heating Capacity [Nominal]* ³ | kW | | 2.5 | 3.2 | 4.0 | |
| | Power Input* ² | kW | 0.040 | 0.040 | 0.050 | |
| | Current Input* ² | A | 0.35 | 0.35 | 0.47 | |
| External Finish | | | Galvanized steel plate | Galvanized steel plate | Galvanized steel plate | |
| External Dimension H x W x D | | | mm 639 x 886 x 220 | 639 x 1,006 x 220 | 639 x 1,006 x 220 | |
| Net Weight | | | kg 22 | 25 | 25 | |
| Heat Exchanger | | | Cross fin (Aluminum fin and copper tube) | Cross fin (Aluminum fin and copper tube) | Cross fin (Aluminum fin and copper tube) | |
| | | | L 0.9 | 1.3 | 1.3 | |
| Fan | Type x Quantity | | Sirocco fan x 1 | Sirocco fan x 2 | Sirocco fan x 2 | |
| | External Static Press.* ⁴ | Pa | 20 - <40> - <60> | 20 - <40> - <60> | 20 - <40> - <60> | |
| | Motor Type | | DC motor | DC motor | DC motor | |
| | Motor Output | kW | 0.096 | 0.096 | 0.096 | |
| | Driving Mechanism | | Direct-driven by motor | Direct-driven by motor | Direct-driven by motor | |
| | Air Flow Rate | | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) | |
| | | | m ³ /min | 4.5 - 5.0 - 6.0 | 6.0 - 7.0 - 8.0 | 7.5 - 9.0 - 10.5 |
| | | | L/S | 75 - 83 - 100 | 100 - 117 - 133 | 125 - 150 - 175 |
| Sound Pressure Level (Measured in Anechoic Room)* ² | | | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) | |
| Insulation Material | | | 31 - 33 - 38 | 31 - 33 - 38 | 31 - 35 - 38 | |
| Air Filter | | | Polyethylene foam, Urethane foam | Polyethylene foam, Urethane foam | Polyethylene foam, Urethane foam | |
| Protection Device | | | PP honeycomb fabric | PP honeycomb fabric | PP honeycomb fabric | |
| Connectable HBC Controller | | | Fuse | Fuse | Fuse | |
| Water Piping Diameter* ^{5,6} | | | CMB-WM-V-AA, CMB-WM-V-AB | CMB-WM-V-AA, CMB-WM-V-AB | CMB-WM-V-AA, CMB-WM-V-AB | |
| Field Drain Pipe Size | | | Inlet | Rc 3/4 screw | Rc 3/4 screw | |
| | | | Outlet | Rc 3/4 screw | Rc 3/4 screw | |
| Standard Attachment | | | mm (in.) | I.D.26 (1) <Accessory hose O.D.27 (1-3/32) (top end: O.D.20 (13/16))> | | |
| Accessory | | | Insulation pipe for water pipe, drain hose (flexible joint), screw plate, level adjusting screw, hose band | | | |

| Indoor Unit | | | PFFY-WP40VLRMM-E | PFFY-WP50VLRMM-E |
|--|--------------------------------------|---------------------|--|--|
| Power Source | | | 1-phase 220-230-240 V 50/60 Hz | 1-phase 220-230-240 V 50/60 Hz |
| Cooling Capacity [Nominal]* ¹ | | kW | 4.5 | 5.6 |
| | Power Input* ² | kW | 0.050 | 0.070 |
| | Current Input* ² | A | 0.47 | 0.65 |
| Heating Capacity [Nominal]* ³ | | kW | 5.0 | 6.3 |
| | Power Input* ² | kW | 0.050 | 0.070 |
| | Current Input* ² | A | 0.47 | 0.65 |
| External Finish | | | Galvanized steel plate | Galvanized steel plate |
| External Dimension H x W x D | | mm | 639 x 1,246 x 220 | 639 x 1,246 x 220 |
| Net Weight | | kg | 29 | 29 |
| Heat Exchanger | | | Cross fin (Aluminum fin and copper tube) | Cross fin (Aluminum fin and copper tube) |
| Fan | Water Volume | L | 1.5 | 1.5 |
| | Type x Quantity | | Sirocco fan x 2 | Sirocco fan x 2 |
| | External Static Press.* ⁴ | Pa | 20 - <40> - <60> | 20 - <40> - <60> |
| | Motor Type | | DC motor | DC motor |
| | Motor Output | | 0.096 | 0.096 |
| | Driving Mechanism | | Direct-driven by motor | Direct-driven by motor |
| | Air Flow Rate | | (Low-Mid-High) | (Low-Mid-High) |
| | | m ³ /min | 8.0 - 10.0 - 11.5 | 10.5 - 13.0 - 15.0 |
| Sound Pressure Level (Measured in Anechoic Room)* ² | | | 133 - 167 - 192 | 175 - 217 - 250 |
| | | L/S | (Low-Mid-High) | (Low-Mid-High) |
| | | | 34 - 37 - 40 | 37 - 42 - 45 |
| Insulation Material | | | Polyethylene foam, Urethane foam | Polyethylene foam, Urethane foam |
| Air Filter | | | PP honeycomb fabric | PP honeycomb fabric |
| Protection Device | | | Fuse | Fuse |
| Connectable HBC Controller | | | CMB-WM-V-AA, CMB-WM-V-AB | CMB-WM-V-AA, CMB-WM-V-AB |
| Water Piping Diameter* ^{5,6} | Inlet | in. | Rc 3/4 screw | Rc 3/4 screw |
| | Outlet | in. | Rc 3/4 screw | Rc 3/4 screw |
| Field Drain Pipe Size | | | I.D.26 (1) <Accessory hose O.D.27 (1-3/32) (top end: O.D.20 (13/16))> | |
| Standard Attachment | Accessory | | Insulation pipe for water pipe, drain hose (flexible joint), screw plate, level adjusting screw, hose band | |

Notes:

*1 Nominal cooling conditions

Indoor: 27°CDB./19°CWB., Outdoor: 35°CDB.

Pipe length: 7.5 m, Level difference: 0 m.

*2 The values are measured at the factory setting of external static pressure.

*3 Nominal heating conditions

Indoor: 20°CDB., Outdoor: 7°CDB./6°CWB.

Pipe length: 7.5 m, Level difference: 0 m.

*4 The factory setting of external static pressure is shown without < >.

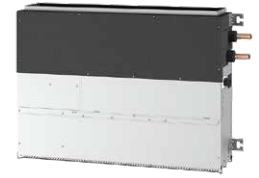
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.

*5 Be sure to install a valve on the water outlet.

*6 Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.

Product Specifications

Indoor Units



| Floor Standing Concealed Type (without Flow Control Valve) | | | | | |
|--|--------------------------------------|----------------------------|---|--|--|
| Indoor Unit | | | PFFY-W20VCM-A | PFFY-W25VCM-A | PFFY-W32VCM-A |
| Power Source | | | 1-phase 220-230-240 V 50/60 Hz | 1-phase 220-230-240 V 50/60 Hz | 1-phase 220-230-240 V 50/60 Hz |
| Cooling Capacity [Nominal]* ¹ | kW | | 2.2 | 2.8 | 3.6 |
| | Power Input* ² | kW | 0.022 | 0.029 | 0.035 |
| | Current Input* ² | A | 0.25 | 0.33 | 0.38 |
| Heating Capacity [Nominal]* ³ | kW | | 2.5 | 3.2 | 4.0 |
| | Power Input* ² | kW | 0.022 | 0.029 | 0.035 |
| | Current Input* ² | A | 0.25 | 0.33 | 0.38 |
| External Finish | | | Galvanized steel plate | Galvanized steel plate | Galvanized steel plate |
| External Dimension H x W x D* ⁴ | | | 615 (690) x 700 x 200 | 615 (690) x 700 x 200 | 615 (690) x 700 x 200 |
| Net Weight | | | 18.5 | 18.5 | 19 |
| Heat Exchanger | | | Cross fin (Aluminum fin and copper tube) | Cross fin (Aluminum fin and copper tube) | Cross fin (Aluminum fin and copper tube) |
| Fan | Water Volume | L | 0.8 | 0.8 | 1.0 |
| | Type x Quantity | | Sirocco fan x 2 | Sirocco fan x 2 | Sirocco fan x 2 |
| | External Static Press.* ⁵ | Pa | <0> - 10 - <40> - <60> | <0> - 10 - <40> - <60> | <0> - 10 - <40> - <60> |
| | Motor Type | | DC motor | DC motor | DC motor |
| | Motor Output | kW | 0.096 | 0.096 | 0.096 |
| | Driving Mechanism | | Direct-driven by motor | Direct-driven by motor | Direct-driven by motor |
| | Air Flow Rate | | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) |
| | | m ³ /min L/S | 5.0 - 6.0 - 7.0 83 - 100 - 117 | 5.5 - 7.0 - 8.5 92 - 117 - 142 | 6.5 - 7.5 - 9.0 108 - 125 - 150 |
| Sound Pressure Level (Measured in Anechoic Room)* ² | | | (Low-Mid-High) 21 - 23 - 26 | (Low-Mid-High) 22 - 26 - 30 | (Low-Mid-High) 25 - 28 - 32 |
| Insulation Material | | | Polystyrene foam, Polyethylene foam, Urethane foam | | |
| Air Filter | | | PP honeycomb fabric. | PP honeycomb fabric. | PP honeycomb fabric. |
| Protection Device | | | Fuse | Fuse | Fuse |
| Connectable Outdoor Unit/HBC Controller/Hydro Unit | | | Hybrid City Multi/CMB-WM-V-AA, CMB-WM-V-AB/CMH-WM-V-A | | |
| Water Piping Diameter* ^{6,7} | Inlet | mm I.D. | 20 | 20 | 20 |
| | Outlet | mm I.D. | 20 | 20 | 20 |
| Field Drain Pipe Size | | | O.D.32 (1-1/4) | O.D.32 (1-1/4) | O.D.32 (1-1/4) |
| Standard Attachment | Accessory | | Washer, drain hose, tie band, leg, screw | Washer, drain hose, tie band, leg, screw | Washer, drain hose, tie band, leg, screw |

| Indoor Unit | | | PFFY-W40VCM-A | PFFY-W50VCM-A |
|---|--------------------------------------|----------------------------|---|--|
| Power Source | | | 1-phase 220-230-240 V 50/60 Hz | 1-phase 220-230-240 V 50/60 Hz |
| Cooling Capacity [Nominal]* ¹ | kW | | 4.5 | 5.6 |
| | Power Input* ² | kW | 0.038 | 0.062 |
| | Current Input* ² | A | 0.38 | 0.52 |
| Heating Capacity [Nominal]* ³ | kW | | 5.0 | 6.3 |
| | Power Input* ² | kW | 0.038 | 0.062 |
| | Current Input* ² | A | 0.38 | 0.52 |
| External Finish | | | Galvanized steel plate | Galvanized steel plate |
| External Dimension H × W × D* ⁴ | | mm | 615 (690) × 900 × 200 | 615 (690) × 900 × 200 |
| Net Weight | | kg | 23 | 23 |
| Heat Exchanger | | | Cross fin (Aluminum fin and copper tube) | Cross fin (Aluminum fin and copper tube) |
| Fan | Water Volume | L | 1.3 | 1.3 |
| | Type x Quantity | | Sirocco fan × 3 | Sirocco fan × 3 |
| | External Static Press.* ⁵ | Pa | <0> - 10 - <40> - <60> | <0> - 10 - <40> - <60> |
| | Motor Type | | DC motor | DC motor |
| | Motor Output | kW | 0.096 | 0.096 |
| | Driving Mechanism | | Direct-driven by motor | Direct-driven by motor |
| | Air Flow Rate | | (Low-Mid-High) | (Low-Mid-High) |
| | | m ³ /min L/S | 8.0 - 9.5 - 11.0 133 - 158 - 183 | 10.5 - 12.5 - 14.5 175 - 208 - 242 |
| Sound Pressure Level (Measured in Anechoic Room)* ² | | | (Low-Mid-High) 25 - 27 - 30 | (Low-Mid-High) 28 - 32 - 35 |
| Insulation Material | | | Polystyrene foam, Polyethylene foam, Urethane foam | |
| Air Filter | | | PP honeycomb fabric. | PP honeycomb fabric. |
| Protection Device | | | Fuse | Fuse |
| Connectable Outdoor Unit/HBC Controller/ Hydro Unit | | | Hybrid City Multi/CMB-WM-V-AA, CMB-WM-V-AB/CMH-WM-V-A | |
| Water Piping Diameter* ^{6,7} | Inlet | mm I.D. | 20 | 20 |
| | Outlet | mm I.D. | 20 | 20 |
| Field Drain Pipe Size | | | O.D.32 (1-1/4) | O.D.32 (1-1/4) |
| Standard Attachment | Accessory | | Washer, drain hose, tie band, leg, screw | Washer, drain hose, tie band, leg, screw |

Notes:

- *1 Nominal cooling conditions
Indoor: 27°CDB./19°CWB., Outdoor: 35°CDB.
Pipe length: 7.5 m, Level difference: 0 m.
- *2 The values are measured at the factory setting of external static pressure.
- *3 Nominal heating conditions
Indoor: 20°CDB., Outdoor: 7°CDB./6°CWB.
Pipe length: 7.5 m, Level difference: 0 m.
- *4 The values in () show the height of unit with leg.
- *5 The factory setting of external static pressure is shown without < > .
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.
- *6 Be sure to install a valve on the water inlet/outlet.
- *7 Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.



Wall-Mounted Type (without Flow Control Valve)

| Indoor Unit | | | PKFY-WL10VLM-E | PKFY-WL15VLM-E | PKFY-WL20VLM-E |
|--|-------------------------|----------|---|---|---|
| Power Source | | | 1-phase 220-240 V 50Hz, 1-phase 220V 60Hz | 1-phase 220-240 V 50Hz, 1-phase 220V 60Hz | 1-phase 220-240 V 50Hz, 1-phase 220V 60Hz |
| Cooling Capacity [Nominal]* ¹ | | kW | 1.2 | 1.7 | 2.2 |
| | Power Input | kW | 0.02 | 0.02 | 0.03 |
| | Current Input | A | 0.20 | 0.20 | 0.25 |
| Heating Capacity [Nominal]* ² | | kW | 1.4 | 1.9 | 2.5 |
| | Power Input | kW | 0.01 | 0.01 | 0.02 |
| | Current Input | A | 0.15 | 0.15 | 0.20 |
| External Finish (Munsell No.) | | | Plastic (0.7PB 9.2/0.4) | Plastic (0.7PB 9.2/0.4) | Plastic (0.7PB 9.2/0.4) |
| External Dimension H × W × D | | | 299 × 773 × 237 | 299 × 773 × 237 | 299 × 773 × 237 |
| Net Weight | | | 11 | 11 | 11 |
| Heat Exchanger | | | Cross-fin (Aluminum fin and copper tube) | Cross-fin (Aluminum fin and copper tube) | Cross-fin (Aluminum fin and copper tube) |
| Fan | Water Volume | L | 0.6 | 0.6 | 0.7 |
| | Type x Quantity | | Line flow fan x 1 | Line flow fan x 1 | Line flow fan x 1 |
| | External Static Press. | Pa | 0 | 0 | 0 |
| | Motor Type | | DC motor | DC motor | DC motor |
| | Motor Output | kW | 0.030 | 0.030 | 0.030 |
| | Driving Mechanism | | Direct-drive | Direct-drive | Direct-drive |
| | Air Flow Rate | | (Low-Mid2-Mid1-High) | (Low-Mid2-Mid1-High) | (Low-Mid2-Mid1-High) |
| | | | 3.3 - 3.8 - 4.1 - 4.5 | 3.3 - 3.8 - 4.3 - 4.9 | 4.0 - 5.0 - 6.0 - 7.0 |
| | | | 55 - 63 - 68 - 75 | 55 - 63 - 72 - 82 | 67 - 83 - 100 - 117 |
| Sound Pressure Level (Measured in Anechoic Room) | | | (Low-Mid2-Mid1-High) | (Low-Mid2-Mid1-High) | (Low-Mid2-Mid1-High) |
| | | | 22 - 26 - 28 - 30 | 22 - 26 - 29 - 32 | 22 - 28 - 33 - 36 |
| Insulation Material | | | Polyethylene sheet | Polyethylene sheet | Polyethylene sheet |
| Air Filter | | | PP Honeycomb | PP Honeycomb | PP Honeycomb |
| Protection Device | | | Fuse | Fuse | Fuse |
| Connectable Outdoor Unit/HBC Controller/Hydro Unit | | | Hybrid City Multi/CMB-WM-V-AA, CMB-WM-V-AB/CMH-WM-V-A | | |
| Diameter of Water Pipe* ^{3,4} | Inlet | mm (in.) | Rc 3/4 screw | Rc 3/4 screw | Rc 3/4 screw |
| | Outlet | mm (in.) | Rc 3/4 screw | Rc 3/4 screw | Rc 3/4 screw |
| Field Drain Pipe Size | | | I.D.16 (5/8) | I.D.16 (5/8) | I.D.16 (5/8) |
| Optional Parts | Drain Pump Kit | | PAC-SK01DM-E | PAC-SK01DM-E | PAC-SK01DM-E |
| | Valve Kit* ⁵ | | PAC-SK04VK-E | PAC-SK04VK-E | PAC-SK04VK-E |

| Indoor Unit | | | PKFY-WL25VLM-E | PKFY-WL32VLM-E | PKFY-WL40VLM-E |
|--|-------------------------|----------|---|---|---|
| Power Source | | | 1-phase 220-240 V 50Hz, 1-phase 220V 60Hz | 1-phase 220-240 V 50Hz, 1-phase 220V 60Hz | 1-phase 220-240 V 50Hz, 1-phase 220V 60Hz |
| Cooling Capacity [Nominal]* ¹ | | kW | 2.8 | 3.6 | 4.5 |
| | Power Input | kW | 0.04 | 0.04 | 0.05 |
| | Current Input | A | 0.35 | 0.35 | 0.45 |
| Heating Capacity [Nominal]* ² | | kW | 3.2 | 4.0 | 5.0 |
| | Power Input | kW | 0.03 | 0.03 | 0.04 |
| | Current Input | A | 0.30 | 0.30 | 0.40 |
| External Finish (Munsell No.) | | | Plastic (0.7PB 9.2/0.4) | Plastic (0.7PB 9.2/0.4) | Plastic (0.7PB 9.2/0.4) |
| External Dimension H × W × D | | | 299 × 773 × 237 | 299 × 898 × 237 | 299 × 898 × 237 |
| Net Weight | | | 11 | 13 | 13 |
| Heat Exchanger | | | Cross-fin (Aluminum fin and copper tube) | Cross-fin (Aluminum fin and copper tube) | Cross-fin (Aluminum fin and copper tube) |
| Fan | Water Volume | L | 0.7 | 1.0 | 1.1 |
| | Type x Quantity | | Line flow fan x 1 | Line flow fan x 1 | Line flow fan x 1 |
| | External Static Press. | Pa | 0 | 0 | 0 |
| | Motor Type | | DC motor | DC motor | DC motor |
| | Motor Output | kW | 0.030 | 0.030 | 0.030 |
| | Driving Mechanism | | Direct-drive | Direct-drive | Direct-drive |
| | Air Flow Rate | | (Low-Mid2-Mid1-High) | (Low-Mid2-Mid1-High) | (Low-Mid2-Mid1-High) |
| | | | 4.0 - 5.4 - 7.0 - 8.4 | 6.3 - 7.6 - 9.0 - 10.4 | 6.4 - 8.2 - 10.0 - 11.9 |
| | | | 67 - 90 - 117 - 140 | 105 - 127 - 150 - 173 | 107 - 137 - 167 - 198 |
| Sound Pressure Level (Measured in Anechoic Room) | | | (Low-Mid2-Mid1-High) | (Low-Mid2-Mid1-High) | (Low-Mid2-Mid1-High) |
| | | | 22 - 30 - 36 - 41 | 29 - 34 - 38 - 41 | 30 - 36 - 41 - 45 |
| Insulation Material | | | Polyethylene sheet | Polyethylene sheet | Polyethylene sheet |
| Air Filter | | | PP Honeycomb | PP Honeycomb | PP Honeycomb |
| Protection Device | | | Fuse | Fuse | Fuse |
| Connectable Outdoor Unit/HBC Controller/Hydro Unit | | | Hybrid City Multi/CMB-WM-V-AA, CMB-WM-V-AB/CMH-WM-V-A | | |
| Diameter of Water Pipe* ^{3,4} | Inlet | mm (in.) | Rc 3/4 screw | Rc 3/4 screw | Rc 3/4 screw |
| | Outlet | mm (in.) | Rc 3/4 screw | Rc 3/4 screw | Rc 3/4 screw |
| Field Drain Pipe Size | | | I.D.16 (5/8) | I.D.16 (5/8) | I.D.16 (5/8) |
| Optional Parts | Drain Pump Kit | | PAC-SK01DM-E | PAC-SK01DM-E | PAC-SK01DM-E |
| | Valve Kit* ⁵ | | PAC-SK04VK-E | PAC-SK04VK-E | PAC-SK04VK-E |

Notes:

*1 Nominal cooling conditions
Indoor: 27°CDB./19°CWB., Outdoor: 35°CDB.
Pipe length: 7.5 m, Level difference: 0 m.

*2 Nominal heating conditions
Indoor: 20°CDB., Outdoor: 7°CDB./6°CWB.
Pipe length: 7.5 m, Level difference: 0 m.

*3 Be sure to install a valve on the water outlet.

*4 Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.

*5 When using the W-type and the WL-type indoor units in the same system, install the Valve kit on all WL-type indoor units.
When the valve kit is installed farther away from the HBC than the distance between the HBC and the WL-model indoor unit, the maximum allowable height difference between the HBC and the valve kit is 15 meters.
The maximum allowable piping length between the indoor unit and the valve kit is 5 meters.

Product Specifications

Indoor Units



| Wall Mounted Type (without Flow Control Valve) | | | | | | | | | |
|--|-------------------------------|--------------|--|--------------|---------------------------------|----------------|---------------------------------|----------------|--|
| Indoor Unit | | | PKFY-WL50VKM-E | | PKFY-WL63VKM-E | | PKFY-WL80VKM-E | | |
| Power Source | | | 1-phase 220-240 V 50 Hz, 1-phase 220 V 60 Hz | | | | | | |
| Cooling Capacity [Nominal]* ¹ | | | 5.6 | | 7.1 | | 9.0 | | |
| | Power Input | kW | 0.04 | | 0.05 | | 0.07 | | |
| | Current Input | A | 0.46 | | 0.56 | | 0.76 | | |
| Heating Capacity [Nominal]* ² | | | 6.3 | | 8.0 | | 10.0 | | |
| | Power Input | kW | 0.04 | | 0.05 | | 0.07 | | |
| | Current Input | A | 0.40 | | 0.50 | | 0.70 | | |
| External Finish (Munsell No.) | | | Plastic, MUNSELL (1.0Y 9.2/0.2) | | Plastic, MUNSELL (1.0Y 9.2/0.2) | | Plastic, MUNSELL (1.0Y 9.2/0.2) | | |
| External Dimension H × W × D | | | mm 365 × 1170 × 295 | | 365 × 1170 × 295 | | 365 × 1170 × 295 | | |
| Net Weight | | | kg 20 | | 20 | | 20 | | |
| Heat Exchanger | | | Cross fin (Aluminum fin and copper tube) | | | | | | |
| Fan | Water Volume | L | 2.0 | | 2.0 | | 2.0 | | |
| | Type x Quantity | | Line flow fan x 1 | | Line flow fan x 1 | | Line flow fan x 1 | | |
| | External Static Press. | Pa | 0 | | 0 | | 0 | | |
| | Motor Type | | DC motor | | DC motor | | DC motor | | |
| | Motor Output | kW | 0.069 | | 0.069 | | 0.069 | | |
| | Driving Mechanism | | Direct-driven by motor | | Direct-driven by motor | | Direct-driven by motor | | |
| | Air Flow Rate | | (Low-High) | | (Low-High) | | (Low-High) | | |
| | | L/S | 300 - 333 | | 300 - 367 | | 300 - 433 | | |
| Sound Pressure Level (Measured in Anechoic Room) | | | (Low-High) | | (Low-High) | | (Low-High) | | |
| | | | dB <A> 39 - 42 | | 39 - 45 | | 39 - 49 | | |
| Insulation Material | | | Polyethylene sheet | | Polyethylene sheet | | Polyethylene sheet | | |
| Air Filter | | | PP Honeycomb | | PP Honeycomb | | PP Honeycomb | | |
| Protection Device | | | Fuse | | Fuse | | Fuse | | |
| Connectable Outdoor Unit/HBC Controller | | | HYBRID CITY MULTI/CMB-WM-V-AA, CMB-WM-V-AB | | | | | | |
| Diameter of Water Pipe* ^{3,4} | Connection Size | Inlet | in. | Rc 3/4 screw | | Rc 1-1/4 screw | | Rc 1-1/4 screw | |
| | | Outlet | in. | Rc 3/4 screw | | Rc 1-1/4 screw | | Rc 1-1/4 screw | |
| | Field Pipe Size | Inlet | mm I.D. | 20 | | 30 | | 30 | |
| | | Outlet | mm I.D. | 20 | | 30 | | 30 | |
| Field Drain Pipe Size | Size | | mm (in.) | I.D.16 (5/8) | | I.D.16 (5/8) | | I.D.16 (5/8) | |
| Optional Parts | Drain Pump Kit | | PAC-SK19DM-E | | PAC-SK19DM-E | | PAC-SK19DM-E | | |
| | Valve Kit* ⁵ | | PAC-SK35VK-E | | PAC-SK35VK-E | | PAC-SK35VK-E | | |
| | 6m Lead Wire Attachment Plate | PAC-SK40LW-E | | PAC-SK40LW-E | | PAC-SK40LW-E | | | |
| | | PAC-SK39AP-E | | PAC-SK39AP-E | | PAC-SK39AP-E | | | |

Notes:

- *1 Nominal cooling conditions
Indoor: 27°CDB./19°CWB. (81°FDB./66°FWB.), Outdoor: 35°CDB. (95°FDB.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- *2 Nominal heating conditions
Indoor: 20°CDB. (68°FDB.), Outdoor: 7°CDB./6°CWB. (45°FDB./43°FWB.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- *3 Be sure to install a valve on the water outlet.
- *4 Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.
- *5 Certain restrictions apply to indoor unit combinations.
Refer to the section on the valve kit in the chapter "OPTIONAL PARTS" in the DATA BOOK for the restrictions.
When the valve kit is installed farther away from the HBC than the distance between the HBC and the WL-model indoor unit, the maximum allowable height difference between the HBC and the valve kit is 15 meters.
The maximum allowable piping length between the indoor unit and the valve kit is 5 meters.



Main HBC

| Main HBC | | | | CMB-WM108V-AA | | CMB-WM1016V-AA | |
|--|--------------------|----------------------------|---|-----------------------|---|-----------------------|-------|
| Number of Branch | | | | 8 | | 16 | |
| Power Source | | | | 1-phase 220-230-240 V | | 1-phase 220-230-240 V | |
| | | | | 50 Hz | 60 Hz | 50 Hz | 60 Hz |
| Power Input (220/230/240) | Cooling | kW | 0.45/0.46/0.47 | | 0.45/0.46/0.47 | | |
| | Heating | kW | 0.45/0.46/0.47 | | 0.45/0.46/0.47 | | |
| Current Input (220/230/240) | Cooling | A | 2.89/2.83/2.79 | | 2.89/2.83/2.79 | | |
| | Heating | A | 2.89/2.83/2.79 | | 2.89/2.83/2.79 | | |
| Sound Pressure Level (Measured in Anechoic Room) | | dB <A> | 41 | | 41 | | |
| Applicable Temperature Range of Installation Site | | °C (D.B.) | 0~32 | | 0~32 | | |
| External Finish | | | Galvanized steel plate (Lower part drain pan: pre-coated galvanized sheets + powder coating) | | Galvanized steel plate (Lower part drain pan: pre-coated galvanized sheets + powder coating) | | |
| Connectable Outdoor Unit | | | PURY-M200~500YNW-A1(-BS)/PURY-EM200~500YNW-A1(-BS) | | PURY-M200~500YNW-A1(-BS)/PURY-EM200~500YNW-A1(-BS) | | |
| Indoor Unit Capacity Connectable to 1 Branch | | | Model P80 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds P81) | | Model P80 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds P81) | | |
| External Dimension H x W x D | | | mm | 300 x 1,520 x 630 | | 300 x 1,800 x 630 | |
| Refrigerant Piping Diameter | To Outdoor Unit | High Press. Pipe (O.D.) | mm (in.) | 15.88 (5/8) Brazed | | 15.88 (5/8) Brazed | |
| | | Low Press. Pipe (O.D.) | mm (in.) | 19.05 (3/4) Brazed | | 19.05 (3/4) Brazed | |
| Water Piping Diameter | To Indoor Unit | Inlet Pipe (I.D.) | mm (in.) | 20 (3/4) | | 20 (3/4) | |
| | | Outlet Pipe (I.D.) | mm (in.) | 20 (3/4) | | 20 (3/4) | |
| Field Drain Pipe Size | | | mm (in.) | O.D. 32 (1-1/4) | | O.D. 32 (1-1/4) | |
| Net Weight | | | kg | 86 [96 with water] | | 98 [111 with water] | |
| Standard Attachment | | Accessory | Drain connection pipe (with flexible hose and insulation) | | Drain connection pipe (with flexible hose and insulation) | | |
| Optional Parts | | | - | | - | | |

Notes:

*Please attach an expansion vessel (field supply).

Product Specifications

Sub HBC



| Sub HBC | | | | CMB-WM108V-AB | | CMB-WM1016V-AB | |
|---|------------------------|--------------------|----------------|--|----------------|--|-------|
| Number of Branch | | | | 8 | | 16 | |
| Power Source | | | | 1-phase 220-230-240 V | | 1-phase 220-230-240 V | |
| | | | | 50 Hz | 60 Hz | 50 Hz | 60 Hz |
| Power Input (220/230/240) | Cooling | kW | 0.01/0.01/0.01 | 0.01/0.01/0.01 | 0.01/0.01/0.01 | 0.01/0.01/0.01 | |
| | Heating | kW | 0.01/0.01/0.01 | 0.01/0.01/0.01 | 0.01/0.01/0.01 | 0.01/0.01/0.01 | |
| Current Input (220/230/240) | Cooling | A | 0.05/0.05/0.05 | 0.05/0.05/0.05 | 0.05/0.05/0.05 | 0.05/0.05/0.05 | |
| | Heating | A | 0.05/0.05/0.05 | 0.05/0.05/0.05 | 0.05/0.05/0.05 | 0.05/0.05/0.05 | |
| Sound Pressure Level (Measured in Anechoic Room) | | | dB <A> | - | | | |
| Applicable Temperature Range of Installation Site | | | °C (D.B.) | 0~32 | | | |
| External Finish | | | | Galvanized steel plate (Lower part drain pan: pre-coated galvanized sheets + powder coating) | | Galvanized steel plate (Lower part drain pan: pre-coated galvanized sheets + powder coating) | |
| Connectable Outdoor Unit | | | | - | | - | |
| Indoor Unit Capacity Connectable to 1 Branch | | | | Model P80 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds P81) | | Model P80 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds P81) | |
| External Dimension H x W x D | | | mm | 300 x 1,520 x 630 | | 300 x 1,520 x 630 | |
| Water Piping Diameter | To Main HBC Controller | Inlet Pipe (I.D.) | mm (in.) | 20 (3/4) | | 20 (3/4) | |
| | | Outlet Pipe (I.D.) | mm (in.) | 20 (3/4) | | 20 (3/4) | |
| | To Indoor Unit | Inlet Pipe (I.D.) | mm (in.) | 20 (3/4) | | 20 (3/4) | |
| | | Outlet Pipe (I.D.) | mm (in.) | 20 (3/4) | | 20 (3/4) | |
| Field Drain Pipe Size | | | mm (in.) | O.D. 32 (1-1/4) | | O.D. 32 (1-1/4) | |
| Net Weight | | | kg | 44 [49 with water] | | 53 [62 with water] | |
| Standard Attachment | | Accessory | | Drain connection pipe (with flexible hose and insulation) | | Drain connection pipe (with flexible hose and insulation) | |
| Optional Parts | | | | - | | - | |

Notes:

*Please attach an expansion vessel (field supply).



Outdoor Units

| Outdoor Unit | | | PURY-M200YNW-A1 (-BS) | PURY-M250YNW-A1 (-BS) |
|--|--------------------------------------|---------------------|---|---|
| Power Source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling Capacity [Nominal]* ¹ | | kW | 22.4 | 28.0 |
| | Power Input | kW | 5.53 | 8.40 |
| | Current Input | A | 9.3 - 8.8 - 8.5 | 14.1 - 13.4 - 12.9 |
| | EER | kW / kW | 4.05 | 3.33 |
| Temp. Range of Cooling* ³ | Indoor | W.B. | 15.0~24.0°C (59~75°F) | 15.0~24.0°C (59~75°F) |
| | Outdoor | D.B. | -5.0~52.0°C (23~126°F) | -5.0~52.0°C (23~126°F) |
| Heating Capacity [Nominal]* ² | | kW | 25.0 | 31.5 |
| | Power Input | kW | 6.39 | 9.15 |
| | Current Input | A | 10.7 - 10.2 - 9.8 | 15.4 - 14.6 - 14.1 |
| | COP | kW / kW | 3.91 | 3.44 |
| Temp. Range of Heating* ³ | Indoor | D.B. | 15.0 ~ 27.0°C | 15.0 ~ 27.0°C |
| | Outdoor | W.B. | -20.0 ~ 15.5°C | -20.0 ~ 15.5°C |
| Indoor Unit Connectable | Total Capacity | | 50 ~ 150% of outdoor unit capacity | 50 ~ 150% of outdoor unit capacity |
| | Model / Quantity | | W(P)10~125, WL10~50/1~30 | W(P)10~125, WL10~50/1~37 |
| Sound Pressure Level (Measured in Anechoic Room)* ⁴ | | dB <A> | 59.0/59.0 | 60.5/61.0 |
| Sound Power Level (Measured in Anechoic Room)* ⁴ | | dB <A> | 76.0/78.0 | 78.5/80.0 |
| Refrigerant Piping Diameter | High Pressure | mm (in.) | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed |
| | Low Pressure | mm (in.) | 19.05 (3/4) Brazed | 22.2 (7/8) Brazed |
| Fan | Type x Quantity | | Propeller fan x 1 | Propeller fan x 1 |
| | Air Flow Rate | m ³ /min | 170 | 185 |
| | | L/S | 2,833 | 3,083 |
| | Control, Driving Mechanism | | Inverter-control, direct-driven by motor | Inverter-control, direct-driven by motor |
| | Motor Output | kW | 0.92 x 1 | 0.92 x 1 |
| | External Static Press.* ⁵ | | 0 Pa (0 mmH ₂ O) | 0 Pa (0 mmH ₂ O) |
| Compressor | Type | | Inverter scroll hermetic compressor | Inverter scroll hermetic compressor |
| | Starting Method | | Inverter | Inverter |
| | Motor Output | kW | 4.6 | 7.0 |
| | Case Heater | kW | - (- V) | - (- V) |
| External Finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> |
| External Dimension H x W x D | | mm | 1,858 (1,798 without legs) x 920 x 740 | 1,858 (1,798 without legs) x 920 x 740 |
| Protection Devices | High Pressure Protection | | High pressure sensor, high pressure switch at 4.15 MPa (601 psi) | High pressure sensor, high pressure switch at 4.15 MPa (601 psi) |
| | Inverter Circuit (COMP/FAN) | | Over-heat protection, over-current protection | Over-heat protection, over-current protection |
| | Compressor | | - | - |
| | Fan Motor | | - | - |
| Refrigerant | | | | |
| Type/GWP | | | R32/675 | R32/675 |
| Factory Charged | Weight | kg | 5.2 | 5.2 |
| Maximum Additional Charge | Weight | kg | 13.5 | 13.5 |
| Total Charge | Weight | kg | 18.7 | 18.7 |
| Net Weight | | kg | 227 | 227 |
| Heat Exchanger | | | Salt-resistant cross fin & copper tube | Salt-resistant cross fin & copper tube |
| Defrosting Method | | | Auto-defrost mode (Reversed refrigerant cycle, hot gas) | Auto-defrost mode (Reversed refrigerant cycle, hot gas) |
| Optional Parts | | | Main HBC controller: CMB-WM108,1016V-AA Sub HBC controller: CMB-WM108,1016V-AB | Main HBC controller: CMB-WM108,1016V-AA Sub HBC controller: CMB-WM108,1016V-AB |

Notes:

- *1 Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CDB./19°CWB., Outdoor: 35°CDB./24°CWB.
Pipe length: 7.5 m, Level difference: 0 m.
- *2 Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CDB., Outdoor: 7°CDB./6°CWB.
Pipe length: 7.5 m, Level difference: 0 m.
- *3 -5°CDB./-6°CWB. to 21°CDB./15.5°CWB. with cooling/heating mixed operation.
- *4 Cooling mode/Heating mode
- *5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa).
Consult your dealer about the specification when setting External static pressure option.

Product Specifications

Outdoor Units



| Outdoor Unit | | | | PURY-M300YNW-A1 (-BS) | | PURY-M350YNW-A1 (-BS) | |
|--|--------------------------------------|----|---------------------|---|------|---|--|
| Number of HBC Controller | | | | Single HBC | | Double HBC | |
| Power Source | | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | | 3-phase 4-wire 380-400-415 V 50/60 Hz | |
| Cooling Capacity [Nominal]* ¹ | | | kW | 33.5 | | 40.0 | |
| | Power Input | | kW | 11.65 | | 14.93 | |
| | Current Input | | A | 19.6 - 18.6 - 18.0 | | 25.2 - 23.9 - 23.0 | |
| | EER | | kW / kW | 2.87 | | 2.67 | |
| | | | | 3.39 | | 3.29 | |
| Temp. Range of Cooling* ³ | Indoor | | W.B. | 15.0 ~ 24.0°C | | 15.0 ~ 24.0°C | |
| | Outdoor | | D.B. | -5.0 ~ 52.0°C | | -5.0 ~ 52.0°C | |
| Heating Capacity [Nominal]* ² | | | kW | 37.5 | | 45.0 | |
| | Power Input | | kW | 11.00 | | 13.14 | |
| | Current Input | | A | 18.5 - 17.6 - 17.0 | | 22.1 - 21.0 - 20.3 | |
| | COP | | kW / kW | 3.40 | | 3.42 | |
| | | | | 3.63 | | 3.70 | |
| Temp. Range of Heating* ³ | Indoor | | D.B. | 15.0 ~ 27.0°C | | 15.0 ~ 27.0°C | |
| | Outdoor | | W.B. | -20.0 ~ 15.5°C | | -20.0 ~ 15.5°C | |
| Indoor Unit Connectable | Total Capacity | | | 50 ~ 150% of outdoor unit capacity | | 50 ~ 150% of outdoor unit capacity | |
| | Model / Quantity | | | W(P)10 ~ 125, WL10 ~ 50/2 ~ 45 | | W(P)10 ~ 125, WL10 ~ 50/2 ~ 50 | |
| Sound Pressure Level (Measured in Anechoic Room)* ⁴ | | | dB <A> | 61.0/67.0 | | 62.5/64.0 | |
| Sound Power Level (Measured in Anechoic Room)* ⁴ | | | dB <A> | 80.0/86.5 | | 81.0/83.0 | |
| Refrigerant Piping Diameter | High Pressure | | mm (in.) | 15.88 (5/8) Brazed | | 15.88 (5/8) Brazed | |
| | Low Pressure | | mm (in.) | 22.2 (7/8) Brazed | | 28.58 (1-1/8) Brazed | |
| Fan | Type x Quantity | | | Propeller fan x 1 | | Propeller fan x 2 | |
| | Air Flow Rate | | m ³ /min | 240 | | 250 | |
| | | | L/S | 4,000 | | 4,167 | |
| | Control, Driving Mechanism | | | Inverter-control, direct-driven by motor | | Inverter-control, direct-driven by motor | |
| | Motor Output | | kW | 0.92 x 1 | | 0.46 x 2 | |
| | External Static Press.* ⁵ | | | 0 Pa (0 mmH ₂ O) | | 0 Pa (0 mmH ₂ O) | |
| Compressor | Type | | | Inverter scroll hermetic compressor | | Inverter scroll hermetic compressor | |
| | Starting Method | | | Inverter | | Inverter | |
| | Motor Output | | kW | 8.0 | | 9.6 | |
| | Case Heater | | kW | - (- V) | | - (- V) | |
| External Finish | | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | |
| External Dimension H x W x D | | | mm | 1,858 (1,798 without legs) x 920 x 740 | | 1,858 (1,798 without legs) x 1,240 x 740 | |
| Protection Devices | High Pressure Protection | | | High pressure sensor, high pressure switch at 4.15 MPa (601 psi) | | High pressure sensor, high pressure switch at 4.15 MPa (601 psi) | |
| | Inverter Circuit (COMP/FAN) | | | Over-heat protection, over-current protection | | Over-heat protection, over-current protection | |
| | Compressor | | | - | | - | |
| | Fan Motor | | | - | | - | |
| Refrigerant | | | | | | | |
| Type/GWP | | | | R32/675 | | R32/675 | |
| Factory Charged | Weight | kg | 5.2 | | 8.0 | | |
| Maximum Additional Charge | Weight | kg | 15.5 | | 15.5 | | |
| Total Charge | Weight | kg | 20.7 | | 23.5 | | |
| Net Weight | | | kg | 227 | | 270 | |
| Heat Exchanger | | | | Salt-resistant cross fin & copper tube | | Salt-resistant cross fin & copper tube | |
| Defrosting Method | | | | Auto-defrost mode (Reversed refrigerant cycle, hot gas) | | Auto-defrost mode (Reversed refrigerant cycle) | |
| Optional Parts | | | | Main HBC controller: CMB-WM108,1016V-AA Sub HBC controller: CMB-WM108.1016V-AB | | Main HBC controller: CMB-WM108,1016V-AA Sub HBC controller: CMB-WM108.1016V-AB | |

Notes:

- *1 Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CDB./19°CWB., Outdoor: 35°CDB./24°CWB.
Pipe length: 7.5 m, Level difference: 0 m.
- *2 Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CDB., Outdoor: 7°CDB./6°CWB.
Pipe length: 7.5 m, Level difference: 0 m.
- *3 -5°CDB./-6°CWB. to 21°CDB./15.5°CWB. with cooling/heating mixed operation.
- *4 Cooling mode/Heating mode
- *5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa).
Consult your dealer about the specification when setting External static pressure option.



| Outdoor Unit | | | PURY-M400YNW-A1 (-BS) | PURY-M450YNW-A1 (-BS) |
|--|--------------------------------------|---------------------|---|---|
| Power Source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling Capacity [Nominal]* ¹ | | kW | 45.0 | 50.0 |
| | Power Input | kW | 15.15 | 15.47 |
| | Current Input | A | 25.5 - 24.2 - 23.4 | 26.1 - 24.8 - 23.9 |
| | EER | kW / kW | 2.97 | 3.23 |
| Temp. Range of Cooling* ³ | Indoor | W.B. | 15.0 ~ 24.0°C | 15.0 ~ 24.0°C |
| | Outdoor | D.B. | -5.0 ~ 52.0°C | -5.0 ~ 52.0°C |
| Heating Capacity [Nominal]* ² | | kW | 50.0 | 56.0 |
| | Power Input | kW | 14.08 | 16.18 |
| | Current Input | A | 23.7 - 22.5 - 21.7 | 27.3 - 25.9 - 25.0 |
| | COP | kW / kW | 3.55 | 3.46 |
| Temp. Range of Heating* ³ | Indoor | D.B. | 15.0 ~ 27.0°C | 15.0 ~ 27.0°C |
| | Outdoor | W.B. | -20.0 ~ 15.5°C | -20.0 ~ 15.5°C |
| Indoor Unit Connectable | Total Capacity | | 50 ~ 150% of outdoor unit capacity | 50 ~ 150% of outdoor unit capacity |
| | Model / Quantity | | W(P)10 ~ 125, WL10 ~ 50/2 ~ 50 | W(P)10 ~ 125, WL10 ~ 50/2 ~ 50 |
| Sound Pressure Level (Measured in Anechoic Room)* ⁴ | | dB <A> | 65.0/69.0 | 65.5/70.0 |
| Sound Power Level (Measured in Anechoic Room)* ⁴ | | dB <A> | 83.0/88.0 | 83.0/89.0 |
| Refrigerant Piping Diameter | High Pressure | mm (in.) | 19.05 (3/4) Brazed | 19.05 (3/4) Brazed |
| | Low Pressure | mm (in.) | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed |
| Fan | Type x Quantity | | Propeller fan x 2 | Propeller fan x 2 |
| | Air Flow Rate | m ³ /min | 315 | 315 |
| | | L/S | 5,250 | 5,283 |
| | Control, Driving Mechanism | | Inverter-control, direct-driven by motor | Inverter-control, direct-driven by motor |
| | Motor Output | | 0.46 x 2 | 0.46 x 2 |
| Compressor | External Static Press.* ⁵ | | 0 Pa (0 mmH ₂ O) | 0 Pa (0 mmH ₂ O) |
| | Type | | Inverter scroll hermetic compressor | Inverter scroll hermetic compressor |
| | Starting Method | | Inverter | Inverter |
| | Motor Output | kW | 12.2 | 13.1 |
| | Case Heater | kW | - (- V) | - (- V) |
| External Finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> |
| External Dimension H x W x D | | mm | 1,858 (1,798 without legs) x 1,240 x 740 | 1,858 (1,798 without legs) x 1,240 x 740 |
| Protection Devices | High Pressure Protection | | High pressure sensor, high pressure switch at 4.15 MPa (601 psi) | High pressure sensor, high pressure switch at 4.15 MPa (601 psi) |
| | Inverter Circuit (COMP/FAN) | | Over-heat protection, over-current protection | Over-heat protection, over-current protection |
| | Compressor | | - | - |
| | Fan Motor | | - | - |
| Refrigerant | | | | |
| | Type/GWP | | R32/675 | R32/675 |
| | Factory Charged | Weight kg | 8.0 | 10.8 |
| | Maximum Additional Charge | Weight kg | 19.5 | 19.5 |
| | Total Charge | Weight kg | 27.5 | 30.3 |
| Net Weight | | kg | 273 | 293 |
| Heat Exchanger | | | Salt-resistant cross fin & copper tube | Salt-resistant cross fin & copper tube |
| Defrosting Method | | | Auto-defrost mode (Reversed refrigerant cycle) | Auto-defrost mode (Reversed refrigerant cycle) |
| Optional Parts | | | Main HBC controller: CMB-WM108,1016V-AA Sub HBC controller: CMB-WM108,1016V-AB | Main HBC controller: CMB-WM108,1016V-AA Sub HBC controller: CMB-WM108,1016V-AB |

Notes:

- *1 Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CDB./19°CWB., Outdoor: 35°CDB./24°CWB.
Pipe length: 7.5 m, Level difference: 0 m.
- *2 Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CDB., Outdoor: 7°CDB./6°CWB.
Pipe length: 7.5 m, Level difference: 0 m.
- *3 -5°CDB./-6°CWB. to 21°CDB./15.5°CWB. with cooling/heating mixed operation.
- *4 Cooling mode/Heating mode
- *5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa).
Consult your dealer about the specification when setting External pressure option.

Product Specifications

Outdoor Units



| Outdoor Unit | | | | PURY-M500YNW-A1 (-BS) | | | |
|--|--|--|--|---|--|--|--|
| Power Source | | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | | | |
| Cooling Capacity [Nominal]* ¹ | | | | kW | | | |
| | | | | 56.0 | | | |
| | | | | Power Input | | | |
| | | | | kW | | | |
| | | | | 22.25 | | | |
| | | | | Current Input | | | |
| | | | | A | | | |
| | | | | 37.5 - 35.6 - 34.3 | | | |
| | | | | EER | | | |
| | | | | kW / kW | | | |
| | | | | 2.51 | | | |
| Temp. Range of Cooling* ³ | | | | Indoor | | | |
| | | | | W.B. | | | |
| | | | | 15.0 ~ 24.0°C | | | |
| | | | | Outdoor | | | |
| | | | | D.B. | | | |
| | | | | -5.0 ~ 52.0°C | | | |
| Heating Capacity [Nominal]* ² | | | | kW | | | |
| | | | | 63.0 | | | |
| | | | | Power Input | | | |
| | | | | kW | | | |
| | | | | 18.26 | | | |
| | | | | Current Input | | | |
| | | | | A | | | |
| | | | | 30.8 - 29.2 - 28.2 | | | |
| | | | | COP | | | |
| | | | | kW / kW | | | |
| | | | | 3.45 | | | |
| Temp. Range of Heating* ³ | | | | Indoor | | | |
| | | | | W.B. | | | |
| | | | | 15.0 ~ 27.0°C | | | |
| | | | | Outdoor | | | |
| | | | | W.B. | | | |
| | | | | -20.0 ~ 15.5°C | | | |
| Indoor Unit Connectable | | | | Total Capacity | | | |
| | | | | 50~150% of outdoor unit capacity | | | |
| | | | | Model / Quantity | | | |
| | | | | W(P)10~125, WL10~50/2~50 | | | |
| Sound Pressure Level (Measured in Anechoic Room)* ⁴ | | | | dB <A> | | | |
| | | | | 63.5/64.5 | | | |
| Sound Power Level (Measured in Anechoic Room)* ⁴ | | | | dB <A> | | | |
| | | | | 82.0/84.0 | | | |
| Refrigerant Piping Diameter | | | | High Pressure | | | |
| | | | | mm (in.) | | | |
| | | | | 19.05 (3/4) Brazed | | | |
| | | | | Low Pressure | | | |
| | | | | mm (in.) | | | |
| | | | | 28.58 (1-1/8) Brazed | | | |
| Fan | | | | Type x Quantity | | | |
| | | | | Propeller fan x 2 | | | |
| | | | | Air Flow Rate | | | |
| | | | | m ³ /min | | | |
| | | | | 295 | | | |
| | | | | L/S | | | |
| | | | | 4,917 | | | |
| | | | | Control, Driving Mechanism | | | |
| | | | | Inverter-control, direct-driven by motor | | | |
| | | | | Motor Output | | | |
| | | | | kW | | | |
| | | | | 0.92 x 2 | | | |
| | | | | External Static Press.* ⁵ | | | |
| | | | | 0 Pa (0 mmH ₂ O) | | | |
| Compressor | | | | Type | | | |
| | | | | Inverter scroll hermetic compressor | | | |
| | | | | Starting Method | | | |
| | | | | Inverter | | | |
| | | | | Motor Output | | | |
| | | | | kW | | | |
| | | | | 17.4 | | | |
| | | | | Case Heater | | | |
| | | | | kW | | | |
| | | | | - | | | |
| | | | | - | | | |
| External Finish | | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) | | | |
| | | | | <MUNSELL 5Y 8/1 or similar> | | | |
| External Dimension H x W x D | | | | mm | | | |
| | | | | 1,858 (1,798 without legs) x 1,750 x 740 | | | |
| Protection Devices | | | | High Pressure Protection | | | |
| | | | | High pressure sensor, high pressure switch at 4.15 MPa (601 psi) | | | |
| | | | | Inverter Circuit (COMP/FAN) | | | |
| | | | | Over-heat protection, over-current protection | | | |
| | | | | Compressor | | | |
| | | | | - | | | |
| | | | | Fan Motor | | | |
| | | | | - | | | |
| Refrigerant | | | | | | | |
| | | | | Type/GWP | | | |
| | | | | R32/675 | | | |
| | | | | Factory Charged | | | |
| | | | | Weight | | | |
| | | | | kg | | | |
| | | | | 10.8 | | | |
| | | | | Maximum Additional Charge | | | |
| | | | | Weight | | | |
| | | | | kg | | | |
| | | | | 19.5 | | | |
| | | | | Total Charge | | | |
| | | | | Weight | | | |
| | | | | kg | | | |
| | | | | 30.3 | | | |
| Net Weight | | | | kg | | | |
| | | | | 337 | | | |
| Heat Exchanger | | | | Salt-resistant cross fin & copper tube | | | |
| Defrosting Method | | | | Auto-defrost mode (Reversed refrigerant cycle) | | | |
| Optional Parts | | | | Main HBC controller: CMB-WM108,1016V-AA | | | |
| | | | | Sub HBC controller: CMB-WM108,1016V-AB | | | |

Notes:

- *1 Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CDB./19°CWB., Outdoor: 35°CDB./24°CWB.
Pipe length: 7.5 m, Level difference: 0 m.
- *2 Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CDB., Outdoor: 7°CDB./6°CWB.
Pipe length: 7.5 m, Level difference: 0 m.
- *3 -5°CDB./-6°CWB. to 21°CDB./15.5°CWB. with cooling/heating mixed operation.
- *4 Cooling mode/Heating mode
- *5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa).
Consult your dealer about the specification when setting External static pressure option.



| Outdoor Unit | | | PURY-EM200YNW-A1 (-BS) | PURY-EM250YNW-A1 (-BS) |
|--|--------------------------------------|----------|---|---|
| Power Source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling Capacity [Nominal]* ¹ | | kW | 22.4 | 28.0 |
| | Power Input | kW | 5.13 | 7.69 |
| | Current Input | A | 8.6 - 8.2 - 7.9 | 12.9 - 12.3 - 11.8 |
| | EER | kW / kW | 4.36 | 3.64 |
| Temp. Range of Cooling* ³ | Indoor | W.B. | 15.0 ~ 24.0°C (59 ~ 75°F) | 15.0 ~ 24.0°C (59 ~ 75°F) |
| | Outdoor | D.B. | -5.0 ~ 52.0°C (23 ~ 126°F) | -5.0 ~ 52.0°C (23 ~ 126°F) |
| Heating Capacity [Nominal]* ² | | kW | 25.0 | 31.5 |
| | Power Input | kW | 6.23 | 8.84 |
| | Current Input | A | 10.5 - 9.9 - 9.6 | 14.9 - 14.1 - 13.6 |
| | COP | kW / kW | 4.01 | 3.56 |
| Temp. Range of Heating* ³ | Indoor | D.B. | 15.0 ~ 27.0°C | 15.0 ~ 27.0°Cz |
| | Outdoor | W.B. | -20.0 ~ 15.5°C | -20.0 ~ 15.5°C |
| Indoor Unit Connectable | Total Capacity | | 50 ~ 150% of outdoor unit capacity | 50 ~ 150% of outdoor unit capacity |
| | Model / Quantity | | W(P)10 ~ 125, WL10 ~ 50/1 ~ 30 | W(P)10 ~ 125, WL10 ~ 50/1 ~ 37 |
| Sound Pressure Level (Measured in Anechoic Room)* ⁴ | | dB <A> | 59.0/59.0 | 60.5/61.0 |
| Sound Power Level (Measured in Anechoic Room)* ⁴ | | dB <A> | 76.0/78.0 | 78.5/80.0 |
| Refrigerant Piping Diameter | High Pressure | mm (in.) | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed |
| | Low Pressure | mm (in.) | 19.05 (3/4) Brazed | 22.2 (7/8) Brazed |
| Fan | Type x Quantity | | Propeller fan x 1 | Propeller fan x 1 |
| | Air Flow Rate | m³/min | 170 | 185 |
| | | L/S | 2,833 | 3,083 |
| | Control, Driving Mechanism | | Inverter-control, direct-driven by motor | Inverter-control, direct-driven by motor |
| | Motor Output | kW | 0.92 x 1 | 0.92 x 1 |
| | External Static Press.* ⁵ | | 0 Pa (0 mmH₂O) | 0 Pa (0 mmH₂O) |
| Compressor | Type | | Inverter scroll hermetic compressor | Inverter scroll hermetic compressor |
| | Starting Method | | Inverter | Inverter |
| | Motor Output | kW | 4.5 | 6.7 |
| | Case Heater | kW | - (- V) | - (- V) |
| External Finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> |
| External Dimension H x W x D | | mm | 1,858 (1,798 without legs) x 920 x 740 | 1,858 (1,798 without legs) x 920 x 740 |
| Protection Devices | High Pressure Protection | | High pressure sensor, high pressure switch at 4.15 MPa | High pressure sensor, high pressure switch at 4.15 MPa |
| | Inverter Circuit (COMP/FAN) | | Over-heat protection, over-current protection | Over-heat protection, over-current protection |
| | Compressor | | - | - |
| | Fan Motor | | - | - |
| Refrigerant | | | | |
| Type/GWP | | | R32/675 | R32/675 |
| Factory Charged | Weight | kg | 5.2 | 5.2 |
| Maximum Additional Charge | Weight | kg | 13.5 | 13.5 |
| Total Charge | Weight | kg | 18.7 | 18.7 |
| Net Weight | | kg | 231 | 231 |
| Heat Exchanger | | | Salt-resistant cross fin & aluminium tube | Salt-resistant cross fin & aluminium tube |
| Defrosting Method | | | Auto-defrost mode (Reversed refrigerant cycle, hot gas) | Auto-defrost mode (Reversed refrigerant cycle, hot gas) |
| Optional Parts | | | Main HBC controller: CMB-WM108,1016V-AA | Main HBC controller: CMB-WM108,1016V-AA |
| | | | Sub HBC controller: CMB-WM108,1016V-AB | Sub HBC controller: CMB-WM108,1016V-AB |

Notes:

- *1 Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CDB./19°CWB., Outdoor: 35°CDB./24°CWB.
Pipe length: 7.5 m, Level difference: 0 m.
- *2 Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CDB., Outdoor: 7°CDB./6°CWB.
Pipe length: 7.5 m, Level difference: 0 m.
- *3 -5°CDB./-6°CWB. to 21°CDB./15.5°CWB. with cooling/heating mixed operation.
- *4 Cooling mode/Heating mode
- *5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa).
Consult your dealer about the specification when setting External static pressure option.

Product Specifications

Outdoor Units



| Outdoor Unit | | | | PURY-EM300YNW-A1 (-BS) | | PURY-EM350YNW-A1 (-BS) | |
|--|--------------------------------------|-------------------------------------|---|---|---|---|--|
| Number of HBC Controller | | | | Single HBC | | Double HBC | |
| Power Source | | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | | 3-phase 4-wire 380-400-415 V 50/60 Hz | |
| Cooling Capacity [Nominal]* ¹ | | | kW | 33.5 | | 40.0 | |
| | Power Input | kW | 10.03 | | 8.52 | | |
| | Current Input | A | 16.9 - 16.0 - 15.5 | | 14.3 - 13.6 - 13.1 | | |
| | EER | kW / kW | 3.33 | | 3.93 | | |
| Temp. Range of Cooling* ³ | Indoor | W.B. | 15.0 ~ 24.0°C | | 15.0 ~ 24.0°C | | |
| | Outdoor | D.B. | -5.0 ~ 52.0°C | | -5.0 ~ 52.0°C | | |
| Heating Capacity [Nominal]* ² | | | kW | 37.5 | | 45.0 | |
| | Power Input | kW | 10.46 | | 9.93 | | |
| | Current Input | A | 17.6 - 16.7 - 16.1 | | 16.7 - 15.9 - 15.3 | | |
| | COP | kW / kW | 3.58 | | 3.77 | | |
| Temp. Range of Heating* ³ | Indoor | D.B. | 15.0 ~ 27.0°C | | 15.0 ~ 27.0°C | | |
| | Outdoor | W.B. | -20.0 ~ 15.5°C | | -20.0 ~ 15.5°C | | |
| Indoor Unit Connectable | Total Capacity | | 50 ~ 150% of outdoor unit capacity | | 50 ~ 150% of outdoor unit capacity | | |
| | Model / Quantity | | W(P)10 ~ 125, WL10 ~ 50/2 ~ 45 | | W(P)10 ~ 125, WL10 ~ 50/2 ~ 50 | | |
| Sound Pressure Level (Measured in Anechoic Room)* ⁴ | | | dB <A> | 61.0/67.0 | | 62.5/64.0 | |
| Sound Power Level (Measured in Anechoic Room)* ⁴ | | | dB <A> | 80.0/86.5 | | 81.0/83.0 | |
| Refrigerant Piping Diameter | High Pressure | mm (in.) | 15.88 (5/8) Brazed | | 15.88 (5/8) Brazed | | |
| | Low Pressure | mm (in.) | 22.2 (7/8) Brazed | | 28.58 (1-1/8) Brazed | | |
| Fan | Type x Quantity | | Propeller fan x 1 | | Propeller fan x 2 | | |
| | Air Flow Rate | m ³ /min | 240 | | 250 | | |
| | | L/S | 4,000 | | 4,167 | | |
| | Control, Driving Mechanism | | Inverter-control, direct-driven by motor | | Inverter-control, direct-driven by motor | | |
| | Motor Output | | kW | 0.92 x 1 | | 0.46 x 2 | |
| Compressor | External Static Press.* ⁵ | | 0 Pa (0 mmH ₂ O) | | 0 Pa (0 mmH ₂ O) | | |
| | Type | Inverter scroll hermetic compressor | | Inverter scroll hermetic compressor | | | |
| | Starting Method | Inverter | | Inverter | | | |
| | Motor Output | kW | 7.7 | | 9.6 | | |
| | Case Heater | kW | - (- V) | | - (- V) | | |
| External Finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | | |
| External Dimension H x W x D | | | mm | 1,858 (1,798 without legs) x 920 x 740 | | 1,858 (1,798 without legs) x 1,240 x 740 | |
| Protection Devices | High Pressure Protection | | High pressure sensor, high pressure switch at 4.15 MPa (601 psi) | | High pressure sensor, high pressure switch at 4.15 MPa (601 psi) | | |
| | Inverter Circuit (COMP/FAN) | | Over-heat protection, over-current protection | | Over-heat protection, over-current protection | | |
| | Compressor | | - | | - | | |
| | Fan Motor | | - | | - | | |
| Refrigerant | | | | | | | |
| Type/GWP | | | R32/675 | | R32/675 | | |
| Factory Charged | Weight | kg | 5.2 | | 8.0 | | |
| Maximum Additional Charge | Weight | kg | 15.5 | | 15.5 | | |
| Total Charge | Weight | kg | 20.7 | | 23.5 | | |
| Net Weight | | | kg | 231 | | 276 | |
| Heat Exchanger | | | | Salt-resistant cross fin & aluminium tube | | Salt-resistant cross fin & aluminium tube | |
| Defrosting Method | | | | Auto-defrost mode (Reversed refrigerant cycle, hot gas) | | Auto-defrost mode (Reversed refrigerant cycle, hot gas) | |
| Optional Parts | | | | Main HBC controller: CMB-WM108,1016V-AA Sub HBC controller: CMB-WM108.1016V-AB | | Main HBC controller: CMB-WM108,1016V-AA Sub HBC controller: CMB-WM108.1016V-AB | |

Notes:

- *1 Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CDB./19°CWB., Outdoor: 35°CDB./24°CWB.
Pipe length: 7.5 m, Level difference: 0 m.
- *2 Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CDB., Outdoor: 7°CDB./6°CWB.
Pipe length: 7.5 m, Level difference: 0 m.
- *3 -5°CDB./-6°CWB. to 21°CDB./15.5°CWB. with cooling/heating mixed operation.
- *4 Cooling mode/Heating mode
- *5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa).
Consult your dealer about the specification when setting External static pressure option.



| Outdoor Unit | | | PURY-EM400YNW-A1 (-BS) | PURY-EM450YNW-A1 (-BS) | PURY-EM500YNW-A1 (-BS) |
|--|--------------------------------------|---------------------|--|--|--|
| Power Source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | | |
| Cooling Capacity [Nominal]* ¹ | | kW | 45.0 | 50.0 | 56.0 |
| | Power Input | kW | 13.84 | 15.24 | 18.06 |
| | Current Input | A | 23.3 - 22.1 - 21.3 | 25.7 - 24.4 - 23.5 | 30.4 - 28.9 - 27.9 |
| | EER | kW / kW | 3.25 | 3.28 | 3.10 |
| Temp. Range of Cooling ^{*3} | Indoor | W.B. | 15.0 ~ 24.0°C | 15.0 ~ 24.0°C | 15.0 ~ 24.0°C |
| | Outdoor | D.B. | -5.0 ~ 52.0°C | -5.0 ~ 52.0°C | -5.0 ~ 52.0°C |
| Heating Capacity [Nominal]* ² | | kW | 50.0 | 56.0 | 63.0 |
| | Power Input | kW | 13.88 | 15.77 | 17.45 |
| | Current Input | A | 23.4 - 22.2 - 21.4 | 26.6 - 25.2 - 24.3 | 29.4 - 27.9 - 26.9 |
| | COP | kW / kW | 3.60 | 3.55 | 3.61 |
| Temp. Range of Heating ^{*3} | Indoor | D.B. | 15.0 ~ 27.0°C | 15.0 ~ 27.0°C | 15.0 ~ 27.0°C |
| | Outdoor | W.B. | -20.0 ~ 15.5°C | -20.0 ~ 15.5°C | -20.0 ~ 15.5°C |
| Indoor Unit Connectable | Total Capacity | | 50 ~ 150% of outdoor unit capacity | 50 ~ 150% of outdoor unit capacity | 50 ~ 150% of outdoor unit capacity |
| | Model / Quantity | | W(P)10 ~ 125, WL10 ~ 50/2 ~ 50 | W(P)10 ~ 125, WL10 ~ 50/2 ~ 50 | W(P)10 ~ 125, WL10 ~ 50/2 ~ 50 |
| Sound Pressure Level (Measured in Anechoic Room)* ⁴ | | dB <A> | 65.0/69.0 | 65.5/70.0 | 63.5/64.5 |
| Sound Power Level (Measured in Anechoic Room)* ⁴ | | dB <A> | 83.0/88.0 | 83.0/89.0 | 82.0/84.0 |
| Refrigerant Piping Diameter | High Pressure | mm (in.) | 19.05 (3/4) Brazed | 19.05 (3/4) Brazed | 19.05 (3/4) Brazed |
| | Low Pressure | mm (in.) | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed |
| Fan | Type x Quantity | | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 |
| | Air Flow Rate | m ³ /min | 315 | 315 | 295 |
| | | L/S | 5,250 | 5,250 | 4,917 |
| | Control, Driving Mechanism | | Inverter-control, direct-driven by motor | | |
| | Motor Output | kW | 0.46 x 2 | 0.46 x 2 | 0.92 x 2 |
| | External Static Press.* ⁵ | | 0 Pa | 0 Pa | 0 Pa |
| Compressor | Type | | Inverter scroll hermetic compressor | Inverter scroll hermetic compressor | Inverter scroll hermetic compressor |
| | Starting Method | | Inverter | Inverter | Inverter |
| | Motor Output | kW | 11.1 | 12.7 | 13.8 |
| | Case Heater | kW | - (- V) | - (- V) | - (- V) |
| External Finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | | |
| External Dimension H x W x D | | mm | 1,858 (1,798 without legs) x 1,240 x 740 | 1,858 (1,798 without legs) x 1,240 x 740 | 1,858 (1,798 without legs) x 1,750 x 740 |
| Protection Devices | High Pressure Protection | | High pressure sensor, high pressure switch at 4.15 MPa (601 psi) | | |
| | Inverter Circuit (COMP./FAN) | | Over-heat protection, over-current protection | | |
| | Compressor | | | - | - |
| Fan Motor | | | - | - | - |
| Refrigerant | | | | | |
| Type/GWP | | | R32/675 | R32/675 | R32/675 |
| Factory Charged | Weight | kg | 8.0 | 10.8 | 10.8 |
| Maximum Additional Charge | Weight | kg | 19.5 | 19.5 | 19.5 |
| Total Charge | Weight | kg | 27.5 | 30.3 | 30.3 |
| Net Weight | | kg | 280 | 305 | 348 |
| Heat Exchanger | | | Salt-resistant cross fin & aluminium tube | | |
| Defrosting Method | | | Auto-defrost mode (Reversed refrigerant cycle) | | |
| Optional Parts | | | Main HBC controller: CMB-WM108,1016V-AA Sub HRC controller: CMB-WM108,1016V-AB | | |

Notes:

*1 Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CDB./19°CWB., Outdoor: 35°CDB./24°CWB.
Pipe length: 7.5 m, Level difference: 0 m.

*2 Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CDB., Outdoor: 7°CDB./6°CWB.
Pipe length: 7.5 m, Level difference: 0 m.

*3 -5°CDB./-6°CWB. to 21°CDB./15.5°CWB. with cooling/heating mixed operation.

*4 Cooling mode/Heating mode

*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa).

Consult your dealer about the specification when setting External static pressure option.

Product Specifications

Outdoor Units



| Outdoor Unit | | | | PURY-P200YNW-A1(-BS) | | PURY-P250YNW-A1(-BS) | |
|--|---------------------------|-----------------------------|---|---|---|---|--|
| Power Source | | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | | 3-phase 4-wire 380-400-415 V 50/60 Hz | |
| Cooling Capacity [Nominal]* ¹ | | | | kW | | 28.0 | |
| | | | Power Input | kW | | 6.54 | |
| | | | Current Input | A | | 11.0 - 10.4 - 10.1 | |
| | | | EER | kW / kW | | 3.42 | |
| Temp. Range of Cooling* ³ | | | Indoor | W.B. | | 15.0 ~ 24.0°C | |
| | | | Outdoor | D.B. | | -5.0 ~ 52.0°C | |
| Heating Capacity [Nominal]* ² | | | | kW | | 31.5 | |
| | | | Power Input | kW | | 6.49 | |
| | | | Current Input | A | | 10.9 - 10.4 - 10.0 | |
| | | | COP | kW / kW | | 3.85 | |
| Temp. Range of Heating* ³ | | | Indoor | D.B. | | 15.0 ~ 27.0°C | |
| | | | Outdoor | W.B. | | -20.0 ~ 15.5°C | |
| Indoor Unit Connectable | | | Total Capacity | 50 ~ 150% of outdoor unit capacity | | 50 ~ 150% of outdoor unit capacity | |
| | | | Model / Quantity | WP10 ~ WP125/1 ~ 30 | | WP10 ~ WP125/1 ~ 37 | |
| Sound Pressure Level (Measured in Anechoic Room)* ⁴ | | | dB <A> | 59.0/59.0 | | 60.5/61.0 | |
| Sound Power Level (Measured in Anechoic Room)* ⁴ | | | dB <A> | 76.0/78.0 | | 78.5/80.0 | |
| Refrigerant Piping Diameter | | | High Pressure | mm (in.) | | 15.88 (5/8) Brazed | |
| | | | Low Pressure | mm (in.) | | 19.05 (3/4) Brazed | |
| Fan | | | Type x Quantity | Propeller fan x 1 | | Propeller fan x 1 | |
| | | | Air Flow Rate | m ³ /min | | 170 | |
| | | | | L/S | | 2,833 | |
| | | | Control, Driving Mechanism | Inverter-control, direct-driven by motor | | Inverter-control, direct-driven by motor | |
| | | | Motor Output | kW | | 0.92 x 1 | |
| | | | External Static Press.* ⁵ | 0 Pa | | 0 Pa | |
| Compressor | | | Type | Inverter scroll hermetic compressor | | Inverter scroll hermetic compressor | |
| | | | Starting Method | Inverter | | Inverter | |
| | | | Motor Output | kW | | 5.6 | |
| | | | Case Heater | kW | | - | |
| External Finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | | |
| External Dimension H x W x D | | | mm | | 1,858 (1,798 without legs) x 920 x 740 | | |
| Protection Devices | | High Pressure Protection | | High pressure sensor, high pressure switch at 4.15 MPa (601 psi) | | High pressure sensor, high pressure switch at 4.15 MPa (601 psi) | |
| | | Inverter Circuit (COMP/FAN) | | Over-heat protection, over-current protection | | Over-heat protection, over-current protection | |
| | | Compressor | | - | | - | |
| | | Fan Motor | | - | | - | |
| Refrigerant | | | | | | | |
| | Type/GWP | | | R410A/2088 | | R410A/2088 | |
| | Factory Charged | Weight | kg | 5.2 | | 5.2 | |
| | Maximum Additional Charge | Weight | kg | 31.8 | | 37.8 | |
| | Total Charge | Weight | kg | 37.0 | | 43.0 | |
| Net Weight | | | kg | 219 | | 228 | |
| Heat Exchanger | | | | Salt-resistant cross fin & copper tube | | Salt-resistant cross fin & copper tube | |
| Defrosting Method | | | | Auto-defrost mode (Reversed refrigerant cycle, Hot gas) | | Auto-defrost mode (Reversed refrigerant cycle, Hot gas) | |
| Optional Parts | | | | Main BC controller: CMB-WP108,1016V-GA1 Sub BC controller: CMB-WP108,1016V-GR1 | | Main BC controller: CMB-WP108,1016V-GA1 Sub BC controller: CMB-WP108,1016V-GR1 | |

Notes:

*1 Nominal cooling conditions (subject to JIS B8615-2)

Indoor: 27°CDB./19°CWB., Outdoor: 35°CDB.

Pipe length: 7.5 m, Level difference: 0 m.

*2 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20°CDB., Outdoor: 7°CDB./6°CWB.

Pipe length: 7.5 m, Level difference: 0 m.

*3 -5°CDB./-6°CWB. to 21°CDB. /15.5°CWB. with cooling/heating mixed operation.

*4 Cooling mode/Heating mode

*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa).

Consult your dealer about the specification when setting External static pressure option.



| Outdoor Unit | | | | PURY-P300YNW-A1(-BS) | | PURY-P350YNW-A1(-BS) | |
|--|--|--------------------------------------|--------|---|--|---|--|
| Number of HBC Controller | | | | Single HBC | | Single HBC | |
| Power Source | | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | | 3-phase 4-wire 380-400-415 V 50/60 Hz | |
| Cooling Capacity [Nominal]* ¹ | | kW | | 33.5 | | 40.0 | |
| | | kW | | 3.13 | | 11.12 | |
| | | A | | 22.1 - 21.0 - 20.2 | | 18.7 - 17.8 - 17.1 | |
| | | kW / kW | | 2.55 | | 3.01 | |
| Temp. Range of Cooling* ³ | | W.B. | | 15.0 ~ 24.0°C | | 15.0 ~ 24.0°C | |
| | | D.B. | | -5.0 ~ 52.0°C | | -5.0 ~ 52.0°C | |
| Heating Capacity [Nominal]* ² | | kW | | 37.5 | | 45.0 | |
| | | kW | | 12.71 | | 11.94 | |
| | | A | | 21.4 - 20.3 - 19.6 | | 20.1 - 19.1 - 18.4 | |
| | | kW / kW | | 2.95 | | 3.14 | |
| Temp. Range of Heating* ³ | | D.B. | | 15.0 ~ 27.0°C | | 15.0 ~ 27.0°C | |
| | | W.B. | | -20.0 ~ 15.5°C | | -20.0 ~ 15.5°C | |
| Indoor Unit Connectable | | Total Capacity | | 50 ~ 150% of outdoor unit capacity | | 50 ~ 150% of outdoor unit capacity | |
| | | Model / Quantity | | WP10 ~ WP125/2 ~ 45 | | WP10 ~ WP125/2 ~ 50 | |
| Sound Pressure Level (Measured in Anechoic Room)* ⁴ | | | dB <A> | 61.0/67.0 | | 62.5/64.0 | |
| Sound Power Level (Measured in Anechoic Room)* ⁴ | | | dB <A> | 80.0/86.5 | | 81.0/83.0 | |
| Refrigerant Piping Diameter | | mm (in.) | | 19.05 (3/4) Brazed | | 19.05 (3/4) Brazed | |
| | | mm (in.) | | 22.2 (7/8) Brazed | | 28.58 (1-1/8) Brazed | |
| Fan | | Type x Quantity | | Propeller fan x 1 | | Propeller fan x 2 | |
| | | m ³ /min L/S | | 240 | | 250 | |
| | | | | 4,000 | | 4,167 | |
| | | Control, Driving Mechanism | | Inverter-control, direct-driven by motor | | Inverter-control, direct-driven by motor | |
| | | Motor Output | | 0.92 x 1 | | 0.46 x 2 | |
| Compressor | | External Static Press.* ⁵ | | 0 Pa | | 0 Pa | |
| | | Type | | Inverter scroll hermetic compressor | | Inverter scroll hermetic compressor | |
| | | Starting Method | | Inverter | | Inverter | |
| | | Motor Output | | 7.9 | | 10.2 | |
| Case Heater | | kW | | - | | - | |
| | | | | | | | |
| External Finish | | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | |
| External Dimension H x W x D | | | mm | 1,858 (1,798 without legs) x 920 x 740 | | 1,858 (1,798 without legs) x 1,240 x 740 | |
| Protection Devices | | High Pressure Protection | | High pressure sensor, high pressure switch at 4.15 MPa (601 psi) | | High pressure sensor, high pressure switch at 4.15 MPa (601 psi) | |
| | | Inverter Circuit (COMP/FAN) | | Over-heat protection, over-current protection | | Over-heat protection, over-current protection | |
| | | Compressor | | - | | - | |
| | | Fan Motor | | - | | - | |
| Refrigerant | | | | | | | |
| Type/GWP | | | | R410A/2088 | | R410A/2088 | |
| | | kg | | 5.2 | | 8.0 | |
| | | kg | | 37.8 | | 41.3 | |
| | | kg | | 43.0 | | 49.3 | |
| Net Weight | | | | 232 | | 277 | |
| Heat Exchanger | | | | Salt-resistant cross fin & copper tube | | Salt-resistant cross fin & copper tube | |
| Defrosting Method | | | | Auto-defrost mode (Reversed refrigerant cycle, Hot gas) | | Auto-defrost mode (Reversed refrigerant cycle, Hot gas) | |
| Optional Parts | | | | Main HBC controller: CMB-WP108, 1016V-GA1 Sub HBC controller: CMB-WP108, 1016V-GB1 | | Main HBC controller: CMB-WP108, 1016V-GA1 Sub HBC controller: CMB-WP108, 1016V-GB1 | |

Notes:

*¹ Nominal cooling conditions (subject to JIS B8615-2)

Indoor: 27°CDB./19°CWB., Outdoor: 35°CDB.

Pipe length: 7.5 m, Level difference: 0 m.

*² Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20°CDB., Outdoor: 7°CDB./6°CWB.

Pipe length: 7.5 m, Level difference: 0 m.

*³ -5°CDB./-6°CWB. to 21°CDB. /15.5°CWB. with cooling/heating mixed operation.

*⁴ Cooling mode/Heating mode

*⁵ External static pressure option is available (30 Pa, 60 Pa, 80 Pa).

Consult your dealer about the specification when setting External static pressure option.

Product Specifications

Outdoor Units



| Outdoor Unit | | | | PURY-P400YNW-A1(-BS) | PURY-P450YNW-A1(-BS) |
|--|--------------------------------------|---------------------|----|---|---|
| Power Source | | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling Capacity [Nominal]* ¹ | | kW | | 45.0 | 50.0 |
| | Power Input | kW | | 16.65 | 17.92 |
| | Current Input | A | | 28.1 - 26.7 - 25.7 | 30.2 - 28.7 - 27.7 |
| | EER | kW / kW | | 2.70 | 2.79 |
| Temp. Range of Cooling* ³ | Indoor | W.B. | | 15.0 ~ 24.0°C | 15.0 ~ 24.0°C |
| | Outdoor | D.B. | | -5.0 ~ 52.0°C | -5.0 ~ 52.0°C |
| Heating Capacity [Nominal]* ² | | kW | | 50.0 | 56.0 |
| | Power Input | kW | | 14.88 | 17.39 |
| | Current Input | A | | 25.1 - 23.8 - 23.0 | 29.3 - 27.8 - 26.8 |
| | COP | kW / kW | | 3.36 | 3.22 |
| Temp. Range of Heating* ³ | Indoor | D.B. | | 15.0 ~ 27.0°C | 15.0 ~ 27.0°C |
| | Outdoor | W.B. | | -20.0 ~ 15.5°C | -20.0 ~ 15.5°C |
| Indoor Unit Connectable | Total Capacity | | | 50 ~ 150% of outdoor unit capacity | 50 ~ 150% of outdoor unit capacity |
| | Model / Quantity | | | WP10 ~ WP125/2 ~ 50 | WP10 ~ WP125/2 ~ 50 |
| Sound Pressure Level (Measured in Anechoic Room)* ⁴ | | dB <A> | | 65.0/69.0 | 65.5/70.0 |
| Sound Power Level (Measured in Anechoic Room)* ⁴ | | dB <A> | | 83.0/88.0 | 83.0/89.0 |
| Refrigerant Piping Diameter | High Pressure | mm (in.) | | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed |
| | Low Pressure | mm (in.) | | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed |
| Fan | Type x Quantity | | | Propeller fan x 2 | Propeller fan x 2 |
| | Air Flow Rate | m ³ /min | | 315 | 315 |
| | | L/S | | 5,250 | 5,250 |
| | Control, Driving Mechanism | | | Inverter-control, direct-driven by motor | Inverter-control, direct-driven by motor |
| | Motor Output | kW | | 0.46 x 2 | 0.46 x 2 |
| | External Static Press.* ⁵ | | | 0 Pa | 0 Pa |
| Compressor | Type | | | Inverter scroll hermetic compressor | Inverter scroll hermetic compressor |
| | Starting Method | | | Inverter | Inverter |
| | Motor Output | kW | | 10.9 | 12.4 |
| | Case Heater | | | - | - |
| External Finish | | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> |
| External Dimension H x W x D | | mm | | 1,858 (1,798 without legs) x 1,240 x 740 | 1,858 (1,798 without legs) x 1,240 x 740 |
| Protection Devices | High Pressure Protection | | | High pressure sensor, high pressure switch at 4.15 MPa (601 psi) | High pressure sensor, high pressure switch at 4.15 MPa (601 psi) |
| | Inverter Circuit (COMP/FAN) | | | Over-heat protection, over-current protection | Over-heat protection, over-current protection |
| | Compressor | | | - | - |
| | Fan Motor | | | - | - |
| Refrigerant | | | | | |
| | Type/GWP | | | R410A/2088 | R410A/2088 |
| | Factory Charged | Weight | kg | 8.0 | 10.8 |
| | Maximum Additional Charge | Weight | kg | 47.3 | 44.5 |
| | Total Charge | Weight | kg | 55.3 | 55.3 |
| Net Weight | | | kg | 277 | 296 |
| Heat Exchanger | | | | Salt-resistant cross fin & copper tube | Salt-resistant cross fin & copper tube |
| Defrosting Method | | | | Auto-defrost mode (Reversed refrigerant cycle, hot gas) | Auto-defrost mode (Reversed refrigerant cycle, hot gas) |
| Optional Parts | | | | Main BC controller: CMB-WP108,1016V-GA1 Sub BC controller: CMB-WP108,1016V-GB1 | Main BC controller: CMB-WP108,1016V-GA1 Sub BC controller: CMB-WP108,1016V-GB1 |

Notes:

*1 Nominal cooling conditions (subject to JIS B8615-2)

Indoor: 27°CDB./19°CWB., Outdoor: 35°CDB.

Pipe length: 7.5 m, Level difference: 0 m.

*2 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20°CDB., Outdoor: 7°CDB./6°CWB.

Pipe length: 7.5 m, Level difference: 0 m.

*3 -5°CDB./-6°CWB. to 21°CDB. /15.5°CWB. with cooling/heating mixed operation.

*4 Cooling mode/Heating mode

*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa).

Consult your dealer about the specification when setting External static pressure option.



| Outdoor Unit | | | | PURY-P500YNW-A1(-BS) | | | |
|--|---------------------------|--------------------------------------|-------------------------------------|--|--|----------|--|
| Power Source | | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | | | |
| Cooling Capacity [Nominal]* ¹ | | | kW | 56.0 | | | |
| | | Power Input | kW | 24.03 | | | |
| | | Current Input | A | 40.5 - 38.5 - 37.1 | | | |
| | | EER | kW / kW | 2.33 | | | |
| Temp. Range of Cooling* ³ | | Indoor | W.B. | 15.0 ~ 24.0°C | | | |
| | | Outdoor | D.B. | -5.0 ~ 52.0°C | | | |
| Heating Capacity [Nominal]* ² | | | kW | 63.0 | | | |
| | | Power Input | kW | 19.09 | | | |
| | | Current Input | A | 32.2 - 30.6 - 29.5 | | | |
| | | COP | kW / kW | 3.30 | | | |
| Temp. Range of Heating* ³ | | Indoor | D.B. | 15.0 ~ 27.0°C | | | |
| | | Outdoor | W.B. | 20.0 ~ 15.5°C | | | |
| Indoor Unit Connectable | | Total Capacity | 50 ~ 150% of outdoor unit capacity | | | | |
| | | Model / Quantity | WP10 ~ WP125/2 ~ 50 | | | | |
| Sound Pressure Level (Measured in Anechoic Room)* ⁴ | | | dB <A> | 63.5/64.5 | | | |
| Sound Power Level (Measured in Anechoic Room)* ⁴ | | | dB <A> | 82.0/84.0 | | | |
| Refrigerant Piping Diameter | | High Pressure | mm (in.) | 22.2 (7/8) Brazed | | | |
| | | Low Pressure | mm (in.) | 28.58 (1-1/8) Brazed | | | |
| Fan | | Type x Quantity | | Propeller fan x 2 | | | |
| | | Air Flow Rate | | m ³ /min | | 295 | |
| | | | | L/S | | 4,917 | |
| | | Control, Driving Mechanism | | Inverter-control, direct-driven by motor | | | |
| | | Motor Output | | kW | | 0.92 x 2 | |
| | | External Static Press.* ⁵ | | 0 Pa (0 mmH ₂ O) | | | |
| Compressor | | Type | Inverter scroll hermetic compressor | | | | |
| | | Starting Method | Inverter | | | | |
| | | Motor Output | kW | 13.0 | | | |
| | | Case Heater | kW | - | | | |
| External Finish | | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | | | |
| External Dimension H x W x D | | | mm | 1,858 (1,798 without legs) x 1,750 x 740 | | | |
| Protection Devices | | High Pressure Protection | | High pressure sensor, high pressure switch at 4.15 MPa (601 psi) | | | |
| | | Inverter Circuit (COMP/FAN) | | Over-heat protection, over-current protection | | | |
| | | Compressor | | - | | | |
| | | Fan Motor | | - | | | |
| Refrigerant | | | | | | | |
| | Type/GWP | | | R410A/2088 | | | |
| | Factory Charged | Weight | kg | 10.8 | | | |
| | Maximum Additional Charge | Weight | kg | 45.2 | | | |
| | Total Charge | Weight | kg | 56.0 | | | |
| Net Weight | | | kg | 340 | | | |
| Heat Exchanger | | | | Salt-resistant cross fin & copper tube | | | |
| Defrosting Method | | | | Auto-defrost mode (Reversed refrigerant cycle, hot gas) | | | |
| Optional Parts | | | | Main BC controller: CMB-WP108, 1016V-GA1 | | | |
| | | | | Sub BC controller: CMB-WP108, 1016V-GR1 | | | |

Notes:

*1 Nominal cooling conditions (subject to JIS B8615-2)

Indoor: 27°CDB./19°CWB., Outdoor: 35°CDB.

Pipe length: 7.5 m, Level difference: 0 m.

*2 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20°CDB., Outdoor: 7°CDB./6°CWB.

Pipe length: 7.5 m, Level difference: 0 m.

*3 -5°CDB./-6°CWB. to 21°CDB./15.5°CWB. with cooling/heating mixed operation.

*4 Cooling mode/Heating mode

*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa).

Consult your dealer about the specification when setting External static pressure option.

Product Specifications

Outdoor Units



| Outdoor Unit | | | | PURY-EP200YNW-A1(-BS) | | PURY-EP250YNW-A1(-BS) | |
|--|---------------------------|--------------------------------------|---------------------|---|--|---|--|
| Power Source | | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | | 3-phase 4-wire 380-400-415 V 50/60 Hz | |
| Cooling Capacity [Nominal]* ¹ | | | kW | 22.4 | | 28.0 | |
| | | Power Input | kW | 5.84 | | 8.77 | |
| | | Current Input | A | 9.8 - 9.3 - 9.0 | | 14.8 - 14.0 - 13.5 | |
| | | EER | kW / kW | 3.83 | | 3.19 | |
| Temp. Range of Cooling* ³ | | Indoor | W.B. | 15.0 ~ 24.0°C | | 15.0 ~ 24.0°C | |
| | | Outdoor | D.B. | -5.0 ~ 52.0°C | | -5.0 ~ 52.0°C | |
| Heating Capacity [Nominal]* ² | | | kW | 25.0 | | 31.5 | |
| | | Power Input | kW | 6.49 | | 9.84 | |
| | | Current Input | A | 10.9 - 10.4 - 10.0 | | 16.6 - 15.7 - 15.2 | |
| | | COP | kW / kW | 3.85 | | 3.20 | |
| Temp. Range of Heating* ³ | | Indoor | D.B. | 15.0 ~ 27.0°C | | 15.0 ~ 27.0°C | |
| | | Outdoor | W.B. | -20.0 ~ 15.5°C | | -20.0 ~ 15.5°C | |
| Indoor Unit Connectable | | Total Capacity | | 50 ~ 150% of outdoor unit capacity | | 50 ~ 150% of outdoor unit capacity | |
| | | Model / Quantity | | WP10 ~ WP125/1 ~ 30 | | WP10 ~ WP125/1 ~ 37 | |
| Sound Pressure Level (Measured in Anechoic Room)* ⁴ | | | dB <A> | 59.0/59.0 | | 60.5/61.0 | |
| Sound Power Level (Measured in Anechoic Room)* ⁴ | | | dB <A> | 76.0/78.0 | | 78.5/80.0 | |
| Refrigerant Piping Diameter | | High Pressure | mm (in.) | 15.88 (5/8) Brazed | | 19.05 (3/4) Brazed | |
| | | Low Pressure | mm (in.) | 19.05 (3/4) Brazed | | 22.2 (7/8) Brazed | |
| Fan | | Type x Quantity | | Propeller fan x 1 | | Propeller fan x 1 | |
| | | Air Flow Rate | m ² /min | 170 | | 185 | |
| | | | L/S | 2,833 | | 3,083 | |
| | | Control, Driving Mechanism | | Inverter-control, direct-driven by motor | | Inverter-control, direct-driven by motor | |
| | | Motor Output | kW | 0.92 x 1 | | 0.92 x 1 | |
| | | External Static Press.* ⁵ | | 0 Pa | | 0 Pa | |
| Compressor | | Type | | Inverter scroll hermetic compressor | | Inverter scroll hermetic compressor | |
| | | Starting Method | | Inverter | | Inverter | |
| | | Motor Output | kW | 5.6 | | 7.0 | |
| | | Case Heater | kW | - | | - | |
| External Finish | | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | |
| External Dimension H x W x D | | | mm | 1,858 (1,798 without legs) x 920 x 740 | | 1,858 (1,798 without legs) x 920 x 740 | |
| Protection Devices | | High Pressure Protection | | High pressure sensor, high pressure switch at 4.15 MPa (601 psi) | | High pressure sensor, high pressure switch at 4.15 MPa (601 psi) | |
| | | Inverter Circuit (COMP/FAN) | | Over-heat protection, over-current protection | | Over-heat protection, over-current protection | |
| | | Compressor | | - | | - | |
| | | Fan Motor | | - | | - | |
| Refrigerant | | | | | | | |
| | Type/GWP | | | R410A/2088 | | R410A/2088 | |
| | Factory Charged | Weight | kg | 5.2 | | 5.2 | |
| | Maximum Additional Charge | Weight | kg | 28.3 | | 34.3 | |
| | Total Charge | Weight | kg | 33.5 | | 39.5 | |
| Net Weight | | | | 219 | | 228 | |
| Heat Exchanger | | | | Salt-resistant cross fin & aluminium tube | | Salt-resistant cross fin & aluminium tube | |
| Defrosting Method | | | | Auto-defrost mode (Reversed refrigerant cycle, hot gas) | | Auto-defrost mode (Reversed refrigerant cycle, hot gas) | |
| Optional Parts | | | | Main BC controller: CMB-WP108,1016V-GA1 Sub BC controller: CMB-WP108,1016V-GB1 | | Main BC controller: CMB-WP108,1016V-GA1 Sub BC controller: CMB-WP108,1016V-GB1 | |

Notes:

*1 Nominal cooling conditions (subject to JIS B8615-2)

Indoor: 27°CDB./19°CWB., Outdoor: 35°CDB.

Pipe length: 7.5 m, Level difference: 0 m.

*2 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20°CDB., Outdoor: 7°CDB./6°CWB.

Pipe length: 7.5 m, Level difference: 0 m.

*3 -5°CDB./-6°CWB. to 21°CDB. /15.5°CWB. with cooling/heating mixed operation.

*4 Cooling mode/Heating mode

*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa).

Consult your dealer about the specification when setting External static pressure option.



| Outdoor Unit | | | | PURY-EP300YNW-A1(-BS) | | PURY-EP350YNW-A1(-BS) | |
|--|--|--------------------------------------|------------|---|------------|---|--|
| Number of HBC Controller | | | | Single HBC | | Double HBC | |
| Power Source | | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | | 3-phase 4-wire 380-400-415 V 50/60 Hz | |
| Cooling Capacity [Nominal]* ¹ | | | | 33.5 | | 40.0 | |
| | | Power Input | kW | 12.05 | | 14.76 | |
| | | Current Input | A | 20.3 - 19.3 - 18.6 | | 24.9 - 23.6 - 22.8 | |
| | | EER | kW / kW | 2.78 | | 2.71 | |
| Temp. Range of Cooling* ³ | | Indoor | W.B. | 15.0 ~ 24.0°C | | 15.0 ~ 24.0°C | |
| | | Outdoor | D.B. | -5.0 ~ 52.0°C | | -5.0 ~ 52.0°C | |
| Heating Capacity [Nominal]* ² | | | | 37.5 | | 45.0 | |
| | | Power Input | kW | 11.71 | | 13.88 | |
| | | Current Input | A | 19.7 - 18.7 - 18.1 | | 23.4 - 22.2 - 21.4 | |
| | | COP | kW / kW | 3.20 | | 3.24 | |
| Temp. Range of Heating* ³ | | Indoor | D.B. | 15.0 ~ 27.0°C | | 15.0 ~ 27.0°C | |
| | | Outdoor | W.B. | -20.0 ~ 15.5°C | | -20.0 ~ 15.5°C | |
| Indoor Unit Connectable | | Total Capacity | | 50 ~ 150% of outdoor unit capacity | | 50 ~ 150% of outdoor unit capacity | |
| | | Model / Quantity | | WP10 ~ WP125/2 ~ 45 | | WP10 ~ WP125/2 ~ 50 | |
| Sound Pressure Level (Measured in Anechoic Room)* ⁴ | | | dB <A> | 61.0/67.0 | | 62.5/64.0 | |
| Sound Power Level (Measured in Anechoic Room)* ⁴ | | | dB <A> | 80.0/86.5 | | 81.0/83.0 | |
| Refrigerant Piping Diameter | | High Pressure | mm (in.) | 19.05 (3/4) Brazed | | 19.05 (3/4) Brazed | |
| | | Low Pressure | mm (in.) | 22.2 (7/8) Brazed | | 28.58 (1-1/8) Brazed | |
| Fan | | Type x Quantity | | Propeller fan x 1 | | Propeller fan x 2 | |
| | | Air Flow Rate | | 240 | | 250 | |
| | | | | L/S | | 4,000 | |
| | | Control, Driving Mechanism | | Inverter-control, direct-driven by motor | | Inverter-control, direct-driven by motor | |
| | | Motor Output | kW | 0.92 x 1 | | 0.46 x 2 | |
| | | External Static Press.* ⁵ | | 0 Pa | | 0 Pa | |
| Compressor | | Type | | Inverter scroll hermetic compressor | | Inverter scroll hermetic compressor | |
| | | Starting Method | | Inverter | | Inverter | |
| | | Motor Output | kW | 7.9 | | 10.2 | |
| | | Case Heater | | kW | | - | |
| External Finish | | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | |
| External Dimension H x W x D | | | mm | 1,858 (1,798 without legs) x 920 x 740 | | 1,858 (1,798 without legs) x 1,240 x 740 | |
| Protection Devices | | High Pressure Protection | | High pressure sensor, high pressure switch at 4.15 MPa (601 psi) | | High pressure sensor, high pressure switch at 4.15 MPa (601 psi) | |
| | | Inverter Circuit (COMP/FAN) | | Over-heat protection, over-current protection | | Over-heat protection, over-current protection | |
| | | Compressor | | - | | - | |
| | | Fan Motor | | - | | - | |
| Refrigerant | | | | | | | |
| | | Type/GWP | R410A/2088 | | R410A/2088 | | |
| | | Factory Charged | Weight | kg | 5.2 | | |
| | | Maximum Additional Charge | Weight | kg | 34.3 | | |
| | | Total Charge | Weight | kg | 39.5 | | |
| Net Weight | | | | 230 | | 275 | |
| Heat Exchanger | | | | Salt-resistant cross fin & aluminium tube | | Salt-resistant cross fin & aluminium tube | |
| Defrosting Method | | | | Auto-defrost mode (Reversed refrigerant cycle, hot gas) | | Auto-defrost mode (Reversed refrigerant cycle, hot gas) | |
| Optional Parts | | | | Main HBC controller: CMB-WP108, 1016V-GA1 Sub HBC controller: CMB-WP108, 1016V-GB1 | | Main HBC controller: CMB-WP108, 1016V-GA1 Sub HBC controller: CMB-WP108, 1016V-GB1 | |

Notes:

*1 Nominal cooling conditions (subject to JIS B8615-2)

Indoor: 27°C D.B./19°C W.B., Outdoor: 35°C D.B.

Pipe length: 7.5 m, Level difference: 0 m.

*2 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20°C D.B., Outdoor: 7°C D.B./6°C W.B.

Pipe length: 7.5 m, Level difference: 0 m.

*3 -5°C D.B./-6°C W.B. to 21°C D.B./15.5°C W.B. with cooling/heating mixed operation.

*4 Cooling mode/Heating mode

*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa).

Consult your dealer about the specification when setting External static pressure option.

Product Specifications

Outdoor Units



| Outdoor Unit | | | | PURY-EP400YNW-A1(-BS) | PURY-EP450YNW-A1(-BS) |
|--|--------------------------------------|------------------------------------|---|---|---------------------------------------|
| Power Source | | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling Capacity [Nominal]* ¹ | | kW | 45.0 | 50.0 | |
| | Power Input | kW | 14.28 | 16.83 | |
| | Current Input | A | 24.1 - 22.9 - 22.0 | 28.4 - 26.9 - 26.0 | |
| | EER | kW / kW | 3.15 | 2.97 | |
| Temp. Range of Cooling* ³ | Indoor | W.B. | 15.0 ~ 24.0°C | 15.0 ~ 24.0°C | |
| | Outdoor | D.B. | -5.0 ~ 52.0°C | -5.0 ~ 52.0°C | |
| Heating Capacity [Nominal]* ² | | kW | 50.0 | 56.0 | |
| | Power Input | kW | 14.12 | 16.86 | |
| | Current Input | A | 23.8 - 22.6 - 21.8 | 28.4 - 27.0 - 26.0 | |
| | COP | kW / kW | 3.54 | 3.32 | |
| Temp. Range of Heating* ³ | Indoor | D.B. | 15.0 ~ 27.0°C | 15.0 ~ 27.0°C | |
| | Outdoor | W.B. | -20.0 ~ 15.5°C | -20.0 ~ 15.5°C | |
| Indoor Unit Connectable | Total Capacity | 50 ~ 150% of outdoor unit capacity | | 50 ~ 150% of outdoor unit capacity | |
| | Model / Quantity | WP10 ~ WP125/2 ~ 50 | | WP10 ~ WP125/2 ~ 50 | |
| Sound Pressure Level (Measured in Anechoic Room)* ⁴ | | dB <A> | 65.0/69.0 | 65.5/70.0 | |
| Sound Power Level (Measured in Anechoic Room)* ⁴ | | dB <A> | 83.0/88.0 | 83.0/89.0 | |
| Refrigerant Piping Diameter | High Pressure | mm (in.) | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed | |
| | Low Pressure | mm (in.) | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | |
| Fan | Type x Quantity | | Propeller fan x 2 | Propeller fan x 2 | |
| | Air Flow Rate | m³/min | 315 | 315 | |
| | | L/S | 5,250 | 5,250 | |
| | Control, Driving Mechanism | | Inverter-control, direct-driven by motor | Inverter-control, direct-driven by motor | |
| | Motor Output | kW | 0.46 x 2 | 0.46 x 2 | |
| | External Static Press.* ⁵ | | 0 Pa | 0 Pa | |
| Compressor | Type | | Inverter scroll hermetic compressor | Inverter scroll hermetic compressor | |
| | Starting Method | | Inverter | Inverter | |
| | Motor Output | kW | 10.9 | 12.4 | |
| | Case Heater | kW | - | - | |
| External Finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | |
| External Dimension H x W x D | | mm | 1,858 (1,798 without legs) x 1,240 x 740 | 1,858 (1,798 without legs) x 1,240 x 740 | |
| Protection Devices | High Pressure Protection | | High pressure sensor, high pressure switch at 4.15 MPa | High pressure sensor, high pressure switch at 4.15 MPa | |
| | Inverter Circuit (COMP./FAN) | | Over-heat protection, over-current protection | Over-heat protection, over-current protection | |
| | Compressor | | - | - | |
| | Fan Motor | | - | - | |
| Refrigerant | | | | | |
| | Type/GWP | | R410A/2088 | R410A/2088 | |
| | Factory Charged | Weight | kg | 10.8 | |
| | Maximum Additional Charge | Weight | kg | 44.7 | |
| | Total Charge | Weight | kg | 55.5 | |
| Net Weight | | | 276 | 301 | |
| Heat Exchanger | | | Salt-resistant cross fin & aluminium tube | Salt-resistant cross fin & aluminium tube | |
| Defrosting Method | | | Auto-defrost mode (Reversed refrigerant cycle, hot gas) | Auto-defrost mode (Reversed refrigerant cycle, hot gas) | |
| Optional Parts | | | Main BC controller: CMB-WP108,1016V-GA1 Sub BC controller: CMB-WP108,1016V-GB1z | Main BC controller: CMB-WP108,1016V-GA1 Sub BC controller: CMB-WP108,1016V-GB1 | |

Notes:

*1 Nominal cooling conditions (subject to JIS B8615-2)

Indoor: 27°CDB./19°CWB., Outdoor: 35°CDB.

Pipe length: 7.5 m, Level difference: 0 m.

*2 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20°CDB., Outdoor: 7°CDB./6°CWB.

Pipe length: 7.5 m, Level difference: 0 m.

*3 -5°CDB./-6°CWB. to 21°CDB./15.5°CWB. with cooling/heating mixed operation.

*4 Cooling mode/Heating mode

*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa).

Consult your dealer about the specification when setting External static pressure option.



| Outdoor Unit | | | | PURY-EP500YNW-A1(-BS) | |
|--|---------------------------|--------|--------|---|--|
| Power Source | | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | |
| Cooling Capacity [Nominal]* ¹ | | | | kW | |
| | | | | 56.0 | |
| | | | | Power Input | |
| | | | | kW | |
| | | | | 21.22 | |
| | | | | Current Input | |
| | | | | A | |
| | | | | 35.8 - 34.0 - 32.8 | |
| | | | | EER | |
| | | | | kW / kW | |
| | | | | 2.63 | |
| Temp. Range of Cooling* ³ | | | | Indoor | |
| | | | | W.B. | |
| | | | | 15.0 ~ 24.0°C | |
| | | | | Outdoor | |
| | | | | D.B. | |
| | | | | -5.0 ~ 52.0°C | |
| Heating Capacity [Nominal]* ² | | | | kW | |
| | | | | 63.0 | |
| | | | | Power Input | |
| | | | | kW | |
| | | | | 19.74 | |
| | | | | Current Input | |
| | | | | A | |
| | | | | 33.3 - 31.6 - 30.5 | |
| | | | | COP | |
| | | | | kW / kW | |
| | | | | 3.19 | |
| Temp. Range of Heating* ³ | | | | Indoor | |
| | | | | D.B. | |
| | | | | 15.0 ~ 27.0°C | |
| | | | | Outdoor | |
| | | | | W.B. | |
| | | | | -20.0 ~ 15.5°C | |
| Indoor Unit Connectable | | | | Total Capacity | |
| | | | | 50 ~ 150% of outdoor unit capacity | |
| | | | | Model / Quantity | |
| | | | | WP10 ~ WP125/2 ~ 50 | |
| Sound Pressure Level (Measured in Anechoic Room)* ⁴ | | | dB <A> | 63.5/64.5 | |
| Sound Power Level (Measured in Anechoic Room)* ⁴ | | | dB <A> | 82.0/84.0 | |
| Refrigerant Piping Diameter | | | | High Pressure | |
| | | | | mm (in.) | |
| | | | | 22.2 (7/8) Brazed | |
| | | | | Low Pressure | |
| | | | | mm (in.) | |
| | | | | 28.58 (1-1/8) Brazed | |
| Fan | | | | Type x Quantity | |
| | | | | Propeller fan x 2 | |
| | | | | Air Flow Rate | |
| | | | | m ³ /min | |
| | | | | 295 | |
| | | | | L/S | |
| | | | | 4,917 | |
| | | | | Control, Driving Mechanism | |
| | | | | Inverter-control, direct-driven by motor | |
| | | | | Motor Output | |
| | | | | kW | |
| | | | | 0.92 x 2 | |
| | | | | External Static Press.* ⁵ | |
| | | | | 0 Pa (0 mmH ₂ O) | |
| Compressor | | | | Type | |
| | | | | Inverter scroll hermetic compressor | |
| | | | | Starting Method | |
| | | | | Inverter | |
| | | | | Motor Output | |
| | | | | kW | |
| | | | | 13.0 | |
| | | | | Case Heater | |
| | | | | - | |
| External Finish | | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) | |
| | | | | <MUNSELL 5Y 8/1 or similar> | |
| External Dimension H x W x D | | | | mm | |
| | | | | 1,858 (1,798 without legs) x 1,750 x 740 | |
| Protection Devices | | | | High Pressure Protection | |
| | | | | Inverter Circuit (COMP/FAN) | |
| | | | | High pressure sensor, high pressure switch at 4.15 MPa (601 psi) | |
| | | | | Compressor | |
| | | | | Over-heat protection, over-current protection | |
| | | | | Fan Motor | |
| | | | | - | |
| Refrigerant | | | | | |
| | Type/GWP | | | R410A/2088 | |
| | Factory Charged | Weight | kg | 10.8 | |
| | Maximum Additional Charge | Weight | kg | 45.2 | |
| | Total Charge | Weight | kg | 56.0 | |
| Net Weight | | | | kg | |
| | | | | 346 | |
| Heat Exchanger | | | | Salt-resistant cross fin & aluminium tube | |
| Defrosting Method | | | | Auto-defrost mode (Reversed refrigerant cycle, hot gas) | |
| Optional Parts | | | | Main BC controller: CMB-WP108,1016V-GA1 | |
| | | | | Sub BC controller: CMB-WP108,1016V-GB1 | |

Notes:

*1 Nominal cooling conditions (subject to JIS B8615-2)

Indoor: 27°CDB./19°CWB., Outdoor: 35°CDB.

Pipe length: 7.5 m, Level difference: 0 m

*2 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20°CDB., Outdoor: 7°CDB./6°CWB.

Pipe length: 7.5 m, Level difference: 0 m.

*3 -5°CDB./-6°CWB. to 21°CDB./15.5°CWB. with cooling/heating mixed operation.

*4 Cooling mode/Heating mode

*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa).

Consult your dealer about the specification when setting External static pressure option.

Product Specifications

Heat Source Units



| Heat Source Unit | | | | PQRY-P200YLM-A1 | PQRY-P250YLM-A1 | | |
|--|---------------------------|--------------------------|----------|---|---|-----|-----|
| Power Source | | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz | | |
| Cooling Capacity [Nominal] ⁺¹ | | | kW | 22.4 | 28.0 | | |
| | | Power Input | kW | 3.97 | 5.44 | | |
| | | Current Input | A | 6.7 - 6.3 - 6.1 | 9.1 - 8.7 - 8.4 | | |
| | | EER | kW / kW | 5.64 | 5.14 | | |
| Temp. Range of Cooling | | Indoor | W.B. | 15.0 ~ 24.0°C | 15.0 ~ 24.0°C | | |
| | | Circulating Water | °C | 10.0 ~ 45.0°C | 10.0 ~ 45.0°C | | |
| Heating Capacity [Nominal] ⁺² | | | kW | 25.0 | 31.5 | | |
| | | Power Input | kW | 4.04 | 5.41 | | |
| | | Current Input | A | 6.8 - 6.4 - 6.2 | 9.1 - 8.6 - 8.3 | | |
| | | COP | kW / kW | 6.18 | 5.82 | | |
| Temp. Range of Heating | | Indoor | D.B. | 15.0 ~ 27.0°C | 15.0 ~ 27.0°C | | |
| | | Circulating Water | °C | 10.0 ~ 45.0°C | 10.0 ~ 45.0°C | | |
| Indoor Unit Connectable | | Total Capacity | | 50 ~ 150% of heat source unit capacity | 50 ~ 150% of heat source unit capacity | | |
| | | Model / Quantity | | WP10 ~ WP125/1 ~ 30 | WP10 ~ WP125/1 ~ 37 | | |
| Sound Pressure Level (Measured in Anechoic Room) | | | dB <A> | 46 | 48 | | |
| Refrigerant Piping Diameter | | High Pressure | mm (in.) | 15.88 (5/8) Brazed | 19.05 (3/4) Brazed | | |
| | | Low Pressure | mm (in.) | 19.05 (3/4) Brazed | 22.2 (7/8) Brazed | | |
| Circulating Water | | Water Flow Rate | m³/h | 5.76 | 5.76 | | |
| | | | L/min | 96 | 96 | | |
| | | Pressure Drop | kPa | 24 | 24 | | |
| | | Operating Volume Range | m³/h | 3.0 ~ 7.2 | 3.0 ~ 7.2 | | |
| Compressor | | Type | | Inverter scroll hermetic compressor | Inverter scroll hermetic compressor | | |
| | | Starting Method | | Inverter | Inverter | | |
| | | Motor Output | kW | 4.8 | 6.2 | | |
| | | Case Heater | kW | — | — | | |
| External Finish | | | | Galvanized steel sheets | Galvanized steel sheets | | |
| External Dimension H x W x D | | | mm | 1,100 x 880 x 550 | 1,100 x 880 x 550 | | |
| | | | in. | 43-5/16 x 34-11/16 x 21-11/16 | 43-5/16 x 34-11/16 x 21-11/16 | | |
| Protection Devices | | High Pressure Protection | | High pressure sensor, high pressure switch at 4.15 MPa (601 psi) | High pressure sensor, high pressure switch at 4.15 MPa (601 psi) | | |
| | | Inverter Circuit (COMP) | | Over-heat protection, over-current protection | Over-heat protection, over-current protection | | |
| | | Compressor | | Over-heat protection | Over-heat protection | | |
| Refrigerant | | | | | | | |
| | Type/GWP | | | R410A/2088 | R410A/2088 | | |
| | Factory Charged | Weight | kg | 5.0 | 5.0 | | |
| | Maximum Additional Charge | Weight | kg | 27.0 | 32.0 | | |
| | Total Charge | Weight | kg | 32.0 | 37.0 | | |
| | | | kg | | | | |
| Net Weight | | | kg | 170 | 170 | | |
| Heat Exchanger | | | | Plate type | Plate type | | |
| | | | | Water Volume in Plate | L | 5.0 | 5.0 |
| | | | | Water Pressure Max. | MPa | 2.0 | 2.0 |
| Optional Parts | | | | Main HBC controller: CMB-WP108, 1016-GA1 Sub HBC controller: CMB-WP108, 1016-GB1 | Main HBC controller: CMB-WP108, 1016V-GA1 Sub HBC controller: CMB-WP108, 1016V-GB1 | | |

Notes:

- *1 Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CDB./19°CWB., Water temperature: 30°C
Pipe length: 7.5 m, Level difference: 0 m.
- *2 Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CDB., Water temperature: 20°C
Pipe length: 7.5 m, Level difference: 0 m.

*This table is based on Regulation (EU) No517/2014.



| Heat Source Unit | | | | PQR-P300YLM-A1 | | PQR-P350YLM-A1 | |
|--|---------------|--|---------|---|--|---|--|
| Number of HBC Controller | | | | Single HBC | | Single HBC | |
| Power Source | | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | | 3-phase 4-wire 380-400-415 V 50/60 Hz | |
| Cooling Capacity [Nominal]* ¹ | | | | 33.5 | | 40.0 | |
| | Power Input | | kW | 7.55 | | 9.98 | |
| | Current Input | | A | 12.7 - 12.1 - 11.6 | | 16.8 - 16.0 - 15.4 | |
| | EER | | kW / kW | 4.43 | | 4.00 | |
| | | | | 4.99 | | 4.58 | |
| Temp. Range of Cooling | | | | 15.0 ~ 24.0°C | | 15.0 ~ 24.0°C | |
| Circulating Water | | | | °C | | 10.0 ~ 45.0°C | |
| Heating Capacity [Nominal]* ² | | | | 37.5 | | 45.0 | |
| | Power Input | | kW | 7.13 | | 8.87 | |
| | Current Input | | A | 12.0 - 11.4 - 11.0 | | 14.9 - 14.2 - 13.7 | |
| | COP | | kW / kW | 5.25 | | 5.07 | |
| | | | | 5.52 | | 5.45 | |
| Temp. Range of Heating | | | | 15.0 ~ 27.0°C | | 15.0 ~ 27.0°C | |
| Circulating Water | | | | °C | | 10.0 ~ 45.0°C | |
| Indoor Unit Connectable | | | | 50 ~ 150% of heat source unit capacity | | 50 ~ 150% of heat source unit capacity | |
| Model / Quantity | | | | WP10 ~ WP125/2~45 | | WP10 ~ WP125/2~50 | |
| Sound Pressure Level (measured in anechoic room) | | | | dB <A> | | 52 | |
| Refrigerant Piping Diameter | | | | mm (in.) | | 22.2 (7/8) Brazed | |
| High pressure | | | | 19.05 (3/4) Brazed | | 22.2 (7/8) Brazed | |
| Low pressure | | | | 22.2 (7/8) Brazed | | 28.58 (1-1/8) Brazed | |
| Circulating Water | | | | m ³ /h | | 7.20 | |
| Water Flow Rate | | | | L/min | | 120 | |
| Pressure Drop | | | | kPa | | 44 | |
| Operating Volume Range | | | | m ³ /h | | 4.5 ~ 11.6 | |
| Compressor | | | | Type | | Inverter scroll hermetic compressor | |
| Starting Method | | | | Inverter | | Inverter | |
| Motor Output | | | | kW | | 9.5 | |
| Case Heater | | | | kW | | - | |
| External Finish | | | | Galvanized steel sheets | | Galvanized steel sheets | |
| External Dimension H x W x D | | | | mm | | 1,100 x 880 x 550 | |
| Protection Devices | | | | High Pressure Protection | | High pressure sensor, high pressure switch at 4.15 MPa (601 psi) | |
| Inverter Circuit (COMP) | | | | Over-heat protection, over-current protection | | Over-heat protection, over-current protection | |
| Compressor | | | | Over-heat protection | | Over-heat protection | |
| Refrigerant | | | | R410A/2088 | | R410A/2088 | |
| Type/GWP | | | | 5.0 | | 6.0 | |
| Factory Charged | | | | Weight | | kg | |
| Maximum Additional Charge | | | | Weight | | kg | |
| Total Charge | | | | Weight | | kg | |
| Net Weight | | | | kg | | 58.0 | |
| Heat Exchanger | | | | Plate type | | Plate type | |
| Water Volume in Plate | | | | L | | 5.0 | |
| Water Pressure Max. | | | | MPa | | 2.0 | |
| Optional Parts | | | | Main HBC controller: CMB-WP108, 1016V-GA1 Sub HBC controller: CMB-WP108, 1016V-GR1 | | Main HBC controller: CMB-WP108, 1016V-GA1 Sub HBC controller: CMB-WP108, 1016V-GR1 | |

Notes:

- *1 Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CDB./19°CWB., Water temperature: 30°C
Pipe length: 7.5 m, Level difference: 0 m.
- *2 Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CDB., Water temperature: 20°C
Pipe length: 7.5 m, Level difference: 0 m.

*This table is based on Regulation (EU) No517/2014.

Product Specifications

Heat Source Units



| Heat Source Unit | | | | PQRY-P400YLM-A1 | PQRY-P450YLM-A1 |
|--|---------------------------|-------------------|----|--|---|
| Power Source | | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | |
| Cooling Capacity [Nominal]* ¹ | | | | 50.0 | |
| | Power Input | kW | | 45.0 | 50.0 |
| | Current Input | A | | 10.05 | 12.05 |
| | EER | kW / kW | | 16.9 - 16.1 - 15.5 | 20.3 - 19.3 - 18.6 |
| | | | | 4.47 | 4.14 |
| Temp. Range of Cooling | | | | 15.0 ~ 24.0°C | |
| | Indoor | W.B. | | 15.0 ~ 24.0°C | 15.0 ~ 24.0°C |
| | Circulating Water | °C | | 10.0 ~ 45.0°C | 10.0 ~ 45.0°C |
| Heating Capacity [Nominal]* ² | | | | 56.0 | |
| | Power Input | kW | | 50.0 | 56.0 |
| | Current Input | A | | 9.45 | 11.11 |
| | COP | kW / kW | | 15.9 - 15.1 - 14.6 | 18.7 - 17.8 - 17.1 |
| | | | | 5.29 | 5.04 |
| Temp. Range of Heating | | | | 15.0 ~ 27.0°C | |
| | Indoor | D.B. | | 15.0 ~ 27.0°C | 15.0 ~ 27.0°C |
| | Circulating Water | °C | | 10.0 ~ 45.0°C | 10.0 ~ 45.0°C |
| Indoor Unit Connectable | | | | 50 ~ 150% of heat source unit capacity | |
| | Total Capacity | | | 50 ~ 150% of heat source unit capacity | 50 ~ 150% of heat source unit capacity |
| | Model / Quantity | | | WP10 ~ WP125/2 ~ 50 | WP10 ~ WP125/2 ~ 50 |
| Sound Pressure Level (Measured in Anechoic Room) | | | | 52 | |
| Refrigerant Piping Diameter | High Pressure | mm (in.) | | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed |
| | Low Pressure | mm (in.) | | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed |
| Circulating Water | | | | 7.20 | |
| | Water Flow Rate | m ³ /h | | 7.20 | 7.20 |
| | | L/min | | 120 | 120 |
| | Pressure Drop | kPa | | 44 | 44 |
| | Operating Volume Range | m ³ /h | | 4.5 ~ 11.6 | 4.5 ~ 11.6 |
| Compressor | | | | Inverter scroll hermetic compressor | |
| | Type | | | Inverter | Inverter |
| | Starting Method | | | 10.7 | 11.6 |
| | Motor Output | kW | | — | — |
| | Case Heater | kW | | — | — |
| External Finish | | | | Galvanized steel sheets | |
| External Dimension H x W x D | | | | 1,450 x 880 x 550 | |
| Protection Devices | | | | High pressure sensor, high pressure switch at 4.15 MPa (601 psi) | |
| | High Pressure Protection | | | Over-heat protection, over-current protection | Over-heat protection, over-current protection |
| | Inverter Circuit (COMP) | | | Over-heat protection | Over-heat protection |
| Refrigerant | | | | R410A/2088 | |
| | Type/GWP | | | 6.0 | 6.0 |
| | Factory Charged | Weight | kg | 52.0 | 53.0 |
| | Maximum Additional Charge | Weight | kg | 58.0 | 59.0 |
| | Total Charge | Weight | kg | 214 | 214 |
| Net Weight | | | | Plate type | |
| Heat Exchanger | | | | 5.0 | |
| | Water Volume in Plate | L | | 2.0 | 2.0 |
| | Water Pressure Max. | MPa | | Main HBC controller: CMB-WP108, 1016V-GA1 | Main HBC controller: CMB-WP108, 1016V-GA1 |
| Optional Parts | | | | Sub HBC controller: CMB-WP108, 1016V-GB1 | |

Notes:

- *1 Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°C D.B./19°C W.B., Water temperature: 30°C
Pipe length: 7.5 m, Level difference: 0 m.
- *2 Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°C D.B., Water temperature: 20°C
Pipe length: 7.5 m, Level difference: 0 m.

*This table is based on Regulation (EU) No 517/2014.



| Heat Source Unit | | | | PQRY-P500YLM-A1 | |
|--|---------------------------|--------|--|---|-----|
| Power Source | | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | |
| Cooling Capacity [Nominal]* ¹ | | | kW | 56.0 | |
| | Power Input | | kW | 14.58 | |
| | Current Input | | A | 24.6 - 23.3 - 22.5 | |
| | EER | | kW / kW | 3.84 | |
| Temp. Range of Cooling | Indoor | | W.B. | 15.0 ~ 24.0°C | |
| | Circulating Water | | °C | 10.0 ~ 45.0°C | |
| Heating Capacity [Nominal]* ² | | | kW | 63.0 | |
| | Power Input | | kW | 13.07 | |
| | Current Input | | A | 22.0 - 20.9 - 20.2 | |
| | COP | | kW / kW | 4.82 | |
| Temp. Range of Heating | Indoor | | D.B. | 15.0 ~ 27.0°C | |
| | Circulating Water | | °C | 10.0 ~ 45.0°C | |
| Indoor Unit Connectable | Total Capacity | | 50 ~ 150% of heat source unit capacity | | |
| | Model / Quantity | | WP10 ~ WP125/2~50 | | |
| Sound Pressure Level (Measured in Anechoic Room) | | | dB <A> | 54 | |
| Refrigerant Piping Diameter | High Pressure | | mm (in.) | 22.2 (7/8) Brazed | |
| | Low Pressure | | mm (in.) | 28.58 (1-1/8) Brazed | |
| Circulating Water | Water Flow Rate | | m³/h | 7.20 | |
| | | | L/min | 120 | |
| | Pressure Drop | | kPa | 44 | |
| | Operating Volume Range | | m³/h | 4.5 ~ 11.6 | |
| Compressor | Type | | Inverter scroll hermetic compressor | | |
| | Starting Method | | Inverter | | |
| | Motor Output | | kW | 13.0 | |
| | Case Heater | | kW | - | |
| External Finish | | | | Galvanized steel sheets | |
| External Dimension H x W x D | | | mm | 1,450 x 880 x 550 | |
| Protection Devices | High Pressure Protection | | High pressure sensor, high pressure switch at 4.15 MPa (601 psi) | | |
| | Inverter Circuit (COMP) | | Over-heat protection, over-current protection | | |
| | Compressor | | Over-heat protection | | |
| Refrigerant | | | | | |
| | Type/GWP | | | R410A/2088 | |
| | Factory Charged | Weight | kg | 6.0 | |
| | Maximum Additional Charge | Weight | kg | 55.0 | |
| | Total Charge | Weight | kg | 61.0 | |
| Net Weight | | | kg | 214 | |
| Heat Exchanger | | | | Plate type | |
| | | | Water Volume in Plate | L | 5.0 |
| | | | Water Pressure Max. | MPa | 2.0 |
| Optional Parts | | | | Main HBC controller: CMB-WP108, 1016V-GA1 Sub HBC controller: CMB-WP108, 1016V-GB1 | |

Notes:

- *1 Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°C D.B./19°C W.B., Water temperature: 30°C
Pipe length: 7.5 m, Level difference: 0 m.
- *2 Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°C D.B., Water temperature: 20°C
Pipe length: 7.5 m, Level difference: 0 m.

*This table is based on Regulation (EU) No517/2014.

Optional Parts

Optional Parts for Outdoor Unit

| Description | Model | Remarks |
|---------------------|---------------|--|
| Fin Guard | PAC-FG01S-E | For side surfaces of (E)M200–450 (a set of two pieces) |
| | PAC-FG02S-E | For side surfaces of (E)M500 (a set of two pieces) |
| | PAC-FG01B-E | For rear surface of (E)M200–300 |
| | PAC-FG02B-E | For rear surface of (E)M350–450 (a set of two pieces) |
| | PAC-FG03B-E | For rear surface of (E)M500 (a set of two pieces) |
| Panel Heater Kit *1 | PAC-PH01EHY-E | For (E)M200–300 |
| | PAC-PH02EHY-E | For (E)M350–450 |
| | PAC-PH03EHY-E | For (E)M500 |

*1. If there is a risk that the drain water will freeze inside the outdoor unit, the installation of a panel heater is recommended. For details, refer to the installation manual for the panel heater.

Optional Parts for Indoor Unit

Ceiling Concealed Low Static Pressure Type: PEFY-W(P) VMS(1)-(E)(A)

| Description | Model | Remarks |
|-------------------------|--------------|-------------|
| Drain Pump | PAC-KE08DM-E | For W VMS |
| Control Box Replace Kit | PAC-KE70HS-E | For WP VMS1 |

Ceiling Concealed Medium Static Pressure Type: PEFY-W(P) VMA(L)(2)-(E)(A)

| Description | Model | Remarks |
|----------------------------------|--------------|--|
| Filter Box for Indoor Unit | PAC-KE91TB-E | For WP20, W20/25/32VMA(L) |
| | PAC-KE92TB-E | For WP25/32, W40VMA(L) |
| | PAC-KE93TB-E | For WP40/50/63, W50/63/71/80VMA(L), W20/25/32/40VMA2 |
| | PAC-KE94TB-E | For WP71/80/100, W100/125VMA(L) |
| | PAC-KE95TB-E | For WP125, W50/63/71/80/100/125VMA2 |
| Air Outlet Shutter Plate | PAC-SJ37SP-E | – |
| Multi-Function Casement | PAC-SJ41TM-E | – |
| High Efficiency Filter Element | PAC-SH59KF-E | – |
| Space Panel | PAC-SJ65AS-E | – |
| Duct Flange for Fresh Air Intake | PAC-SH65OF-E | – |
| Valve Kit | PAC-SK04VK-E | – |

4-Way Cassette Type: PLFY-WL VEM-E

| Description | Model | With Signal Receiver | With 3D i-See Sensor | With New Wireless Remote Controller | With Auto Elevation |
|--------------|-------------|----------------------|----------------------|-------------------------------------|---------------------|
| Panel | PLP-6EA | | | | |
| | PLP-6EAL | ● | | | |
| | PLP-6EAE | | ● | | |
| | PLP-6EAL | ● | ● | | |
| | PLP-6EAL | ● | | | ● |
| | PLP-6EAL | ● | ● | | ● |
| | PLP-6EAL | ● | | ● | |
| | PLP-6EAL | ● | ● | ● | |
| Corner Panel | PAC-SE1ME-E | | ● | | |
| | PAR-SE9FA-E | ● | | | |

2 × 2 Cassette Type: PLFY-WL VFM-E

| Description | Model |
|-------------|--------------|
| Valve Kit | PAC-SK04VK-E |

| Description | Model | With Signal Receiver | With 3D i-See Sensor | With New Wireless Remote Controller |
|--------------|-------------|----------------------|----------------------|-------------------------------------|
| Panel | SLP-2FA | | | |
| | SLP-2FAL | ● | | |
| | SLP-2FAE | | ● | |
| | SLP-2FALE | ● | ● | |
| | SLP-2FALM | ● | | ● |
| | SLP-2FALME | ● | ● | ● |
| Corner Panel | PAR-SF9FA-E | ● | | |
| | PAC-SF1ME-E | | ● | |

Wall-Mounted Type: PKFY-WL VLM-E

| Description | Model |
|----------------|--------------|
| Drain Pump Kit | PAC-SK01DM-E |
| Valve Kit | PAC-SK04VK-E |

Valve Kit Specification: PEFY-W VMS-A, PEFY-W VMA(L)-A, PEFY-W VMA2-A, PFFY-W VCM-A

| Model | PAC-SK04VK-E | |
|---------------------------|------------------|----|
| Dimensions H x W x D (mm) | 549 x 201 x 107 | |
| Weight (kg) | 3.5 | |
| Water Piping Diameter | Inlet (mm I.D.) | 20 |
| | Outlet (mm I.D.) | 20 |

*Install the valve kit inside of building, not outside of building.

*Be sure to make an inspection port in the ceiling for the valve kit.



See website for full Terms
and Conditions

Products in this brochure contain refrigerant R410A and R32. Please refer to the specifications before installation and servicing of these products. The purchaser must ensure that the person and/or companies are suitably licensed and experienced are permitted to install, service and repair the air conditioners. Suitable access for warranty and service is required. Specifications, designs and other content appearing in this brochure is current at the time of printing, and is subject to change without notice. Images are representational for illustration purposes. Printed: September 2021.

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