MITSUBISHI ELECTRIC

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

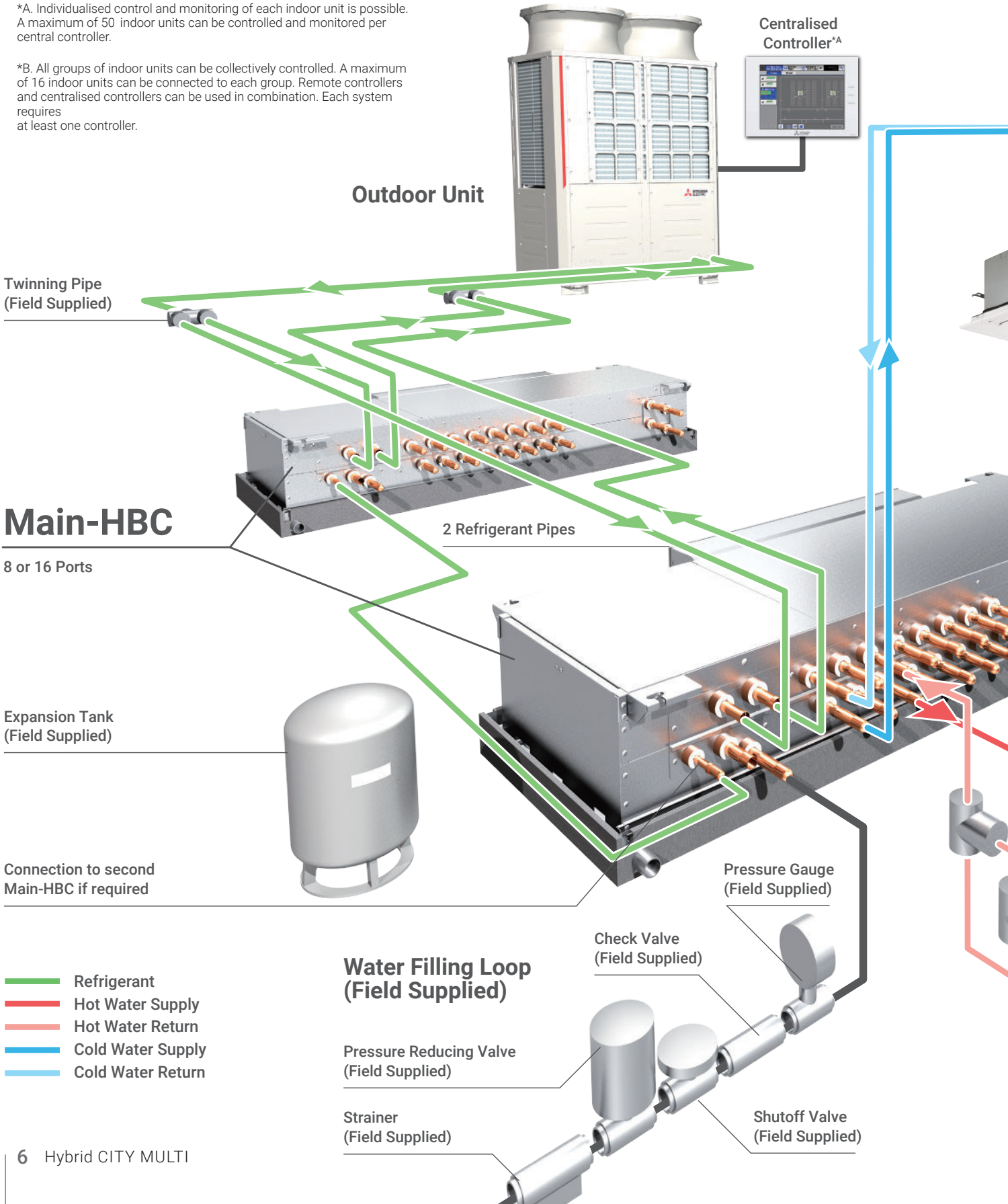
Easy installation compared with central air conditioning system with 4-pipe for heat recovery.

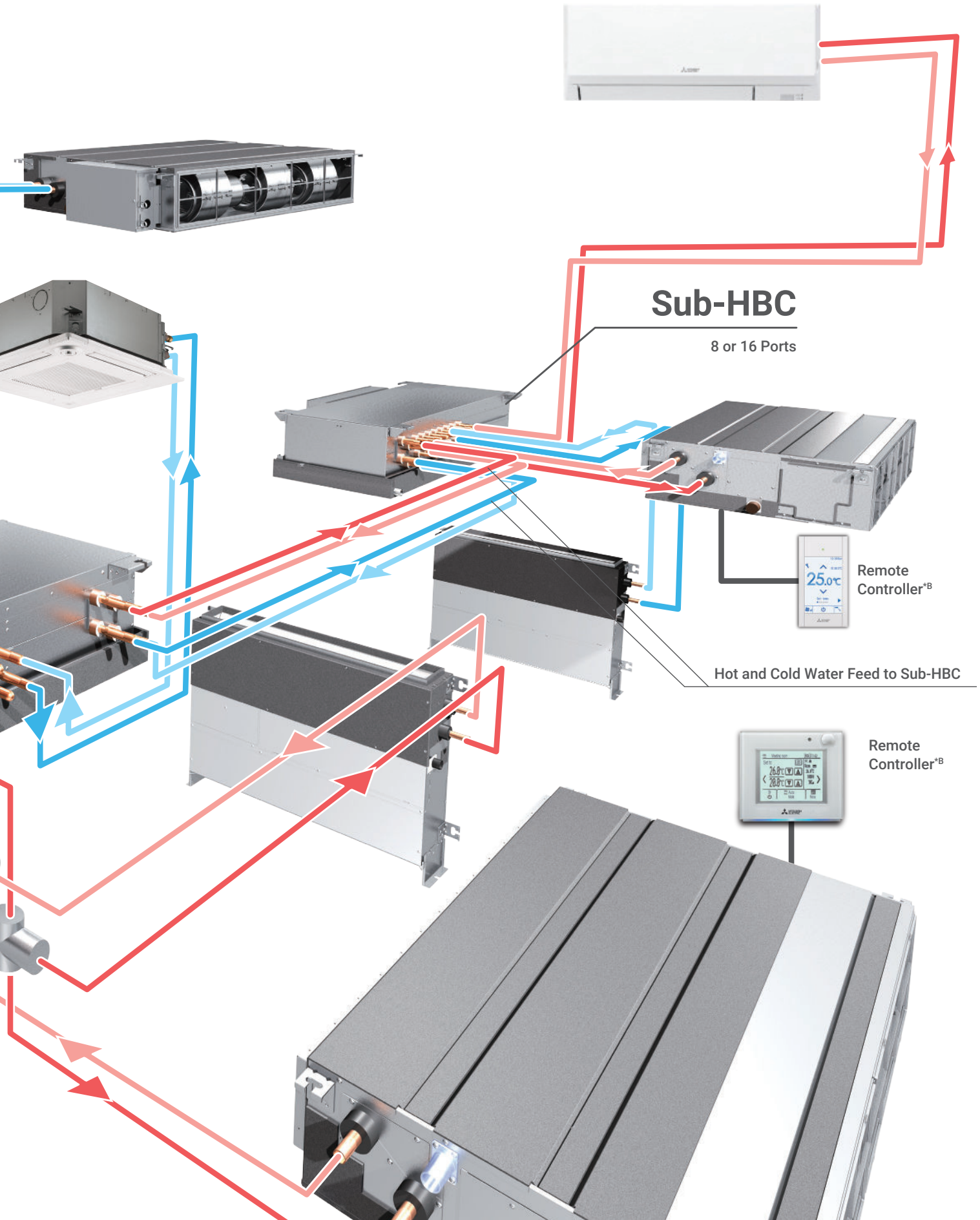
System Structure

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.



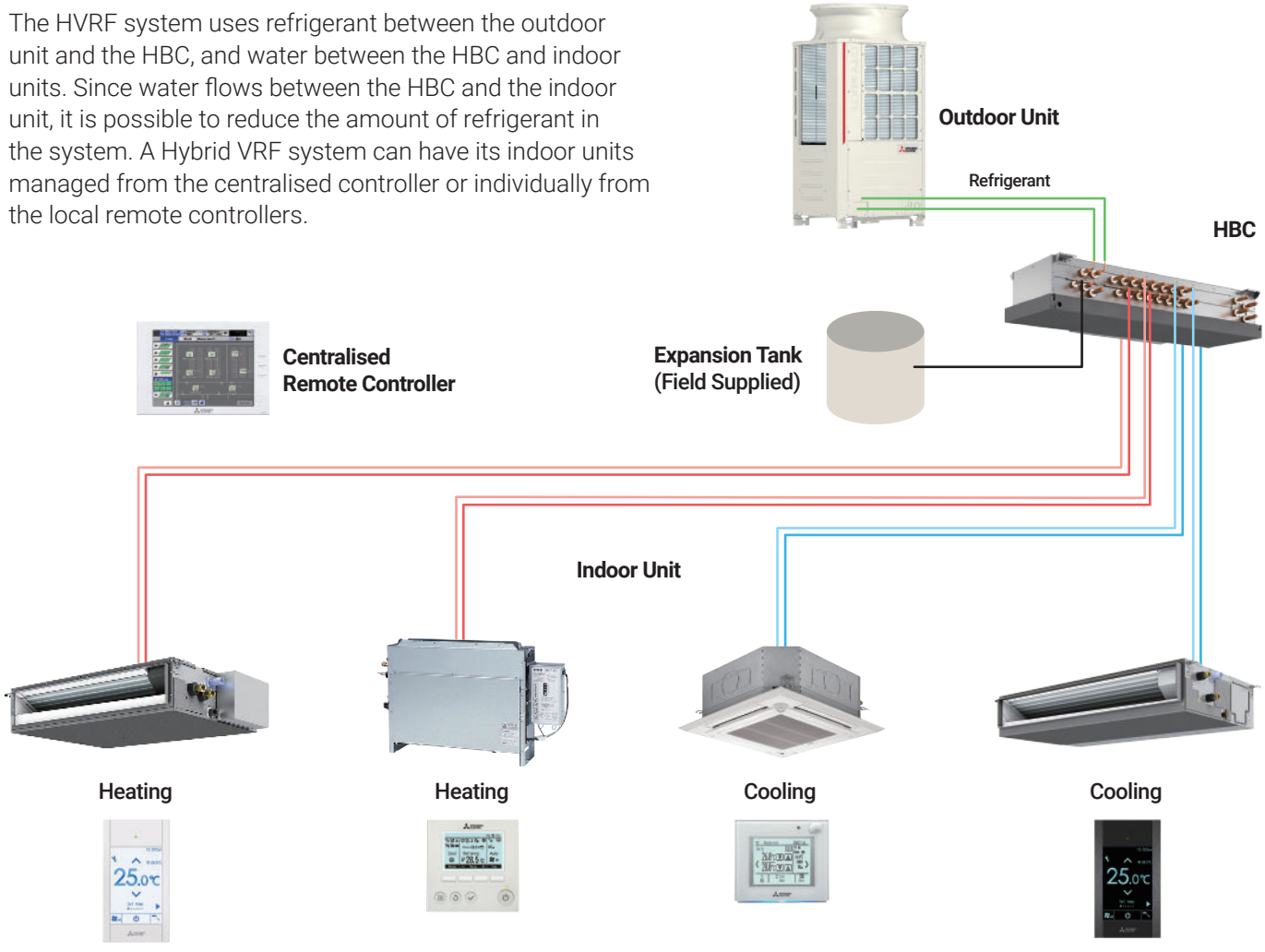

Sub-HBC
8 or 16 Ports
Remote Controller*B
Hot and Cold Water Feed to Sub-HBC
Remote Controller*B

R32

Mitsubishi Electric expands its Hybrid VRF offering by adding R32 systems to it's 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.

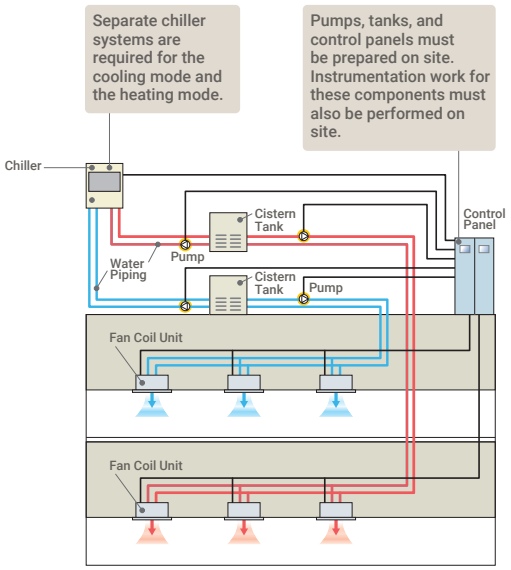
Energy Efficiency

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.

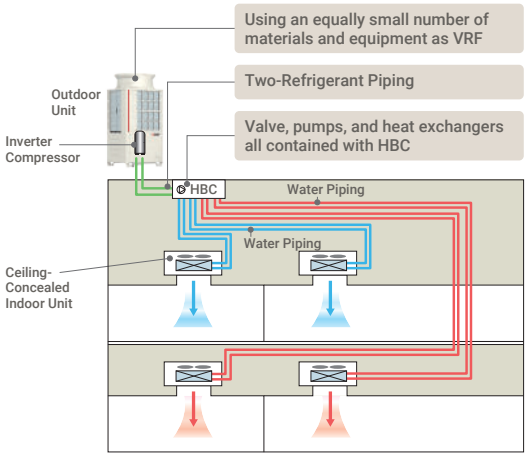
Comparison against the 4-Pipe System

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

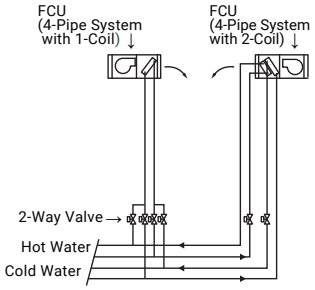


Simultaneous Cooling / Heating Operation

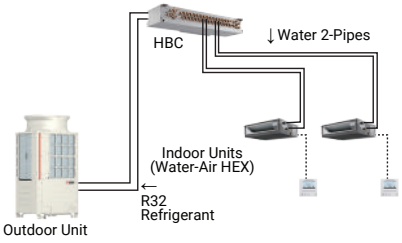
Provides air conditioning corresponding to various needs. With the 2-pipe system, direction of refrigerant flow will not reverse when the main mode changes. The compressor does not need to stop when the mode changes. This allows comfortable air conditioning during mild ambient conditions.

Comparison Example of Central AC System and Hybrid CITY MULTI

Simultaneous Cooling/Heating Operation in the Central AC system



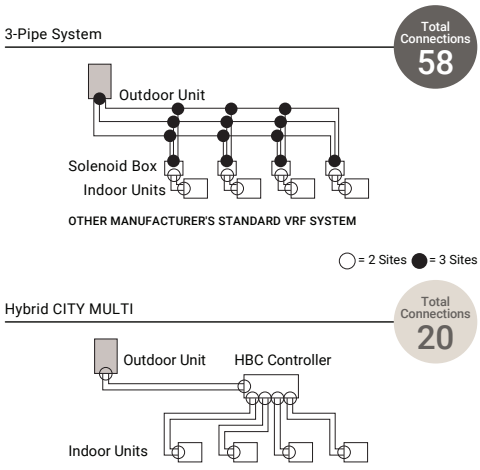
Simultaneous Cooling/Heating Operation in the Hybrid CITY MULTI System



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 Systems*2 (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

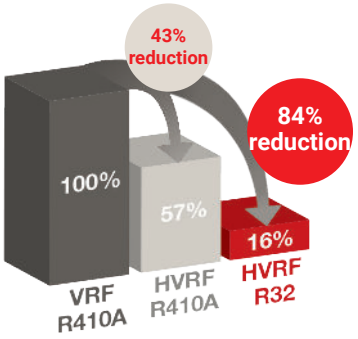
CO_2 amount = GWP × Refrigerant volume

Synergistic Effect on CO_2 Equivalent

When HVRF technology is combined with R32 refrigerant it can lead to massive reductions in CO_2 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
		43% reduction	84% reduction / 72% reduction	

Comparison of CO_2 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

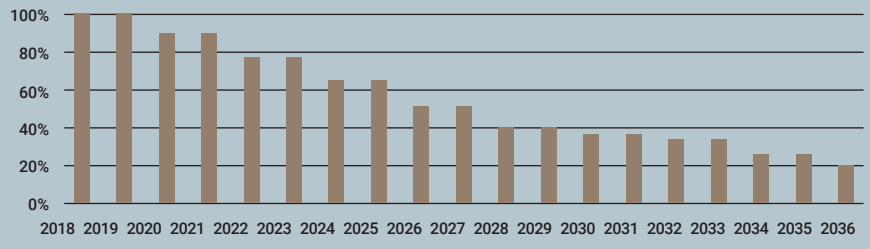
*Based on the following simulation condition.
*Simulation condition
Application image: Hotel (20 rooms/same size)
Outdoor unit: 33.5kW x 1, Indoor unit: P20 (2.2kW) x 20
VRF: BC controller 16 ports + 4 ports sub
HVRF: HBC 16 ports + 8 ports sub
Total refrigerant piping length: 264m (VRF), 40m (HVRF)
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 CO_2 emissions. Manufacturers can usually reduce their CO_2 equivalent with the options below:

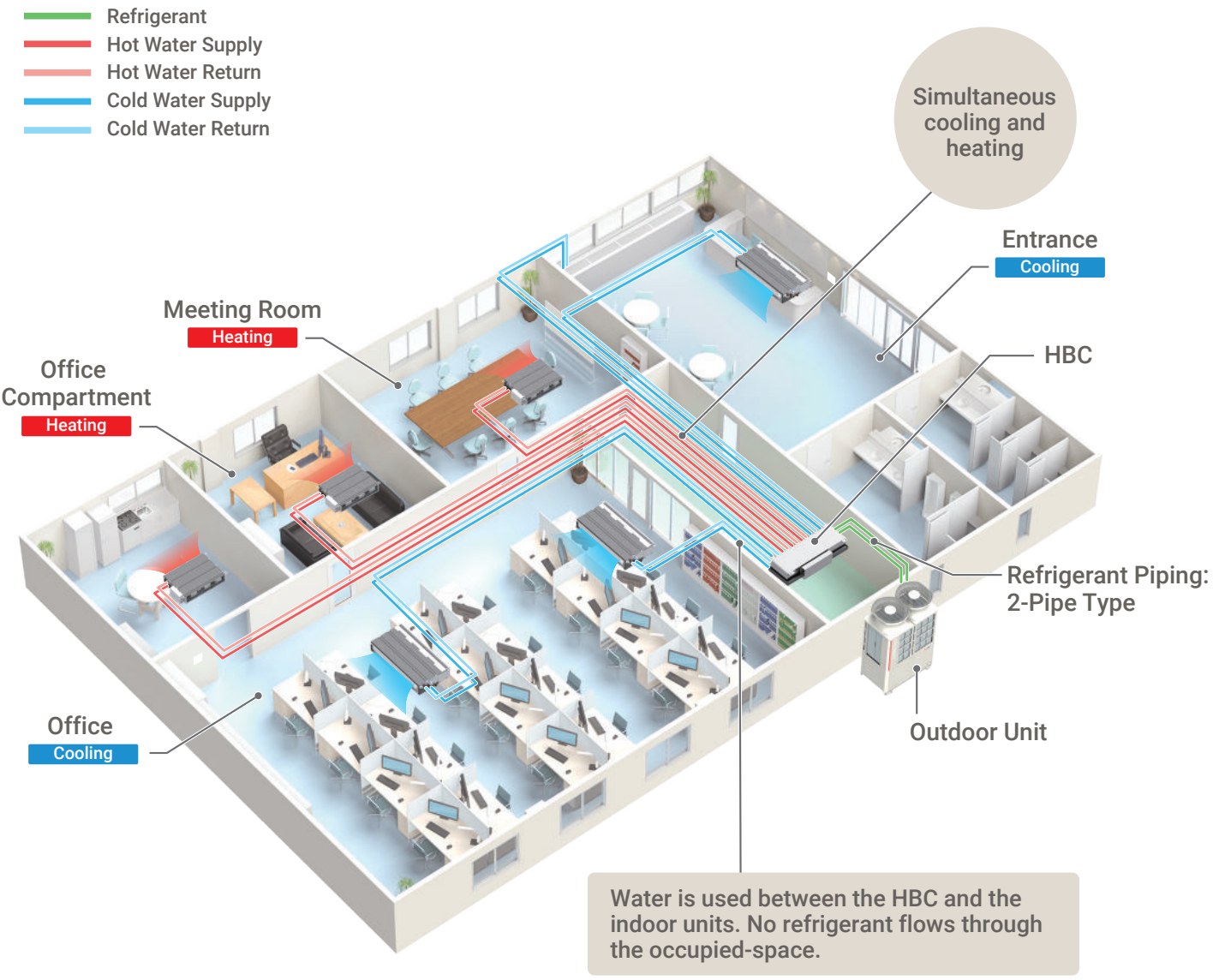
1) Use lower GWP refrigerants
2) Reduce the amount of refrigerant used

Australia's HFC Phase-down Schedule



Two-Pipe Simultaneous Cooling/Heating System

Installation



S Module
(22.4-33.5kW)

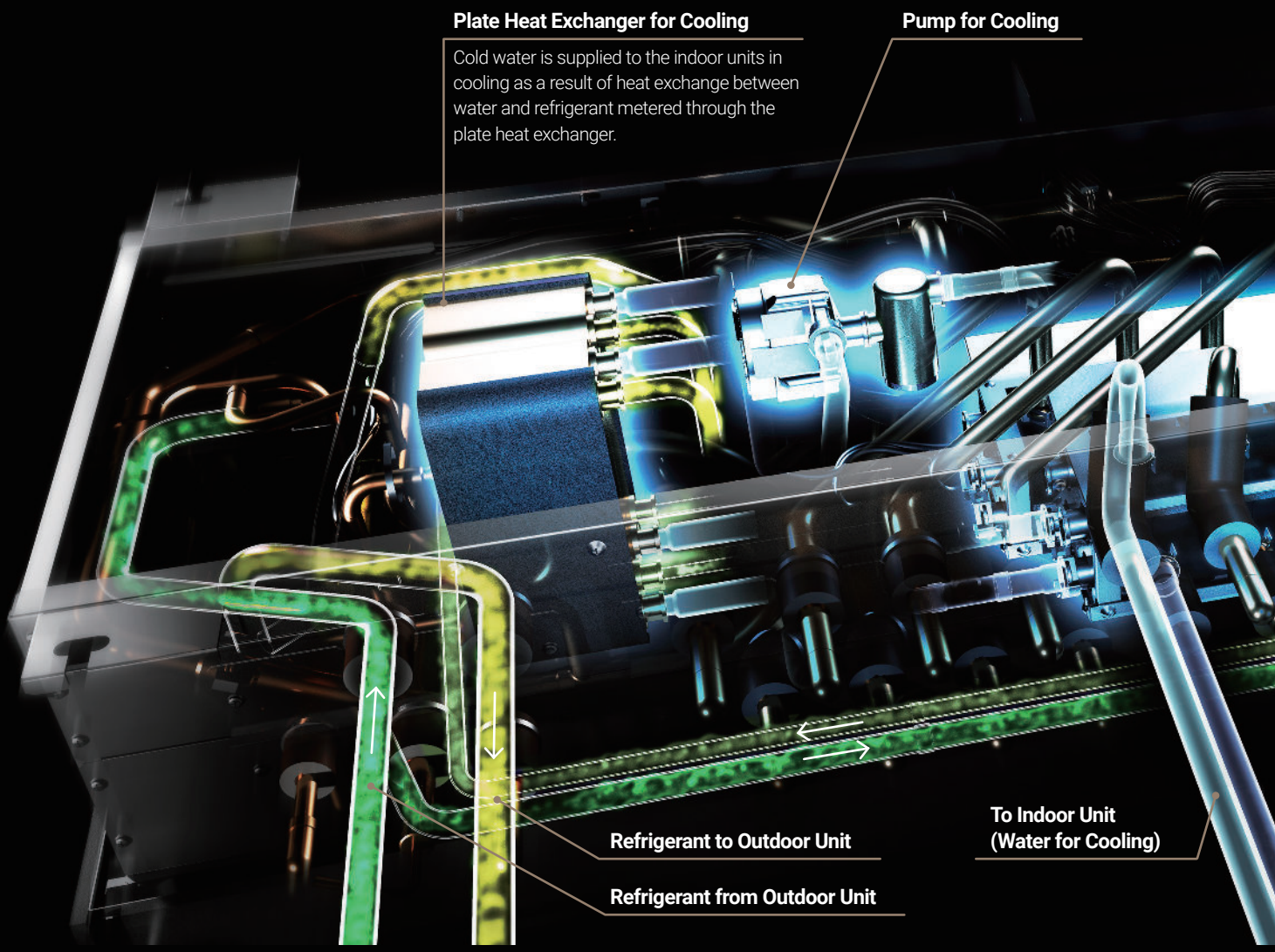
L Module
(40-50kW)

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

Valve Block

Selects between hot or cold water and controls the flow to the indoor units.

Pump for Heating

Plate Heat Exchanger for Heating

Heats the water to be supplied to the indoor units by exchanging heat between water and refrigerant.

Refrigerant to Plate Heat Exchanger for Cooling

Refrigerant to Plate Heat Exchanger for Heating

To Indoor Unit (Water for Heating)

S Module
(22.4-33.5kW)

L Module
(40-50kW)

XL Module
(56kW)

A Line-Up of Outdoor Units up to 56kW

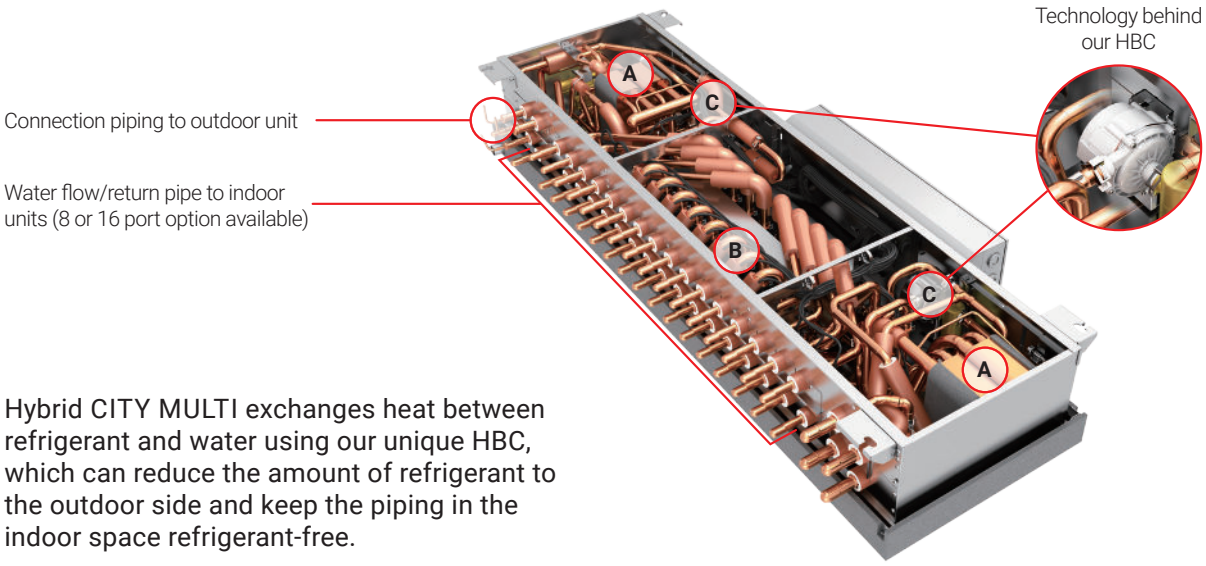
Units with R32 refrigerant have been added to our line-up.

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

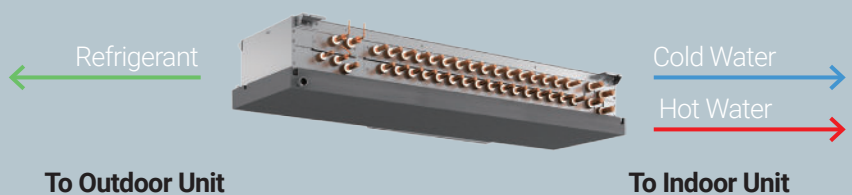
Pump

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

Refrigerant Circulation

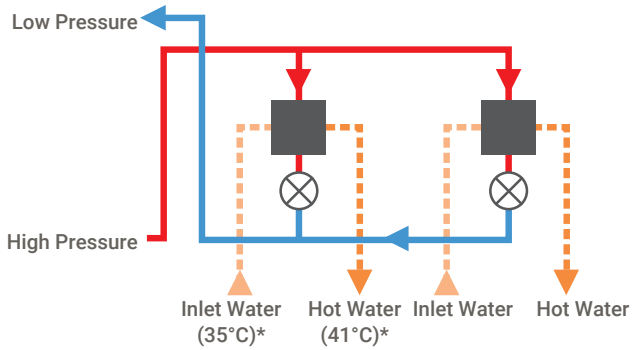
Refrigerant is circulated between the HBC and outdoor unit.

The Hybrid City Multi uses water to indoor unit side.



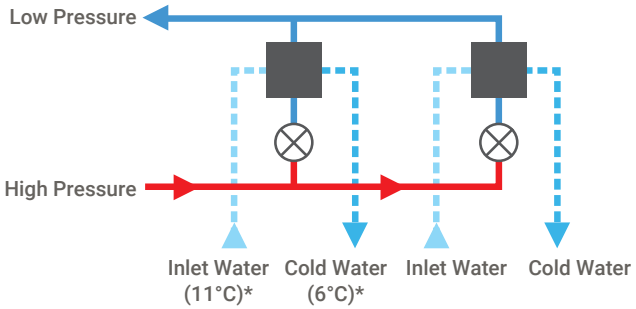
Heating Operation

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.

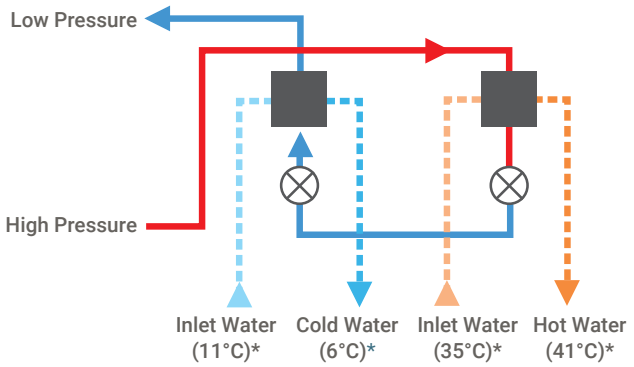


Plate Heat Exchanger
Expansion Valve
Refrigerant
Water

*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.

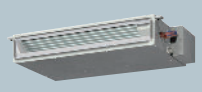
Both the Hybrid CITY MULTI and standard CITY MULTI VRF systems in the project provide simultaneous heating and cooling and uses heat recovery between the heating and cooling units to increase system efficiency by reducing the input energy of the system.

Commissioned: 2019

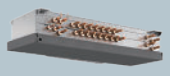
Unit Information

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

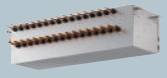
Indoor Units
PEFY-WP20VMA-E x 8
PEFY-P125VMA-E x 1
PEFY-P100VMA-E x 1
PEFY-P63VMA-E x 2
PEFY-P50VMA-E x 1



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.

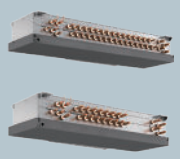
Commissioned: 2019

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
Hotel Il Sereno

Location
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.

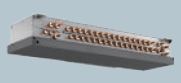
Lake water is drawn by a pumping station installed 15 meters below the surface of the lake. The six Hybrid CITY MULTI systems have a combined cooling capacity of 240kW and 270kW of heating capacity. Via six Hydro BC Controllers, these systems feed a total of 79 indoor units of a variety of different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

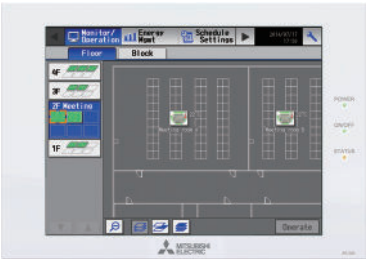
Ceiling Concealed Middle Static Type

Floor Standing Concealed Type

Controllers
AE-200E x 3
LonWorks

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 Airflow 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		
PLFY-WL VEM	PAR-SE9FA-E	PAR-SL100A-E
PLFY-WL VFM	PAR-SF9FA-E	
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

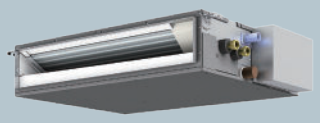
Customise the settings of each air conditioner. Purchase multiple adaptors to manage all air conditioners independently on the same account, to ensure complete control over your system. The result is a tailored system to your needs.

*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.

amazon alexa ENABLED

works with the Google Assistant

Line-up of Indoor Units



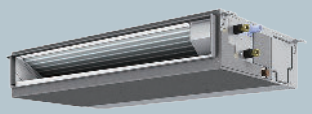
PEFY-WP VMS1-E

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
- Low noise
- Airflow rate, 3 stages
- Height, 200mm
- Drain pump (standard) up to 550mm



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
- Height, 250mm
- Airflow rate, 3 stages
- Rear or bottom inlet
- Drain pump (standard) up to 700mm

PLFY-WL VEM-E

Ceiling Cassette 4-Way Airflow 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
- Decoration panel
- Airflow rate, 4 types
- Drain pump

PLFY-WL VFM-E

Ceiling Cassette 4-Way Airflow 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
- Decoration panel
- Airflow rate, 3 types
- 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
- Airflow rate, 3 stages
- Rear or bottom inlet (W model only)
- 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
- Quiet operation
- Automatic vane control
- 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 × 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									●	●		●		

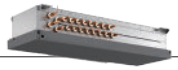
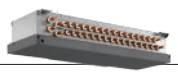
*This picture is WL10–25 model.

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
	Airflow 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*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)		
	Water Volume	L	1.0	1.0	1.7
Fan	**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
	Airflow Rate		(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
		m^3/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		dB <A>	(Low-Mid-High) 28 - 30 - 33	(Low-Mid-High) 30 - 32 - 35	(Low-Mid-High) 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°CD.B./19°CW.B. Outdoor: 35°CD.B.
Pipe length: 7.5 m, Level difference: 0 m.

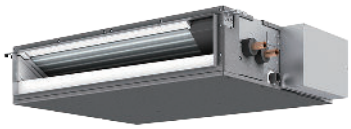
*2 The values are measured at the factory setting of external static pressure.

*3 Nominal heating conditions
Indoor: 20°CD.B., Outdoor: 7°CD.B./6°CW.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 Airflow 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		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	19	19
Heat Exchanger			Cross fin (Aluminum fin and copper tube)			
	Water Volume	L	0.7	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
	Airflow 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	Washer, drain hose, tie band
Optional Parts	**Drain Pump Kit**		PAC-KE08DM-E	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		mm	200 x 790 x 700	200 x 990 x 700	200 x 990 x 700
Net Weight		kg	19.5	23.5	23.5
Heat Exchanger			Cross fin (Aluminum fin and copper tube)		
	Water Volume	L	1.0	1.0	1.0
Fan	**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
	Airflow 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	Washer, drain hose, tie band
Optional Parts	**Drain Pump Kit**		PAC-KE08DM-E	PAC-KE08DM-E	PAC-KE08DM-E

Notes:

*1 Nominal cooling conditions
Indoor: 27°CD.B./19°CW.B., Outdoor: 35°CD.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°CD.B., Outdoor: 7°CD.B./6°CW.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 Airflow rate.

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

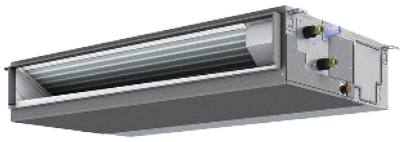
*6 Install a strainer (40 mesh or more) on the pipe next to the valve to remove the
foreign matters.

*7 Please group units that operate on 1 branch of HBC controller.

*8 Regarding W40VMS-A, the high notch Airflow 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)				
	Water Volume	L	0.7	1.0	1.0	1.8	1.8
Fan	**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
	Airflow 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		dB <A>	(Low-Mid-High) 23 - 26 - 29	(Low-Mid-High) 23 - 27 - 30	(Low-Mid-High) 25 - 29 - 32	(Low-Mid-High) 26 - 29 - 34	(Low-Mid-High) 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)				
	Water Volume	L	2.0	2.6	2.6	2.6	3.0
Fan	**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
	Airflow 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
		L/S	242 - 300 - 350	383 - 467 - 550	383 - 467 - 550	383 - 467 - 550	492 - 592 - 700
Sound Pressure Level (Measured in Anechoic Room)*2		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°CD.B./19°CW.B., Outdoor:
Pipe length: 7.5 m, Level difference: 0 m.

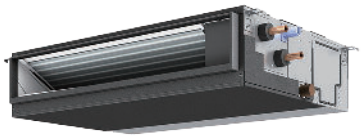
*2 The values are measured at the factory setting of external static pressure.

*3 Nominal heating conditions
Indoor: 20°CD.B., Outdoor: 7°CD.B./6°CW.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 Airflow 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	5.6
	Power Input*2	kW	0.032	0.032	0.044	0.047	0.093
	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)	0.68 - 0.65 - 0.62 (220 - 230 - 240 V)
Heating Capacity [Nominal]*3		kW	2.5	3.2	4.0	5.0	6.3
	Power Input*2	kW	0.030	0.030	0.042	0.045	0.091
	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)	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 700 x 732	250 x 700 x 732	250 x 700 x 732	250 x 900 x 732	250 x 1,100 x 732
Net Weight		kg	22	22	22	26	30
Heat Exchanger			Cross fin (Aluminum fin and copper tube)				
	Water Volume	L	0.7	0.7	0.7	1.0	2.0
Fan	**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>	40 - <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
	Airflow Rate		(Low-Mid-High)	(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	14.5 - 18.0 - 21.0
		L/S	100 - 125 - 142	100 - 125 - 142	125 - 150 - 175	167 - 200 - 233	242 - 300 - 350
Sound Pressure Level			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
(Measured in Anechoic Room)*2		dB <A>	21 - 25 - 27	21 - 25 - 27	23 - 27 - 30	23 - 28 - 31	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	20
	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")	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	PAC-KE93TB-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	14.0
	Power Input*2	kW	0.093	0.093	0.093	0.142	0.199
	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)	1.29 - 1.23 - 1.18 (220 - 230 - 240 V)
Heating Capacity [Nominal]*3		kW	8.0	9.0	10.0	12.5	16.0
	Power Input*2	kW	0.091	0.091	0.091	0.140	0.197
	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)	1.29 - 1.23 - 1.18 (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	250 x 1,400 x 732
Net Weight		kg	30	30	30	37	38
Heat Exchanger			Cross fin (Aluminum fin and copper tube)				
	Water Volume	L	2.0	2.0	2.0	2.6	3.2
Fan	**Type x Quantity**		Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2	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>	<40> - 50 - <70> - <100> - <150>
	Motor Type		DC motor	DC motor	DC motor	DC motor	DC motor
	Motor Output	kW	0.121	0.121	0.121	0.300	0.300
	Driving Mechanism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
	Airflow 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	14.5 - 18.0 - 21.0	14.5 - 18.0 - 21.0	23.0 - 28.0 - 32.0	28.0 - 34.0 - 37.0
		L/S	242 - 300 - 350	242 - 300 - 350	242 - 300 - 350	383 - 467 - 533	467 - 567 - 617
Sound Pressure Level			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
(Measured in Anechoic Room)*2		dB <A>	26 - 31 - 35	26 - 31 - 35	26 - 31 - 35	30 - 35 - 38	34 - 38 - 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	30
	Outlet	mm I.D	30	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")	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	PAC-KE94TB-E

Notes:

*1 Nominal cooling conditions
Indoor: 27°CD.B./19°CW.B., Outdoor: 35°CD.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°CD.B., Outdoor: 7°CD.B./6°CW.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 Airflow rate.

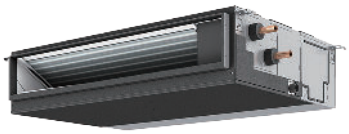
*5 Be sure to install a valve on the water inlet/outlet.

*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	5.6
	Power Input*2	kW	0.030	0.030	0.042	0.045	0.091
	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)	0.68-0.65-0.62 (220-230-240 V)
Heating Capacity [Nominal]*3		kW	2.5	3.2	4.0	5.0	6.3
	Power Input*2	kW	0.030	0.030	0.042	0.045	0.091
	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)	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 700 x 732	250 x 700 x 732	250 x 700 x 732	250 x 900 x 732	250 x 1,100 x 732
Net Weight		kg	21	21	21	25	29
Heat Exchanger			Cross fin (Aluminum fin and copper tube)				
	Water Volume	L	0.7	0.7	0.7	1.0	2.0
Fan	**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>	40 - <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
	Airflow Rate		(Low-Mid-High)	(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	14.5 - 18.0 - 21.0
		L/S	100 - 125 - 142	100 - 125 - 142	125 - 150 - 175	167 - 200 - 233	242 - 300 - 350
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	(Low-Mid-High) 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	20
	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")	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	PAC-KE93TB-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	14.0
	Power Input*2	kW	0.091	0.091	0.091	0.140	0.197
	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)	1.29 - 1.23 - 1.18 (220 - 230 - 240 V)
Heating Capacity [Nominal]*3		kW	8.0	9.0	10.0	12.5	16.0
	Power Input*2	kW	0.091	0.091	0.091	0.140	0.197
	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)	1.29 - 1.23 - 1.18 (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	250 x 1,400 x 732
Net Weight		kg	29	29	29	36	37
Heat Exchanger			Cross fin (Aluminum fin and copper tube)				
	Water Volume	L	2.0	2.0	2.0	2.6	3.2
Fan	**Type x Quantity**		Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2	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>	<40> - 50 - <70> - <100> - <150>
	Motor Type		DC motor	DC motor	DC motor	DC motor	DC motor
	Motor Output	kW	0.121	0.121	0.121	0.300	0.300
	Driving Mechanism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
	Airflow 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	14.5 - 18.0 - 21.0	14.5 - 18.0 - 21.0	23.0 - 28.0 - 32.0	28.0 - 34.0 - 37.0
		L/S	242 - 300 - 350	242 - 300 - 350	242 - 300 - 350	383 - 467 - 533	467 - 567 - 617
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	(Low-Mid-High) 34 - 38 - 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	30
	Outlet	mm I.D	30	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")	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	PAC-KE94TB-E

Notes:

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

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

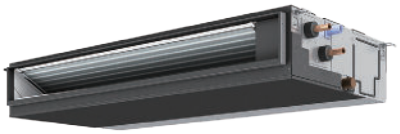
*3 Nominal heating conditions
Indoor: 20°CD.B., Outdoor: 7°CD.B./6°CW.B.
Pipe length: 7.5 m, Level difference: 0 m.

*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 Airflow 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	5.6
	Power Input*2	kW	0.093	0.093	0.093	0.093	0.208
	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)	1.40 - 1.34 - 1.28 (220 - 230 - 240 V)
Heating Capacity [Nominal]*3		kW	2.5	3.2	4.0	5.0	6.3
	Power Input*2	kW	0.091	0.091	0.091	0.091	0.206
	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)	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 1,100 x 732	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	30	42
Heat Exchanger			Cross fin (Aluminum fin and copper tube)				
	Water Volume	L	2.0	2.0	2.0	2.0	3.5
Fan	Type x Quantity		Sirocco fan x 2	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>	<40> - 50 - <70> - <100> - <150>
	Motor Type		DC motor	DC motor	DC motor	DC motor	DC motor
	Motor Output	kW	0.121	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	Direct-driven by motor
	Airflow 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	14.5 - 18.0 - 21.0	14.5 - 18.0 - 21.0	14.5 - 18.0 - 21.0	29.5 - 35.5 - 40.0
		L/S	242 - 300 - 350	242 - 300 - 350	242 - 300 - 350	242 - 300 - 350	492 - 592 - 667
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) 26 - 31 - 35	(Low-Mid-High) 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	20	20	20	20	20
	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")	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	PAC-KE95TB-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	14.0
	Power Input*2	kW	0.208	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)	1.40 - 1.34 - 1.28 (220 - 230 - 240 V)
Heating Capacity [Nominal]*3		kW	8.0	9.0	10.0	12.5	16.0
	Power Input*2	kW	0.206	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)	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	250 x 1,600 x 732
Net Weight		kg	42	42	42	42	42
Heat Exchanger			Cross fin (Aluminum fin and copper tube)				
	Water Volume	L	3.5	3.5	3.5	3.5	3.5
Fan	Type x Quantity		Sirocco fan x 3	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>	<40> - 50 - <70> - <100> - <150>
	Motor Type		DC motor	DC motor	DC motor	DC motor	DC motor
	Motor Output	kW	0.300	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	Direct-driven by motor
	Airflow Rate		(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
		m^3/min	29.5 - 35.5 - 40.0	29.5 - 35.5 - 40.0	29.5 - 35.5 - 40.0	29.5 - 35.5 - 40.0	29.5 - 35.5 - 40.0
		L/S	492 - 592 - 667	492 - 592 - 667	492 - 592 - 667	492 - 592 - 667	492 - 592 - 667
Sound Pressure Level (Measured in Anechoic Room)*2		dB <A>	(Low-Mid-High) 33 - 37 - 40	(Low-Mid-High) 33 - 37 - 40	(Low-Mid-High) 33 - 37 - 40	(Low-Mid-High) 33 - 37 - 40	(Low-Mid-High) 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	30
	Outlet	mm I.D	30	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")	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	PAC-KE95TB-E

Notes:

*1 Nominal cooling conditions
Indoor: 27°CD.B./19°CW.B., Outdoor: 35°CD.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°CD.B., Outdoor: 7°CD.B./6°CW.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 Airflow 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	8.0
	Power Input*2	kW	0.055	0.077	0.095	0.075
	Current Input*2	A	0.41 - 0.39 - 0.38	0.58 - 0.55 - 0.52	0.70 - 0.67 - 0.64	0.54 - 0.52 - 0.50
Heating Capacity [Nominal]*3		kW	5.0	6.3	8.0	9.0
	Power Input*2	kW	0.055	0.077	0.095	0.075
	Current Input*2	A	0.41 - 0.39 - 0.38	0.58 - 0.55 - 0.52	0.70 - 0.67 - 0.64	0.54 - 0.52 - 0.50
External Finish			Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate
External Dimension H x W x D		mm	380 x 745 x 900	380 x 745 x 900	380 x 745 x 900	380 x 1,030 x 900
Net Weight		kg	35	35	36	45
Heat Exchanger			Cross fin (Aluminum fin and copper tube)			
	Water Volume	L	1.4	1.4	1.8	1.8
Fan	**Type x Quantity**		Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 2
	External Static Press.*4	Pa	50 - <100> - <150> - <200>	50 - <100> - <150> - <200>	50 - <100> - <150> - <200>	50 - <100> - <150> - <200>
	Motor Type		DC motor	DC motor	DC motor	DC motor
	Motor Output	kW	0.121	0.121	0.121	0.244
	Driving Mechanism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
	Airflow Rate		(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
		m^3/min	10.0 - 12.0 - 14.0	13.0 - 15.0 - 18.0	13.5 - 16.0 - 19.0	15.5 - 18.0 - 22.0
		L/S	167 - 200 - 233	217 - 250 - 300	225 - 267 - 317	258 - 300 - 367
Sound Pressure Level			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
(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	24.0 - 27.0 - 31.0
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	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	30	30
	Outlet	mm I.D	20	20	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-KE63TB-F	PAC-KE63TB-F	PAC-KE63TB-F	PAC-KE99TB-F

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	14.0
	Power Input*2	kW	0.090	0.160	0.175
	Current Input*2	A	0.63 - 0.61 - 0.58	1.05 - 1.01 - 0.96	1.17 - 1.13 - 1.09
Heating Capacity [Nominal]*3		kW	10.0	12.5	16.0
	Power Input*2	kW	0.090	0.160	0.175
	Current Input*2	A	0.63 - 0.61 - 0.58	1.05 - 1.01 - 0.96	1.17 - 1.13 - 1.09
External Finish			Galvanized steel plate	Galvanized steel plate	Galvanized steel plate
External Dimension H x W x D		mm	380 x 1,030 x 900	380 x 1,195 x 900	380 x 1,195 x 900
Net Weight		kg	45	51	53
Heat Exchanger			Cross fin (Aluminum fin and copper tube)		
	Water Volume	L	1.8	2.3	2.9
Fan	**Type x Quantity**		Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2
	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	0.244	0.375	0.375
	Driving Mechanism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
	Airflow Rate		(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
		m^3/min	18.0 - 21.5 - 25.0	26.5 - 32.0 - 38.0	26.5 - 32.0 - 38.0
		L/S	300 - 358 - 417	442 - 533 - 633	442 - 533 - 633
Sound Pressure Level			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
(Measured in Anechoic Room)*2		dB <A>	26.0 - 29.0 - 32.0	28.0 - 32.0 - 36.0	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	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
	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")
Standard Attachment	**Accessory**		Washer, drain hose, tie band		
Optional Parts	**Filter Box**		PAC-KE99TB-F	PAC-KE140TB-F	PAC-KE140TB-F

Notes:

*1 Nominal cooling conditions
Indoor: 27°CD.B./19°CW.B., Outdoor: 35°CD.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°CD.B., Outdoor: 7°CD.B./6°CW.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 Airflow 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 Airflow 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 × 840 × 840	258 × 840 × 840	258 × 840 × 840	258 × 840 × 840	258 × 840 × 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	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 × 1	Turbo Fan × 1	Turbo Fan × 1	Turbo Fan × 1	Turbo Fan × 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	0.050
	Driving Mechanism			Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
	Airflow Rate			(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)
			L/S	200 - 217 - 233 - 250	200 - 217 - 250 - 283	233 - 250 - 267 - 283	233 - 250 - 267 - 283	233 - 267 - 300 - 333
Sound Pressure Level (Measured in Anechoic Room)				(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)
			dB <A>	24 - 26 - 27 - 28	24 - 26 - 28 - 30	26 - 27 - 29 - 30	26 - 28 - 29 - 31	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 Size	Inlet	mm O.D	22	22	22	22	22
		Outlet	mm O.D	22	22	22	22	22
	Field Pipe Size	Inlet	mm I.D	20	20	20	20	20
		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)	O.D.32 (1-1/4)
Optional Parts	Decoration Panel*5			PLP-6EA/PLP-6EAE/ PLP-6EAL/PLP-6EALE	PLP-6EA/PLP-6EAE/ PLP-6EAL/PLP-6EALE	PLP-6EA/PLP-6EAE/ PLP-6EAL/PLP-6EALE	PLP-6EA/PLP-6EAE/ PLP-6EAL/PLP-6EALE	PLP-6EA/PLP-6EAE/ PLP-6EAL/PLP-6EALE
	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°CD.B./19°CW.B. (81°FD.B./66 °FW.B.), Outdoor: 35°CD.B. (95°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

*2 Nominal heating conditions
Indoor: 20°CD.B. (68°FD.B.), Outdoor: 7°CD.B./6°CW.B. (45°FD.B./43°FW.B.)
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 Airflow 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
	Power Input		**kW**	0.04	0.05	0.08	0.11
	Current Input		**A**	0.40	0.46	0.66	1.05
Heating Capacity [Nominal]*2			**kW**	8.0	10.0	12.5	16.0
	Power Input		**kW**	0.04	0.05	0.08	0.11
	Current Input		**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	298 × 840 × 840
Net Weight			**kg**	23	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	40 x 950 x 950
	Net Weight		**kg**	5	5	5	5
Heat Exchanger				Cross fin (Aluminum fin and copper tube)			
	Water Volume		**L**	2.1	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	0
	Motor Type			DC motor	DC motor	DC motor	DC motor
	Motor Output		**kW**	0.120	0.120	0.120	0.120
	Driving Mechanism			Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
	Airflow Rate			(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)
			L/S	250 - 283 - 317 - 350	250 - 300 - 350 - 383	317 - 383 - 433 - 500	333 - 417 - 500 - 583
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	(Low-Mid2-Mid1-High) 33 - 37 - 40 - 46
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**	**Inlet**	**mm O.D**	22	22	22	22
		Outlet	**mm O.D**	22	22	22	22
	Field Pipe Size	**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)
Optional Parts	**Decoration Panel*5**			PLP-6EA/PLP-6EAE/ PLP-6EAL/PLP-6EALE	PLP-6EA/PLP-6EAE/ PLP-6EAL/PLP-6EALE	PLP-6EA/PLP-6EAE/ PLP-6EAL/PLP-6EALE	PLP-6EA/PLP-6EAE/ PLP-6EAL/PLP-6EALE
	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°CD.B./19°CW.B. (81°FD.B./66 °FW.B.), Outdoor: 35°CD.B. (95°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

*2 Nominal heating conditions
Indoor: 20°CD.B. (68°FD.B.), Outdoor: 7°CD.B./6°CW.B. (45°FD.B./43°FW.B.)
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
	Power Input		**kW**	0.02	0.02	0.02
	Current Input		**A**	0.23	0.24	0.26
Heating Capacity [Nominal]*2			**kW**	1.4	1.9	2.5
	Power Input		**kW**	0.02	0.02	0.02
	Current Input		**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
	Net Weight		**kg**	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
	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
	Airflow Rate			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
			L/S	100 - 108 - 117	100 - 117 - 133	108 - 117 - 133
Sound Pressure Level (Measured in Anechoic Room)			**dB <A>**	(Low-Mid-High) 25 - 26 - 27	(Low-Mid-High) 25 - 26 - 29	(Low-Mid-High) 27 - 29 - 31
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
		Attachment Plates		PAC-SK39AP-E	PAC-SK39AP-E	PAC-SK39AP-E

Notes:

*1 Nominal cooling conditions
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66 °FW.B.), Outdoor: 35°CD.B. (95°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

*2 Nominal heating conditions
Indoor: 20°CD.B. (68°FD.B.), Outdoor: 7°CD.B./6°CW.B. (45°FD.B./43°FW.B.)
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
	Airflow Rate			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
			L/S	108 - 125 - 150	108 - 150 - 200	108 - 192 - 217
Sound Pressure Level (Measured in Anechoic Room)			dB <A>	(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**	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
		Attachment Plates		PAC-SK39AP-E	PAC-SK39AP-E	PAC-SK39AP-E

Notes:

*1 Nominal cooling conditions
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66 °FW.B.), Outdoor: 35°CD.B. (95°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

*2 Nominal heating conditions
Indoor: 20°CD.B. (68°FD.B.), Outdoor: 7°CD.B./6°CW.B. (45°FD.B./43°FW.B.)
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)
	Water Volume	**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
	Airflow 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		**dB <A>**	(Low-Mid-High) 31 - 33 - 38	(Low-Mid-High) 31 - 33 - 38	(Low-Mid-High) 31 - 35 - 38
Insulation Material			Polyethylene foam, Urethane foam	Polyethylene foam, Urethane foam	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.)**	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		

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)
	Water Volume	**L**	1.5	1.5
Fan	**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	**kW**	0.096	0.096
	Driving Mechanism		Direct-driven by motor	Direct-driven by motor
	Airflow Rate		(Low-Mid-High)	(Low-Mid-High)
		m^3/min	8.0 - 10.0 - 11.5	10.5 - 13.0 - 15.0
		L/S	133 - 167 - 192	175 - 217 - 250
Sound Pressure Level (Measured in Anechoic Room)*2		**dB <A>**	(Low-Mid-High) 34 - 37 - 40	(Low-Mid-High) 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		**mm (in.)**	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°CD.B./19°CW.B., Outdoor: 35°CD.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°CD.B., Outdoor: 7°CD.B./6°CW.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 Airflow 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 × W × D*4		mm	615 (690) × 700 × 200	615 (690) × 700 × 200	615 (690) × 700 × 200
Net Weight		kg	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)
	Water Volume	L	0.8	0.8	1.0
Fan	**Type x Quantity**		Sirocco fan × 2	Sirocco fan × 2	Sirocco fan × 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
	Airflow Rate		(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
		m^3/min	5.0 - 6.0 - 7.0	5.5 - 7.0 - 8.5	6.5 - 7.5 - 9.0
		L/S	83 - 100 - 117	92 - 117 - 142	108 - 125 - 150
Sound Pressure Level (Measured in Anechoic Room)*2		dB <A>	(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		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, 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)
	Water Volume	L	1.3	1.3
Fan	**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
	Airflow Rate		(Low-Mid-High)	(Low-Mid-High)
		m^3/min	8.0 - 9.5 - 11.0	10.5 - 12.5 - 14.5
		L/S	133 - 158 - 183	175 - 208 - 242
Sound Pressure Level (Measured in Anechoic Room)*2		dB <A>	(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		mm (in.)	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°CD.B./19°CW.B., Outdoor: 35°CD.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°CD.B., Outdoor: 7°CD.B./6°CW.B.
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 Airflow 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.

WL10–WL25 WL32/40

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		mm	299 × 773 × 237	299 × 773 × 237	299 × 773 × 237
Net Weight		kg	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)
	Water Volume	L	0.6	0.6	0.7
Fan	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
	Airflow Rate		(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)
		m^3/min	3.3 - 3.8 - 4.1 - 4.5	3.3 - 3.8 - 4.3 - 4.9	4.0 - 5.0 - 6.0 - 7.0
		L/S	55 - 63 - 68 - 75	55 - 63 - 72 - 82	67 - 83 - 100 - 117
Sound Pressure Level (Measured in Anechoic Room)		dB <A>	(Low-Mid2-Mid1-High) 22 - 26 - 28 - 30	(Low-Mid2-Mid1-High) 22 - 26 - 29 - 32	(Low-Mid2-Mid1-High) 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		mm (in.)	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		mm	299 × 773 × 237	299 × 898 × 237	299 × 898 × 237
Net Weight		kg	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)
	Water Volume	L	0.7	1.0	1.1
Fan	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
	Airflow Rate		(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)
		m^3/min	4.0 - 5.4 - 7.0 - 8.4	6.3 - 7.6 - 9.0 - 10.4	6.4 - 8.2 - 10.0 - 11.9
		L/S	67 - 90 - 117 - 140	105 - 127 - 150 - 173	107 - 137 - 167 - 198
Sound Pressure Level (Measured in Anechoic Room)		dB <A>	(Low-Mid2-Mid1-High) 22 - 30 - 36 - 41	(Low-Mid2-Mid1-High) 29 - 34 - 38 - 41	(Low-Mid2-Mid1-High) 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		mm (in.)	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°CD.B./19°CW.B., Outdoor: 35°CD.B.
Pipe length: 7.5 m, Level difference: 0 m.

*2 Nominal heating conditions
Indoor: 20°CD.B., Outdoor: 7°CD.B./6°CW.B.
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			kW	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			kW	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)		
	Water Volume		L	2.0	2.0	2.0
Fan	**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
	Airflow 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			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		PAC-SK40LW-E	PAC-SK40LW-E	PAC-SK40LW-E
		Attachment Plate		PAC-SK39AP-E	PAC-SK39AP-E	PAC-SK39AP-E

Notes:

*1 Nominal cooling conditions
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66 °FW.B.), Outdoor: 35°CD.B. (95°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

*2 Nominal heating conditions
Indoor: 20°CD.B. (68°FD.B.), Outdoor: 7°CD.B./6°CW.B. (45°FD.B./43°FW.B.)
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

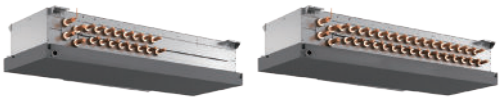
Main HBC				CMB-WM108V-AA		CMB-WM1016V-AA	
Number of Branch				8		16	
Power Source				1-phase 220-230-240 V		1-phase 220-230-240 V	
				50 Hz	60 Hz	50 Hz	60 Hz
Power Input (220/230/240)		Cooling	kW	0.45/0.46/0.47	0.45/0.46/0.47	0.45/0.46/0.47	0.45/0.46/0.47
		Heating	kW	0.45/0.46/0.47	0.45/0.46/0.47	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	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	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		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
	Airflow 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_2O)	0 Pa (0 mmH_2O)
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°CD.B./19°CW.B., Outdoor: 35°CD.B./24°CW.B.
Pipe length: 7.5 m, Level difference: 0 m.
*2 Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CD.B., Outdoor: 7°CD.B./6°CW.B.
Pipe length: 7.5 m, Level difference: 0 m.
*3 -5°CD.B./-6°CW.B. to 21°CD.B./15.5°CW.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-M300YNW-A1 (-BS)		PURY-M350YNW-A1 (-BS)	
Number of HBC Controller				Single HBC	Double HBC	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	9.88	14.93	12.15
	Current Input		A	19.6 - 18.6 - 18.0	16.6 - 15.8 - 15.2	25.2 - 23.9 - 23.0	20.5 - 19.4 - 18.7
	EER		kW / kW	2.87	3.39	2.67	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	10.33	13.14	12.16
	Current Input		A	18.5 - 17.6 - 17.0	17.4 - 16.5 - 15.9	22.1 - 21.0 - 20.3	20.5 - 19.5 - 18.7
	COP		kW / kW	3.40	3.63	3.42	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	
	Airflow 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_2O)		0 Pa (0 mmH_2O)	
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°CD.B./19°CW.B., Outdoor: 35°CD.B./24°CW.B.
Pipe length: 7.5 m, Level difference: 0 m.

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

*3 -5°CD.B./-6°CW.B. to 21°CD.B./15.5°CW.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.

R32

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
	Airflow 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	kW	0.46 x 2	0.46 x 2
	External Static Press.*5		0 Pa (0 mmH_2O)	0 Pa (0 mmH_2O)
Compressor	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°CD.B./19°CW.B., Outdoor: 35°CD.B./24°CW.B.
Pipe length: 7.5 m, Level difference: 0 m.
*2 Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CD.B., Outdoor: 7°CD.B./6°CW.B.
Pipe length: 7.5 m, Level difference: 0 m.
*3 -5°CD.B./-6°CW.B. to 21°CD.B./15.5°CW.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-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	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		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
	Airflow 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_2O)
Compressor	Type		Inverter scroll hermetic compressor
	Starting Method		Inverter
	Motor Output	kW	17.4
	Case Heater	kW	- (- 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 1,750 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°CD.B./19°CW.B., Outdoor: 35°CD.B./24°CW.B.
Pipe length: 7.5 m, Level difference: 0 m.

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

*3 -5°CD.B./-6°CW.B. to 21°CD.B./15.5°CW.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.

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
	Airflow 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_2O)	0 Pa (0 mmH_2O)
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 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°CD.B./19°CW.B., Outdoor: 35°CD.B./24°CW.B.
Pipe length: 7.5 m, Level difference: 0 m.

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

*3 -5°CD.B./-6°CW.B. to 21°CD.B./15.5°CW.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-EM300YNW-A1 (-BS)		PURY-EM350YNW-A1 (-BS)	
Number of HBC Controller			Single HBC	Double HBC	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	13.91	11.33
	Current Input	A	16.9 - 16.0 - 15.5	14.3 - 13.6 - 13.1	23.4 - 22.3 - 21.5	19.1 - 18.1 - 17.5
	EER	kW / kW	3.33	3.93	2.87	3.53
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	13.10	12.16
	Current Input	A	17.6 - 16.7 - 16.1	16.7 - 15.9 - 15.3	22.1 - 21.0 - 20.2	20.5 - 19.5 - 18.7
	COP	kW / kW	3.58	3.77	3.43	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	
	Airflow 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_2O)		0 Pa (0 mmH_2O)	
Compressor	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°CD.B./19°CW.B., Outdoor: 35°CD.B./24°CW.B.
Pipe length: 7.5 m, Level difference: 0 m.

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

*3 -5°CD.B./-6°CW.B. to 21°CD.B./15.5°CW.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.

R32

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
	Airflow 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 HBC controller: CMB-WM108,1016V-AB		

Notes:

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

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

*3 -5°CD.B./-6°CW.B. to 21°CD.B./15.5°CW.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-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	22.4	28.0
	Power Input		kW	6.54	9.92
	Current Input		A	11.0 - 10.4 - 10.1	16.7 - 15.9 - 15.3
	EER		kW / kW	3.42	2.82
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	10.06
	Current Input		A	10.9 - 10.4 - 10.0	16.9 - 16.1 - 15.5
	COP		kW / kW	3.85	3.13
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
	Airflow 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 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	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-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°CD.B./19°CW.B., Outdoor: 35°CD.B.
Pipe length: 7.5 m, Level difference: 0 m.

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

*3 -5°CD.B./-6°CW.B. to 21°CD.B. /15.5°CW.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.

Outdoor Unit				PURY-P300YNW-A1(-BS)		PURY-P350YNW-A1(-BS)	
Number of HBC Controller				Single HBC	Double HBC	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	3.13	11.12	16.26	13.24
	Current Input		A	22.1 - 21.0 - 20.2	18.7 - 17.8 - 17.1	27.4 - 26.0 - 25.1	22.3 - 21.2 - 20.4
	EER		kW / kW	2.55	3.01	2.46	3.02
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	12.71	11.94	13.88	12.85
	Current Input		A	21.4 - 20.3 - 19.6	20.1 - 19.1 - 18.4	23.4 - 22.2 - 21.4	21.6 - 20.6 - 19.8
	COP		kW / kW	2.95	3.14	3.24	3.50
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	
	Airflow 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 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		8.0	
	Maximum Additional Charge	Weight	kg	37.8		41.3	
	Total Charge	Weight	kg	43.0		49.3	
Net Weight			kg	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°CD.B./19°CW.B., Outdoor: 35°CD.B.
Pipe length: 7.5 m, Level difference: 0 m.

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

*3 -5°CD.B./-6°CW.B. to 21°CD.B. /15.5°CW.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-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
	Airflow 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		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 (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°CD.B./19°CW.B., Outdoor: 35°CD.B.
Pipe length: 7.5 m, Level difference: 0 m.

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

*3 -5°CD.B./-6°CW.B. to 21°CD.B. /15.5°CW.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.

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
	Airflow 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_2O)
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-GB1

Notes:

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

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

*3 -5°CD.B./-6°CW.B. to 21°CD.B./15.5°CW.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-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
	Airflow 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 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			kg	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°CD.B./19°CW.B., Outdoor: 35°CD.B.
Pipe length: 7.5 m, Level difference: 0 m.

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

*3 -5°CD.B./-6°CW.B. to 21°CD.B. /15.5°CW.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.

Outdoor Unit				PURY-EP300YNW-A1(-BS)		PURY-EP350YNW-A1(-BS)	
Number of HBC Controller				Single HBC	Double HBC	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	12.05	10.24	14.76	12.01
	Current Input		A	20.3 - 19.3 - 18.6	17.2 - 16.4 - 15.8	24.9 - 23.6 - 22.8	20.2 - 19.2 - 18.5
	EER		kW / kW	2.78	3.27	2.71	3.33
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	11.71	11.12	13.88	12.85
	Current Input		A	19.7 - 18.7 - 18.1	18.7 - 17.8 - 17.1	23.4 - 22.2 - 21.4	21.6 - 20.6 - 19.8
	COP		kW / kW	3.20	3.37	3.24	3.50
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	
	Airflow 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 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		8.0	
	Maximum Additional Charge	Weight	kg	34.3		39	
	Total Charge	Weight	kg	39.5		47.0	
Net Weight			kg	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°CD.B./19°CW.B., Outdoor: 35°CD.B.
Pipe length: 7.5 m, Level difference: 0 m.

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

*3 -5°CD.B./-6°CW.B. to 21°CD.B./15.5°CW.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
	Airflow 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		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	8.0	10.8
Maximum Additional Charge	Weight		kg	39.0	44.7
Total Charge	Weight		kg	47.0	55.5
Net Weight			kg	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°CD.B./19°CW.B., Outdoor: 35°CD.B.
Pipe length: 7.5 m, Level difference: 0 m.

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

*3 -5°CD.B./-6°CW.B. to 21°CD.B./15.5°CW.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.

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
	Airflow 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_2O)
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	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°CD.B./19°CW.B., Outdoor: 35°CD.B.
Pipe length: 7.5 m, Level difference: 0 m

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

*3 -5°CD.B./-6°CW.B. to 21°CD.B./15.5°CW.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

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		m^3/h	5.76	5.76
			L/min	96	96
	Pressure Drop		kPa	24	24
	Operating Volume Range		m^3/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
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°CD.B./19°CW.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°CD.B., 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				PQRY-P300YLM-A1		PQRY-P350YLM-A1	
Number of HBC Controller				Single HBC	Double HBC	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	7.55	6.71	9.98	8.72
	Current Input		A	12.7 - 12.1 - 11.6	11.3 - 10.7 - 10.3	16.8 - 16.0 - 15.4	14.7 - 13.9 - 13.4
	EER		kW / kW	4.43	4.99	4.00	4.58
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	37.5		45.0	
	Power Input		kW	7.13	6.79	8.87	8.25
	Current Input		A	12.0 - 11.4 - 11.0	11.4 - 10.8 - 10.4	14.9 - 14.2 - 13.7	13.9 - 13.2 - 12.7
	COP		kW / kW	5.25	5.52	5.07	5.45
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 ~ WP125/2~45		WP10 ~ WP125/2~50	
Sound Pressure Level (measured in anechoic room)			dB <A>	54		52	
Refrigerant Piping Diameter	High pressure		mm (in.)	19.05 (3/4) Brazed		22.2 (7/8) Brazed	
	Low pressure		mm (in.)	22.2 (7/8) Brazed		28.58 (1-1/8) Brazed	
Circulating Water	Water Flow Rate		m^3/h	5.76		7.20	
			L/min	96		120	
	Pressure Drop		kPa	24		44	
	Operating Volume Range		m^3/h	3.0 ~ 7.2		4.5 ~ 11.6	
Compressor	Type			Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Starting Method			Inverter		Inverter	
	Motor Output		kW	7.7		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		1,450 x 880 x 550	
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		6.0	
	Maximum Additional Charge	Weight	kg	33.0		52.0	
	Total Charge	Weight	kg	38.0		58.0	
Net Weight			kg	170		214	
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, 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°CD.B./19°CW.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°CD.B., 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	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling Capacity [Nominal]*1			kW	45.0	50.0
	Power Input		kW	10.05	12.05
	Current Input		A	16.9 - 16.1 - 15.5	20.3 - 19.3 - 18.6
	EER		kW / kW	4.47	4.14
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	50.0	56.0
	Power Input		kW	9.45	11.11
	Current Input		A	15.9 - 15.1 - 14.6	18.7 - 17.8 - 17.1
	COP		kW / kW	5.29	5.04
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 ~ WP125/2 ~ 50	WP10 ~ WP125/2 ~ 50
Sound Pressure Level (Measured in Anechoic Room)			dB <A>	52	54
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	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	Type			Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting Method			Inverter	Inverter
	Motor Output		kW	10.7	11.6
	Case Heater		kW	–	–
External Finish				Galvanized steel sheets	Galvanized steel sheets
External Dimension H x W x D			mm	1,450 x 880 x 550	1,450 x 880 x 550
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	6.0	6.0
	Maximum Additional Charge	Weight	kg	52.0	53.0
	Total Charge	Weight	kg	58.0	59.0
Net Weight			kg	214	214
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, 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°CD.B./19°CW.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°CD.B., 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				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		m^3/h	7.20
			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
	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°CD.B./19°CW.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°CD.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 Outside 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 Wireless Remote Controller	With Auto Elevation
Panel	PLP-6EA				
	PLP-6EAL	●			
	PLP-6EAE		●		
	PLP-6EALE	●	●		
	PLP-6EAJ	●			●
	PLP-6EAJE	●	●		●
	PLP-6EALM	●		●	
	PLP-6EALME	●	●	●	
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 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

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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: August 2022.

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