

AIR CONDITIONING SYSTEMS

CITY MULTI

City Multi VRF Air Conditioning

Today's commercial buildings are increasingly air tight and filled with heat generating office equipment and lighting, which presents a problem for anyone trying to maintain a stable and comfortable internal environment.

With continual improvements through extensive research and development, our innovative and pioneering City Multi VRF air conditioning systems deliver the ultimate in efficiency and ability whilst providing comfort and control to many building types.

The name Mitsubishi is synonymous with excellence

Founded in 1921, Mitsubishi Electric is now a global, market leading environmental technologies manufacturer. The living Environment Group pioneering solutions that cool, heat, ventilate and control our buildings in some of the most energy efficient ways possible.

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

Providing accurate and controlled comfort all year round, our air conditioning range can work on their own or in conjunction with other systems in a hybrid solution. Whatever the requirement we offer a solution that matches the needs of almost any building.

At Mitsubishi Electric we have evolved and today we offer advanced environmental systems that really can **make a world of difference**.

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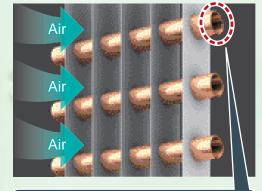
The ultimate heating and cooling solution for your building

The New YKB/YLM Series

New Technology (PUHY/PURY-EP-Y(S)LM-A(-BS) only)

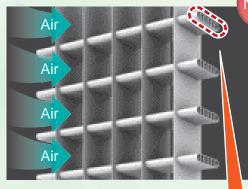
The world-first^{*1} flat-tube heat exchanger significantly improves heat exchange performance achieving high SEER/SCOP and high air-conditioning capacity.

Conventional Heat Exchanger



Conventional Tube Shape

Flat-tube Heat Exchanger



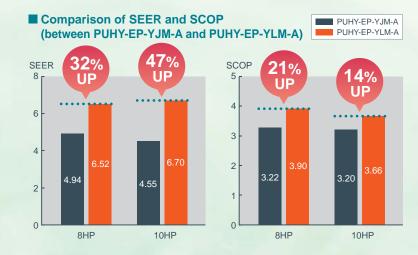
(Illustration)

New Flat Tube

The heat exchanger of the outdoor unit has been drastically changed. Our new outdoor unit model uses a world-first⁻¹ aluminum flat-tube heat exchanger. The flat tubes reduce airflow resistance, and the larger number of tubes can be installed in the flat-tube heat exchanger compared to our conventional heat exchanger, which then increases the surface area that is in contact with the refrigerant, hence improving the performance of the heat-exchanger. Our new air conditioner, therefore, operates at higher SEER/SCOP and maintains the required cooling/heating capacity.

Energy Saving (PUHY/PURY-EP-Y(S)LM-A(-BS) only)

The new YLM series features various advanced technologies including the world-first^{*1} flat-tube heat exchangers, optimum distribution of refrigerant, high efficiency compressor and DC fan motors.



*1: As of October 2013 (according to Mitsubishi Electric, Japan survey); for VRF systems

*2: CITY MULTI series PUHY-EP-Y(S)JM-A

*3: Any continuous operation over 46°C may require an increased frequency of maintenance.

*4: Except for EP300 and EP350 models

New Technology

Equipped with High Efficiency Compressor

Optimizing the capacity of the scroll compressor and modifying the winding of the compressor motor have led to the improvement in operating efficiency by approximately 2 to 7% during partial-load operation.





-10

0

10

Flexibility of Design (PUHY-P-Y(S)KB-A(-BS)/PUHY-EP-Y(S)LM-A(-BS))

The new model can work in cooling mode successfully even at high ambient temperature.

Enhancement in performance in consideration of the actual installation environment of the outdoor unit - expands the cooling operation temperature range up to the ambient temperature of 52°C



With our new flat-tube heat exchanger, the amount of refrigerant to be charged on site can be controlled and reduced. For example, when the total refrigerant piping length is 150 m, the amount of refrigerant to be charged on site can be reduced by approximately 10% compared to our conventional models, achieving reduction in cost and time of the construction work.





CITY MULTI series*2

-5 to 46°C (dry bulb)

New model^{*3}

-5 to 52ºC (dry bulb)

Outdoor Unit Air Intake Temperature (for cooling)

30

40

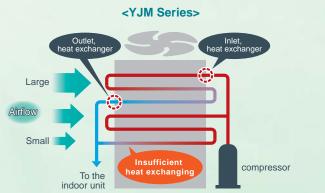
50

20

(°C)

60

New Technology (PUHY-EP-Y(S)LM-A(-BS) only)^{*4} Optimum Distribution of Refrigerant Using a BSC Circuit

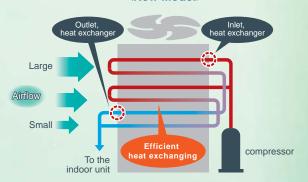


The uniform distribution of the gas-liquid two-phase refrigerant flow throughout the heat exchanger resulted in insufficient heat exchange at the lower part of the heat exchanger where the airflow was lower. <New Model>

Gas Refrigerant (Hot)

Liquid Refrigerant (Cold)

Gas-Liquid Two-Phase Refrigerant



At the upper part of the heat exchanger where the airflow is higher, the gas-liquid two-phase refrigerant has a large cooling capacity which is distributed intensively. This function leads to efficient use of the unit's heat exchanging capacity.



Sophisticated Yet Simple Technology

Reliable

Designed and manufactured to the highest standards, the CITY MULTI range offers one of the most reliable air conditioning systems available. Simple to install and easy to maintain, so this range provides ideal solutions you can trust to protect your investment.



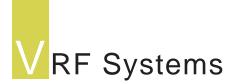




PEFY-VMR

>All the CITY MULTI outdoor units are made under stringent control.

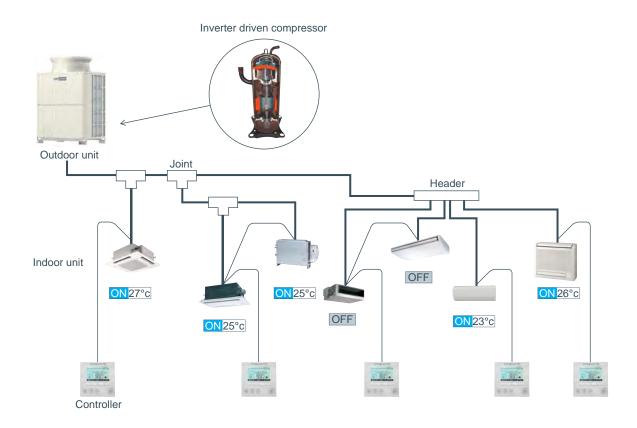
PFFY-VKM



Our Answer to VRF

Mitsubishi Electric sets the boundaries of VRF technology with the CITY MULTI range, which is available using R410A refrigerant with zero ODP (Ozone Depletion Potential). The range has been specifically designed for today's building requirements and addresses key market issues such as energy efficiency, adaptability and reliability. With user friendly control systems utilising internet technology and integrated cooling and ventilation indoor units, CITY MULTI is the benchmark and market leader in VRF technology.

VRF is a multi and direct expansion type air conditioning system where by one outdoor unit can be connected with multiples indoor units. The amount of refrigerant can be regulated freely according to the load on the indoor unit by the inverter driven compressor in the outdoor unit. Zoning in a small office is possible with a small capacity indoor unit. Energy conservation is easily handled because individual indoor units can stop and start their operation as needed. There are various indoor units available in order to suit various interior design needs.



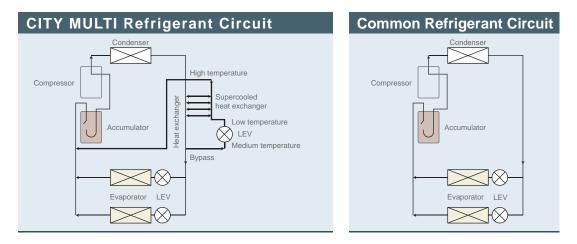




Unbeatable Efficiency

Heat Interchange Circuit

The unique Heat Interchange Circuit (HIC) enhances efficiency by providing additional sub-cooling and allows the expansion device to effectively control the refrigerant distribution, thereby increasing the operating efficiency and reducing the volume of refrigerant in each system.



nverter Driven Compressor Technology





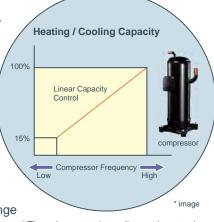
Using inverter driven technology is energy efficient for several reasons:

The compressor varies its speed to match the indoor cooling or heating demand and therefore only consumes the energy that is required.

When an inverter driven system is operating at partial load, the energy efficiency of the system is significantly higher than that of a standard fixed speed, non inverter system.

The fixed speed system can only operate at 100%, however, partial load conditions prevail for the majority of the time. Therefore, fixed speed systems cannot match the annual efficiencies of inverter driven systems.

Using proven single inverter driven compressor technology, the CITY MULTI range is favored by the industry for low starting currents (only 8 amps for a 50kW YLM-A outdoor unit) and smooth transition across the range of compressor frequencies.



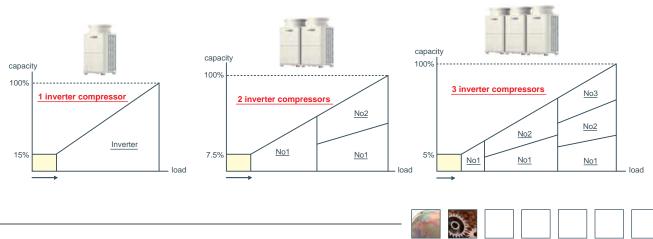
* The values vary depending on the actual conditions such as ambient temperature.

All CITY MULTI compressors are inverter-driven type. -Capable of precisely matching a building's cooling and heating demands. (High COP model)

The outdoor unit combinations include 1 unit for 22.4-50kW systems (for Y and R2 series), 2 units for 56-69kW systems (for R2, 56-101kW) and 3 units for 73-151.2kW systems (Y series only). Each unit carries one inverter compressor making simple and highly reliable control possible.

Not only does it allow low starting currents, the inverter-driven compressor also provides precise indoor comfort and adapts to the air conditioning load.

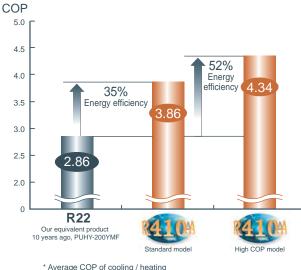
Stable and Smooth Operation





Total Energy Conservation

Comparison of COP (energy efficiency) – 22.4kW system



High COP (Coefficient of Performance) is realized

* Average COP of cooling / heating * The values were obtained under the standard conditions.

ntelligent Power Module (IPM) Technology

The YLM-A range from Mitsubishi Electric provides precise control of energy input, through utilisation of its Intelligent Power Module (IPM) technology. By employing this technology it is possible to closely match the building requirements, achieving more accurate control of the occupied space. By using incremental 1Hz steps of capacity control, the amount of power input required is significantly reduced, resulting in greatly improved COP's.

In addition, IPM technology ensures effective performance under partial load conditions, a condition that most systems will be in for the majority of the normal working life cycle. By taking into account the efficiency at both part load and peak load conditions, R410A CITY MULTI is designed to provide unbeatable year round/seasonal efficiency.

The Difference between YLM-A and Previous Mitsubishi Electric Models

Technology is the key when increased efficiency is demanded. The CITY MULTI YLM-A range is able to deliver this in simple ways.

A highly efficient R410A scroll compressor design results in less friction losses at the motor. A simplified refrigerant circuit (low pressure loss) including a new accumulator design also adds a few more points to the efficiency scale. Enhancements to the heat interchange circuit, an inverter driven fan motor and a heat exchanger design again add vital increases to overall system efficiencies and COPs.

The Importance of COP

COP stands for "Coefficient of Performance". It is a measure of the useful energy a system can deliver compared to the energy it consumes. It is calculated by dividing the energy output by the energy input of a system. The higher the figure then the more efficient the system is deemed to be.





For the Environment

Enhancing Environmental Care (measures for the RoHS Directive and the refrigerant reduction) Every unit is in compliance with the RoHS Directive,* which stands for the Restriction of Hazardous Substances: Lead-free soldering is used to avoid Lead Groundwater Contamination on the printed circuit board (PCB). The amount of refrigerant on the unit has also been reduced to enhance environmental care.

* RoHS Directive: the restriction of the use of certain hazardous substances in electrical and electronic equipment that has been sold in EU since July 2006

Efficient R410A Refrigerant



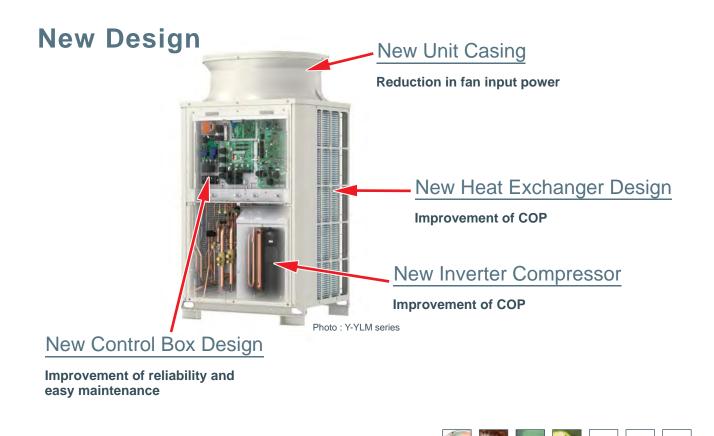
History of Refrigerant

R22, an HCFC-based refrigerant, had been a popular choice for most chillers. However, R22 has been targeted by the Montreal Protocol to be phased out in new equipment. Additionally, governments in many countries are enforcing a ban of HCFC-based refrigerants for new installations.

Because of these restrictions, R410A refrigerants are desirable. R410A is a blend of HFCs, which do not deplete the ozone.

Technical Aspects of Refrigerant

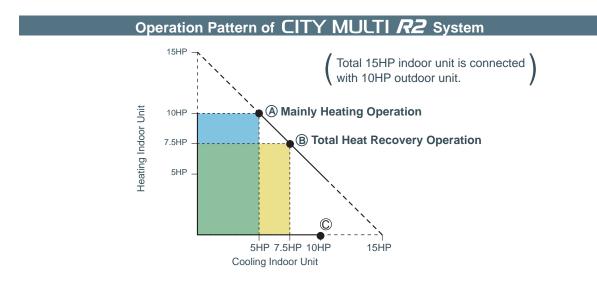
R410A is a more efficient refrigerant as it has a higher specific heat capacity when compared to R407C or R22. This higher energy carrying capacity allows for smaller pipe sizes, longer pipe runs and reduces the volume of refrigerant within a system. This is a major factor when concerning safety and environmental requirements in the design, manufacture, installation, operation, maintenance and disposal or refrigerating systems.





Affordable & Effective air conditioning you can rely on

By the heat recovery system, the more frequently cooling and heating simultaneous operation is carried out, the higher energy-saving effect becomes.

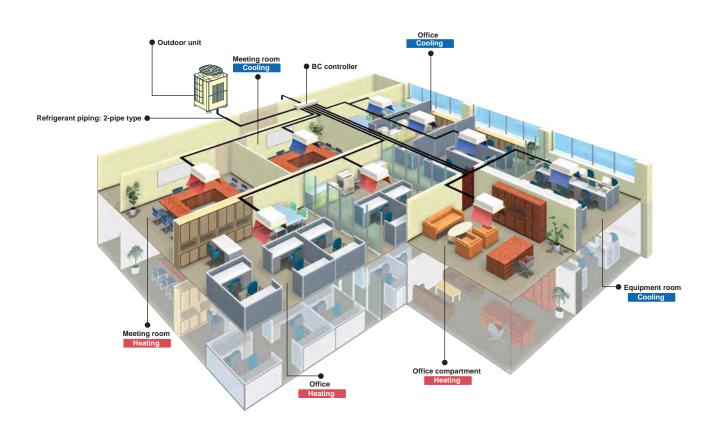


U nique Technology

Unique to Mitsubishi Electric, our heat recovery technology uses just two pipes, as opposed to the market conventional three. Our R2 system designed for effective simultaneous heating and cooling, offers substantial savings on installation and annual running costs.

Why Heat Recovery?

Flexibility and efficiency are key factors when selecting a heat recovery system. For example, while a heat pump system is adequate for a large open-plan office, an office that has a more partitioned structure will require the need to simultaneously heat or cool different sections of the office according to each user's individual preferences. The efficiency of this type of system comes from the ability to use the by-products of cooling and heating to transfer energy where it is required, thus acting as a balanced heat exchanger achieving energy savings over a conventional heat pump system. The number of connection sites needed for a R2 system are also significantly lower than those needed for a three pipe version. This helps to reduce installation costs, further increasing the savings associated with CITY MULTI.



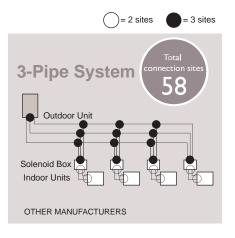




"2-pipe" System Provides Better Efficiency and Performance

Comparison Example of Piping Connection Sites

CITY MULTI R2
Outdoor Unit BC Controller
MITSUBISHI ELECTRIC



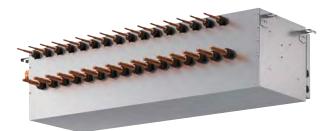
he World's First and Only "2-pipe" System

How does the R2 Heat Recovery System Operate on 2-Pipe's?

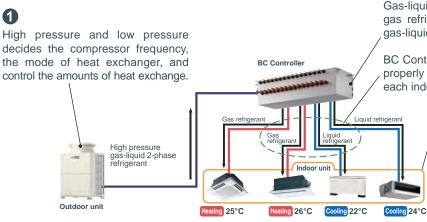
The secret of CITY MULTI heat recovery systems lies in the

BC Controller

The BC Controller houses a liquid/gas separator, allowing the outdoor unit to deliver a mixture (2phase) of hot gas for heating and liquid for cooling, all through the same pipe. Three pipe systems allocate a pipe to each of these phases. When this mixture arrives at the BC Controller, it is separated and the correct phase delivered to each indoor unit depending on the individual requirement of either heating or cooling.







2 R2 Refrigerant Circuit

(3)

Gas-liquid 2-phase refrigerant from outdoor unit into gas refrigerant and liquid refrigerant is divided by gas-liquid separator in BC Controller.

BC Controller divides refrigerant to each indoor unit properly in compliance with the operation mode of each indoor unit.

Adjust the refrigerant flow by temperature difference between inlet and outlet.

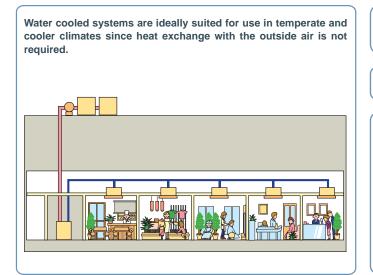
Meet the demand of --- cooling / heating flexibly.

Heating=gas refrigerant Cooling=liquid refrigerant





Water Cooled CITY MULTI Benefits



Water cooled systems can be used even in buildings that are taller than 50m by running a main water pipe through each floor.

Any heat source system that can supply heat source water between $10^\circ\text{C}{\sim}45^\circ\text{C}$ can be used.

Simultaneous heating and cooling operation is available. (WR2 series)

It is suggested that Water-Cooled systems are used in the buildings in which there are heating and cooling needs as follows.

- Buildings that require all year cooling
- Example, • Tenant buildings in which kitchens and offices exist together • Buildings in which equipment rooms and offices exist together
- Buildings where there are large room temperature differences
- Hotels in which there are a lot of individual room requirements

energy Saving Technology

What is Water-Cooled? >A unique offering from Mitsubishi Electric

It is possible now to combine the features of VRF with a water circuit using CITY MULTI WR2/WY. In this case the heat is rejected to a water source rather than to the outside air.

The advantages of water cooled systems are that the water can be delivered at optimised temperatures and volumes, which allows even greater flexibility and increased COP.

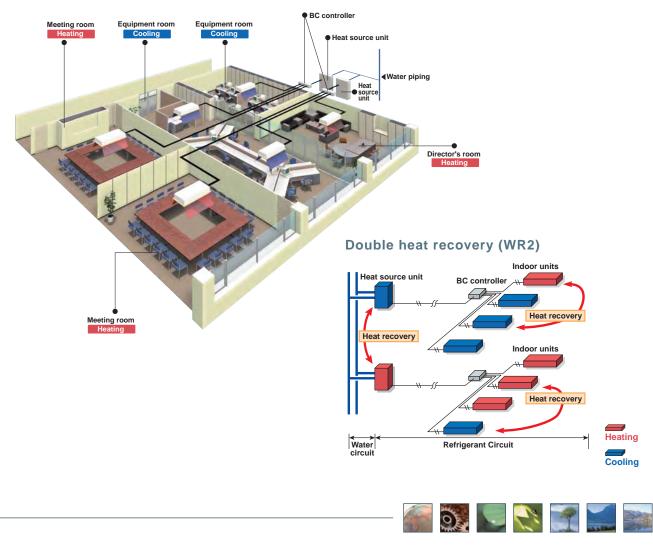


WR2(Heat recovery type)

Mitsubishi Electric now offers double heat recovery operation.

The first heat recovery is within the refrigerant system. Simultaneous cooling and heating operation is available with heat recovery performed between indoor units.

The second heat recovery is within the water loop, where heat recovery is performed between the PQRY units. This double heat recovery operation substantially improves energy efficiency and makes the system the ideal solution to the requirements of modern office buldings, where some areas require cooling even in winter.





O utdoor Unit

- Heat Pump Series (S)
- Heat Pump Series (Y)
- Heat Pump Series High COP (Y)
- Water Cooled Heat Pump Series (WY)
- Heat Recovery Series (R2)
- Heat Recovery Series High COP (R2)
- Water Cooled Heat Recovery Series (WR2)



Wide Selection of Outdoor Units

			kW		12.5	14.0	15.5	22.4	28.0	33.5	40.0	45.0	
System	Туре	Model name	Mode	I	P112		P140	P200	P250	P300	P350		
		S series PUMY-P VKM-A(-BS) PUMY-P YKM-A(-BS)		:33	(25)	14.0	(5.5						
		Y series Page34 PUHY-P YKB-A(-BS) PUHY-P YSKB-A(-BS)	- Page44	S				22.4	28.0			22.4 22.4	
	Heat Pump			L XL			 			33.5	40.0		
		PUHY-EP YLM-A(-BS)	- Page55	S				22.4	28.0				
Air Cooled		PUHY-EP YSLM-A(-BS)		L XL			1 1 1 1 1 1 1 1			33.5	40.0	45.0	
		R2 series Page62 PURY-P YLM-A(-BS)	*1 - Page67	S			- - - - - - - - - - - - - - - - - - -	22.4	28.0			22.4 22.4 22.4	
	Heat Recovery	PURY-P YSLM-A(-BS)		L						33.5	40.0		
			- Page72	XL S			1 1 1 1 1 1	22.4	28.0				
		PURY-EP YLM-A(-BS) PURY-EP YSLM-A(-BS)		L			 			33.5	40.0		
			Page56 - Page	XL								45.0	
Water	Heat Pump	WY series PQHY-P YHM-A PQHY-P YSHM-A	rayeso - rage				• 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	22.4	28.0	33.5		22.4 22.4	
Cooled	Heat Recovery	WR2 series PQRY-P YHM-A PQRY-P YSHM-A	Page73 - Page	75				22.4	28.0	33.5		22.4 22.4	

*1. Indicates S, L, XL modules *2. The circled numbers in the table indicate the Kilowatts(kW), and the combination of S, L, and XL modules.

50.0	56.0	63.0			80.0	85.0											145.6	
P450	P500	P550	P600	P650	P700	P750	P800	P850	P900	P950	P1000	P1050	P1100	P1150	P1200	P1250	P1300	P1350
22.4 28.0	28.0 28.0	28.0	28.0							28.0								
 	J	33.5	40.0	33.5 40.0	40.0 40.0	40.0 45.0				33.5 45.0	33.5 33.5 40.0	33.5 40.0 45.0	40.0 40.0	40.0	40.0 45.0			
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							50.0	50.0	50.0 50.0					50.0	50.0	50.0 50.0	50.0 50.0	50.0 50.0 50.0
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		33.5	33.5 33.5		33.5	33.5	33.5 33.5	33.5 33.5	33.5 33.5 33.5	33.5 33.5 40.0	33.5 33.5	33.5 40.0	40.0 40.0	40.0 40.0	40.0	40.0		
 50.0									33.5		45.0	45.0	45.0	50.0	45.0 50.0	50.0 50.0	45.0 50.0 50.0	50.0 50.0 50.0
	28.0														(50.0)	(50.0)	50.0	50.0
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	28.0 28.0	28.0																
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22.4 28.0	28.0 28.0	28.0 33.5	33.5 33.5	22.4 22.4 28.0	22.4 28.0 28.0	28.0 28.0 28.0	28.0 28.0 33.5	28.0 33.5 33.5	33.5 33.5 33.5									
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22.4 28.0	28.0 28.0	28.0 33.5	33.5 33.5															

Y (Heat Pump) series



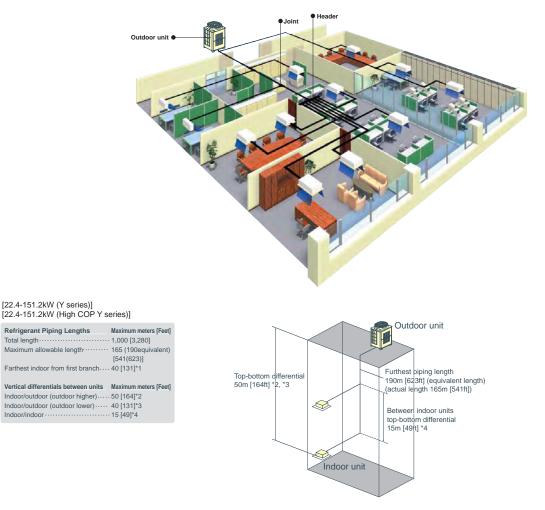
Cooling or Heating

Y series - PUHY-P YKB-A(-BS) PUHY-P YSKB-A(-BS) PUHY-EP YLM-A(-BS) PUHY-EP YSLM-A(-BS)

The two-pipe zoned system designed for Heat Pump Operation

The CITY MULTI Y series (for large applications) make use of a two-pipe refrigerant system, which allows for system changeover from cooling to heating, ensuring that a constant indoor climate is maintained in all zones. The compact outdoor unit utilizes R410A refrigerant and an INVERTER-driven compressor to use energy effectively. With a wide line-up of indoor units in connection with a flexible piping system, the CITY MULTI series can be configured for all applications. Up to 50 (Y series) indoor units can be connected with up to 130% connected capacity to maximize engineer's design options. This feature allows easy air conditioning in each area with convenient individual controllers.

Large Offices (Y series)



*1 90m [295ft] is available. When the piping length exceeds 40m [131ft], use one size larger liquid pipe starting with the section of piping where 40m [131ft] is exceeded and all piping after that point. 2 90m [295ft] is available depending on the model and installation conditions. For more detailed information, contact your local distributor. *3 60m [196ft] is available depending on the model and installation conditions. For more detailed information, contact your local distributor. *3 60m [196ft] is available. If the height difference between indoor units exceeds 15m [49ft] (but does not exceed 30m [98ft]), use one-size larger pipes for indoor unit liquid pipes.



R2 (Heat Recovery) series



Simultaneous Cooling and Heating

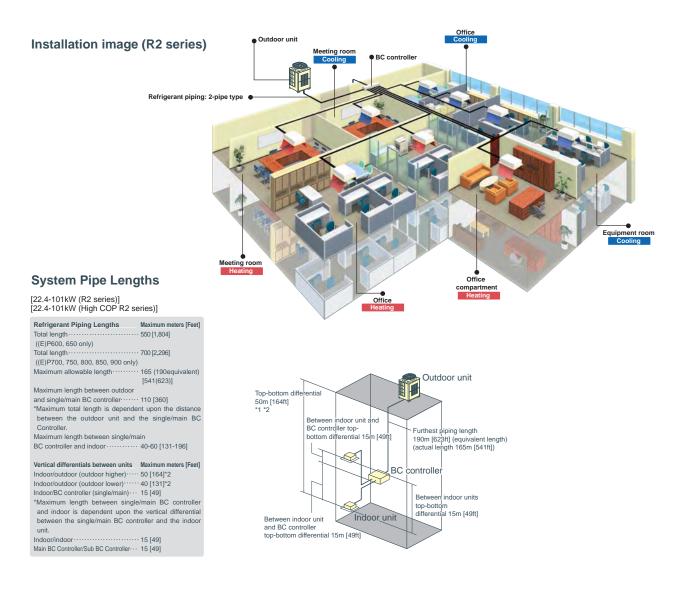
R2 series - PURY-P YLM-A(-BS) PURY-P YSLM-A(-BS)

PURY-EP YLM-A(-BS) PURY-EP YSLM-A(-BS)

The world's first two-pipe system that Simultaneously Cools and Heats

CITY MULTI R2 series offers the ultimate in freedom and flexibility. Cool one zone while heating another. Our exclusive BC controller makes two-pipe simultaneous cooling and heating possible. The BC controller is the technological heart of the CITY MULTI R2 series. It houses a liquid and gas separator, allowing the outdoor unit to deliver a mixture of hot gas for heating and liquid for cooling, all through the same pipe.

This innovation results in minimum energy wasted. Depending on capacity, up to 50 indoor units can be connected with up to 150% connected capacity.



*1 When the outdoor unit is installed below the indoor unit, top-bottom differential is 40m [131ft].

*2 Depending on the model and installation conditions, top-bottom differential 90m [295ft] (o/u above) and 60m [196ft] (o/u below) is available. For more detailed information, please contact your nearest sales office or distributor.

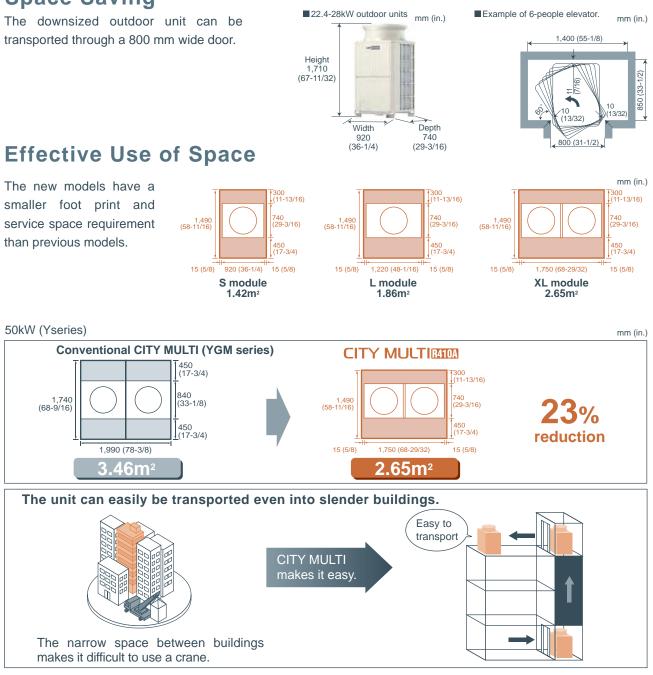
Features in Y (Heat Pump) series & R2 (Heat Recovery) series

Compact Design

The manageability of the outdoor unit has been improved due to a drastic reduction in its weight, leading to easy transportation, installation, and reduction in withstand load.



Space Saving



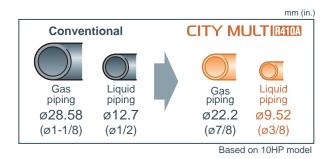
Outdoor Unit

Low Noise Levels New Fan Design

CITY MULTI VRF systems led the introduction of larger single fan motors some ten years ago, achieving substantially lower noise levels over multiple designs. Continuing the development in the areas of blade shape and weight, Mitsubishi Electric have managed to achieve even higher performance and lower noise levels. To reduce noise levels further and comply with inner city residential noise regulations, all outdoor units include low noise mode. This function works by lowering the fan speed and compressor frequency proportionally with reduction in demand.

R410A Pipe Sizing

As R410A has a higher specific heat capacity than R22, the pipework is smaller. This means the pipe itself is cheaper, easier to install and less riser space is required within the building.



Easy Maintenance

Even when one of the indoor units in the system is under maintenance, the other indoor unit can still operate.

* Not applicable to all situations.

* Be sure to turn off the power to the indoor unit when repairing or servicing the unit.





The compressor compartment is sealed by metal panels to attain low noise levels in all directions.

Blue Fin Treatment (PUHY-P-YKB/ PURY-P-YLM only)



The anti-corrosion Blue Fin treatment of the heat exchanger is especially effective in urban environments where the traffic pollutions can damage the aluminum fins reducing the capacity and life expectancy of the unit. All standard CITY MULTI R410A outdoor units have been treated with Blue Fin.

*Standard:Anti-corrosion Blue Fin treatment & copper tube. BS type (optional):salt-resistant cross fin & copper tube.

Salt resistant Cross Fin (PUHY/PURY-EP-Y(S)LM-A only)

For PUHY/PURY-EP-Y(S)LM-A with aluminum flat-tube heat exchanger, salt resistant cross fin is provided as standard.

60Pa High Static Pressure as standard

Both Y and R2 series correspond to high static pressure of 60Pa, ideal and flexible for any type of application.

System Check

Ensuring simple and easy maintenance, system tests are available to check wiring, sensors and the refrigerant amount.

Outdoor Unit

S (Heat Pump) Series

Advanced **Energy-saving Technologies**



S series PUMY-P VKM PUMY-P YKM

Highly efficient fan and grille for outdoor unit

The shapes of the fan and grille of the outdoor unit have been redesigned, realising an increase in blowing capacity and more efficient heat exchange while maintaining the same operating noise level.

Outdoor unit fan opening increased

The diameter of the opening for the fan in the outdoor unit has been increased from 490 to 550mm. Blowing capacity has been increased while maintaining the same fan rotation speed.

Grille shape changed

The shape of the air outlet grille has been changed to reduce pressure loss. This has helped to improve heat exchange performance.



PUMY-P V/YHMB



A high density and increase in surface area have improved the heat-exchange efficiency of the heat exchanger.

High-density heat exchanger

The pipe diameter has been changed from 9.52 to 7.94mm, resulting in a high-density heat exchanger.

Heat-exchange surface area increased

Heat exchanger size extended horizontally, increasing the surface area.

Heat Interchanger (HIC) Added

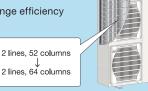
A HIC circuit has been added to improve energy efficiency during cooling operation. Liquid refrigerant is rerouted, transformed into a gas state and injected back into the system to increase overall pressure of the refrigerant being sent to the compressor, thereby reducing the load on the compressor and raising efficiency.

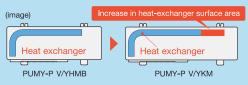


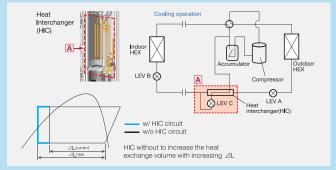
Inflexed fan

Adoption of a fan with improved ventilation characteristics and a newly designed rear edge that suppresses wind turbulence raises fan operation efficiency.













Demand Response Capable

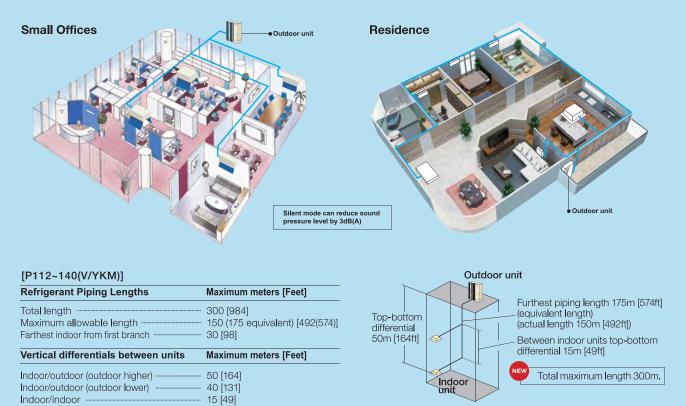
Demand Response mode is activated in response to signals sent from the electric power company at times when it is necessary to reduce peak demand.



The two-pipe zoned system designed for Heat Pump Operation

The CITY MULTI S series (for small applications) make use of a two-pipe refrigerant system, which allows for system changeover from cooling to heating, ensuring that a constant indoor climate is maintained in all zones. The compact outdoor unit utilizes R410A refrigerant and an INVERTER-driven compressor to use energy effectively.

With a wide range of indoor unit line-up in connection with a flexible piping system, the CITY MULTI series can be configured for all applications. Up to 12 (S series) indoor units can be connected with up to 130% connected capacity to maximize engineer's design options. This feature allows easy air conditioning in each area with convenient individual controllers.





Cooling or Heating

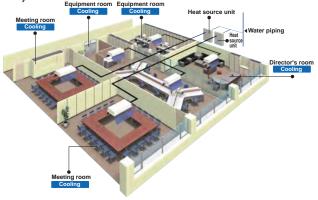
WY series — PQHY-P YHM-A PQHY-P YSHM-A WR2 series — PQRY-P YHM-A PQRY-P YSHM-A

[WY(Heat Pump) series] Water energy source system allows switching between cooling and heating.

The WY-Series has all the benefits of the Y-Series using water source condensing units.

Condensing units can be situated indoors allowing greater design flexibility and no limitation on building size. Depending on capacity, 17 to 50 indoor units can be connected to a single condensing unit with individual and/or centralised control. The two-pipe system allows all CITY MULTI solutions to switch between cooling and heating while maintaining a constant indoor temperature.

Installation image (WY series)

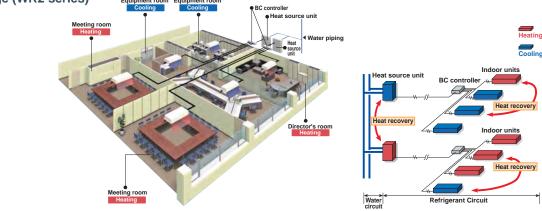


[WR2(Heat Recovery) series] Advanced water heat source unit enjoying the benefits of R2 series

The CITY MULTI WR2 series provides all of the advantages of the R2 series with the added advantages of a water heat source system, making it suitable for wider range of applications in high rises, frigid climates, coastal areas, etc.

Not only does it produce heat recovery from the indoor units on the same 2-pipe refrigerant circuit, it also produces heat recovery via the water circuit between heat source units, making it a very economical system.

Installation image (WR2 series)



Double heat recovery (WR2)

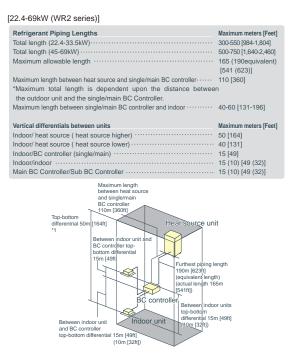


System Pipe Lengths

22.4-101kW (WY series)]	
Refrigerant Piping Lengths Total length (22.4-33.5kW) Total length (45-101kW) Maximum allowable length Farthest indoor from first branch	
Vertical differentials between units Indoor/heat source (heat source higher) Indoor/heat source (heat source lower) Indoor/indoor	40 [131]
Top-bottom differential 50m (1641) *1	Heat source unit Furthet piping length 190m (b23ft) (equivalent length) (actual length 165m (541ft)) Between indow units

*1 When the outdoor unit is installed below the indoor unit, top-bottom differential is 40m [131ft].

Indoor unit



*1 When the outdoor unit is installed below the indoor unit, top-bottom differential is 40m [131ft].

COP comparison (energy efficiency)

15m [49ft

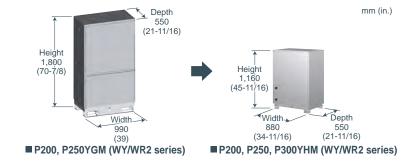
The current water cooled outoor unit offers a greater efficiency with a higher COP compared to our YGM conventional model.

COP comparison	
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		kW	22.4	28.0	33.5	45.0	50.0	56.0	63.0	69.0	73.0	80.0	85.0	90.0	96.0	101.0
	YGM	Cooling	4.68	4.71	-	3.96	-	3.72	-	-	-	-	-	-	-	-
PQHY	T GIVI	Heating	4.68	4.71	-	3.96	-	3.72	-	-	-	-	-	-	-	-
FQHT	YHM	Cooling	5.71	5.13	4.55	5.45	5.08	4.89	4.68	4.45	5.22	5.13	4.94	4.69	4.52	4.34
	I LIVI	Heating	6.06	5.43	4.60	5.78	5.37	5.22	4.70	4.46	5.52	5.33	5.19	4.82	4.65	4.40
	YGM	Cooling	4.68	4.71	-	3.96	-	3.72	-	-	-	-	-	-	-	-
PQRY	T GIVI	Heating	5.33	5.43	-	4.54	-	4.63	-	-	-	-	-	-	-	-
FQRT	YHM	Cooling	5.65	5.08	4.50	5.40	5.03	4.84	4.63	4.41	-	-	-	-	-	-
	IVIPIN	Heating	6.06	5.43	4.60	5.78	5.37	5.22	4.70	4.46	-	-	-	-	-	-

Compact design

Downsized by approximately 57%*, the current models enable an effective use of space.



Weight saving

The reduction in weight leads to easy transportaion and installation.

Weight	comparisor	n														unit : kg
		kW	22.4	28.0	33.5	45.0	50.0	56.0	63.0	69.0	73.0	80.0	85.0	90.0	96.0	101.0
PQHY	YGM		272	275	-	452	-	456	-	-	-	-	-	-	-	585
FQITT	YHM		195	195	195	390	390	390	390	390	585	585	585	585	585	-
PQRY	YGM		263	266	-	440	-	444	-	-	-	-	-	-	-	-
FQRT	YHM		181	181	181	362	362	362	362	362	-	-	-	-	-	

OUTDOOR UNIT S Series PUMY-P VKM-A(-BS)





Model			PUMY-P112VKM-A (-BS)	PUMY-P125VKM-A (-BS)	PUMY-P140VKM-A (-BS)
Power source			1-phase 230V 50Hz	1-phase 230V 50Hz	1-phase 230V 50Hz
Cooling capacity	*1	kW	12.5	14.0	15.5
(Nominal)	*1	BTU / h	42,700	47,800	52,900
	Power input	kW	2.79	3.46	4.52
	Current input	A	12.32	15.27	19.95
	AEER/EER	kW / kW	4.13/4.48	3.76/4.05	3.22/3.43
Temp. range of	Indoor temp.	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
cooling	Outdoor temp.	D.B.	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)
Heating capacity	*2	kW	14.0	16.0	18.0
(Nominal)			47,800	54,600	61,400
		kW	3.13	3.74	4.47
	Current input	A	13.82	16.51	19.73
	ACOP/COP	kW / kW	4.20/4.47	4.03/4.28	3.81/4.03
Temp. range of	Indoor temp.	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)
heating	Outdoor temp.	W.B.	-20.0°C(-4°F)	-20.0°C(-4°F)	-20.0°C(-4°F)
Indoor unit	Total capacity		50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity
connectable	Model / Quantity		P15~P140/9	P15~P140/10	P15~P140/12
Sound pressure le (measured in ane	evel	dB <a>	49/51	50/52	51/54
Refrigerant piping	Liquid pipe	mm (in.)	9.52(3/8) Flare	9.52(3/8) Flare	9.52(3/8) Flare
diameter	Gas pipe	mm (in.)	15.88(5/8) Flare	15.88(5/8) Flare	15.88(5/8) Flare
FAN	Type x Quantity		Propeller Fan x 2	Propeller Fan x 2	Propeller Fan x 2
	Air flow rate	m³/min	110	110	120
		L/s	1,833	1,833	2,000
		cfm	3.884	3.884	4.237
	Motor output	kW	0.06 + 0.06	0.06 + 0.06	0.06 + 0.06
Compressor	Type x Quantity		Scroll hermetic compressor x 1	Scroll hermetic compressor x 1	Scroll hermetic compressor x 1
·	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	3.0	3.5	4.0
External finish			Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1	Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1	Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1
External dimensio	n HxWxD	mm	1,338 x 1,050 x 330 (+25)	1,338 x 1,050 x 330 (+25)	1,338 x 1,050 x 330 (+25)
		in.	52-11/16 x 41-11/32 x 13 (+1)	52-11/16 x 41-11/32 x 13 (+1)	52-11/16 x 41-11/32 x 13 (+1)
Protection	High pressure pr	otection	High pressure Switch	High pressure Switch	High pressure Switch
devices	Inverter circuit (CO	MP./FAN)	Overcurrent detection, Overheat detection (Heatsink thermistor)	Overcurrent detection, Overheat detection (Heatsink thermistor)	Overcurrent detection, Overheat detection (Heatsink thermistor)
	Compressor		Compressor thermistor, Over current detection	Compressor thermistor, Over current detection	Compressor thermistor, Over current detection
	Fan motor		Overheating, Voltage protection	Overheating, Voltage protection	Overheating, Voltage protection
Refrigerant	Type x original cl	narge	R410A 4.8kg	R410A 4.8kg	R410A 4.8kg
Net weight	· · · · · · · · · · · · · · · · · · ·	kg (lbs)	123(272)	123(272)	123(272)
Heat exchanger			Plate fin coil	Plate fin coil	Plate fin coil
Defrosting method	1		Reversed refrigerant circuit	Reversed refrigerant circuit	Reversed refrigerant circuit
Optional parts			Joint: CMY-Y62-G-E	Joint: CMY-Y62-G-E	Joint: CMY-Y62-G-E
			Header: CMY-Y64/68-G-E	Header: CMY-Y64/68-G-E	Header: CMY-Y64/68-G-E

Notes:

*1,*2 Nominal conditions

۰,	2 Norminal conditio	113			
		Indoor	Outdoor	Pipe length	Level difference
	Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*Nominal condition *1,*2 are subject to ISO 15042. *Due to continuing improvement, above specification may be subject to change without notice.



OUTDOOR UNIT S Series PUMY-P YKM-A(-BS)





Model			PUMY-P112YKM-A (-BS)	PUMY-P125YKM-A (-BS)	PUMY-P140YKM-A (-BS)	
Power source			3-phase 400V 50Hz	3-phase 400V 50Hz	3-phase 400V 50Hz	
Cooling capacity	*1	kW	12.5	14.0	15.5	
(Nominal)	*1	BTU / h	42,700	47,800	52,900	
, ,	Power input	kW	2.79	3.46	4.52	
	Current input	A	4.24	5.26	6.87	
	AEER/EER	kW / kW	4.07/4.48	3.71/4.05	3.19/3.43	
Temp. range of	Indoor temp.	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	
cooling	Outdoor temp.	D.B.	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)	
Heating capacity	*2	kW	14.0	16.0	18.0	
(Nominal)	lominal) *2 BTU		47,800	54,600	61,400	
	Power input	kW	3.13	3.74	4.47	
	Current input	A	4.76	5.68	6.79	
	ACOP/COP	kW / kW	4.14/4.47	3.99/4.28	3.78/4.03	
Temp. range of	Indoor temp.	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	
heating	Outdoor temp.	W.B.	-20.0°C(-4°F)	-20.0°C(-4°F)	-20.0°C(-4°F)	
Indoor unit	Total capacity		50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	
connectable	Model / Quantity		P15~P140/9	P15~P140/10	P15~P140/12	
Sound pressure le (measured in ane		dB <a>	49/51	50/52	51/54	
Refrigerant piping	Liquid pipe	mm (in.)	9.52(3/8) Flare	9.52(3/8) Flare	9.52(3/8) Flare	
diameter	Gas pipe	mm (in.)	15.88(5/8) Flare	15.88(5/8) Flare	15.88(5/8) Flare	
FAN	Type x Quantity		Propeller Fan x 2 Propeller Fan x 2		Propeller Fan x 2	
	Air flow rate	m³/min	110	110	120	
		L/s	1,833	1,833	2,000	
		cfm	3,884	3,884	4,237	
	Motor output	kW	0.06 + 0.06	0.06 + 0.06	0.06 + 0.06	
Compressor	Type x Quantity		Scroll hermetic compressor x 1	Scroll hermetic compressor x 1	Scroll hermetic compressor x 1	
	Starting method		Inverter	Inverter	Inverter	
	Motor output	kW	3.0	3.5	4.0	
External finish			Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1	Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1	Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1	
External dimensio	n HxWxD	mm	1,338 x 1,050 x 330 (+25)	1,338 x 1,050 x 330 (+25)	1,338 x 1,050 x 330 (+25)	
		in.	52-11/16 x 41-11/32 x 13 (+1)	52-11/16 x 41-11/32 x 13 (+1)	52-11/16 x 41-11/32 x 13 (+1)	
Protection	High pressure pre	otection	High pressure Switch	High pressure Switch	High pressure Switch	
devices	Inverter circuit (CO	MP./FAN)	Overcurrent detection, Overheat detection (Heatsink thermistor)	Overcurrent detection, Overheat detection (Heatsink thermistor)	Overcurrent detection, Overheat detection (Heatsink thermistor)	
	Compressor		Compressor thermistor, Over current detection	Compressor thermistor, Over current detection	Compressor thermistor, Over current detection	
	Fan motor		Overheating, Voltage protection	Overheating, Voltage protection	Overheating, Voltage protection	
Refrigerant	Type x original ch	narge	R410A 4.8kg	R410A 4.8kg	R410A 4.8kg	
Net weight		kg (lbs)	125(276)	125(276)	125(276)	
Heat exchanger			Plate fin coil	Plate fin coil	Plate fin coil	
Defrosting method	ł		Reversed refrigerant circuit	Reversed refrigerant circuit	Reversed refrigerant circuit	
Optional parts			Joint: CMY-Y62-G-E	Joint: CMY-Y62-G-E	Joint: CMY-Y62-G-E	
-			Header: CMY-Y64/68-G-E	Header: CMY-Y64/68-G-E	Header: CMY-Y64/68-G-E	

Notes:

*1,*2 Nominal conditions

۰,	2 Norminal conditio	113			
[Indoor	Outdoor	Pipe length	Level difference
	Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
[Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*Nominal condition *1,*2 are subject to ISO 15042. *Due to continuing improvement, above specification may be subject to change without notice.

OUTDOOR UNIT Y Series PUHY-P YKB-A(-BS)

Specifications



Model			PUHY-P200YKB-A (-BS) PUHY-P250YKB-A (-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	*1	kW	22.4	28.0
(Nominal)			76,400	95,500
	Power input	kW	6.12	8.09
	Current input	A	10.3-9.8-9.4	13.6-12.9-12.5
	EER	kW / kW	3.66	3.46
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling	Outdoor	D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)
Heating capacity	*2		25.0	31.5
(Nominal)	*2	BTU / h	85,300	107,500
	Power input	kW	6.15	8.33
	Current input	A	10.3-9.8-9.5	14.0-13.3-12.8
	COP	kW / kW	4.06	3.78
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
heating	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit	Total capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
connectable	Model / Quantity		P15~P250/1~17	P15~P250/1~21
Sound pressure le (measured in anec		dB <a>	57	59
	Sound power level (measured in anechoic room) dB <a>		78	79
Refrigerant piping		mm (in.)	9.52 (3/8) Brazed	9.52 (3/8) Brazed (12.7 (1/2) Brazed, farthest length >= 90 m)
diameter	Gas pipe	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1
	Air flow rate	m ³ /min	175	175
		L/s	2,917	2,917
		cfm	6,179	6,179
	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
*3	External static press.		0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)
Compressor	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter
	Motor output	kW	5.5	6.9
	Case heater	kW	_	-
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>
External dimension	n HxWxD	mm	1,710 (1,650 without legs) x 920 x 740	1,710 (1,650 without legs) x 920 x 740
		in.	67-3/8 (65 without legs) x 36-1/4 x 29-3/16	67-3/8 (65 without legs) x 36-1/4 x 29-3/16
Protection	otection 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)
devices	Inverter circuit (CO	MP./FAN)	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection
	Fan motor		Over-current protection	Over-current protection
Refrigerant			R410A x 6.5 kg (15 lbs)	R410A x 8.0 kg (18 lbs)
Net weight		kg (lbs)	190 (419)	199 (439)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
Optional parts			Joint: CMY-Y102SS/LS-G2	Joint: CMY-Y102SS/LS-G2
			Header: CMY-Y104/108/1010-G	Header: CMY-Y104/108/1010-G

Notes:

*1,*2 Nominal conditions

	Indoor	Indoor Outdoor		Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

¹ Szternal static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).
 *Nominal condition *1,*2 are subject to JIS B8615-1.
 *Due to continuing improvement, above specification may be subject to change without notice.



OUTDOOR UNIT Y Series PUHY-P YKB-A(-BS)





Model			PUHY-P300YKB-A (-BS)	PUHY-P350YKB-A (-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	*1	kW	33.5	40.0		
(Nominal)	*1	BTU / h	114,300	136,500		
	Power input	kW	9.49	11.79		
	Current input	A	16.0-15.2-14.6	19.9-18.9-18.2		
	EER	kW / kW	3.53	3.39		
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)		
cooling	Outdoor	D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)		
Heating capacity	*2		37.5	45.0		
(Nominal)	*2	BTU / h	128,000	153,500		
	Power input	kW	9.89	13.23		
	Current input	A	16.6-15.8-15.2	22.3-21.2-20.4		
	COP	kW / kW	3.79	3.40		
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)		
heating	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)		
Indoor unit	Total capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity		
connectable	Model / Quantity		P15~P250/1~26	P15~P250/1~30		
Sound pressure le (measured in ane		dB <a>	61	61		
Sound power leve (measured in ane		dB <a>	83	83		
Refrigerant piping	Liquid pipe	mm (in.)	9.52 (3/8) Brazed (12.7 (1/2) Brazed, farthest length >= 40 m)	12.7 (1/2) Brazed		
diameter	Gas pipe	mm (in.)	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed		
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1		
	Air flow rate	m³/min	210	210		
		L/s	3,500	3,500		
		cfm	7,415	7,415		
	Driving mechanis		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor		
	Motor output	kW	0.92 x 1	0.92 x 1		
*3 External static press.		ess.	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)		
Compressor	Compressor Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor		
	Starting method		Inverter	Inverter		
	Motor output	kW	8.1	10.5		
	Case heater	kW	-	-		
External finish				Pre-coated galvanized steel sheets (+powder coating for -BS type)		
			<munsell 1="" 5y="" 8="" or="" similar=""></munsell>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>		
External dimension	n HxWxD	mm	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,220 x 740		
	T	in.	67-3/8 (65 without legs) x 48-1/16 x 29-3/16	67-3/8 (65 without legs) x 48-1/16 x 29-3/16		
Protection				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
devices Inverter circuit (0		MP./FAN)	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection		
	Compressor		Over-heat protection	Over-heat protection		
	Fan motor		Over-current protection	Over-current protection		
Refrigerant	Type x original ch		R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)		
Net weight		kg (lbs)	251 (554)	251 (554)		
Heat exchanger			Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & copper tube		
Optional parts			Joint: CMY-Y102SS/LS-G2	Joint: CMY-Y102SS/LS-G2,CMY-Y202S-G2		
			Header: CMY-Y104/108/1010-G	Header: CMY-Y104/108/1010-G		

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

¹ Szternal static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).
 *Nominal condition *1,*2 are subject to JIS B8615-1.
 *Due to continuing improvement, above specification may be subject to change without notice.

OUTDOOR UNIT Y Series PUHY-P YSKB-A(-BS)

► Specifications



Model			PUHY-P400Y	(SKB-A (-BS)	PUHY-P450Y	(SKB-A (-BS)	PUHY-P500Y	(SKB-A (-BS)	
Power source				400-415 V 50/60 Hz	3-phase 4-wire 380-			400-415 V 50/60 Hz	
Cooling capacity	*1	kW		5.0).0		6.0	
Nominal) *1 BTU / h			.500		.600		.100		
(Norman)	Power input	kW		.96		.74		.91	
Current input A		A kW / kW	21.8-20.7-20.0			24.8-23.6-22.7 3.39		28.5-27.1-26.1 3.31	
- <i>'</i>	EER		÷.						
Temp. range of	Indoor	W.B.	15.0~24.0°		15.0~24.0°C (59~75°F)		15.0~24.0°		
cooling	Outdoor	D.B.	-5.0~52.0°C		-5.0~52.0°C		-5.0~52.0°C		
Heating capacity	*2		50.0		56.0		63.0		
(Nominal)		*2 BTU / h		,600		,100		,000	
	Power input kW		12.98		15.05		17.54		
	Current input	A).8-20.0		.1-23.2	29.6-28		
	COP	kW / kW		85		72		59	
Temp. range of	Indoor	D.B.	15.0~27.0°0		15.0~27.0°0		15.0~27.0°		
heating	Outdoor	W.B.	-20.0~15.5°	C (-4~60°F)	-20.0~15.5°	C (-4~60°F)	-20.0~15.5°	C (-4~60°F)	
Indoor unit	Total capacity		50~130% of outo	loor unit capacity	50~130% of outo	loor unit capacity	50~130% of outo	loor unit capacity	
connectable	Model / Quantity		P15~P2	50/1~34	P15~P2	50/1~39	P15~P2	50/1~43	
Sound pressure le	evel			0		F			
(measured in ane		dB <a>	6	0	61	.5	62		
Sound power leve						•			
(measured in ane		dB <a>	8	1	8	2	8	2	
Refrigerant piping		mm (in.)	12.7 (1/2) Brazed 15.88 (5/8) Brazed		15.88 (5/8) Brazed				
diameter	Gas pipe	mm (in.)		/8) Brazed	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		
Set Model					(() = = = = = =	20100 (1 1/0) 214204		
Model			PUHY-P200YKB-A (-BS)	PUHY-P200YKB-A (-BS)	PUHY-P200YKB-A (-BS)	PUHY-P250YKB-A (-BS)	PUHY-P250YKB-A (-BS)	PUHY-P250YKB-A (-BS)	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	
	Air flow rate	m³/min	175	175	175	175	175	175	
	All now rate	L/s	2,917	2,917	2,917	2,917	2,917	2,917	
		cfm	6,179	6.179	6,179	6.179	6,179	6,179	
	Driving mechanis			ect-driven by motor		rect-driven by motor		rect-driven by motor	
	Motor output kW		0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	
*2			0.92 x 1 0 Pa (0 mmH ₂ O)	0.92 x 1 0 Pa (0 mmH ₂ O)	0.92 x 1 0 Pa (0 mmH ₂ O)	0.92 x 1 0 Pa (0 mmH ₂ O)	0.92 x 1 0 Pa (0 mmH ₂ O)	0.92 x 1 0 Pa (0 mmH ₂ O)	
	External static press.								
Compressor	Type x Quantity		Inverter scroll her		Inverter scroll her			metic compressor	
	Starting method	1.14/	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	5.5	5.5	5.5	6.9	6.9	6.9	
	Case heater	kW	-	-	-	-	-	-	
External finish				nized steel sheets		nized steel sheets		nized steel sheets	
				ng for -BS type)	(+powder coating for -BS type)		(+powder coating for -BS type)		
		T		8/1 or similar>	<munsell 5y<="" td=""><td></td><td></td><td>' 8/1 or similar></td></munsell>			' 8/1 or similar>	
External dimensio	n HxWxD	mm		1,710 (1,650 without		1,710 (1,650 without		1,710 (1,650 without	
			legs) x 920 x 740	legs) x 920 x 740	legs) x 920 x 740	legs) x 920 x 740	legs) x 920 x 740	legs) x 920 x 740	
		in.			67-3/8 (65 without legs)				
			x 36-1/4 x 29-3/16	x 36-1/4 x 29-3/16	x 36-1/4 x 29-3/16	x 36-1/4 x 29-3/16	x 36-1/4 x 29-3/16	x 36-1/4 x 29-3/16	
Protection High pressure protection		High pressure sensor, High pressure switch							
devices			at 4.15 MP		at 4.15 MP			Pa (601 psi)	
	Inverter circuit (COMP./FAN)			Over-current protection		Over-current protection		Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	
	Fan motor		Over-current protection	Over-current protection	Over-current protection	Over-current protection	Over-current protection	Over-current protection	
Refrigerant	Type x original cl	narge	R410A x 6.5 kg (15 lbs)	R410A x 6.5 kg (15 lbs)	R410A x 6.5 kg (15 lbs)	R410A x 8.0 kg (18 lbs)	R410A x 8.0 kg (18 lbs)	R410A x 8.0 kg (18 lbs)	
Net weight	-	kg (lbs)	190 (419)	190 (419)	190 (419)	199 (439)	199 (439)	199 (439)	
Heat exchanger		Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube		
Pipe between unit	Liquid pipe	mm (in.)	9.52 (3/8) Brazed	9.52 (3/8) Brazed	9.52 (3/8) Brazed	9.52 (3/8) Brazed	9.52 (3/8) Brazed	9.52 (3/8) Brazed	
and distributor	Gas pipe	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	
Optional parts		, .,		it: CMY-Y100VBK3	Outdoor Twinning k			kit: CMY-Y100VBK3	
			Joint: CMY-Y		Joint: CMY-Y			102SS/LS-G2,	
				202S/302S-G2		202S/302S-G2		202S/302S-G2	
				104/108/1010-G		104/108/1010-G		104/108/1010-G	

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m (24-9/16ft.)	0m (0ft.)
	(81°F DB/66°F WB)	(95°F DB/75°F WB)	7.511 (24-5/1011.)	
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 External static pressure option is available (30Pa, $60Pa / 3.1mmH_2O$, $6.1mmH_2O$). *Nominal condition *1,*2 are subject to JIS B8615-1.

*Due to continuing improvement, above specification may be subject to change without notice.





Over-heat protection, Over-current protection Over-heat protection, Over-current protection, Over-heat protection, Over-current protection

Over-heat protection Over-heat protection Over-heat protection Over-heat protection Over-heat protection Over-current protection Over-c

R410A x 8.0 kg (18 lbs) R410A x 11.5 kg (26 lbs) R410A x 8.0 kg (18 lbs) R410A x 11.5 kg (26 lbs 199 (439)251 (554)Salt-resistant cross fin & copper tube

 9.52 (3/8) Brazed
 12.7 (1/2) Brazed

 22.2 (7/8) Brazed
 28.58 (1-1/8) Brazed

Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2

Header: CMY-Y104/108/1010-G

251 (554)

Salt-resistant cross fin & copper tube

 12.7 (1/2) Brazed
 12.7 (1/2) Brazed

 22.2 (7/8) Brazed
 28.58 (1-1/8) Brazed

Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2

Header: CMY-Y104/108/1010-G



Specifications

Cooling capacity (Nominal) *1 BTU / h kW 63.0 69.0 73.0 (Nominal) *1 BTU / h 215,000 235,400 249,100 Power input kW 18.91 21.16 22.25 Current input A 31.9-30.3-29.2 35.7-33.9-32.7 37.5-36.6-34.3 EER kW/ kW 3.33 3.26 3.28 Temp. range of lodor Indoor W.B. 15.0-24.0°C (59-75°F) 15.0-24.0°C (59-75°F) Gooling Outdor D.B. -5.0-52.0°C (23-126°F) -5.0-52.0°C (23-126°F) Heating capacity *2 kW 69.0 76.5 81.5 (Nominal) *2 BTU / h 235,400 261,000 278,100 2 BTU / h 235,400 21.243 23.90 Current input A 32.4-30.8-29.7 37.8-35.9-34.6 40.3-38.3-36.9 COP kW/ kW 3.59 3.41 3.41 3.41 heating Outdoor D.B. 15.0-27.0°C (59-81°F) 15.0-27.0°C (59-81°F) 15.0-27.0°C (59-81°F)	Model	PUHY-P550YSKB-A (-BS) PUHY-P600YSKB-A (-BS)		(SKB-A (-BS)	PUHY-P650Y	SKB-A (-BS)			
Nominal) **1 FDU / h 215,000 235,400 249,100 Power input KW 18.91 21.16 22.25 EER KW/KW 3.33 3.26 3.7.536,6:43.3 Temp, range of Indoor W.B. 15.0-24.0°C (59-75°F) 15.0-24.0°C (59-75°F) 15.0-24.0°C (59-75°F) Ouldoor D.B. -5.0-52.0°C (23-126°F) -5.0-52.0°C (23-126°F) -5.0-52.0°C (23-126°F) Heating capacity *2 KW 99.0 75.5 81.5 Current input AW 19.22 22.43 22.43 23.90 Current input A 32.65 34.4 34.1 34.1 Temp, range of Indoor Indoo B 15.0-27.0°C (59-81°F) <				3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz	
Power input I/W 118 d1 21.16 22.25 Current input A 319-303-392 35.733.69.327 37.536.63.43 Temp, range of lindoor Indoor D.B. -5.0-52.0°C (23-126°F) 15.0-24.0°C (59-75°F) 15.0-24.0°C (59-75°F) Heating capacity (Nominal) VW 69.0 76.5 81.5 Power input KW 19.22,47 23.73.36,9 23.63 Corrent input KW 19.22,47 22.43 23.90 Power input KW 19.22,47 22.43 23.90 Corrent input KW 19.22,47 22.43 23.90 Corrent input KW 19.22,07 37.83,69-34.6 40.338.34.9 Corrent input A 32.430.2.97 37.83,69-34.6 40.33.33.36.9 Corrent input A 32.430.2.97 37.83,69-34.6 40.338.336.9 Corrent input A 32.430.2.97 50.130% of outdoor unit capacity 50-130% of outdoor unit capacity Corrent input A 32.430.2.97 50.130% of outdoor unit capacit	Cooling capacity	*1	kW	. 63	3.0	69.0		73	3.0
Power input Current input Feel (adaption (bit (bit (bit (bit (bit (bit (bit (bit	(Nominal)	*1	BTU / h	215,000		235,400		249,100	
LER KW / KW Constraint Size Size Cooling Indoor W.B. 15.0-24.0°C (59-75°F) 15.0-24.0°C (29-75°F) 15.0-24.0°C (29-75°F) Heating capacity 2 KW 69.0 76.5 81.5 (Nominal) 2 KW 69.0 76.5 81.5 (Nominal) 2 BTU / h 235.400 261.000 278,100 (Corrent input A 32.4-30.8-29.7 37.8-35.9-34.6 403.33.3-36.9 (Tomp, range of Indoor Indoor NB 15.0-27.0°C (59-81°F) 15.0-27.0°C (59-81°F) 15.0-27.0°C (59-81°F) 15.0-27.0°C (59-81°F) Tool appart 50-130% of outdoor unit capacity Sound prosent level (measured in anechoic room) dB <a> 63.5 63.5 64 Sound prosent level (measured in anechoic room) dB <a> 84.5 86.5 86.5 FAN 15.88 (5/8) Brazed 15.88 (5/8) Brazed 15.88 (5/8) Brazed 15.88 (5/8) Brazed 15.88 (5/8) Brazed<td></td><td></td><td></td><td>18</td><td>.91</td><td>21</td><td>.16</td><td>22</td><td>.25</td>				18	.91	21	.16	22	.25
Temp. range of Outdoor Indoor WB. 15.0-24.0°C (59-75°F) 15.0-24.0°C (59-75°F) 15.0-24.0°C (59-75°F) Heating capacity 2 KW 69.0 76.5 61.5 Nominal 2 BTU / h 23.400 261.000 276.10 Power input KW 19.22 22.43 23.90 276.10 Corp KW / KW 3.59 3.41 3.41 3.41 Temp. range of Indoor unit connectable Indoor D.B. 15.0-27.0°C (59-81°F) 15.0-27.0°C (59-81°F) 15.0-27.0°C (59-81°F) Indoor D.B. 15.0-27.0°C (59-81°F) 15.0-27.0°C (59-81°F) 15.0-27.0°C (59-81°F) 15.0-27.0°C (59-81°F) Indoor D.B. 15.0-27.0°C (59-81°F) 2.00-15.5°C (-4-60°F)	Current input		Α	31.9-30).3-29.2	35.7-3	3.9-32.7	37.5-35	5.6-34.3
cooling Outdoor D.B. 5-0-52.0°C (23-126°F) 5-0-52.0°C (23-126°F) Heating capacity *2 BTU / h 23-0 81.5 81.5 (Nominal) *2 BTU / h 23.90 27.8 100 27.8 100 Current input A 32.4-30.6-29.7 37.8 35.9-34.6 40.3-36.3-36.9 COP kW / kW 3.59 3.41 3.41 3.41 Temp. range of Indoor D.B. 15.0-27.0°C (5.9-81°F) 15.0-27.0°C (5.9-81°F) 15.0-27.0°C (5.9-81°F) Indoor ont D.B. -20.0-15.5°C (4-60°F) -20.0-15.5°C (4-60°F) -20.0-15.5°C (4-60°F) Sound pressure level Model / Quantity So-1300° of outdoor unit capacity 50-130% of outdoor unit capacity 50-130% of outdoor unit capacity Sound pressure level dB <a> 63.5 63.5 64 (measured in anechoic room) dB <a> 84.5 84.5 86 Sound pressure level dB <a> 84.5 86 20.58 (1-18) Brazed 20.58 (1-18) Brazed 20.58 (1-18) Brazed 20.58 (1-18) Brazed 20.58 (1-18)		EER	kW / kW	3.	33	3	.26	3.	28
Heating capacity '2 W/ Order (bc)' Order	Temp. range of	Indoor	W.B.	15.0~24.0°	C (59~75°F)	15.0~24.0°	C (59~75°F)	15.0~24.0°	C (59~75°F)
Nominal) *2 BTU / h 235,400 261,000 276,00 Power input kW 19,22 22,43 23,90 Current input A 324-30,8-29,7 37,8-35,9-34.6 40,3-38,3-56,9 Temp. range of Lourdor Indoor D.B 15,0-27,0°C (59-81°F) 15,0-27,0°C (59-81°F) 15,0-27,0°C (59-81°F) Indoor unit Total capacity 50-130% of outdoor unit ca	cooling	Outdoor	D.B.	-5.0~52.0°C	(23~126°F)	-5.0~52.0°C	C (23~126°F)	-5.0~52.0°C	(23~126°F)
Power input kW 19.22 22.43 23.90 Current input A 32.4-30.8-29.7 37.8-35.9-34.6 40.3-38.3-36.9 COP KW / KW 3.59 3.41 3.41 Temp. range of heating Fildoor D.B. 15.0-27.0°C (59-81*F) 15.0-27.0°C (59-81*F) 15.0-27.0°C (59-81*F) Indoor unit Total capacity 50-130% of outdoor unit capacity 50-130% of outdoor unit capacity 50-130% of outdoor unit capacity Sound pressure level (measured in anecholic room) dB <a> 63.5 63.5 64 Sound power level (measured in anecholic room) dB <a> 84.5 84.5 86 Refrigerant pippi [Liquid pipe mm (in.) 15.88 (5/8) Brazed 15.88 (5/8) Brazed 15.88 (5/8) Brazed Sound power level (measured in anecholic room) dB <a> 84.5 86 86 Set Model mm (in.) 15.88 (5/8) Brazed 15.88 (5/8) Brazed 15.88 (5/8) Brazed 15.88 (5/8) Brazed 28.58 (1-1/8) Brazed FAN Type Xuantity Propeller fan x 1 Propeller fan x 1 Propeler fan x 1 Propeler fan	Heating capacity	*2	kW	69	9.0	7	6.5	81	.5
External finish Corrent input A 33.24-30.8-29.7 37.8-35.9-34.6 40.3-38.3-36.9 Temp, range of heating Indoor D.B. 15.0-27.0°C (59-81°F) 15.0-27.0°C (59-81°F) 15.0-27.0°C (59-81°F) Indoor intidor unit heating Total capacity 50-130% of outdoor unit c	(Nominal) *2		BTU / h	235	,400	261	,000	278	,100
COP kW/kW 3.59 0.00000000000000000000000000000000000		Power input	kW	19	.22	22	.43	23	.90
Temp. range of heating Indoor D.B. 15.0-27.0°C (59-81°F) 15.0-27.0°C (59-81°F) 15.0-27.0°C (59-81°F) Indoor unit heating Total capacity W.B. -20.0-15.5°C (4-60°F) -20.0-15.6°C (4-60°F) -20.0-1 -20.0-1 -20.0-1 <		Current input	Α	32.4-30).8-29.7	37.8-3	5.9-34.6	40.3-38	3.3-36.9
heating Outdoor W.B. -20.0-15.5°C (4-60°F) -20.0-13.5°C (4-60°F) -20.0-15.5°C (4-60°F) -20.0-13.5°C (4-60°F) -20.0-13.5°C (4-60°F) -20.0-15.5°C (4-60°F) -		COP	kW / kW	3.	59	3	.41	3.	41
heating Outdoor W.B. -20.0-15.5°C (-4-60°F) -20.0-15.5°C (-4-60°F) -20.0-15.5°C (-4-60°F) Indoor unit connectable Total capacity 50-130% of outdoor unit capacity	Temp. range of	Indoor							
Connectable Model / Quantity P15-P250/2-47 P15-P250/2-50 P15-P250/2-50 Sound pressure level (measured in anechoic room) dB <a> 63.5 63.5 64 Sound power level (measured in anechoic room) dB <a> 84.5 84.5 66 Refrigerant lpingl Liquid pipe mm (in.) 15.88 (5/8) Brazed 15.88 (5/8) Brazed 15.88 (5/8) Brazed Refrigerant lpingl Liquid pipe mm (in.) 28.58 (1-1/8) Brazed 28.58 (1-1/8) Brazed 28.58 (1-1/8) Brazed Set Model PUHY-P250YKB-A (-BS) PUHY-P300YKB-A (-BS) PUHY-P300YKB-A (-BS) PUHY-P300YKB-A (-BS) PUHY-P300YKB-A (-BS) Model Propeller fan x 1 <td< td=""><td>heating</td><td>Outdoor</td><td>W.B.</td><td>-20.0~15.5°</td><td>C (-4~60°F)</td><td>-20.0~15.5</td><td>°C (-4~60°F)</td><td>-20.0~15.5°</td><td>C (-4~60°F)</td></td<>	heating	Outdoor	W.B.	-20.0~15.5°	C (-4~60°F)	-20.0~15.5	°C (-4~60°F)	-20.0~15.5°	C (-4~60°F)
Sound pressure level (measured in anechoic room) dB <a> 63.5 63.5 64 Sound pore level (measured in anechoic room) dB <a> 84.5 84.5 86 Refrigerant piping liquid pipe (aimmeter Gas pipe (mn) mm (in.) 15.88 (5/8) Brazed 15.88 (5/8) Brazed 15.88 (5/8) Brazed 28.58 (1-1/8) Brazed 28.58 (1-1/8)	Indoor unit	Total capacity		50~130% of outo	door unit capacity	50~130% of out	door unit capacity	50~130% of outo	loor unit capacity
(measured in anechoic room) dB <a> 63.5 63.5 64 Sound power level (measured in anechoic room) dB <a> 84.5 84.5 86 Refrigerant piping (diameter Gas pipe mm (in.) 15.88 (5/8) Brazed 15.88 (5/8) Brazed 28.58 (1-1/8) Brazed 28.58 (1-1	connectable	Model / Quantity		P15~P2	50/2~47	P15~P2	250/2~50	P15~P2	50/2~50
Interaction Image of the reliable for the reliable	Sound pressure le	evel							
(measured in anechoic room) dB 84.5 84.5 86 Refrigerant piping Liquid pipe mm (in.) 15.88 (5/8) Brazed 15.88 (5/8) Brazed 15.88 (5/8) Brazed 28.58 (1-1/8) Brazed 28.5	(measured in ane	neasured in anechoic room) dB <a>		63	3.5	63.5		64	
Interstered in anterolic room/ diameter mm (in.) 15.88 (5/8) Brazed 15.88 (5/8) Brazed 15.88 (5/8) Brazed Refrigerant piping diameter Type x Quantity PUHY-P250YKB-A (-BS) PUHY-P250YKB-A (-BS) PUHY-P300YKB-A (-BS) <td></td> <td colspan="2">Sound power level</td> <td></td> <td></td> <td>0</td> <td>4.5</td> <td></td> <td>0</td>		Sound power level				0	4.5		0
diameter Gas pipe mm (in.) 28.58 (1-1/8) Brazed 28.58 (1-1/8) Brazed 28.58 (1-1/8) Brazed Set Model Popeller fan x1 Propeller fan x1 Vattice Motor ou	(measured in ane	measured in anechoic room) dB <a>		84	1.5	8	4.5	6	6
Set Model PUHY-P350YKB-A (-BS)	Refrigerant piping	Liquid pipe	mm (in.)	15.88 (5/	8) Brazed	15.88 (5/	8) Brazed	15.88 (5/	8) Brazed
Model PUHY-P250YKB-A (-BS) PUHY-P250YKB-A (-BS) PUHY-P350YKB-A (-BS) PUEY PUEY PUEY	diameter	Gas pipe	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 1 Propeller	Set Model							· · ·	
Air flow rate m³/min 175 210 175 210									
L/s 2,917 3,500 2,917 3,500 3	FAN					Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
cfm 6,179 7,415 6,179 7,415 0.92 x 1 0.92 x		Air flow rate	m³/min						
Driving mechanism Inverter-control, Direct-driven by motor *3 External static press. 0 Pa (0 mmH ₂ O) 0 Pa (0									
Motor output kW 0.92 x 1 <									
*3 External static press. 0 Pa (0 mmH ₂ O) 0 Pa (0									
Compressor Type x Quantity Inverter scroll hermetic compressor Inverter scroll hermetic compressor Inverter scroll hermetic compressor Inverter scroll hermetic compressor Starting method Inverter									
Starting method Inverter			ess.						
Motor output kW 6.9 8.1 6.9 10.5 8.1 10.5 Case heater kW -	Compressor								
Case heater kW - <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
External finish Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""> Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""> Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""> Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""> Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""> Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""> Multiple mm 1,710 (1,650 without legs) x 920 x 740 1,710 (1,650 without legs) x 1,220 x 740 1,710 (1,650 without legs) 67-38 (65 without legs) 67-38 (6</munsell></munsell></munsell></munsell></munsell></munsell>					8.1		10.5		10.5
Image: http://www.image: http://wwww.image: http://www.image: http://www.image: http://www.image:		Case heater	kW		-		-		-
Control CMUNSELL 5Y 8/1 or similar> CMUNSELL 5Y 8/1 or similar> CMUNSELL 5Y 8/1 or similar> External dimension HxWxD mm 1,710 (1,650 without 1,710 (1,650 without 1,650 without 1,65	External finish								
External dimension HxWxD mm 1,710 (1,650 without legs) x 920 x 740 1,710 (1,650 without legs) x 1,220 x 740 1,710 (1,650 without legs) (7,710 (1,65									
mm legs) x 920 x 740 legs) x 1,220 x 740 legs) x 920 x 740 legs) x 1,220 x 740 legs) x 1				·					
in. 67-3/8 (65 without legs) 67-3/8 (65 withou	External dimension HxWxD		mm						
in. x 36-1/4 x 29-3/16 x x 48-1/16 x 29-3/16 x x 36-1/4 x 29-3/16 x x 48-1/16 x 29-3/16 x 48-1/16 x 48-1/16 x 29-3/16 x 48-1/16 x 48-1/1									
x 36-1/4 x 29-3/16 x 48-1/16 x 29-3/16 x 36-1/4 x 29-3/16 x 48-1/16 x 29-3/16 x 29-3/1			in.						
Protection High pressure protection High pressure sensor. High pressure switch High pressure sensor. High pressure switch High pressure sensor.		line i							
		High pressure pre	otection						
devices at 4.15 MPa (601 psi) at 4.15 MPa (601 psi) at 4.15 MPa (601 psi)	devices								

Notes:

Refrigerant

Net weight

Heat exchanger

Optional parts

Pipe between unit Liquid pipe and distributor Gas pipe

*1,*2 Nominal conditions

Inverter circuit (COMP./FAN)

kg (lbs)

mm (in.) mm (in.)

199 (439)

Salt-resistant cross fin & copper tube

 9.52 (3/8) Brazed
 12.7 (1/2) Brazed

 22.2 (7/8) Brazed
 22.2 (7/8) Brazed

Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2

Header: CMY-Y104/108/1010-G

Type x original charge

Compressor

Fan motor

	Indoor	Indoor Outdoor		Level difference	
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)	
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)	

251 (554)

*3 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O). *Nominal condition *1,*2 are subject to JIS B8615-1.

*Due to continuing improvement, above specification may be subject to change without notice.

Outdoor Unit

251 (554)



Specifications

Model			PUHY-P700Y	SKB-A (-BS)	PUHY-P750Y	SKB-A (-BS)	PUHY-P800Y	SKB-A (-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	3-phase 4-wire 380-	400-415 V 50/60 Hz
Cooling capacity	*1	kW	. 80).0	85.0		90	.0
(Nominal)	*1	BTU / h	273,000		290	,000	307,	100
	Power input	kW	24	.84	27	.68	29.	.50
	Current input	A	41.9-39	9.8-38.3	46.7-44	1.3-42.7	49.8-47	.3-45.6
	EER	kW / kW	3.	22	3.	07	3.0	05
Temp. range of	Indoor	W.B.	15.0~24.0°	C (59~75°F)	15.0~24.0°0	C (59~75°F)	15.0~24.0°C	C (59~75°F)
cooling	Outdoor	D.B.	-5.0~52.0°C	(23~126°F)	-5.0~52.0°C	(23~126°F)	-5.0~52.0°C	(23~126°F)
Heating capacity	*2	1.4.4	88	3.0	95	5.0	10	0.0
(Nominal)	*2	BTU / h	300	,300	324	,100	341,	200
	Power input	kW	27	.24	29	.68	31.	.54
	Current input	A	45.9-43	3.6-42.1	50.1-47	7.5-45.8	53.2-50	.5-48.7
	COP	kW / kW	3.	23	3.3		3.	17
Temp. range of	Indoor	D.B.	15.0~27.0°0	C (59~81°F)	15.0~27.0°0	C (59~81°F)	15.0~27.0°C	C (59~81°F)
heating	Outdoor	W.B.		-20.0~15.5°C (-4~60°F)		C (-4~60°F)	-20.0~15.5°	C (-4~60°F)
Indoor unit	Total capacity		50~130% of outo	50~130% of outdoor unit capacity		loor unit capacity	50~130% of outd	loor unit capacity
connectable Model / Quantity			P15~P2	50/2~50	P15~P2	50/2~50	P15~P2	50/2~50
Sound pressure le		dB <a>	6	4	65		67	· E
(measured in ane		ub <a>	0	4	00	0.0	07	.5
Sound power leve		dB <a>	0	6	86		87.5	
(measured in ane		ub <a>	C	0	86		67.5	
Refrigerant piping		mm (in.)		4) Brazed	19.05 (3/4		19.05 (3/4	4) Brazed
diameter	Gas pipe	mm (in.)	34.93 (1-3	/8) Brazed	34.93 (1-3	/8) Brazed	34.93 (1-3	/8) Brazed
Set Model								
Model							PUHY-P350YKB-A (-BS)	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2
	Air flow rate	m³/min	210	210	210	210	210	360
		L/s	3,500	3,500	3,500	3,500	3,500	6,000
		cfm	7,415	7,415	7,415	7,415	7,415	12,712
Driving mechanism				ect-driven by motor	Inverter-control, Dir		Inverter-control, Direct-driven by motor	
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 2
*3	B External static pro	ess.	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter

	Starting method		Inverter	Inverter	Inverter	Inverter	inverter	Inverter
	Motor output	kW	10.5	10.5	10.5	10.8	10.5	12.4
	Case heater	kW	-	-	-	-	-	0.045
External finish			Pre-coated galva	nized steel sheets	Pre-coated galva	nized steel sheets	Pre-coated galva	nized steel sheets
			(+powder coati	ng for -BS type)	(+powder coati	ng for -BS type)	(+powder coati	ng for -BS type)
			<munsell 5y<="" td=""><td>/ 8/1 or similar></td><td><munsell 5y<="" td=""><td>8/1 or similar></td><td><munsell 5y<="" td=""><td>' 8/1 or similar></td></munsell></td></munsell></td></munsell>	/ 8/1 or similar>	<munsell 5y<="" td=""><td>8/1 or similar></td><td><munsell 5y<="" td=""><td>' 8/1 or similar></td></munsell></td></munsell>	8/1 or similar>	<munsell 5y<="" td=""><td>' 8/1 or similar></td></munsell>	' 8/1 or similar>
External dimensio	n HxWxD		1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without
		mm	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,750 x 740
		in.	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)
		in.	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 68-15/16 x 29-3/16
Protection	High pressure pre	otection	High pressure sensor	, High pressure switch	High pressure sensor	, High pressure switch	High pressure sensor	, High pressure switch
devices			at 4.15 MPa (601 psi)		at 4.15 MPa (601 psi)		at 4.15 MP	Pa (601 psi)
	Inverter circuit (CO	MP./FAN)	Over-heat protection,	Over-current protection	Over-heat protection,	Over-current protection	Over-heat protection,	Over-current protection
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
	Fan motor		Over-current protection	Over-current protection	Over-current protection	Over-current protection	Over-current protection	Over-current protection
Refrigerant	Type x original ch	narge	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.8 kg (27 lbs)
Net weight		kg (lbs)	251 (554)	251 (554)	251 (554)	251 (554)	251 (554)	304 (671)
Heat exchanger			Salt-resistant cros	s fin & copper tube	Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Pipe between unit	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed
and distributor	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Optional parts			Outdoor Twinning	kit: CMY-Y200VBK2	Outdoor Twinning	kit: CMY-Y200VBK2	Outdoor Twinning	kit: CMY-Y200VBK2
			Joint: CMY-Y	102SS/LS-G2,	Joint: CMY-Y	102SS/LS-G2,	Joint: CMY-Y	102SS/LS-G2,
			CMY-Y2	202S/302S-G2	CMY-Y2	202S/302S-G2	CMY-Y2	202S/302S-G2
			Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-G

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)





► Specifications

Model			PUHY-P850)	(SKB-A (-BS)	PUHY-P900)	(SKB-A (-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	*1	kW	96	6.0	10	1.0		
(Nominal) *1 BTU / h		BTU / h	327	,600	344,600			
	Power input	kW	33	.10	35	35.06		
	Current input	A	55.8-53	3.0-51.1	59.1-56	59.1-56.2-54.1		
	EER	kW / kW	2.	90	2.	88		
Temp. range of	Indoor	W.B.	15.0~24.0°	15.0~24.0°C (59~75°F)		C (59~75°F)		
cooling	Outdoor	D.B.	-5.0~52.0°C	(23~126°F)	-5.0~52.0°C	(23~126°F)		
Heating capacity	*2	kW	10	8.0	11	3.0		
(Nominal)	*2	BTU / h	368	,500	385	,600		
Power input		kW	34	.28	36.21			
	Current input	A	57.8-54	1.9-52.9	61.1-58.0-55.9			
	COP	kW / kW	3.	15	3.	12		
Temp. range of	Indoor	D.B.	15.0~27.0°	C (59~81°F)	15.0~27.0°	C (59~81°F)		
neating	Outdoor	W.B.		°C (-4~60°F)	-20.0~15.5°C (-4~60°F)			
ndoor unit	Total capacity		50~130% of out	door unit capacity	50~130% of outdoor unit capacity			
connectable	Model / Quantity		P15~P2	50/2~50	P15~P250/2~50			
Sound pressure le measured in ane		dB <a>	68		69			
Sound power level (measured in anechoic room) dB <a>		dB <a>	87	7.5	8	8		
Refrigerant piping	Liquid pipe	mm (in.)	19.05 (3/	4) Brazed	19.05 (3/	4) Brazed		
diameter Gas pipe mm (in.)		41.28 (1-5	/8) Brazed	41.28 (1-5/8) Brazed				
Set Model								
Model			PUHY-P400YKB-A (-BS)	PUHY-P450YKB-A (-BS)	PUHY-P450YKB-A (-BS)	PUHY-P450YKB-A (-BS)		
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2		
	Air flow rate	m³/min	210	360	360	360		
		L/s	3.500	6.000	6.000	6.000		

FAN			Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	
	Air flow rate	m³/min	210	360	360	360	
		L/s	3,500	6,000	6,000	6,000	
		cfm	7,415	12,712	12,712	12,712	
	Driving mechanis	sm	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	rect-driven by motor	
	Motor output	kW	0.92 x 1	0.92 x 2	0.92 x 2	0.92 x 2	
*3	External static p	ress.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	10.8	12.4	12.4	12.4	
	Case heater	kW	-	0.045	0.045	0.045	
External finish			(+powder coati	nized steel sheets ng for -BS type)	Pre-coated galvanized steel sheets (+powder coating for -BS type)		
			<munsell 5y<="" td=""><td>8/1 or similar></td><td colspan="3"><munsell 1="" 5y="" 8="" or="" similar=""></munsell></td></munsell>	8/1 or similar>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>		
External dimensio	n HxWxD	mm	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,750 x 740	1,710 (1,650 without legs) x 1,750 x 740	1,710 (1,650 without legs) x 1,750 x 740	
		in.	67-3/8 (65 without legs) x 48-1/16 x 29-3/16	67-3/8 (65 without legs) x 68-15/16 x 29-3/16	67-3/8 (65 without legs) x 68-15/16 x 29-3/16	67-3/8 (65 without legs) x 68-15/16 x 29-3/16	
Protection	High pressure pr	otection	High pressure sensor, High press	sure switch at 4.15 MPa (601 psi)	High pressure sensor, High press	sure switch at 4.15 MPa (601 psi)	
devices	Inverter circuit (CC	DMP./FAN)	Over-heat protection, 0	Over-current protection	Over-heat protection, 0	Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	
	Fan motor		Over-current protection	Over-current protection	Over-current protection	Over-current protection	
Refrigerant	Type x original c	harge	R410A x 11.5 kg (26 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	
Net weight	Net weight kg (lbs)		251 (554)	304 (671)	304 (671)	304 (671)	
Heat exchanger			Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube	
Pipe between unit	unit Liquid pipe mm (in.)		15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	
and distributor	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	
Optional parts		Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G		Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G			

Notes:

*1,*2 Nominal conditions

.,					
	Indoor	Outdoor	Pipe length	Level difference	
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m (24-9/16ft.)	0m (0ft.)	
	(81°F DB/66°F WB)	(95°F DB/75°F WB)	7.511 (24-9/1011.)		
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)	

¹ Szternal static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).
 *Nominal condition *1,*2 are subject to JIS B8615-1.
 *Due to continuing improvement, above specification may be subject to change without notice.

Outdoor Unit



► Specifications

Model			PI	UHY-P950YSKB-A (-B	S)	PL	IHY-P1000YSKB-A (-E	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	*1	kW		108.0			113.0	
(Nominal)	*1	BTU / h		368,500			385,600	
	Power input	kW	33.85			35.20		
Current input A		A		57.1-54.2-52.3			59.4-56.4-54.4	
	EER	kW / kW		3.19		3.21		
Temp. range of	Indoor	W.B.		15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)
cooling	Outdoor	D.B.		5.0~52.0°C (23~126°F			5.0~52.0°C (23~126°F	
Heating capacity	*2	kW.		119.5	/		127.0	/
(Nominal)	*2			407,700			433,300	
(Norminal)	Power input	kW		34.63			36,70	
	Current input	A		58.4-55.5-53.5			61.9-58.8-56.7	
	COP	kW / kW		3.45			3.46	
Temp. range of	Indoor	D.B.		15.0~27.0°C (59~81°F)		15.0~27.0°C (59~81°F	
heating	Outdoor	W.B.		20.0~15.5°C (-4~60°F			-20.0~15.5°C (-4~60°F	
Indoor unit	Total capacity	VV.D.		30% of outdoor unit ca			30% of outdoor unit ca	
	Model / Quantity		50~1	P15~P250/2~50	pacity	50~1	P15~P250/2~50	pacity
connectable Sound pressure lev				F13~P230/2~50			F13~P230/2~50	
(measured in anec		dB <a>		66.5			66.5	
Sound power level (measured in anec		dB <a>		87			88	
Refrigerant piping	Liquid pipe	mm (in.)		19.05 (3/4) Brazed			19.05 (3/4) Brazed	
diameter	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed 41.28 (1-5/8) Brazed					
Set Model								
Model			PUHY-P250YKB-A (-BS)	PUHY-P300YKB-A (-BS)	PUHY-P400YKB-A (-BS)	PUHY-P300YKB-A (-BS)	PUHY-P300YKB-A (-BS)	PUHY-P400YKB-A (-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m³/min	175	210	210	210	210	210
		L/s	2,917	3,500	3,500	3,500	3,500	3,500
		cfm	6,179	7,415	7,415	7,415	7,415	7,415
	Driving mechanis	-		-control, Direct-driven b			-control, Direct-driven b	
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
*0			0.92 x 1 0 Pa (0 mmH ₂ O)			0.92 x 1 0 Pa (0 mmH ₂ O)	0.92 X 1 0 Pa (0 mmH ₂ O)	0.92 X 1 0 Pa (0 mmH ₂ O)
	External static pr	ess.	(0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	()	Inverter scroll hermetic compressor	
Compressor	Type x Quantity			er scroll hermetic comp				
.	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
.	Motor output	kW	6.9	8.1	10.8	8.1	8.1	10.8
	Case heater	kW		-	-	-		-
External finish				bated galvanized steel			ated galvanized steel	
				owder coating for -BS t			owder coating for -BS	
				UNSELL 5Y 8/1 or simi			JNSELL 5Y 8/1 or simi	
External dimensior	n HxWxD	mm	1,710 (1,650 without legs) x 920 x 740	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,220 x 740
		in	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)
		in.	x 36-1/4 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16
Protection	High pressure pre	otection	High pressure sensor		at 4.15 MPa (601 psi)	High pressure sensor		at 4.15 MPa (601 psi)
devices	Inverter circuit (CO			protection, Over-curren			protection, Over-curren	
Compressor		. ,	Over-heat protection	Over-heat protection			Over-heat protection	
	Fan motor		Over-current protection	Over-current protection	Over-current protection		Over-current protection	
Refrigerant Type x original charge		narge	R410A x 8.0 kg (18 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)		R410A x 11.5 kg (26 lbs)	
Net weight kg (lbs)		199 (439)	251 (554)	251 (554)	251 (554)	251 (554)	251 (554)	
Heat exchanger				sistant cross fin & copp			sistant cross fin & copp	
Pipe between unit	Liquid pipe	mm (in.)	9.52 (3/8) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed
and distributor	Gas pipe	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	22.2 (7/8) Brazed		28.58 (1-1/8) Brazed
Optional parts	Ous hihe	()		Twinning kit: CMY-Y3			Twinning kit: CMY-Y3	
Optional parts				102SS/LS-G2, CMY-Y			102SS/LS-G2, CMY-Y	
				der: CMY-Y104/108/10			der: CMY-Y104/108/10	
L			Tiea	aon. Olvin-110 4 /100/10		Tieat	aon. Own-110-7/100/10	

Notes:

*1,*2 Nominal conditions

., =				
	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m (24-9/16ft.)	0m (0ft.)
U U	(81°F DB/66°F WB)	(95°F DB/75°F WB)		. ,
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 External static pressure option is available (30Pa, $60Pa / 3.1mmH_2O$, $6.1mmH_2O$). *Nominal condition *1,*2 are subject to JIS B8615-1.





Specifications

Model			PL	IHY-P1050YSKB-A (-E	BS)	PL	JHY-P1100YSKB-A (-E	3S)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz				4-wire 380-400-415 V	
Cooling capacity	*1	kW	118.0		o pilado	124.0	00/00 112	
(Nominal)		BTU / h		402,600			423,100	
(Norminal)	Power input	kW	37.34			39.74		
	Current input	A	63.0-59.8-57.7			67.0-63.7-61.4		
EER kW/kW			3.16			3.12		
Temp. range of	Indoor	W.B.		15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F	7
cooling	Outdoor	VV.В. D.B.	-5.0~52.0°C (23~126°F)					
Heating capacity	*2		132.0			-5.0~52.0°C (23~126°F) 140.0		
(Nominal)		BTU / h	450.400				477,700	
(Nominal)		kW						
	Power input			39.63			43.61	
	Current input	A		66.9-63.5-61.2			73.6-69.9-67.4	
	COP	kW/kW		3.33	、		3.21	
Temp. range of	Indoor	D.B.		15.0~27.0°C (59~81°F			15.0~27.0°C (59~81°F	
heating	Outdoor	W.B.		20.0~15.5°C (-4~60°F			-20.0~15.5°C (-4~60°F	
Indoor unit	Total capacity		50~13	30% of outdoor unit ca	pacity	50~1	30% of outdoor unit ca	pacity
connectable	Model / Quantity			P15~P250/2~50			P15~P250/2~50	
Sound pressure I		dB <a>		66.5			66.5	
(measured in ane		0.5 4.6		00.0			00.0	
Sound power leve		dB <a>		88			88	
(measured in ane								
Refrigerant piping	Liquid pipe	mm (in.)		19.05 (3/4) Brazed		19.05 (3/4) Brazed		
diameter	Gas pipe	mm (in.)		41.28 (1-5/8) Brazed				
Set Model								
Model			PUHY-P300YKB-A (-BS)	PUHY-P350YKB-A (-BS)	PUHY-P400YKB-A (-BS)	PUHY-P350YKB-A (-BS)	PUHY-P350YKB-A (-BS)	PUHY-P400YKB-A (-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m ³ /min	210	210	210	210	210	210
		L/s	3,500	3,500	3,500	3,500	3,500	3,500
		cfm	7,415	7,415	7,415	7,415	7,415	7,415
	Driving mechanis	sm	Inverter	control, Direct-driven l	by motor	Inverter	-control, Direct-driven	by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
*	B External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity			er scroll hermetic comp			er scroll hermetic comp	
Compresser	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	8.1	10.5	10.8	10.5	10.5	10.8
	Case heater	kW	-	10.0	10.0	10.0	10.0	10.0
External finish	Case meater	IX V V		ated galvanized steel	shoots	Pro-cr	pated galvanized steel	shoots
External million				owder coating for -BS			owder coating for -BS t	
				JNSELL 5Y 8/1 or simi			UNSELL 5Y 8/1 or sim	
External dimension				1.710 (1.650 without			1.710 (1.650 without	
		mm	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740
			67-3/8 (65 without legs)				67-3/8 (65 without legs)	
		in.	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16
Protection	High pressure pr	otoction		High pressure switch			High pressure switch	
				protection, Over-currer			protection, Over-currer	
devices Inverter circuit (COMP./F/ Compressor Fan motor		////F//N)	Over-heat protection	Over-heat protection			Over-heat protection	
				Over-current protection			Over-current protection	
Defrigerent		borac				R410A x 11.5 kg (26 lbs)		
Refrigerant Type x original charge								
Net weight		kg (lbs)	251 (554)	251 (554)	251 (554)	251 (554)	251 (554)	251 (554)
Heat exchanger	(I tourist a to a			sistant cross fin & copp			sistant cross fin & copp	
Pipe between uni		mm (in.)	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed
and distributor	Gas pipe	mm (in.)		28.58 (1-1/8) Brazed			28.58 (1-1/8) Brazed	
Optional parts				Twinning kit: CMY-Y3			r Twinning kit: CMY-Y3	
				102SS/LS-G2, CMY-Y			102SS/LS-G2, CMY-Y	
			Head	der: CMY-Y104/108/10	10-G	Hea	der: CMY-Y104/108/10	110-G

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

► Specifications

Model			PL	JHY-P1150YSKB-A (-B	BS)	PL	JHY-P1200YSKB-A (-E	3S)
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	*1	kW		130.0			136.0	
(Nominal)	*1	BTU / h		443,600			464,000	
	Power input	kW		41.93			45.18	
	Current input	A		70.7-67.2-64.8			76.2-72.4-69.8	
	EER	kW / kW		3.10		3.01		
Temp. range of	Indoor	W.B.		15.0~24.0°C (59~75°F))		15.0~24.0°C (59~75°F	·)
cooling	Outdoor	D.B.	-	5.0~52.0°C (23~126°F		-	5.0~52.0°C (23~126°F	-)
Heating capacity	*2	kW		145.0	,		150.0	,
(Nominal)	*2	BTU / h		494,700			511,800	
	Power input	kW		45.45			47.31	
	Current input	A		76.7-72.8-70.2			79.8-75.8-73.1	
	COP	kW / kW		3.19			3.17	
Temp. range of	Indoor	D.B.		15.0~27.0°C (59~81°F))		15.0~27.0°C (59~81°F	·)
heating	Outdoor	W.B.		20.0~15.5°C (-4~60°F)		-20.0~15.5°C (-4~60°F	5)
Indoor unit	Total capacity		50~1	30% of outdoor unit car	pacity	50~1	30% of outdoor unit ca	pacity
connectable	Model / Quantity			P15~P250/2~50			P15~P250/2~50	
Sound pressure lev	vel	dB <a>		68.5			69	
(measured in anec	hoic room)	ub <a>		C.00			09	
Sound power level		dB <a>		88.5			88.5	
(measured in anec	hoic room)	ив <a>		6.66			00.0	
Refrigerant piping	Liquid pipe	mm (in.)		19.05 (3/4) Brazed			19.05 (3/4) Brazed	
diameter	Gas pipe	mm (in.)		41.28 (1-5/8) Brazed		41.28 (1-5/8) Brazed		
Set Model								
Model			PUHY-P350YKB-A (-BS)	PUHY-P350YKB-A (-BS)		PUHY-P350YKB-A (-BS)		
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 2	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2
	Air flow rate	m³/min	210	210	360	210	210	360
		L/s	3,500	3,500	6,000	3,500	3,500	6,000
		cfm	7,415	7,415	12,712	7,415	7,415	12,712
	Driving mechanis			-control, Direct-driven b			-control, Direct-driven	
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 2	0.92 x 1	0.92 x 1	0.92 x 2
*3	External static pr	ess.	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)				
Compressor	Type x Quantity		Inverte	er scroll hermetic comp	ressor	Inverte	er scroll hermetic comp	pressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	10.5	10.5	12.4	10.5	10.8	12.4
	Case heater	kW	-	-	0.045	-	-	0.045
External finish				bated galvanized steel			bated galvanized steel	
				owder coating for -BS t			owder coating for -BS	
				UNSELL 5Y 8/1 or simi			UNSELL 5Y 8/1 or sim	
External dimensior	n HxWxD	mm	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,750 x 740	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,750 x 740
				67-3/8 (65 without legs)				
		in.	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 68-15/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 68-15/16 x 29-3/16
Protection	High pressure pr	otection		High pressure switch			, High pressure switch	
devices	Inverter circuit (CO			protection, Over-curren			protection, Over-currer	
4011000	Compressor			Over-heat protection			Over-heat protection	
	Fan motor		Over-current protection					Over-current protection
Refrigerant	Type x original ch	narge	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)		R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	
Net weight		kg (lbs)	251 (554)	251 (554)	304 (671)	251 (554)	251 (554)	304 (671)
Heat exchanger				sistant cross fin & copp			sistant cross fin & copp	
Pipe between unit	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed
	Gas pipe			28.58 (1-1/8) Brazed				28.58 (1-1/8) Brazed
Optional parts		, .,		Twinning kit: CMY-Y3			r Twinning kit: CMY-Y3	
sonar parto				102SS/LS-G2. CMY-Y			102SS/LS-G2. CMY-Y	
				der: CMY-Y104/108/10			der: CMY-Y104/108/10	
L								

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m (24-9/16ft.)	0m (0ft.)
Cooling	(81°F DB/66°F WB)	(95°F DB/75°F WB)	7.500 (24-9/100.)	011 (01.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O). *Nominal condition *1,*2 are subject to JIS B8615-1.





► Specifications

Model			PU	IHY-P1250YSKB-A (-E	3S)	PL	JHY-P1300YSKB-A (-I	3S)
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	*1	kW	•	140.0			146.0	
(Nominal)	*1	BTU / h		477,700			498,200	
. ,	Power input	kW	46.82			50.51		
	Current input	A		79.0-75.0-72.3			85.2-81.0-78.0	
	EER	kW / kW		2.99			2.89	
Temp. range of	Indoor	W.B.		15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F	.)
cooling	Outdoor	D.B.		5.0~52.0°C (23~126°F			-5.0~52.0°C (23~126°F	
Heating capacity	*2			156.5	/		163.0	/
(Nominal)	*2			534.000			556.200	
(rtorninal)	Power input	kW		49.52			51.91	
	Current input	A		83.5-79.4-76.5			87.6-83.2-80.2	
	COP	kW / kW		3.16			3.14	
Temp. range of	Indoor	D.B.		15.0~27.0°C (59~81°F)		15.0~27.0°C (59~81°F	.)
heating	Outdoor	W.B.		20.0~15.5°C (-4~60°F			-20.0~15.5°C (-4~60°F	
Indoor unit	Total capacity	VV.D.		50~130% of outdoor unit capacity			30% of outdoor unit ca	
connectable	Model / Quantity		50~1	P15~P250/2~50	pacity	50~1	P15~P250/2~50	pacity
Sound pressure le		1		F10~F200/2~00			F 10~F200/2~00	
(measured in ane		dB <a>		70			70	
Sound power leve (measured in ane		dB <a>		89.5			89.5	
Refrigerant piping		mm (in.)		19.05 (3/4) Brazed			19.05 (3/4) Brazed	
diameter				41.28 (1-5/8) Brazed		41.28 (1-5/8) Brazed		
Set Model				41.20 (1 0/0) Blu20u			+1.20 (1 0/0) Did200	
Model			PUHY-P350YKB-A (-BS)	PUHY-P450YKB-A (-BS)	PUHY-P450YKB-A (-BS)	PUHY-P400YKB-A (-BS)	PUHY-P450YKB-A (-BS)	PUHY-P450YKB-A (-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 1	Propeller fan x 2	Propeller fan x 2
	Air flow rate	m³/min	210	360	360	210	360	360
	All now rate	L/s	3,500	6,000	6.000	3,500	6,000	6,000
		cfm	7,415	12,712	12,712	7,415	12,712	12,712
	Driving mechanis	-		-control, Direct-driven b			-control, Direct-driven	
	Motor output	kW	0.92 x 1	0.92 x 2	0.92 x 2	0.92 x 1	0.92 x 2	0.92 x 2
	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity			er scroll hermetic comp			er scroll hermetic comp	
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	10.5	12.4	12.4	10.8	12.4	12.4
	Case heater	kW	-	0.045	0.045	-	0.045	0.045
External finish			(+pd	pated galvanized steel a pwder coating for -BS t JNSELL 5Y 8/1 or simi	type)	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>		
External dimensio	n HxWxD			1,710 (1,650 without			1,710 (1,650 without	
		mm	legs) x 1,220 x 740	legs) x 1,750 x 740	legs) x 1,750 x 740	legs) x 1,220 x 740	legs) x 1,750 x 740	legs) x 1,750 x 740
		in.				67-3/8 (65 without legs)		
			x 48-1/16 x 29-3/16	x 68-15/16 x 29-3/16	x 68-15/16 x 29-3/16	x 48-1/16 x 29-3/16	x 68-15/16 x 29-3/16	x 68-15/16 x 29-3/16
Protection	High pressure pr			, High pressure switch			, High pressure switch	
devices	Inverter circuit (CO	MP./FAN)	Over-heat p	protection, Over-curren			protection, Over-currer	
Compressor			Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection		Over-heat protection
	Fan motor		Over-current protection	Over-current protection	Over-current protection	Over-current protection	Over-current protection	Over-current protection
Refrigerant	Type x original cl	narge	R410A x 11.5 kg (26 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)
Net weight		kg (lbs)	251 (554)	304 (671)	304 (671)	251 (554)	304 (671)	304 (671)
Heat exchanger			Salt-res	sistant cross fin & copp	per tube	Salt-re	sistant cross fin & copp	per tube
Pipe between unit	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed
and distributor	Gas pipe	mm (in.)		28.58 (1-1/8) Brazed			28.58 (1-1/8) Brazed	
Optional parts			Outdoor Joint: CMY-Y	Twinning kit: CMY-Y3 102SS/LS-G2, CMY-Y der: CMY-Y104/108/10	00VBK3 202/302S-G2	Outdoo Joint: CMY-Y	r Twinning kit: CMY-Y3 '102SS/LS-G2, CMY-Y der: CMY-Y104/108/10	00VBK3 202/302S-G2

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O). *Nominal condition *1,*2 are subject to JIS B8615-1.

*Due to continuing improvement, above specification may be subject to change without notice.

Outdoor Unit



Specifications

Model				PUHY-P1350YSKB-A (-BS)			
Power source				3-phase 4-wire 380-400-415 V 50/60 Hz			
Cooling capacity	*1	kW		150.0			
(Nominal)	*1	BTU / h		511,800			
	Power input	kW	52.08				
	Current input	A					
	EER	kW / kW		2.88			
Temp. range of	Indoor	W.B.		15.0~24.0°C (59~75°F)			
cooling	Outdoor	D.B.		-5.0~52.0°C (23~126°F)			
Heating capacity	*2	kW		168.0			
(Nominal)	*2	BTU / h		573,200			
	Power input	kW		53.84			
	Current input	A					
	COP	kW / kW		3.12			
Temp. range of	Indoor	D.B.		15.0~27.0°C (59~81°F)			
heating	Outdoor	W.B.		-20.0~15.5°C (-4~60°F)			
Indoor unit	Total capacity			50~130% of outdoor unit capacity			
connectable	Model / Quantity			P15~P250/2~50			
Sound pressure le (measured in aneo		dB <a>		71			
Sound power leve (measured in ane		dB <a>		90			
Refrigerant piping		mm (in.)		19.05 (3/4) Brazed			
diameter	Gas pipe	mm (in.)		41.28 (1-5/8) Brazed			
Set Model	odo pipo			11120 (1 0/0) Blazoa			
Model			PUHY-P450YKB-A (-BS)	PUHY-P450YKB-A (-BS)	PUHY-P450YKB-A (-BS)		
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2		
	Air flow rate	m³/min	360	360	360		
		L/s	6,000	6,000	6,000		
		cfm	12,712	12,712	12,712		
	Driving mechanis	sm	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor		
	Motor output	kW	0.92 x 2	0.92 x 2	0.92 x 2		
*3	External static pr	ess.	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)		
Compressor	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor		
	Starting method		Inverter	Inverter	Inverter		
	Motor output	kW	12.4	12.4	12.4		
	Case heater	kW	0.045	0.045	0.045		
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>		
External dimension	n HxWxD	mm	1,710 (1,650 without legs) x 1,750 x 740	1,710 (1,650 without legs) x 1,750 x 740	1,710 (1,650 without legs) x 1,750 x 740		
Protection	High pressure pr	in. otection	67-3/8 (65 without legs) x 68-15/16 x 29-3/16 High pressure sensor, High pressure switch	67-3/8 (65 without legs) x 68-15/16 x 29-3/16 High pressure sensor, High pressure switch	67-3/8 (65 without legs) x 68-15/16 x 29-3/16 High pressure sensor, High pressure switch		
devices			at 4.15 MPa (601 psi) Over-heat protection, Over-current protection	at 4.15 MPa (601 psi) Over-heat protection, Over-current protection	at 4.15 MPa (601 psi) Over-heat protection, Over-current protection		
	Inverter circuit (CO Compressor	/wir./FAIN)	Over-heat protection	Over-heat protection	Over-heat protection		
	Fan motor		Over-current protection	Over-current protection	Over-current protection		
Refrigerant	Type x original ch	harde	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)		
Net weight	Type x original ci	kg (lbs)	304 (671)	304 (671)	304 (671)		
Heat exchanger		ing (ing)	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube		
Pipe between unit	Liquid nine	mm (in.)	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed		
and distributor	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed		
Optional parts	םמא אואב	(iii.)		Outdoor Twinning kit: CMY-Y300VBK3 bint: CMY-Y102SS/LS-G2, CMY-Y202/302S-C Header: CMY-Y104/108/1010-G			

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m (24-9/16ft.)	0m (0ft.)
Cooling	(81°F DB/66°F WB)	(95°F DB/75°F WB)	7.5111 (24-9/1011.)	oni (oit.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)







Model			PUHY-EP200YLM-A (-BS)	PUHY-EP250YLM-A (-BS)	PUHY-EP300YLM-A (-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	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	22.4	28.0	33.5
(Nominal)	*1	BTU / h	76,400	95,500	114,300
	Power input	kW	5.19	6.89	8.56
	Current input	A	8.7-8.3-8.0	11.6-11.0-10.6	14.4-13.7-13.2
	EER	kW / kW	4.31	4.06	3.91
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling	Outdoor	D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)
Heating capacity	*2	kW	25.0	31.5	37.5
(Nominal)	*2	BTU / h	85,300	107,500	128,000
·	Power input	kW	5.73	7.68	9.16
	Current input	Α	9.6-9.1-8.8	12.9-12.3-11.8	15.4-14.6-14.1
	COP	kW / kW	4.36	4.10	4.09
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
heating	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit	Total capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
connectable	Model / Quantity		P15~P250/1~17	P15~P250/1~21	P15~P250/1~26
Sound pressure le (measured in ane		dB <a>	57	60	61
Sound power leve (measured in ane	1	dB <a>	79.5	80	82
X	Refrigerant piping Liquid pipe mm (in		9.52 (3/8) Brazed	9.52 (3/8) Brazed (12.7 (1/2) Brazed, farthest length >= 90 m)	9.52 (3/8) Brazed (12.7 (1/2) Brazed, farthest length >= 40 m)
diamotor	Gas pipe	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m ³ /min	175	175	200
		L/s	2.917	2.917	3,333
		cfm	6,179	6,179	7,062
	Driving mechanis		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1
*3	External static pro	ess	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	5.6	6.9	8.1
	Case heater	kW	_	_	_
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>
External dimensio	n HxWxD	mm in.	1,710 (1,650 without legs) x 920 x 740 67-3/8 (65 without legs) x 36-1/4 x 29-3/16	1,710 (1,650 without legs) x 920 x 740 67-3/8 (65 without legs) x 36-1/4 x 29-3/16	1,710 (1,650 without legs) x 1,220 x 740 67-3/8 (65 without legs) x 48-1/16 x 29-3/16
Protection devices	ction 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)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
40.1000	Inverter circuit (CO	MP./FAN)	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection
	Fan motor		Over-current protection	Over-current protection	Over-current protection
Refrigerant	Type x original ch	arde	R410A x 7.5 kg (17 lbs)	R410A x 7.5 kg (17 lbs)	R410A x 10.3 kg (23 lbs)
Net weight	1.7Po X original of	kg (lbs)	208 (459)	208 (459)	252 (556)
Heat exchanger		g (103)	Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube
Optional parts			Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G	Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G	Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G

Notes:

*1,*2 Nominal conditions

.,				
	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
	(1 111)			
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

► Specifications



Model			PUHY-EP350YLM-A (-BS)	PUHY-EP400YLM-A (-BS)	PUHY-EP450YLM-A (-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	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	40.0	45.0	50.0
(Nominal)	*1	BTU / h	136.500	153.500	170.600
	Power input	kW	11.69	12.26	14.79
	Current input	A	19.7-18.7-18.0	20.6-19.6-18.9	24.9-23.7-22.8
	EER	kW / kW	3.42	3.67	3.38
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling	Outdoor	D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)
Heating capacity	*2		45.0	50.0	56.0
(Nominal)		BTU / h	153,500	170.600	191.100
(Normal)	Power input	kW	12.53	13.15	16.09
	Current input	A	21.1-20.0-19.3	22.1-21.0-20.3	27.1-25.8-24.8
	COP	kW / kW	3.59	3.80	3.48
T					
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
heating	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit	Total capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
connectable	Model / Quantity	1	P15~P250/1~30	P15~P250/1~34	P15~P250/1~39
Sound pressure le (measured in ane	choic room)	dB <a>	61	62.5	63
Sound power leve (measured in ane		dB <a>	82.5	82.5	83
Refrigerant piping	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed
diameter	Gas pipe	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 1	Propeller fan x 2	Propeller fan x 2
	Air flow rate	m³/min	200	320	370
		L/s	3,333	5,333	6,167
		cfm	7.062	11.299	13.065
	Driving mechanis	sm	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 2	0.92 x 2
*3	External static pr	ess	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity	000.	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
Compressor	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	10.5	10.9	12.4
	Case heater	kW		-	12.7
External finish	Ouse neutor		Pre-coated galvanized steel sheets	Pre-coated galvanized steel sheets	Pre-coated galvanized steel sheets
External million			(+powder coating for -BS type)	(+powder coating for -BS type)	(+powder coating for -BS type)
			<pre><munsell 1="" 5y="" 8="" or="" similar=""></munsell></pre>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>
External dimensio	n HxWxD	mm	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,750 x 740	1,710 (1,650 without legs) x 1,750 x 740
		in.	67-3/8 (65 without legs) x 48-1/16 x 29-3/16		
Protection			High pressure sensor, High pressure switch	High pressure sensor, High pressure switch	
devices	High pressure pre	otection	at 4.15 MPa (601 psi)	at 4.15 MPa (601 psi)	at 4.15 MPa (601 psi)
	Inverter circuit (CO	MP./FAN)	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection
	Fan motor		Over-current protection	Over-current protection	Over-current protection
Refrigerant	Type x original ch	harde	R410A x 10.3 kg (23 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)
Net weight	1,90 x original or	kg (lbs)	252 (556)	318 (702)	318 (702)
Heat exchanger		ing (ib3)	Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube
near exchangel				Joint: CMY-Y102SS/LS-G2.CMY-Y202S-G2	
Optional parts			Header: CMY-Y102SS/LS-G2,CMY-Y202S-G2 Header: CMY-Y104/108/1010-G	Header: CMY-Y102SS/LS-G2,CMY-Y202S-G2 Header: CMY-Y104/108/1010-G	Header: CMY-Y102SS/LS-G2,CMY-Y202S-G2 Header: CMY-Y104/108/1010-G

Notes:

*1,*2 Nominal conditions

	Indoor	Indoor Outdoor		Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)





Over-heat protection Over-heat protection Over-heat protection

Over-current protection

Salt-resistant cross fin & aluminium tube

12.7 (1/2) Brazed 12.7 (1/2) Brazed 28.58 (1-1/8) Brazed 28.58 (1-1/8) Brazed

Outdoor Twinning kit: CMY-Y100VBK3

Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2

Header: CMY-Y104/108/1010-G

252 (556)

252 (556)

Specifications

Model			PUHY-EP500	YSLM-A (-BS)	PUHY-EP550	YSLM-A (-BS)	PUHY-EP600	YSLM-A (-BS)
Power source				400-415 V 50/60 Hz		-400-415 V 50/60 Hz		400-415 V 50/60 Hz
Cooling capacity	*1	kW		5.0		3.0		9.0
(Nominal)	*1	BTU / h	191	,100	215	6,000	235	.400
	Power input	kW		.50		.62		.59
	Current input	Α		3.2-22.4	28.0-2	6.6-25.6	31.3-29	9.8-28.7
	EER	kW / kW		86		.79	3.	
Temp. range of	Indoor	W.B.	15.0~24.0°			C (59~75°F)	15.0~24.0°	
cooling	Outdoor	D.B.		; (23~126°F)		C (23~126°F)	-5.0~52.0°C	
Heating capacity	*2			3.0		9.0		0.5
(Nominal)		BTU / h		,000		5,400	261	
()	Power input	kW		.15		7.73		.66
	Current input	A		5.9-24.9		3.4-27.4		.5-30.3
	COP	kW / kW		90		89	3.	
Temp. range of	Indoor	D.B.		C (59~81°F)		C (59~81°F)	15.0~27.0°	
heating	Outdoor	W.B.		² C (-4~60°F)		°C (-4~60°F)	-20.0~15.5°	
Indoor unit	Total capacity	11.5.		door unit capacity		door unit capacity		door unit capacity
connectable	Model / Quantity			50/1~43		250/2~47		50/2~50
Sound pressure le			-					
(measured in ane		dB <a>	6	3	6	3.5	6	4
Sound power leve								
(measured in ane		dB <a>	8	3	8	4.5	8	5
Refrigerant piping		mm (in.)	15 88 (5/	8) Brazed	15 88 (5	8) Brazed	15.88 (5/	8) Brazed
diameter	Gas pipe	mm (in.)		/8) Brazed		/8) Brazed	28.58 (1-1	
Set Model				, , _ , _ , _ , _ , _ ,				
Model			PUHY-EP250YLM-A (-BS)	PUHY-EP250YLM-A (-BS)	PUHY-EP250YLM-A (-BS	PUHY-EP300YLM-A (-BS)	PUHY-EP300YLM-A (-BS)	PUHY-EP300YLM-A (-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1				
	Air flow rate	m³/min	175	175	175	200	200	200
		L/s	2,917	2,917	2,917	3,333	3,333	3,333
		cfm	6,179	6,179	6,179	7,062	7,062	7,062
	Driving mechanis	sm	Inverter-control, Di	rect-driven by motor	Inverter-control, Di	rect-driven by motor	Inverter-control, Dir	ect-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1				
*3	B External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)				
	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll he	rmetic compressor	Inverter scroll her	metic compressor
Commencer	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
Compressor	Motor output	kW	6.9	6.9	6.9	8.1	8.1	8.1
	Case heater	kW	-	-	-	-	-	-
External finish			Pre-coated galva	nized steel sheets	Pre-coated galva	nized steel sheets	Pre-coated galva	nized steel sheets
				ng for -BS type)		ng for -BS type)	(+powder coati	
				' 8/1 or similar>		/ 8/1 or similar>	<munsell 5y<="" td=""><td></td></munsell>	
External dimension	on HxWxD	mm				1,710 (1,650 without		1,710 (1,650 without
			legs) x 920 x 740	legs) x 920 x 740	legs) x 920 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	
		in.					67-3/8 (65 without legs)	
	T			x 36-1/4 x 29-3/16		x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	
Protection	High pressure pre	otection					High pressure sensor	
devices				Pa (601 psi)		Pa (601 psi)	at 4.15 MP	

Inverter circuit (COMP/FAN) Over-heat protection, Over-current protection Over-heat protection, Over-current protection Over-heat protection, Over-current protection

208 (459)

Over-current protection

R410A x 7.5 kg (17 lbs) R410A x 10.3 kg (23 lbs)

Salt-resistant cross fin & aluminium tube

 9.52 (3/8) Brazed
 12.7 (1/2) Brazed

 22.2 (7/8) Brazed
 28.58 (1-1/8) Brazed

Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2

Header: CMY-Y104/108/1010-G

252 (556)

N	ot	es	5:

Refrigerant

Net weight

Heat exchanger

and distributor

Optional parts

Pipe between unit Liquid pipe

*1,*2 Nominal conditions

Compressor

Type x original charge

kg (lbs)

mm (in.)

mm (in.)

Fan motor

Gas pipe

	Indoor	Outdoor	Pipe length	Level difference	
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)	
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)	

Over-heat protection Over-heat protection

208 (459)

Over-current protection

Salt-resistant cross fin & aluminium tube

Sair-Jesistani Cross in a audminium tube 9.52 (3/8) Brazed 22.2 (7/8) Brazed 22.2 (7/8) Brazed 22.2 (7/8) Brazed Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2

Header: CMY-Y104/108/1010-G

208 (459)

*3 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).
*Nominal condition *1,*2 are subject to JIS B8615-1.

*Due to continuing improvement, above specification may be subject to change without notice.

Outdoor Unit





Header: CMY-Y104/108/1010-G

► Specifications

Model			PU	JHY-EP650YSLM-A (-I	BS)	PU	JHY-EP700YSLM-A (-E	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	*1	kW		73.0			80.0	
(Nominal)	*1	BTU / h		249,100			273,000	
, ,	Power input	kW		18.15			20.15	
	Current input	A		30.6-29.1-28.0			34.0-32.3-31.1	
	EER	kW / kW		4.02			3.97	
Temp. range of	Indoor	W.B.		15.0~24.0°C (59~75°F	·)		15.0~24.0°C (59~75°F	·)
cooling	Outdoor	D.B.	-	5.0~52.0°C (23~126°F	-)	-5.0~52.0°C (23~126°F)		
Heating capacity	*2	kW		81.5 88.0			, ,	
(Nominal)	*2	BTU / h		278,100			300,300	
	Power input	kW		20.07			21.67	
	Current input	A		33.8-32.1-31.0			36.5-34.7-33.4	
	COP	kW / kW		4.06			4.06	
Temp. range of	Indoor	D.B.		15.0~27.0°C (59~81°F	·)		15.0~27.0°C (59~81°F)
heating	Outdoor	W.B.		-20.0~15.5°C (-4~60°F	5)		-20.0~15.5°C (-4~60°F	5)
Indoor unit	Total capacity		50~1	30% of outdoor unit ca	pacity	50~1	30% of outdoor unit ca	pacity
connectable	Model / Quantity			P15~P250/2~50			P15~P250/2~50	
Sound pressure le (measured in ane		dB <a>		63			63.5	
Sound power leve		-A. D.		04.5			05.5	
	(measured in anechoic room) dB <as< td=""><td></td><td>84.5</td><td></td><td></td><td>85.5</td><td></td></as<>			84.5			85.5	
		mm (in.)		15.88 (5/8) Brazed 19.05 (3/4) Brazed				
diameter				28.58 (1-1/8) Brazed		34.93 (1-3/8) Brazed		
Set Model								
Model FAN	Tura					PUHY-EP200YLM-A (-BS)		
FAN	Type x Quantity	m³/min	Propeller fan x 1 175	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1 200
	Air flow rate	L/s	2,917	175 2,917	175 2.917	175 2,917	175 2,917	3,333
		cfm	6.179	6,179	6,179	6.179	6,179	7,062
	Driving mechanis		-1 -	-control, Direct-driven		-	-control, Direct-driven I	
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
	B External static pr	ress.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity			er scroll hermetic comp			er scroll hermetic comp	
	Starting method	1.3.67	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.6	5.6	6.9	5.6	5.6	8.1
Estensel Caleb	Case heater	kW				Pre-coated galvanized		
External finish			<mi< td=""><td>UNSELL 5Y 8/1 or sim</td><td>ilar></td><td><mi< td=""><td>UNSELL 5Y 8/1 or sim</td><td>ilar></td></mi<></td></mi<>	UNSELL 5Y 8/1 or sim	ilar>	<mi< td=""><td>UNSELL 5Y 8/1 or sim</td><td>ilar></td></mi<>	UNSELL 5Y 8/1 or sim	ilar>
External dimension	on HxWxD	mm			1,710 (1,650 without		1,710 (1,650 without	
			legs) x 920 x 740	legs) x 920 x 740	legs) x 920 x 740	legs) x 920 x 740	legs) x 920 x 740	legs) x 1,220 x 740
		in.	67-3/8 (65 without legs) x 36-1/4 x 29-3/16	67-3/8 (65 without legs) x 36-1/4 x 29-3/16	67-3/8 (65 without legs) x 36-1/4 x 29-3/16	67-3/8 (65 without legs) x 36-1/4 x 29-3/16	67-3/8 (65 without legs) x 36-1/4 x 29-3/16	67-3/8 (65 without legs) x 48-1/16 x 29-3/16
Protection	High pressure pr	otection	High pressure sensor	, High pressure switch	at 4.15 MPa (601 psi)	High pressure sensor	, High pressure switch	
devices	Inverter circuit (CC	MP./FAN)	Over-heat	protection, Over-curren	t protection	Over-heat	protection, Over-curren	t protection
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
	Fan motor			Over-current protection	n		Over-current protection	ſ
Refrigerant	Type x original cl	harge			R410A x 7.5 kg (17 lbs)		R410A x 7.5 kg (17 lbs)	
Net weight		kg (lbs)	208 (459)	208 (459)	208 (459)	208 (459)	208 (459)	252 (556)
Heat exchanger			Salt-resis	stant cross fin & alumir	nium tube	Salt-resis	stant cross fin & alumir	nium tube
Pipe between uni		mm (in.)	9.52 (3/8) Brazed	9.52 (3/8) Brazed	9.52 (3/8) Brazed	9.52 (3/8) Brazed	9.52 (3/8) Brazed	12.7 (1/2) Brazed
and distributor	Gas pipe	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed		28.58 (1-1/8) Brazed
Optional parts				r Twinning kit: CMY-Y3			r Twinning kit: CMY-Y3	
				102SS/LS-G2, CMY-Y			102SS/LS-G2, CMY-Y	
1			Hoo	der: CMY-Y104/108/10	10 G	Hoo	der: CMY-Y104/108/10	10 G

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

Header: CMY-Y104/108/1010-G

*3 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O). *Nominal condition *1,*2 are subject to JIS B8615-1.





► Specifications

Model			PU	JHY-EP750YSLM-A (-E	3S)	PL	JHY-EP800YSLM-A (-I	BS)	
Power source			3-phase	4-wire 380-400-415 V	50/60 Hz		4-wire 380-400-415 V		
Cooling capacity	*1	kW		85.0			90.0		
(Nominal)	*1	BTU / h		290.000			307,100		
	Power input	kW		21.85		23.43			
	Current input	А		36.8-35.0-33.7			39.5-37.5-36.2		
	EER	kW / kW		3.89			3.84		
Temp. range of	Indoor	W.B.		15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)			
cooling	Outdoor	D.B.	-	5.0~52.0°C (23~126°F	5)	-5.0~52.0°C (23~126°F)			
Heating capacity	*2	kW		95.0	/		100.0	/	
(Nominal)	*2	BTU / h		324,100			341,200		
	Power input	kW	23.92			25.18			
	Current input	A	40.3-38.3-36.9				42.5-40.3-38.9		
	COP	kW / kW		3.97			3.97		
		D.B.		15.0~27.0°C (59~81°F)		15.0~27.0°C (59~81°F)	
heating	Outdoor	W.B.		-20.0~15.5°C (-4~60°F			-20.0~15.5°C (-4~60°F		
Indoor unit	Total capacity			30% of outdoor unit ca			30% of outdoor unit ca		
connectable	Model / Quantity			P15~P250/2~50			P15~P250/2~50		
Sound pressure level (measured in anechoic room) dB <a>		dB <a>	64.5			65			
Sound power leve	Sound power level		85.5				86.5		
	(measured in anechoic room)								
	igerant piping Liquid pipe mm (in.			19.05 (3/4) Brazed			19.05 (3/4) Brazed		
diameter	Gas pipe	mm (in.)		34.93 (1-3/8) Brazed			34.93 (1-3/8) Brazed		
Set Model									
Model FAN	Turne v Ouentitu							PUHY-EP300YLM-A (-BS)	
FAN	Type x Quantity Air flow rate m ³ /min		Propeller fan x 1 175	Propeller fan x 1	Propeller fan x 1 200	Propeller fan x 1 175	Propeller fan x 1 200	Propeller fan x 1 200	
	Air flow rate	L/s	2,917	175 2.917	3.333	2.917	3.333	3.333	
				1-	- /	1-	-1	- /	
	Dairtin a sa a ba a in	cfm	6,179	6,179	7,062	6,179	7,062	7,062	
	Driving mechanis	1		-control, Direct-driven b			-control, Direct-driven	1	
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	
	3 External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	
Compressor	Type x Quantity			er scroll hermetic comp			er scroll hermetic comp		
	Starting method	T	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	5.6	6.9	8.1	5.6	8.1	8.1	
	Case heater	kW	-	-	-	-	-	-	
External finish			<m <="" td=""><td>d steel sheets (+powde UNSELL 5Y 8/1 or simi</td><td>ilar></td><td><m></m></td><td>UNSELL 5Y 8/1 or sim</td><td>ilar></td></m>	d steel sheets (+powde UNSELL 5Y 8/1 or simi	ilar>	<m></m>	UNSELL 5Y 8/1 or sim	ilar>	
External dimensi			1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without	
External dimension HxWxD		mm	legs) x 920 x 740	legs) x 920 x 740	legs) x 1,220 x 740	legs) x 920 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	
			67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)	
		in.	x 36-1/4 x 29-3/16	x 36-1/4 x 29-3/16	x 48-1/16 x 29-3/16	x 36-1/4 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	
Protection	High pressure pre	otection	High pressure sensor	, High pressure switch	at 4.15 MPa (601 psi)	High pressure sensor	, High pressure switch	at 4.15 MPa (601 psi)	
devices	Inverter circuit (CO	MP./FAN)		protection, Over-current			protection, Over-curren		
	Compressor	,	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	
	Fan motor			Over-current protection	i .		Over-current protection	1	
Refrigerant	Type x original ch	narde	R410A x 7.5 kg (17 lbs)	R410A x 7.5 kg (17 lbs)	R410A x 10.3 kg (23 lbs)	R410A x 7.5 kg (17 lbs)	R410A x 10.3 kg (23 lbs)	R410A x 10.3 kg (23 lbs)	

Reingerant	rype x originar c	narge	11410A X 1.3 Kg (11 103)	11410/1.3 kg (11 lb3)	10410AX 10.3 Kg (23 lb3)	11410/1X1.3 kg (11 103)	10-10-10-10-10-10-10-10-10-10-10-10-10-1	10/1 x 10.3 kg (23 lb3)
Net weight		kg (lbs)	208 (459)	208 (459)	252 (556)	208 (459)	252 (556)	252 (556)
Heat exchanger			Salt-resistant cross fin & aluminium tube			Salt-resistant cross fin & aluminium tube		
Pipe between unit	Liquid pipe	mm (in.)	9.52 (3/8) Brazed	9.52 (3/8) Brazed	12.7 (1/2) Brazed	9.52 (3/8) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed
and distributor	Gas pipe	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Optional parts			Outdoor	Twinning kit: CMY-Y3	: CMY-Y300VBK3 Outdoor Twinning kit: CMY-Y300VBK3			00VBK3
	Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2			Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2			202/302S-G2	
			Header: CMY-Y104/108/1010-G			Head	der: CMY-Y104/108/10	10-G

Notes:

*1,*2 Nominal conditions

r, z Norminal conditio												
	Indoor	Outdoor	Pipe length	Level difference								
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m (24-9/16ft.)	0m (0ft.)								
oboining	(81°F DB/66°F WB)	(95°F DB/75°F WB)	7.011 (24 0/1012)									
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)								

► Specifications

Model			PU	JHY-EP850YSLM-A (-E	3S)	PL	JHY-EP900YSLM-A (-E	3S)	
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	*1	kW		96.0			101.0		
(Nominal)	*1	BTU / h		327,600			344,600		
` '	Power input	kW		25.53			27.22		
	Current input	A		43.0-40.9-39.4		45.9-43.6-42.0			
	EER	kW / kW		3.76			3.71		
Temp. range of	Indoor	W.B.		15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)			
cooling	Outdoor	D.B.	-	5.0~52.0°C (23~126°F	() ()	-5.0~52.0°C (23~126°F)			
Heating capacity	*2	kW		108.0	,		113.0	,	
(Nominal)	*2	BTU/h		368,500			385,600		
(/	Power input	kW		27.76			29.04		
	Current input	А		46.8-44.5-42.9			49.0-46.5-44.8		
	COP	kW / kW		3.89			3.89		
Temp. range of	Indoor	D.B.		15.0~27.0°C (59~81°F)		15.0~27.0°C (59~81°F)	
heating	Outdoor	W.B.		-20.0~15.5°C (-4~60°F			-20.0~15.5°C (-4~60°F		
Indoor unit	Total capacity	11.5.		30% of outdoor unit ca			30% of outdoor unit ca		
connectable	Model / Quantity		00 1	P15~P250/2~50	paony		P15~P250/2~50	paony	
Sound pressure le									
(measured in ane		dB <a>		65.5			66		
Sound power leve									
(measured in ane		dB <a>		86.5			87		
Refrigerant piping		mm (in.)		19.05 (3/4) Brazed			19.05 (3/4) Brazed		
		mm (in.)				41.28 (1-5/8) Brazed			
Set Model	Ous pipe	[11111 (11.)		41.20 (1-5/0) Diazed			41.20 (1-5/0) Diazed		
Model			PUHY-EP250YI M-A (-BS)	PUHY-EP300YI M-A (-BS)	PUHY-EP300YI M-A (-BS)	PUHY-EP300YI M-A (-BS)	PUHY-EP300YI M-A (-BS)	PUHY-EP300YLM-A (-BS)	
FAN	Type x Quantity		Propeller fan x 1						
	Air flow rate	m ³ /min	175	200	200	200	200	200	
	an now rate	L/s	2,917	3,333	3,333	3,333	3,333	3,333	
		cfm	6,179	7,062	7,062	7,062	7,062	7,062	
	Driving mechanis	-		-control, Direct-driven I			-control, Direct-driven I		
	Motor output	kW	0.92 x 1						
*0	B External static pr		0.32 x 1 0 Pa (0 mmH ₂ O)	0.02 x 1 0 Pa (0 mmH ₂ O)	0.02 x 1 0 Pa (0 mmH ₂ O)	0.02 x 1 0 Pa (0 mmH ₂ O)	0.02 x 1 0 Pa (0 mmH ₂ O)	0.32 x 1 0 Pa (0 mmH ₂ O)	
Compressor	Type x Quantity	655.	· · · · · · · · · · · · · · · · · · ·	er scroll hermetic comp	()		er scroll hermetic comp		
Compressor	Starting method			Inverter			Inverter		
	Motor output	kW	Inverter		Inverter	Inverter	8.1	Inverter	
	Case heater	kW	6.9	8.1	8.1	8.1	0.1	8.1	
External finish	Case nealer	KVV	- Dra ar	- pated galvanized steel			- pated galvanized steel		
External linish				owder coating for -BS t			owder coating for -BS		
				UNSELL 5Y 8/1 or simi			UNSELL 5Y 8/1 or sim		
External dimensio		1		1,710 (1,650 without			1,710 (1,650 without		
External dimensio		mm	legs) x 920 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	
				67-3/8 (65 without legs)				67-3/8 (65 without legs)	
		in.	x 36-1/4 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	
Protection	High pressure pr	otaction		; High pressure switch				at 4.15 MPa (601 psi)	
devices	Inverter circuit (CC			protection, Over-currer			protection, Over-currer		
devices	Compressor			Over-heat protection			Over-heat protection		
	Fan motor			Over-current protection			Over-current protection		
Refrigerant	Type x original cl	harde		R410A x 10.3 kg (23 lbs)			R410A x 10.3 kg (23 lbs)		
Net weight	Trype A original C	kg (lbs)	208 (459)	252 (556)	252 (556)	252 (556)	252 (556)	252 (556)	
Heat exchanger		ing (ing)		stant cross fin & alumir			stant cross fin & alumir		
Pipe between unit	t Liquid nine	mm (in.)	9.52 (3/8) Brazed	12.7 (1/2) Brazed					
and distributor	Gas pipe	mm (in.)						28.58 (1-1/8) Brazed	
Optional parts	Juas hihe	[///// (III.)	()	r Twinning kit: CMY-Y3			Twinning kit: CMY-Y3		
Optional parts				102SS/LS-G2. CMY-Y3			102SS/LS-G2. CMY-Y3		
				der: CMY-Y104/108/10			der: CMY-Y104/108/10		
L			Teat	uci. Civit-1104/106/10	10-0	Пеа	uci. Civit-1104/106/10	10-0	

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 External static pressure option is available (30Pa, $60Pa / 3.1mmH_2O$, $6.1mmH_2O$). *Nominal condition *1,*2 are subject to JIS B8615-1.



► Specifications

Model			PU	IHY-EP950YSLM-A (-E	BS)	PU	HY-EP1000YSLM-A (-	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	*1	kW		108.0			113.0		
(Nominal)	*1	BTU / h		368,500			385,600		
, ,	Power input	kW		30.33		31.04			
	Current input	Α		51.2-48.6-46.8			52.4-49.7-47.9		
	EER	kW / kW		3.56			3.64		
Temp. range of	Indoor	W.B.		15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)	
cooling	Outdoor	D.B.	-	5.0~52.0°C (23~126°F			-5.0~52.0°C (23~126°F)		
Heating capacity	*2	kW		119.5	,		127.0		
(Nominal)	*2	BTU / h		407,700			433.300		
	Power input	kW	32.03			33.50			
Current input		А	54.0-51.3-49.5				56.5-53.7-51.7		
	COP	kW / kW		3.73		3.79			
Temp. range of	Indoor	D.B.		15.0~27.0°C (59~81°F)		15.0~27.0°C (59~81°F)	
heating	Outdoor	W.B.		-20.0~15.5°C (-4~60°F	·)		-20.0~15.5°C (-4~60°F)	
Indoor unit	Total capacity			30% of outdoor unit ca			30% of outdoor unit ca		
connectable	Model / Quantity			P15~P250/2~50			P15~P250/2~50		
Sound pressure le									
(measured in aned		dB <a>		66			66.5		
Sound power leve	,			0-			<i>a</i> =		
(measured in aneo		dB <a>		87			87		
Refrigerant piping		mm (in.)		19.05 (3/4) Brazed			19.05 (3/4) Brazed		
diameter	Gas pipe	mm (in.)			41.28 (1-5/8) Brazed				
Set Model									
Model			PUHY-EP300YLM-A (-BS)	PUHY-EP300YLM-A (-BS)	PUHY-EP350YLM-A (-BS)	PUHY-EP300YLM-A (-BS)	PUHY-EP300YLM-A (-BS)	PUHY-EP400YLM-A (-BS)	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 2				
	Air flow rate	m³/min	200	200	200	200	200	320	
		L/s	3,333	3.333	3,333	3.333	3,333	5,333	
		cfm	7.062	7.062	7.062	7.062	7.062	11.299	
	Driving mechanis	sm	Inverter	-control, Direct-driven I	by motor	Inverter	-control, Direct-driven I	by motor	
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 2	
*3	External static pr	ess	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)				
Compressor	Type x Quantity		()	er scroll hermetic comp			er scroll hermetic comp		
Compressor	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	8.1	8.1	10.5	8.1	8.1	10.9	
	Case heater	kW	-	-	-	-	-	-	
External finish	ouse neuter			bated galvanized steel					
External million				owder coating for -BS		Pre-coated galvanized steel sheets (+powder coating for -BS type)			
				UNSELL 5Y 8/1 or simi			UNSELL 5Y 8/1 or simi		
External dimensio	n HxWxD		1,710 (1,650 without	1,710 (1,650 without			1,710 (1,650 without		
		mm	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,750 x 740				
							67-3/8 (65 without legs)		
		in.	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 68-15/16 x 29-3/16				
Protection	High pressure pre	otection		High pressure switch			; High pressure switch		
devices	Inverter circuit (CO			protection, Over-currer			protection, Over-curren		
	Compressor		Over-heat protection	Over-heat protection		Over-heat protection		Over-heat protection	
	Fan motor		Over-current protection		Over-current protection		Over-current protection		
Refrigerant	Type x original ch	harge	R410A x 10.3 kg (23 lbs)	R410A x 10.3 kg (23 lbs)		R410A x 10.3 kg (23 lbs)			
Net weight	7,	kg (lbs)	252 (556)	252 (556)	252 (556)	252 (556)	252 (556)	318 (702)	
Heat exchanger				stant cross fin & alumir	- ()	- ()	stant cross fin & alumir		
Pipe between unit	Liquid pipe	mm (in.)		12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed	
and distributor	Gas pipe	mm (in.)		28.58 (1-1/8) Brazed			28.58 (1-1/8) Brazed		
Optional parts	1 F F F F			Twinning kit: CMY-Y3			r Twinning kit: CMY-Y3		
- puona puno				102SS/LS-G2, CMY-Y			102SS/LS-G2, CMY-Y		
				der: CMY-Y104/108/10			der: CMY-Y104/108/10		

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference	
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)	
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)	

*3 External static pressure option is available (30Pa, $60Pa / 3.1mmH_2O$, $6.1mmH_2O$). *Nominal condition *1,*2 are subject to JIS B8615-1.





Model			PUI	HY-EP1050YSLM-A (-I	BS)	PUI	HY-EP1100YSLM-A (-	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	*1	kW		118.0			124.0	
(Nominal)	*1	BTU / h		402,600			423,100	
	Power input	kW		34.40			38.15	
	Current input	A		58.0-55.1-53.1		64.4-61.1-58.9		
	EER	kW / kW		3.43			3.25	
Temp. range of	Indoor	W.B.		15.0~24.0°C (59~75°F))		15.0~24.0°C (59~75°F)
cooling	Outdoor	D.B.		5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)		
Heating capacity	*2	kW		132.0		140.0		
(Nominal)	*2	BTU / h		450,400			477,700	
	Power input	kW		36.87			41.17	
	Current input	A		62.2-59.1-56.9			69.5-66.0-63.6	
	COP	kW / kW		3.58			3.40	
Temp. range of	Indoor	D.B.		15.0~27.0°C (59~81°F)		15.0~27.0°C (59~81°F)		
heating	Outdoor	W.B.	-	20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)		
Indoor unit	Total capacity		50~13	50~130% of outdoor unit capacity			30% of outdoor unit ca	pacity
connectable	nectable Model / Quantity			P15~P250/3~50	•		P15~P250/3~50	
Sound pressure level dB <a>			66.5			66.5		
(measured in ane	(measured in anechoic room)			00.5			00.5	
Sound power leve		dB <a>		87.5			87.5	
(measured in ane		-						
Refrigerant piping		mm (in.)		19.05 (3/4) Brazed			19.05 (3/4) Brazed	
diameter	Gas pipe	mm (in.)		41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed	
Set Model								
Model						PUHY-EP350YLM-A (-BS)		
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 2	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2
	Air flow rate	m³/min	200	200	320	200	200	320
		L/s	3,333	3,333	5,333	3,333	3,333	5,333
		cfm	7,062	7,062	11,299	7,062	7,062	11,299
	Driving mechanis			control, Direct-driven b			control, Direct-driven I	
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 2	0.92 x 1	0.92 x 1	0.92 x 2
*3	External static pro	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverte	er scroll hermetic comp	ressor	Inverte	er scroll hermetic comp	pressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	8.1	10.5	10.9	10.5	10.5	10.9
	Case heater	kW	-	-	-	-	-	-
Extornal finish			Dro. oo	otod golyopizod stool	abaata	Dro. oo	otod golyopized steel	aboota

External finish			Pre-co	ated galvanized steel	sheets	Pre-co	bated galvanized steel	sheets
			(+p	owder coating for -BS t	type)	(+powder coating for -BS type)		
			<munsell 1="" 5y="" 8="" or="" similar=""></munsell>			<munsell 1="" 5y="" 8="" or="" similar=""></munsell>		
External dimension HxWxD		mm	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without
			legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,750 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,750 x 740
		in.	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)
			x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 68-15/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 68-15/16 x 29-3/16
Protection	High pressure pro	otection	High pressure sensor	, High pressure switch	at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 p		
devices	Inverter circuit (CO	MP./FAN)	Over-heat protection, Over-current protection		Over-heat	Over-heat protection, Over-current protection		
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
	Fan motor		Over-current protection	Over-current protection	Over-current protection	Over-current protection	Over-current protection	Over-current protection
Refrigerant	Type x original ch	narge	R410A x 10.3 kg (23 lbs)	R410A x 10.3 kg (23 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 10.3 kg (23 lbs)	R410A x 10.3 kg (23 lbs)	R410A x 11.8 kg (27 lbs)
Net weight		kg (lbs)	252 (556)	252 (556)	318 (702)	252 (556)	252 (556)	318 (702)
Heat exchanger			Salt-resis	stant cross fin & alumir	nium tube	Salt-resis	stant cross fin & alumir	nium tube
Pipe between unit	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed
and distributor	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Optional parts			Outdoor	Twinning kit: CMY-Y3	00VBK3	Outdoor Twinning kit: CMY-Y300VBK3		
			Joint: CMY-Y	Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Joint: CMY-Y102SS/LS		102SS/LS-G2, CMY-Y	202/302S-G2	
			Head	der: CMY-Y104/108/10	10-G	Head	der: CMY-Y104/108/10	10-G

Notes:

*1,*2 Nominal conditions

	Indoor	Indoor Outdoor		Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O). *Nominal condition *1,*2 are subject to JIS B8615-1.





► Specifications

Model			PU	HY-EP1150YSLM-A (-	BS)	PU	HY-EP1200YSLM-A (-	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	*.	1 kW		130.0		136.0			
(Nominal)	*-	1 BTU/h		443.600		464,000			
(,	Power input	kW		41.53		42.76			
	Current input	А		70.1-66.6-64.1			72.1-68.5-66.0		
	EER	kW / kW		3.13		3.18			
Temp. range of	Indoor	W.B.		15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)	
cooling	Outdoor	D.B.		5.0~52.0°C (23~126°F			5.0~52.0°C (23~126°F		
Heating capacity	**	2 kW		145.0	,	150.0			
(Nominal)	*	2 BTU / h		494,700		511,800			
Ì Í	Power input	kW		44.47		45.45			
	Current input	А		75.0-71.3-68.7			76.7-72.8-70.2		
	COP	kW / kW		3.26			3.30		
Temp. range of	Indoor	D.B.		15.0~27.0°C (59~81°F)		15.0~27.0°C (59~81°F	·)	
heating	Outdoor	W.B.		20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)			
Indoor unit	Total capacity		50~1	30% of outdoor unit ca	pacity	50~130% of outdoor unit capacity			
connectable	Model / Quantity	/		P15~P250/3~50		P15~P250/3			
Sound pressure le	evel	dB <a>		00 F			67		
(measured in ane	choic room)	06 <a>	66.5			67			
Sound power leve		dB <a>		87.5			87.5		
(measured in ane	choic room)	ub <a>					67.5		
Refrigerant piping	Liquid pipe	mm (in.)		19.05 (3/4) Brazed		19.05 (3/4) Brazed			
diameter	Gas pipe	mm (in.)		41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed		
Set Model									
Model								PUHY-EP450YLM-A (-BS)	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 2	Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	
	Air flow rate	m³/min	200	200	370	200	320	370	
		L/s	3,333	3,333	6,167	3,333	5,333	6,167	
		cfm	7,062	7,062	13,065	7,062	11,299	13,065	
	Driving mechan			control, Direct-driven			-control, Direct-driven		
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 2	0.92 x 1	0.92 x 2	0.92 x 2	
*3	External static p	ress.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	
Compressor	Type x Quantity		Inverte	er scroll hermetic comp	oressor	Inverte	er scroll hermetic comp	pressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	10.5	10.5	12.4	10.5	10.9	12.4	
	Case heater	kW	-	-	-	-	-	-	
External finish				ated galvanized steel			bated galvanized steel		
				owder coating for -BS t			owder coating for -BS t		
			<m <="" td=""><td>JNSELL 5Y 8/1 or simi</td><td>ilar></td><td></td><td>UNSELL 5Y 8/1 or sim</td><td></td></m>	JNSELL 5Y 8/1 or simi	ilar>		UNSELL 5Y 8/1 or sim		
External dimensio	n HxWxD	mm		1,710 (1,650 without					
			legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,750 x 740	legs) x 1,220 x 740		legs) x 1,750 x 740	
		in.				67-3/8 (65 without legs)			
			x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 68-15/16 x 29-3/16	x 48-1/16 x 29-3/16	x 68-15/16 x 29-3/16		
Protection	High pressure p					High pressure sensor			
doviceo	Invertor airquit (C)		Over beet	rotaction Over ourror	t protoction	Over beet	protoction Over ourror	t protection	

 (g)
 (23 lbs)
 (R410A ± 10.3 kg (25 lbs)
 (R410A ± 11.6 kg (25 lbs)

 56)
 252 (556)
 318 (702)

 Salt-resistant cross fin & aluminium tube

Outdoor Twinning kit: CMY-Y300VBK3

Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G

 Over-heat protection, Over-current protection
 Over-heat protection, Over-current protection

 Over-heat protection
 Over-heat protection
 Over-heat protection

 Over-heat protection
 Over-heat protection
 Over-heat protection

 Over-urrent protection
 Over-heat protection
 Over-heat protection

 Over-urrent protection
 Over-current protection
 Over-current protection

 R410A x 10.3 kg (23 lbs)
 R410A x 10.3 kg (23 lbs)
 R410A x 11.8 kg (27 lbs)
 R410A x 10.3 kg (23 lbs)
 R410A x 11.8 kg (27 lbs)

 252 (556)
 252 (556)
 252 (556)
 318 (702)
 252 (556)
 318 (702)
 318 (702)

 Salt-resistant cross fin & aluminium tube
 Salt-resistant cross fin & aluminium tube
 Salt-resistant cross fin & aluminium tube

Outdoor Twinning kit: CMY-Y300VBK3

Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G

 mm (in.)
 12.7 (1/2)
 Brazed
 12.7 (1/2)
 Brazed
 15.88 (5/8)
 Brazed
 12.7 (1/2)
 Brazed
 15.88 (5/8)
 Brazed
 15.88 (5/8)
 Brazed
 12.7 (1/2)
 Brazed
 15.88 (5/8)
 Brazed

Notes:

devices

Refrigerant

Net weight

Heat exchanger

and distributor

Optional parts

Pipe between unit Liquid pipe

Inverter circuit (COMP./FAN)

kg (lbs)

Type x original charge

Compressor an motor

Gas pipe

*1,*2 Nominal conditions

.,				
	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m (24-9/16ft.)	0m (0ft.)
Cooling	(81°F DB/66°F WB)	(95°F DB/75°F WB)	7.5111 (24-9/1011.)	UIII (UIL.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
ő	. ,			. ,

*3 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O). *Nominal condition *1,*2 are subject to JIS B8615-1.



► Specifications

Model			PU	HY-EP1250YSLM-A (-	BS)	PU	HY-EP1300YSLM-A (-	BS)	
Power source				4-wire 380-400-415 V			4-wire 380-400-415 V		
Cooling capacity	*1	kW		140.0			146.0		
(Nominal)	*1	BTU / h		477,700		498.200			
· /	Power input	kW		45.90			46.94	46.94	
	Current input	A		77.4-73.6-70.9			79.2-75.2-72.5		
	EER	kW / kW		3.05			3.11		
Temp. range of	Indoor	W.B.		15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)	
cooling	Outdoor	D.B.	-	5.0~52.0°C (23~126°F		-5.0~52.0°C (23~126°F)			
Heating capacity	*2	kW		156.5	,	163.0			
(Nominal)	*2	BTU / h		534,000			556,200		
. ,	Power input	kW		49.36			50.62		
	Current input	A		83.3-79.1-76.2 85.4-81.1-78.2					
	COP	kW / kW		3.17			3.22		
Temp. range of	Indoor	D.B.		15.0~27.0°C (59~81°F)		15.0~27.0°C (59~81°F)	
heating	Outdoor	W.B.	-	20.0~15.5°C (-4~60°F)	-	20.0~15.5°C (-4~60°F	0.0~15.5°C (-4~60°F)	
Indoor unit	Total capacity		50~13	30% of outdoor unit ca	pacity	50~13	30% of outdoor unit ca	pacity	
connectable	Model / Quantity			P15~P250/3~50		P15~P250/3~50			
Sound pressure le (measured in ane		dB <a>		67.5		68			
Sound power leve (measured in ane	el	dB <a>		88			88		
Refrigerant piping	Liquid pipe	mm (in.)	19.05 (3/4) Brazed				19.05 (3/4) Brazed		
diameter	Gas pipe	mm (in.)		41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed		
Set Model							, , ,		
Model			PUHY-EP350YLM-A (-BS)	PUHY-EP450YLM-A (-BS)	PUHY-EP450YLM-A (-BS)	PUHY-EP400YLM-A (-BS)	PUHY-EP450YLM-A (-BS)	PUHY-EP450YLM-A (-BS)	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	
	Air flow rate	m ³ /min	200	370	370	320	370	370	
		L/s	3,333	6,167	6,167	5,333	6,167	6,167	
		cfm	7,062	13,065	13,065	11,299	13,065	13,065	
	Driving mechanis	m	Inverter	control, Direct-driven b	by motor	Inverter-	control, Direct-driven I	by motor	
	Motor output	kW	0.92 x 1	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2	
*3	3 External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	
Compressor	Type x Quantity			er scroll hermetic comp			er scroll hermetic comp		
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
1	Motor output	L-\\\/	10 F	12.4	12.4	10.0	12.4	12.4	

	Motor output	kW	10.5	12.4	12.4	10.9	12.4	12.4
	Case heater	kW	-	-	-	-	-	-
External finish			Pre-co	bated galvanized steel	sheets	Pre-co	ated galvanized steel	sheets
			(+p	owder coating for -BS	ype)	(+pd	owder coating for -BS t	ype)
			<mi< td=""><td colspan="3"><munsell 1="" 5y="" 8="" or="" similar=""></munsell></td><td>JNSELL 5Y 8/1 or simi</td><td>lar></td></mi<>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>			JNSELL 5Y 8/1 or simi	lar>
External dimensio	n HxWxD	mm	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without
			legs) x 1,220 x 740	legs) x 1,750 x 740	legs) x 1,750 x 740	legs) x 1,750 x 740	legs) x 1,750 x 740	legs) x 1,750 x 740
		in.	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)
			x 48-1/16 x 29-3/16	x 68-15/16 x 29-3/16	x 68-15/16 x 29-3/16	x 68-15/16 x 29-3/16	x 68-15/16 x 29-3/16	x 68-15/16 x 29-3/16
Protection	High pressure pr	otection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi			
devices	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection			
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
	Fan motor		Over-current protection	Over-current protection	Over-current protection	Over-current protection	Over-current protection	Over-current protection
Refrigerant	Type x original ch	narge	R410A x 10.3 kg (23 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)
Net weight		kg (lbs)	252 (556)	318 (702)	318 (702)	318 (702)	318 (702)	318 (702)
Heat exchanger			Salt-resis	stant cross fin & alumir	ium tube	Salt-resis	stant cross fin & alumin	ium tube
Pipe between unit	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed
and distributor	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Optional parts				Twinning kit: CMY-Y3		Outdoor	Twinning kit: CMY-Y3	00VBK3
			Joint: CMY-Y	102SS/LS-G2, CMY-Y	202/302S-G2	Joint: CMY-Y	102SS/LS-G2, CMY-Y	202/302S-G2
			Head	der: CMY-Y104/108/10	10-G	Head	der: CMY-Y104/108/10	10-G

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference	
Casling	27°C DB/19°C WB	35°C DB/24°C WB	7 5 (04 0/40%)	0	
Cooling	(81°F DB/66°F WB)	(95°F DB/75°F WB)	7.50 (24-9/160.)	0m (0ft.)	
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)	
	Cooling Heating	Cooling 27°C DB/19°C WB (81°F DB/66°F WB)	27°C DB/19°C WB 35°C DB/24°C WB (81°F DB/66°F WB) (95°F DB/75°F WB)	Cooling 27°C DB/19°C WB 35°C DB/24°C WB 7.5m (24-9/16ft.) (81°F DB/66°F WB) (95°F DB/75°F WB) 7.5m (24-9/16ft.)	

*3 External static pressure option is available (30Pa, $60Pa / 3.1mmH_2O$, $6.1mmH_2O$). *Nominal condition *1,*2 are subject to JIS B8615-1.





► Specifications

Model				PUHY-EP1350YSLM-A (-BS)					
Power source				3-phase 4-wire 380-400-415 V 50/60 Hz					
Cooling capacity	*1	kW		150.0					
(Nominal)		BTU / h		511,800					
(Norminal)	Power input	kW		50.00					
	Current input	A		84.4-80.1-77.2					
	EER	kW / kW		3.00					
Temp. range of	Indoor	W.B.		15.0~24.0°C (59~75°F)					
cooling	Outdoor	D.B.		-5.0~52.0°C (23~126°F)					
Heating capacity	*2			168.0					
(Nominal)		BTU / h		573.200					
(Nominal)	Power input	kW		54.36					
	Current input	A		91.7-87.1-84.0					
	COP								
T		kW / kW		3.09					
Temp. range of	Indoor	D.B.		15.0~27.0°C (59~81°F)					
heating	Outdoor	W.B.		-20.0~15.5°C (-4~60°F)					
Indoor unit	Total capacity			50~130% of outdoor unit capacity					
connectable	Model / Quantity	1		P15~P250/3~50					
Sound pressure le (measured in ane		dB <a>		68					
Sound power leve (measured in ane		dB <a>		88					
Refrigerant piping		mm (in.)		19.05 (3/4) Brazed					
diameter	Gas pipe	mm (in.)		41.28 (1-5/8) Brazed					
Set Model	ouo pipo			11120 (1 0/0) Blazoa					
Model			PUHY-EP450YLM-A (-BS)	PUHY-EP450YLM-A (-BS)	PUHY-EP450YLM-A (-BS)				
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2				
	Air flow rate	m³/min	370	370	370				
		L/s	6.167	6.167	6.167				
		cfm	13,065	13.065	13.065				
	Driving mechanis	-	10,000	Inverter-control, Direct-driven by motor	10,000				
	Motor output	kW	0.92 x 2	0.92 x 2	0.92 x 2				
*0	External static pr								
	Type x Quantity	855.	0 Pa (0 IIIIIIH2O)	0 Pa (0 mmH ₂ O) 0 Pa (0 mmH ₂ O) 0 Pa (0 mmH ₂ O)					
Compressor	Starting method		Incentor	Inverter scroll hermetic compressor Inverter	Inverter				
	Motor output	kW	Inverter 12.4	12.4	12.4				
		kW		12.4					
External finish	Case heater	KVV	- Pre-coated	ے I galvanized steel sheets (+powder coating fo <munsell 1="" 5y="" 8="" or="" similar=""></munsell>	– or -BS type)				
External dimension	n HxWxD	mm	1,710 (1,650 without legs) x 1,750 x 740	1,710 (1,650 without legs) x 1,750 x 740	1,710 (1,650 without legs) x 1,750 x 740				
		in.		67-3/8 (65 without legs) x 68-15/16 x 29-3/16					
Protection	High pressure pr			sure sensor, High pressure switch at 4.15 MP					
devices	Inverter circuit (CO		riigh prost	Over-heat protection, Over-current protection					
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection				
	Fan motor		Over-current protection	Over-current protection	Over-current protection				
Refrigerant	Type x original ch	narge	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)				
Net weight	1.7po x original of	kg (lbs)	318 (702)	318 (702)	318 (702)				
Heat exchanger		ing (ips)	510 (702)	Salt-resistant cross fin & aluminium tube	510 (102)				
Pipe between unit		mm (in.)	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed				
and distributor	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed				
Optional parts		(iii.)	· · ·	Outdoor Twinning kit: CMY-Y300VBK3 pint: CMY-Y102SS/LS-G2, CMY-Y202/302S-C					
				Header: CMY-Y104/108/1010-G					

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m (24-9/16ft.)	0m (0ft.)
oboling	(81°F DB/66°F WB)	(95°F DB/75°F WB)	7.011 (24 0/1012)	on (ore)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)





Model			PQHY-P200YHM-A	PQHY-P250YHM-A	PQHY-P300YHM-A
Power source			3-phase 4-wire 380-400-415V 50/60Hz	3-phase 4-wire 380-400-415V 50/60Hz	3-phase 4-wire 380-400-415V 50/60Hz
Cooling capacity	*1	kW	22.4	28.0	33.5
(Nominal)	*1	BTU / h	76,400	95,500	114,300
, ,	Power input	kW	3.92	5.45	7.36
	Current input	A	6.6-6.2-6.0	9.2-8.7-8.4	12.4-11.8-11.3
	EER	kW / kW	5.71	5.13	4.55
Temp. range of	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
cooling	Circulating water	°C	10.0~45.0°C(50~113°F)	10.0~45.0°C(50~113°F)	10.0~45.0°C(50~113°F)
Heating capacity	*2		25.0	31.5	37.5
(Nominal)		BTU / h	85.300	107.500	128.000
(reominar)	Power input	kW	4.12	5.80	8.15
	Current input	A	6.9-6.6-6.3	9.7-9.3-8.9	13.7-13.0-12.5
	COP	kW / kW	6.06	5.43	4.60
Temp. range of	Indoor	D.B.	15.0~27.0°C(59~81°F)	5.43 15.0~27.0°C(59~81°F)	4.60 15.0~27.0°C(59~81°F)
heating	Circulating water	<u>о.в.</u> °С	10.0~45.0°C(50~113°F)	10.0~45.0°C(50~113°F)	10.0~45.0°C(50~113°F)
Indoor unit	Total capacity	10			
	Model / Quantity		50~130 % of heat source unit capacity	50~130 % of heat source unit capacity	50~130 % of heat source unit capacity
connectable			P15~P250 / 1~17	P15~P250 / 1~21	P15~P250 / 1~26
Sound pressure le (measured in aneo	choic room)	dB <a>	47	49	50
Refrigerant piping	Liquid pipe	mm (in.)	9.52(3/8) Brazed		9.52(3/8) Brazed (12.7(1/2) Brazed,total length >= 40m)
diameter [O.D.]	Gas pipe	mm (in.)	19.05(3/4) Brazed	22.2(7/8) Brazed	22.2(7/8) Brazed
Circulating water	Water flow rate	m³/h	5.76	5.76	5.76
		L/min	96	96	96
		cfm	3.4	3.4	3.4
	Pressure drop	kPa	17	17	17
	Operating volume range m ³ / h		4.5 ~ 7.2	4.5 ~ 7.2	4.5 ~ 7.2
Compressor	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	4.6	6.3	7.4
	Case heater	kW	0.035(240 V)	0.035(240 V)	0.035(240 V)
External finish			Acrylic painted steel plate	Acrylic painted steel plate	Acrylic painted steel plate
External dimensio	n HxWxD	mm	1,160(1,100 without legs) x 880 x 550	1,160(1,100 without legs) x 880 x 550	1,160(1,100 without legs) x 880 x 550
		in.	45-11/16(43-5/16 without legs) x 34-11/16 x 21-11/16	45-11/16(43-5/16 without legs) x 34-11/16 x 21-11/16	45-11/16(43-5/16 without legs) x 34-11/16 x 21-11/16
Protection	High pressure pro	otection	High pressure sensor, High pressure switch at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)	
devices	Inverter circuit (C				Over-heat protection, Over-current protection
	Compressor	•••••	Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant	Type x original ch	arge	R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)
Net weight	1.76.0.0.0	kg (lbs)	195(430)	195(430)	195(430)
Heat exchanger		1.9 (103)	plate type	plate type	plate type
. isat oxonanger	Water volume in plate	L	5.0	5.0	5.0
	Water pressure Max.	MPa	2.0	2.0	2.0
Optional parts			Joint: CMY-Y102SS-G2 Header: CMY-Y104/108/1010-G	Joint: CMY-Y102SS-G2, CMY-Y102LS-G2 Header: CMY-Y104/108/1010-G	Joint: CMY-Y102SS-G2,CMY-Y102LS-G2 Header: CMY-Y104/108/1010-G

Notes:

Outdoor Unit

*1,*2 Nominal conditions

	Indoor	Water temperature	Pipe length	Level difference
Cooling	27°CD.B./19°CW.B. (81°FD.B./66°FW.B.)	30°C (86°F)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°CD.B. (68°FD.B.)	20°C (68°F)		
	·		·	







Model			PQHY-P40	0YSHM-A	PQHY-P4	50YSHM-A	PQHY-P50	0YSHM-A
Power source			3-phase 4-wire 380	-400-415V 50/60Hz	3-phase 4-wire 380)-400-415V 50/60Hz	3-phase 4-wire 380	-400-415V 50/60Hz
Cooling capacity	*1	kW	45	5.0	5	0.0	56	6.0
(Nominal)	*1	BTU / h	153	,500	170	,600	191,100	
	Power input	kW	8.	25	9	.84	11.45	
	Current input	A	13.9-13	3.2-12.7	16.6-15.7-15.2		19.3-18.3-17.6	
	EER	kW / kW	5.	45	5.08			89
Temp. range of	Indoor	W.B.	15.0~24.0°	C(59~75°F)	15.0~24.0	C(59~75°F)	15.0~24.0°	C(59~75°F)
cooling	Circulating water	°C	10.0~45.0°C	C(50~113°F)	10.0~45.0°	C(50~113°F)	10.0~45.0°C	C(50~113°F)
Heating capacity	*2	kW).0	56.0			3.0
(Nominal)	*2	BTU / h	170	.600	191,100		215	.000
· /	Power input	kW		65		.42		.06
	Current input	A		3.8-13.3		6.7-16.1		0.3-18.6
	COP	kW / kW		78		37		22
Temp. range of	Indoor	D.B.	15.0~27.0°			C(59~81°F)	15.0~27.0°	
heating	Circulating water	°C	10.0~45.0°C			C(50~113°F)	10.0~45.0°0	
Indoor unit	Total capacity			source unit capacity	50~130 % of heat source unit capacity			source unit capacity
connectable	Model / Quantity		P15~P2		P15~P250 / 1~39			50 / 1~43
Sound pressure le								
(measured in ane		dB <a>	5	0	5	51	5	2
Refrigerant piping	Liquid pipe	mm (in.)	12.7(1/2) Brazed	15.88(5/	8) Brazed	15.88(5/8) Brazed	
diameter [O.D.]	Gas pipe	mm (in.)	28.58(1-1)	/8) Brazed	28.58(1-1	/8) Brazed	28.58(1-1/8) Brazed	
Set Model				,		,		,
Model			PQHY-P200YHM-A	PQHY-P200YHM-A	PQHY-P250YHM-A	PQHY-P200YHM-A	PQHY-P250YHM-A	PQHY-P250YHM-A
Circulating water	Water flow rate	m ³ /h	5.76 -	+ 5.76	5.76	+ 5.76	5.76 -	+ 5.76
-	L/min		96 + 96		96	+ 96	96 -	+ 96
		cfm	3.4 -	3.4 + 3.4		+ 3.4	3.4 + 3.4	
	Pressure drop	kPa	17	17	17	17	17	17
	Operating volume range	m³ / h	4.5 + 4.5	- 7.2 + 7.2	4.5 + 4.5	~ 7.2 + 7.2	4.5 + 4.5	- 7.2 + 7.2
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll he	metic compressor	Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	4.6	4.6	6.3	4.6	6.3	6.3
	Case heater	kW	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.035(240 V)
External finish	10000		Acrylic painte			ed steel plate		ed steel plate
External dimensio	n HxWxD			1,160(1,100 without	1,160(1,100 without		1,160(1,100 without	
		mm	legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550
		in.	45-11/16(43-5/16 without	45-11/16(43-5/16 without legs) x 34-11/16 x 21-11/16	45-11/16(43-5/16 without	45-11/16(43-5/16 without legs) x 34-11/16 x 21-11/16	45-11/16(43-5/16 without	45-11/16(43-5/16 without
Protection	High pressure pro	tection	High pressure sensor, High pres			ssure switch at 4.15MPa (601 psi)		sure switch at 4.15MPa (601 psi)
devices	Inverter circuit (C			Over-current protection		Over-current protection		Over-current protection
001000	Compressor	() (ivii .)		protection		t protection		protection
Refrigerant	Type x original ch	arde				R410A x 5.0kg (12lbs)		
Net weight	I Type X Unginal Cl	kg (lbs)	195(430)	195(430)	195(430)	195(430)	195(430)	195(430)
Heat exchanger		ry (ibs)	plate type	plate type	plate type	plate type	plate type	plate type
neat excitatiget	Water volume in plate	L	5.0	5.0	5.0	5.0	5.0	5.0
	Water pressure Max.	MPa	2.0	2.0	2.0	2.0	2.0	2.0
Optional parts	liviax.			g kit: CMY-Y100VBK2 -Y102LS-G2, CMY-Y202S-G2 104/108/1010-G	Joint: CMY-Y102SS-G2, CM	g kit: CMY-Y100VBK2 (-Y102LS-G2, CMY-Y202S-G2 104/108/1010-G	Joint: CMY-Y102SS-G2, CMY	g kit: CMY-Y100VBK2 -Y102LS-G2, CMY-Y202S-G2 104/108/1010-G

Notes:

*1,*2 Nominal conditions

Indoor Water temperature Pipe length Level difference Cooling 27°CD B/19°CWB 30°C (86°F) 40°C 40°C	
Cooling 27°CD.B./19°CW.B. 200C (969E)	е
(81°FD.B./66°FW.B.) 30°C (60°F) 7.5m (24-9/16ft.) 0m (0ft.)	
Heating 20°CD.B. (68°FD.B.) 20°C (68°F)	

Totaling 20 001.0 (0110.0,0) 20 001.0 (01





Model			PQHY-P5	50YSHM-A	PQHY-P60	00YSHM-A
Power source			3-phase 4-wire 380	-400-415V 50/60Hz	3-phase 4-wire 380	-400-415V 50/60Hz
Cooling capacity	*1	kW		3.0		9.0
(Nominal)	*1	BTU / h	215	,000	235	,400
l` ´	Power input	kW		.46		.48
	Current input	A		.5-20.8		1.8-23.9
	EER	kW / kW		68		45
Temp. range of	Indoor	W.B.	15.0~24.0°	C(59~75°F)	15.0~24.0°	C(59~75°F)
cooling	Circulating water	°C	10.0~45.0°C	C(50~113°F)	10.0~45.0°C	C(50~113°F)
Heating capacity	*2	kW	69	9.0	76	5.5
(Nominal)	*2	BTU / h	235	,400	261	,000
	Power input	kW	14	.65	17	.12
	Current input	A	24.7-23.4-22.6		28.9-27	7.4-26.4
	COP	kW / kW		70		46
Temp. range of	Indoor	D.B.		C(59~81°F)	15.0~27.0°	
heating	Circulating water	°C	10.0~45.0°C	C(50~113°F)	10.0~45.0°C	C(50~113°F)
Indoor unit	Total capacity			source unit capacity		source unit capacity
connectable	Model / Quantity		P15~P25	50 / 2~47	P15~P25	50 / 2~50
Sound pressure le		dB <a>	50	2.5	5	3
(measured in ane			-	-	-	-
Refrigerant piping		mm (in.)		3) Brazed		3) Brazed
diameter [O.D.]	Gas pipe	mm (in.)	28.58(1-1)	/8) Brazed	28.58(1-1)	/8) Brazed
Set Model						
Model	h		PQHY-P300YHM-A	PQHY-P250YHM-A	PQHY-P300YHM-A	PQHY-P300YHM-A
Circulating water	Water flow rate	m ³ / h		+ 5.76		+ 5.76
		L/min		+ 96		+ 96
	Descent desc	cfm		+ 3.4		+ 3.4
	Pressure drop Operating	kPa	17	17	17	17
	volume range	m³ / h	4.5 + 4.5 -	~ 7.2 + 7.2	4.5 + 4.5 -	~ 7.2 + 7.2
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	7.4	6.3	7.4	7.4
	Case heater	kW	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.035(240 V)
External finish			Acrylic painted steel plate	Acrylic painted steel plate	Acrylic painted steel plate	Acrylic painted steel plate
External dimensio	n HxWxD	mm	1,160(1,100 without legs) x 880 x 550	1,160(1,100 without legs) x 880 x 550	1,160(1,100 without legs) x 880 x 550	1,160(1,100 without legs) x 880 x 550
		in.		45-11/16(43-5/16 without legs) x 34-11/16 x 21-11/16		
Protection	High pressure pro	tection		sure switch at 4.15MPa (601 psi)		sure switch at 4.15MPa (601 psi)
devices	Inverter circuit (C			Over-current protection		Over-current protection
4011000	Compressor	01011 .)		protection		protection
Refrigerant	Type x original ch	arde	R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)
Net weight	1.77.0 % 61.9.101 01	kg (lbs)	195(430)	195(430)	195(430)	195(430)
Heat exchanger			plate type	plate type	plate type	plate type
j	Water volume in plate	L	5.0	5.0	5.0	5.0
	Water pressure Max.	MPa	2.0	2.0	2.0	2.0
Optional parts		1		g kit: CMY-Y100VBK2 G-G2, CMY-Y202S-G2, CMY-Y302S-G2	Heat Source Twinning Joint: CMY-Y102SS-G2, CMY-Y102LS	g kit: CMY-Y100VBK2 G-G2, CMY-Y202S-G2, CMY-Y302S-G2

Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y202S-G2, CMY-Y202S-G2, CMY-Y102LS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header:CMY-Y104/108/1010-G Header:CMY-Y104/108/1010-G

Notes:

*1,*2 Nominal conditions

	Indoor	Water temperature	Pipe length	Level difference
Cooling	27°CD.B./19°CW.B. (81°FD.B./66°FW.B.)	30°C (86°F)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°CD.B. (68°FD.B.)	20°C (68°F)		

*3 The ambient temperature of the heat source unit needs to be kept below 40°CD.B.

⁴ The ambient relative humidity of the heat source unit needs to be kept below 80%.
⁵ The heat source Unit should not be installed at outdoor.
⁶ Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

* Be sure to provide interlocking for the unit operation and water circuit. *Nominal condition *1,*2 are subject to JIS B8615-1. *Due to continuing improvement, above specification may be subject to change without notice.



Outdoor Unit



► Specifications

Temp. range of Inc cooling Ci Heating capacity (Nominal)	ower input urrent input	kW BTU / h kW A kW / kW W.B. °C kW		PQHY-P650YSHM-A 4-wire 380-400-415V 73.0 249,100 13.96 23.5-22.3-21.5 5.22 15.0-24.0°C(59-75°E)	50/60Hz	3-phase	PQHY-P700YSHM-A 4-wire 380-400-415V 80.0 273,000 15.58	50/60Hz
Cooling capacity (Nominal) PC EE Temp. range of Int cooling Ci Heating capacity (Nominal) PC	*1 ower input urrent input ER idoor irculating water *2 *2	BTU / h kW A kW / kW W.B. °C kW		73.0 249,100 13.96 23.5-22.3-21.5 5.22			80.0 273,000	
(Nominal) PC Cu EEE Temp. range of Inc cooling Ci Heating capacity (Nominal) PC	*1 ower input urrent input ER idoor irculating water *2 *2	BTU / h kW A kW / kW W.B. °C kW		249,100 13.96 23.5-22.3-21.5 5.22			273,000	
Pc CL EE Temp. range of Inc cooling Ci Heating capacity (Nominal) Pc	ower input urrent input ER idoor irculating water *2 *2	kW A kW / kW W.B. °C kW		13.96 23.5-22.3-21.5 5.22				
Temp. range of Inc cooling Ci Heating capacity (Nominal)	urrent input ER idoor irculating water *2 *2	A kW / kW W.B. °C kW		23.5-22.3-21.5 5.22				
Temp. range of Inc cooling Ci Heating capacity (Nominal)	ER idoor irculating water *2 *2	kW / kW W.B. °C kW		5.22			26.3-24.9-24.0	
Temp. range of cooling Ci Heating capacity (Nominal)	idoor irculating water *2 *2	W.B. °C kW					5.13	
cooling Ci Heating capacity (Nominal)	irculating water *2 *2	°C kW		15.0~24.0°C(59~75°F)			15.0~24.0°C(59~75°F)	1
Heating capacity (Nominal)	*2 *2	kW		0.0~45.0°C(50~113°F			10.0~45.0°C(50~113°F	
(Nominal)	*2		'	81.5)		88.0)
) / Po				278,100			300.300	
	ower input	kW		14.74			16.51	
	urrent input	A		24.8-23.6-22.7			27.8-26.4-25.5	
		kW / kW		5.52			5.33	
	door	D.B.		5.52 15.0~27.0°C(59~81°F)			5.55 15.0~27.0°C(59~81°F)	
	irculating water			0.0~45.0°C(50~113°F			10.0~45.0°C(50~113°F	
	otal capacity	U		% of heat source unit of	/		% of heat source unit	/
	lodel / Quantity		50~150	P15~P250 / 2~50	Japacity	50~150	P15~P250 / 2~50	сарасну
Sound pressure level				P15~P250/2~50			P15~P250/2~50	
(measured in anecho	pic room)	dB <a>		53			53.5	
Refrigerant piping Lic		mm (in.)		19.05(3/4) Brazed			19.05(3/4) Brazed	
diameter [O.D.] Ga	as pipe	mm (in.)		34.93(1-3/8) Brazed		34.93(1-3/8) Brazed		
Set Model								
Model			PQHY-P250YHM-A	PQHY-P200YHM-A	PQHY-P200YHM-A	PQHY-P250YHM-A	PQHY-P250YHM-A	PQHY-P200YHM-A
Circulating water Wa	/ater flow rate	m³ / h		5.76 + 5.76 + 5.76			5.76 + 5.76 + 5.76	
		L/min		96 + 96 + 96			96 + 96 + 96	
		cfm		3.4 + 3.4 + 3.4			3.4 + 3.4 + 3.4	
	ressure drop	kPa	17	17	17	17	17	17
	perating plume range	m³ / h	4.5 +	4.5 + 4.5 ~ 7.2 + 7.2 +	+ 7.2	4.5 +	+ 4.5 + 4.5 ~ 7.2 + 7.2	+ 7.2
Compressor Ty	ype x Quantity		Inverte	r scroll hermetic comp	ressor	Inverte	er scroll hermetic comp	ressor
St	tarting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
M	lotor output	kW	6.3	4.6	4.6	6.3	6.3	4.6
Ca	ase heater	kW	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.035(240 V)
External finish	1		A	crylic painted steel plat	te	A	crylic painted steel pla	te
External dimension H	HxWxD	mm		1,160(1,100 without legs) x 880 x 550		1,160(1,100 without legs) x 880 x 550	1,160(1,100 without legs) x 880 x 550	1,160(1,100 without legs) x 880 x 550
	-		45-11/16(43-5/16 without	45-11/16(43-5/16 without	45-11/16(43-5/16 without	45-11/16(43-5/16 without	45-11/16(43-5/16 without	45-11/16(43-5/16 without
		in.				legs) x 34-11/16 x 21-11/16		
Protection Hi	igh pressure pro	tection		High pressure switch			, High pressure switch	
	verter circuit (CO			protection, Over-curren			protection, Over-curren	
	ompressor		Over-fiear p	Over-heat protection	i protection	Over-fieat	Over-heat protection	i protection
Refrigerant Type x original charge		arne	R410A x 5.0kg (12lbs)		$R/104 \times 5.0 kg (12 lbc)$	$R/100 \times 5.0 kg (12 lbc)$		R410A x 5 0kg (12lbs)
Net weight		kg (lbs)	195(430)	195(430)	195(430)	195(430)	195(430)	195(430)
Heat exchanger		Kg (ID3)	plate type	plate type	plate type	plate type	plate type	plate type
W	/ater volume in late	L	5.0	5.0	5.0	5.0	5.0	5.0
W	/ater pressure lax.	MPa	2.0	2.0	2.0	2.0	2.0	2.0
Optional parts			Joint: CMY-Y102SS-G2,0	ce Twinning kit: CMY-Y CMY-Y102LS-G2,CMY-Y2 ler: CMY-Y104/108/10 ⁻	02S-G2,CMY-Y302S-G2	Joint: CMY-Y102SS-G2,	ce Twinning kit: CMY-\ CMY-Y102LS-G2,CMY-Y2 der: CMY-Y104/108/10	202S-G2,CMY-Y302S-G2

Notes:

*1,*2 Nominal conditions

	Indoor	Water temperature	Pipe length	Level difference					
Cooling 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.) 30°C (86°F) 7.5m (24-9/16ft.) 0m (0ft.)									
Heating									
	nit should not be installed at out strainer (more than 50 meshes)	loor. at the water inlet piping of the un	it.						



► Specifications

Model				PQHY-P750YSHM-A			PQHY-P800YSHM-A	
Power source			3-nhase	4-wire 380-400-415V	50/60Hz	3-nhase	4-wire 380-400-415V	50/60Hz
Cooling capacity	*1	kW	0-priase	85.0	30/00112	5-phase	90.0	30/00112
(Nominal)		BTU / h		290.000			307.100	
(Norminal)	Power input	kW		17.19			19.18	
	Current input	A		29.0-27.5-26.5			32.3-30.7-29.6	
	EER	kW / kW		4.94			4.69	
Temp. range of	Indoor	W.B.		4.94 15.0~24.0°C(59~75°F)			4.09 15.0~24.0°C(59~75°F)
cooling	Circulating water			0.0~45.0°C(50~113°F			10.0~45.0°C(50~113°F	
Heating capacity	*2)		10.0~45.0°C(50~113°F 100.0)
(Nominal)		BTU / h		95.0				
(Nominal)	Power input			324,100			341,200	
	Current input	kW		18.27			20.74	
		A		30.8-29.3-28.2			35.0-33.2-32.0	
- /		kW/kW		5.19			4.82	
Temp. range of	Indoor	D.B.		15.0~27.0°C(59~81°F)			15.0~27.0°C(59~81°F	
heating	Circulating water	°C		0.0~45.0°C(50~113°F	/		10.0~45.0°C(50~113°F	/
Indoor unit	Total capacity		50~130	% of heat source unit	capacity	50~130	% of heat source unit	capacity
connectable	Model / Quantity			P15~P250 / 2~50			P15~P250 / 2~50	
Sound pressure le (measured in aneo	choic room)	dB <a>		54			54	
Refrigerant piping	Liquid pipe	mm (in.)		19.05(3/4) Brazed			19.05(3/4) Brazed	
diameter [O.D.]	Gas pipe	mm (in.)		34.93(1-3/8) Brazed		34.93(1-3/8) Brazed		
Set Model								
Model			PQHY-P250YHM-A	PQHY-P250YHM-A	PQHY-P250YHM-A	PQHY-P300YHM-A	PQHY-P250YHM-A	PQHY-P250YHM-A
Circulating water	Water flow rate	m ³ /h		5.76 + 5.76 + 5.76			5.76 + 5.76 + 5.76	
		L/min		96 + 96 + 96			96 + 96 + 96	
		cfm		3.4 + 3.4 + 3.4			3.4 + 3.4 + 3.4	
	Pressure drop	kPa	17	17	17	17	17	17
	Operating volume range	m³ / h	4.5 +	- 4.5 + 4.5 ~ 7.2 + 7.2 -	+ 7.2	4.5 -	+ 4.5 + 4.5 ~ 7.2 + 7.2	+ 7.2
Compressor	Type x Quantity		Inverte	er scroll hermetic comp	ressor	Inverte	er scroll hermetic comp	ressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	6.3	6.3	6.3	7.4	6.3	6.3
	Case heater	kW	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.035(240 V)
External finish	outo noutor			crylic painted steel plat			crylic painted steel pla	
External dimensio	n HxWxD	mm	1,160(1,100 without	1,160(1,100 without	1,160(1,100 without	1,160(1,100 without	1,160(1,100 without	1,160(1,100 without
			legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550
		in.	45-11/16(43-5/16 without	45-11/16(43-5/16 without	45-11/16(43-5/16 without	45-11/16(43-5/16 without	45-11/16(43-5/16 without	45-11/16(43-5/16 without
Destantion	L Patra and a second second					legs) x 34-11/16 x 21-11/16		
Protection	High pressure pro			, High pressure switch			, High pressure switch	
devices	Inverter circuit (C	OMP.)	Over-heat p	protection, Over-curren	t protection	Over-heat	protection, Over-currer	it protection
Defriment	Compressor			Over-heat protection	D4404 E01 (/5")		Over-heat protection	D4404 5 01 (15")
Refrigerant	Type x original ch					R410A x 5.0kg (12lbs)		
Net weight		kg (lbs)	195(430)	195(430)	195(430)	195(430)	195(430)	195(430)
Heat exchanger			plate type	plate type	plate type	plate type	plate type	plate type
	Water volume in plate	L	5.0	5.0	5.0	5.0	5.0	5.0
	Water pressure Max.	MPa	2.0	2.0	2.0	2.0	2.0	2.0
Optional parts			Heat Sour	ce Twinning kit: CMY-Y	/300VBK2	Heat Sour	ce Twinning kit: CMY-	Y300VBK2

Notes:

Outdoor Unit

*1,*2 Nominal conditions

	Indoor	Water temperature	Pipe length	Level difference
Cooling	27°CD.B./19°CW.B. (81°FD.B./66°FW.B.)	30°C (86°F)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°CD.B. (68°FD.B.)	20°C (68°F)		

*3 The ambient temperature of the heat source unit needs to be kept below 40°CD.B.

¹³ The ambient temperature of the heat source unit needs to be kept below 40°C0.B.
¹⁴ The ambient relative humidity of the heat source unit needs to be kept below 80%.
¹⁵ The heat source Unit should not be installed at outdoor.
¹⁶ Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
¹⁷ T Be sure to provide interlocking for the unit operation and water circuit.
¹⁸ Nominal condition ¹¹, ¹² are subject to JIS B8615-1.
¹⁹ Due to continuing improvement, above specification may be subject to change without notice.





► Specifications

Model				PQHY-P850YSHM-A			PQHY-P900YSHM-A	
Power source			3-phase	4-wire 380-400-415V	50/60Hz	3-phase	4-wire 380-400-415V	50/60Hz
Cooling capacity	*1	kW		96.0			101.0	
(Nominal)		BTU / h		327,600			344,600	
()	Power input	kW		21,20			23.22	
	Current input	A		35.7-33.9-32.7			39.1-37.2-35.8	
	EER	kW / kW		4.52			4.34	
Temp. range of	Indoor	W.B.		15.0~24.0°C(59~75°F)			15.0~24.0°C(59~75°F)	
cooling	Circulating water			10.0~45.0°C(50~113°F			10.0~45.0°C(50~113°F	
Heating capacity	*2			108.0	/		113.0	/
(Nominal)		BTU / h		368.500			385.600	
()	Power input	kW		23.21			25.67	
	Current input	A		39.1-37.2-35.8			43.3-41.1-39.6	
	COP	kW / kW	4.65			4.40		
Temp. range of	Indoor	D.B.		15.0~27.0°C(59~81°F)	1		15.0~27.0°C(59~81°F)	1
heating	Circulating water			10.0~45.0°C(50~113°F			10.0~45.0°C(50~113°F	
Indoor unit	Total capacity	0		% of heat source unit			% of heat source unit	
connectable	Model / Quantity		00 100	P15~P250 / 2~50	oupdoity	00 100	P15~P250 / 2~50	oupdoily
Sound pressure le								
(measured in ane		dB <a>		54.5			55	
Refrigerant piping	,	mm (in.)		19.05(3/4) Brazed			19.05(3/4) Brazed	
diameter [O.D.]	Gas pipe	mm (in.)		41.28(1-5/8) Brazed			41.28(1-5/8) Brazed	
Set Model		[111111 (111.)		41.20(1-5/0) Diazed			41.20(1-5/0) Diazed	
Model			PQHY-P300YHM-A	PQHY-P300YHM-A	PQHY-P250YHM-A	PQHY-P300YHM-A	PQHY-P300YHM-A	PQHY-P300YHM-A
Circulating water	Water flow rate	m ³ /h		5.76 + 5.76 + 5.76	1 0011-1 20011101-74		5.76 + 5.76 + 5.76	
onoulduring water	Water new rate	L/min		96 + 96 + 96			96 + 96 + 96	
		cfm		3.4 + 3.4 + 3.4			3.4 + 3.4 + 3.4	
	Pressure drop	kPa	17	17	17	17	17	17
	Operating volume range	m³/h		4.5 + 4.5 ~ 7.2 + 7.2			+ 4.5 + 4.5 ~ 7.2 + 7.2 ·	
Compressor	Type x Quantity		Invorte	er scroll hermetic comp	roccor	Invorte	er scroll hermetic comp	roccor
Compressor	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	7.4	7.4	6.3	7.4	7.4	7.4
	Case heater	kW	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.035(240 V)
External finish	Case neutor	IX V V		crylic painted steel pla			crylic painted steel pla	
External dimensio	n HxWxD	mm	1,160(1,100 without	1,160(1,100 without	1,160(1,100 without	1,160(1,100 without	1,160(1,100 without	1,160(1,100 without
		in.	legs) x 880 x 550 45-11/16(43-5/16 without	legs) x 880 x 550 45-11/16(43-5/16 without	legs) x 880 x 550 45-11/16(43-5/16 without	legs) x 880 x 550 45-11/16(43-5/16 without		legs) x 880 x 550 45-11/16(43-5/16 without
	I					legs) x 34-11/16 x 21-11/16		
Protection	High pressure pre				at 4.15MPa (601 psi)		, High pressure switch	
devices	Inverter circuit (C	OMP.)	Over-heat p	protection, Over-currer	t protection	Over-heat	protection, Over-curren	t protection
Compressor			Over-heat protection			Over-heat protection		
Refrigerant	Type x original ch					R410A x 5.0kg (12lbs)		
Net weight		kg (lbs)	195(430)	195(430)	195(430)	195(430)	195(430)	195(430)
Heat exchanger			plate type	plate type	plate type	plate type	plate type	plate type
	Water volume in plate	L	5.0	5.0	5.0	5.0	5.0	5.0
	Water pressure Max.	MPa	2.0	2.0	2.0	2.0	2.0	2.0
Optional parts			Joint: CMY-Y102SS-G2,	ce Twinning kit: CMY-Y CMY-Y102LS-G2,CMY-Y2 der: CMY-Y104/108/10	202S-G2,CMY-Y302S-G2	Joint: CMY-Y102SS-G2,	ce Twinning kit: CMY-Y CMY-Y102LS-G2,CMY-Y2 der: CMY-Y104/108/10	02S-G2,CMY-Y302S-G2

Notes:

*1,*2 Nominal conditions

	Indoor	Indoor Water temperature		Level difference
Cooling	27°CD.B./19°CW.B. (81°FD.B./66°FW.B.)	30°C (86°F)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°CD.B. (68°FD.B.)	20°C (68°F)		

*3 The ambient temperature of the heat source unit needs to be kept below 40°CD.B.

¹³ The ambient temperature of the heat source unit needs to be kept below 40°C0.B.
¹⁴ The ambient relative humidity of the heat source unit needs to be kept below 80%.
¹⁵ The heat source Unit should not be installed at outdoor.
¹⁶ Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
¹⁷ T Be sure to provide interlocking for the unit operation and water circuit.
¹⁸ Nominal condition ¹¹, ¹² are subject to JIS B8615-1.
¹⁹ Due to continuing improvement, above specification may be subject to change without notice.





Coning capacity **1 EW 22.4 28.0 Nominal) **1 BTU / h 76.400 95500 Current input A 10.0-9.5-9.1 7.33 Carrent input A 10.0-9.5-9.1 13.2-17.12.2 EER KW / KW 3.76 3.53 Fernp range of Indoor W.B. 15.0-24.0° (28-75°F) 15.0-24.0° (26-75°F) Indoor D.B. -5.0-46.0° (23-115°F) 5.0-46.0° (23-115°F) Nominal) *2 BTU / h 85.300 107.500 Power input KW 4 11.0-10.4 1.4.6-13.8-13.3 Corp KW / KW 3.82 3.64 Fernp range of Indoor D.B. -15.0-27.0° (29-8-1°F) 15.0-27.0° (59-8-1°F) Outdoor W.B. -20.0-15.5° (-4.60°F) -20.0-15.5° (-4.60°F) Sound pressure level measured nanechoic room) dB <-A 80.5 80.5 Sound pressure level machoria nochoic room, 15.88 (-50) Brazed 19.05 (3/4) Brazed 19.05 (3/4) Brazed Type x Quantity Propeleir fan x 1 <th>Model</th> <th></th> <th></th> <th>PURY-P200YLM-A (-BS)</th> <th>PURY-P250YLM-A (-BS)</th>	Model			PURY-P200YLM-A (-BS)	PURY-P250YLM-A (-BS)
Nominal **1 BTU / h 76,400 95,500 Power input A 10.0-8,59.1 7.33 Gamen input A 10.0-8,59.1 3.3-12,712.2 ER KW/ KW 3.76 3.53 Gampa range of Lendor Indoor W.B. 15.0-24.0°C (59-75°F) 15.0-24.0°C (52-115°F) Joundoor D.B. -5.0-46.0°C (23-115°F) -5.0-46.0°C (23-115°F) -5.0-46.0°C (23-115°F) Version D.B. -5.0-46.0°C (23-115°F) -5.0-46.0°C (23-115°F) -5.0-46.0°C (23-115°F) Version D.B. -5.0-24.0°C (59-81°F) 10.75.00 107.500 Power input KW 6.54 8.65 -0.00 COP KW/ KW 3.62 10.75.00 10.75.00 Femp. range of Indoor Indoor W.B. -20.0-15.0°C (24-0°F) 20.0-15.0°C (24-0°F) Corrent input A -0.0-15.0°C (24-0°F) 20.0-15.0°C (24-0°F) 20.0-15.0°C (24-0°F) Corrent input Model / Quantity P15-P2501-20 P15-P2501-22 0.00 Sound powert level<	Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Power input KW 5.85 7.93 Termen tuput A 10.0-9.5-9.1 13.3-27.12.2 EER KW/ KW 3.76 3.53 booling '3 Outdoor D.B. -5.0-4.0°C (28-75°F) 15.0-24.0°C (59-75°F) Nominal '2 BTU /n 85.300 31.5 Nominal '2 BTU /n 85.300 107.500 Power input KW 0.6.54 8.65 Current input A 11.0-10.4-10.1 1.4.6.13.8-13.3 CoP KW/ KW 3.82 3.64 Femp. range of Indoor D.B. -20.0-15.5°C (4-60°F) Outdoor Web 50-150% 50-150% of outdoor unit capacity Order outil Total capacity P15-P250/1-20 P15-P250/1-25 Sound power level dB <a> 82.5 83.5 Barneetro Low pressure Im/min 19.85 19.5 Current input Inverter-control, Direct-driven by motor Inverter-control, Direct-driven by motor Sound power level	Cooling capacity	*1	kW	22.4	28.0
Current input A 10.0-8.5-9.1 13.3-12.7-12.2 Terp. range of leador Indoor W.B. 15.0-24.0°C (59-75°F) 15.0-24.0°C (59-75°F) Soutidor D.B. -5.0-46.0°C (23-115°F) -5.0-46.0°C (23-15°F) Heating capacity *2 IW -25.0 -30.7 Very input W -5.54 -8.67 -2.67 Current input A -11.0-10.4 -11.6-13.8-13.3 - Core W// W -8.54 -8.65 - Current input A -11.0-10.4 -14.6-13.8-13.3 - CoP W// W 3.82 -3.64 - - Guidor W.B. -22.0-15.5°C (4-60°F) -20.0-15.5°C (4-60°F) - - - Condor with Total capacity F05-F250/F-25 -	(Nominal)	*1	BTU / h	76,400	95,500
EER W// W 3.76 3.83 cooling 13 Outdoor D.B. 15.0-24.0°C (89-75°F) 15.0-24.0°C (89-75°F) sealing capacity *2 I.W 25.0 31.5 Nominal) *2 ETU/h 86.5 31.5 Nominal) *2 ETU/h 86.5 31.5 Nominal) *2 ETU/h 86.5 36.4 Corrent Input A 11.0-10.4-10.1 14.6-13.8-13.3 Corrent Input A 11.0-10.4-10.1 16.6-13.8-13.3 Corrent Input A 11.0-0.4-10.1 16.6-13.8-13.3 Corrent Input A 11.0-0.4-10.1 16.6-13.8-13.3 Corrent Input A 11.0-2.7.0°C (89-81°F) 20.0-15.5°C (4-60°F) undopose Input B -20.0-15.5°C (4-60°F) 20.0-15.0°C (4-60°F) undopose Input Model / Quantity P16-P2501-20 P16-P2501-25 Ound pressure Input P16 P2501-20 P16-P2501-25 Ondopose Input Inpose2.15°C (4-60°F) 18.6 (30) (34) Braze	· /	Power input	kW	5.95	7.93
EER W/V.W 3.76 3.83 cooling 13 Outdoor D.B. 15.0-24.0°C (89-75°F) 15.0-24.0°C (89-75°F) sealing capacity *2 LW 25.0 31.5 Nominal) *2 ETU/h 85.300 107.500 Y 21 W/V 85.4 8.65 Nominal) *2 ETU/h 85.300 107.500 Corrent Input A 11.0-0.4-10.1 14.6-13.8-13.3 Corrent Input A 11.0-0.4-10.1 14.6-13.8-13.3 Corrent Input A 11.0-0.4-10.1 16.0-27.0°C (69-81°F) Indoor DB 15.0-27.0°C (69-81°F) 20.0-155°C (4-60°F) Indoor WA B8 -20.0-155°C (4-60°F) Indoor Ower Input Model / Quantity 915-P2261-20 P15-P2261-22 Ound pressure level Model / Quantity P15-P2261-23 83.5 Model / Countity P16-P2301-25 83.5 155°C (4-60°F) Indeagacity S0.150% S0.150% S0.150% <td< td=""><td></td><td>Current input</td><td>Α</td><td>10.0-9.5-9.1</td><td>13.3-12.7-12.2</td></td<>		Current input	Α	10.0-9.5-9.1	13.3-12.7-12.2
coding **3 Outdoor D.B. -5.0-46.0°C (23-115°F) -5.0-46.0°C (23-115°F) Nominal) **2 BTU / h 85.300 107.500 Nominal) **2 BTU / h 85.300 107.500 Outdoor D.B. 11.0-10.4-10.1 14.6-13.8-13.3.1 COP W// KW 3.84 8.65 Goudoor D.B. 15.0-27.0°C (59-81°F) 1.0-0.27.0°C (59-81°F) Indoor W// KW 3.84 0.0-15.5°C (-4.69°F) -20.0-15.5°C (-4.69°F) ondor outing to a gradie gradie to a gradie to a gradie to a gradie to a gradie gradie t					
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Air flow rate m³/min 185 185 L/s 3,083 3,083 cfm 6,532 6,532 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 *4 External static press. 0 Pa (0 mmH ₂ O) 0 Pa (0 mmH ₂ O) Compressor Type x Quantity Inverter scroll hermetic compressor Inverter Starting method Inverter Inverter Inverter Motor output kW 5.6 6.9 Case heater kW - - external finish Pre-coated galvanized steel sheets (+powder coating for -BS type) (+powder coating for -BS type) <duality< td=""> 1.710 (1,650 without legs) x 36:7/4 x 29:3/16 67:3/8 (65 without legs) x 36:7/4 x 29:3/16 External dimension HxWxD mm 1.710 (1,650 without legs) x 36:7/4 x 29:3/16 67:3/8 (65 without legs) x 36:7/4 x 29:3/16 Protection High pressure protection High pressure sensor, High pressure switch at 4.15 MPa (601 psi) tevices High pressure protection</duality<>					
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cfm 6,532 6,532 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 *4 External static press. 0 Pa (0 mmH ₂ O) 0 Pa (0 mmH ₂ O) Compressor Type x Quantity Inverter scroll hermetic compressor Inverter Starting method Inverter Inverter 6.9 Case heater kW 5.6 6.9 Case heater kW - - External finish Pre-coated galvanized steel sheets (+powder coating for -BS type) (+powder coating for -BS type) MUNSELL 5Y 8/1 or similar> MUNSELL 5Y 8/1 or similar> 67-3/8 (65 without legs) x 920 x 740 1,710 (1,650 without legs) x 920 x 740 Protection mm 1,710 (1,650 without legs) x 920 x 740 1,710 (1,650 without legs) x 920 x 740 1,710 (1,650 without legs) x 32-1/4 x 29-3/16 Protection figh pressure protection figh pressure sensor, High pressure sensor, High pressure switch 44.15 MPA (601 psi) tevices High pressure sensor, High pressure protection Over-heat protection <td></td> <td>All liow rate</td> <td></td> <td></td> <td></td>		All liow rate			
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*4 External static press. 0 Pa (0 mmH ₂ O) 0 Pa (0 mmH ₂ O) Compressor Type x Quantity Inverter scroll hermetic compressor Inverter scroll hermetic compressor Starting method Inverter Inverter Inverter Motor output KW 5.6 6.9 External finish - - - External finish Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""> Pre-coated galvanized steel sheets (+powder coating for -BS type) MUNSELL 5Y 8/1 or similar> External dimension Mm 1.710 (1.650 without legs) x 920 x 740 1.710 (1.650 without legs) x 920 x 740 Protection Inverter circuit (COMP./FAN) Over-heat protection 67-3/8 (65 without legs) x 36-1/4 x 29-3/16 67-3/8 (65 without legs) x 36-1/4 x 29-3/16 Protection Inverter circuit (COMP./FAN) Over-heat protection Over-heat protection Inverter circuit (COMP./FAN) Over-heat protection Over-heat protection Inverter sorginal charge R410A x 9.5 kg (21 lbs) R410A x 9.5 kg (21 lbs) Net weight kg (lbs) 205 (452) 205 (452) Vet weight kg</munsell>					
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Case heater kW - - External finish Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""> Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""> External dimension HxWxD mm 1.710 (1.650 without legs) x 920 x 740 1.710 (1.650 without legs) x 920 x 740 Protection devices mm 1.710 (1.650 without legs) x 920 x 740 1.710 (1.650 without legs) x 920 x 740 Inverter circuit (COMP./FAN) over-heat protection Inverter circuit (COMP./FAN) Over-heat protection Over-heat protection High pressure sorts witch at 4.15 MPa (601 psi) Refrigerant Type x original charge R 410A x 9.5 kg (21 lbs) Over-heat protection Over-current protection Net weight kg (lbs) 205 (452) 205 (452) 205 (452) Protice Complexation Salt-resistant cross fin & copper tube Salt-resistant cross fin & copper tube Salt-resistant cross fin & copper tube Optional parts Joint: CMY-Y102SS-62, CMY-Y102LS-62, CMY-R160-J1 BC controller: CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1 BC controller: CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1</munsell></munsell>			k\\/		
External finish Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""> Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""> External dimension HxWxD mm 1.710 (1.650 without legs) x 920 x 740 1.710 (1.650 without legs) x 920 x 740 External dimension HxWxD in. 67-3/8 (65 without legs) x 920 x 740 1.710 (1.650 without legs) x 920 x 740 Protection High pressure protection levices High pressure protection Over-heat protection High pressure sensor, High pressure switch at 4.15 MPa (601 psi) Compressor Over-heat protection Fan motor Over-heat protection Over-current protection Over-heat protection Over-heat protection Net weight kg (bs) 205 (452) 205 (452) Heat exchanger Salt-resistant cross fin & copper tube Salt-resistant cross fin & copper tube Optional parts Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 BC controller: CMB-P104,105,106,108,1010,1013,1016V-G1 BC controller: CMB-P104,105,106,108,1010,1013,1016V-G1</munsell></munsell>					0.9
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Heat exchanger Salt-resistant cross fin & copper tube Salt-resistant cross fin & copper tube Optional parts Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1 Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-Y10ZS-G2,CMY-Y10ZS-G2,CMY-Y10ZS-G2,CMY-Y10ZS-G2,CMY-Y10ZS-G2,CMY-Y10ZS-G2,CMY-Y10ZS-G2,	Net weight	712.1.2.3.101.01			
Optional parts Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1 Joint: CMY-Y102LS-G2,CMY-R160-J1 BC controller: CMB-P104,105,106,108,1010,1013,1016V-G1 BC controller: CMB-P104,105,106,108,1010,1013,1016V-G1			3 (
BC controller: CMB-P104,105,106,108,1010,1013,1016V-G1 BC controller: CMB-P104,105,106,108,1010,1013,1016V-G1					
				Main BC controller: CMB-P108,1010,1013,1016V-GA1	Main BC controller: CMB-P108,1010,1013,1016V-GA1
Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1 Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1					

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)



► Specifications



Model			PURY-P300YLM-A (-BS)	PURY-P350YLM-A (-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	*1	kW	33.5	40.0
(Nominal)	*1	BTU / h	114,300	136,500
· /	Power input	kW	9.82	12.69
	Current input	А	16.5-15.7-15.1	21.4-20.3-19.6
	EER	kW / kW	3.41	3.15
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)	-5.0~46.0°C (23~115°F)
Heating capacity	*2		37.5	45.0
(Nominal)		BTU / h	128,000	153,500
(••••••••)	Power input	kW	10.77	12.97
	Current input	A	18.1-17.2-16.6	21.8-20.8-20.0
	COP	kW / kW	3.48	3.46
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit	Total capacity	VV.D.	50~150% of outdoor unit capacity	50~150% of outdoor unit capacity
connectable	Model / Quantity		P15~P250/1~30	P15~P250/1~35
Sound pressure le			F 15~F 250/ 1~30	F 13~F 230/ 1~33
(measured in anec		dB <a>	62.5	62.5
Sound power level (measured in anec		dB <a>	86	86
		·····	40.05 (0/4) Decent	40.05 (0(4) Press d
Refrigerant piping		mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed
diameter	Low pressure	mm (in.)	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed
FAN	Type x Quantity	37.	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m ³ /min	230	230
	-	L/s	3,833	3,833
		cfm	8,121	8,121
	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 pre	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter
	Motor output	kW	8.1	10.5
	Case heater	kW	-	-
External finish			Pre-coated galvanized steel sheets	Pre-coated galvanized steel sheets
			(+powder coating for -BS type)	(+powder coating for -BS type)
			<munsell 1="" 5y="" 8="" or="" similar=""></munsell>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>
External dimension	n HxWxD	mm	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,220 x 740
		in.	67-3/8 (65 without legs) x 48-1/16 x 29-3/16	67-3/8 (65 without legs) x 48-1/16 x 29-3/16
Protection	High pressure pro			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
devices	Inverter circuit (CO	MP./FAN)	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection
	Fan motor		Over-current protection	Over-current protection
Refrigerant	Type x original ch		R410A x 10.3 kg (23 lbs)	R410A x 10.3 kg (23 lbs)
Net weight		kg (lbs)	248 (547)	248 (547)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
Optional parts			Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1	Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1
			BC controller: CMB-P104,105,106,108,1010,1013,1016V-G1	BC controller: CMB-P104,105,106,108,1010,1013,1016V-G1
			Main BC controller: CMB-P108,1010,1013,1016V-GA1	Main BC controller: CMB-P108,1010,1013,1016V-GA1
			Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1	Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1

Notes:

*1,*2 Nominal conditions

	Indoor			Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

► Specifications



Model			PURY-P400Y	'SLM-A (-BS)	PURY-P450Y	SLM-A (-BS)	PURY-P500Y	SLM-A (-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	3-phase 4-wire 380-	400-415 V 50/60 Hz
Cooling capacity	*1	kW	45	5.0	50).0	56	6.0
(Nominal)	*1	BTU / h	153	,500	170	,600	191	,100
. ,	Power input	kW	12	.36	14	.16	16	.37
	Current input	Α	20.8-19	9.8-19.1	23.9-22	2.7-21.8	27.6-26	5.2-25.3
	EER	kW / kW		64		53		42
Temp. range of	Indoor	W.B.	15.0~24.0°	C (59~75°F)	15.0~24.0°	C (59~75°F)	15.0~24.0°0	C (59~75°F)
cooling *3	Outdoor	D.B.		(23~115°F)	-5.0~46.0°C		-5.0~46.0°C	
Heating capacity	*2	kW).0		6.0	63	
(Nominal)	*2			.600		.100	215	
()	Power input	kW		.08		.01	17	
	Current input	A).9-20.2		.0-23.2	29.2-27	
	COP	kW / kW		82		73	3.	
Temp. range of	Indoor	D.B.	15.0~27.0°		15.0~27.0°		15.0~27.0°0	
	Outdoor	W.B.		C (-4~60°F)	-20.0~15.5°		-20.0~15.5°	
Indoor unit	Total capacity	W.D.		door unit capacity		loor unit capacity	50~150% of outo	
connectable	Model / Quantity			50/1~40		50/1~45		50/1~50
Sound pressure le		1						
(measured in anec		dB <a>	6	2	62	2.5	6	3
Sound power level								
(measured in anec		dB <a>	85	5.5	8	6	86.5	
Refrigerant piping		mm (in.)	22.2 (7/9	B) Brazed	22.2 (7/9) Brazed	22.2 (7/9) Brazed
diameter	Low pressure	mm (in.)		/8) Brazed		/8) Brazed	28.58 (1-1	
Set Model	Low pressure		20.00 (1-1	70) Diazeu	20.00 (1-1	70) Diazeu	20.00 (1-1	70) Diazeu
Model			PURY-P200VI M-A (-BS)	PURY-P200VI M-A (-BS)	PURY-P200VI M-A (-BS)	PURV-P250VI M-A (-BS)	PURY-P250YLM-A (-BS)	PURY-P250VI M-A (-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m ³ /min	185	185	185	185	185	185
	/ III HOW TOLD	L/s	3,083	3,083	3.083	3.083	3.083	3.083
		cfm	6,532	6,532	6.532	6.532	6.532	6.532
	Driving mechanis	-		rect-driven by motor		ect-driven by motor	Inverter-control, Dir	
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
*4	External static pr		0.32 x 1 0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0.32 x 1 0 Pa (0 mmH ₂ O)	0.52 x 1 0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity	033.		metic compressor		metic compressor	Inverter scroll her	
Compressor	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.6	5.6	5.6	6.9	6.9	6.9
	Case heater	kW	5.0	5.0		0.9	0.9	0.9
External finish	Case nealer	KVV		nized steel sheets		nized steel sheets	Pre-coated galvar	—
				ng for -BS type)		ng for -BS type)	(+powder coati	
				' 8/1 or similar>		8/1 or similar>	<munsell 5y<="" td=""><td></td></munsell>	
External dimension				1,710 (1,650 without		1,710 (1,650 without		
		mm	legs) x 920 x 740	legs) x 920 x 740	legs) x 920 x 740	legs) x 920 x 740	legs) x 920 x 740	legs) x 920 x 740
					67-3/8 (65 without legs)		67-3/8 (65 without legs)	
		in.	x 36-1/4 x 29-3/16	x 36-1/4 x 29-3/16	x 36-1/4 x 29-3/16	x 36-1/4 x 29-3/16	x 36-1/4 x 29-3/16	x 36-1/4 x 29-3/16
Protection	1						High pressure sensor.	
devices	High pressure pre	otection		a (601 psi)	at 4.15 MF		at 4.15 MP	
uevices	Inverter circuit (CO			Over-current protection		Over-current protection	Over-heat protection, (
	Compressor	$\frac{1}{1}$		Over-heat protection		Over-heat protection		
	Fan motor			nt protection		nt protection	Over-rieat protection Over-currer	
Refrigerant	Type x original ch	argo					R410A x 9.5 kg (21 lbs)	
Net weight	Type x original cr	kg (lbs)	205 (452)	205 (452)	205 (452)	205 (452)	205 (452)	205 (452)
Net weight		ry (ins)		203 (432)		203 (452)	205 (452) Solt registert group	

kg (lbs) 205 (452) 205 (452) 205 (452) 205 (452) 205 (452) 205 (452)
 Salt-resistant cross fin & copper tube

 15.88 (5/8) Brazed
 19.05 (3/4) Brazed

 Salt-resistant cross fin & copper tube

 19.05 (3/4) Brazed
 19.05 (3/4) Brazed

 Salt-resistant cross fin & copper tube

 15.88 (5/8) Brazed
 15.88 (5/8) Brazed
 Heat exchanger Pipe between unit High pressure mm (in.) and distributor Low pressure 19.05 (3/4) Brazed 19.05 (3/4) Brazed 22.2 (7/8) Brazed mm (in.) Outdoor Twinning kit: CMY-R100VBK-A Joint: CMY-Y102S-G2,CMY-Y102L-G2,CMY-R160-J1 Outdoor Twinning kit: CMY-R100VBK-A Joint: CMY-Y102S-G2,CMY-Y102L-G2,CMY-R160-J1 Outdoor Twinning kit: CMY-R100VBK-A Joint: CMY-Y102S-G2,CMY-Y102L-G2,CMY-R160-J1 Optional parts Main BC controller: CMB-P108.1010.1013.1016V-GA1 Main BC controller: CMB-P108,1010,1013,1016V-GA1 Main BC controller: CMB-P108.1010.1013.1016V-GA1 Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1 Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1 Sub BC controller: CMB-P104,08V-GB1,CMB-P1016V-HB1 Sub BC controller: CMB-P104,08V-GB1,CMB-P104,08V-GB1,CMB-P1016V-HB1 Sub BC controller: CMB-P104,08V-GB1,CMB-P1016V-HB1 Sub BC controller: CMB-P104,08V-GB1,CM

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 -5°C DB (23°F DB) / -6°C WB (21°F WB) to 21°C DB (70°F DB) / 15.5°C WB (60°F WB) with cooling/heating mixed operation.

*4 External static pressure option is available (30Pa, 60Pa / 3.1mmHzO, 6.1mmHzO). *Nominal condition *1,*2 are subject to JIS B8615-1. *Due to continuing improvement, above specification may be subject to change without notice.



Specifications



Model			PURY-P550YSLM-A (-BS)	PURY-P600YSLM-A (-BS)	PURY-P650YSLM-A (-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	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	63.0	69.0	73.0
(Nominal)	*1	BTU / h	215,000	235,400	249,100
. ,	Power input	kW	18.75	20.90	22.95
	Current input	Α	31.6-30.0-28.9	35.2-33.5-32.3	38.7-36.8-35.4
	EER	kW / kW	3.36	3.30	3.18
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling *3	Outdoor	D.B.	-5.0~46.0°C (23~115°F)	-5.0~46.0°C (23~115°F)	-5.0~46.0°C (23~115°F)
Heating capacity	*2	kW	69.0	76.5	81.5
(Nominal)	*2	BTU / h	235,400	261,000	278,100
	Power input	kW	19.38	21.98	23.48
	Current input	A	32.7-31.0-29.9	37.1-35.2-33.9	39.6-37.6-36.2
	COP	kW / kW	3.56	3.48	3.47
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
heating *3	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit	Total capacity		50~150% of outdoor unit capacity	50~150% of outdoor unit capacity	50~150% of outdoor unit capacity
connectable	Model / Quantity		P15~P250/2~50	P15~P250/2~50	P15~P250/2~50
Sound pressure le (measured in aneo		dB <a>	64.5	65.5	65.5
Sound power leve measured in ane		dB <a>	88	89	89
Refrigerant piping	High pressure	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
diameter	Low pressure	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Set Model				· · ·	• • • •
Model			PURY-P250YLM-A (-BS) PURY-P300YLM-A (-BS)	PURY-P300YLM-A (-BS) PURY-P300YLM-A (-BS)	PURY-P300YLM-A (-BS) PURY-P350YLM-A (-

Model			PURY-P250YLM-A (-BS)	PURY-P300YLM-A (-BS)	PURY-P300YLM-A (-BS)	PURY-P300YLM-A (-BS)	PURY-P300YLM-A (-BS)	PURY-P350YLM-A (-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m³/min	185	230	230	230	230	230
		L/s	3,083	3,833	3,833	3,833	3,833	3,833
		cfm	6,532	8,121	8,121	8,121	8,121	8,121
	Driving mechanis	m	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor	Inverter-control, Di	ect-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
*4	External static pre	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	6.9	8.1	8.1	8.1	8.1	10.5
	Case heater	kW	-	-	-	-	-	-
External finish			Pre-coated galvar	nized steel sheets	Pre-coated galva	nized steel sheets	Pre-coated galva	nized steel sheets
			(+powder coating	ng for -BS type)	e) (+powder coating for -BS type)		(+powder coating for -BS type)	
			<munsell 5y<="" td=""><td>' 8/1 or similar></td><td><munsell 5y<="" td=""><td>' 8/1 or similar></td><td><munsell 51<="" td=""><td>' 8/1 or similar></td></munsell></td></munsell></td></munsell>	' 8/1 or similar>	<munsell 5y<="" td=""><td>' 8/1 or similar></td><td><munsell 51<="" td=""><td>' 8/1 or similar></td></munsell></td></munsell>	' 8/1 or similar>	<munsell 51<="" td=""><td>' 8/1 or similar></td></munsell>	' 8/1 or similar>
External dimension	n HxWxD	mm	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without
		111111	legs) x 920 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740
		in.	67-3/8 (65 without legs)		67-3/8 (65 without legs)		67-3/8 (65 without legs)	
			x 36-1/4 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16
Protection	High pressure pro	tection		High pressure switch	High pressure sensor			, High pressure switch
devices	•		at 4.15 MP			Pa (601 psi)		Pa (601 psi)
	Inverter circuit (CO	MP./FAN)	Over-heat protection, 0		Over-heat protection, 0	Over-current protection		Over-current protection
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
	Fan motor			nt protection		nt protection		nt protection
Refrigerant	Type x original ch				R410A x 10.3 kg (23 lbs)			R410A x 10.3 kg (23 lbs)
Net weight		kg (lbs)	205 (452)	248 (547)	248 (547)	248 (547)	248 (547)	248 (547)
Heat exchanger			s fin & copper tube	Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube	
Pipe between unit	High pressure	mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	19.05 (3/4)	19.05 (3/4) Brazed	19.05 (3/4) Brazed
and distributor	Low pressure	mm (in.)	22.2 (7/8) Brazed	-	22.2 (7/8) Brazed	-	22.2 (7/8) Brazed	
Optional parts				it: CMY-R100VBK2		kit: CMY-R100VBK2		tit: CMY-R100VBK2
			Joint: CMY-Y102SS-G2,CM		Joint: CMY-Y102SS-G2,CM			Y-Y102LS-G2,CMY-R160-J1
				108,1010,1013,1016V-GA1	Main BC controller: CMB-P		Main BC controller: CMB-P	
			Sub BC controller: CMB-P104	,108V-GB1,CMB-P1016V-HB1	Sub BC controller: CMB-P104	,108V-GB1,CMB-P1016V-HB1	Sub BC controller: CMB-P104	,108V-GB1,CMB-P1016V-HB1

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

Specifications



Model			PURY-P700Y	SLM-A (-BS)	PURY-P750Y	SLM-A (-BS)	PURY-P800Y	SLM-A (-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	3-phase 4-wire 380-	400-415 V 50/60 Hz
Cooling capacity	*1	1	80	0.0	85	5.0	90	.0
(Nominal)	*1	BTU / h	273,	.000	290,000		307,100	
	Power input	kW	26.	22	28	.23	30.	.30
	Current input	A	44.2-42	44.2-42.0-40.5		5.2-43.6	51.1-48	.5-46.8
	EER	kW / kW	3.0	05	3.	01	2.9	97
Temp. range of	Indoor	W.B.	15.0~24.0°C		15.0~24.0°		15.0~24.0°C	
cooling *3	Outdoor	D.B.	-5.0~46.0°C	(23~115°F)	-5.0~46.0°C	; (23~115°F)	-5.0~46.0°C	
Heating capacity	*2		88	.0	90).0	90	.0
(Nominal)	*2	BTU / h	300,			,100	307,	
	Power input	kW	25.		25		24.	
	Current input	A	42.9-40).8-39.4	42.0-39	
	COP	kW / kW	3.4			53	3.6	
Temp. range of	Indoor	D.B.	15.0~27.0°C		15.0~27.0°		15.0~27.0°C	
	Outdoor	W.B.	-20.0~15.5°		-20.0~15.5°		-20.0~15.5°	
Indoor unit	Total capacity		50~150% of outo		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
connectable	Model / Quantity		P15~P2	50/2~50	P15~P2	50/2~50	P15~P2	50/2~50
	ound pressure level dB <a>		65	5	64	5.5	65	5
(measured in aneo			00		00		00	
Sound power leve		dB <a>	8	٩	89 89		q	
(measured in aneo			_		-	-		-
Refrigerant piping		mm (in.)	28.58 (1-1			/8) Brazed	28.58 (1-1)	
diameter	Low pressure	mm (in.)	34.93 (1-3	/8) Brazed	34.93 (1-3	/8) Brazed	34.93 (1-3)	/8) Brazed
Set Model								
Model							PURY-P400YLM-A (-BS)	
FAN	Type x Quantity	27.	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m³/min	230	230	230	230	230	230
		L/s	3,833	3,833	3,833	3,833	3,833	3,833
		cfm	8,121	8,121	8,121	8,121	8,121	8,121
	Driving mechanis		Inverter-control, Dir			ect-driven by motor	Inverter-control, Dir	
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverter scroll her			metic compressor	Inverter scroll her	
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	10.5	10.5	10.5	10.9	10.9	10.9
1	Case beater	L/V/	1			1		

	Starting method		Inverter	Inverter	Inventer	Inverter	Inventer	Inventer
	Motor output	kW	10.5	10.5	10.5	10.9	10.9	10.9
	Case heater	kW	-	-	-	-	-	-
External finish			Pre-coated galvanized steel sheets		Pre-coated galvar	nized steel sheets	Pre-coated galva	nized steel sheets
			(+powder coatir	ng for -BS type)	(+powder coatir	ng for -BS type)		ng for -BS type)
			<munsell 5y<="" td=""><td>' 8/1 or similar></td><td><munsell 5y<="" td=""><td>′ 8/1 or similar></td><td><munsell 51<="" td=""><td>' 8/1 or similar></td></munsell></td></munsell></td></munsell>	' 8/1 or similar>	<munsell 5y<="" td=""><td>′ 8/1 or similar></td><td><munsell 51<="" td=""><td>' 8/1 or similar></td></munsell></td></munsell>	′ 8/1 or similar>	<munsell 51<="" td=""><td>' 8/1 or similar></td></munsell>	' 8/1 or similar>
External dimensior	n HxWxD	mm	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without
			legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740
		in.	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)
			x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16
Protection	High pressure pro	tootion	High pressure sensor,	High pressure switch	High pressure sensor,	, High pressure switch	High pressure sensor	, High pressure switch
devices	nigh pressure pro	JIECTION	at 4.15 MPa (601 psi)		at 4.15 MPa (601 psi)		at 4.15 MPa (601 psi)	
	Inverter circuit (CO	MP./FAN)	Over-heat protection, O	Over-current protection	Over-heat protection, 0	Over-current protection	Over-heat protection,	Over-current protection
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
	Fan motor		Over-current protection		Over-current protection		Over-current protection	
Refrigerant	Type x original ch	arge	R410A x 10.3 kg (23 lbs)	R410A x 10.3 kg (23 lbs)	R410A x 10.3 kg (23 lbs)	R410A x 10.3 kg (23 lbs)	R410A x 10.3 kg (23 lbs)	R410A x 10.3 kg (23 lbs)
Net weight		kg (lbs)	248 (547)	248 (547)	248 (547)	246 (543)	246 (543)	246 (543)
Heat exchanger			Salt-resistant cross	s fin & copper tube	Salt-resistant cross	s fin & copper tube	Salt-resistant cros	s fin & copper tube
Pipe between unit	High pressure	mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed
and distributor	Low pressure	mm (in.)	28.58 (1-1/8) Brazed	_	28.58 (1-1/8) Brazed	-	28.58 (1-1/8) Brazed	-
Optional parts			Outdoor Twinning k	it: CMY-R200VBK2	Outdoor Twinning k	kit: CMY-R200VBK2	Outdoor Twinning	kit: CMY-R200VBK2
			Joint: CMY-Y102SS-G2,CM	Y-Y102LS-G2,CMY-R160-J1	Joint: CMY-Y102SS-G2,CM	Y-Y102LS-G2,CMY-R160-J1	Joint: CMY-Y102SS-G2,CM	Y-Y102LS-G2,CMY-R160-J1
			Main BC controller:	CMB-P1016V-HA1	Main BC controller:	CMB-P1016V-HA1	Main BC controller:	CMB-P1016V-HA1
			Sub BC controller: CMB-P104	,108V-GB1,CMB-P1016V-HB1	Sub BC controller: CMB-P104	,108V-GB1,CMB-P1016V-HB1	Sub BC controller: CMB-P104	,108V-GB1,CMB-P1016V-HB1

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)





► Specifications

Model			PURY-P850Y	/SLM-A (-BS)	PURY-P900Y	SLM-A (-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	*1	kW	96	6.0	10'	1.0
(Nominal)	*1	BTU / h	327	,600	344,	600
	Power input	kW	31	.16	31.	56
	Current input	A	52.6-49	9.9-48.1	53.2-50.6-48.7	
	EER	kW/kW	W 3.08		3.20	
Temp. range of	Indoor	W.B.		C (59~75°F)	15.0~24.0°C	C (59~75°F)
cooling *3	Outdoor	D.B.	-5.0~46.0°C	(23~115°F)	-5.0~46.0°C	(23~115°F)
Heating capacity	*2	kW		1.0	11;	3.0
(Nominal)	*2	BTU / h	344	,600	385.	600
` '	Power input	kW	28	.53	32	47
	Current input	Α	48.1-45	5.7-44.1	54.8-52	.0-50.1
	COP	kW / kW		54	3.4	
Temp. range of	Indoor	D.B.		C (59~81°F)	15.0~27.0°C	C (59~81°F)
	Outdoor	W.B.		C (-4~60°F)	-20.0~15.5°	
Indoor unit	Total capacity			loor unit capacity	50~150% of outd	
connectable	Model / Quantity			50/2~50	P15~P2	
Sound pressure le						
(measured in ane		dB <a>	65	5.5	65	.5
Sound power leve						_
(measured in ane		dB <a>	89		8	9
Refrigerant piping		mm (in.)	28.58 (1-1	/8) Brazed	28.58 (1-1)	(8) Brazed
diameter	Low pressure	mm (in.)		/8) Brazed	41.28 (1-5	
Set Model	Lon procedio		1120 (1010) Blazod			5) 214204
Model			PURY-P400YLM-A (-BS)	PURY-P450YLM-A (-BS)	PURY-P450YLM-A (-BS)	PURY-P450YLM-A (-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Air flow rate	m ³ /min	230	320	320	320
		L/s	3,833	5,333	5,333	5,333
		cfm	8.121	11,299	11.299	11,299
	Driving mechanis	-		ect-driven by motor	Inverter-control, Dir	
	Motor output	kW	0.92 x 1	0.92 x 2	0.92 x 2	0.92 x 2
*4	External static pro		0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity			metic compressor	Inverter scroll hermetic compressor	
Compresses	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	10.9	12.4	12.4	12.4
	Case heater	kW	-	-	-	-
External finish	ouse neuter		Pre-coated galva	nized steel sheets	Pre-coated galvar	nized steel sheets
External million			(+powder coati	ng for -BS type) ' 8/1 or similar>		ng for -BS type)
External dimensio	n HxWxD		1,710 (1,650 without legs)	1,710 (1,650 without legs)	1,710 (1,650 without legs)	1,710 (1,650 without legs)
		mm	x 1,220 x 740	x 1,750 x 740	x 1,750 x 740	x 1,750 x 740
			67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)
		in.	x 48-1/16 x 29-3/16	x 68-15/16 x 29-3/16	x 68-15/16 x 29-3/16	x 68-15/16 x 29-3/16
Protection	High pressure pro	otection			High pressure sensor, High press	
devices	Inverter circuit (CO			Over-current protection	Over-heat protection, 0	
	Compressor	···· // //////	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
	Fan motor		Over-current protection	Over-current protection	Over-current protection	Over-current protection
Refrigerant	Type x original ch	arde	R410A x 10.3 kg (23 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)
Net weight	1.720 X 01.91101 01	kg (lbs)	246 (543)	321 (708)	321 (708)	321 (708)
Heat exchanger				s fin & copper tube	Salt-resistant cross	
Pipe between unit	High pressure	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed
and distributor	Low pressure	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed	-
Optional parts	Low pressure		Outdoor Twinning k Joint: CMY-Y102SS-G2,CM Main BC controller:	t: CMY-R200XLVBK Y-Y102LS-G2,CMY-R160-J1 CMB-P1016V-HA1 ,108V-GB1,CMB-P1016V-HB1	Outdoor Twinning ki Joint: CMY-Y102SS-G2,CM' Main BC controller: Sub BC controller: CMB-P104,	Y-Y102LS-G2,CMY-R160-J1 CMB-P1016V-HA1

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)





Model			PURY-EP200YLM-A (-BS)	PURY-EP250YLM-A (-BS)	PURY-EP300YLM-A (-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	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	22.4	28.0	33.5
(Nominal)	*1	BTU / h	76.400	95,500	114,300
()	Power input	kW	5.48	7.25	9.20
	Current input	Α	9.2-8.7-8.4	12.2-11.6-11.2	15.5-14.7-14.2
	EER	kW / kW	4.08	3.86	3.64
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling *3	Outdoor	D.B.	-5.0~46.0°C (23~115°F)	-5.0~46.0°C (23~115°F)	-5.0~46.0°C (23~115°F)
Heating capacity	*2	kW	25.0	31.5	37.5
(Nominal)	*2	BTU / h	85.300	107,500	128.000
()	Power input	kW	6.41	8.45	9.97
	Current input	A	10.8-10.2-9.9	14.2-13.5-13.0	16.8-15.9-15.4
	COP	kW/kW	3.90	3.72	3.76
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
heating *3		W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit	Total capacity		50~150%	50~150% of outdoor unit capacity	50~150% of outdoor unit capacity
connectable	Model / Quantity		P15~P250/1~20	P15~P250/1~25	P15~P250/1~30
Sound pressure le					
(measured in aned		dB <a>	59	60	62.5
Sound power leve (measured in ane		dB <a>	82.5	83.5	86
Refrigerant piping		mm (in.)	15.88 (5/8) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed
diameter	Low pressure	mm (in.)	19.05 (3/4) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m³/min	185	185	230
		L/s	3.083	3,083	3.833
		cfm	6.532	6.532	8.121
	Driving mechanis	m	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1
*4	External static pro	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	5.6	6.9	8.1
	Case heater	kW	_	_	_
External finish			Pre-coated galvanized steel sheets	Pre-coated galvanized steel sheets	Pre-coated galvanized steel sheets
			(+powder coating for -BS type)	(+powder coating for -BS type)	(+powder coating for -BS type)
			<munsell 1="" 5y="" 8="" or="" similar=""></munsell>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>
External dimensio	n HxWxD	mm	1,710 (1,650 without legs) x 920 x 740	1,710 (1,650 without legs) x 920 x 740	1,710 (1,650 without legs) x 1,220 x 740
		in.	67-3/8 (65 without legs) x 36-1/4 x 29-3/16	67-3/8 (65 without legs) x 36-1/4 x 29-3/16	67-3/8 (65 without legs) x 48-1/16 x 29-3/16
Protection devices	High pressure pro	otection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	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 (CO	MP./FAN)	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection
	Fan motor		Over-current protection	Over-current protection	Over-current protection
Refrigerant	Type x original ch		R410A x 8.5 kg (19 lbs)	R410A x 8.5 kg (19 lbs)	R410A x 9.3 kg (21 lbs)
Net weight		kg (lbs)	218 (481)	218 (481)	260 (574)
Heat exchanger			Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube
Optional parts			Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1	Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1	Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1
			BC controller: CMB-P104,105,106,108,1010,1013,1016V-G1	BC controller: CMB-P104,105,106,108,1010,1013,1016V-G1	BC controller: CMB-P104,105,106,108,1010,1013,1016V-G1
			Main BC controller: CMB-P108,1010,1013,1016V-GA1 Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1	Main BC controller: CMB-P108,1010,1013,1016V-GA1 Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1	Main BC controller: CMB-P108,1010,1013,1016V-GA1 Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)







Model			PURY-EP350YLM-A (-BS)	PURY-EP400YLM-A (-BS)	PURY-EP450YLM-A (-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	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	40.0	45.0	50.0
(Nominal)	*1	BTU / h	136,500	153,500	170,600
	Power input	kW	12.57	12.56	14.83
	Current input	A	21.2-20.1-19.4	21.2-20.1-19.4	25.0-23.7-22.9
	EER	kW / kW	3.18	3.58	3.37
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling *3	Outdoor	D.B.	-5.0~46.0°C (23~115°F)	-5.0~46.0°C (23~115°F)	-5.0~46.0°C (23~115°F)
Heating capacity	*2	kW	45.0	50.0	56.0
(Nominal)	*2	BTU / h	153,500	170,600	191,100
` '	Power input	kW	12.93	13.40	15.86
	Current input	Α	21.8-20.7-19.9	22.6-21.4-20.7	26.7-25.4-24.5
	COP	kW / kW	3.48	3.73	3.53
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit	Total capacity		50~150% of outdoor unit capacity	50~150% of outdoor unit capacity	50~150% of outdoor unit capacity
connectable	Model / Quantity		P15~P250/1~35	P15~P250/1~40	P15~P250/1~45
Sound pressure le					
(measured in aneo		dB <a>	62.5	62.5	62.5
Sound power leve	1				
(measured in aneo		dB <a>	86	86	86
	efrigerant piping High pressure mm (in.		19.05 (3/4) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed
diameter	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 1	Propeller fan x 2	Propeller fan x 2
	Air flow rate	m ³ /min	230	320	320
		L/s	3.833	5,333	5,333
		cfm	8,121	11.299	11.299
	Driving mechanis	-	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 2	0.92 x 2
*4	External static press.		0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
Comproceed	Starting method		Inverter	Inverter	Inverter
	Motor output kW		10.5	10.9	12.4
	Case heater	kW	-	-	-
External finish	oudo noutor		Pre-coated galvanized steel sheets	Pre-coated galvanized steel sheets	Pre-coated galvanized steel sheets
			(+powder coating for -BS type)	(+powder coating for -BS type)	(+powder coating for -BS type)
			<munsell 1="" 5y="" 8="" or="" similar=""></munsell>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>
External dimension	n HxWxD	mm	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,750 x 740	1,710 (1,650 without legs) x 1,750 x 740
		in.	67-3/8 (65 without legs) x 48-1/16 x 29-3/16		67-3/8 (65 without legs) x 68-15/16 x 29-3/16
Protection	High pressure pro	otection	High pressure sensor, High pressure switch	High pressure sensor, High pressure switch	High pressure sensor, High pressure switch
devices	0		at 4.15 MPa (601 psi)	at 4.15 MPa (601 psi)	at 4.15 MPa (601 psi)
	Inverter circuit (CO	MP./FAN)	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection
	Fan motor		Over-current protection	Over-current protection	Over-current protection
Refrigerant	Type x original ch	narge	R410A x 9.3 kg (21 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)
Net weight		kg (lbs)	260 (574)	338 (746)	338 (746)
Heat exchanger		/	Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube
Optional parts			Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1 BC controller: CMB-P104,105,106,108,1010,1013,1016V-G1 Main BC controller: CMB-P108,1010,1013,1016V-GB1 sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1	Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1 Main BC controller: CMB-P108,1010,1013,1016V-GA1 Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1	Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1 Main BC controller: CMB-P108,1010,1013,1016V-GA1 Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1
				1	

Notes:

*1,*2 Nominal conditions

	Indoor Outdoor		Pipe length	Level difference	
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)	
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)	



Specifications

Model			PURY-EP500	YSLM-A (-BS)	PURY-EP550	YSLM-A (-BS)	PURY-EP600	YSLM-A (-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	3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity	*1	kW	. 50	5.0	. 63	3.0	69	9.0
(Nominal)	*1	BTU / h	191	,100	215	,000	235.400	
,	Power input	kW	14	.97	17	.35	19	.54
	Current input	Α	25.2-24	4.0-23.1	29.2-27	7.8-26.8	32.9-3	1.3-30.2
	EER	kW / kW		74		63		53
Temp. range of	Indoor	W.B.	15.0~24.0°	C (59~75°F)	15.0~24.0°	C (59~75°F)	15.0~24.0°	C (59~75°F)
cooling *3	Outdoor	D.B.		(23~115°F)		; (23~115°F)		C (23~115°F)
Heating capacity	*2			3.0		9.0		6.5
(Nominal)		BTU / h		.000		.400		.000
(•••••••)	Power input	kW		.93		.44		.34
	Current input	A		7.1-26.1		9.5-28.5		2.6-31.4
	COP	kW / kW		72		74		76
Temp. range of	Indoor	D.B.		C (59~81°F)	15.0~27.0°			C (59~81°F)
	Outdoor	W.B.		C (-4~60°F)	-20.0~15.5°			°C (-4~60°F)
Indoor unit	Total capacity			door unit capacity		door unit capacity		door unit capacity
connectable	Model / Quantity			50/1~50		50/2~50		50/2~50
Sound pressure le		dB <a>		3		1.5		
(measured in ane Sound power leve		UD <a>		13	02	4.0	65.5	
(measured in ane		dB <a>	86	6.5	88		89	
	Refrigerant piping High pressure mm (in.)		22.2 (7/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed	
diameter					28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed	
Set Model	Low pressure		20.00 (1-1	/o) Diazeu	20.00 (1-1	/o) Diazeu	20.00 (1-1	/o) Diazeu
Model					PURY-EP250YLM-A (-BS)			
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m³/min	185	185	185	230	230	230
	All now rate	L/s	3,083	3,083	3,083	3,833	3,833	3,833
		cfm	6,532	6.532	6,532	8,121	8.121	8,121
	Driving mechanis			rect-driven by motor		rect-driven by motor	- 1	rect-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
*4	External static pr		0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity	000.		metic compressor		metic compressor		metic compressor
Compressor	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	6.9	6.9	6.9	8.1	8.1	8.1
	Case heater	kW	-	-	-	-	-	-
External finish			(+powder coati	nized steel sheets ng for -BS type) / 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>	
External dimension	n HxWxD	mm	legs) x 920 x 740	1,710 (1,650 without legs) x 920 x 740	legs) x 920 x 740	1,710 (1,650 without legs) x 1,220 x 740	legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,220 x 740
1		in.		67-3/8 (65 without legs)		67-3/8 (65 without legs)		67-3/8 (65 without legs)
	1		x 36-1/4 x 29-3/16	x 36-1/4 x 29-3/16	x 36-1/4 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16
Protection devices	High pressure pre	otection		, High pressure switch Pa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			, High pressure switch Pa (601 psi)
	Inverter circuit (CO	MP./FAN)	Over-heat protection,	Over-current protection	Over-heat protection,	Over-current protection	Over-heat protection,	Over-current protection
	Compressor	, í	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
	Fan motor			nt protection		nt protection		nt protection
Refrigerant	Type x original ch	narge			R410A x 8.5 kg (19 lbs)			
Net weight		kg (lbs)	218 (481)	218 (481)	218 (481)	260 (574)	260 (574)	260 (574)
		/						· · · · · ·

 Salt-resistant cross fin & aluminium tube
 Salt-resistant cross fin & aluminium tube
 Salt-resistant cross fin & aluminium tube

 19.05 (3/4) Brazed
 Heat exchanger
 Pipe between unit
 High pressure
 mm (in.)

 and distributor
 Low pressure
 mm (in.)
 22.2 (7/8) Brazed 22.2 (7/8) Brazed 22.2 (7/8) Brazed Outdoor Twinning kit: CMY-ER100VBK-A Joint: CMY-Y102S-G2,CMY-Y102L-G2,CMY-R160-J1 Outdoor Twinning kit: CMY-ER200VBK Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1 Outdoor Twinning kit: CMY-ER200VBK Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1 Optional parts
 Main BC controller: CMB-P108,1010,1013,1016V-GA1
 Main BC controller: CMB-P108,1010,1013,1016V-GA1

 Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1
 Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1

Notes:

*1,*2 Nominal conditions

	Indoor Outdoor		Pipe length	Level difference	
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m (24-9/16ft.)	0m (0ft.)	
Cooling	(81°F DB/66°F WB)	(95°F DB/75°F WB)	7.511 (24-5/1011.)	0111 (012.)	
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)	

*3 -5°C DB (23°F DB) / -6°C WB (21°F WB) to 21°C DB (70°F DB) / 15.5°C WB (60°F WB) with cooling/heating mixed operation.

*4 External static pressure option is available (30Pa, 60Pa / 3.1mmHzO, 6.1mmHzO). *Nominal condition *1,*2 are subject to JIS B8615-1. *Due to continuing improvement, above specification may be subject to change without notice.





► Specifications

Model			PURY-EP650YSLM-A (-BS)	PURY-EP700YSLM-A (-BS)	PURY-EP750YSLM-A (-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	3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity	*1	kW	73.0	80.0	85.0
(Nominal)	*1	BTU / h	249,100	273,000	290,000
	Power input	kW	22.12	25.97	25.99
	Current input	A	37.3-35.4-34.1	43.8-41.6-40.1	43.8-41.6-40.1
	EER	kW / kW	3.30	3.08	3.27
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling *3	Outdoor	D.B.	-5.0~46.0°C (23~115°F)	-5.0~46.0°C (23~115°F)	-5.0~46.0°C (23~115°F)
Heating capacity	*2	kW	81.5	88.0	95.0
(Nominal)	*2	BTU / h	278,100	300,300	324,100
	Power input	kW	22.51	25.28	26.38
	Current input	A	38.0-36.1-34.7	42.6-40.5-39.0	44.5-42.3-40.7
	COP	kW / kW	3.62	3.48	3.60
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
heating *3	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit	Total capacity		50~150% of outdoor unit capacity	50~150% of outdoor unit capacity	50~150% of outdoor unit capacity
connectable Model / Quan			P15~P250/2~50	P15~P250/2~50	P15~P250/2~50
Sound pressure level (measured in anechoic room)		dB <a>	65.5	65.5	65.5
Sound power level (measured in anechoic room)		dB <a>	89	89	89
Refrigerant piping	High pressure	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
diameter	Low pressure	mm (in.)	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed	34.93 (1-3/8) Brazed
Set Model					
Model			DUDV_ED200VI M_A (_BC) DUDV_ED250VI M_A (_BC)	PURY-EP350VI M-A (-BS) PURY-EP350VI M-A (-BS)	DUDY ED250VI M & (DC) DUDY ED400VI M & (DC

Model			PURY-EP300YLM-A (-BS)	PURY-EP350YLM-A (-BS)	PURY-EP350YLM-A (-BS)	PURY-EP350YLM-A (-BS)	PURY-EP350YLM-A (-BS)	PURY-EP400YLM-A (-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2
	Air flow rate	m³/min	230	230	230	230	230	320
		L/s	3,833	3,833	3,833	3,833	3,833	5,333
		cfm	8,121	8,121	8,121	8,121	8,121	11,299
	Driving mechanis	m	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 2
*4	External static pro	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	8.1	10.5	10.5	10.5	10.5	10.9
	Case heater	kW	-	-	-	-	-	-
External finish				nized steel sheets		nized steel sheets		nized steel sheets
				ng for -BS type)	(+powder coating for -BS type)		(+powder coating for -BS type)	
				' 8/1 or similar>		' 8/1 or similar>		' 8/1 or similar>
External dimensio	n HxWxD	mm		1,710 (1,650 without		1,710 (1,650 without		1,710 (1,650 without
			legs) x 1,220 x 740	0, ,	legs) x 1,220 x 740	0, ,	legs) x 1,220 x 740	0, ,
		in.			67-3/8 (65 without legs)		67-3/8 (65 without legs)	
			x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 68-15/16 x 29-3/16
Protection	High pressure pro	otection			High pressure sensor, High pressure switch	High pressure sensor, High pressure switch		
devices	8 1 1		at 4.15 MP		at 4.15 MPa (601 psi)		at 4.15 MPa (601 psi)	
	Inverter circuit (CO	MP./FAN)	Over-heat protection, (Over-heat protection, (Over-current protection
	Compressor			Over-heat protection	Over-heat protection			Over-heat protection
	Fan motor			nt protection	Over-current protection		Over-current protection	
Refrigerant	Type x original ch				R410A x 9.3 kg (21 lbs)			
Net weight		kg (lbs)	260 (574)	260 (574)	260 (574)	260 (574)	260 (574)	338 (746)
Heat exchanger	T			fin & aluminium tube		fin & aluminium tube		fin & aluminium tube
Pipe between unit		mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	22.2 (7/8) Brazed
and distributor	Low pressure	mm (in.)	22.2 (7/8) Brazed	-	28.58 (1-1/8) Brazed	-	28.58 (1-1/8) Brazed	
Optional parts				it: CMY-ER200VBK		it: CMY-ER200VBK		it: CMY-ER200VBK
			Joint: CMY-Y102SS-G2,CM		Joint: CMY-Y102SS-G2,CM		Joint: CMY-Y102SS-G2,CM	
			Main BC controller: CMB-P		Main BC controller:			CMB-P1016V-HA1
			Sub BC controller: CMB-P104	,108V-GB1,CMB-P1016V-HB1	Sub BC controller: CMB-P104	,108V-GB1,CMB-P1016V-HB1	Sub BC controller: CMB-P104	,108V-GB1,CMB-P1016V-HB1

Notes:

*1,*2 Nominal conditions

	Indoor Outdoor		Pipe length	Level difference	
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)	
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)	





Model			PURY-EP800YSLM-A (-BS)	PURY-EP850YSLM-A (-BS)	PURY-EP900YSLM-A (-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	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	90.0	96.0	101.0
(Nominal)	*1	BTU / h	307,100	327,600	344,600
	Power input	kW	25.93	28.48	30.98
	Current input	A	43.7-41.5-40.0	48.0-45.6-44.0	52.2-49.6-47.8
	EER	kW / kW	3.47	3.37	3.26
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling *3	Outdoor	D.B.	-5.0~46.0°C (23~115°F)	-5.0~46.0°C (23~115°F)	-5.0~46.0°C (23~115°F)
Heating capacity	*2	kW	100.0	108.0	113.0
(Nominal)	*2	BTU / h	341,200	368,500	385,600
	Power input	kW	26.80	29.75	32.01
	Current input A		45.2-42.9-41.4	50.2-47.7-45.9	54.0-51.3-49.4
	COP	kW / kW	3.73	3.63	3.53
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
heating *3	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit	Total capacity		50~150% of outdoor unit capacity	50~150% of outdoor unit capacity	50~150% of outdoor unit capacity
connectable	Model / Quantity		P15~P250/2~50	P15~P250/2~50	P15~P250/2~50
Sound pressure level (measured in anechoic room)		dB <a>	65.5	65.5	65.5
Sound power level (measured in anechoic room)		dB <a>	89	89	89
Refrigerant piping	High pressure	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
diameter	Low pressure	mm (in.)	34.93 (1-3/8) Brazed	41.28 (1-5/8) Brazed	41.28 (1-5/8) Brazed
Set Model					
Model			PURY-EP400YLM-A (-BS) PURY-EP400YLM-A (-BS)	PURY-EP400YLM-A (-BS) PURY-EP450YLM-A (-BS)	PURY-EP450YLM-A (-BS) PURY-EP450YLM-A (-BS)

Model			PURY-EP400YLM-A (-BS)	PURY-EP400YLM-A (-BS)	PURY-EP400YLM-A (-BS)	PURY-EP450YLM-A (-BS)	PURY-EP450YLM-A (-BS)	PURY-EP450YLM-A (-BS)
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Air flow rate	m³/min	320	320	320	320	320	320
		L/s	5,333	5,333	5,333	5,333	5,333	5,333
		cfm	11,299	11,299	11,299	11,299	11,299	11,299
	Driving mechanis	m	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2
*4	External static pre	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	10.9	10.9	10.9	12.4	12.4	12.4
	Case heater	kW	-	-	-	-	-	-
External finish			Pre-coated galvar	nized steel sheets	Pre-coated galvar	nized steel sheets	Pre-coated galva	nized steel sheets
			(+powder coating		(+powder coating for -BS type)		(+powder coating for -BS type)	
			<munsell 5y<="" td=""><td>' 8/1 or similar></td><td><munsell 5y<="" td=""><td>' 8/1 or similar></td><td><munsell 5y<="" td=""><td>' 8/1 or similar></td></munsell></td></munsell></td></munsell>	' 8/1 or similar>	<munsell 5y<="" td=""><td>' 8/1 or similar></td><td><munsell 5y<="" td=""><td>' 8/1 or similar></td></munsell></td></munsell>	' 8/1 or similar>	<munsell 5y<="" td=""><td>' 8/1 or similar></td></munsell>	' 8/1 or similar>
External dimensio	n HxWxD	mm	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without
			legs) x 1,750 x 740	legs) x 1,750 x 740	legs) x 1,750 x 740	legs) x 1,750 x 740	legs) x 1,750 x 740	legs) x 1,750 x 740
		in.	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)
			x 68-15/16 x 29-3/16	x 68-15/16 x 29-3/16	x 68-15/16 x 29-3/16	x 68-15/16 x 29-3/16	x 68-15/16 x 29-3/16	x 68-15/16 x 29-3/16
Protection	High pressure pro	otection			High pressure sensor, High pressure switch			
devices			at 4.15 MP		at 4.15 MPa (601 psi)		at 4.15 MPa (601 psi)	
	Inverter circuit (CO	MP./FAN)	Over-heat protection, 0		Over-heat protection, 0			Over-current protection
	Compressor		Over-heat protection		Over-heat protection		Over-heat protection	Over-heat protection
	Fan motor		Over-currer		Over-current protection		Over-current protection	
Refrigerant	Type x original ch	arge	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)		R410A x 11.8 kg (27 lbs)
Net weight		kg (lbs)	338 (746)	338 (746)	338 (746)	338 (746)	338 (746)	338 (746)
Heat exchanger		Salt-resistant cross	fin & aluminium tube	Salt-resistant cross	fin & aluminium tube	Salt-resistant cross	fin & aluminium tube	
Pipe between unit	High pressure	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed
and distributor	Low pressure	mm (in.)	28.58 (1-1/8) Brazed	-	28.58 (1-1/8) Brazed	-	28.58 (1-1/8) Brazed	-
Optional parts				it: CMY-ER200VBK		it: CMY-ER200VBK		it: CMY-ER200VBK
			Joint: CMY-Y102SS-G2,CM		Joint: CMY-Y102SS-G2,CM			Y-Y102LS-G2,CMY-R160-J1
			Main BC controller:		Main BC controller:		Main BC controller:	
			Sub BC controller: CMB-P104	,108V-GB1,CMB-P1016V-HB1	Sub BC controller: CMB-P104	,108V-GB1,CMB-P1016V-HB1	Sub BC controller: CMB-P104	,108V-GB1,CMB-P1016V-HB1

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 -5°C DB (23°F DB) / -6°C WB (21°F WB) to 21°C DB (70°F DB) / 15.5°C WB (60°F WB) with cooling/heating mixed operation. *4 External static pressure option is available (30Pa, 60Pa / 3.1mmHzO, 6.1mmHzO). *Nominal condition *1,*2 are subject to JIS B8615-1. *Due to continuing improvement, above specification may be subject to change without notice.



Outdoor Unit

HEAT SOURCE UNIT WR2 (Heat Recovery) Series PQRY-P YHM-A



► Specifications

Model			PQRY-P200YHM-A	PQRY-P250YHM-A	PQRY-P300YHM-A
Power source			3-phase 4-wire 380-400-415V 50/60Hz	3-phase 4-wire 380-400-415V 50/60Hz	3-phase 4-wire 380-400-415V 50/60Hz
Cooling capacity	*1	kW	22.4	28.0	33.5
(Nominal)	*1	BTU / h	76,400	95,500	114,300
	Power input	kW	3.96	5.51	7.44
	Current input	A	6.6-6.3-6.1	9.3-8.8-8.5	12.5-11.9-11.5
		kW / kW	5.65	5.08	4.50
Temp. range of	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
cooling	Circulating water	°C	10.0~45.0°C(50~113°F)	10.0~45.0°C(50~113°F)	10.0~45.0°C(50~113°F)
Heating capacity	*2		25.0	31.5	37.5
(Nominal)		BTU / h	85,300	107,500	128,000
(i torininai)	Power input	kW	4.12	5.80	8.15
	Current input	A	6.9-6.6-6.3	9.7-9.3-8.9	13.7-13.0-12.5
		kW / kW	6.06	5.43	4.60
Temp. range of	Indoor	D.B.	15.0~27.0°C(59~81°F)	5.43 15.0~27.0°C(59~81°F)	4.60 15.0~27.0°C(59~81°F)
heating	Circulating water		10.0~45.0°C(50~113°F)	10.0~45.0°C(50~113°F)	10.0~45.0°C(59~81 P)
Indoor unit	Total capacity	10			
	Model / Quantity		50~150 % of heat source unit capacity	50~150 % of heat source unit capacity	50~150 % of heat source unit capacity
Sound pressure le		-	P15~P250 / 1~20	P15~P250 / 1~25	P15~P250 / 1~30
(measured in aneo	choic room)	dB <a>	47	49	50
Refrigerant piping	High pressure	mm (in.)	15.88(5/8) Brazed	19.05(3/4) Brazed	19.05(3/4) Brazed
diameter [O.D.]	Low pressure	mm (in.)	19.05(3/4) Brazed	22.2(7/8) Brazed	22.2(7/8) Brazed
Circulating water	Water flow rate	m³ / h	5.76	5.76	5.76
-		L/min	96	96	96
		cfm	3.4	3.4	3.4
	Pressure drop	kPa	17	17	17
	Operating volume range	m³ / h	4.5 ~ 7.2	4.5 ~ 7.2	4.5 ~ 7.2
Compressor	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	4.6	6.3	7.4
	Case heater	kW	0.035(240 V)	0.035(240 V)	0.035(240 V)
External finish			Acrylic painted steel plate	Acrylic painted steel plate	Acrylic painted steel plate
External dimension	n HxWxD	mm	1,160(1,100 without legs) x 880 x 550	1,160(1,100 without legs) x 880 x 550	1,160(1,100 without legs) x 880 x 550
		in.	45-11/16(43-5/16 without legs) x 34-11/16 x 21-11/16	45-11/16(43-5/16 without legs) x 34-11/16 x 21-11/16	45-11/16(43-5/16 without legs) x 34-11/16 x 21-11/16
Protection	High pressure pro	otection		High pressure sensor, High pressure switch at 4.15MPa (601 psi)	
devices	Inverter circuit (C			Over-heat protection, Over-current protection	
	Compressor	0.000.7	Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant	Type x original ch	arde	R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)
Net weight	1 JPC A Unginal CI	kg (lbs)	181(400)	181(400)	181(400)
Heat exchanger		ny (ins)	plate type	plate type	plate type
neat exchangel	Water volume in plate	L	5.0	5.0	5.0
	Water pressure Max.	MPa	2.0	2.0	2.0
Optional parts			Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2. CMY-R160-J1	Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-R160-J1	Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-Y202S-G2.CMY-R160-J1

Notes:

*1,*2 Nominal conditions

	Indoor	Water temperature	Pipe length	Level difference
Cooling	27°CD.B./19°CW.B. (81°FD.B./66°FW.B.)	30°C (86°F)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°CD.B. (68°FD.B.)	20°C (68°F)		

*3 The ambient temperature of the heat source unit needs to be kept below 40°CD.B.

¹³ The ambient temperature of the heat source unit needs to be kept below 40°C0.B.
¹⁴ The ambient relative humidity of the heat source unit needs to be kept below 80%.
¹⁵ The heat source Unit should not be installed at outdoor.
¹⁶ Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
¹⁷ T Be sure to provide interlocking for the unit operation and water circuit.
¹⁸ Nominal condition ¹¹, ¹² are subject to JIS B8615-1.
¹⁹ Due to continuing improvement, above specification may be subject to change without notice.

HEAT SOURCE UNIT WR2 (Heat Recovery) Series PQRY-P YSHM-A



► Specifications

Model			PQRY-P40	0YSHM-A	PQRY-P4	50YSHM-A	PQRY-P50	0YSHM-A
Power source			3-phase 4-wire 380	-400-415V 50/60Hz	3-phase 4-wire 380	-400-415V 50/60Hz		-400-415V 50/60Hz
Cooling capacity	*1	kW		5.0).0		5.0
(Nominal)	*1	BTU / h	153	.500	170	,600	191	100
,	Power input	kW		32		94		57
	Current input	A	14.0-13			5.9-15.3		5.5-17.8
	EER	kW / kW		40		03		84
Temp. range of	Indoor	W.B.	15.0~24.0°			C(59~75°F)	15.0~24.0°	
cooling	Circulating water	°C	10.0~45.0°C			C(50~113°F)	10.0~45.0°0	
Heating capacity	*2	kW).0		5.0		.0
(Nominal)		BTU / h		.600		,100		.000
(Norminal)	Power input	kW		65		.42		.06
	Current input	A		3.8-13.3		5.7-16.1		.3-18.6
	COP	kW / kW	14.0-13			37		22
Temp. range of	Indoor	D.B.				37 C(59~81°F)	15.0~27.0°	
	Circulating water	<u>р.в.</u> °С						
heating		°С	10.0~45.0°C			C(50~113°F)	10.0~45.0°C	
Indoor unit	Total capacity		50~150 % of heat s			source unit capacity		ource unit capacity
connectable	Model / Quantity		P15~P25	50 / 1~40	P15~P2	50 / 1~45	P15~P250 / 1~50 (Connectable	branch pipe number is max. 48.
Sound pressure le (measured in ane		dB <a>	5	0	5	1	5	2
Refrigerant piping	High pressure	mm (in.)	22.2(7/8) Brazed	22.2(7/8) Brazed	22.2(7/8) Brazed
diameter [O.D.]	Low pressure	mm (in.)	28.58(1-1)	/8) Brazed	28.58(1-1	/8) Brazed	28.58(1-1	(8) Brazed
Set Model								
Model			PQRY-P200YHM-A	PQRY-P200YHM-A	PQRY-P250YHM-A	PQRY-P200YHM-A	PQRY-P250YHM-A	PQRY-P250YHM-A
Circulating water	Water flow rate	m ³ / h	5.76 -	+ 5.76	5.76 -	+ 5.76	5.76 -	- 5.76
-	L/mi		96 -	+ 96	96 -	+ 96	96 -	- 96
		cfm	3.4 -	+ 3.4	3.4 -	+ 3.4	3.4 -	+ 3.4
	Pressure drop	kPa	17	17	17	17	17	17
	Operating volume range	m³ / h	4.5 + 4.5 -	- 7.2 + 7.2	4.5 + 4.5	~ 7.2 + 7.2	4.5 + 4.5 -	- 7.2 + 7.2
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
Comproceed	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	4.6	4.6	6.3	4.6	6.3	6.3
	Case heater	kW	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.035(240 V)
External finish	Case neater	NVV.		ed steel plate		ed steel plate		ed steel plate
External dimensio			1,160(1,100 without		1,160(1,100 without		1,160(1,100 without	
External dimensio		mm	legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550
			45-11/16(43-5/16 without	45-11/16(43-5/16 without	45-11/16(43-5/16 without	45-11/16(43-5/16 without	45-11/16(43-5/16 without	45-11/16(43-5/16 without
		in.		legs) x 34-11/16 x 21-11/16		legs) x 34-11/16 x 21-11/16		
Protection	High pressure pro	otection	High pressure sensor, High pres			sure switch at 4.15MPa (601 psi)	High pressure sensor, High pres	
devices	Inverter circuit (C				Over-heat protection,			
001000	Compressor	01011.)		protection		protection		protection
Refrigerant	Type x original ch	argo			R410A x 5.0kg (12lbs)			
Net weight	Type x original ci							
Heat exchanger		kg (lbs)	181(400)	181(400)	181(400)	181(400)	181(400)	181(400)
meat exchanger	Motor volume in		plate type	plate type	plate type	plate type	plate type	plate type
	Water volume in plate	L	5.0	5.0	5.0	5.0	5.0	5.0
	Water pressure Max.	MPa	2.0	2.0	2.0	2.0	2.0	2.0
Optional parts			Heat Source Twinnin	g kit: CMY-Q100VBK	Heat Source Twinnin	g kit: CMY-Q100VBK	Heat Source Twinnin	g kit: CMY-Q100VBK
			Joint: CMY-Y102SS-G2.CMY-Y102L					

Notes:

*1,*2 Nominal conditions

	Indoor	Water temperature	Pipe length	Level difference	
Cooling	27°CD.B./19°CW.B. (81°FD.B./66°FW.B.)	30°C (86°F)	7.5m (24-9/16ft.)	0m (0ft.)	
Heating	20°CD.B. (68°FD.B.)	20°C (68°F)			

The ambient temperature of the heat source unit needs to be kept below 40°CD.B.
 4 The ambient relative humidity of the heat source unit needs to be kept below 80%.
 5 The heat source Unit should not be installed at outdoor.
 *6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
 *7 Fo sure to provide interlocking or the unit operation and water circuit.
 *Nominal condition *1,*2 are subject to JIS B8615-1.
 *Due to continuing improvement, above specification may be subject to change without notice.



HEAT SOURCE UNIT WR2 (Heat Recovery) Series PQRY-P YSHM-A





Model			PQRY-P5	50YSHM-A	PQRY-P60	00YSHM-A
Power source			3-phase 4-wire 380	-400-415V 50/60Hz	3-phase 4-wire 380	-400-415V 50/60Hz
Cooling capacity	*1	kW	63	3.0	69	9.0
(Nominal)	*1	BTU / h	215	,000	235	,400
	Power input	kW	13	.60	15	.62
	Current input	А	22.9-21	.8-21.0	26.3-25	5.0-24.1
	EER	kW / kW		63	4.	41
Temp. range of	Indoor	W.B.	15.0~24.0°	C(59~75°F)	15.0~24.0°	C(59~75°F)
cooling	Circulating water	°C	10.0~45.0°0	C(50~113°F)	10.0~45.0°C	C(50~113°F)
Heating capacity	*2	kW	69	0.0	76	0.5
(Nominal)	*2	BTU / h	235	,400	261	,000
· /	Power input	kW		.65		.12
	Current input	А		3.4-22.6		7.4-26.4
	COP	kW / kW		70		46
Temp. range of	Indoor	D.B.	15.0~27.0°		15.0~27.0°	
heating	Circulating water	°C	10.0~45.0°0		10.0~45.0°C	
Indoor unit	Total capacity			source unit capacity		source unit capacity
connectable	Model / Quantity			branch pipe number is max. 48.)	P15~P250 / 2~50 (Connectable	
Sound pressure le	evel				,	, ,
(measured in ane	choic room)	dB <a>	52	2.5	5	3
Refrigerant piping	High pressure	mm (in.)	28.58(1-1	/8) Brazed	28.58(1-1)	/8) Brazed
diameter [O.D.]	Low pressure	mm (in.)		/8) Brazed		/8) Brazed
Set Model			(-		. -	
Model			PQRY-P300YHM-A	PQRY-P250YHM-A	PQRY-P300YHM-A	PQRY-P300YHM-A
Circulating water	Water flow rate	m³ / h		+ 5.76		+ 5.76
- · · · · · · · · · · · · · · · · · · ·		L/min		+ 96		+ 96
		cfm		+ 3.4		+ 3.4
	Pressure drop	kPa	17	17	17	17
	Operating volume range	m³ / h	4.5 + 4.5	~ 7.2 + 7.2	4.5 + 4.5 -	~ 7.2 + 7.2
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	7.4	6.3	7.4	7.4
	Case heater	kW	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.035(240 V)
External finish				ed steel plate		ed steel plate
External dimension	n HxWxD	mm	1,160(1,100 without legs) x 880 x 550	1,160(1,100 without legs) x 880 x 550	1,160(1,100 without legs) x 880 x 550	1,160(1,100 without legs) x 880 x 550
		in.		45-11/16(43-5/16 without legs) x 34-11/16 x 21-11/16	45-11/16(43-5/16 without legs) x 34-11/16 x 21-11/16	
Protection	High pressure pro	otection		sure switch at 4.15MPa (601 psi)		sure switch at 4.15MPa (601 psi)
devices	Inverter circuit (C			Over-current protection		Over-current protection
	Compressor	,	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant	Type x original ch	arge	R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)
Net weight		kg (lbs)	181(400)	181(400)	181(400)	181(400)
Heat exchanger			plate type	plate type	plate type	plate type
	Water volume in plate	L	5.0	5.0	5.0	5.0
	Water pressure Max.	MPa	2.0	2.0	2.0	2.0
Optional parts				g kit: CMY-Q100VBK S-G2,CMY-Y202S-G2,CMY-R160-J1		g kit: CMY-Q100VBK S-G2,CMY-Y202S-G2,CMY-R160-J1
				,		

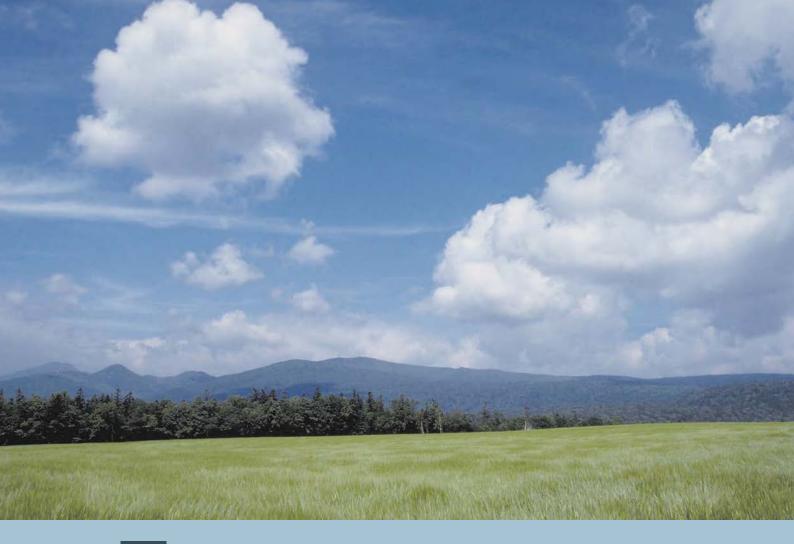
Notes:

*1,*2 Nominal conditions

	Indoor	Water temperature	Pipe length	Level difference	
Cooling	27°CD.B./19°CW.B. (81°FD.B./66°FW.B.)	30°C (86°F)	7.5m (24-9/16ft.)	0m (0ft.)	
Heating	20°CD.B. (68°FD.B.)	20°C (68°F)			

The ambient temperature of the heat source unit needs to be kept below 40°CD.B.
 4 The ambient relative humidity of the heat source unit needs to be kept below 80%.
 5 The heat source Unit should not be installed at outdoor.
 *6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
 *7 Fo sure to provide interlocking or the unit operation and water circuit.
 *Nominal condition *1,*2 are subject to JIS B8615-1.
 *Due to continuing improvement, above specification may be subject to change without notice.





I ndoor Unit

- Ceiling cassette type 4-way airflow
- Ceiling cassette type 2-way airflow
- Ceiling cassette type 1-way airflow
- Ceiling concealed type
- Fresh Air Intake type
- Ceiling suspended type
- Wall mounted type
- Floor standing exposed
- Floor mounted concealed type
- BC Controller
- Air to Water unit
- OA Processing Units

Wide Selection of Indoor Units

Тур	е	Model name	Model	P15	P20	P25	
	4-way air flow	PLFY-P VBM-E Page80 - Page81					
Ceiling Cassette		PLFY-P VCM-E2 Page80 - Page81					
	2-way air flow	PLFY-P VLMD-E Page82 - Page83					
	1-way air flow	PMFY-P VBM-E Page84 - Page85					
		PEFY-P VMR-E-L/R Page86 - Page87					
		PEFY-P VMS1(L)-E Page88 - Page89					
Ceiling Concealed	ł	PEFY-P VMA(L)-E Page90 - Page91					
		PEFY-P VMH(S)-E Page92 - Page93					
	Fresh Air Intake	PEFY-P VMH-E-F Page94 - Page95				1 1 1 1 1 1 1 1	
Ceiling Suspende	d	PCFY-P VKM-E Page96 - Page97					
		PKFY-P VBM-E Page98 - Page99					
Wall Mounted		PKFY-P VHM-E Page98 - Page99	-				
		PKFY-P VKM-E Page98 - Page99				1 1 1 1 1 1 1 1	
		PFFY-P VKM-E2 Page100 - Page101					
Floor Standing/ Floor Mounted Co	oncealed	PFFY-P VLEM-E Page102 - Page103					
8		PFFY-P VLRM-E PFFY-P VLRMM-E Page104 - Page105					

P32	P40	P50	P63	P71	P80	D100	P125	D140	D200	P250
132		130	105		100	1100	1125		1200	1230
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INDOOR UNIT Ceiling cassette type 4-way airflow PLFY-P VBM-E Free Sensor PLFY-P VCM-E2



PLFY-P VBM

PLFY-P VCM

The 4-way cassette VBM offers 72 different airflow patterns, making it ideal for applications with ceilings up to 4.2 m (13-13/16ft) in height.



Automatic Air Speed Adjustment

Auto-fan-speed mode enables speedy and comfortable heating during heating startup.

The Auto-fan-speed mode is added to the usual four steps "Low, Mid1, Mid2, High." The Auto-fan-speed mode enables speedy and comfortable air conditioning due to the air flow when starting and slows down when the air conditioning becomes stable. (PLFY-P

VBM-E ONLY) Controls the four fan speed modes automatically Low → Mid1 → Mid2 → High → Auto

* When using a wireless remote controller, initial settings are required.

Draft-less Air Distribution

The horizontal air flow prevents exposure of cooled/warmed air directly at occupants, creating a comfortable environment.

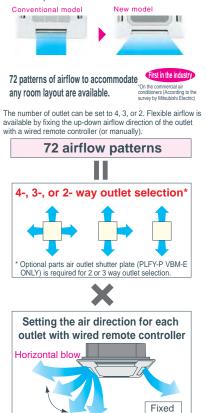


*The ceiling may be smudged at a spot where the supplied airflow is seriously disturbed.

Wide Air Flow (PLFY-P VBM-E ONLY)

Cooling softly with Wide Air Flow

Discharge air reaches wider area and the fan speed is decreased by 20% thanks to the new wide shape air outlet.



Remote controller setting Down blow

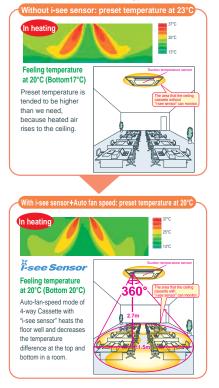
Compact body to match with 2 feets (600mm) x 2 feets (600mm) ceiling design (VCM)



"i-see sensor" can be used with ceiling cassette type 4-way airflow unit. (Option PAC-SA1ME-E, PLFY-VBM-E ONLY)

New 4-way Cassette PLFY-VBM controls the temperature difference at the top and bottom in a room by checking the floor temperature with "i-see sensor". Comfortable air conditioning can be realized smoothly with "sensible temperature control." (Option PAC-SA1ME-E, PLFY-VBM-E ONLY)

Prevents overcooling/overheating, and improves comfort/energy-efficiency





				PLFY-P20VBM-E	PLFY-P25VBM-E	PLFY-P32VBM-E	PLFY-P40VBM-E	PLFY-P50VBM-E	PLFY-P63VBM-E	PLFY-P80VBM-E
Power :	source					1-phase 220	-240V 50Hz / 1-phas	e 220V 60Hz		
Cooling		, *1	kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0
Cooling	g capacity	y *1	BTU/h	7,500	9,600	12,300	15,400	19,100	24,200	30,700
		*1	kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0
Heating	g capacity	y *1	BTU/h	8,500	10,900	13,600	17,100	21,500	27,300	34,100
Power		Cooling	kW	0.03	0.03	0.03	0.04	0.04	0.05	0.07
consum	nption	Heating	kW	0.02	0.02	0.02	0.03	0.03	0.04	0.06
		Cooling	A	0.26	0.26	0.27	0.29	0.29	0.36	0.51
Current	t	Heating	A	0.19	0.19	0.20	0.22	0.22	0.29	0.43
Externa	al finish	Unit				(Salvanized steel she	et		
(Munse	ell No.)	Panel					IUNSELL (6.4Y 8.9/0			
Dimens	sion	Unit	mm(in.)				x 840 (10-3/16 x 33-			
HxW>		Panel	mm(in.)			35 x 950 x	950 (1-3/8 x 37-7/16	5 x 37-7/16)		
		Unit	kg(lbs.)			22 (49)	``	,	23 (51)
Net wei	ight	Panel	kg(lbs.)			()	6 (13)			,
Heat ex	kchanger		5(14)			Cross fin (Aluminum fin and co	pper tube)		
		Quantity					Turbo fan x 1	11		
		*2	m³/min		11-12-13-14		1	-14-16	14-15-16-18	16-18-20-22
Fan	Airflow		L/s		183-200-217-233			-233-267	233-250-267-300	267-300-333-367
	(Lo-Mid1	-Mid2-Hi)	cfm		388-424-459-494			-494-565	494-530-565-636	565-636-706-777
	External sta	atic pressure	Pa				0			
	Туре	- F. 200010	. u				DC motor			
Motor	Output		kW				0.050			
Air filter			N V V				PP Honeycomb			
All liller		0					TT TIONEycomb	ø12.7 (ø1/2) / ø15.88 (ø5/8)		
Dofrigo	ront	Gas (Flare)	mm(in.)		ø12.7	(ø1/2)		(Compatible)	ø15.88	(ø5/8)
	igerant (Tale)					ø6.35 (ø1/4) / ø9.52 (ø3/8)				
pipe dia	ameter	Liquid (Flare)	mm(in.)		ø6.35	(ø1/4)		(Compatible)	⁸⁾ ø9.52 (ø3/8)	
Field de	aia aiaa a	· /	mana (im.)			. ,	O.D. 32 (1-1/4)			
	ain pipe c		mm(in.)				0.D. 32 (1-1/4)			
	ressure le 1-Mid2-Hi)		dB(A)		27-28-29-31	27-28-30-31			28-29-30-32	30-32-35-37
(20 1110		,								
							PLFY-P20VCM-E2	DI EV DOSVOM ED		
Power	source			1-phase 220-240V 50H		FLFT-FT3VGIVI-E2		phase 220-240V 50		
	000.00	*1	kW	11.2	14.0	1.7	2.2	2.8	3.6	4.5
Cooling	g capacit	y *1	BTU/h	38,200	47,800	5,800	7,500	9,600	12,300	15,400
		*1	kW	12.5	16.0	1.9	2.5	3,2	4.0	5.0
Heating	g capacit	ty *1	BTU/h	42,700	54,600	6,500	8,500	10,900	13,600	17,100
Power		Cooling	kW	0.15	0.16	0.04	0.05	0.05	0.06	0.06
consur		Heating	kW	0.14	0.15	0.04	0.05	0.05	0.06	0.06
		Cooling	A	1.00	1.07	0.19	0.23	0.23	0.28	0.28
Curren	it	Heating	А	0.94	1.00	0.19	0.23	0.23	0.28	0.28
Extern	al finish	Unit		Galvanized		2.10		teel sheet with gray		0.20
(Munse		Panel		2417411204		M	UNSELL (6.4Y 8.9/0	• •		
Dimen	,	Unit	mm(in.)	298 x 840 x 840 (11-3	3/4 x 33-1/8 x 33-1/8	101		x 570 (8-1/4 x 22-1/2	2 x 22-1/2)	
HxW		Panel	mm(in.)	35 x 950 x 950 (1-3/8	/			650 (13/16 x 25-5/8	· · · · · · · · · · · · · · · · · · ·	
		Unit	kg(lbs.)	27	,		15.5 (35)	000 (10/10 x 20 0/0	17	(38)
Net we	eight	Panel	kg(lbs.)	6 (10.0 (00)	3 (7)	17	(50)
Heat e	xchange			0(10)	Cross fin /	Aluminum fin and co	()		
		Quantity				01055 111 (Turbo fan x 1			
			m³/min	21-24-27-29	22-25-28-30	8-8.5-9	8-9-10	8-9-10	8-9-11	8-9-11
Fan	(Lo-Mid-	rate *2	L/s	350-400-450-483				133-150-167	133-150-183	
		I-Mid2-Hi)	cfm		777-883-989-1059	133-142-150 283-300-353	133-150-167 283-318-353	283-318-353	283-318-388	133-150-183 283-318-388
		atic pressure	Pa	1-12-0-0-00-000-1024	111-000-308-1009	200-000-000	0	200-010-000	200-010-000	200-010-000
	External etc				notor			hase induction mot	or	
					10101	1-phase induction moto				0.02
Motor	Туре				20	0.008	0.02 0.02			
	Type Output		kW	0.1	20 evcomb	0.008	0.011	0.015 evcomb fabric (long		0.02
Motor Air filte	Type Output			0.1 PP Hon	eycomb	0.008		0.015 eycomb fabric (long		0.02
Air filte	Type Output er	Gas		0.1 PP Hon ø15.88 (ø5/8) /	eycomb ø19.05 (ø3/4)	0.008				0.02
Air filte Refrige	Type Output er	Gas (Flare)	kW	0.1 PP Hon	eycomb ø19.05 (ø3/4)	0.008		eycomb fabric (long		0.02
Air filte Refrige	Type Output er	Gas (Flare)	kW	0.1 PP Hon ø15.88 (ø5/8) / (Comp	eycomb ø19.05 (ø3/4)	0.008		eycomb fabric (long		0.02
Air filte Refrige pipe dia	Type Output er erant ameter	Gas (Flare) Liquid (Flare)	kW mm(in.) mm(in.)	0.1 PP Hon ø15.88 (ø5/8) / (Comp ø9.52	eycomb ø19.05 (ø3/4) atible) (ø3/8)	0.008	PP Hon	eycomb fabric (long ø12.7 (ø1/2) ø6.35 (ø1/4)	life type)	0.02
Air filte Refrige pipe dia	Type Output er erant ameter rain pipe	Gas (Flare) Liquid (Flare) diameter	kW mm(in.)	0.1 PP Hon ø15.88 (ø5/8) / (Comp ø9.52	eycomb ø19.05 (ø3/4) atible)	0.008	PP Hon	eycomb fabric (long ø12.7 (ø1/2)	life type)	0.02
Air filte Refrige pipe dia Field dr	Type Output er erant ameter rain pipe	Gas (Flare) Liquid (Flare) diameter	kW mm(in.) mm(in.) mm(in.)	0.1 PP Hon ø15.88 (ø5/8) / (Comp ø9.52 O.D. 32	eycomb ø19.05 (ø3/4) atible) (ø3/8) : (1-1/4)		0.D. 32 (1-1/4	eycomb fabric (long ø12.7 (ø1/2) ø6.35 (ø1/4) I) (PVC pipe VP-25	life type) connectable)	
Air filte Refrige pipe dia Field dr Sound p (Lo-Mid-	Type Output er erant ameter rain pipe	Gas (Flare) Liquid (Flare) diameter evel *2 *3	kW mm(in.) mm(in.)	0.1 PP Hon ø15.88 (ø5/8) / (Comp ø9.52	eycomb ø19.05 (ø3/4) atible) (ø3/8)	28-30-31	PP Hon	eycomb fabric (long ø12.7 (ø1/2) ø6.35 (ø1/4)	life type)	30-34-39

Notes:

*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling : Indoor 27°C(81°F)DB/19°C(66°F)WB,Outdoor 35°C(95°F)DB Heating : Indoor 20°C(68°F)DB,Outdoor 7°C(45°F)DB/6°C(43°F)WB

*2 Airflow rate/Sound pressure level are in (Lo-Mid-Hi) or (Lo-Mid1-Mid2-Hi).

 $^{\ast}3$ $\,$ It is measured in an echoic room at power source 230V.

INDOOR UNIT Ceiling cassette type 2-way airflow PLFY-P VLMD-E

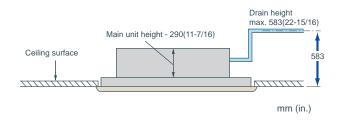


Slim body of 290mm(11-7/16in.) height



Equipped with drain pump mechanism as standard

The drain can be positioned anywhere up to 583mm(22-15/16in.) from the ceiling's surface, providing greater freedom with long cross-piping and allowing more versatility with piping layouts.



Compact unit and low noise level attained!

Sound pressure level table (Standard static pressure) at 0Pa

											UD(A)
	Capa	city	P20	P25	P32	P40	P50	P63	P80	P100	P125
Sound pressure		High		33		36	37	39	39	42	46
Level	Fan Speed	Mid		30		33	34	37	36	39	42/44
		Low		27		29	31	32	33	36	40
0001/0	101/										

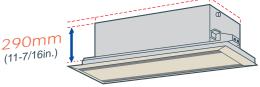
<220V,240V>

										_	dB(A)
	Capa	city	P20	P25	P32	P40	P50	P63	P80	P100	P125
Sound pressure		High		34		37	38	40	40	43	46
Level	Fan Speed	Mid		31		34	35	38	37	41	42/44
	Low			28		30	32	33	34	37	40

<230V>

Slim body - only 290mm(11-7/16in.) height

The slimline body is suitable for installation in narrow ceiling spaces and for replacing obsolete air-conditioning equipment in older buildings. The main unit is only 290mm(11-7/16in.) height.



Terminal block on outside of main unit makes wiring easier

Fresh air directly taken in

Fresh air can be taken in to the main unit directly (optional accessories needed.)

Long life filter equipped as standard

The antibacterial long life filter does not require maintenance for approximately a year.

Easy installation

Lighter panel and placing the electric board near the panel make installation and maintenance easier. Also, the heat exchanger is washable by displacing the center panel, filter, and fan.

Indoor Unit

				PLFY-P20VLMD-E	PLFY-P25VI	.MD-E PLFY	-P32VLMD-E	PLFY-P40VLMD-E
Power	source				1-phase 22	0-240V 50Hz / 1-phase 220	0-230V 60Hz	
Cooling	g capacity	. *1	kW	2.2	2.8		3.6	4.5
	y capacity	^y *1	BTU/h	7,500	9,600		12,300	15,400
Lleatin		. *1	kW	2.5	3.2		4.0	5.0
Heating	g capacit	y *1	BTU/h	8,500	10,900)	13,600	17,100
Power		Cooling	kW	0.072 / 0.075	0.072 / 0.	075 0.0)72 / 0.075	0.081 / 0.085
consun	nption	Heating	kW	0.065 / 0.069	0.065 / 0.		065 / 0.069	0.074 / 0.079
-		Cooling	A	0.36 / 0.37	0.36 / 0.		.36 / 0.37	0.40 / 0.42
Curren	t	Heating	A	0.30 / 0.32	0.30 / 0.		.30 / 0.32	0.34 / 0.37
Externa	al finish	Unit		0.007 0.02	0.007 0.	Galvanized steel plate		0.047 0.07
(Munse		Panel				Pure white (6.4Y 8.9/0.4)		
Dimensi	/	Unit	mm (in.)		200 x	776 x 634 (11-7/16 x 30-9/1	6 x 25)	
HxWx		Panel	mm (in.)			1080 x 710 (13/16 x 42-9/16	,	
		Unit	kg(lbs.)		23 (51)	1000 x 7 10 (15/10 x 42-5/10	24 (53)	
Net we	ight	Panel			23 (31)	C E (4E)	24 (33)	
Hoat o	xchanger		kg(lbs.)			6.5 (15) Cross fin		
Tieates		Quantity						
	турех	Quantity			0.5.0.0	Turbo fan x 1		7085405
For	Airflow	rate *2	m³/min		6.5-8.0-9			7.0-8.5-10.5
Fan	(Lo-Mic	d-Hi)	L/s		108-133-			117-142-175
			cfm		230-283-			247-300-371
		atic pressure	Pa			0		
Motor	Туре					1-phase induction motor		
	Output		kW			0.015 (at 240V)		
Air filte					PPI	noneycomb fabric (long life	type)	
Refrige	erant	Gas(Flare)	mm(in.)			ø12.7 (ø1/2)		
pipe dia	ameter	Liquid(Flare)	mm(in.)		ø6.35 (ø1/4)			
Field dr	ain pipe o	diameter	mm(in.)			O.D.32 (1-1/4)	4)	
Sound pre	essure level	220V,240V	dB(A)		27-30-3	3		29-33-36
(Lo-Mid-F	li) *2 *3	230V	dB(A)		28-31-3	4		30-34-37
				PLFY-P50VLMD-E	PLFY-P63VLMD-E	PLFY-P80VLMD-E	PLFY-P100VLMD-E	PLFY-P125VLMD-E
Power	source					50Hz / 1-phase 220-230V		
Coolin	g capacit	*1 v	kW		5.6 7.1 9.0 11.2		14.0	
	5 1	* *1	BTU/h	19,100	24,200	30,700	38,200	47,800
Heatin	g capacit	*1	kW	6.3	8.0	10.0	12.5	16.0
	• •	· ^1	BTU/h	21,500	27,300	34,100	42,700	54,600
Power		Cooling	kW	0.082 / 0.086	0.101 / 0.105	0.147 / 0.156	0.157 / 0.186	0.28 / 0.28
consur	nption	Heating	kW	0.075 / 0.080	0.094 / 0.099	0.140 / 0.150	0.150 / 0.180	0.27 / 0.27
Curren	ıt	Cooling	A	0.41 / 0.43	0.49 / 0.51	0.72 / 0.74	0.75 / 0.88	1.35 / 1.35
		Heating	A	0.35 / 0.38	0.43 / 0.46	0.66 / 0.69	0.69 / 0.83	1.33 / 1.33
Extern	al finish	Unit				Galvanized steel plate		
(Munse	ell No.)	Panel				Pure white (6.4Y 8.9 / 0.4)		
Dimen	sion	Unit	mm (in.)	290 x 946 x 634 (11	-7/16 x 37-1/4 x 25)	290 x 1446 x 634 (11	-7/16 x 56-15/16 x 25)	290 x 1708 x 606 (11-7/16 x 67-1/4 x 23-7/8)
НхW	x D	Panel	mm (in.)	20 x 1250 x 710 (1	3/16 x 49-1/4 x 28)	20 x 1750 x 710 (13	3/16 x 68-15/16 x 28)	20 x 2010 x 710 (13/16 x 79-3/16 x 28)
Natio	inht	Unit	kg(lbs.)	27 (60)	28 (62)	44 (98)	47 (104)	56 (124)
Net we	agni	Panel	kg(lbs.)	7.5	(17)	12.5	5 (28)	13.0 (29)
				j(IDS.) 7.5 (17)		7.5 (17) 12.5 (28)		
Heat e	xchange	r				Cross fin		
Heat e		r Quantity		Turbo	fan x 1		fan x 2	Sirocco fan x 4
Heat e	Туре х	Quantity	m³/min	Turbo 9.0-11.0-12.5		Turbo	1	Sirocco fan x 4 24.0-27.0-30.0-33.0
	Type x Airflow	Quantity rate *2	m³/min L/s	9.0-11.0-12.5	11.0-13.0-15.5	Turbo 15.5-18.5-22.0	17.5-21.0-25.0	24.0-27.0-30.0-33.0
Heat e Fan	Type x Airflow (P50~P100	Quantity rate *2):Lo-Mid-Hi)	L/s	9.0-11.0-12.5 150-183-208	11.0-13.0-15.5 167-217-258	Turbo 15.5-18.5-22.0 258-308-367	17.5-21.0-25.0 292-350-417	24.0-27.0-30.0-33.0 400-450-500-550
	Type x Airflow (P50~P100 (P125:Lo-N	Quantity rate *2):Lo-Mid-Hi) /id2-Mid1-Hi)	L/s cfm	9.0-11.0-12.5	11.0-13.0-15.5	Turbo 15.5-18.5-22.0	17.5-21.0-25.0	24.0-27.0-30.0-33.0
	Type x Airflow (P50~P100 (P125:Lo-N External st	Quantity rate *2):Lo-Mid-Hi)	L/s	9.0-11.0-12.5 150-183-208	11.0-13.0-15.5 167-217-258	Turbo 15.5-18.5-22.0 258-308-367 547-653-777 0	17.5-21.0-25.0 292-350-417	24.0-27.0-30.0-33.0 400-450-500-550
	Type x Airflow (P50-P100 (P125:Lo-N External st Type	Quantity rate *2 D:Lo-Mid-Hi) Aid2-Mid1-Hi) atic pressure	L/s cfm Pa	9.0-11.0-12.5 150-183-208 318-388-441	11.0-13.0-15.5 167-217-258 353-459-547	Turbo 15.5-18.5-22.0 258-308-367 547-653-777 0 1-phase induction motor	17.5-21.0-25.0 292-350-417 618-742-883	24.0-27.0-30.0-33.0 400-450-500-550 848-953-1,059-1,165
Fan	Type x Airflow (P50~P100 (P125:Lo-N External st	Quantity rate *2 D:Lo-Mid-Hi) Aid2-Mid1-Hi) atic pressure	L/s cfm	9.0-11.0-12.5 150-183-208 318-388-441	11.0-13.0-15.5 167-217-258	Turbo 15.5-18.5-22.0 258-308-367 547-653-777 0	17.5-21.0-25.0 292-350-417	24.0-27.0-30.0-33.0 400-450-500-550 848-953-1,059-1,165 0.078 x 2 (at 240V)
Fan	Type x Airflow (P50-P100 (P125:Lo-M External st Type Output	Quantity rate *2 D:Lo-Mid-Hi) Aid2-Mid1-Hi) atic pressure	L/s cfm Pa	9.0-11.0-12.5 150-183-208 318-388-441	11.0-13.0-15.5 167-217-258 353-459-547 at 240V)	Turbo 15.5-18.5-22.0 258-308-367 547-653-777 0 1-phase induction motor 0.020 (at 240V)	17.5-21.0-25.0 292-350-417 618-742-883 0.030 (at 240V)	24.0-27.0-30.0-33.0 400-450-500-550 848-953-1,059-1,165 0.078 x 2 (at 240V) Synthetic fiber unwoven
Fan Motor	Type x Airflow (P50-P100 (P125:Lo-M External st Type Output	Quantity rate *2):Lo-Mid-Hi) <i>I</i> id2-Mid1-Hi) atic pressure	L/s cfm Pa	9.0-11.0-12.5 150-183-208 318-388-441	11.0-13.0-15.5 167-217-258 353-459-547 at 240V)	Turbo 15.5-18.5-22.0 258-308-367 547-653-777 0 1-phase induction motor	17.5-21.0-25.0 292-350-417 618-742-883 0.030 (at 240V)	24.0-27.0-30.0-33.0 400-450-500-550 848-953-1,059-1,165 0.078 x 2 (at 240V)
Fan Motor Air filte	Type x Airflow (P50-P100 (P125:Lo-M External st Type Output	Quantity rate *2):Lo-Mid-Hi) <i>I</i> id2-Mid1-Hi) atic pressure Gas	L/s cfm Pa	9.0-11.0-12.5 150-183-208 318-388-441 0.020 (r	11.0-13.0-15.5 167-217-258 353-459-547 at 240V)	Turbo 15.5-18.5-22.0 258-308-367 547-653-777 0 1-phase induction motor 0.020 (at 240V) noneycomb fabric (long life	17.5-21.0-25.0 292-350-417 618-742-883 0.030 (at 240V)	24.0-27.0-30.0-33.0 400-450-500-550 848-953-1,059-1,165 0.078 x 2 (at 240V) Synthetic fiber unwoven
Fan Motor Air filte Refrige	Type x Airflow (P50-P100 (P125:Lo-N External st Type Output	Quantity rate *2):Lo-Mid-Hi) Aid2-Mid1-Hi) atic pressure Gas (Flare)	L/s cfm Pa kW	9.0-11.0-12.5 150-183-208 318-388-441	11.0-13.0-15.5 167-217-258 353-459-547 at 240V)	Turbo 15.5-18.5-22.0 258-308-367 547-653-777 0 1-phase induction motor 0.020 (at 240V) noneycomb fabric (long life	17.5-21.0-25.0 292-350-417 618-742-883 0.030 (at 240V) type)	24.0-27.0-30.0-33.0 400-450-500-550 848-953-1,059-1,165 0.078 x 2 (at 240V) Synthetic fiber unwoven
Fan Motor Air filte Refrige	Type x Airflow (P50-P100 (P125:Lo-M External st Type Output	Quantity rate *2 :Lo-Mid-Hi) did2-Mid1-Hi) did2-Mid1-Hi) dic pressure Gas (Flare) Liquid	L/s cfm Pa kW mm(in.)	9.0-11.0-12.5 150-183-208 318-388-441 0.020 (x ø12.7 (ø1/2)	11.0-13.0-15.5 167-217-258 353-459-547 at 240V)	Turbo 15.5-18.5-22.0 258-308-367 547-653-777 0 1-phase induction motor 0.020 (at 240V) noneycomb fabric (long life ø15.84	17.5-21.0-25.0 292-350-417 618-742-883 0.030 (at 240V) type) 3 (ø5/8)	24.0-27.0-30.0-33.0 400-450-500-550 848-953-1,059-1,165 0.078 x 2 (at 240V) Synthetic fiber unwoven
Fan Motor Air filte pipe di	Type x Airflow (P50-P100 (P125:Lo-N External st Type Output er erant ameter	Quantity rate *2 ::Lo-Mid-Hi) /id2-Mid1-Hi)	L/s cfm Pa kW mm(in.)	9.0-11.0-12.5 150-183-208 318-388-441 0.020 (r	11.0-13.0-15.5 167-217-258 353-459-547 at 240V)	Turbo 15.5-18.5-22.0 258-308-367 547-653-777 0 1-phase induction motor 0.020 (at 240V) noneycomb fabric (long life ø15.84 ø9.52	17.5-21.0-25.0 292-350-417 618-742-883 0.030 (at 240V) type)	24.0-27.0-30.0-33.0 400-450-500-550 848-953-1,059-1,165 0.078 x 2 (at 240V) Synthetic fiber unwoven
Fan Motor Air filte pipe di Field d	Type x Airflow (P50-P100 (P125:Lo-N External st Type Output er erant ameter rain pipe	Quantity rate *2 2:Lo-Mid-Hi) /id2-Mid1-Hi)	L/s cfm Pa kW mm(in.) mm(in.)	9.0-11.0-12.5 150-183-208 318-388-441 0.020 (x ø12.7 (ø1/2)	11.0-13.0-15.5 167-217-258 353-459-547 at 240V)	Turbo 15.5-18.5-22.0 258-308-367 547-653-777 0 1-phase induction motor 0.020 (at 240V) ioneycomb fabric (long life ø15.84 ø9.52 O.D.32 (1-1/4)	17.5-21.0-25.0 292-350-417 618-742-883 0.030 (at 240V) type) 3 (ø5/8)	24.0-27.0-30.0-33.0 400-450-500-550 848-953-1,059-1,165 0.078 x 2 (at 240V) Synthetic fiber unwoven
Fan Motor Air filte pipe di Field d	Type x Airflow (P50-P100 (P125:Lo-N External st Type Output er erant ameter rain pipe essure level	Quantity rate *2 2:Lo-Mid-Hi) /id2-Mid1-Hi)	L/s cfm Pa kW mm(in.)	9.0-11.0-12.5 150-183-208 318-388-441 0.020 (x ø12.7 (ø1/2)	11.0-13.0-15.5 167-217-258 353-459-547 at 240V)	Turbo 15.5-18.5-22.0 258-308-367 547-653-777 0 1-phase induction motor 0.020 (at 240V) noneycomb fabric (long life ø15.84 ø9.52	17.5-21.0-25.0 292-350-417 618-742-883 0.030 (at 240V) type) 3 (ø5/8)	24.0-27.0-30.0-33.0 400-450-500-550 848-953-1,059-1,165 0.078 x 2 (at 240V) Synthetic fiber unwoven

Notes:

*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling : Indoor 27°C(81°F)DB/19°C(66°F)WB,Outdoor 35°C(95°F)DB Heating : Indoor 20°C(68°F)DB,Outdoor 7°C(45°F)DB/6°C(43°F)WB

*2 Airflow rate/Sound pressure level are in (low-middle-high) or (low-middle2-middle1-high).

*3 It is measured in anechoic room.

INDOOR UNIT Ceiling cassette type 1-way airflow PMFY-P VBM-E



Compact and lightweight body perfect for limited ceiling space applications.



Compact size for smooth installation and maintenance

Unit body size has been standardised for all models at 812mm for easier installation. Body weight is only 14kg for the main unit and 3kg for the panel, making this unit one of the lightest in the industry.

Quiet operation

Airflow control technology reduces noise level to only 27dB (P20VBM) for quiet performance.

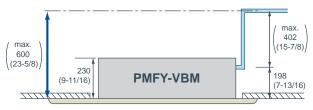
Sound pressure level table

Capa	icity	P20	P25	P32	P40
	High	35	37		39
Fan	Mid 1 33 36		6	37	
Speed	Mid 2	30	3	4	35
	Low	27	32		33
	Fan	Fan Speed Mid 1 Mid 2	Fan Speed Mid 2 30	High 35 3 Fan Mid 1 33 3 Mid 2 30 3	High 35 37 Fan Mid 1 33 36 Mid 2 30 34

<220V,240V>

Drain pump

The drain can be positioned anywhere up to 600mm(23-5/8in.) from the ceiling's surface.



mm (in.)



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				PMFY-P20VBM-E	PMFY-P25VBM-E	PMFY-P32VBM-E	PMFY-P40VBM-E						
Power	source				1-phase 220-240V 50H	z / 1-phase 220V 60Hz							
Cooling	consumption Current External finish (N Dimension H × W × D Net weight Heat exchanger Type Airflow ra (Lo-Mid2-1 External stat Motor Output Air filter Refrigerant	, *1	kW	2.2	2.8	3.6	4.5						
Coomi	y capacit	^y *1	BTU/h	7,500	9,600	12,300	15,400						
Heating		*1	kW	2.5	3.2	4.0	5.0						
пеаци	y capacit	y *1	BTU/h	8,500	1-phase 220-240V 50Hz / 1-phase 220V 60Hz 2.8 3.6 4.5 9,600 12,300 15,400 3.2 4.0 5.0 10,900 13,600 17,100 0.044 0.054 0.21 0.26 0.21 0.26 0.21 0.26 30 x 1000 x 470 (1-3/16 x 32 x 15-9/16) 30 x 1000 x 470 (1-3/16 x 32 x 15-9/16) 30 x 1000 x 470 (1-3/16 x 32 x 15-9/16) 30 x 1000 x 470 (1-3/16 x 32 x 15-9/16) 30 x 1000 x 470 (1-3/16 x 32 x 15-9/16) 30 x 1000 x 470 (1-3/16 x 32 x 15-9/16) 30 x 1000 x 470 (1-3/16 x 32 x 15-9/16) 30 x 1000 x 470 (1-3/16 x 32 x 15-9/16) 30 x 1000 x 470 (1-3/16 x 32 x 15-9/16) 30 x 1000 x 470 (1-3/16 x 32 x 15-9/16) 30 x 1000 x 470 (1-3/16 x 32 x 15-9/16) 14 (31) 3 (7) Cross fin (Aluminum plate fin and copper tube) Line flow fan x 1 7 7 7.3-8.0-8.6-9.3 7.7-8.7-9.7-10. 45 122-133-143-155 128-145-162-11	17,100							
Power	ternal finish (Musell mension Unit x W x D Panel	kW	0.042	0.0	44	0.054							
consur	nption	Heating	kW	0.042	0.0	44	0.054						
Curron	+	Cooling	А	0.20	0.3	21	0.26						
Curren	l	Heating	А	0.20	0.:	21	0.26						
Externa	al finish (Munsell N	No.)	White (0.98Y 8.99/0.63)									
			mm(in.)		230 x 812 x 395 (9-1/16 x 32 x 15-9/16)								
HxW			mm(in.)	30 x 1000 x 470 (1-3/16 x 39-3/8 x 18-9/16)									
Notwo	Net weight		kg(lbs.)		14 (31)								
INCL WC	Net weight		kg(lbs.)	- ()									
Heat e	xchanger			Cross fin (Aluminum plate fin and copper tube)									
	Туре				Line flov	/ fan x 1							
	Airflow	rato *2	m³/min	6.5-7.2-8.0-8.7	7.3-8.0-	7.7-8.7-9.7-10.7							
Fan			L/s	108-120-133-145	122-133-	143-155	128-145-162-178						
		-wita i -i iij	cfm	230-254-283-307	258-283-	304-328	272-307-343-378						
		aticpressure	Pa		()							
Motor													
	· ·		kW		0.0	28							
Air filte	r				PP Honeyc	omb fabric							
· ·		Gas(Flare)	mm(in.)										
		Liquid(Flare)	. ,										
			mm(in.)		O.D. 2	26 (1)	I						
			dB(A)	27-30-33-35	32-34-	36-37	33-35-37-39						

Notes:

*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling : Indoor 27°C(81°F)DB/19°C(66°F)WB,Outdoor 35°C(95°F)DB Heating : Indoor 20°C(68°F)DB,Outdoor 7°C(45°F)DB/6°C(43°F)WB

*2 Airflow rate/Sound pressure level are in (low-middle2-middle1-high).

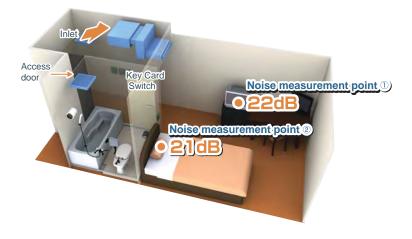
*3 It is measured in anechoic room.

INDOOR UNIT Ceiling concealed type

PEFY-P VMR-E-L/R



Problem solver for residential hotels, museums, libraries, or hospitals where low noise is a must!



Operable by key card switch

It is possible to operate / stop by taking a key card in and out.

Ultra low noise

Quiet indoor environment can be achieved with 21dB around the bed and 22dB around the desk.

*The noise level may differ by the room size or the setting of the unit.

Enables to install for symmetric design room

Left or right piping and control boxes are available depending on the layout of each room. Plus, as in the above figure, easy maintenance is possible from the access door in the bathroom. *Seen from the front, the pipe and control box are on the right side for -R models.

Easy maintenance

Drain pan and heat exchangers are washable from the access door in the bathroom, making maintenance easy and cost saving.

Energy efficiency

Energy efficiency can be realised with a centralised system when no one is in the room.

Note: Compact and simple controllers, designed specifically to control only start/stop, fan speed and temperature can be set in each room for the occupants' enhanced individual comfort.



				PEFY-P20VMR-E-L	PEFY-P25VMR-E-L	PEFY-P32VMR-E-L
Power s	source				ise 220-230-240V 50Hz / 1-phase 220-230V 60	
		*1	kW	2.2	2.8	3.6
Cooling	capacit	y *1	BTU/h	7,500	9,600	12,300
		*1	kW	2.5	3.2	4.0
Heating	capacit	y *1	BTU/h	8,500	10,900	13,600
Power		Cooling	kW	0.06 / 0.06	0.06 / 0.06	0.07 / 0.08
consum	notion	Heating	kW	0.06 / 0.06	0.06 / 0.06	0.07 / 0.08
consum	iption	Cooling	A	0.29 / 0.29	0.29 / 0.29	0.34 / 0.38
Current	t	Heating	A	0.29 / 0.29	0.29 / 0.29	0.34 / 0.38
Externa	l finich	ricating	~	0.207 0.20	Galvanized	
Dimensi		ear inlet	mm (in.)		292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)	
HxWx		ttom inlet	mm (in.)		300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2)	
Net wei		llom met	kg(lbs.)		. , ,	
	0		Kg(IDS.)		18 (40)	
	changer				Cross fin (Aluminum fin and copper tube) Sirocco fan x 1	
-	туре х	Quantity		105		405000
	Airflow	rate	m³/min	4.8-5.		4.8-5.8-9.3
Fan	(Lo-Mid	-Hi)	L/s	80-97		80-97-155
	Enter	1 - 1 - 1 -	cfm	170-20	5-279	170-205-328
	Externa		Pa		5	
	pressur	e *2				
	Туре				1-phase induction motor	
	Output		kW	0.0		0.023
Air filter					PP Honeycomb fabric (washable)	
Refriger	rant	Gas	mm(in.)		ø12.7 (ø1/2) Brazed	
pipe dia		Liquid	mm(in.)		ø6.35 (ø1/4) Brazed	
Field dra	ain pipe o	diameter	mm(in.)		O.D. 26 (1)	
Sound r	oressure	220V		20-25	5-30	20-25-33
level (I c	-Mid-Hi)	230V	dB(A)	21-20	5-32	21-26-35
level (Lo	*3′	240V		22-2	7-30	22-27-33
				PEFY-P20VMR-E-R	PEFY-P25VMR-E-R	PEFY-P32VMR-E-R
Dowor (000000				Ise 220-230-240V 50Hz / 1-phase 220-230V 60	
Power s	source	*1	kW	2.2	2.8	
Cooling	capacit	y *1				3.6
		*1	BTU/h	7,500	9,600	12,300
			kW		3.2	4.0
-	capacit		DTU			
Heating) capacit	^y *1	BTU/h	8,500	10,900	13,600
Heating Power		y *1 Cooling	kW	8,500 0.06 / 0.06	0.06 / 0.06	0.07 / 0.08
Heating Power		y *1 Cooling Heating	kW kW	8,500 0.06 / 0.06 0.06 / 0.06	0.06 / 0.06 0.06 / 0.06	0.07 / 0.08 0.07 / 0.08
Heating Power consum	nption	y *1 Cooling Heating Cooling	kW kW A	8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29	0.06 / 0.06 0.06 / 0.06 0.29 / 0.29	0.07 / 0.08 0.07 / 0.08 0.34 / 0.38
Heating Power consum Current	nption	y *1 Cooling Heating	kW kW	8,500 0.06 / 0.06 0.06 / 0.06	0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29	0.07 / 0.08 0.07 / 0.08
Heating Power consum Current Externa	nption	y *1 Cooling Heating Cooling Heating	kW kW A A	8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29	0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized	0.07 / 0.08 0.07 / 0.08 0.34 / 0.38
Heating Power consum Current Externa Dimens	nption al finish	y *1 Cooling Heating Cooling Heating	kW kW A A mm (in.)	8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29	0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)	0.07 / 0.08 0.07 / 0.08 0.34 / 0.38
Heating Power consum Current Externa Dimens	nption al finish	y *1 Cooling Heating Cooling Heating	kW kW A M mm (in.) mm (in.)	8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29	0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized	0.07 / 0.08 0.07 / 0.08 0.34 / 0.38
Heating Power consum Current Externa Dimensi H x W x	al finish sion Re < D Bo	y *1 Cooling Heating Cooling Heating	kW kW A A mm (in.)	8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29	0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)	0.07 / 0.08 0.07 / 0.08 0.34 / 0.38
Heating Power consum Current Externa Dimens H x W x Net weig Heat ex	al finish sion Re < D Bo ight cchanger	y *1 Cooling Heating Cooling Heating ear inlet ttom inlet	kW kW A M mm (in.) mm (in.)	8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29	0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and copper tube)	0.07 / 0.08 0.07 / 0.08 0.34 / 0.38
Heating Power consum Current Externa Dimensi H x W x Net wei Heat ex	al finish sion Re < D Bo ight cchanger	y *1 Cooling Heating Cooling Heating Heating	kW kW A M mm (in.) mm (in.)	8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29	0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 (40)	0.07 / 0.08 0.07 / 0.08 0.34 / 0.38
Heating Power consum Current Externa Dimens H x W x Net weig Heat ex	al finish sion Re < D Bo ight cchanger Type x (y *1 Cooling Heating Cooling Heating ear inlet ttom inlet	kW kW A M mm (in.) mm (in.)	8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29	0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and copper tube) Sirocco fan x 1	0.07 / 0.08 0.07 / 0.08 0.34 / 0.38
Heating Power consum Current Externa Dimensi H x W x Net wein Heat ex	al finish sion Re < D Bo ight cchanger Type x (Airflow	y *1 Cooling Heating Cooling Heating Heating ear inlet ttom inlet Quantity rate	kW kW A mm (in.) mm (in.) kg(lbs.)	8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29	0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and copper tube) Sirocco fan x 1 8-7.9	0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38
Heating Power consum Current Externa Dimensi H x W x Net weig Heat ex	al finish sion Re < D Bo ight cchanger Type x (y *1 Cooling Heating Cooling Heating Heating ear inlet ttom inlet Quantity rate	kW kW A mm (in.) mm (in.) kg(lbs.) m³/min	8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 0.29 / 0.29 4.8-5.	0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and copper tube) Sirocco fan x 1 8-7.9 -132	0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3
Heating Power consum Current Externa Dimensi H x W x Net weig Heat ex	al finish sion Re < D Bo ight cchanger Type x (Airflow	y *1 Cooling Heating Cooling Heating Heating ear inlet ttom inlet Quantity rate -Hi)	kW kW A mm (in.) mm (in.) kg(lbs.) m³/min L/s cfm	8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 0.29 / 0.29 4.8-5. 80-97	0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and copper tube) Sirocco fan x 1 8-7.9 -132 5-279	0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 80-97-155
Heating Power Consum Current Externa Dimens H x W x Net weig Heat ex	al finish ion Re CD Bo ight cchanger Type x (Airflow (Lo-Mid	y *1 Cooling Heating Cooling Heating Heating ear inlet ttom inlet ttom inlet uuantity rate -Hi)	kW kW A mm (in.) mm (in.) kg(lbs.) m³/min L/s	8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 0.29 / 0.29 4.8-5. 80-97	0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and copper tube) Sirocco fan x 1 8-7.9 -132	0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 80-97-155
Heating Power Consum Current Externa Dimens H x W x Net weig Heat ex	al finish al finish c D Bo gght cchanger Type x C Airflow (Lo-Mid Externa pressur	y *1 Cooling Heating Cooling Heating Heating ear inlet ttom inlet ttom inlet ttom inlet uuantity rate -Hi)	kW kW A mm (in.) mm (in.) kg(lbs.) m³/min L/s cfm	8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 0.29 / 0.29 4.8-5. 80-97	0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and copper tube) Sirocco fan x 1 8-7.9 -132 5-279	0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 80-97-155
Heating Power consum Current Externa Dimensi H x W x Net weig Heat ex Fan	al finish ion Re D Bo ight cchanger Type x (Airflow (Lo-Mid Externa	y *1 Cooling Heating Cooling Heating Heating ear inlet ttom inlet ttom inlet ttom inlet uuantity rate -Hi)	kW kW A mm (in.) mm (in.) kg(lbs.) m³/min L/s cfm	8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 0.29 / 0.29 4.8-5. 80-97	0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and copper tube) Sirocco fan x 1 8-7.9 -132 5-279 5 1-phase induction motor	0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 80-97-155
Heating Power consum Current Externa Dimens x Net weig Heat ex Fan	al finish sion Re c D Bo ight cchanger Type x 0 Airflow (Lo-Mid Externa pressur Type Output	y *1 Cooling Heating Cooling Heating Heating ear inlet ttom inlet ttom inlet ttom inlet uuantity rate -Hi)	kW kW A M mm (in.) kg(lbs.) m³/min L/s cfm Pa	8,500 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 0.29 / 0.29 4.8-5. 80-97 170-20	0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8) 18 (40) Cross fin (Aluminum fin and copper tube) Sirocco fan x 1 8-7.9 -132 5-279 5 1-phase induction motor 18	0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 80-97-155 170-205-328
Heating Power consum Current Externa Dimens H x W x Net weig Heat ex Fan Motor Air filter	al finish ion Reconstruction ght cchanger Type x (Airflow (Lo-Mid Externa pressur Type Output	y *1 Cooling Heating Cooling Heating ear inlet ttom inlet Quantity rate Hi) I static e *2	kW kW A M mm (in.) kg(lbs.) m ³ /min L/s cfm Pa kW	8,500 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 0.29 / 0.29 4.8-5. 80-97 170-20	0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and copper tube) Sirocco fan x 1 8-7.9 -132 5-279 5 1-phase induction motor 18 PP Honeycomb fabric (washable)	0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 80-97-155 170-205-328
Heating Power consum Current Externa Dimenss H x W x Net weig Heat ex Fan Motor Air filter Refriger	al finish ion Re c D Bo ight cchanger Type x Airflow (Lo-Mid Externa pressur Type Output	y +1 Cooling Heating Cooling Heating Heating ear inlet ttom inlet tom inlet autominet Guantity atatic e *2 Gas	kW kW A A mm (in.) kg(lbs.) m ³ /min L/s cfm Pa Pa kW kW	8,500 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 0.29 / 0.29 4.8-5. 80-97 170-20	0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and copper tube) Sirocco fan x 1 8-7.9 -132 5-279 5 1-phase induction motor 18 PP Honeycomb fabric (washable) ø12.7 (ø1/2) Brazed	0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 80-97-155 170-205-328
Heating Power consum Current Externa Dimenss H x W x Net weig Heat ex Fan Motor Air filter Refriger pipe dia	al finish sion Re c D Bo ight cchanger Type x (Airflow (Lo-Mid Externa pressur Type Output rant ameter	y +1 Cooling Heating Cooling Heating Heating aar inlet ttom inlet ttom inlet ttom inlet duantity rate -Hi) I static e *2 Gas Liquid	kW kW A A (h) kg(lbs.) kg(lbs.) L/s cfm Pa Pa kW kW kW	8,500 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 0.29 / 0.29 4.8-5. 80-97 170-20	0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and copper tube) Sirocco fan x 1 8-7.9 -132 5-279 5 1-phase induction motor 18 PP Honeycomb fabric (washable) ø12.7 (ø1/2) Brazed ø6.35 (ø1/4) Brazed	0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 80-97-155 170-205-328
Heating Power consum Current Externa Dimenss H x W x Net weig Heat ex Fan Motor Air filter Refriger pipe dia Field dra	al finish sion Re c D Bo ight cchanger Type x A Airflow (Lo-Mid Externa pressur Type Output rant ameter ain pipe c	y +1 Cooling Heating Cooling Heating Heating aar inlet ttom inlet ttom inlet ttom inlet duantity rate -Hi) I static e *2 Gas Liquid diameter	kW kW A A mm (in.) kg(lbs.) m ³ /min L/s cfm Pa Pa kW kW	8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 4.8-5. 80-97 170-20 0.0	0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and copper tube) Sirocco fan x 1 8-7.9 -132 5-279 5 1-phase induction motor 18 PP Honeycomb fabric (washable) ø12.7 (ø1/2) Brazed ø6.35 (ø1/4) Brazed 0.D. 26(1)	0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 80-97-155 170-205-328 0.023
Heating Power consum Current Externa Dimenss H x W x Net weig Heat ex Fan Motor Air filter Refriger pipe dia Field dra Sound p	al finish al finish	y *1 Cooling Heating Cooling Heating Heating Cooling Heating Heating Heating Heating Heating Heating Heating Cooling Heating Heating Cooling Heating H	kW kW A A (h) kg(lbs.	8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 4.8-5. 80-97 170-20 0.0	0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and copper tube) Sirocco fan x 1 8-7.9 -132 5-279 5 1-phase induction motor 18 PP Honeycomb fabric (washable) ø12.7 (ø1/2) Brazed ø6.35 (ø1/4) Brazed 0.D. 26(1)	0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 4.8-5.8-9.3 80-97-155 170-205-328 0.023 20-25-33
Heating Power consum Current Externa Dimens H x W x Net weig Heat ex Fan Motor Air filter Refriger pipe dia Field dra	al finish al finish	y +1 Cooling Heating Cooling Heating Heating aar inlet ttom inlet ttom inlet Quantity rate -Hi) I static e *2 Gas Liquid diameter	kW kW A A (h) kg(lbs.) kg(lbs.) L/s cfm Pa Pa kW kW kW	8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 4.8-5. 80-97 170-20 0.0	0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and copper tube) Sirocco fan x 1 8-7.9 -132 5-279 5 1-phase induction motor 18 PP Honeycomb fabric (washable) ø12.7 (ø1/2) Brazed ø6.35 (ø1/4) Brazed 0.D. 26(1) 5-30	0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 80-97-155 170-205-328 0.023

Notes:

*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling : Indoor 27°C (81°F) DB/19°C (66°F) WB, Outdoor 35°C (95°F) DB Heating : Indoor 20°C (68°F) DB, Outdoor 7°C (45°F) DB/6°C (43°F) WB

*2 The external static pressure is set to 5Pa (at 220V, 230V, 240V).

*3 Measured in anechoic room. Sound pressure levels of the unit with a rear air inlet. (Sound pressure levels are higher than the unit with a bottom air inlet.)

Indoor Unit

INDOOR UNIT				
Ceiling concealed t	уре	1		
PEFY-P VMS1(L)-	E			
Static Pressure Height 200 mm Low Noise	Width 790mm ^{31-1/8in.}	Width 990mm ^{39in.}	Width 1,190 mm _{46-7/8in.}	

The ultra thin unit of 200mm offers increased flexibility, and is particularly suitable for places where low noise operation is desired for a slim line body.



Changeable static pressure

The unit is made suitable for a variety of applications with its four static pressure settings of 5, 15, 35, 50Pa.

Changeable airflow rate

Low, middle, and high fan speed settings deliver precise comfort.

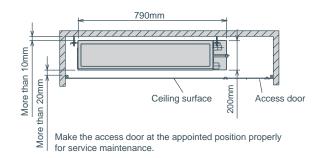
Choice for drain pump

Drain pump is an optional part for the VMS1L, and a standard for VMS1.

*For places where low noise operation is especially required (i.e. Hotels), VMS1L (without drain pump) is recommended.

Ultra low height unit with 200mm (7-28/32in.) high Ultra-narrow width of 790mm (P15-P32 models) [990mm for P40,50 models / 1190mm for P63 models]

Can be installed easily in tight spaces, such as ceiling cavities or drop-ceilings.



Reduced noise thanks to the use of newly designed centrifugal fan and coil

Sound pressure level table (Standard static pressure) at 15Pa

PP Honeycomb fabric

Washable PP Honeycomb fabric filter as standard

									dB(A)					
Sound pressure Level Fan	Capacity		P15	P20	P25	P32	P40	P50	P63					
	Fan	High	28	29	30	32	33	35	36					
					Fan Speed			Mid	24	25	26	27	30	32
	Low	22	23	24	24	28	30	30						

Indoor Unit

				PEFY-P15VMS1(L)-E	PEFY-P20VMS1(L)-E	PEFY-P25VMS1(L)-E	PEFY-P32VMS1(L)-E	PEFY-P40VMS1(L)-E	PEFY-P50VMS1(L)-E	PEFY-P63VMS1(L)-E				
Power	sourc	e				1-phase 220-24	0V 50Hz / 1-phase	220-240V 60Hz						
Coolin	a	*1	kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1				
Coolin	y capa	*1	BTU/h	5,800	7,500	9,600	12,300	15,400	19,100	24,200				
Heating		*1	kW	1.9	2.5	3.2	4.0	5.0	6.3	8.0				
Tieaunų	y capa	*1	BTU/h	6,500	8,500	10,900	13,600	17,100	21,500	27,300				
Power	*3	Cooling	kW	0.05 [0.03]	0.05 [0.03]	0.06 [0.04]	0.07 [0.05]	0.07 [0.05]	0.09 [0.07]	0.09 [0.07]				
consun	nption	Heating	kW	0.03 [0.03]	0.03 [0.03]	0.04 [0.04]	0.05 [0.05]	0.05 [0.05]	0.07 [0.07]	0.07 [0.07]				
Currer	ht *2	Cooling	A	0.42 [0.31]	0.47 [0.36]	0.50 [0.39]	0.50 [0.39]	0.56 [0.45]	0.67 [0.56]	0.72 [0.61]				
Ouner	. 3	Heating	А	0.31 [0.31]										
Extern	al finis	h					Galvanized							
Dimen	Dimension mn				200 x 79	90 x 700		200 x 9	90 x 700	200 x 1,190 x 700				
H x W	хD		In.		7-7/8 x 31-1	/8 x 27-9/16	7-7/8 x 39) x 27-9/16	7-7/8 x 46-7/8 x 27-9/16					
Net w	eight	*3	kg(lbs.)		<u>19(42) [18(40)]</u> 20(45) [19(42)] 24(53) [23(51)]									
Heat e	xchang	ler			Cross fin (Aluminium fin and copper tube)									
	Туре х	Quantity			Sirocco	fan x 2		Sirocco	o fan x 3	Sirocco fan x 4				
	Airflov	v rato	m³/min	5-6-7	5.5-6.5-8	5.5-7-9	6-8-10	8-9.5-11	9.5-11-13	12-14-16.5				
Fan	(Lo-M		L/s	83-100-117	91-108-133	91-117-150	100-133-167	133-158-183	158-183-217	200-233-275				
	(LO-IVI	iu-i ii)	cfm	176-212-247	194-229-282	194-247-317	212-282-353	282-335-388	335-388-459	424-494-583				
	Externa	l static press	Pa				5-15-35-50							
Motor	type						DC motor							
WOO	outpu	t	kW				0.096							
Air filte	r					PP Hor	neycomb fabric (was	shable)						
Refrigerant	Gas		mm(in.)			Ø	12.7 (ø1/2) Braze	d		ø15.88 (ø5/8) Brazed				
pipe diameter	Liquid		mm(in.)			Ø	6.35 (ø1/4) Braze	d		ø9.52 (ø3/8) Brazed				
Field dr	ain pipe	diameter	mm(in.)				O.D. 32 (1-1/4)							
Sound (Lo-Mid (mesured	-Hi)	e level hoic room)	dB <a>	22-24-28	23-25-29	24-26-30	24-27-32	28-30-33	30-32-35	30-33-36				

Notes:

*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling : Indoor : 27°CD.B./19°CW.B. (81°FD.B. / 66°FW.B.) Outdoor : 35°CD.B. (95°FD.B.) Heating : Indoor : 20°CD.B. (68°FD.B.) Outdoor : 7°CD.B. / 6°CW.B. (45°FD.B. / 43°FW.B.) Pipe length : 7.5m (24-9/16ft) Height difference : 0m (0ft)

*2 The external static pressure is set to 15 Pa at factory shipment.

*3 [] is in case of PEFY-P15-63VMS1L-E

INDOOR UNIT Ceiling Concealed Type

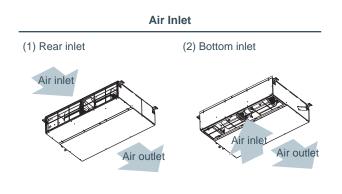
PEFY-P VMA(L)-E



Middle Static Pressure Slim Body 35~150Pa Height 250mm

With precise control of indoor temperature while operating with optimum energy usage, it offers a high-energy efficiency.





Compact Indoor Units

For all models, unit height are unified to 250mm. Compared to the previous model, the height size is reduced, allowing installation in tight spaces, such as ceiling cavities or drop-ceilings.



PEFY-P VMA(L)		20	25	32	40	50	63	71	80	100	125	140
Height						250						
Width			700 900 1,100 1,40						100	1,600		
Depth						732						

External static pressure

Five-stage external static pressure settings provide flexibility for duct extension, branching and air outlet configuration and are adjustable to meet different application conditions. Setting ranges to a maximum of 150Pa.

External static pressure setting

 Series
 20
 25
 32
 40
 50
 63
 71
 80
 100
 125
 140

 PEFY-P VMA(L)
 35/50/70/100/150Pa
 35/50/70/100/150/150
 35/50/70/100/150/150

Drain Pump Option

The line-up consists of two types, models with or without a built-in drain pump allowing more freedom in piping layout design.



PEFY-P VMA-E Drain pump built-in



PEFY-P VMAL-E No Drain pump

* Units with a "L" at the end of the model name are not equipped with a drain pump.

Analogue input

Analogue input allows unit to control the fan speed setting in conjunction with damper condition.

IT terminal

IT terminal is available. For details, contact your local distributor.

									000			
Power	001150	2		PEFY-P20VMA(L)-I	E PEFY-P25VM/	()		VMA(L)-E		/-P40VMA(L)-E	PEFY-P50VMA(L)-E
			kW	2.2	2.8	1-р	nase 220-230 3.	0-240V 50 / 60	HZ	4.5	5.6	
Cooling (Nomin		*1	BTU/h	7,500	9,600		12,3			4.5	19,100	
Heating	,		kW								,	
(Nomin		*2	BTU/h	2.5	3.2		4.			5.0 17,100	6.3	
Power	<u> </u>	∠ Cooling *3	kW	8,500 0.06 [0.04]	10,900	11	0.07		0.09 [0.07]		21,500	
	- H	•	kW		`	ŀJ					0.11 [0.09]	
consum		•	A	0.04	0.04	1	0.0			0.07	0.09	
Current		Cooling *3 Heating *3	A	0.53 [0.42]	0.53 [0.42		0.55			0.64 [0.53]	0.74 [0.63]	
Externa		Ũ	A	0.42	0.42		Galvanized			0.53	0.63	
LAGINA		11	mm	250 x 700 x 732	250 x 700 x	700		0 x 732	25	0 x 900 x 732	250 x 900 x 73	22
Dimens	sion H	l x W x D	in.	9-7/8 x 27-9/16 x 28-			9-7/8 x 27-9			35-7/16 x 28-7/8	9-7/8 x 35-7/16 x 2	
Net we	iaht		kg(lbs)	23 (51) [22 (49)]	23 (51) [22 (23 (51)			(58) [25 (56)]	26 (58) [25 (56	
Heat ex	-	der	kg(ibs)	23 (31) [22 (49)]	23 (31) [22 (/-	. , ,	fin and coppe		(56) [25 (50)]	20 (36) [23 (36	2)]
Tieat er	<u> </u>	x Quantity				010551	Sirocco		r tube)			
	туре	s x Quantity	m³/min	6.0 - 7.5 - 8.5	6.0 - 7.5 - 8	2.5	7.5 - 9.0		10	0 - 12.0 - 14.0	12.0 - 14.5 - 17	7.0
	Airflo	ow rate	L/s	100 - 125 - 142	100 - 125 -		125 - 15			7 - 200 - 233	200 - 242 - 28	
Fan	(Low	-Mid-High)	cfm	212 - 265 - 300	212 - 265 - 3		265 - 3			7 - 200 - 233 3 - 424 - 494	424 - 512 - 60	
	Extor	rnal static	GIII	212-200-300	212-200-	500	200 - 3	10-0/1	35	<u>5 - 424 - 494</u>	424 - 312 - 60	
	press		Ра	<35> - 50 - <70> - <100> - <	150> <35> - 50 - <70> - <10	0> - <150>	<35> - 50 - <70>	- <100> - <150>	<35> - 50	- <70> - <100> - <150>	<35> - 50 - <70> - <100>	- <150>
	Type							notor				
Motor	Outp		kW	0.085	0.085		0.0			0.085	0.085	
Air filter		Jui	KVV	0.005	0.005		PP honeyc			0.005	0.005	
All Intel		Liquid (R410A)		6.35 (1/4) Brazed	6.35 (1/4) Bra	and	6.35 (1/4		6.2	5 (1/4) Brazed	6.35 (1/4) Braz	rod
Refrigera		(R22,R407C)	mm(in.)	6.35 (1/4) Brazed	6.35 (1/4) Bra		6.35 (1/4			5 (1/4) Brazed	9.52 (3/8) Braz	
pipe diar	- H	(R410A)		12.7 (1/2) Brazed	12.7 (1/20) Br		12.7 (1/2)	,		(1/20) Brazed	12.7 (1/2) Braz	
pipe ulai		(R22,R407C)	mm(in.)	12.7 (1/2) Brazed	12.7 (1/20) Bi 12.7 (1/20) Bi		12.7 (1/2)	,		(1/20) Brazed 7 (1/2) Brazed	15.88 (5/8) Braz	
Field dr		be diameter	mm(in.)	O.D.32 (1-1/4)	0.D.32(1-1		0.D.32	/		.D.32 (1-1/4)	0.D.32 (1-1/2	
			. ,	anechoic room)	0.0.32(1-1	/4)	0.0.32	(1-1/4)	0	.D.32 (1-1/4)	0.0.32 (1-1/-	r)
		ah) *3 *5	dB(A)	26-28-29	26-28-29		28-3	0-34		28-30-34	28-32-35	
(LOW-IV)	ilu-i ilg	*3 *6	dB(A)	23-25-26	23-25-26		23-2			23-27-30	25-29-32	
		0 0	uD(//)	20 20 20	20 20 20	·	202	0 20		20 21 00	20 20 02	
				PEFY-P63VMA(L)-E	PEFY-P71VMA(L)-E				~ /	PEFY-P125VMA(L)-EPEFY-P140VN	1A(L)-E
Power	source	е				1-р	hase 220-230	0-240V 50 / 60	Hz			
Cooling	j capa	icity *1	kW	7.1	8.0		9.0	11.2		14.0	16.0	
(Nomin		*1	BTU/h	24,200	27,300	3	0,700	38,20		47,800	54,600	
Heating			kW	8.0	9.0		10.0	12.5		16.0	18.0	
(Nomin	. ,	*2	BTU/h	27,300	30,700	3	4,100	42,70	0	54,600	61,400	
Power	- H	Cooling *3	kW	0.12 [0.10]	0.14 [0.12]	0.1	4 [0.12]	0.24 [0.	22]	0.34 [0.32]	0.36 [0.3	4]
consum	ption	Heating *3	kW	0.10	0.12		0.12	0.22		0.32	0.34	
Current		Cooling *3	A	1.01 [0.90]	1.15 [1.04]	1.1	5 [1.04]	1.47 [1.	36]	2.05 [1.94]	2.21 [2.1	0]
		Heating *3	A	0.90	1.04		1.04	1.36		1.94	2.10	
Externa	al finis	h						steel plate				
Dimens	sion H	l x W x D	mm	250 x 1,100 x 732	250 x 1,100 x 732	250 x 1	1,100 x 732	250 x 1,400		250 x 1,400 x 73		
			in.	9-7/8 x 43-5/16 x 28-7/8	9-7/8 x 43-5/16 x 28-7/8		3-5/16 x 28-7/8	9-7/8 x 55-1/8		9-7/8 x 55-1/8 x 28-7		
Net we	0		kg(lbs)	32 (71) [31(69)]	32 (71) [31 (69)]) [31 (69)]	42 (93) [41		42 (93) [41 (91)] 46 (102) [45	(10)]
Heat ex						Cross		fin and coppe	r tube)			
	Туре	x Quantity						fan x 2				
	Airflo	ow rate	m³/min	13.5 - 16.0 - 19.0	14.5 - 18.0 - 21.0		18.0 - 21.0	23.0 - 28.0		28.0 - 34.0 - 40.		
Fan		-Mid-High)	L/s	225 - 267 - 317	242 - 300 - 350	242 -	300 - 350	383 - 467	- 550	467 - 567 - 667	492 - 592 -	700
. an	(2011	iviid Flight)	cfm	477 - 565 - 671	512 - 636 - 742	512 -	636 - 742	812 - 989 -	1,165	989 - 1,201 - 1,4	1,042 - 1,254	- 1,483
	Exter	rnal static sure *4	Ра	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <	70> - <100> - <150>	<35> - 50 - <70> - <	100> - <150>	<35> - 50 - <70> - <100> - <	150> <35> - 50 - <70> - <10	/0> - <150
Motor	Туре)					DC r	notor				
Motor	Outp		kW	0.121	0.121	().121	0.244	ļ	0.244	0.244	
Air filter								omb fabric.			1	
		Liquid (R410A)		9.52 (3/8) Brazed	9.52 (3/8) Brazed	9.52 (3	3/8) Brazed	9.52 (3/8) E	Brazed	9.52 (3/8) Braze	d 9.52 (3/8) Br	azed
Refrigera		(R22,R407C)	mm(in.)	9.52 (3/8) Brazed	9.52 (3/8) Brazed		3/8) Brazed	9.52 (3/8) E		9.52 (3/8) Braze		
pipe diar	- H	Gas (R410A)		15.88 (5/8) Brazed	15.88 (5/8) Brazed		5/8) Brazed	15.88 (5/8)		15.88 (5/8) Braze		
		(R22,R407C)	mm(in.)	15.88 (5/8) Brazed	15.88 (5/8) Brazed		5/8) Brazed	19.05 (3/4)		19.05 (3/4) Braze		
		diameter	mm(in)	O D 32 (1-1/4)	O D 32 (1-1/4)		32 (1-1/4)			O D 32 (1-1/4)		

Notes:

(Low-Mid-High)

[] is in case of PEFY-P VMAL-E *1

Field drain pipe diameter mm(in.) O.D.32 (1-1/4)

Sound pressure level (measured in anechoic room)

*3 *5 dB(A)

*3 *6 dB(A)

[] is in case of PEFY-P VMALE Nominal cooling conditions Indoor: 27°CDB/19°CWB(81°FDB/66°FWB), Outdoor: 35°CDB(95°FDB) Pipe length: 7.5m(24-9/16t), Level difference: 0m(0ft.) Nominal heating conditions Indoor: 20°CDB(68°FDB), Outdoor: 7°CDB/6°CWB(45°FDB/43°FWB) Pipe length: 7.5m(24-9/16t), Level difference: 0m(0ft.) The values are measured at the rated external static pressure. The rated external static pressure is shown without < >.The factory setting is the rated value.

29-32-36

25-29-33

O.D.32 (1-1/4)

30-34-38

26-29-34

O.D.32 (1-1/4)

30-34-38

26-29-34

- *2
- *3 *4
- *5 Measured in anechoic room with a 1m air inlet duct and 2m air outlet duct attached to the unit and 1.5m below the unit.

O.D.32 (1-1/4)

32-37-41

28-33-37

2m 1m Measurement location

O.D.32 (1-1/4)

36-41-45

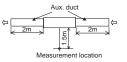
33-37-42

O.D.32 (1-1/4)

35-40-44

32-36-40

Measured in anechoic room with a 2m air inlet duct and 2m air outlet *6 duct attached to the unit and 1.5m below the unit.



INDOOR UNIT Ceiling concealed type PEFY-P VMH(S)-E



High Static Pressure

Increased design flexibility from sufficient external static pressure allows authentic duct air-conditioning with an elegant interior layout.



High static pressure of 200 Pa or higher

The additional external static pressure capacity provides flexibility for duct extension, branching and air outlet configuration.

PEFY-P	VMH-E	P40	P40 P50 P63 P71 P80 P100 P125 P140							P200	P250
External static	220V		50/100/200								
	230/240V										
pressure (Pa)	380V									110	/220
(*/	400/415V										/260

PEFY-P VMHS-E	P200	P250
External static pressure (Pa)	<50>-<100>-150	0-<200>-<250>*

The rated external static pressure is shown without < > The factory setting is the rated value.

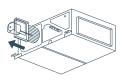
Reduced noise thanks to the use of newly designed centrifugal fan

Sound pressure level table (Standard static pressure 220V)

										dB(A)
Sound pressure Level	Capacity		P40	P50	P63	P71	P80	P100	P125	P140
	Fan Speed	High	34	34	38	39	41	42	42	42
		Low	27	27	32	32	35	34	34	34

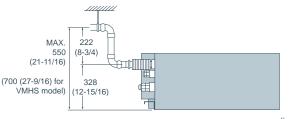
One-side maintenance

All maintenance to the unit, including fan inspection and fan motor removal, can be conducted from the inspection opening on one side. (VMH model only)



Drain pump (option) ensures up to 550mm (21-11/16in.) for VMH model / 700mm (27-9/16in.) for VMHS model of lift

The introduction of an upper drain pump allows the drain connection to be raised as high as 550mm(21-11/16in.) for VMH model/700mm (27-9/16in.) for VMHS model, allowing more freedom in piping layout design and reducing horizontal piping requirements.





Power	source			PEFY-P40VMH-E	PEFY-P50VMH-E		PEFY-P71VMH-E	PEFY-P80VMH-E / 1-phase 220-240		PEFY-P125VMH-E	PEFY-P140VMH-E	
		*1	kW	4.5	5.6	7.1	8.0	9.0	11.2	14.0	16.0	
Cooling	g capacit	y *1	BTU/h	15,400	19,100	24,200	27,300	30,700	38,200	47,800	54,600	
Lleating		*1	kW	5.0	6.3	8.0	9.0	10.0	12.5	16.0	18.0	
Heating	g capacit	^{.y} *1	BTU/h	17,100	21,500	27,300	30,700	34,100	42,700	54,600	61,400	
Power		Cooling	kW		/ 0.23	0.24 / 0.30	0.26 / 0.33	0.32 / 0.40		/ 0.58	0.48 / 0.59	
consun	nption	Heating	kW	0.19		0.24 / 0.30	0.26 / 0.33	0.32 / 0.40		/ 0.58	0.48 / 0.59	
Current	t	Cooling	A	0.88		1.12 / 1.38	1.20 / 1.51	1.47 / 1.83	2.34		2.35 / 2.70	
		Heating	A	0.88	/ 1.06	1.12 / 1.38	1.20 / 1.51	1.47 / 1.83	2.34	/ 2.66	2.35 / 2.70	
Externa	al finish							anized			-	
Dimens	sion H x	WxD	mm		380 x 750 x 900			000 x 900		380 x 1,200 x 90		
Mature	indut		in.	15	x 29-9/16 x 35-7			8 x 35-7/16	18	5 x 47-1/4 x 35-7	/16	
Net we	xchanger	r	kg(lbs.)	44 (96)	45	(100)		(111) ate fin and coppe	r tubo)	70 (155)		
Tieat e		Quantity				Sirocco fan x 1		ate nin and coppe		Sirocco fan x 2		
			m³/min	10.0	-14.0	13.5-19.0	15.5-22.0	18.0-25.0	26.5	-38.0	28.0-40.0	
	Airflow	rate	L/s		-233	225-317	258-367	300-417		-633	467-667	
Fan	(Lo-Hi)		cfm		-494	477-671	547-777	636-883		1342	989-1413	
	External static	220V	Ра				50 · 10	00 · 200				
	pressure *2	230,240V	Pa				100 - 1	50 · 200				
M-1	Туре						1-phase ind	luction motor				
Motor	Output	*3	kW	0.	08	0.12	0.14	0.18		0.26		
Air filte	r (option))				Synth	ethic fiber unwo	en cloth filter (lor	g life)			
		Gas	mm(in.)	a10 7	(ø1/2)			a1E 00	3 (05/8)			
Refrige	erant	(Flare)	()	.2.7	(20112)			010.80	3 (ø5/8)			
pipe dia	ameter	Liquid	mm(in.)	a6 35	(ø1/4)			ø9.52	(ø3/8)			
		(Flare)	. ,	20.00	(91)4)			20.02	(20/0)			
	ain pipe		mm(in.)					2 (1-1/4)				
	pressure		dB(A)		-34	32-38	32-39	35-41		34-42		
level (L	o-Hi) *6	230,240V	dB(A)	31	-37	36-41	35-41	38-43		38-44		
David				PEFY-P2		Iz / 3N ~ 380-415	50VMH-E		00VMHS-E		250VMHS-E	
Power	source	*1	1.14/	3-pnas 22.			3.0			0-240V 50Hz / 1-phase 220-240V 60Hz 28.0		
Cooling	g capacit		kW BTU/h	76,4		-	500	22			28.0 5,500	
		*1	kW	25.			1.5	25				
Heating	g capacit	y *1	BTU/h	85,3			,500	85,3		31.5		
Power		Cooling	kW	0.99 /		1.23		0.63 *7).82 *7	
consun	notion	Heating	kW	0.99 /		1.23			63 *7).82 *7	
oonoun	Ľ	380-415V	A	1.62 /			/ 2.30	_			_	
. .	Cooling	220-230-240V	A	-		-	-	3.47-3.3	3.47-3.32-3.18 *7		1.43-4.14 *7	
Current	Heating	380-415V	A	1.62 /	1.86	2.00	/ 2.30	-			-	
	Tieating	220-230-240V	А	-		-	-	3.47-3.3	32-3.18 *7	4.72-4	1.43-4.14 *7	
Externa	al finish					anized				d steel plate		
Dimens	sion H x	WxD	mm		- ,	50 x 1,120			- ,	50 x 1,120		
		II X D	in.			9-1/4 x 44-1/8				-1/4 x 44-1/8		
Net we			kg(lbs.)	-		(221)		97 (2	/) (221)	
Heat ex	xchangei			Cross		late fin and coppe	r tube)	Cross	fin (Aluminum pl		er tube)	
	Type x	Quantity	-1 -1	50		o fan x 2	2.0			o fan x 2		
	Airflow	rato	m³/min L/s	58. 96			2.0		-		-	
		ale	cfm	204			i43	_			_	
			m³/min				-	50.0-61	0-72 0	58.0-7		
Fan		Lo-Mid-Hi	L/s	-		-	_	833-101			183-1400	
			cfm	_		-	_	1766-21			2507-2966	
		380V	Pa	-	110	· 220 *4						
	External static	400,415V	Pa		130	· 260 *4			-	-		
	pressure		Pa			_			<50>-<100>-15	0-<200>-<250>	*8	
			mmH ₂ O			_			<5.1>-<10.2>-15	.3-<20.4>-<25.5	> *8	
Motor	Туре				3-phase inc	luction motor			DC r	DC motor		
	Output		kW		6 *5		08 *5	0.8		0.87		
Air filte	r(option)			Synth	ethic fiber unwo	ven cloth filter (lon	ıg life)	Synthethic fiber unw	oven cloth filter (long	h filter (long life filter) and filter box are recomm		
		Gas	mm(in.)	ø19.05	(ø3/4)	ø22.2	(ø7/8)	ø19.05	(ø3/4)	ø22 :	2 (ø7/8)	
		(Brazed)					· · · ·	210.00	,	<i>VLL</i> .	(
Refrige					a0.50	2 (ø3/8)			ø9.52	(ø3/8)		
		Liquid	mm(in.)		,		· · · ·		. ,			
Refrige pipe dia	ameter	(Brazed)				· · /			0.0			
Refrige pipe dia		(Brazed) diameter	mm(in.)	42 (4400-) /	O.D. 3	2 (1-1/4)	(E2 (220B-) +c			2 (1-1/4)		
Refrige pipe dia Field dr	ameter	(Brazed) diameter 380V	mm(in.) dB(A)	, ,	O.D. 3 45 (220Pa) *6	2 (1-1/4) 50 (110Pa)	/ 52 (220Pa) *6			2 (1-1/4)	_	
Refrige pipe dia Field dr	ameter ain pipe ((Brazed) diameter	mm(in.)	, ,	O.D. 3	2 (1-1/4) 50 (110Pa)	/ 52 (220Pa) *6 / 54 (260Pa) *6	_			— — -42-46 *9	

Notes:

*1 Cooling/heating capacity indicates the maximum value at operation under the following condition. Cooling Indoor : 27°C(81°F)DB/19°C(66°F)WB, Outdoo r: 35°C(95°F)DB Heating Indoor : 20°C(68°F)DB, Outdoor : 7°C(45°F)DB/6°C(43°F)WB

*2 The external static pressure is set to 100Pa (at 220V) /150Pa (at 230, 240V) at factory shipment.

*3 The value are that at 240V.

*4 The external static pressure is set to 220Pa (at 380V) /260Pa (at 400, 415V) at factory shipment. *5 The value are that at 415V. *6 It is measured in anechoic room.

*7 The values are measured at the rated external static pressure.

*8 The rated external static pressure is shown without < >. The factory setting is the rated value.

*9 It is measured at the rated external static pressure in anechoic room.

INDOOR UNIT Fresh Air Intake Type

PEFY-P VMH-E-F





Fresh Air can be taken in with temperature control. Ideal for Offices, Stores and Restaurants.



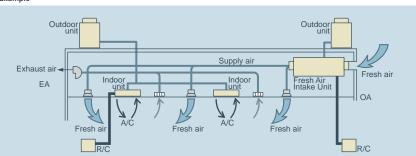
The Fresh Air intake indoor unit can be installed in any place.

The Fresh Air intake indoor unit can take fresh outdoor air into any building in any place at any time.

> Office, Lobby, Workshop, Rest room, Nursing home, Smoking corner, Kitchen in restaurant

* Limits of capacity connectable to outdoor unit Max. 110% of outdoor unit capacity, except heating at outdoor temperature of less than -5°C(23°F) (100%).

Example



< Note>

Fan remains in operation during Thermo-OFF. Using this model with another type of indoor unit is recommended to prevent cold draft which is caused due to intaken fresh air.



_				PEFY-P80VMH-E-F	PEFY-P140VMH-E-F
Power :	source			1-phase 220-240V 50Hz /	
		*1	kW	9.0	16.0
Cooling	g capacity	^y *1	BTU/h	30,700	54.600
		*1	kW	8.5	15.1
Heating	g capacit	^y *1	BTU/h	29,000	51,500
Power Cooling kW			0.16 / 0.21	0.29 / 0.33	
consur	mption	Heating	kW	0.16 / 0.21	0.29 / 0.33
~		Cooling	A	0.67 / 0.91	1.24 / 1.48
Current	t	Heating	A	0.67 / 0.91	1.24 / 1.48
Externa	al finish	×		Galva	nized
Dimens	sion			380 x 1000 x 900	380 x 1200 x 900
HxW>	хD		mm(in.)	(15 x 39-3/8 x 35-7/16)	(15 x 47-1/4 x 35-7/16)
Net wei	ight		kg(lbs.)	50 (111)	70 (155)
Heat ex	kchanger	r		Cross fin (Aluminum pla	ate fin and copper tube)
	Type x	Quautity		Sirocco fan x 1	Sirocco fan x 2
			m³/min	9.0	18.0
	Airflow	rate	L/s	150	300
Ton			cfm	318	636
Fan	External	208V	Pa	35 - 85 - 170	35 - 85 - 170
	static	220V	Pa	40 - 115 - 190	50 - 115 - 190
	pressure	230V	Pa	50 - 130 - 210	60 - 130 - 220
	(Lo-Mid-Hi)	240V	Pa	80 - 170 - 220	100 - 170 - 240
Motor	Туре			1-phase indu	
WOLUI	Output		kW	0.09 (at 220V)	0.14 (at 220V)
Air filter	r (option))		Synthetic fiber unwove	en cloth filter (long life)
		Gas	mm(in)	-45.00	(
Refrige	rant	(Flare)	mm(in.)	ø15.88	(Ø5/8)
pipe dia	ameter	Liquid	mm(in.)	ø9.52	(@3/8)
		(Flare)			
	ain pipe o		mm(in.)	O.D.32	
Sound pre	ssure level		dB(A)	27 - 38 - 43	28 - 38 - 43
Lo-Mid-Hi	i) *2	230, 240V	dB(A)	33 - 43 - 45	34 - 43 - 45
				PEFY-P200VMH-E-F	PEFY-P250 VMH-E-F
Power	source			3-phase 380-415V 50H	
0	000.00		kW	22.4	28.0
		itv		70 400	
Coolin	g capac	ity	BIU/h I	(0.400	95.500
		-	BTU/h kW	76,400 21.2	95,500 26,5
	g capac g capac	-	kW	21.2	26.5
Heatin	g capac	ity	kW BTU/h	21.2 72,300	26.5 90,400
-leatin Power	g capac	ity Cooling	kW BTU/h kW	21.2 72,300 0.34 / 0.42	26.5 90,400 0.39 / 0.50
Heatin Power consu	g capac	ity Cooling Heating	kW BTU/h kW kW	21.2 72,300 0.34 / 0.42 0.34 / 0.42	26.5 90,400 0.39 / 0.50 0.39 / 0.50
Heatin Power consu	g capac	ity Cooling Heating Cooling	kW BTU/h kW kW A	21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74	26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86
Heatin Power consu Curren	g capac mption	ity Cooling Heating Cooling Heating	kW BTU/h kW kW	21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74	26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86
Heatin Power consu Curren Extern	g capac mption nt al finish	ity Cooling Heating Cooling Heating	kW BTU/h kW kW A A A	21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galva	26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 nized
Heating Power consu Curren Externa	g capac mption nt al finish sion	ity Cooling Heating Cooling Heating	kW BTU/h kW kW A	21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galva 470 x 125	26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 inized i0 x 1120
Heating Power consu Curren Externa Dimena H x W b	g capac imption it al finish sion x D	ity Cooling Heating Cooling Heating	kW BTU/h kW A A A mm(in.)	21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galva 470 x 125 (18-9/16 x 49	26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.20 0 x 1120 1/4 x 44-1/8)
Heatin Power consu Curren Extern Dimen H x W 3	g capac mption at al finish sion x D eight	ity Cooling Heating Cooling Heating	kW BTU/h kW kW A A A	21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galvz (18-9/16 x 49 100	26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 1/4 x 44-1/8) (221)
Heatin Power consu Curren Extern Dimen H x W 3	g capac mption at al finish sion x D bight xchange	ity Cooling Heating Cooling Heating	kW BTU/h kW A A A mm(in.)	21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galva 470 x 125 (18-9/16 x 49	26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 1120 1/4 x 44-1/8) 221) ate fin and copper tube)
Heating Power consu Curren Externa Dimena H x W b Net we	g capac mption at al finish sion x D bight xchange	ity Cooling Heating Cooling Heating	kW BTU/h kW A A Mm(in.) kg(lbs.)	21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galva 470 x 125 (18-9/16 x 49 100 Cross fin (Aluminum pla	26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.44 × 44-1/8) 221) 221) te fin and copper tube) fan x 2
Heating Power consu Curren Externa Dimena H x W b Net we	g capac mption it al finish sion x D eight xchange Type x	ity Cooling Heating Cooling Heating er Quautity	kW BTU/h kW A A mm(in.) kg(lbs.) m³/min	21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galva 470 x 125 (18-9/16 x 49 100 Cross fin (Aluminum pla Sirocco 28	26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.2120 0 x 1120 1/4 x 44-1/8) 221) tate fin and copper tube) fan x 2 35
Heating Power consu Curren Extern Dimen H x W X Net we Heat e	g capac mption at al finish sion x D bight xchange	ity Cooling Heating Cooling Heating er Quautity	kW BTU/h kW A A mm(in.) kg(lbs.) m³/min L/s	21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galva 470 x 125 (18-9/16 x 49 100 Cross fin (Aluminum pla Sirocco 28 467	26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 1/4 x 44-1/8) (221) 221) tet fin and copper tube) fan x 2 35 583
Heating Power consu Curren Extern Dimen H x W X Net we Heat e	g capac mption it al finish sion x D eight xchange Type x Airflow	ity Cooling Heating Cooling Heating er Quautity rate	kW BTU/h kW A mm(in.) kg(lbs.) m³/min L/s cfm	21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galva 470 x 125 (18-9/16 x 49 100 Cross fin (Aluminum pla Sirocco 28 467 989	26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 1/4 x 44-1/8) 221) 221) ate fin and copper tube) fan x 2 35 583 1236
Heating Power consu Curren Extern Dimen 1 x W D Net we Heat e	g capac mption it al finish sion x D eight xchange Type x Airflow External	ity Cooling Heating Cooling Heating er Quautity rate 380V	kW BTU/h kW A A A (kg(lbs.) kg(lbs.) kg(lbs.) cfm Pa	21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galva 470 x 125 (18-9/16 x 49 100 Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200	26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.1120 1/4 x 44-1/8) 221) tet fin and copper tube) fan x 2 35 583 1236 110 / 190
Heating Power consu Curren Extern Dimen 1 x W D Net we Heat e	g capac mption al finish sion x D eight xchange Type x Airflow External static	ity Cooling Heating Cooling Heating er Quautity rate 380V 400V	kW BTU/h kW A A A mm(in.) kg(lbs.) m³/min L/s cfm Pa Pa	21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 0.58 / 0.74 Calva (18-9/16 x 49 100 Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200 150 / 210	26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.4120 0 x 1120 1/4 x 44-1/8) 221) ate fin and copper tube) fan x 2 35 583 1236 110 / 190 120 / 200
Teating Power Consu Curren Extern Dimens T x W 2 Net we Teat e	g capac mption nt al finish sion x D eight xchange Type x Airflow External static pressure	ity Cooling Heating Cooling Heating er Quautity rate 380V 400V	kW BTU/h kW A A A (kg(lbs.) kg(lbs.) kg(lbs.) cfm Pa	21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 0.58 / 0.74 Cross fin (Aluminum pla (18-9/16 x 49 100 Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200 150 / 210 160 / 220	26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.06 / 0.86 0.1120 1/4 x 44-1/8) (221) 1/4 x 44-1/8) (221) tate fin and copper tube) fan x 2 35 583 1236 110 / 190 120 / 200 130 / 210
Teating Power Consu Curren Extern Dimens T x W 2 Net we Teat e	g capac mption at finish sion x D eight xchange Type x Airflow External static pressure Type	ity Cooling Heating Cooling Heating er Quautity rate 380V 400V 415V	kW BTU/h kW kW A A A Mm(in.) kg(lbs.) kg(lbs.) kg(lbs.) kg(lbs.) Pa Pa Pa Pa Pa Pa Pa Pa	21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galva 470 x 125 (18-9/16 x 49 100 Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200 150 / 210 160 / 220 3-phase ind	26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 1/4 x 44-1/8) (221) 221) 221) 221) 221) 221) 221) 22
Heatin Power Corren Extern Dimen I x W 3 Net we Heat e	g capac mption it al finish sion x D eight xchange Type x Airflow External static pressure Type Output	Cooling Heating Cooling Heating Heating er Quautity rate 380V 400V 415V	kW BTU/h kW A A A mm(in.) kg(lbs.) m³/min L/s cfm Pa Pa	21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 0.58 / 0.74 Galva 470 x 125 (18-9/16 x 49 100 Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200 150 / 210 160 / 220 3-phase ind 0.20	26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.221) 221) 221) 221) 221) 221) 221) 221)
Heatin Power Corren Extern Dimen J x W 3 Net we Heat e	g capac mption at finish sion x D eight xchange Type x Airflow External static pressure Type	er Quautity rate 380V 400V 415V	kW BTU/h kW kW A A A Mm(in.) kg(lbs.) kg(lbs.) L/s cfm Pa Pa Pa Pa Pa kW	21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 0.58 / 0.74 Galva 470 x 125 (18-9/16 x 49 100 Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200 150 / 210 160 / 220 3-phase ind 0.20	26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.1220 1/4 x 44-1/8) 221) 221) 221) 221) 221) 221) 221) 22
Heatin Power Curren Extern Dimen H x W 3 Net we Heat e Fan Motor	g capac mption at al finish sion x D eight xchange Type x Airflow External static pressure Type Output er (optio	Cooling Heating Cooling Heating Heating er Quautity rate 380V 400V 415V	kW BTU/h kW kW A A A Mm(in.) kg(lbs.) kg(lbs.) kg(lbs.) kg(lbs.) Pa Pa Pa Pa Pa Pa Pa Pa	21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 0.58 / 0.74 Galva 470 x 125 (18-9/16 x 49 100 Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200 150 / 210 160 / 220 3-phase ind 0.20	26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 1/4 x 44-1/8) (221) 1/4 x 44-1/8) (221) tate fin and copper tube) fan x 2 35 583 1236 110 / 190 120 / 200 130 / 210 uction motor 0.23
Heatin, Power consu Curren Extern. Dimen: H x W x Net we Heat e Fan	g capac mption at al finish sion x D aight xchange Type x Airflow External static pressure Type Output er (optio	Er Cooling Heating Cooling Heating er Quautity rate 380V 400V 415V mn) Gas (Flare)	kW BTU/h kW A A Mm(in.) kg(lbs.) m³/min L/s cfm Pa Pa Pa Pa Pa kW kw	21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 0.58 / 0.74 Galva 470 x 125 (18-9/16 x 49 100 Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200 150 / 210 160 / 220 3-phase ind 0.20	26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 inized i0 x 1120 1/14 x 44-1/8) 221) ate fin and copper tube) fan x 2 35 583 1236 110 / 190 120 / 200 130 / 210 uction motor 0.23 cloth filter (long life type)
Heatin Power Corsu Curren Extern: H x W J Net we Heat e Fan Motor	g capac mption at al finish sion x D eight xchange Type x Airflow External static pressure Type Output er (optio	Cooling Heating Cooling Heating Heating ar Quautity rate 380V 400V 415V Gas (Flare) Liquid	kW BTU/h kW kW A A A Mm(in.) kg(lbs.) kg(lbs.) L/s cfm Pa Pa Pa Pa Pa kW	21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 0.58 / 0.74 Galva 470 x 125 (18-9/16 x 49 100 Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200 150 / 210 160 / 220 3-phase ind 0.20	26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.1120 0 x 1120 1.1/4 x 44-1/8) 221) tate fin and copper tube) fan x 2 35 583 1236 110 / 190 120 / 200 130 / 210 uction motor 0.23 cloth filter (long life type)
Heatin Power consu Curren Extern Dimen H x W 3 Net we Heat e Fan Motor Fan	g capac mption al finish sion x D jight xxchange Type x Airflow External static pressure Type Output er (optio	er Quautity Heating Cooling Heating Heating ar Quautity rate 380V 400V 415V 400V 415V	kW BTU/h kW A A A (kg(lbs.) kg(lbs.) m/min L/s cfm Pa Pa Pa Pa Pa kW kw kw kw	21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 0.59 / 0.74 0.58 / 0.74 / 0.00 0.59 / 0.50 / 0.5	26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.50 0.68 / 0.86 0.51 0.52 0.53 0.54 / 0.86 0.55 0.58 / 0.86 0.58 / 0.86 0.51 0.52 1120 110 120 200 120 / 200 130 / 210 uction motor 0.23 cloth filter (long life type) \alpha22.2 (\alpha7/8) (\alpha3/8)
Heatin Power Curren Extern Dimen H x W 2 Heat e Fan Motor Air filte Refriggpipe di	g capac mption it al finish sion x D eight xchange Type x Airflow External static pressure Type Output er (optio erant ameter	cooling Heating Cooling Heating Heating Heating Heating rate 380V 400V 415V Gas (Flare) Liquid (Flare) diameter	kW BTU/h kW A A mm(in.) kg(lbs.) ms/min L/s cfm Pa Pa Pa Pa Pa Ra Pa mm(in.) mm(in.)	21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 0.59 / 0.74 0.59 / 0.74 0.20 5 ynthetic fiber unmoven ø19.05 (ø3/4) 0.20 0.D.32	26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 00 x 1120 1/4 x 44-1/8) 221) ate fin and copper tube) fan x 2 35 583 110 / 190 120 / 200 130 / 210 uction motor 0.23 cloth filter (long life type) ø22.2 (ø7/8) (ø3/8) (1-1/4)
Heatin Power consu Curren Extern Dimen H x W 2 Net we Heat e Fan Motor Air filte Refriggpipe di	g capac mption al finish sion x D jight xxchange Type x Airflow External static pressure Type Output er (optio	er Quautity Heating Cooling Heating Heating ar Quautity rate 380V 400V 415V 400V 415V	kW BTU/h kW A A A (kg(lbs.) kg(lbs.) m/min L/s cfm Pa Pa Pa Pa Pa kW kw kw kw	21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 0.59 / 0.74 0.58 / 0.74 / 0.00 0.59 / 0.50 / 0.5	26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.50 0.68 / 0.86 0.51 0.52 0.53 0.54 / 0.86 0.55 0.58 / 0.86 0.58 / 0.86 0.51 0.52 1120 110 120 200 120 / 200 130 / 210 uction motor 0.23 cloth filter (long life type) \alpha22.2 (\alpha7/8) (\alpha3/8)

Notes:

The cooling and heating capacites are the maximum capacites that were obitained by operating in the above air conditions and with a refrigerant pipe of about 7.5m.
 The actual capacity characteristics vary with the combination of indoor and outdoor units. See the technical infomation.
 The operating noise is the data that was obitained by measuring it 1.5m from the the bottom of the unit in an anechoic room. (Noise meter A-scale value)
 The direct of Electrical characteristic indicates at 240V 50Hz/230V/50Hz (PEFY-P80, 140VHM-E-F type), at 220Pa setting at 415V (PEFY-P200, 250VMH-E-F type).
 When the 100% fresh air indoor units are connected, the maximum connectable indoor units to 1 outdoor unit are as follows

•	When the 100% fresh air indoor units are connected, the	e maximum connecta	J
	Heat pump models	Cooling only	
		1100/	

110%(100% in case of heating below-5°C(23°F))	110%	
Operational temp range is / Cooling : from 21°C/70°		•

10% (100% in Case of ineating belows of (25 F))
10%
10% (100% in Case of ineating belows of (25 F))
10% (25 F) (20 F) (25 F) (20 F) (25 F) (2

Indoor Unit

INDOOR UNIT Ceiling suspended type

PCFY-P VKM-E



Designed for ultra-quiet operation and easy maintenance, provides exceptionally comfortable air-conditioning.



Extra slim, extra stylish

Sleek and slim with stylishly curved lines, the PCFY series blends right into any interior. It also features a single air outlet which allows the auto vane to act as a shutter when the unit is turned off.

Auto vane distributes air evenly

The auto vane swings up and down automatically to distribute air more evenly to every corner of the room.

Long life filter as standard

Long life filter is equipped as standard enabling up to 2,500 hours of operation (office use) without maintenance.

Keeps airflow at optimum level according to ceiling height

The most suitable airflow can be selected for ceilings up to 4.2m high, enhancing air-conditioning efficiency and comfort. (P100/P125)

	Standard	High ceiling
Ceiling height	3.0(9-13/16)	4.2(13-3/4)
		m (ft)

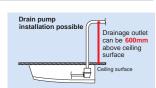
Simplified installation

The direct suspension system eliminates the task of removing the attachment fixture from the main unit, greatly shortening installation time.

Indoor Unit

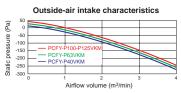
Drain pump option available with all models

The pumping height of the optional drain pump has been increased from 400mm to 600 mm, expanding flexibility in choosing unit location during installation work.



Outside-air intake

Units are equipped with a knock-out hole that enables the induction of fresh outside-air.



Equipped with automatic air-speed adjustment

In addition to the conventional 4-speed setting, units are now equipped with and automatic air-speed adjustment mode. This setting automatically adjusts the air-speed to conditions that match the room environment. At the start of heating/cooling operation, the airflow is set to high-speed to quickly heat/cool the room. When the room temperature reaches the desired setting, the airflow speed is decreased automatically for stable comfortable heating/cooling operation.



				PCFY-P40VKM-E	PCFY-P63VKM-E	PCFY-P100VKM-E	PCFY-P125VKM-E			
Power	source				1-phase 220-240V 50H	z / 1-phase 220V 60Hz				
Casling		*1	kW	4.5	7.1	11.2	14.0			
Cooling capacit		^y *1	BTU/h	15,400	24,200	38,200	47,800			
Heating capaci		*1 kW		5.0	8.0	12.5	16.0			
		y *1	BTU/h	17,100	27,300	42,700	54,600			
Power		Cooling	kW	0.04	0.05	0.09	0.11			
consumption		Heating	kW	0.04	0.05	0.09	0.11			
Current		Cooling	A	0.28	0.33	0.65	0.76			
Curren	l	Heating	A	0.28	0.33	0.65	0.76			
Externa	al finish(N	Munsell N	lo.)		6.4Y 8	.9/ 0.4				
Dimon		W D	mm	230 x 960 x 680	230 x 1,280 x 680	230 x 1,6	600 x 680			
Dimens	sion H x	VV X D	in.	9-1/16 x 37-13/16 x 26-3/4	9-1/16 x 50-3/8 x 26-3/4	9-1/16 x 63 x 26-3/4				
Net we	ight		kg(lbs.)	24(53)	32 (71)	36 (79)	38 (84)			
Heat ex	xchangei	r		Cross fin (Aluminum fin and copper tube)						
	Type x	Quantity		Sirocco fan x 2 Sirocco fan x 3 Sirocco fan x 4						
	Airflow	*2	m³/min	10-11-12-13	14-15-16-18	21-24-26-28	21-24-27-31			
Fan	Lo-Mid2		L/s	167-183-200-217	233-250-267-300	350-400-433-467	350-400-450-517			
	(LO-IVIIUZ-	-iviiu i -rii)	cfm	353-388-424-459	494-530-565-636	742-847-918-989	742-847-953-1,095			
	External sta	atic pressure	Pa		()				
	Туре				DC n	notor				
Motor	Output		kW	0.090	0.095	0.1	60			
Air filte	r				PP Honeycor	mb (long life)				
Refrige	erant	Gas (Flare)	mm(in.)	ø12.7 (ø1/2)	ø15.88 (ø5/8)	ø15.88 (ø5/8) / ø19.0	5 (ø3/4) (Compatible)			
pipe dia	ameter	Liquid (Flare)	mm(in.)	ø6.35 (ø1/4)		ø9.52 (ø3/8)				
Field dr	ain pipe	diameter	mm(in.)		O.D. 2	26 (1)				
	pressure 2-Mid1-H		dB(A)	29-32-34-36	31-33-35-37	36-38-41-43	36-39-42-44			

Notes:

*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling Indoor : 27°C(80.6°F)DB/19°C(66.2°F)WB,Outdoor 35°C(95°F)DB Heating Indoor : 20°C(68°F)DB,Outdoor 7°C(44.6°F)DB/6°C(42.8°F)WB

*2 Airflw rate/Sound pressure level are shown in (low-middle 2-middle 1-high).

*3 It is measured in anechoic room.

INDOOR UNIT Wall mounted type



-	
PKFY-P VBM	PKFY-P VHM
-	

Elegant Design and Compact Dimensions Ideal for Offices, Stores and Residential Uses.



Capacity range									
P15	P20	P25	P32	P40	P50	P63	P100		
\bigcirc	\bigcirc	\bigcirc							
			\bigcirc	\bigcirc	\bigcirc				
						\bigcirc	\bigcirc		
	P15	P15 P20	P15 P20 P25	P15 P20 P25 P32	P15 P20 P25 P32 P40	P15 P20 P25 P32 P40 P50	P15 P20 P25 P32 P40 P50 P63		

4-way piping provides more flexibility in selecting installation sites

All piping including drainage can be connected from the rear, right, base, and left of the unit, providing much greater flexibility in piping and selecting installation site.

Flat panel & Pure white finish



Built-in signal receiver

design, adopting the flat panel layout.

changed from white to pure white.

PKFY-P VBM features

Compact profile

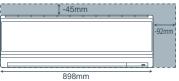
Quiet operation

PKFY-P VHM features

Compact size of 898mm

Light unit

Width size reduced to match small size buildings and offices.

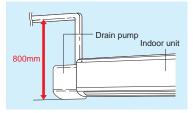


Comparison with PKFY-P VGM-E

Approx. 3kg reduced from conventional model (P32-50). Easier installation.

Drain pump (option)

The optional drain pump allows the drain connection to be raised as high as 800mm, allowing more freedom in piping layout design.



Indoor Unit

-				PKFY-P15VBM-E	PKFY-P20VBM-E	PKFY-P25VBM-E	PKFY-P32VHM-E	PKFY-P40VHM-E	PKFY-P50VHM-E	
Deuver				FKFT-FT3VDIVI-E		1-phase 220-240V 50F			FKFT-F30VHIVI-E	
Power	source	*1	1.3.47	1.7	2.2		5.6			
Cooling capac			kW			2.8	3.6	4.5		
		·	BTU/h	5,800	7,500	9,600	12,300	15,400	19,100	
Heating	n canac	itv *1	kW	1.9	2.5	3.2	4.0	5.0	6.3	
Tioutin	<u> </u>	,	BTU/h	6,500	8,500	10,900	13,600	17,100	21,500	
Power		Cooling *4	kW		0.04			0.04		
consun	nption	Heating	kW		0.04			0.03		
Curren	. !	Cooling *4	A		0.20			0.40		
Curren	۲ (Heating	A		0.20			0.30		
External finish(Munsell No.)			No.)		Plastic (1.0Y 9.2/0.2)			Plastic (1.0Y 9.2/0.2)		
Dimens	sion H	xWxD	mm(in.)	295 x 815 x 225 (11-5/8 x 32-1/8 x 8-7/8)			295 x 898	x 249(11-5/8 x 35-3/8	x 9-13/16)	
Net we	ight		kg(lbs.)	10 (23)			13(29)			
Heat ex	xchange	ər			Cross fin (Aluminum fin and copper tube)					
	Type x Quantity					Line flov	ow fan x 1			
		, *2	m³/min	4.9-5.0-5.2-5.3	4.9-5.2	-5.6-5.9	9-10-11	9-10.5-11.5	9-10.5-12	
Fan	Airflov		L/s	82-83-87-88	82-87	-93-98	150-167-183	150-175-192	150-175-200	
	(LO-IVIIC	l2-Mid1-Hi)	cfm	173-177-184-187	173-184	-198-208	318-353-388	318-371-406	318-371-424	
	External	static pressure	Pa				0			
	Туре			1-phase induction motor			DC motor			
Motor	Outpu	t	kW		0.017			0.030		
Air filte	r					PP Hor	leycomb			
		Gas							ø12.7 (ø1/2) / ø15.88 (ø5/8)	
Refrige	erant	(Flare)	mm(in.)			ø12.7 (ø1/2)			(Compatible)	
pipe dia		Liquid							ø6.35 (ø1/4) / ø9.52 (ø3/8)	
pipe un		(Flare)	mm(in.)		ø6.35 (ø1/4)				(Compatible)	
Field dr	ain pipe	diameter	mm(in.)			I.D.16	6 (5/8)		()	
	pressu						, , 			
			dB(A)	29-31-32-33	29-31	-34-36	34-37-41	34-38-41	34-39-43	
(Lo-Mid2-Mid1-Hi) *2 *3										

Notes:

*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling Indoor : 27°C(81°F)DB/19°C(66°F)WB,Outdoor 35°C(95°F)DB Heating Indoor : 20°C(68°F)DB,Outdoor 7°C(45°F)DB/6°C(43°F)WB

- *2 Airflow rate/Sound pressure level are in (low-middle2-middle1-high).
- *3 It is measured in anechoic room.
- *4 Electrical characteristic of cooling are included optional drain-pump.

				PKFY-P63VKM-E	PKFY-P100VKM-E			
Power	source			1-phase 220-230-240V 50	0Hz / 1-phase 220V 60Hz			
0	Cooling conacity	*1	kW	7.1	11.2			
Cooling	g capac	^{ity} *1	BTU/h	24,200	38,200			
11		*1	kW	8.0	12.5			
Heatin	g capac	^{ity} *1	BTU/h	27,300	42,600			
Power	(Cooling *4	kW	0.05	0.08			
consur	nption I	Heating	kW	0.04	0.07			
Curren	+	Cooling *4	А	0.37	0.58			
Curren	۲ I	Heating	A	0.30	0.51			
Extern	al finish	(Munsell N	lo.)	Plastic (1.0	Y 9.2/0.2)			
Dimen	sion H	хWхD	mm(in.)	365 x 1,170 x 295 (14-	3/8 x 46-1/16 x 11-5/8)			
Net we	ight		kg(lbs.)	21 (46)			
Heat e	xchange	ər		Cross fin (Aluminum fin and copper tube)				
	Type >	Quantity		Line flow				
	Airflov	*2	m³/min	16-20	20-26			
Fan	(Lo-Hi		L/s	267-333	333-433			
	(LO-11))	cfm	565-706	706-918			
	External s	static pressure	Pa	C)			
Motor	Туре			DC n	motor			
WOLDI	Outpu	t	kW	0.0				
Air filte	r			PP Hone	eycomb			
		Gas	mm(in.)	ø15.88 (ø5/8)	ø15.88 (ø5/8) / ø19.05 (ø3/4)			
Refrige	erant	(Flare)	()	13.88 (85/8)	(Compatible)			
pipe di	ameter	Liquid (Flare)	mm(in.)	ø9.52	(ø3/8)			
Field d	rain pipe	diameter	mm(in.)	I.D. 16	6(5/8)			
	Sound pressure level (Lo-Hi) *2 *3			39-45	41-49			

Notes:

*1 Cooling/heating capacity indicates the maximum value at operation under the following condition. Cooling Indoor : 27°C(81°F)DB/19°C(66°F)WB, Outdoor : 35°C(95°F)DB Heating Indoor : 20°C(68°F)DB, Outdoor : 7°C(45°F)DB/6°C(43°F)WB

*2 Airflow rate/Sound pressure level are in (low-high)

*3 It is measured in anechoic room.

*4 Electrical characteristic of cooling are included optional drain-pump.

INDOOR UNIT Floor standing exposed

PFFY-P VKM-E2

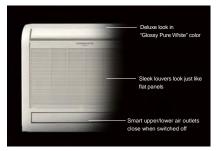


For living rooms, bed rooms, or offices. The latest Mitsubishi innovation – floor-standing air-conditioner sophisticated in design, rich in function.



Sophisticated Design

An innovative floor-standing air-conditioner. A mix of streamlined form and diversified function. Engineered to keep room walls free, furnish comfy



cooling in summer, toasty heating in winter.

The "Glossy Pure White" colour ensures a deluxe look, the perfect match for any room. Both upper and lower air outlets remain closed when switched OFF, in a smart and striking image.

A superb new air-conditioner from Mitsubishi, providing a handsome fit for your own distinctive interior.

Slim but Mighty

The unit body is slim and trim, the essence in compact. An ideal size for living rooms, bedrooms, and more. The removable and washable front panel makes cleaning simple.



allows your air-conditioner to stay beautiful while keeping its energy-efficient operation possible.

Quiet operation

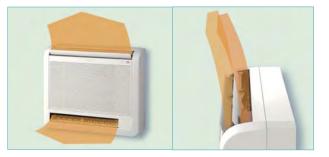
Mitsubishi Electric air conditioners have always been some of the quietest models available in the market. Our new floorstanding models are no exception. It can create a silent and comfortable space where the occupants would not even recognize the existence of air



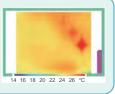
Optimum Air Distribution

Comfy room temperatures are realised by the optimum, powerful and efficient air distribution through upper and lower air outlets. The upper vane angle is remote controllable, with 5 air flow direction levels (+Swing and Auto modes) and 4 wind power levels (+Auto mode).

By setting the vane angle almost vertical, annoying direct wind can be avoided for your better comfort.



The air from both upper and lower air outlets is optimally controlled and distributed evenly to every corner of the room. In heating mode, the warm air is smartly controlled to stay at the floor level: Your feet do not feel chilled any more!





				PFFY-P20VKM-E2	PFFY-P25VKM-E2	PFFY-P32VKM-E2	PFFY-P40VKM-E2			
Power source				1-phase 220-240V 50Hz						
Caslina		*1	kW	2.2	2.8	3.6	4.5			
Cooling capaci		^{.y} *1	BTU/h	7,500	9,600	12,300	15,400			
Heating capac		*1	kW	2.5	3.2	4.0	5.0			
		^{ty} *1	BTU/h	8,500	10,900	13,600	17,100			
Power		Cooling	kW	0.025	0.025	0.025	0.028			
consum	nption	Heating	kW	0.025	0.025	0.025	0.028			
Current		Cooling	А	0.20	0.20	0.20	0.24			
Current		Heating	А	0.20	0.20	0.20	0.24			
Externa	al finish				Plastic (P	ure white)				
Dimens	sion		mm	600 x 700 x 200						
H x W >	кD		in.	23-5/8 x 27-9/16 x 7-7/8						
Net wei	ight		kg(lbs.)	15 (34)						
Heat ex	kchange	r		Cross fin (Alminium plate fin and copper tube)						
	Туре х	Quantity			Line flov	n x 2				
F	Airflow	rate I-Hi-SHi)	m³/min	5.9-6.8-7.6-8.7	6.1-7.0-8.0-9.1	6.1-7.0-8.0-9.1	8.0-9.0-9.5-10.7			
Fan	`	al static								
	pressur		Ра		()				
Motor	Туре				DC motor					
WOLUI	Output		kW		0.03	3 x 2				
Air filter	r				PP honeycomb fab	ric (Catechin Filter)				
Refrige	rant	Gas(Flare)	mm(in.)		ø12.7	(ø1/2)				
pipe dia	ameter	Liquid(Flare)	mm(in.)		ø6.35	(ø1/4)				
Field dr	rain pipe	diamete	r		I.D.16	6 (5/8)				
Sound pressur (Lo-Mid-Hi-SHi			dB(A)	27-31-34-37	28-32-35-38	28-32-35-38	35-38-42-44			

Notes:

*1 Cooling/heating capacity indicates the maximum value at operation under the following condition. Cooling Indoor : 27°C(81°F)DB/19°C(66°F)WB, Outdoor : 35°C(95°F)DB Heating Indoor : 20°C(68°F)DB, Outdoor : 7°C(45°F)DB/6°C(43°F)WB

*2 Airflow rate/Sound pressure level are in (low-middle-high-shigh).

*3 It is measured in anechoic room.

INDOOR UNIT Floor standing exposed

PFFY-P VLEM-E



Floor mounted lowboy type effective in perimeter zone.



Supports various types of spaces from office buildings and shop buildings to hospitals. Water vapor permeable film humidifier can be installed. Remote controller can be installed onto the main unit.

Compact unit for easy air conditioning in perimeter zone.

The compact body of 220mm(8-11/16in.) in depth can be easily installed for effective air conditioning in the perimeter zone.

Electronics dry function dehumidify refreshingly.

Optimum dehumidification depending on indoor temperature to prevent over-cooling. Refreshing dehumidification can be attained.



				PFFY-P20VLEM-E	PFFY-P25VLEM-E	PFFY-P32VLEM-E	PFFY-P40VLEM-E	PFFY-P50VLEM-E	PFFY-P63VLEM-E		
Power	source				1-phase 220-240V 50Hz / 1-phase 208-230V 60Hz						
0		*1	kW	2.2	2.8	3.6	4.5	5.6	7.1		
Cooling	g capacit	y *1	BTU/h	7,500	9,600	12,300	15,400	19,100	24,200		
	.,	*1	kW	2.5	3.2	4.0	5.0	6.3	8.0		
Heating capacit		^y *1	BTU/h	8,500	10,900	13,600	17,100	21,500	27,300		
Power		Cooling	kW	0.04	/ 0.06	0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11		
consu	mption	Heating	kW	0.04	/ 0.06	0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11		
Curren		Cooling	A	0.19	/ 0.25	0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47		
Curren	L	Heating	A	0.19	/ 0.25	0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47		
Externa	al finish(N	Munsell N	lo.)			Acrylic pai	nt (5Y 8/1)				
Dimon	sion H x	WvD	mm	630 x 1,0)50 x 220	630 x 1,1	70 x 220	630 x 1,4	410 x 220		
Dimen	SION H X	VV X D	in.	24-13/16 x 41-3/8 x 8-11/16		24-13/16 x 46	24-13/16 x 46-1/8 x 8-11/16 24-13/16 x 5				
Net we	eight		kg(lbs.)	23 (51)		25 (56)	26 (58)	30 (67)	32 (71)		
Heat e	xchangei	r			Cross fin (Aluminum plate fin and copper tube)						
	Type x	Quantity		Sirocco fan x 1 Sirocco fan x 2							
	Ainflow		m³/min	5.5	-6.5	7.0-9.0	9.0-11.0	12.0-14.0	12.0-15.5		
Fan	AIMOW	rate *2	L/s	92-	108	117-150	150-183	200-233	200-258		
	(Lo-Hi)		cfm	194	-230	247-318	318-388	424-494	424-547		
	External sta	atic pressure	Pa	0							
Motor	Туре			1-phase induction motor							
WOLOI	Output		kW	0.0)15	0.018	0.030	0.035	0.050		
Air filte	r					PP Honeycomb f	abric (washable)				
Refrige	erant	Gas (Flare)	mm(in.)			ø12.7 (ø1/2)			ø15.88 (ø5/8)		
pipe di	ameter	Liquid (Flare)	mm(in.)	ø6.35 (ø1/4)					ø9.52 (ø3/8)		
Field dr	rain pipe (diameter	mm(in.)		I.D.26 (1) ·	<accessory hose="" o.d.2<="" td=""><td>27 (1-3/32) (top end :20</td><td>(13/16))></td><td></td></accessory>	27 (1-3/32) (top end :20	(13/16))>			
Sound (Lo-Hi)	pressure *2	e level *3 *4	dB(A)	34	-40	35-40	38-	-43	40-46		

Notes:

*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling Indoor : 27°C(81°F)DB/19°C(66°F)WB,Outdoor 35°C(95°F)DB Heating Indoor : 20°C(68°F)DB, Outdoor 7°C(45°F)DB/6°C(43°F)WB

*2 Air flow rate/Sound pressure level are in (Low-High)

- *3 Measured point : 1m x 1m, Power supply : AC240V/50Hz · 1dB(A) lower at AC230V/50Hz · 2dB(A) lower at AC220V/50Hz · 3dB(A) lower at 1.5m x 1.5m point
- *4 It is measured in anechoic room.

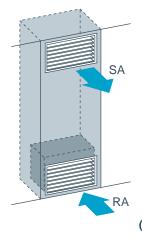
INDOOR UNIT Floor mounted concealed type

PFFY-P VLRM-E PFFY-P VLRMM-E



Neatly installed with pericover concealed. Easy installation in perimeter zone.





installation image (PFFY-P VLRMM-E)

Compact unit for easy air conditioning in perimeter zone.

The body is concealed in the pericover to create harmony with the interior. The compact body of 220mm(8-11/16in.) in depth can be easily installed in the perimeter zone.

Electronics dry function dehumidify refreshingly to prevent over-cooling.

Optimum dehumidification depending on indoor temperature to prevent over-cooling. Refreshing dehumidification can be attained.

Maximum external static pressure 60Pa (VLRMM model)

The additional external static pressure capacity provides flexibility for duct extension, branching, and air outlet configuration.



-											
				PFFY-P20VLRM-E	PFFY-P25VLRM-E	PFFY-P32VLRM-E	PFFY-P40VLRM-E	PFFY-P50VLRM-E	PFFY-P63VLRM-E		
Power	source	,			1-phase 220-240V 50Hz / 1-phase 208-230V 60Hz						
Cooling	g capacit	*1	kW	2.2	2.8	3.6	4.5	5.6	7.1		
COOMING	y capaci		BTU/h	7,500	9,600	12,300	15,400	19,100	24,200		
Hosting	a capacit	, *1	kW	2.5	3.2	4.0	5.0	6.3	8.0		
Tieating	y capacit	^y *1	BTU/h	8,500	10,900	13,600	17,100	21,500	27,300		
Power		Cooling	kW	0.04	/ 0.06	0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11		
consur	mption	Heating	kW	0.04	/ 0.06	0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11		
0		Cooling	А	0.19	/ 0.25	0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47		
Current	τ	Heating	А	0.19	/ 0.25	0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47		
Externa	al finish(I	Munsell N	lo.)			Galvanized	steel plate				
D .			mm	639 x 8	36 x 220	639 x 1,0	06 x 220	639 x 1,2	246 x 220		
Dimens	sion H x	WXD	in.	25-3/16 x 34-15/16 x 8-11/16		25-3/16 x 39-	25-3/16 x 39-5/8 x 8-11/16 25-		25-3/16 x 49-1/16 x 8-11/16		
Net we	ight		kg(lbs.)	18.5 (41)		20 (45)	21 (47)	25 (56)	27 (60)		
Heat ex	xchange	r			Cross fin (Aluminum plate fin and copper tube)						
	Туре х	Quautity		Sirocco	fan x 1	Sirocco fan x 2					
	Airflow	*2	m³/min	5.5-6.5		7.0-9.0	9.0-11.0	12.0-14.0	12.0-15.5		
Fan		rate	L/s	92-108		117-150	150-183	200-233	200-258		
	(Lo-Hi)		cfm	194-230		247-318	318-388	424-494	424-547		
	External sta	atic pressure	Pa			0					
	Туре					1-phase ind	uction motor				
Motor	Output		kW	0.0)15	0.018	0.030	0.035	0.050		
Air filte	r					PP Honeycomb f	abric (washable)				
Refrige	erant	Gas (Flare)	mm(in.)			ø12.7 (ø1/2)			ø15.88 (ø5/8)		
pipe dia	ameter	Liquid (Flare)	mm(in.)		ø6.35 (ø1/4)						
Field dr	ain pipe	diameter	mm(in.)		I.D.26 (1)	<accessory hose="" o.d.2<="" td=""><td>27 (1-3/32) (top end :20</td><td>) (13/16))></td><td></td></accessory>	27 (1-3/32) (top end :20) (13/16))>			
Sound (Lo-Hi)	pressure	e level *2 *3 *4	dB(A)	34	-40	35-40	38-43		40-46		

Notes:

*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling Indoor : 27°C(81°F)DB/19°C(66°F)WB, Outdoor 35°C(95°F)DB Heating Indoor : 20°C(68°F)DB, Outdoor 7°C(43°F)DB/6°C(43°F)WB

*2 Air flow rate/Sound pressure level are in (Low-High)

*3 Measured point : 1m x 1m, Power supply : AC240V/50Hz · 1dB(A) lower at AC230V/50Hz · 2dB(A) lower at AC220V/50Hz · 3dB(A) lower at 1.5m x 1.5m point

*4 It is measured in anechoic room.

				PFFY-P20VLRMM-E	PFFY-P25VLRMM-E	PFFY-P32VLRMM-E	PFFY-P40VLRMM-E	PFFY-P50VLRMM-E	PFFY-P63VLRMM-E			
Power source				1-phase 220-240V 50Hz / 1-phase 220-240V 60Hz								
		*1	kW	2.2	2.8	3.6	4.5	5.6	7.1			
Cooliné	Cooling capacity *1		BTU/h	7,500 9,600		12,300	15,400	19,100	24,200			
*1			kW	2.5	3.2	4.0	5.0	6.3	8.0			
пеаци	Heating capacity		BTU/h	8,500	10,900	13,600	17,100	21,500	27,300			
Power		Cooling	kW	0.	04	0.04	0.05	0.05	0.07			
consu	mption	Heating	kW	0.	04	0.04	0.05	0.05	0.07			
Curren		Cooling	А	0.	34	0.38	0.43	0.48	0.59			
Curren	ι	Heating	А	0.	34	0.38	0.43	0.48	0.59			
Externa	al finish(N	Munsell N	lo.)									
Dimon	sion H x	WVVD	mm	639 x 886 x 220		639 x 1,0	06 x 220	639 x 1,246 x 220				
Dimens		VV X D	in.	25-3/16 x 34-1	5/16 x 8-11/16	25-3/16 x 39-	5/8 x 8-11/16	25-3/16 x 49-1/16 x 8-11/16				
Net we	ight		kg(lbs.)	18.5	(41)	20 (45)	21 (47)	25 (56)	27 (60)			
Heat ex	kchanger			Cross fin (Aluminum plate fin and copper tube)								
	Туре х (Quautity		Sirocco	fan x 1		Sirocco fan x 2					
	Airflow	rato	m³/min	4.5-5	.5-6.5	6.5-7.5-9.0	8.0-9.5-11.0	10.0-12.0-14.0	11.0-13.0-15.5			
Fan	(Lo-Mid-F		L/s	75-9	75-92-108		133-158-183	167-200-233	183-217-258			
	· · · ·	'	cfm	159-1	94-230	230-265-318	282-335-388	353-424-494	388-459-547			
	External static	c pressure *2	Pa									
Motor			DC motor									
WOU	Output k		kW	0.096								
Air filte	Air filter			PP Honeycomb fabric (washable)								
Refrigerant Gas		Gas	mm(in.)			ø12.7 (ø1/	ø15.88 (ø5/8) Brazed					
pipe diameter Liqui		Liquid	mm(in.)			ø6.35 (ø1/4) Brazed ø9.52 (ø3/8) Braz						
Field drain pipe diameter		mm(in.)			<accessory (1-3="" (top="" 32)="" :20<="" end="" hose="" o.d.27="" td=""><td>(//</td><td></td></accessory>		(//					
Sound p	oressure	20Pa	dB(A)	31-36-40		27-32-37	30-36-40	32-37-41	35-40-44			
level (Lo	o-Mid-Hi)	40Pa	dB(A)	34-39-42		30-35-41	32-38-42	35-40-44	36-42-47			
	*3 60Pa		dB(A)	35-40-43		32-37-42	3.5-39-44	36-41-45	38-43-48			

Notes:

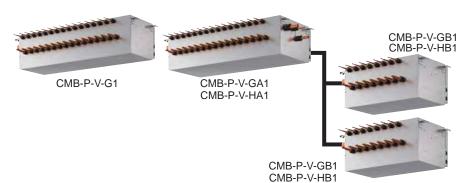
*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling Indoor : 27°C(81°F)DB/19°C(66°F)WB, Outdoor 35°C(95°F)DB Heating Indoor : 20°C(68°F)DB, Outdoor 7°C(45°F)DB/6°C(43°F)WB pipe length : 7.5m(24-9/16ft) Height difference : 0m(0ft)

*2 The external static pressure is set to 20Pa at factory shipment.

*3 The sound pressure level in operation is measured at 1m apart from the front side and the bottom side of the unit in anechoic room. (Noise meter A-scale value) Connect the duct of 1m in length to the air outlet.

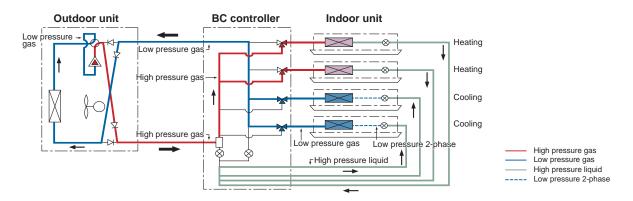
BC CONTROLLER

CMB-P-V-G1 CMB-P-V-GA1 CMB-P-V-HA1 CMB-P-V-GB1 CMB-P-V-HB1



BC CONTROLLER

In many ways, the BC Controller is the technological heart of the CITY MULTI R2/WR2. It works in unison with the outdoor unit to provide simultaneous cooling and heating, something no other two-pipe system can do. The BC Controller is connected to the outdoor unit by two pipes and to each indoor unit by a series of two refrigerant pipes, depending on the indoor unit count. The BC Controller is required for all CITY MULTI R2-Series installations. It comes in 4, 5, 6, 8, 10, 13, and 16-branch options. The BC Controller you select depends on how many indoor units will be operated from each outdoor unit and your total capacity requirements.



► Specifications

Model name					CMB-P104V-G1	CMB-P105V-G1	CMB-P106V-G1	CMB-P108V-G1	CMB-P1010V-G1	CMB-P1013V-G1	CMB-P1016V-G1			
Number of branch					4	5	6	8	10	13	16			
Power source				1-phase 220/230/240V 50Hz/60Hz										
			5011	Cooling	0.067/0.076/0.085	0.082/0.093/0.104	0.097/0.110/0.123	0.127/0.144/0.161	0.156/0.177/0.198	0.201/0.228/0.255	0.246/0.279/0.312			
Power input		kW	50Hz	heating	0.030/0.034/0.038	0.038/0.043/0.048	0.045/0.051/0.057	0.060/0.068/0.076	0.075/0.085/0.095	0.097/0.110/0.123	0.119/0.135/0.151			
			60Hz	Cooling	0.054/0.061/0.067	0.066/0.074/0.082	0.078/0.088/0.097	0.102/0.115/0.127	0.126/0.141/0.156	0.162/0.182/0.201	0.198/0.222/0.246			
				heating	0.024/0.027/0.030	0.030/0.034/0.038	0.036/0.041/0.045	0.048/0.054/0.060	0.060/0.068/0.075	0.078/0.088/0.097	0.096/0.108/0.119			
			50Hz	Cooling	0.31/0.34/0.36	0.38/0.41/0.44	0.45/0.48/0.52	0.58/0.63/0.68	0.71/0.77/0.83	0.92/1.00/1.07	1.12/1.22/1.30			
Current	• • •		50HZ	heating	0.14/0.15/0.16	0.18/0.19/0.20	0.21/0.23/0.24	0.28/0.30/0.32	0.35/0.37/0.40	0.45/0.48/0.52	0.55/0.59/0.63			
Current		A	60Hz	Cooling	0.25/0.27/0.28	0.30/0.33/0.35	0.36/0.39/0.41	0.47/0.50/0.53	0.58/0.62/0.65	0.74/0.80/0.84	0.90/0.97/1.03			
			0082	heating	0.11/0.12/0.13	0.14/0.15/0.16	0.17/0.18/0.19	0.22/0.24/0.25	0.28/0.30/0.32	0.36/0.39/0.41	0.44/0.47/0.50			
External finis	h				Galvanized steel plate (Lower part drain pan painting N1.5)									
Indoor unit capacity				Model P80 or smaller										
connectable	to 1 branch				(•Use optional joint pipe combing 2 branches when the total unit capacity exceeds 81.)									
Connectable	Outdoor unit ★				Refer to the combination chart of BC controller R2/WR2 series									
Height mm			284											
Width		mm			648 1098									
Depth		mm			432									
					Connectable outdoor unit capacity P200 P250, P300 P350									
	To outdoor					P200		P250, P300						
Refrigerant	unit	High pres		e pipe	ø15.88	(ø5/8) Brazed	ø19.05 (ø3/4) Brazed			ø19.05 (ø3/4) Brazed				
piping		Low p	ressure	pipe	ø19.05 (ø3/4) Brazed ø22.2 (ø7/8) Brazed ø28.58 (ø1-1/8) Brazed									
diameter		Liquid pipe			Indoor unit Model 50 or smaller:ø6.35 brazed, Over 50:ø9.52 brazed									
	To indoor				(ø12.7 with optional joint pipe used.)									
	unit	Gas p	ine		Indoor unit Model 50 or smaller:ø12.7 brazed, Over 50:ø15.88 brazed									
	ouo p	.po		(ø19.05 with optional joint pipe used.)										
Drain pipe						O.D. 32mm								
Net weight kg				24	27	28	33	38	45	52				
Accessories					 Drain connection pipe (with flexible hose and insulation) 									
				•Reducer										

Indoor Unit

Number branch I I I I I I Poerr injust Figure 1000000000000000000000000000000000000	Model name					CMB-P108V-GA	1	CMB-P1010	V-GA1	CMB-F	1013V-GA1	CMB-F	P1016V-GA1	CMB-P1016V-HA1
Page # source Image # 20/220/24/V SpHzBuilz Image # 20/220/24/V SpHzBuilz Power riput Bork # Control 100 00000000 000000000000000000000000														
Parwer input With Borker (and power local) Gold power (and power local) 0.1270 1440.056 0.05 0.0270 2008 0.057 0.0270 2008 0.057 0.0170 1100 123 0.01100 Current Image 0.100 0.05													-	
Power input MW BRH (and p) (a				1	Cooling	0 127/0 144/0 1	61	0 156/0 177/				0112	0 246/0 2	279/0.312
Prover input FW	Power input			50Hz										
Refigurat Both Pressure pice pice pice pice pice pice pice pic			kW											
Current A Bit Composition 0.7102 770.83 0.927 001 07 1.121 227.30 Current A Bit Composition 0.450 400.23 0.550 300.32 0.580 320.04 0.0300.971.03 External finitiat Composition Composition 0.220 240.25 0.250 300.01 0.450 400.02 0.0300.971.03 Composition Composition Composition Composition 0.220 240.25 0.230 300.32 0.580 380.00 0.260 390.00 0.280 380.00 0.450 4400.24 0.400.971.03 0.0400.971.03 0.				60Hz	-									
Current A 00/12 reading control 0.560.590.63 control 0.560.590.63 control External Intein Inforo unit capacity connectable Quidoor unit 4 0.2012.420.23 0.280.320.03.22 0.380.370.40 0.460.470.50 0.440.470.50 Connectable Quidoor unit 4 Inforo unit capacity connectable Quidoor unit 4 0.440.470.50 0.440.470.50 0.440.470.50 Connectable Quidoor unit 4 Inforo unit capacity connectable Quidoor unit 4 Inforo unit capacity concerts 48.83 0.440.470.50 Page mm Refer to the combination chard GE Controller R2WR2 series Inforo unit capacity concerts 48.83 0.440.470.50 Vidith mm Connectable Quidoor unit 4 Refer to the combination chard GE Controller R2WR2 series Inforo Unit Controller R2WR2 series Vidith mm Connectable Quidoor unit 40.100 ft concerts 48.85 (or 1.010)														
Lutrief A B </td <td colspan="2"></td> <td></td> <td>50Hz</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				50Hz	-									
Image in the stand in	Current		A	<u> </u>										
External finish Calibration Calibration <thcalibration< th=""></thcalibration<>				60Hz	-									
Indoor unit capacity connectable 01 branch Mode PQ0 or smaller Mode PQ0 or smaller Connectable Outdoor unit x Refer to the combination chart of BC controller R2WR2 series Refer to the combination chart of BC controller R2WR2 series Width mm 110 Refer to the combination chart of BC controller R2WR2 series Width mm 2800 P250, 300 P350 P430-P500 P550-P500 P270-P800/P850-P800 P250, 503 (34) Brazed e22.2 (a78) Brazed e22.8 (a1-16) Brazed e23.8 (a1-16) Brazed e23.8 (a1-16) Brazed e35.8 (a1-16) Brazed					neating	0.22/0.24/0.25								
								Galvaniz	ed steel p	· ·		n painti	ing N1.5)	
Connectable Outdoor unit * Refer to the combination that of EC controller R2VM22 tarking With mm 289 With mm 280 With mm 280 Upph mm 520 To outdoor unit High pressure pipe e15.56 (a58) Bazed o 19.0 P4000 P50.0 <														
Height mm 289 Depth mm 500 Depth mm 500 To outdoor unit High pressure pipe eff6668 P200 P201 P201 P200 P201 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>(•L</td> <td>Jse op</td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>eds 81.)</td>						(•L	Jse op			-				eds 81.)
Wide Depth mm 1.10 Depth mm 500 To outdoor unit mm 500 High pressure pipe unit dis8.8 (618) Based 10.05 (634) Brazed e22.2 (a78) Brazed e22.2 (a78) Brazed (c12.7 with optical joint pipe used (c12.7 with optical joint pipe used (c12.7 with optical joint pipe used (c12.6 with fiexbel used (c12.6 with fiexbel con call joint pipe used (c12.6 with fiexbel con to loint pipe used (c12.6 with fiexbel con call joint pipe used		Outdoor unit ★						Refer to t	the combi	ination ch		ller R2/	WR2 series	
Depth mm 520 Particle P200 P200 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>														
Refrigerant pring diameter To outdoor unit High pressure pipe dis (6 (6)4) Brazed Connectable outdoor unit capacity P200 P200-P200 P201-P200 P201-P200 <t< td=""><td>Width</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Width													
$ \begin{tabular}{ $	Depth			mm							520			
Refrigerant ping diameter unit High pressure pipe (unit)														
$ \begin{array}{c c c c c c c } & \label{eq:head} & $						P200	F	P250,300	P3	50	P400~P500	1	P550~P650	P700~P800/P850~P900*4
Refrigerant piping diameter Low pressure pipe e10.5 (s3.4) Brazed e22.67/8) Brazed e22.67/8) Brazed e23.58 (e1-1/8) Brazed e34.38 (e1-36) Brazed e11.86 (e1-36) Brazed To indoor init To indoor init Liquid pipe Indoor unit Model D0 or smaller.a6.36 brazed, Over 50.e9.52 brazed (e12.7 wht optional joint pipe used.) e34.38 (e1-36) Brazed e34.38 (e1-36) Brazed To another DC controller To another DC Low press gas pipe e10.56 (s3.4) Brazed e10.05 (c3.4) Brazed e22.2 (c7.8) Braz			High (pressure	e pipe	ø15.88 (ø5/8) Brazed		ø19.05 (ø3/	.05 (ø3/4) Brazed ø22.2 (ø7/8) Braz		ø22.2 (ø7/8) Braze	ed ø28.	.58 (ø1-1/8) Brazed	ø28.58 (ø1-1/8) Brazed ø28.58 (ø1-1/8) Brazed
$ \begin{array}{ c $			Low pressure pipe			ø19.05 (ø3/4) Brazed	ø22.2	2 (ø7/8) Brazed	x 29, 59, (x1, 1/9) Drozad Ø34.93 (Ø1-3/8) I					ø34.93 (ø1-3/8) Brazed ø41.28 (ø1-5/8) Brazed
piping diameter unit Gas pipe Indoor unit Model 50 or smaller;912.7 hrazed, Over 50:e15.88 brazed (619.05 with optical joint pipe used.) To another 8C controller Controller To another 8C to more sage pipe -P200 P201-P300 P301-P300 P301-P400 P401-P450 To another 8C controller High press gas pipe e15.88 (658) Brazed e22.2 (a7.8) Brazed e22.5.8 (e1-10) Brazed e22.5.8 (e1-10) Brazed e32.5.8 (e1-10) Brazed Drain pipe 0.0 52 (m34) Brazed e22.5.8 (e1-10) Brazed e12.7 (e12) Brazed e22.5.8 (e1-10) Brazed e12.7 (e12) Brazed Number of branch Kg 43 48 55 62 69 Number of branch 4 8 16 61 61 61 Power input kW Soft Cooling 0.060/0.068/0.076 0.119/0.136/0.151 0.237/0.289/0.301 Current kW Soft Cooling 0.064/0.027/0.030 0.048/0.054/0.060 0.096/0.108/0.120 Current k Cooling 0.024/0.270 0.220/24/0.25 0.44/0.47/0.50 0.280/0.30/0.2 External finish	Refrigerant	To indoor	Liquid	l pipe		Indoor unit Model 50 or smaller:ø6.35 brazed, Over 50:ø9.52 brazed								
diameter Gas pipe	piping													
Image: Solution of the	diameter	unin	Gas p	as pipe				Indoor unit ivio					015.88 brazed	
To another BC controller High press gas pipe ar18.05 (s3) Brazed P201-P300 P201-P300 P351-P400 P401-P450 Deptrover bit bit (s1,4) Brazed ar18.05 (s3/4) Brazed ar22.2 (a7/8) Brazed ar22.2 (a7/8) Brazed ar22.3 (a7/8) Brazed ar28.56 (a1-1/8) Br				-										
Ice another BC controller Controller BC controller BC Controller BC (avp ress gas pipe Low press gas pipe Drain pipe Brain pipe Bra														
Controller Low press gas pipe ol 10.05 (e3/4) Brazed a22.2 (o7/8) Brazed ol 28.58 (o1-1/8) Brazed ol 25.80 (o1-1/8) Brazed ol 15.88 (e5/8) Brazed Drain pipe		To another BC							P3					
Indication Indication <thindication< th=""> Indication Indicat</thindication<>		controller				· · · ·								
Drain pipe O.D. 32mm Down (sol) Partie Prove (sol) Partie Prove(sol) Partie Prove (sol) Partie					is pipe			Brazed						
Net weight kg 43 48 55 62 69 Accessories -Drain connection pipe (with flexible hose and insulation) -Reducer Model name CMB-P104V-GB1 CMB-P104V-GB1 CMB-P104V-GB1 CMB-P104V-GB1 Number of branch 4 8 16 Power source 1-phase 220/230/240V 50/1/50/151 0.237/0.269/0.301 Power input KW 60Hz Cooling 0.060/0.068/0.076 0.119/0.136/0.151 0.237/0.269/0.301 Power input KW 60Hz Cooling 0.024/0.027/0.030 0.048/0.068/0.076 0.119/0.136/0.151 0.237/0.269/0.301 Current KW 60Hz Cooling 0.024/0.027/0.030 0.048/0.047/0.50 0.088/0.94/0.090 0.096/0.108/0.120 Current Goldrad Gooling 0.22/0.24/0.25 0.44/0.47/0.50 0.688/0.94/0.99 0.22/0.24/0.25 0.44/0.47/0.50 0.88/0.94/0.99 External finich Goldrad is a carbiy Goldrad is a carbiy Goldrad is a carbiy Goldrad is a carbiy 0.44/0.47/0.50 0.44/0.47/0.50 Connectable Ou			Liquid pipe			ø9.52 (ø3/8) Brazed) Braze	d	ø15.88 (ø5/8) Brazed
Accessories														
Model name CMB-P104V-GB1 CMB-P108V-GB1 CMB-P1016V-HB1 Number of branch 4 8 16 Power source 1-phase 220/230/240V 50Hz/60Hz 0.237/0.269/0.301 Power input kW 60Hz Cooling 0.0600.068/0.076 0.119/0.135/0.151 0.237/0.269/0.301 Current kW 60Hz Cooling 0.048/0.054/0.060 0.096/0.108/0.119 0.192/0.216/0.237 Current A 50Hz Cooling 0.024/0.027/0.030 0.048/0.054/0.060 0.096/0.108/0.119 0.192/0.216/0.237 Current A 50Hz Cooling 0.024/0.027/0.030 0.044/0.07/0.50 0.88/0.94/0.99 0.220/0.40.25 0.44/0.47/0.50 0.88/0.94/0.99 0.14/0.15/0.16 0.220/0.420.25 0.44/0.47/0.50 0.88/0.94/0.99 0.14/0.47/0.50 0.88/0.94/0.99 0.14/0.47/0.50 0.88/0.94/0.99 0.220/0.420.25 0.44/0.47/0.50 0.88/0.94/0.99 0.220/0.420.25 0.44/0.47/0.50 0.88/0.94/0.99 0.220/0.421.25 0.44/0.47/0.50 0.88/0.94/0.99 0.220/0.421.25 0.44/0.47/0.50 0.220/0.421.25 0.44/0.47/0.50			kg			43		-					-	69
Number of branch 4 8 16 Power source 1-phase 220/230/240V 50Hz/60Hz 237/0.269/0.301 Power input kW 50Hz Cooling 0.060/0.068/0.076 0.0119/0.135/0.151 0.237/0.269/0.301 Power input kW 60Hz Cooling 0.048/0.054/0.060 0.096/0.068/0.076 0.119/0.135/0.151 Current 60Hz Cooling 0.048/0.054/0.060 0.096/0.080/0.108/0.120 0.049/0.054/0.060 0.096/0.096/0.096/0.096/0.096/0.096/0.096/0.096/0.096/0.096/0.096/0.096/0.096/0.080/0.120 Current A 60Hz Cooling 0.024/0.252 0.44/0.47/0.50 0.88/0.94/0.99 Indoor unit capacity connectable 0 0.60Hz 0.024/0.25 0.44/0.47/0.50 0.88/0.94/0.99 Indoor unit capacity connectable 0 I branch (*Use optional joint pipe combing 2 branches when the total unit capacity exceeds 81.) Model P80 or smaller Connectable Outdoor unit * mm 284 1.098 Depth mm 648 1.098 Controller Mark 648 .098 Connectable Outdoor unit * <	Accessories							 Drain conne 	ction pipe	e (with fle	kible hose and in	nsulatio	n) •Reducer	
Number of branch 4 8 16 Power source 1-phase 220/230/240V 50Hz/60Hz 237/0.269/0.301 Power input kW 50Hz Cooling 0.060/0.068/0.076 0.0119/0.135/0.151 0.237/0.269/0.301 Power input kW 60Hz Cooling 0.048/0.054/0.060 0.096/0.068/0.076 0.119/0.135/0.151 Current 60Hz Cooling 0.048/0.054/0.060 0.096/0.080/0.108/0.120 0.049/0.054/0.060 0.096/0.096/0.096/0.096/0.096/0.096/0.096/0.096/0.096/0.096/0.096/0.096/0.096/0.080/0.120 Current A 60Hz Cooling 0.024/0.252 0.44/0.47/0.50 0.88/0.94/0.99 Indoor unit capacity connectable 0 0.60Hz 0.024/0.25 0.44/0.47/0.50 0.88/0.94/0.99 Indoor unit capacity connectable 0 I branch (*Use optional joint pipe combing 2 branches when the total unit capacity exceeds 81.) Model P80 or smaller Connectable Outdoor unit * mm 284 1.098 Depth mm 648 1.098 Controller Mark 648 .098 Connectable Outdoor unit * <	-													
Power source 1-phase 220/230/240V 50Hz/60Hz Power input kW 50Hz Cooling 0.060/0.068/0.076 0.119/0.135/0.151 0.237/0.269/0.301 Power input kW 50Hz Cooling 0.048/0.076 0.119/0.135/0.151 0.237/0.269/0.301 Current A 50Hz Cooling 0.024/0.027/0.030 0.048/0.054/0.060 0.096/0.108/0.119 0.192/0.216/0.237 Current A 50Hz Cooling 0.024/0.027/0.030 0.048/0.054/0.060 0.096/0.108/0.119 0.192/0.216/0.237 Current A 50Hz Cooling 0.22/0.24/0.25 0.44/0.47/0.50 0.88/0.94/0.99 External finish Goling 0.22/0.24/0.25 0.44/0.47/0.50 0.88/0.94/0.99 Indoor unit capacity Connectable to 1 branch Goling 0.22/0.24/0.25 0.44/0.47/0.50 Connectable Outdoor unit * mm Cele optional joint pipe combing 2 branches when the total unit capacity exceeds 81.) Model P80 or smaller Connectable Outdoor unit * mm 284 284 284 Width mm 432						CMB-P1	104V-	GB1		CMB-F	2108V-GB1		CMB-	-P1016V-HB1
Power input KW Solid Feating Cooling 0.030/0.34/0.038 0.060/0.068/0.076 0.119/0.135/0.151 0.237/0.269/0.301 Current 60Hz Cooling 0.030/0.34/0.038 0.060/0.068/0.076 0.019/0.032/0.237 Current A 50Hz Cooling 0.024/0.027/0.030 0.048/0.054/0.060 0.096/0.108/0.119 0.19/0.216/0.237 Current A 50Hz Cooling 0.220/0.21/0.25 0.44/0.47/0.50 0.88/0.94/0.99 Indoor unit capacity 60Hz Cooling 0.220.24/0.25 0.44/0.47/0.50 0.88/0.94/0.99 Indoor unit capacity 0.011/0.12/0.13 0.220.24/0.25 0.44/0.47/0.50 0.88/0.94/0.99 Connectable Outdoor unit * Galvanized steel plate (Lower part drain pan painting N1.5) Model P80 or smaller Connectable Outdoor unit * mm 284 284 432 Width mm 648 1,098 432 432 Depth mm 432 432 432 432 432 To Main BC mm 648 1,098 9301-P3	Model name							GB1		CMB-F			CMB-	
Power input KW 50Hz heating 0.030/0.034/0.038 0.060/0.068/0.076 0.119/0.135/0.151 Current KW 60Hz heating 0.024/0.027/0.030 0.048/0.054/0.060 0.096/0.108/0.120 Current A 50Hz heating 0.024/0.027/0.030 0.048/0.054/0.060 0.096/0.108/0.120 Current A 50Hz heating 0.024/0.027/0.032 0.55/0.59/0.63 1.08/1.17/1.26 Current 50Hz heating 0.14/0.15/0.16 0.28/0.30/0.32 0.55/0.59/0.63 1.08/1.17/1.26 Current 50Hz heating 0.14/0.15/0.16 0.22/0.24/0.25 0.44/0.47/0.50 0.88/0.94/0.99 External finish Cooling 0.22/0.24/0.25 0.44/0.47/0.50 0.88/0.94/0.99 Indoor unit capacity Cooling in 0.12/0.13 0.22/0.24/0.25 0.44/0.47/0.50 Connectable Outdoor unit ★ Refer to the combination chart of BC controller R2WR2 series 1004/0.98/0.94/0.99 Height mm 284 1,098 Depth mm 284 284 Vidth mm 432 432 C	Model name Number of br	ranch						GB1	1-pha		8	0Hz	CMB-	
Power input kW 60Hz Cooling 0.048/0.054/0.060 0.096/0.108/0.119 0.192/0.216/0.237 Current A 60Hz Cooling 0.024/0.027/0.030 0.048/0.054/0.060 0.096/0.108/0.120 Current A 50Hz Cooling 0.28/0.30/0.32 0.55/0.59/0.63 1.08/1.17/1.26 Current 60Hz Cooling 0.22/0.24/0.25 0.44/0.47/0.50 0.880.94/0.99 External finish Cooling 0.22/0.24/0.25 0.44/0.47/0.50 0.880.94/0.99 Indoor unit capacity Cooling 0.11/0.12/0.13 0.22/0.24/0.25 0.44/0.47/0.50 Connectable to 1 branch Galvanized steel plate (Lowe part drain pan painting N1.5) Model P80 or smaller (Use optional joint pipe combing 2 branches when the total unit capacity exceeds 81.) Connectable Outdor unit * mm 284 1,098 284 Width mm 284 1,098 284 432 432 Depth mm 432 432 432 432 432 432 Indoor unit capacity connected this Sub BC controller	Model name Number of br	ranch			Cooling		4		1-pha	se 220/23	8 0/240V 50Hz/60	0Hz		16
Current 60H2 heating 0.024/0.027/0.030 0.048/0.054/0.060 0.096/0.108/0.120 Current A 50H2 Cooling 0.28/0.30/0.32 0.55/0.59/0.63 1.08/1.171.26 Current 60H2 60H2 Cooling 0.22/0.24/0.25 0.44/0.47/0.50 0.88/0.94/0.99 External finish 60H2 Cooling 0.21/0.24/0.25 0.44/0.47/0.50 0.88/0.94/0.99 Indoor unit capacity connectable to 1 branch Colone contable to 1 branch C4Use optional joint pipe combing 2 branches when the total unit capacity exceeds 81.) Connectable to 1 branch C4Use optional joint pipe combing 2 branches when the total unit capacity exceeds 81.) Connectable Outdoor unit * mm C48 1.098 284 Width mm C48 1.098 284 Width mm Controller 432 432 To Main BC controller 910.05 (ø3/4) Brazed 9201-P350 P351-P400 P401-P450 controller High pressure pipe ø15.88 (ø5/8) Brazed ø19.05 (ø3/4) Brazed ø22.2 (ø7/8) Brazed ø22.2 (ø7/8) Brazed	Model name Number of br	ranch		50Hz		0.060/0.	4 068/0	0.076	1-pha	se 220/23 0.119/0	8 0/240V 50Hz/60 0.135/0.151	0Hz	0.237	16 7/0.269/0.301
CurrentA	Model name Number of br Power source	ranch	kW		heating	0.060/0. 0.030/0.	4 068/0 034/0	0.076	1-phas	se 220/23 0.119/0 0.060/0	8 0/240V 50Hz/60 0.135/0.151 0.068/0.076	0Hz	0.237	16 7/0.269/0.301 9/0.135/0.151
$ \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Model name Number of br Power source	ranch	kW		heating Cooling	0.060/0. 0.030/0. 0.048/0.	4 068/0 034/0 054/0	0.076 0.038 0.060	1-pha	se 220/23 0.119/0 0.060/0 0.096/0	8 0/240V 50Hz/60 0.135/0.151 0.068/0.076 0.108/0.119	0Hz	0.237 0.119 0.192	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237
Current A A Cooling 0.22/0.24/0.25 0.44/0.47/0.50 0.88/0.94/0.99 External finish 60Hz Cooling 0.22/0.24/0.25 0.44/0.47/0.50 0.88/0.94/0.99 Indoor unit capacity Galvanized steel plate (Lower part drain pan painting N1.5) Model P80 or smaller 0.44/0.47/0.50 Connectable to 1 branch (*Use optional joint pipe combing 2 branches when the total unit capacity exceeds 81.) Connectable 0utdor unit * Refer to the combination chart of BC controller R2/WR2 series Height mm 284 284 Width mm 648 1,098 Depth mm 648 1,098 Controller mm 432 432 Total indoor unit capacity connected this Sub BC controller -P200, P201-P350 -P200, P201-P450 0.010 P301-P350 P351-P400 P401-P450 922.2 (gr/8) Brazed of indoor unit dig pipe ø19.05 (ø3/4) Brazed ø22.2 (gr/8) Brazed ø22.2 (gr/8) Brazed indoor unit o28.58 (ø1-1/8) Brazed ø22.2 (gr/8) Brazed ø28.58 (ø1-1/8) Brazed of Main BC Indoor unit Model 5	Model name Number of br Power source	ranch	kW		heating Cooling heating	0.060/0. 0.030/0. 0.048/0. 0.024/0.	4 068/0 034/0 054/0 027/0	0.076 0.038 0.060 0.030	1-pha:	se 220/23 0.119/0 0.060/0 0.096/0 0.048/0	8 30/240V 50Hz/60 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060	0Hz	0.237 0.119 0.192 0.096	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 5/0.108/0.120
60Hz heating 0.11/0.12/0.13 0.22/0.24/0.25 0.44/0.47/0.50 External finish Galvanized steel plate (Lower part drain pan painting N1.5) Model P80 or smaller connectable to 1 branch (-Use optional joint pipe combing 2 branches when the total unit capacity exceeds 81.) Connectable Outdoor unit * Refer to the combination chart of BC controller R2/WR2 series Height mm 284 284 Width mm 648 1,098 Depth mm 432 432 To Main BC -P200 P201-P300 P301-P350 -P200, P201-P450 controller High pressure pipe ø15.88 (ø5/8) Brazed ø12.7 (ø1/2) Brazed ø22.2 (ø7/8) Brazed for indoor unit fuquid pipe ø19.05 (ø3/8) Brazed ø12.7 (ø1/2) Brazed ø15.88 (ø5/8) Brazed for indoor unit Gas pipe Indoor unit Model 50 or smaller:ø6.35 brazed, Over 50:ø15.88 brazed ø19.05 with optional joint pipe used.) Drain pipe tiquid pipe Indoor unit Model 50 or smaller:ø1.27 brazed, Over 50:ø15.88 brazed ø19.05 with optional joint pipe used.) Drain pipe tiquid pipe Indoor unit Model 50 or smaller:ø	Model name Number of br Power source	ranch	kW	60Hz	heating Cooling heating Cooling	0.060/0. 0.030/0. 0.048/0. 0.024/0. 0.28/0	4 068/0 034/0 054/0 027/0 .30/0.	0.076 0.038 0.060 0.030 32	1-pha	se 220/23 0.119/0 0.060/0 0.096/0 0.048/0 0.55/	8 30/240V 50Hz/60 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63	0Hz	0.237 0.119 0.192 0.096 1.0	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 5/0.108/0.120 8/1.17/1.26
External finish Galvanized steel plate (Lower part drain pan painting N1.5) Indoor unit capacity Model P80 or smaller connectable to 1 branch (*Use optional joint pipe combing 2 branches when the total unit capacity exceeds 81.) Connectable Outdoor unit ★ Refer to the combination chart of BC controller R2/WR2 series Height mm 284 284 Width mm 648 1,098 Depth mm 432 432 To Main BC P200 P201-P350 P200, P201-P450 controller -P200 P201-P300 P351-P400 P401-P450 -P200 P201-P300 P301-P350 P351-P400 P401-P450 -P200 P201-P300 P301-P350 P351-P400 P401-P450 -P200 P201-P300 P301-P350 P351-P400 P401-P450 controller High pressure pipe ø19.05 (ø3/4) Brazed ø12.7 (ø1/2) Brazed ø15.88 (ø5/8) Brazed diameter To indoor Liquid pipe ø9.52 (ø3/8) Brazed ø12.7 (ø1/2) Brazed ø15.88 (ø5/8) Brazed diameter To indoor Liquid pipe Indoor unit Model 50 or smaller:ø6.35 brazed, Ove	Model name Number of br Power source Power input	ranch		60Hz	heating Cooling heating Cooling heating	0.060/0. 0.030/0. 0.048/0. 0.024/0. 0.28/0 0.14/0	4 068/0 034/0 054/0 027/0 .30/0. .15/0.	0.076 0.038 0.060 0.030 .32 16	1-pha	se 220/23 0.119/0 0.060/0 0.096/0 0.048/0 0.55/ 0.28/0	8 00/240V 50Hz/60 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32	0Hz	0.237 0.119 0.192 0.096 1.0 0.5	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 5/0.18/0.120 8/1.17/1.26 5/0.59/0.63
Indoor unit capacity connectable to 1 branch Model P80 or smaller Connectable Outdoor unit ★ Refer to the combination chart of BC controller R2/WR2 series Height mm 284 284 Width mm 648 1,098 Depth mm 432 432 To Main BC controller -P200, P201-P350 -P200, P201-P450 Convertex #1gh pressure pipe ø15.88 (ø5/8) Brazed ø19.05 (ø3/4) Brazed ø22.2 (ø7/8) Brazed Vidtidiameter To indoor unit Liquid pipe ø19.05 (ø3/4) Brazed ø12.7 (ø1/2) Brazed ø15.88 (ø5/8) Brazed Drain pipe Cas pipe Indoor unit Model 50 or smaller:ø6.35 brazed, Over 50:ø15.88 brazed (ø19.05 with optional joint pipe used.) Indoor unit Model 50 or smaller:ø6.35 brazed, Over 50:ø15.88 brazed (ø19.05 with optional joint pipe used.) Drain pipe 22 32 55	Model name Number of br Power source Power input	ranch		60Hz 50Hz	heating Cooling heating Cooling heating Cooling	0.060/0. 0.030/0. 0.048/0. 0.024/0. 0.28/0 0.14/0 0.22/0	4 068/0 034/0 054/0 027/0 .30/0. .15/0. .24/0.	0.076 0.038 0.060 0.030 .32 .16 .25	1-phas	se 220/23 0.119/0 0.060/0 0.096/0 0.048/0 0.55/ 0.28/ 0.44/	8 00/240V 50Hz/60 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50	0Hz	0.237 0.119 0.192 0.096 1.0 0.5 0.8	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 5/0.108/0.120 8/1.17/1.26 5/0.59/0.63 8/0.94/0.99
(+Use optional joint pipe combing 2 branches when the total unit capacity exceeds 81.) Connectable Outdoor unit ★ Refer to the combination chart of BC controller R2/WR2 series Height 7 Height mm 284 1,098 Width mm 648 1,098 Depth mm 648 1,098 Total indoor unit capacity connected this Sub BC controller 432 432 To Main BC controller High pressure pipe ø15.88 (ø5/8) Brazed Ø19.05 (ø3/4) Brazed P301-P350 P200, P201-P450 Controller High pressure pipe ø15.88 (ø5/8) Brazed ø19.05 (ø3/4) Brazed ø22.2 (ø7/8) Brazed ø22.2 (ø7/8) Brazed ø22.2 (ø7/8) Brazed ø22.2 (ø7/8) Brazed ø15.88 (ø5/8) Brazed Maim teriping Unit Liquid pipe ø9.52 (ø3/8) Brazed ø12.7 with optional joint pipe used.) ø15.88 (ø5/8) Brazed ø12.7 with optional joint pipe used.) Drain pipe Liquid pipe ø9.52 (ø3/8) Brazed or smaller:ø1.27 with optional joint pipe used.) ø15.88 (ø5/8) Brazed Drain pipe Liquid pipe ø9.52 (ø3/8) Brazed or smaller:ø1.27 with optional joint pipe used.) ø15.88 (ø5/8) Brazed <t< td=""><td>Model name Number of br Power source Power input Current</td><td>ranch e</td><td></td><td>60Hz 50Hz</td><td>heating Cooling heating Cooling heating Cooling</td><td>0.060/0. 0.030/0. 0.048/0. 0.024/0. 0.28/0 0.14/0 0.22/0</td><td>4 068/0 034/0 054/0 027/0 .30/0. .15/0. .24/0.</td><td>0.076 0.038 0.060 0.030 .32 1.16 .25 1.3</td><td></td><td>se 220/23 0.119/0 0.060/0 0.096/0 0.048/0 0.55/0 0.28/0 0.44/0 0.22/0</td><td>8 00/240V 50Hz/60 0.13570.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25</td><td></td><td>0.237 0.119 0.192 0.096 1.0 0.5 0.8 0.8</td><td>16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 5/0.108/0.120 8/1.17/1.26 5/0.59/0.63 8/0.94/0.99</td></t<>	Model name Number of br Power source Power input Current	ranch e		60Hz 50Hz	heating Cooling heating Cooling heating Cooling	0.060/0. 0.030/0. 0.048/0. 0.024/0. 0.28/0 0.14/0 0.22/0	4 068/0 034/0 054/0 027/0 .30/0. .15/0. .24/0.	0.076 0.038 0.060 0.030 .32 1.16 .25 1.3		se 220/23 0.119/0 0.060/0 0.096/0 0.048/0 0.55/0 0.28/0 0.44/0 0.22/0	8 00/240V 50Hz/60 0.13570.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25		0.237 0.119 0.192 0.096 1.0 0.5 0.8 0.8	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 5/0.108/0.120 8/1.17/1.26 5/0.59/0.63 8/0.94/0.99
Connectable Outdoor unit Imm Refer to the combination chart of BC controller R2/WR2 series Height mm 284 284 Width mm 648 1,098 Depth mm 432 432 Total indoor unit capacity connected this Sub BC controller -P200, P201-P350 -P200, P201-P450 -P200 P201-P300 P301-P350 P401-P450 Controller High pressure pipe ø15.88 (ø5/8) Brazed 019.05 (ø3/4) Brazed 022.2 (ø7/8) Brazed Image: Part of the combination chart of BC controller High pressure pipe ø19.05 (ø3/4) Brazed 022.2 (ø7/8) Brazed 022.2 (ø7/8) Brazed Image: Part of the combination chart of BC controller High pressure pipe ø19.05 (ø3/4) Brazed 022.2 (ø7/8) Brazed 022.2 (ø7/8) Brazed Image: Part of the combination chart of BC controller High pressure pipe ø19.05 (ø3/4) Brazed 022.2 (ø7/8) Brazed 022.2 (ø7/8) Brazed Image: Part of the combination chart of BC controller Indoor unit Model 50 or smaller:ø6.35 brazed, Over 50:ø15.88 brazed 041P450 Image: Part of the combination chart of BC controller Indoor unit Model 50 or smaller:ø1.27 brazed, Over 50:ø15.88 brazed 041P450 Image: Part of the combination chart of BC controller Indoor unit Model 50 or smaller:ø1.27 brazed, Over 50:ø15.88 brazed 0.D. 32mm Drain	Model name Number of br Power source Power input Current External finisi	ranch e h		60Hz 50Hz	heating Cooling heating Cooling heating Cooling	0.060/0. 0.030/0. 0.048/0. 0.024/0. 0.28/0 0.14/0 0.22/0	4 068/0 034/0 054/0 027/0 .30/0. .15/0. .24/0.	0.076 0.038 0.060 0.030 .32 1.16 .25 1.3		se 220/23 0.119// 0.060// 0.096// 0.048// 0.55/ 0.28/ 0.28/ 0.44/ 0.22/ Dilate (Low	8 00/240V 50Hz/60 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 ver part drain par		0.237 0.119 0.192 0.096 1.0 0.5 0.8 0.8	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 5/0.108/0.120 8/1.17/1.26 5/0.59/0.63 8/0.94/0.99
Height mm 284 Width mm 648 1,098 Depth mm 432 432 Image: State of the st	Model name Number of br Power source Power input Current External finisi Indoor unit ca	e e h apacity		60Hz 50Hz	heating Cooling heating Cooling heating Cooling	0.060/0. 0.030/0. 0.048/0. 0.024/0. 0.28/0 0.14/0 0.22/0 0.11/0	4 068/0 034/0 054/0 027/0 .30/0. .15/0. .24/0. .12/0.	0.076 0.038 0.060 0.030 32 16 25 13 Galvaniz	ed steel p	se 220/23 0.119// 0.060// 0.096// 0.048// 0.55/ 0.28/ 0.44/ 0.22/ Dlate (Low Model P	8 00/240V 50Hz/60 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 rer part drain par 80 or smaller	n painti	0.237 0.119 0.096 1.0 0.5 0.8 0.4 ing N1.5)	16 7/0.269/0.301 3/0.135/0.151 2/0.216/0.237 5/0.108/0.120 8/1.17/1.26 5/0.59/0.63 8/0.94/0.99 4/0.47/0.50
	Model name Number of br Power source Power input Current External finisi Indoor unit ce connectable fi	e e h apacity to 1 branch		60Hz 50Hz	heating Cooling heating Cooling heating Cooling	0.060/0. 0.030/0. 0.048/0. 0.024/0. 0.28/0 0.14/0 0.22/0 0.11/0	4 068/0 034/0 054/0 027/0 .30/0. .15/0. .24/0. .12/0.	0.076 0.038 0.060 0.030 	ed steel p	se 220/23 0.119// 0.060// 0.096// 0.048// 0.28/ 0.28/ 0.22/ 0.44/ 0.22/ 0late (Lov Model P g 2 brance	8 00/240V 50Hz/60 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 //er part drain par 80 or smaller	n painti	0.237 0.119 0.192 0.096 1.0 0.5 0.8 0.4 ing N1.5) capacity excee	16 7/0.269/0.301 3/0.135/0.151 2/0.216/0.237 5/0.108/0.120 8/1.17/1.26 5/0.59/0.63 8/0.94/0.99 4/0.47/0.50
Depth mm 432 To Main BC To Main BC controller -P200, P201-P350 -P200, P201-P450 controller High pressure pipe ø15.88 (ø5/8) Brazed Ø21P350 -P200, P201-P450 controller High pressure pipe ø15.88 (ø5/8) Brazed Ø21P350 -P200, P201-P450 Controller High pressure pipe ø15.88 (ø5/8) Brazed ø22.2 (ø7/8) Brazed ø22.2 (ø7/8) Brazed ø22.2 (ø7/8) Brazed diameter Liquid pipe ø19.05 (ø3/4) Brazed ø22.2 (ø7/8) Brazed ø12.7 (ø1/2) Brazed ø15.88 (ø5/8) Brazed To indoor Liquid pipe ø19.05 (ø3/4) Brazed ø22.2 (ø7/8) Brazed ø12.7 (ø1/2) Brazed ø15.88 (ø5/8) Brazed Drain pipe Liquid pipe ø19.05 (ø3/4) Brazed ø12.7 (ø1/2) Brazed ø15.88 brazed Or.n appe Liquid pipe Liquid pipe Indoor unit Model 50 or smaller:ø6.35 brazed, Over 50:ø15.88 brazed Drain pipe Liquid pipe O.D. 32mm Net weight kg 22 32	Model name Number of br Power source Power input Current External finiss Indoor unit ca connectable to Connectable	e e h apacity to 1 branch		60Hz 50Hz 60Hz	heating Cooling heating Cooling heating Cooling	0.060/0. 0.030/0. 0.048/0. 0.024/0. 0.28/0 0.14/0 0.22/0 0.11/0	4 068/0 034/0 054/0 027/0 .30/0. .15/0. .24/0. .12/0.	0.076 0.038 0.060 0.030 	ed steel p	se 220/23 0.119// 0.060// 0.096// 0.048// 0.28/ 0.28/ 0.22/ 0.44/ 0.22/ 0late (Lov Model P g 2 brance	8 00/240V 50Hz/60 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 //er part drain par 80 or smaller	n painti	0.237 0.119 0.192 0.096 1.0 0.5 0.8 0.4 ing N1.5) capacity excee	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 5/0.108/0.120 8/1.17/1.26 5/0.59/0.63 8/0.94/0.99 4/0.47/0.50
Total indoor unit capacity connected this Sub BC controller Total indoor unit capacity connected this Sub BC controller To Main BC controller To Main BC controller High pressure pipe ø15.88 (ø5/8) Brazed Ø19.05 (ø3/4) Brazed Ø19.05 (ø3/4) Brazed P201-P350 P-P200, P201-P450 Controller High pressure pipe ø19.05 (ø3/4) Brazed Ø19.05 (ø3/4) Brazed Ø22.2 (ø7/8) Brazed Ø22.2 (ø7/8) Brazed diameter Liquid pipe Ø9.52 (ø3/8) Brazed Ø12.7 (ø1/2) Brazed Ø15.88 (ø5/8) Brazed To indoor unit Liquid pipe Ø15.82 (ø3/8) Brazed Ø12.7 (ø1/2) Brazed Ø15.88 (ø5/8) Brazed To indoor unit Liquid pipe Indoor unit Model 50 or smaller:ø6.35 brazed, Over 50:ø15.88 brazed Ø12.7 (ø1/2) Brazed Ø15.88 (ø5/8) Brazed Drain pipe Liquid pipe Indoor unit Model 50 or smaller:ø12.7 brazed, Over 50:ø15.88 brazed (ø19.05 with optional joint pipe used.) Drain pipe Undoor unit Model 50 or smaller:ø12.7 brazed, Over 50:ø15.88 brazed (ø19.05 with optional joint pipe used.) Net weight kg 22 32 55	Model name Number of br Power source Power input Current External finisi Indoor unit ca connectable f Connectable Height	e e h apacity to 1 branch		60Hz 50Hz 60Hz mm	heating Cooling heating Cooling heating Cooling	0.060/0. 0.030/0. 0.048/0. 0.024/0. 0.28/0 0.14/0 0.22/0 0.11/0	4 068/0 034/0 054/0 027/0 .30/0. .15/0. .24/0. .12/0.	0.076 0.038 0.060 0.030 .32 16 25 13 Galvaniz Official joint pip Refer to t 2	ed steel p e combin the combi 284	se 220/23 0.119// 0.060// 0.096// 0.048// 0.28/ 0.28/ 0.22/ 0.44/ 0.22/ 0late (Low Model P g 2 brance	8 00/240V 50Hz/60 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 //er part drain par 80 or smaller	n painti	0.237 0.119 0.192 0.096 1.0 0.5 0.8 0.4 ing N1.5) capacity excee	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 5/0.18/0.120 8/1.17/1.26 5/0.59/0.63 8/0.94/0.99 4/0.47/0.50 284
-P200, P201-P350 -P200, P201-P450 To Main BC controller High pressure pipe ø15.88 (ø5/8) Brazed ø19.05 (ø3/4) Brazed ø22.2 (ø7/8) Brazed High pressure pipe ø19.05 (ø3/4) Brazed ø19.05 (ø3/4) Brazed ø22.2 (ø7/8) Brazed Low pressure pipe ø19.05 (ø3/4) Brazed ø22.2 (ø7/8) Brazed ø28.58 (ø1-1/8) Brazed Liquid pipe ø9.52 (ø3/8) Brazed ø12.7 (ø1/2) Brazed ø15.88 (ø5/8) Brazed To indoor unit Model 50 or smaller:ø6.35 brazed, Over 50:ø9.52 brazed (ø12.7 with optional joint pipe used.) Drain pipe Indoor unit Model 50 or smaller:ø1.27 brazed, Over 50:ø15.88 brazed Net weight kg 22 32	Model name Number of br Power source Power input Current External finis! Indoor unit ca connectable f Connectable Height Width	e e h apacity to 1 branch		60Hz 50Hz 60Hz mm	heating Cooling heating Cooling heating Cooling	0.060/0. 0.030/0. 0.048/0. 0.024/0. 0.28/0 0.14/0 0.22/0 0.11/0	4 068/0 034/0 054/0 027/0 .30/0. .15/0. .24/0. .12/0.	0.076 0.038 0.060 0.030 32 16 25 13 Galvaniz ptional joint pip Refer to 1 2 6	ed steel p e combin the combi 284	se 220/23 0.119// 0.060// 0.096// 0.048// 0.28/ 0.28/ 0.22/ 0.44/ 0.22/ 0late (Low Model P g 2 brance	8 00/240V 50Hz/60 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 //er part drain par 80 or smaller	n painti	0.237 0.119 0.192 0.096 1.0 0.5 0.8 0.4 ing N1.5) capacity excee	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 5/0.108/0.120 8/1.17/1.26 5/0.59/0.63 8/0.94/0.99 4/0.47/0.50 eds 81.) 284 1,098
Refrigerant piping diameter To Main BC controller -P200 P201-P300 P301-P350 P351-P400 P401-P450 Refrigerant piping diameter High pressure pipe ø15.88 (ø5/8) Brazed ø19.05 (ø3/4) Brazed ø22.2 (ø7/8) Brazed ø22.2 (ø7/8) Brazed To indoor unit Liquid pipe ø9.52 (ø3/8) Brazed ø22.2 (ø7/8) Brazed ø12.7 (ø1/2) Brazed ø15.88 (ø5/8) Brazed Drain pipe To indoor unit Model 50 or smaller:ø0.35 brazed, Over 50:ø0.52 brazed (ø12.7 with optional joint pipe used.) Indoor unit Model 50 or smaller:ø0.35 brazed, Over 50:ø0.58 brazed (ø19.05 with optional joint pipe used.) Drain pipe Drain pipe 0.D. 32mm 0.D. 32mm	Model name Number of br Power source Power input Current External finis! Indoor unit ca connectable f Connectable Height Width	e e h apacity to 1 branch		60Hz 50Hz 60Hz mm	heating Cooling heating Cooling heating Cooling	0.060/0. 0.030/0. 0.048/0. 0.024/0. 0.28/0 0.14/0 0.22/0 0.11/0	4 068/0 034/0 054/0 027/0 .30/0. .15/0. .24/0. .12/0.	0.076 0.038 0.060 0.030 32 16 25 13 Galvaniz ptional joint pip Refer to to 2 6 4	ed steel p e combin the combi 284 348 332	se 220/23 0.119// 0.060// 0.048// 0.55 0.28/ 0.44/ 0.22/ olate (Low Model P g 2 brand ination ch	8 0/240V 50Hz/60 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 rer part drain par 80 or smaller thes when the to art of BC control	n painti otal unit	0.237 0.119 0.096 1.0 0.5 0.8 0.4 ing N1.5) capacity excee WR2 series	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 5/0.108/0.120 8/1.17/1.26 5/0.59/0.63 8/0.94/0.99 4/0.47/0.50 eds 81.) 284 1,098
Refrigerant piping diameter High pressure pipe Ø15.88 (ø5/8) Brazed Ø19.05 (ø3/4) Brazed Ø22.2 (ø7/8) Brazed Image: Provide the system of the s	Model name Number of br Power source Power input Current External finis! Indoor unit ca connectable f Connectable Height Width	e e h apacity to 1 branch		60Hz 50Hz 60Hz mm	heating Cooling heating Cooling heating Cooling	0.060/0. 0.030/0. 0.048/0. 0.024/0. 0.28/0 0.14/0 0.22/0 0.11/0	4 068/0 034/0 054/0 027/0 .30/0. .15/0. .24/0. .12/0.	2.076 0.038 0.060 0.030 32 16 25 13 Galvaniz ptional joint pip Refer to t 2 6 4 Total ind	ed steel p e combin the comb 284 348 332 oor unit c	se 220/23 0.119// 0.060// 0.096// 0.048// 0.0555 0.28/ 0.44/ 0.22/ 0late (Low Model P og 2 brand ination ch	8 00/240V 50Hz/60 0.135/0.151 0.068/0.076 0.135/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 ver part drain par 80 or smaller thes when the to art of BC control	n painti otal unit	0.237 0.119 0.096 1.0 0.5 0.8 0.4 ing N1.5) capacity excee WR2 series	16 7/0.269/0.301 j/0.135/0.151 2/0.216/0.237 5/0.108/0.120 8/1.17/1.26 5/0.58/0.63 8/0.94/0.99 4/0.47/0.50 284 1,098 432
Refrigerant piping diameter Iow pressure pipe Ø19.05 (Ø3/4) Brazed Ø22.2 (Ø7/8) Brazed Ø28.58 (Ø1-1/8) Brazed Ø15.88 (Ø5/8) Brazed To indoor unit Iuquid pipe Ø9.52 (Ø3/8) Brazed Ø12.7 (Ø1/2) Brazed Ø15.88 (Ø5/8) Brazed Gas pipe Indoor unit Model 50 or smaller:Ø1.35 brazed, Over 50:Ø1.58 brazed (Ø12.7 with optional joint pipe used.) Indoor unit Model 50 or smaller:Ø1.7 brazed, Over 50:Ø1.58 brazed Drain pipe Over 50:Ø1.58 brazed Ø10.55 with optional joint pipe used.) Net weight kg 22 32	Model name Number of br Power source Power input Current External finis! Indoor unit ca connectable f Connectable Height Width	h apacity to 1 branch Outdoor unit ★		60Hz 50Hz 60Hz mm	heating Cooling heating Cooling heating Cooling	0.060/0. 0.030/0. 0.024/0. 0.22/0 0.14/0 0.22/0 0.11/0 (+L	4 068/0 034/0 054/0 027/0 .30/0. .15/0. .24/0. .12/0.	2.076 0.038 0.060 0.030 .32 .16 .25 .13 Galvaniz ptional joint pip Refer to t 2 6 4 Total ind	ed steel p e combin the combin th	se 220/23 0.119/ 0.060/ 0.096/ 0.048/ 0.55/ 0.28/ 0.44/ 0.22/ Diate (Low Model P g 2 brand ination ch	8 0/240V 50Hz/60 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 ver part drain par 80 or smaller thes when the to art of BC control	n painti otal unit ub BC c	0.237 0.119 0.192 0.096 1.0 0.5 0.8 0.4 ing N1.5) capacity excee WR2 series	16 7/0.269/0.301 7/0.269/0.301 2/0.135/0.151 2/0.216/0.237 5/0.108/0.120 8/1.17/1.26 5/0.59/0.63 8/0.94/0.99 4/0.47/0.50 eds 81.) 284 1,098 432 0, P201-P450
piping diameter To indoor unit Liquid pipe Liquid pipe	Model name Number of br Power source Power input Current External finis! Indoor unit ca connectable f Connectable Height Width	h apacity to 1 branch Outdoor unit ★ To Main BC	A	60Hz 50Hz 60Hz mm mm	heating Cooling heating Cooling heating Cooling heating	0.060/0. 0.030/0. 0.024/0. 0.22/0 0.14/0 0.22/0 0.11/0 (+L	4 068/0 034/0 054/0 027/0 .30/0. .15/0. .24/0. .12/0. Jse op	2.076 2.038 2.060 2.030 3.2 1.16 2.5 1.3 Galvaniz ptional joint pip Refer to t 2 6 4 Total ind ~ P201-P3	ed steel p e combin the combin the combine the combinet the combinet th	se 220/23 0.119/ 0.060/ 0.096/ 0.048/ 0.55/ 0.28/ 0.44/ 0.22/ 0late (Low Model P g 2 brand ination ch egapacity c 201~P35C P30	8 10/240V 50Hz/60 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 ver part drain par 80 or smaller thes when the to art of BC control connected this Su 11~P350	n painti otal unit ub BC c	0.237 0.119 0.192 0.096 1.0 0.5 0.8 0.4 ing N1.5) capacity excee WR2 series	16 7/0.269/0.301 7/0.269/0.301 2/0.135/0.151 2/0.216/0.237 5/0.108/0.120 8/1.17/1.26 5/0.59/0.63 8/0.94/0.99 4/0.47/0.50 eds 81.) 284 1,098 432 0, P201-P450
diameter Liquid pipe Indoor unit Model 50 or smaller:ø6.35 brazed, Over 50:ø9.52 brazed (ø12.7 with optional joint pipe used.) Indoor unit Model 50 or smaller:ø12.7 brazed, Over 50:ø15.88 brazed (ø19.05 with optional joint pipe used.) Indoor unit Model 50 or smaller:ø12.7 brazed, Over 50:ø15.88 brazed (ø19.05 with optional joint pipe used.) Drain pipe O.D. 32mm Net weight kg 22 32 55	Model name Number of br Power source Power input Current External finis! Indoor unit ca connectable f Connectable Height Width	h apacity to 1 branch Outdoor unit ★ To Main BC	A	60Hz 50Hz 60Hz mm mm	heating Cooling heating Cooling heating Cooling heating	0.060/0. 0.030/0. 0.024/0. 0.22/0 0.11/0 0.22/0 0.11/0 (+L	4 068/0 034/0 054/0 027/0 .30/0. .15/0. .24/0. .12/0. Jse op	0.076 0.038 0.030 0.32 16 25 13 Galvaniz ptional joint pip Refer to t 2 6 4 Total ind ~ P201~P3 ø1	ed steel p e combin the combine the combinet the	se 220/23 0.119/ 0.060/ 0.096/ 0.048/ 0.55/ 0.28/ 0.44/ 0.22/ 0late (Low Model P g 2 brand ination ch egapacity c 201~P35C P30	8 10/240V 50Hz/60 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 ver part drain par 80 or smaller thes when the to art of BC control connected this Su 11~P350	n painti otal unit ub BC c	0.237 0.119 0.099 1.0 0.5 0.8 0.4 ing N1.5) capacity excee WR2 series controller -P200 51~P400	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 5/0.108/0.120 8/1.17/1.26 5/0.59/0.63 8/0.94/0.99 4/0.47/0.50 eds 81.) 284 1,098 432 0, P201-P450 P401-P450
diameter unit Liquid pipe Indoor unit Model 50 or smaller:ø6.35 brazed, Over 50:ø9.52 brazed (ø12.7 with optional joint pipe used.) Gas pipe Indoor unit Model 50 or smaller:ø12.7 brazed, Over 50:ø15.88 brazed (ø19.05 with optional joint pipe used.) Drain pipe O.D. 32mm Net weight kg 22 32 55	Model name Number of br Power source Power input Current External finisi Indoor unit ca connectable f Connectable Height Width Depth	h apacity to 1 branch Outdoor unit ★ To Main BC	A	60Hz 50Hz 60Hz mm mm	heating Cooling heating Cooling heating Cooling heating	0.060/0. 0.030/0. 0.024/0. 0.22/0 0.11/0 0.22/0 0.11/0 (+L	4 068/0 034/0 054/0 027/0 .30/0. .15/0. .24/0. .12/0. Jse op	0.076 0.038 0.030 0.32 16 25 13 Galvaniz ptional joint pip Refer to t 2 6 4 Total ind ~ P201~P3 ø1	ed steel p e combin the combine the combinet the	se 220/23 0.119/ 0.060/ 0.096/ 0.048/ 0.55/ 0.28/ 0.44/ 0.22/ 0late (Low Model P g 2 brand ination ch egapacity c 201~P35C P30	8 10/240V 50Hz/60 .135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 rer part drain par 80 or smaller thes when the to art of BC control 000000000000000000000000000000000000	n painti otal unit ller R2/ ub BC c P3	0.237 0.119 0.099 1.0 0.5 0.8 0.4 ing N1.5) capacity excee WR2 series wR2 series	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 5/0.108/0.120 8/1.17/1.26 5/0.59/0.63 8/0.94/0.99 4/0.47/0.50 eds 81.) 284 1,098 432 0, P201-P450 P401-P450
To indoor unit Liquid pipe (Ø12.7 with optional joint pipe used.) Gas pipe Indoor unit Model 50 or smaller.ø12.7 brazed, Over 50.ø15.88 brazed (Ø19.05 with optional joint pipe used.) Drain pipe O.D. 32mm Net weight kg 22 32 55	Model name Number of br Power source Power input Current External finisi Indoor unit ca connectable f Connectable Height Width Depth Refrigerant	h apacity to 1 branch Outdoor unit ★ To Main BC	A High (60Hz 50Hz 60Hz 60Hz mm mm	heating Cooling heating Cooling heating Cooling heating	0.060/0. 0.030/0. 0.024/0. 0.28/0 0.14/0 0.22/0 0.11/0 (+L 	4 068/0 034/0 054/0 027/0 .30/0. .15/0. .24/0. .12/0. Jse op	0.076 0.038 0.060 0.030 32 16 25 13 Galvaniz ptional joint pip Refer to 1 2 6 4 Total ind ~ P201-P3 01 22.2 (ø7/8)	ed steel p e combin the combine the combinet the	se 220/23 0.119/ 0.060/ 0.096/ 0.048/ 0.55/ 0.28/ 0.44/ 0.22/ 0late (Low Model P g 2 brand ination ch egapacity c 201~P35C P30	8 0/240V 50Hz/60 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 rer part drain par 80 or smaller thes when the to art of BC control connected this Su 11~P350 d g	n painti otal unit uller R2/ ub BC c P3 o28.58 (0.237 0.119 0.096 1.0 0.5 0.8 0.4 ing N1.5) capacity excee WR2 series wWR2 series controller -P200 51-P400 ø22.2 (ø77 ø1-1/8) Brazed	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 5/0.108/0.120 8/1.17/1.26 5/0.59/0.63 8/0.94/0.99 4/0.47/0.50 eds 81.) 284 1,098 432 0, P201-P450 P401-P450
unit Gas pipe Indoor unit Model 50 or smaller:ø12.7 brazed, Over 50:ø15.88 brazed (ø19.05 with optional joint pipe used.) Drain pipe O.D. 32mm Net weight kg 22 32 55	Model name Number of br Power source Power input Current External finisi Indoor unit ca connectable f Connectable Height Width Depth Refrigerant piping	h apacity to 1 branch Outdoor unit ★ To Main BC	A High p Liquid	60Hz 50Hz 60Hz 60Hz	heating Cooling heating Cooling heating Cooling heating	0.060/0. 0.030/0. 0.024/0. 0.28/0 0.14/0 0.22/0 0.11/0 (+L 	4 068/0 034/0 054/0 027/0 .30/0. .15/0. .24/0. .12/0. Jse op	0.076 1.038 1.038 1.060 1.030 1.32 1.15 25 1.3 Galvaniz ptional joint pip Refer to 1 25 6 4 Total ind ~ P201-P3 01 22.2 (ø7/8) 8) Brazed	ed steel p e combin the combin th	se 220/23 0.119/ 0.060/ 0.096/ 0.048/ 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28	8 8/0/240V 50Hz/60 0.135/0.151 0.068/0.076 0.135/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 ver part drain par 80 or smaller thes when the to art of BC control 0.24/0.25 ver part drain par 80 or smaller thes when the to art of BC control 0.11-P350 d 0.2.7 (ø1/2)	n paintii tal unit ub BC c c P3 28.58 (i	0.237 0.119 0.096 1.0 0.5 0.8 0.4 ing N1.5) capacity excee WR2 series controller -P200 51-P400 ø22.2 (ø7) ø1-1/8) Brazed d	16 7/0.269/0.301 3/0.135/0.151 2/0.216/0.237 5/0.108/0.120 8/1.17/1.26 5/0.59/0.63 8/0.94/0.99 4/0.47/0.50 eds 81.) 284 1,098 432 0, P201-P450 P401-P450 P401-P450 8/8 Brazed
Gas pipe (Ø19.05 with optional joint pipe used.) Drain pipe O.D. 32mm Net weight kg 22 32 55	Model name Number of br Power source Power input Current External finisi Indoor unit ca connectable f Connectable Height Width Depth Refrigerant piping	h apacity to 1 branch Outdoor unit ★ To Main BC controller	A High p Liquid	60Hz 50Hz 60Hz 60Hz	heating Cooling heating Cooling heating Cooling heating	0.060/0. 0.030/0. 0.024/0. 0.28/0 0.14/0 0.22/0 0.11/0 (+L 	4 068/0 034/0 054/0 027/0 .30/0. .15/0. .24/0. .12/0. Jse op	0.076 1.038 1.038 1.060 1.030 1.32 1.15 25 1.3 Galvaniz ptional joint pip Refer to 1 25 6 4 Total ind ~ P201-P3 01 22.2 (ø7/8) 8) Brazed	ed steel p e combini the combi	se 220/23 0.119/ 0.060/ 0.096/ 0.048/ 0.22 0.28 0.44/ 0.22 0late (Low Model P g 2 branc ination ch sapacity c 201~P35C P32 /4) Braze	8 0/240V 50Hz/60 0.135/0.151 0.068/0.076 0.135/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 ver part drain par 80 or smaller thes when the to art of BC control 1-P350 d 02.27 (ø1/2) ø6.35 brazed, O	n paintit tal unit ub BC c P3 228.58 (r) Braze ver 50::52	0.237 0.119 0.096 1.0 0.5 0.8 0.4 ing N1.5) capacity excee WR2 series controller -P200 51-P400 ø22.2 (ø7) ø1-1/8) Brazed d	16 7/0.269/0.301 3/0.135/0.151 2/0.216/0.237 5/0.108/0.120 8/1.17/1.26 5/0.59/0.63 8/0.94/0.99 4/0.47/0.50 eds 81.) 284 1,098 432 0, P201-P450 P401-P450 P401-P450 8/8 Brazed
Drain pipe O.D. 32mm Net weight kg 22 32 55	Model name Number of br Power source Power input Current External finisi Indoor unit ca connectable f Connectable Height Width Depth Refrigerant piping	h apacity to 1 branch Outdoor unit * To Main BC controller To indoor	A High ŋ Low p Liquic	60Hz 50Hz 60Hz 60Hz mm mm mm mm mm	heating Cooling heating Cooling heating Cooling heating	0.060/0. 0.030/0. 0.024/0. 0.28/0 0.14/0 0.22/0 0.11/0 (+L 	4 068/0 034/0 0054/0 027/0 0 027/0 0 027/0 0 027/0 0 027/0 0 0 027/0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.076 0.038 0.060 0.030 .32 16 .25 13 Galvaniz ptional joint pip Refer to 1 2 6 6 4 Total ind ~ P201-P3 ø1 ø22.2 (ø7/8) 8) Brazed Indoor unit Mo	ed steel p e combinithe combinith	se 220/23 0.119/ 0.060/ 0.096/ 0.048/ 0.55/ 0.28/ 0.44/ 0.22/ 0late (Low Model P g 2 brand ination ch sapacity c 201-P350 P36/ P36/ P36/ P36/ P36/ P36/ P36/ P36/	8 0/240V 50Hz/60 0.135/0.151 0.068/0.076 0.135/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 ver part drain par 80 or smaller thes when the to art of BC control 0 11~P350 d 0 0.22.7 (ø1/2) 0.35 brazed, O onal joint pipe us	n painti tal unit ub BC (P3 228.58 (i) Braze ver 50: sed.)	0.237 0.119 0.096 1.0 0.5 0.8 0.4 ing N1.5) capacity excee WR2 series controller P200 51-P400 022.2 (ø7) ø1-1/8) Brazed	16 7/0.269/0.301 3/0.135/0.151 2/0.216/0.237 5/0.108/0.120 8/1.17/1.26 5/0.59/0.63 8/0.94/0.99 4/0.47/0.50 eds 81.) 284 1,098 432 0, P201-P450 P401-P450 8/8 Brazed
Net weight kg 22 32 55	Model name Number of br Power source Power input Current External finisi Indoor unit ca connectable f Connectable Height Width Depth Refrigerant piping	h apacity to 1 branch Outdoor unit * To Main BC controller To indoor	A High ŋ Low p Liquic	60Hz 50Hz 60Hz 60Hz mm mm mm mm mm	heating Cooling heating Cooling heating Cooling heating	0.060/0. 0.030/0. 0.024/0. 0.28/0 0.14/0 0.22/0 0.11/0 (+L 	4 068/0 034/0 0054/0 027/0 0 027/0 0 027/0 0 027/0 0 027/0 0 0 027/0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.076 0.038 0.060 0.030 .32 16 .25 13 Galvaniz ptional joint pip Refer to 1 2 6 6 4 Total ind ~ P201-P3 ø1 ø22.2 (ø7/8) 8) Brazed Indoor unit Mo	ed steel p e combin the combin th	se 220/23 0.119/ 0.060/ 0.096/ 0.096/ 0.28/ 0.28/ 0.22/ 0.22/ 0/ 0/ 0/ 0/ 0/ 0/ 0/ 0/ 0/ 0	8 8 10/240V 50Hz/60 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 ver part drain par 80 or smaller thes when the to art of BC control 11~P350 d 0 0.21/2 0.35 brazed, Ov part of part of part of the second 0 0 0 0 0 0 0 0 0 0 0 0 0	n painti tal unit iller R2/ P3 228.58 (() Braze ver 50:: sed.) ver 50::	0.237 0.119 0.096 1.0 0.5 0.8 0.4 ing N1.5) capacity excee WR2 series controller P200 51-P400 022.2 (ø7) ø1-1/8) Brazed	16 7/0.269/0.301 3/0.135/0.151 2/0.216/0.237 5/0.108/0.120 8/1.17/1.26 5/0.59/0.63 8/0.94/0.99 4/0.47/0.50 eds 81.) 284 1,098 432 0, P201-P450 P401-P450 8/8 Brazed
•	Model name Number of br Power source Power input Current External finisi Indoor unit ca connectable f Connectable Height Width Depth Refrigerant piping diameter	h apacity to 1 branch Outdoor unit * To Main BC controller To indoor	A High ŋ Low p Liquic	60Hz 50Hz 60Hz 60Hz mm mm mm mm mm	heating Cooling heating Cooling heating Cooling heating	0.060/0. 0.030/0. 0.024/0. 0.28/0 0.14/0 0.22/0 0.11/0 (+L 	4 068/0 034/0 0054/0 027/0 0 027/0 0 027/0 0 027/0 0 027/0 0 0 027/0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.076 0.038 0.060 0.030 .32 16 .25 13 Galvaniz ptional joint pip Refer to 1 2 6 6 4 Total ind ~ P201-P3 ø1 ø22.2 (ø7/8) 8) Brazed Indoor unit Mo	ed steel p e combin the combin th	se 220/23 0.119/(0.060/(0.096/(0.048/(0.55/ 0.28/ 0.44/ 0.22/ olate (Low Model P g 2 branc ination ch capacity c 201~P35C P30 /4) Braze r smaller: with optic smaller: is with optic	8 0/240V 50Hz/60 .135/0.151 0.068/0.076 0.108/0.119 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 ver part drain par 80 or smaller thes when the to art of BC control 0 0 0 11-P350 d 0 0.12.7 (ø1/2) 0 0 0 12.7 brazed, Ov onal joint pipe us	n painti tal unit iller R2/ P3 228.58 (() Braze ver 50:: sed.) ver 50::	0.237 0.119 0.096 1.0 0.5 0.8 0.4 ing N1.5) capacity excee WR2 series controller P200 51-P400 022.2 (ø7) ø1-1/8) Brazed	16 7/0.269/0.301 3/0.135/0.151 2/0.216/0.237 5/0.108/0.120 8/1.17/1.26 5/0.59/0.63 8/0.94/0.99 4/0.47/0.50 eds 81.) 284 1,098 432 0, P201-P450 P401-P450 8/8 Brazed
Accessories •Drain connection pipe (with flexible hose and insulation) •Reducer	Model name Number of br Power source Power input Current External finisi Indoor unit ca connectable f Connectable Height Width Depth Refrigerant piping diameter Drain pipe	h apacity to 1 branch Outdoor unit * To Main BC controller To indoor	A High p Low p Liquic Liquic Gas p	60Hz 50Hz 60Hz 60Hz mm mm mm mm mm	heating Cooling heating Cooling heating Cooling heating	0.060/0. 0.030/0. 0.048/0. 0.22/0 0.14/0 0.22/0 0.11/0 (•L (•L -P200 Ø15.88 (ø5/8) Bra Ø19.05 (ø3/4) Bra Ø9.52	4 068/0 034/0 054/0 027/0 .30/0 .15/0 .24/0 .12/0 Jse op Jse op 2 (ø3/d	2.076 0.038 0.060 0.030 .32 16 .25 13 Galvaniz ptional joint pip Refer to 1 2 6 6 4 Total ind ~ P201-P3 ø1 ø22.2 (ø7/8) 8) Brazed Indoor unit Mo	ed steel p e combin the combin th	se 220/23 0.119/(0.060/(0.096/(0.048/(0.55/ 0.28/ 0.44/ 0.22/ olate (Low Model P g 2 branc ination ch capacity c 201~P35C P30 /4) Braze r smaller: with optic smaller: is with optic	8 00/240V 50Hz/60 0.135/0.151 0.068/0.076 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 rer part drain par 80 or smaller thes when the to art of BC control 0.11-P350 d 0 0.21.7 (ø1/2) 0.35 brazed, O 0 onal joint pipe us 0.32mm	n painti tal unit iller R2/ P3 228.58 (() Braze ver 50:: sed.) ver 50::	0.237 0.119 0.096 1.0 0.5 0.8 0.4 ing N1.5) capacity excee WR2 series controller P200 51-P400 022.2 (ø7) ø1-1/8) Brazed	16 7/0.269/0.301 3/0.135/0.151 2/0.216/0.237 5/0.108/0.120 8/1.17/1.26 5/0.59/0.63 8/0.94/0.99 4/0.47/0.50 284 1,098 432 0, P201-P450 P401-P450 P401-P450 Ø 15.88 (ø5/8) Brazed

★ Combination chart of BC Controller for R2 series

	P200,250,300,350	P400-650	P700-900
CMB-P V-G1	0	Х	Х
CMB-P V-GA1	0	0	Х
CMB-P V-HA1	Х	Х	0
CMB-P V-GB1	0	0	0
CMB-P V-HB1	0	0	0

★ Combination chart of BC Controller for WR2 series

	P200,250,300	P400,450,500,550,600
CMB-P V-G1	0	Х
CMB-P V-GA1	0	0
CMB-P V-HA1	Х	Х
CMB-P V-GB1	0	0
CMB-P V-HB1	0	0

Notes:

- Interesting and an equipment is for R410A refrigerant.
 Install this product is a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors. (For use in quiet environments with low background noise, position the BC CONTROLLER at least 5 m away from any indoor units.)
 Indoor units P100, P125, P140 can be connected to 1 branch. (In this case, cooling capacity decrease a little.)
 When using an outdoor unit 28HP (P700) or more, use CMB-P1016V-HA1.

5. For sub BC controller CMB-P-B-GB1 the connectable indoor unit capacities may sum to equal that of a P350 unit or less. However, if two sub controllers are used the TOTAL sum of connectable units connected to BOTH sub controllers must also not exceed that a P350 unit. For sub BC controller CMB-P-1016/vHB1 the connectable indoor unit capacities may sum to equal that of a P350 unit or less. However, if two sub controllers are used the TOTAL sum of connectable units connected to BOTH sub controllers must also not exceed that a P450 unit.

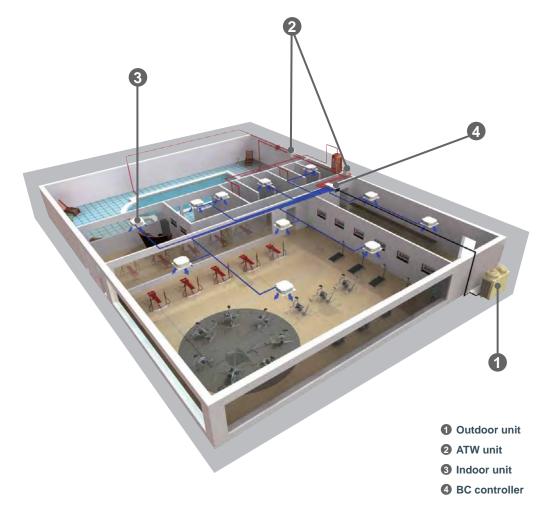
Air to Water series

PWFY-P100VM-E-BU PWFY-P100VM-E1-AU PWFY-P200VM-E1-AU

Air to Water advanced system explained

Air To Water (ATW) series offers the choice between two types of units; a Booster unit and a HEX (Heat Exchanger) unit. A Booster unit offers hot water to a maximum of 70°C and HEX unit offers 45°C in heating and down to 8°C in cooling. Applying heat pump and heat recovery technology to provide hot water, the units are suitable for residences, office buildings, restaurants or hotels, providing an optimal environment while being cost effective and a reduced impact on the environment.

ATW system consists of an outdoor unit, a BC controller when connected with R2 series, ATW unit, indoor unit and a controller.





Line Up

1 ATW UNIT

BOOSTER UNIT

Benefiting from the heat recovery operation of the CITY MULTI R2 system, Booster unit converts energy from the air to higher temperatures suitable for supplying hot water and results in virtually no energy waste.



PWFY-P100VM-E-BU

Connectable to

CITY MULTI R2/WR2 series REPLACE MULTI R2 series

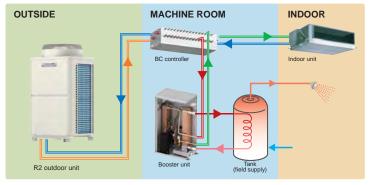
Applications

best for sanitary water, shower, etc.

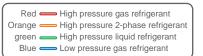


up to 70°C

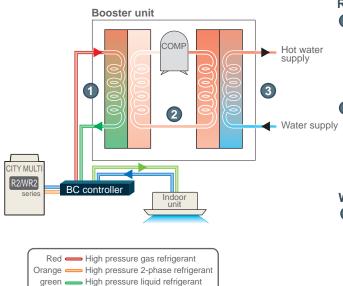
SYSTEM OUTLINE



The Booster unit is connected to a BC controller with refrigerant pipes, and to the water tank with water pipes. The waste heat from cooling operation is utilised for heating operation which provides hot water.



What makes the Booster unit unique?



Blue — Low pressure gas refrigerant

Refrigerant flow

From the BC controller, high pressure R410A gas refrigerant is delivered to the Booster unit to exchange heat with the low pressure R134a liquid refrigerant circulating through (2) and returns to the BC controller as a high pressure liquid refrigerant.

2 Refrigerant R134a circulates inside the two plate heat exchangers inside the unit.

Temperature rises as low-pressure R134a gas refrigerant is compressed by the compressor and becomes high-pressure gas refrigerant.

Water supply

Water entering the Booster unit exchanges heat with high-pressure R134a gas refrigerant. The hot water circulates to heat the water inside the tank which will be used for showers, sanitary water, etc.

HEX UNIT

By utilising waste heat from the R2 outdoor unit for heating operation in HEX unit, it is possible to supply hot water with high efficiency. Even when connected with the Y series, it provides efficient operation compared to a conventional system.

Connectable to

CITY MULTI R2/WR2/ Y/WY/ZUBADAN series S series REPLACE MULTI R2/Y series Applications best for floor heating, panel heater, fan-coil unit(AHU), etc.

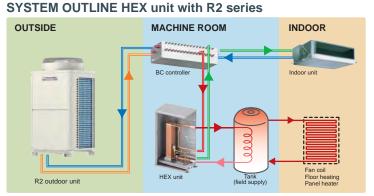
Operation

hot water up to 45°C cold water down to 8°C

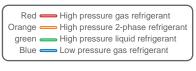
HEX unit is connected to BC controller with

PWFY-P100VM-E1-AU

PWFY-P200VM-E1-AU

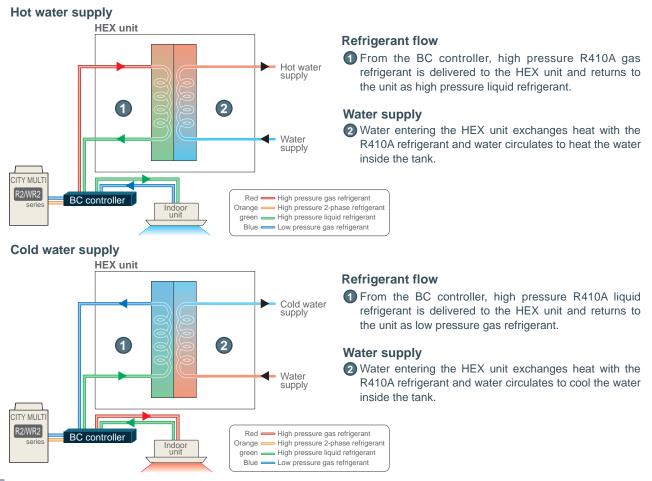


HEX unit is connected to BC controller with refrigerant pipes, and to the water tank with water pipes. HEX unit is not equipped with a compressor.



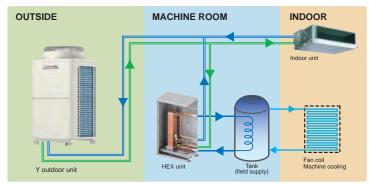
*The image is a system example in case of heating mode. *The necessity of the tank depends on the system configuration.

What makes HEX unit unique with R2/WR2 series?

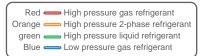


Indoor Unit

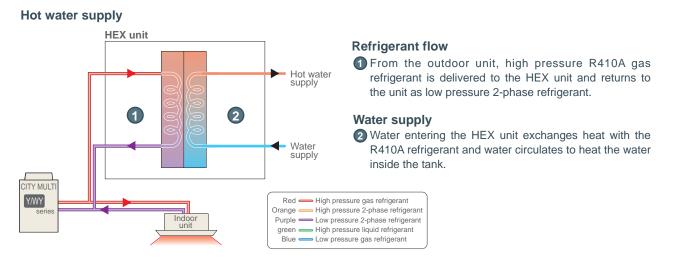
SYSTEM OUTLINE HEX unit with Y series



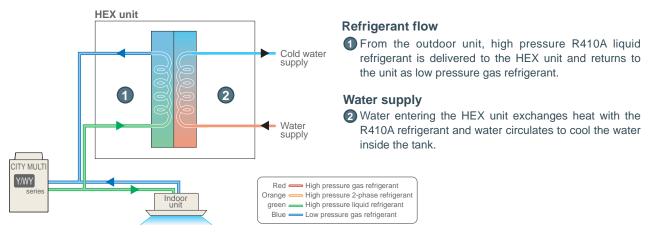
HEX unit is connected to Y outdoor unit with refrigerant pipes, and to the water tank with water pipes. HEX unit is not equipped with a compressor.



What makes HEX unit unique with Y/WY series?



Cold water supply



2BC CONTROLLER

To connect R2/WR2 series outdoor units and ATW indoor units, a BC controller will be used.

		BC controller		
Connect	table ATW system	Booster/HEX		
Outdoor unit	Connectable series	R2*/WR2		
	Connectable capacity	P200-P900		
ATW/	Connectable qty	1-50		
Indoor unit	Connection method	With BC's port		
	Operation mode	Cooling AND heating		
Pr	oduct image			



Unit information

Outdoor unit: Air-cooled R2 series x 3, BC controller x 3ATW unit: Booster unit x3Indoor unit : Ceiling conealed type x11, Ceiling cassette type x9Control: AG-150A x1, ATW controller x 3, PAR-30MAA x20, Power supply unit x 1

Background

The mid town apartments required air conditioning, fresh air, and sanitary water. As a perfect solution that can provide all three, the consultant proposed the Air to Water system+CITY MULTI+OA processing unit. With the combination of Mitsubishi Electric's product lineup, the system can provide hot water without a boiler and air conditioning with a high COP. Whats more, with the OA processing unit in a system, suitable ventilation with top quality air and energy saving environment is created.



ATW UNIT Booster Unit PWFY-P VM-E-BU

► Specifications



Model			PWFY-P100VM-E-BU					
Power source			1-phase 220-230-240V 50 / 60Hz					
	*1	kW	12.5					
	*1	kcal/h	10,800					
Heating capacity (Nominal)	*1	BTU/h	42,700					
(Nominal)	Power input	kW	2.48					
	Current input	A	11.63-11.12-10.66					
Temp. range of	Outdoor unit/Heat	W.B.	-20~32°C (-4~90°F) R2-series					
	source unit condition	-	10~45°C (50~113°F) WR2-series					
heating	Booster unit inlet water temp.	-	10~70°C (50~158°F)					
Connectable outdoor	Total capacity		50~100% of outdoor unit/heat source unit capacity					
unit/heat source unit	Model / Quantity		R2 (Standard, Hi-COP), Replace R2, WR2 series only					
Sound pressure level (mea	asured in anechoic room)	dB <a>	44					
Diameter of refrigerant	Liquid	mm(in.)	ø9.52 (ø3/8") Brazed					
pipe	Gas	mm(in.)	ø15.88 (ø5/8") Brazed					
Diameter of water	Inlet	mm(in.)	PT3/4 Screw					
pipe	Outlet	mm(in.)	PT3/4 Screw					
Field drain pipe size		mm(in.)	ø32 (1-1/4")					
External finish			NO					
External dimension H × W × D in.		mm	800 (785 without legs) × 450 × 300					
		in.	31-1/2" (30-15/16" without legs) × 17-3/4" × 11-13/16"					
Net weight		kg(lbs)	60 (133)					
0	Туре		Inverter rotary hermetic compressor					
	Maker		MITSUBISHI ELECTRIC CORPORATION					
Compressor	Starting method		Inverter					
	Motor output	kW	1.0					
	Lubricant		NEO22					
Circulating water	Operation volume Range	m³/h	0.6~2.15					
	High pressure protect	tion	High pressure sensor, High pressure switch at 3.60 MPa (601 psi)					
Protection on internal	Inverter circuit (COM	P)	Over - heat protection, Over - current protection					
circuit (R134a)	Compressor		Discharge thermo protection, Over - current protection					
	Type × original charg	e *2	R134a × 1.1kg (0.50lb)					
Refrigerant	Control		LEV					
	R410A	MPa	4.15					
Design pressure	R134a	MPa	3.60					
	Water	MPa	1.00					
	External		WKB94L762					
Drawing	Wiring		WKE94C229					
	Document		Installation Manual, Instruction Book					
Standard attachment	Accessory		Strainer, Heat insulation material, 2 × Connector sets					
Optional parts			NONE					
Remark			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.					

Notes:

*1	Nominal	heating	conditions
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<R2-series> Outdoor Temp. : 7°CDB/6°CWB (45°FDB / 43°FWB) Pipe length : 7.5 m (24-9/16 ft) Level difference : 0m (0ft) Water flow rate 2.15m³/h Inlet water Temp 65°C

<WR2-series> Circulating water Temp. : 20°C (68°F) Pipe length : 7.5 m (24-9/16 ft) Level difference : 0m (0ft) Inlet water Temp 65°C Water flow rate 2.15m3/h

*2 Do not use refrigerant other than the type indicated in the manuals provided with the unit and on the nameplate. - Doing so may cause the unit or pipes to burst, or result in explosion or fire during use, during repair, or at the time of disposal of the unit.

- It may also be in violation of applicable laws

- MITSUBISHI ELECTRIC CORPORATION cannot be held responsible for malfunctions or accidents resulting from the use of the wrong type of refrigerant.

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

- * The unit is not designed for outside installations.
- * Please don't use the steel material for the water piping material. * Please always make water circulate or add the brine to the circulation water when the ambient temperature becomes 0°C (32°F) or less.
- * Please always make water circulate or pull out the circulation water completely when not using it.
- Please due to ot use groundwater and well water.
 Install the unit in an environment where the wet bulb Temp. will not exceed 32°C (90°F).

* The water circuit must use the closed circuit.

* Please do not use it as a drinking water.

ATW UNIT HEX Unit PWFY-P VM-E1-AU



► Specifications

Model			PWFY-P100VM-E1-AU	PWFY-P200VM-E1-AU			
Power source			1-phase 220-230-240V 50 / 60Hz	1-phase 220-230-240V 50 / 60Hz			
	*1	kW	12.5	25.0			
11	*1	kcal/h	10,800	21,500			
Heating capacity	*1	BTU/h	42,700	85,300			
(Nominal)	Power input	kW	0.015	0.015			
	Current input	A	0.068-0.065-0.063	0.068-0.065-0.063			
		W.B.	-15~15°C (5~60°F) S - series	-			
	0.11	W.B.	-20~15.5°C (-4~60°F) Y - series	-20~15.5°C (-4~60°F) Y - series			
	Outdoor unit/	W.B.	-25~15.5°C (-13~60°F) HP(ZUBADAN) - series	-25~15.5°C (-13~60°F) HP(ZUBADAN) - series			
	Heat source unit	W.B.	-20~32°C (-4~90°F) R2 - series	-20~32°C (-4~90°F) R2 - series			
Temp. range of	condition	-	10~45°C (50~113°F) WY - series	10~45°C (50~113°F) WY - series			
heating		-	10~45°C (50~113°F) WR2 - series	10~45°C (50~113°F) WR2 - series			
			10~45°C (50~113°F) S - series,				
	HEX unit inlet water	-	10~40°C (50~104°F) Y, HP(ZUBADAN),	10~40°C (50~104°F)			
	temp.		R2, WY, WR2 - series	10-40 0 (30-1041)			
	*2	kW	11.2	22.4			
	*2	kcal/h	9,600	19,300			
Cooling capacity	*2	BTU/h	*				
(Nominal)		kW	<u>38,200</u> 0.015	76,400 0.015			
	Power input						
	Current input	A	0.068-0.065-0.063	0.068-0.065-0.063			
	0.11	D.B.	-5~46°C (23~115°F) Y - series	-5~46°C (23~115°F) Y - series			
	Outdoor unit/	D.B.	-5~43°C (23~110°F) HP(ZUBADAN) - series	-5~43°C (23~110°F) HP(ZUBADAN) - series			
Temp. range of	Heat source unit	D.B.	-5~46°C (23~115°F) R2 - series	-5~46°C (23~115°F) R2 - series			
cooling	condition	-	10~45°C (50~113°F) WY - series	10~45°C (50~113°F) WY - series			
		-	10~45°C (50~113°F) WR2 - series	10~45°C (50~113°F) WR2 - series			
	HEX unit inlet water temp.	-	10~35°C (50~95°F)	10~35°C (50~95°F)			
	Total capacity		50~100% of outdoor unit/heat source unit capacity	50~100% of outdoor unit/heat source unit capacity			
Connectable outdoor			Y (Standard, Hi-COP), Replace Y,	Y (Standard, Hi-COP), Replace Y,			
unit/heat source unit	Model / Quantity		S, HP(ZUBADAN) series, R2 (Standard, Hi-COP),	HP(ZUBADAN) series, R2 (Standard, Hi-COP),			
		1	Replace R2, WY series, WR2 series	Replace R2, WY series, WR2 series			
Sound pressure level (me		dB <a>	29	29			
Diameter of refrigerant	Liquid	mm(in.)	ø9.52 (ø3/8") Brazed	ø9.52 (ø3/8") Brazed			
pipe	Gas	mm(in.)	ø15.88 (ø5/8") Brazed	ø19.05 (ø3/4") Brazed			
Diameter of water	Inlet	mm(in.)	PT3/4 Screw	PT 1 Screw			
pipe	Outlet	mm(in.)	PT3/4 Screw	PT 1 Screw			
Field drain pipe size		mm(in.)	ø32 (1-1/4")	ø32 (1-1/4")			
External finish			NO	NO			
External dimension H	× W × D	mm	800 (785 without legs) × 450 × 300	800 (785 without legs) × 450 × 300			
	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	in.	31-1/2" (30-15/16" without legs) x 17-3/4" x 11-13/16"	31-1/2" (30-15/16" without legs) x 17-3/4" x 11-13/16"			
Net weight		kg(lbs)	35 (78)	38 (84)			
Circulating water	Operation Volume Range	m³/h	1.1~2.15	1.8~4.30			
	R410A	MPa	4.15	4.15			
Design pressure	Water	MPa	1.00	1.00			
Drowing	External		KD94R274	KD94R274			
Drawing	Wiring		WKE94C626	WKE94C626			
	Document		Installation Manual, Instruction Book	Installation Manual, Instruction Book			
Oten dead attach				Strainer, Connecter, Heat insulation material,			
Standard attachment	Accessory		Strainer, Heat insulation material,	2 × Connector sets, Expansion joint,			
			2 × Connector sets, Flow switch × 1 set, wire	Flow switch × 1 set, wire			
Optional parts	I		Solenoid valve kit: PAC-SV01PW-E	Solenoid valve kit; PAC-SV01PW-E			
			Details on foundation work, duct work, insula				
Remark			switch, and other items shall be referred to t	0.1			

Notes:

*
1 Nominal heating conditions
<S/Y/IP(ZUBADAN)/R2-series>
Outdoor Temp. : 7°CDB/6°CWB (45°FDB / 43°FWB)
Pipe length 7.5 m (24-9/16 ft)
Level difference : 0m (0ft)
Inlet water Temp 30°C
Water flow rate 2.15m³/h(P100), 4.30m³/h(P200)

*2 Nominal cooling conditions

- 2 Nominal Consider Control Constructions <Y/HP/2(ZUBADAN)/R2-series> Outdoor Temp. : 35°CB (95°FDB) Pipe length : 7.5 m (24-9/16 ft) Level difference : 0m (0ft) Inlet water Temp 23°C Water flow rate 1.93m³/h(P100), 3.86m³/h(P200)

- * Due to continuing improvement, the above specifications may be subject to change without notice.
 * The unit is not designed for outside installations.
 * Please don't use the steel material for the water piping material.

- Please don't use the steel materia for the water piping material.
 Please adways make water circulate or add the brine to the circulation water when the ambient temperature becomes 0°C (32°F) or less.
 Please adways make water circulate or add the brine to the circulation water completely when not using it.
 Please do not use groundwater and well water.
 Install the unit in an environment where the wet bulb Temp. will not exceed 32°C (90°F).
 The water circuit must use the closed circuit.
 Please do not use it as a drinking water.

Indoor Unit

<WY/WR2-series> Circulating water Temp. : 20°C (68°F) Pipe length : 7.5 m (24-9/16 ft) Level difference : 0m (0ft) Inlet water Temp 30°C Water flow rate 2.15m³/h(P100), 4.30m³/h(P200) <WY/WR2-series>

Circulating water Temp. : 30°C (86°F) Pipe length : 7.5 m (24-9/16 ft) Level difference : 0m (0ft) Inlet water Temp 23°C Water flow rate 1.93m³/h(P100), 3.86m³/h(P200)

Controller Remote Controller PAR-W21MAA





 \bigcirc : Each group X : Not available

Item	Description	Operations	Display
ON / OFF	Runs and stops the operation of a group of units	0	0
	Switches between Hot Water / Heating / Heating ECO / Anti - freeze / Cooling		
Operation mode switching	* Available operation modes vary depending on the unit to be connected.	0	0
	* Switching limit setting can be made via a remote controller.		
	Temperature can be set within the ranges below. (in increments of 1°C or 1°F)		
	Heating 30°C ~ 50°C		
	Heating ECO 30°C ~ 45°C		
Water temperature setting	Hot Water 30°C ~ 70°C	0	0
	Anti-freeze 10°C ~ 45°C		
	Cooling 10°C ~ 30°C		
	* The settable range varies depending on the unit to be connected.		
Preset temperature range limit	Preset temperature range setting can be limited via a remote controller.	0	0
Nater temperature display	10°C ~ 90°C		
	(in increments of 1°C or 1°F)	×	0
	* The settable range varies depending on the unit to be connected.		
	Individually prohibits operations of each local remote control function : ON / OFF,		
Permit / Prohibit local operation	Operation modes, water temperature setting, Circulating water replacement warning reset.	×	0
	* Upper level controller may not be connected depending on the unit to be connected.		
Schedule operation	ON / OFF / Water temperature setting can be done up to 6 times one day in the week.	0	0
	(in increments of a minute)	U	0
Error display	When an error is currently occurring on a unit, the afflicted unit and the error code are displayed.	×	0
Self check (Error history)	Searches the latest error history by pressing the CHECK button twice.	0	0
Test run	Enables the Test run mode by pressing the TEST button twice.	0	0
lestiun	* Test run mode is not available depending on the unit to be connected.	U	0
	Displays the circulating water replacement warning via the unit message.		
Circulating water replacement warning	Clears the display by pressing the CIR.WATER button twice.	0	0
	* Circulating water replacement warning is not available depending on the unit to be connected.		
	Remote controller operation can be locked or unlocked.		
Operation locking function	All-switch locking	0	0
	Locking except ON / OFF switch		

Optional Parts Solenoid Valve kit

Note:

When you intend to adopt PWFY-AU with below system configuration, you may need to use optional part (PAC-SV01PW-E). Please contact your Mitsubishi Electric sales office for details.

Applicable System

System Configuration Y, HP(ZUBADAN), Replace Y, or WY* + PWFY-AU + Indoor Unit

*Solenoid valve kit will be used only when operating the WY at the water temperature below 10°C.

PAC-SV01PW-E

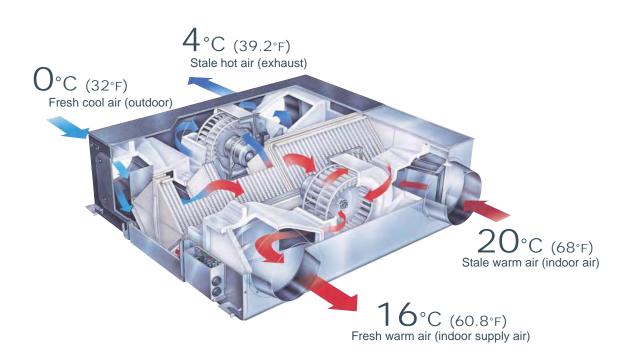
Item			Description					
Power source			1-phase 220-230	0-240V 50 / 60Hz				
Diameter of	Applicable models		PWFY-P100VM-E1-AU	PWFY-P200VM-E1-AU				
refrigerant pipe	Liquid	mm (in.)	ø15.88	ø19.05				
Temgerant pipe	Gas	mm (in.)	ø9.52	ø9.52				
External dimension H	w W/ w D	mm	462 × 320 × 207					
External dimension H	XWXD	in.	18-1/4" × 12-	5/8" × 8-3/16"				
Net weight		kg (lbs)	8.5	(19)				
Drawing	External		WKD9	WKD94T532				
Standard attachment	Document		Installation Manual					
	Accessory		Specification label, Refrigerant conn.pipe					





The Ventilation System for Enhanced Air Quality - Lossnay

Combine with Lossnay Ventilation System Enhanced Air Quality. Unified Control System Allows Greater Design Freedom.



 LGH-15RX5
 [150m³/h Single phase 220-240V 50Hz]

 LGH-25RX5
 [250m³/h Single phase 220-240V 50Hz]

 LGH-35RX5
 [350m³/h Single phase 220-240V 50Hz]

 LGH-50RX5
 [500m³/h Single phase 220-240V 50Hz]

 LGH-65RX5
 [500m³/h Single phase 220-240V 50Hz]

 LGH-80RX5
 [800m³/h Single phase 220-240V 50Hz]

 LGH-100RX5
 [1000m³/h Single phase 220-240V 50Hz]

 LGH-150RX5
 [1500m³/h Single phase 220-240V 50Hz]

 LGH-200RX5
 [2000m³/h Single phase 220-240V 50Hz]

Heat-Exchange Efficiency Obtainable Only with Lossnay.

The secret to the unmatched comfort provided by Lossnay core is the cross-flow, plate-fin structure of the heat-exchange unit. A diaphragm made of a specially processed paper fully separates inducted and exhausted air supplies, ensuring that only fresh air is introduced to the indoor environment.

The superior heat-transfer and moisture permeability of the special paper assure highly effective total heat exchange (temperature and humidity) when inducted and exhausted air supplies cross in the Lossnay core.



LOSSNAY Technology

Two paths ventilation

LOSSNAY simultaneously intakes Fresh Air and exhausts dirty Air.

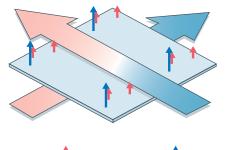
• Total energy recover

LOSSNAY returns BOTH sensible heat and latent heat.

A. Two paths ventilation

EA Stale air exhaust (dirty indoor air) Spacer plate OA Fresh air induction (fresh air) RA Stale air exhaust (fresh heating/cooling air) RA Stale air induction (dirty heating/cooling air)

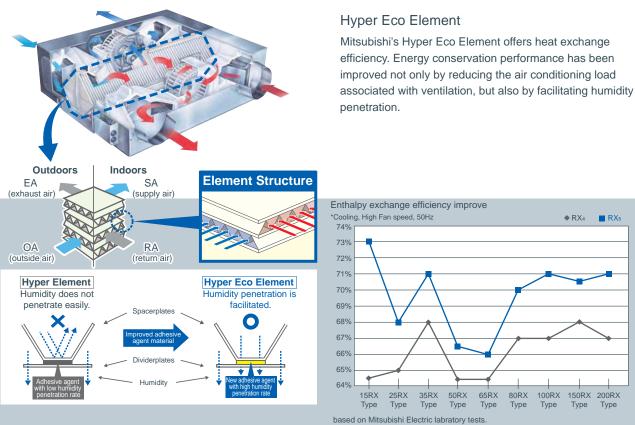
B. Total Energy transfer



Sensible heat

• Hyper Eco Core

Better energy conservation by improved total heat exchange efficiency.



Indoor Unit



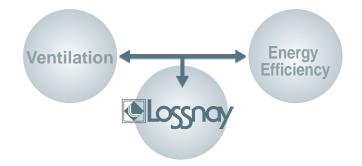
Why LOSSNAY is necessary.

Without ventilation...

Lack of Ventilation creates dirty indoor air including CO2, Dust, Bacteria.

• If just opening windows... Opening windows eliminates dirty air BUT reduces air-conditioning efficiency.

• So we recommend LOSSNAY LOSSNAY is simultaneous pursuit of Ventilation and Energy Efficiency.



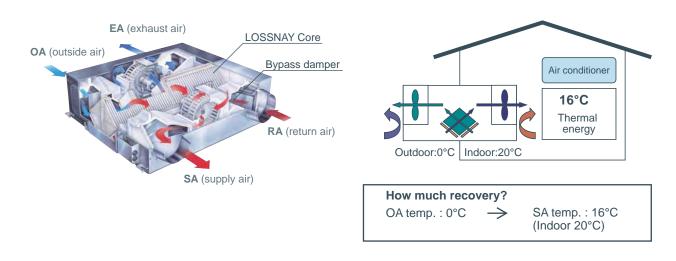
• This is LOSSNAY !

ADVANTAGES

Clean air supply, dirty air exhaust by Two air paths (OA→ SA and RA→ EA) Energy recovery by LOSSNAY Core Free cooling by bypass damper MULTI VENTILATION MODE for multi ventilation request (Power supply, Power supply/exhaust, Power exhaust)

UNIT STRUCTURE

Energy Recovery Image

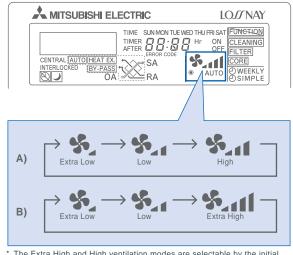


Indoor Unit

Extra Low Mode

Additional energy conservation by using a four-level air volume system that allows more precise control.

In addition to the conventional Extra High, High, and Low modes, an Extra Low mode is added to provide a more dynamic range of air volume settings and versatility in a variety of installation environments, yielding much better energy conservation. Using a simplified timer function, it switches to Extra Low operation when the operation stop button is activated and it is accordingly possible to implement 24-hour energy conservation ventilation.



* The Extra High and High ventilation modes are selectable by the initial setting. Extra-Low not equipped LGH-150RX5 and 200RX5.

* The ventilation mode is actually selected in three levels, and the remote controller also displays these three levels.

Energy Saving by WEEKLY timer

Air volume level can be set hourly (max 8 times) and weekly. You can pre-set air volume according to the predictable requirement so that LOSSNAY can automatically operate at only necessary air-speed at the specified time period, which saves power consumption while maintaining the indoor air quality. Once the weekly timer has been set, switching on-off is not required.

Example A current RX4		n PZ-41SLB c	ontroller				22:00
				high			
new RX₅ se	ies with P	Z-60DR-E					
	8:00 9:	00 12:	00 13:0	00 17:	00	19:00	22:00
	low	high	low	high	low	extra	a low
Tolal power of Example B		Ĺ		RX₄-E : 6,600W (14 hour RX₅-E : 5,390W (14 hour		V (18%) le)SS
Monday to	8:00 9	00 12	00 13:	00 17	:00	19:00	22:00
Thursday	low	high	low	high	low	extra	a low
E-de-	8:00 9	:00 12:	00 13:	00 17	:00		22:00
Friday	low	high	low	high	extr	ra low	
Saturday to Sunday	8:00	•		extra low			22:00

New function: "By-pass" Ventilation External Control Setting

In addition to the automatic damper open/close function, open/close control via external devices is now possible, delivering a "By-pass" ventilation system that is suitable to the installed environment.

Establish the wire connection by inserting the optional remote display adaptor (PAC-SA88HA-E) in the connector CN16 (Ventilation mode selector).

With SW1 is "ON", the ventilation mode of LOSSNAY is changed to the By-pass ventilation regardless of the setting on the remote controller.

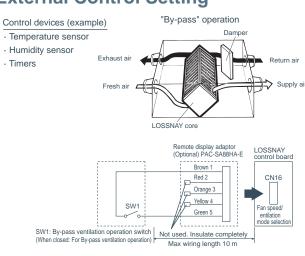
Automatic ventilation setting

The automatic damper mode automatically provides the correct ventilation for the conditions in the room. The following shows the effect "By-pass" ventilation will have under various conditions.

1. Reduces cooling load

If the air outside is cooler than the air inside the building during the cooling season (such as early morning or at night), "By-pass" ventilation will draw in the cooler outside air and reduce the cooling load on the system.

Remote Controller PZ-60DR-E



2. Night purge

"By-pass" ventilation can be used to release hot air from inside the building that has accumulated in buildings a business district during the hot summer season.

3. Office equipment room cooling

During cold season, fresh air can be drawn in and used as is to cool rooms where the temperature has risen due to the use of office equipment.

* When the outdoor air tempereture drops lower than 8°C it changes to the heat exchange ventilation. (Display of the remote controller does not change.)

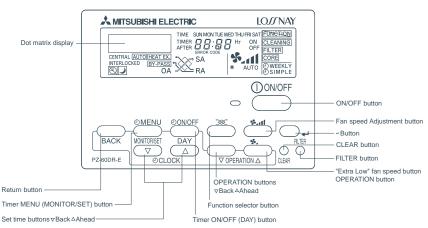
* In the case of "By-pass" ventilation, the supply air temperature slightly rises more than the outside air temperature because of the heat effect around the ducts or the unit motors.

In addition to boosting the energy conservation performance of the main unit, the remote controller features a variety of functions which also pursue additional energy conservation.

The appearance of the remote controller conforms to Mitsubishi air conditioner interface design standards. Functions that were set using Dip-Switch on the LOSSNAY main unit can now be configured as needed using the new remote controller.

This eliminates the need to crawl under the eaves to change operation settings.

Also, a newly adopted dot matrix display provides much more information, making it easy to check maintenance indications, operation status display, and explanations required when configuring settings.





Model line up

LGH-15~100RX5-E

Specification

LGH-15RX5-E

Model			LGH-15RX₅-E						
Frequency / Power source					50Hz / Single p	hase 220-240V			
Ventilation mode		LOSSNAY ventilation By-pass ventilation					entilation		
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low
Current (A)		0.44-0.46	0.37-0.38	0.25-0.25	0.14-0.15	0.45-0.46	0.37-0.38	0.25-0.26	0.14-0.15
Power consumption (W)		96-110	80-90	53-59	30-35	97-110	81-91	54-61	30-35
Air volume	(m³/h)	150	150	110	70	150	150	110	70
	(L/s)	42	42	31	19	42	42	31	19
	(mmH ₂ O)	10.2-10.7	6.6-7.1	3.6-4.1	1.4	10.2-10.7	6.6-7.1	3.6-4.1	1.4
External static pressure	(Pa)	100-105	65-70	35-40	14	100-105	65-70	35-40	14
Temperature exchange efficiency	(%)	82.0	82.0	84.0	85.5	—	—	—	—
Enthalpy exchange efficiency (%)	Heating	75.0	75.0	77.5	81.0	—	—	—	—
Enthalpy exchange enciency (%)	Cooling	73.0	73.0	76.5	81.0	—	—	—	—
Noise (dB) (Measured at 1.5m under of panel in an anechoe		27.5-28	26.5-27	22-23.5	18	28.5-29	27-28	23-24	18-19
Weight (kg)		20							
Starting current Under 0.8 A Less									

*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 6 dB greater than the indicated value. (at High Fan speed)

LGH-25RX₅-E

Model			LGH-25RX₅-E						
Frequency / Power source					50Hz / Single p	hase 220-240V			
Ventilation mode			LOSSNAY	ventilation			By-pass ve	entilation	
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low
Current (A)		0.52-0.55	0.47-0.48	0.26-0.27	0.17-0.18	0.53-0.55	0.47-0.48	0.26-0.27	0.17-0.18
Power consumption (W)		113-129	102-114	56-62	36-42	115-131	103-115	56-63	36-42
Air volume	(m³/h)	250	250	155	105	250	250	155	105
	(L/s)	69	69	43	29	69	69	43	29
External static pressure	(mmH ₂ O)	8.2-8.7	5.1-6.1	2-2.5	0.9	8.2-8.7	5.1-6.1	2-2.5	0.9
External static pressure	(Pa)	80-85	50-60	20-25	9	80-85	50-60	20-25	9
Temperature exchange efficiency (%)	79.0	79.0	81.5	83.5	_	—	—	
Enthalpy exchange efficiency (%)	Heating	69.5	69.5	74.0	77.5	—	—	—	—
Enthalpy exchange enciency (%)	Cooling	68.0	68.0	72.5	76.0	_	—	—	_
Noise (dB) (Measured at 1.5m under of panel in an anechoeid	26-27	25-26	20-21.5	18-19	26.5-27.5	25.5-26.5	20.5-22	18-19	
Weight (kg)			-		2	20			
Starting current Under 0.9 A Less									

*The Air outlets noise (45° angle,1.5 meters in front of the unit) is about 10 dB greater than the indicated value. (at High Fan speed)

LGH-35RX₅-E

Model			LGH-35RX5-E						
Frequency / Power source		50Hz / Single phase 220-240V							
Ventilation mode			LOSSNAY	ventilation			By-pass ve	entilation	
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low
Current (A)		0.92-0.92	0.74-0.74	0.5-0.51	0.28-0.3	0.93-0.94	0.77-0.77	0.51-0.52	0.28-0.3
Power consumption (W)		195-212	160-169	105-116	58-69	197-217	164-173	105-116	58-69
Air volume	(m³/h)	350	350	210	115	350	350	210	115
Air volume	(L/s)	97	97	58	32	97	97	58	32
External static pressure	(mmH ₂ O)	15.8-16.3	7.6-8.2	2.5-3.1	0.9	15.8-16.3	7.6-8.2	2.5-3.1	0.9
External static pressure	(Pa)	155-160	75-80	25-30	9	155-160	75-80	25-30	9
Temperature exchange efficiency (%)	80.0	80.0	85.0	88.0	—	—	—	-
Enthalpy exchange efficiency (%)	Heating	71.5	71.5	76.5	81.5	—	—	—	—
Enthalpy exchange enciency (%)	Cooling	71.0	71.0	75.5	81.0	—	—	—	—
Noise (dB) (Measured at 1.5m under the center of panel in an anechoeic chamber)		32-32	28.5-29.5	21.5-23	18	32.5-32.5	29.5-30.5	21.5-24	18
Weight (kg)		29							
Starting current					Under 2	4 A Less			

*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 10 dB greater than the indicated value. (at High Fan speed)



LGH-15~100RX5-E

LGH-50RX₅-E

Model		LGH-50RX₅-E							
Frequency / Power source		50Hz / Single phase 220-240V							
Ventilation mode		LOSSNAY ventilation By-pass ventilation					entilation		
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low
Current (A)		1.2-1.25	1.0-1.0	0.85-0.85	0.4-0.4	1.25-1.25	1.0-1.0	0.85-0.85	0.4-0.4
Power consumption (W)		255-286	207-228	175-190	80-95	260-290	210-230	180-195	80-95
Air volume	(m³/h)	500	500	390	180	500	500	390	180
	(L/s)	139	139	108	50	139	139	108	50
Fotomel static mass sure	(mmH ₂ O)	15.3-15.8	6.6-9.2	4.1-6.1	1.0	15.3-15.8	6.6-9.2	4.1-6.1	1.0
External static pressure	(Pa)	150-155	65-90	40-60	10	150-155	65-90	40-60	10
Temperature exchange efficiency (%)	78.0	78.0	81.0	86.0	—	—	—	—
	Heating	69.0	69.0	71.0	78.0	—	_	_	_
Enthalpy exchange efficiency (%)	Cooling	66.5	66.5	68.0	77.0	—	_	_	_
Noise (dB) (Measured at 1.5m under of panel in an anechoeid		33-34	30.5-32	26.5-28	19	34-35	31-32.5	27-29	19
Weight (kg)			-		3	32			
Starting current Under 3.0 A Less									

*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 16 dB greater than the indicated value. (at High Fan speed)

LGH-65RX5-E

Model			LGH-65RX₅-E						
Frequency / Power source					50Hz / Single p	hase 220-240V			
Ventilation mode			LOSSNAY	ventilation			By-pass ve	entilation	
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low
Current (A)		1.7-1.8	1.5-1.5	1.2-1.2	0.6-0.6	1.7-1.8	1.5-1.5	1.2-1.2	0.6-0.6
Power consumption (W)		350-380	308-322	248-265	120-140	350-385	310-335	250-265	120-140
	(m³/h)	650	650	520	265	650	650	520	265
Air volume	(L/s)	181	181	144	74	181	181	144	74
External static pressure	(mmH ₂ O)	11.2-12.2	6.1-8.2	4.1-5.1	0.8	11.2-12.2	6.1-8.2	4.1-5.1	0.8
External static pressure	(Pa)	110-120	60-80	40-50	8	110-120	60-80	40-50	8
Temperature exchange efficiency (%)	77.0	77.0	80.0	86.0	—	—	—	—
Enthalpy exchange efficiency (%)	Heating	68.5	68.5	70.5	78.0	—	_	—	-
Enthalpy exchange enciency (%)	Cooling	66.0	66.0	68.5	77.0	—	—	—	—
Noise (dB) (Measured at 1.5m under of panel in an anechoeid		34-34.5	32-33	28.5-31.5	22	34.5-35	32.5-33.5	28.5-30.5	22-22.5
Weight (kg)					4	0			
Starting current					Under 4.4 A Less				

*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 10 dB greater than the indicated value. (at High Fan speed)

LGH-80RX5-E

Model					LGH-8	0RX₅-E					
Frequency / Power source		50Hz / Single phase 220-240V									
Ventilation mode			LOSSNAY	ventilation			By-pass ve	entilation			
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low		
Current (A)		1.75-1.75	1.6-1.6	1.45-1.45	0.60-0.65	1.75-1.75	1.6-1.6	1.45-1.45	0.60-0.65		
Power consumption (W)		380-415	345-370	315-340	125-145	380-415	345-370	315-340	120-145		
A	(m³/h)	800	800	700	355	800	800	700	355		
Air volume	(L/s)	222	222	194	99	222	222	194	99		
Future at static management	(mmH ₂ O)	14.8-15.3	10.7-12.2	8.2-9.7	2	14.8-15.3	10.7-12.2	8.2-9.7	2		
External static pressure	(Pa)	145-150	105-120	80-95	20	145-150	105-120	80-95	20		
Temperature exchange efficiency ([%)	79.0	79.0	80.5	87.5	—	—	—	—		
Enthalpy exchange efficiency (%)	Heating	71.0	71.0	72.5	79.5	—	—	—	—		
Enthalpy exchange enciency (%)	Cooling	70.0	70.0	71.5	79.5	—	—	—	—		
Noise (dB) (Measured at 1.5m unde of panel in an anechoei	33.5-34.5	32-33	30-31	22	34.5-35.5	33-34	31-32	22			
Weight (kg)		53									
Starting current					Under 3	.8 A Less					

*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 16 dB greater than the indicated value. (at High Fan speed)







LGH-15~100RX5-E

LGH-150/200RX5-E

LGH-100RX5-E

Model			LGH-100RXs-E								
Frequency / Power source		50Hz / Single phase 220-240V									
Ventilation mode			LOSSNAY	ventilation			By-pass ve	entilation			
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low		
Current (A)		2.3-2.4	2.1-2.1	1.7-1.7	0.9-0.9	2.3-2.4	2.1-2.1	1.7-1.7	0.9-0.9		
Power consumption (W)		500-535	445-475	350-380	175-200	510-550	460-485	365-395	175-200		
A :=	(m³/h)	1000	1000	755	415	1000	1000	755	415		
Air volume	(L/s)	278	278	210	115	278	278	210	115		
	(mmH ₂ O)	16.3-17.3	10.2-11.2	5.6-6.1	1.8	16.3-17.3	10.2-11.2	5.6-6.1	1.8		
External static pressure	(Pa)	160-170	100-110	55-60	18	160-170	100-110	55-60	18		
Temperature exchange efficiency ((%)	80.0	80.0	83.0	87.0	_	—	—	—		
Enthalpy exchange efficiency (%)	Heating	72.5	72.5	74.0	80.0	—	—	—	—		
Enthalpy exchange enciency (%)	Cooling	71.0	71.0	73.0	79.0	_	—	_	—		
Noise (dB) (Measured at 1.5m unde of panel in an anechoei	36-37	34-35	31-32.5	21-22	37-38	35-36	32-33	21-22			
Weight (kg)		59									
Starting current					Under 4	.6 A Less					

*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 17 dB greater than the indicated value. (at High Fan speed)

LGH-150RX₅-E

Model				LGH-1	I50RX₅-E					
Frequency / Power source		50Hz / Single phase 220-240V								
Ventilation mode			LOSSNAY ventilation			By-pass ventilation				
Fan speed		Extra High	High	Low	Extra High	High	Low			
Current (A)		3.5-3.5	3.2-3.2	2.9-2.9	3.5-3.5	3.2-3.2	2.9-2.9			
Power consumption (W)		760-830	690-740	630-680	765-835	695-745	635-685			
6 in	(m³/h)	1500	1500	1300	1500	1500	1300			
Air volume	(L/s)	417	417	361	417	417	361			
External static pressure	(mmH ₂ O)	16.3-17.8	13.3-13.8	9.7-10.2	16.3-17.8	13.3-13.8	9.7-10.2			
External static pressure	(Pa)	160-175	130-135	95-100	160-175	130-135	95-100			
Temperature exchange efficiency (%)	80.0	80.0	81.0	—	—	—			
Enthalpy exchange efficiency (%)	Heating	72.0	72.0	72.5	—	—	-			
Enthalpy exchange enciency (%)	Cooling	70.5	70.5	71.5	—	—	-			
Noise (dB) (Measured at 1.5m unde of panel in an anechoei		38-39	36-37.5	33.5-35	39-40.5	37.5-39	35.5-37			
Weight (kg)		105								
Starting current				Under	7.3 A Less					

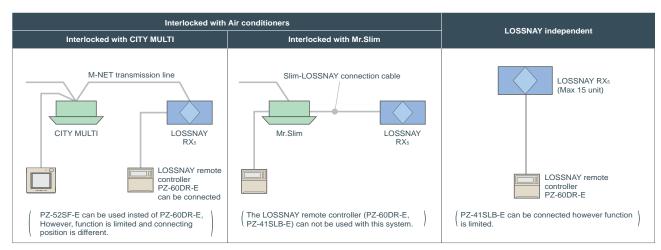
*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 19 dB greater than the indicated value. (at High Fan speed)

LGH-200RX5-E

Model				LGH-2	:00RX5-E					
Frequency / Power source		50Hz / Single phase 220-240V								
Ventilation mode			LOSSNAY ventilation			By-pass ventilation				
Fan speed		Extra High	High	Low	Extra High	High	Low			
Current (A)		4.8-4.8	4.2-4.2	3.4-3.4	4.8-4.8	4.2-4.2	3.4-3.4			
Power consumption (W)		1035-1100	910-980	715-785	1040-1110	915-980	720-785			
Air volume	(m³/h)	2000	2000	1580	2000	2000	1580			
Air volume	(L/s)	556	556	439	556	556	439			
External static pressure	(mmH ₂ O)	16.3-16.8	10.2-10.7	6.1-6.6	16.3-16.8	10.2-10.7	6.1-6.6			
External static pressure	(Pa)	160-165	100-105	60-65	160-165	100-105	60-65			
Temperature exchange efficiency (%)	80.0	80.0	83.0	—	—	—			
Enthalpy exchange efficiency (%)	Heating	72.5	72.5	73.5	—	—	—			
Enthalpy exchange enciency (%)	Cooling	71.0	71.0	72.0	—	—	—			
Noise (dB) (Measured at 1.5m under of panel in an anechoeid	39.5-40	37-38	32.5-34	40.5-41	38-39	33.5-35				
Weight (kg)		118								
Starting current				Under 1	1.9A Less					

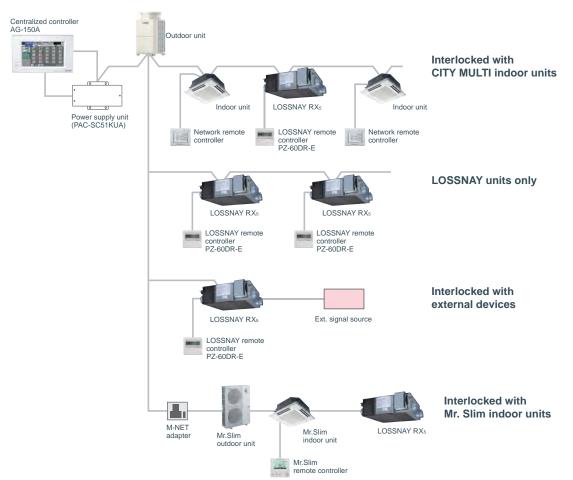
*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 20 dB greater than the indicated value. (at High Fan speed)

Control



The Remote Controller PZ-60DR-E enable simple control setting

Centralized Controller System



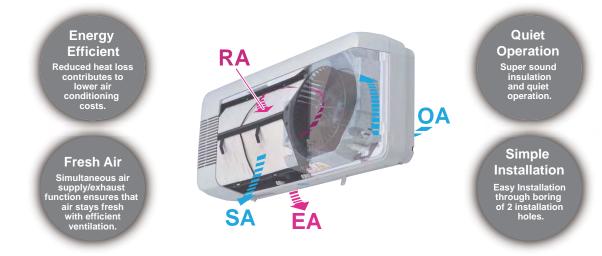
Indoor Unit



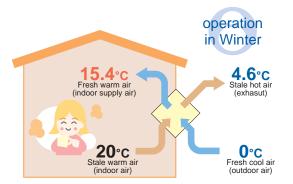


Heat Recovery Ventilators for Residential Use

Time Spent in Comfort with a Breath of Fresh Air



Total-Heat-Exchange Concept



•Heat-exchange calculating equation

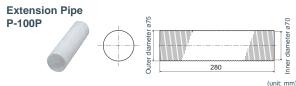
 $\begin{array}{l} \mbox{Indoor supply-air} & \mbox{Outdoor} \\ \mbox{temperature (°C)} & \mbox{temperature (°C)} + \left\{ \begin{array}{l} \mbox{Indoor} \\ \mbox{temperature (°C)} & \mbox{Outdoor} \\ \mbox{temperature (°C)} & \mbox{temperature (°C)} \end{array} \right\} x \ \mbox{temperature (°C)} \\ \mbox{Calculation example : } 15.4^{\circ}\mbox{C} = 0^{\circ}\mbox{C} + (20^{\circ}\mbox{C} - 0^{\circ}\mbox{C}) x 77\% \qquad (Low notch) \\ \end{array}$

Specification

- •Simple installation through boring of 2 installation holes. •Low-noise(Less than 30dB at low notch).
- •1-motor 2-fan system. •Air-volume:low/high 2-notch. •Air-supply/exhaust pipes and plastic weather cover are
- supplied as accessories.

•Equipped with an outdoor-air shutter. •Pull-string switch

Optional parts



•Total length when connected to the pipe extension coupling is 300mm.

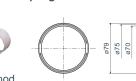
24.2°C Fresh cool air (indoor supply air) 21°C Stale cool air (indoor air) 21°C Stale cool air (indoor air) 55°C Fresh hot air (outdoor air)

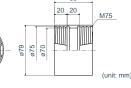
•Heat-exchange calculating equation

Indoor supply-air Outdoor $\left(^{\circ}C\right)^{-1}$ $\left(^{\circ}C\right)^{-$

	Power line frequency (Hz)	Notch	Air volume (m³/h)	Power Consumption (W)	Temp.exchange efficiency (%)	Noise (dB)	Weight (kg)
220-240	50	HI	105	26	70	39	
220-240	50	LO	65	23	77	29.5	0 F
000	00	HI	90	26	73	37	6.5
220 60		LO	50	21	80	26	







Screw-in method

Indoor Unit

OA Processing Units

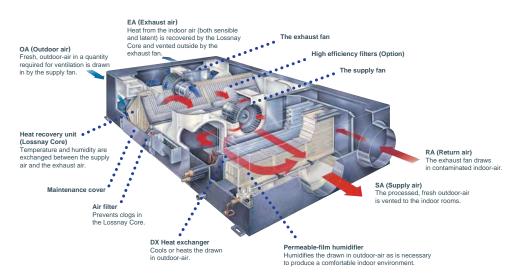
RDH3 Series



Ideal Indoor-Air Quality — For Your Comfort and Health

The OA (outdoor-air) Processing Unit creates an optimum indoor-air environment at an unparalleled rate of cost efficiency. Forced air ventilating and humidifying functions unique to this system keep indoor-air fresh and free of contaminants preventing "sick building syndrome" and the spread of airborne viruses such as the flu. Another feature of the OA Processing Unit is the "Lossnay core," a heat-exchange unit that functions to transfer heat efficiently, cutting ventilation load by as much as 70%. This special combination of functionality

and performance designed to ensure users ample comfort and year-round health which cannot be found anywhere else on the market.



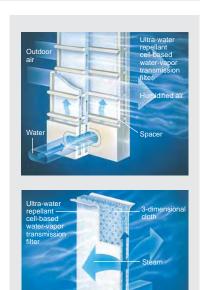
New Permeable Film Humidifier (RDH3 model)

Comfortable Level of Humidity for Exceptionable Air Quality

The OA Processing Unit is equipped with a new permeable film humidifier developed and patented by Mitsubishi Electric. Steam transmission efficiency has been improved remarkably by lowering the resistance of the material. The use of a 3-layer film that allows only the transfer of steam prevents the production of white powder, so there is no need for the use of a water purifier.

Highly Efficient Humidification

Improvements in the system of airflow patterns and water injection techniques have resulted in a substantial increase in humidifying volume.



New filter

RD3 Series

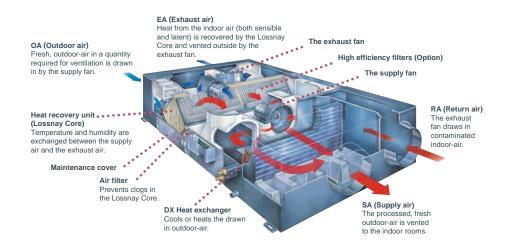
A Total Air Conditioning Package Manifesting Remarkable Power

Lossnay Ventilation and Air Conditioning

1. When the load is light \Rightarrow Main air conditioning

2. When the load is heavy \Rightarrow Supplemental air conditioning

The OA (outdoor-air) Processing Unit creates an optimum environment while providing substantial energy efficiency. The OA Processing Unit comprises forced air ventilation, heat recovery, heating and cooling, and air purification. This total air conditioning system keeps indoor air fresh and comfortable all year round, and keeps it free of contaminants preventing ailments such as sick building syndrome. Inside the OA Processing Unit is the Lossnay Core, a heat-exchange unit that transfers heat efficiently, cutting ventilation load by as much as 70%. A remarkable product found nowhere else, this special combination of functionality and performance contained within a single unit ensures users ample comfort, good health, and energy savings.

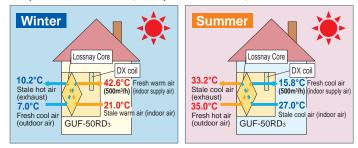


The Air Conditioning Function

Two Units in One

Along with Lossnay ventilation, the OA Processing Unit is really two units in one, functioning as the main air conditioner when the load is light and adding supplemental air conditioning when the load is heavy. Also, with ventilation and air conditioning integrated, space is saved and installation expense kept to a minimum. What's more, the air temperature in any room can be perfectly adjusted to the desired

Temperature simulation (Example : GUF-50RD₃)



temperature of the occupants via the OA Processing Unit, which can be used as the indoor unit of the CITY MULTI air conditioning system. The heat recovery function maximizes efficiency and saves energy, benefiting the environment and helping companies cut costs. It also reduces the refrigerant load and lowers the amount of horsepower required by the outdoor unit.

Specification

Model				GUF-50)RDH3 *3	GUF-10	0RDH3 *3	GUF-	50RD3	GUF-1	100RD3	
Power source						1-phase 2	220-240V 50H	lz, 1-phase :	220V 60Hz			
Cooling capacity		*1	kW	5.46	<1.83>	11.17	<3.85>	5.46	<1.83>	11.17	<3.85>	
Figure in < > is the	he recovery	*1	kcal / h	4,700	<1,600>	9,600	<3,300>	4,700	<1,600>	9,600	<3,300>	
capacity by LOSS	SNAY core.	*1	BTU / h	18,600	<6,200>	38,100	<13,100>	18,600	<6,200>	38,100	<13,100>	
	Power input		kW	235-265		480	-505	235	-265	480-505		
	Current input		A	1.15		2.	.20	1.	15	2.20		
Heating capacity		*2	kW	6.18	<2.01>	12.50 <4.20>		6.18	<2.01>	12.50	<4.20>	
Figure in < > is the second se	he recovery	*2	kcal / h	5,300	<1,700>	10,800	<3,600>	5,300	<1,700>	10,800	<3,600>	
capacity by LOSS	SNAY core.	*2	BTU / h	21,100	<6,900>	42,700	<14,300>	21,100	<6,900>	42,700	<14,300>	
	Power input		kW	235	-265	480	-505	235	-265	480	-505	
	Current input		А	1.	15	2.	.20	1.	15	2.	.20	
Capacity equivale	ent to indoor unit	t		P	32	P	63	Р	32	P	63	
Humidifying capa	city		kg / h	2	.7	5	5.4		-		-	
			lbs / h	6	.0	1:	2.0		-		-	
Humidifier					Permeable fi	Im humidifie	r			-		
External finish					Galvanized, with grey insulation sheet							
External dimension H x W x D mm			mm	317 x 1,0	16 x 1,288	398 x 1,231 x 1,580		317 x 1,016 x 1,288		398 x 1,231 x 1,580		
in.			12-1/2 x 4	10 x 50-3/4	15-11/16 x 4	8-1/2 x 62-1/4	12-1/2 x 4	10 x 50-3/4	15-11/16 x 4	8-1/2 x 62-1/4		
Net weight kg (lbs)			57 (126)	98 ((217)	54 (120)	92 ((203)		
Heat	LOSSNAY core	Э			Partit	ion, Cross-fl	ow structure,	Special pres	served paper-	plate.		
exchanger	Refrigerant coi	I				Cross f	in (Aluminum	fin and copp	per tube)			
FAN	Type x Quantit	у		SA: Centrifugal fan (Sirocco fan) x 1								
				EA: Centrifugal fan (Sirocco fan) x 1								
	External		Ра	1:	25	1	35	1	40	1	40	
	static press.		mmH₂O	12	2.7	1:	13.8		4.3	14.3		
	Motor type			То	tally enclose	d capacitor p	permanent sp	lit-phase ind	uction motor,	4 poles, 2u	nits	
	Motor output		kW		-		-		-		-	
	Driving mechai	nism					Direct-drive	en by motor				
	Airflow rate		m³ / h	50	00	1,0	000	5	00	1,	000	
	(High value)		L/s	1:	39	1	39	1	39	1	39	
			cfm	2	94	5	89	2	94	5	89	
Sound pressure I	evel (Low-High)		dB <a>	33.5	-34.5	38	3-39	33.5	-34.5	38	3-39	
(measured in an	echoic room)			00.0	04.0		, 00	00.0	04.0		,00	
Insulation materia	al						Polyeste	er sheet				
Air filter	Supplying air		Non-woven fabrics filter (Gravitational method 82%) & Optional part: High efficiency filter (Colorimetric method 65%)									
	Exhausting air			Non-woven fabrics filter (Gravitational method 82%)								
Protection device								se				
Refrigerant control	ol device			LEV								
Diameter of	Liquid		mm (in.)		1/4) Flare		3/8) Flare	ø6.35 (ø1/4) Flare		ø9.52 (ø3/8) Flare		
refrigerant pipe	Gas		mm (in.)	ø12.7 (ø	1/2) Flare	ø15.88 (ø	ø5/8) Flare		1/2) Flare	ø15.88 (ø	ø5/8) Flare	
Diameter of drain	pipe	mm (in.)				VP	25					

Notes:

*1 Cooling : Indoor 27°CDB/19°CWB, Outdoor 35°CDB/24°CWB

*2 Heating : Indoor 20°CDB/13.8°CWB, Outdoor 7°CDB/16°CWB

*3 Available for limited countries. Please contact your local distributor for further information.





Remote Controller

- Individual Remote Controller

- Centralized Remote Controller

The Importance of Control

The need for control is paramount in order to optimise the performance of any air conditioning system and minimise its running costs. Mitsubishi Electric offers a wide range of control options designed to meet such needs.

Operating an air conditioning system without the right control can prove costly. It's therefore important to ensure that every system is correctly specified to the degree of control it requires. Mitsubishi Electric have a wide range of controls available and individual control systems can be specifically designed to match.

Good controls will benefit any application, large or small. Air conditioning products need to react to a variety of factors: different room sizes, usage and staff levels; changes in the climate; electronic equipment and lighting ...the list goes on. So whatever the application, optimum control of air conditioning systems is essential and will result in a constant, comfortable environment, which in turn is both energy and cost efficient.

A Degree of Difference

When an air conditioning system is not properly controlled, it will not run as efficiently as it should. For every degree that the system deviates from the required temperature, energy consumption can rise by up to 5%. Specify one of the many control options from Mitsubishi Electric to ensure air conditioning works as intended, whilst giving the optimum amount of control.

The Simpler, The Better

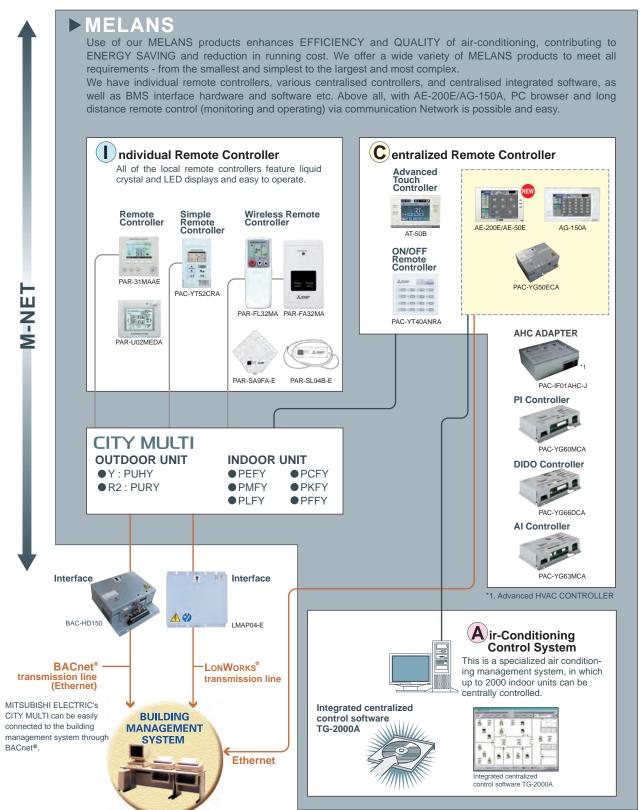
With the array of comprehensive control systems available from Mitsubishi Electric, it becomes simple to design and install air conditioning systems. From a simple hand-held controller to a AE-200E system - you are in control.





System Controller

MITSUBISHI ELECTRIC's Air-conditioner Network System (MELANS) leads air conditioner management to a PC browser and Network era.



*Some controllers cannot be used in combination with certain models of devices

Integrated Communications Control with Mitsubishi Electric's Unique Transmission Network (M-NET)

		ocal remo	te controll	er *10						Syste	m coi	ntrolle			*10
Model		PAR-U02MEDA	PAC-YT52CRA	PAR-FL32MA	PAC- YT40ANRA	AT-50B	AE / A	-200E E-50E	AE-2	:00E + -50E		150A	AG-1	150A + G50ECA	TG-2000A *5
Controllable Groups / Indoors (Group / Indoor) *9	1 / 16	1 / 16	1 / 16	1 / 16	16 / 50	50 / 50	50	/ 50 Browser*	_	/ 200 Browser*4		/ 50 Browser*4		/ 150 Browser*4	2000 / 2000
■Operating															
ON / OFF Mode (cool / heat / dry / fan)	0	0	0	0	N N	0									
Temperature-set	0		0	0	N	0				-			-	_	
Dual set point *11	0	0	0	N	O*12	0	0				N	N	N	N	
Local Permit / Prohibit	N	N	N	N	N	0	0			-					
Fan speed	0	0	0	0	N	0	0	-	-	0					
Air-flow direction	0	0	0	0	N	0	\odot								
Status monitoring															
ON / OFF	0	0	0	0	O	O	O	0	O	0	O	0	O	0	0
Mode (cool / heat / dry / fan)	0	0	0	0	N	0	0	0	0	0	0	0	0	0	0
Temperature-set	0	0	0	0	N	0	0	0	0	0	0	0	0	0	0
Local Permit / Prohibit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fan speed	0	0	0	0	N N	0	0	0	0	0	0	0	0	0	0
Air-flow direction Indoor temperature	0	0	0	O N	N	0	0	0	0	0	0	0	0	0	0
Filter sign	0	0	N	N	N	0	0	0	0	0	0	0	0	0	0
Error flashing	0		0	0	0	0	6	0	6	0	0	0	0	0	0
Error code	0	0	0	N	0	0	ŏ	10	Ō	Ō	Õ	Õ	Õ	ŏ	0
Operation hour	Ň	N	N	N	N	N	N	N	N	N	N	N	N	N	•
Scheduling															
One-day	0	0	N	N	N	0					•	•		•	•
Times of ON / OFF per day	1	1	N	1	N	16	24	24	24	24	24	24	24	24	24
Weekly	0	0	N	N	N	0					$O(\bullet)$		$O(\bullet)$		
Times of ON / OFF per week	8 x 7	8 x 7	N	N	N	16 x 7				24 x 7					
Annual Optimized start-up	N N	N N	N N	N N	N N	N N				-	•				
Auto-off timer			N	N	N	N	O N	O N	O N	O N	N	N	N	N	N
Min. timer setting unit (minute)	5	5	N	10	N	5	1	1	1	1	1	1	1	1	1
Recording				10			· ·	<u> </u>	<u> </u>		· ·			<u> </u>	
Error record		N	N	N	N	0	0	0	0	0	0	0	0	0	
Daily / monthly report	N	N	N	N	N	N	N	N	N	N	Ν	N	N	N	O
Electricity charge	N	N	N	N	N	N	N	Ν	Ν	Ν	Ν	N	N	N	
Energy management data	N	N	N	N	N	N	N		N		N	N	N	N	N
■Other															1
Temp-set limitation by Local R / C	0	0	0	N	N	N	N	N	N	N	N	N	N	N	N
Temp-set limitation by System controller *4 Operation-lock	0 *6 0	0	O *6 O	N N	N N	○*6 ◎	N N	O*2*6	N N	O*2*6 N	N N	O*2*6	N N	O*2*6	© *6 N
Night setback	0		 N	N	N	0		N 0*2		0*2		N 0*2		N 0*2	
Sliding temperature control	N	N	N	N	N	N	6	0*2		0 ^{*2}	0	0*2	0	0*2	0
Management (Group / In															
Ventilation interlock	N/O	N/O	N/O	N		0	0	0/C	0	0/0	0	0/0	0	0/0	0/0
Group setting	O *1	0	O *1	N	0	0	0	O*2	0	O*2	0	O*2	0	O*2	
Block setting	N	N	Ν	N	N	N	0	O*2		O*2	0	O*2		O*2	
Revision of electricity charge		N	N	N	N	N	Ν	N	Ν	Ν	Ν	N	N	N	
Operating on LOSSNAY		· ·	· · · · ·	1 11 1010	0.00		10.0		lair		0.0	0.0	0.0		
ON / OFF	N/O	N/O	N/O	N/O*8	©/© ^{*3}	0/0	0/0			0/0	0/0	0/0	0/0		0/0
Fan speed Ventilation mode	N /O N / N	N/O	N N	N N	N N					0/0 0/N					
Status monitoring on LO		N N			IN										0/N
U	N/O	. ``		. ′	N	0/0	0/0	00/0		0/0	0/0	0/0	0/0	00/0	0/0
Fan speed	N/O	N/O	N	N	N					0/0					
Ventilation mode	N	N	N	N	N	O/N	O/N			0/N	O/N	O/N	O/N		0/N
b): License registration for the op Group setting via wiring between stallation possible at Initial setti inter-lock is set at Local remote c E-2002/AE-50E/AG-150A/EB-5 G-150A connected with PAC-YC ompatible with TG-2000A Ver. 6. his function can be set only on t But, the validity of this function w his function is available only who	Indoor units w ng web browse ontroller. 0GU-J/GB-50/ 550ECA is com 40A or later. AB he ME remote vith the MA/Sin en applying too	as required ith cross-over er; ADA-J license npatible with 1 E-200E/AE-50 controller. Th nple MA remo gether with TC	N : Not Ava registration t G-2000A Ver E is compatil is function ca controller o S-2000A, AE-	o AE-200E// r.6.10* or lat ble with TG- nnot be use depends on 200E/AE-50	AE-50E/AG er. GB-50A 2000A Ver. d with the l the indoor DE/AG-150/	∴: Batche G-150A/EE ADA-J is c . 6.50* or MA/Simpl unit mode	3-50GL ompati later. e MA r	J-J/GB- ble with emote c there ar	50ADA TG-20	ed hand -J is req 000A Ver er. ibilities t	ling (fo uired t r. 6.30*	r maint o monit or late	or and r. EB-5	e) ∎ operate 0GU-J i	is
nter-lock is set from system cont The maximum number of controll For indoor use only. This function is supported only will For the availability of the function	able units decr nen all the indo	eases depen oor units, rem	ding on the in ote controller: istributor.	idoor unit mi s, and syste	odel.	ers that ar	e conn			n group					united output of
LOSSNAY remote controller	PZ-52SF		Manag Group	settina				0			-	AII CC		nier co	ontrol system i

Ν

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0

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N

C

2. For the availability of the function, please contact j		istibutor.
LOSSNAY remote controller PZ-52SF		■Management Group setting
Controllable LOSSNAY Groups	1	Block setting
Controllable LOSSNAY unit	16	Status monitoring
Operating		ON/OFF
ON/OFF	0	Mode
Mode		(automatic ventilation/vent-heat interchange/normal ventilation)
(automatic ventilation/vent-heat interchange/normal ventilation)	0	Local Permit-Prohibit
Local Permit-Prohibit	N	Fan speed
Fan speed	0	Air flow direction
Air flow direction	N	Filter sign
Scheduling	N	Error flashing
Recording	N	Error code
Remote Controller		

Air conditioner control system interface LMAP04-E: LONWORKS® Interface Controls up to 50 Groups/ 50 units, for details, refer to its description. BAC-HD150: BACnet® Interface Controls up to 50 Groups/ 50 units. up to 150 Groups/ 150 units with three expansion controllers for details, refer to its description.

O : Each group, N: Not Available

Individual Remote Controller

Wired MA remote controller PAR-31MAAE

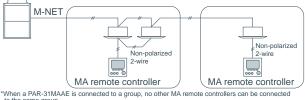
Dual

Point

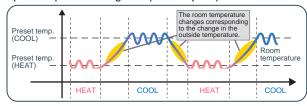


Dimensions: 120(W) x 120(H) x 19(D) mm : 4-3/4(W) x 4-3/4(H) x 3/4(D) in.





Operation pattern during Auto (dual set point) mode



• Temperature will be displayed either in Centigrade in 0.5or 1-degree increments, or in Fahrenheit, depending on the indoor unit model and the display mode setting on the remote controller.

Dual set point

When the operation mode is set to the Auto (dual set point) mode, two preset temperatures (one each for cooling and heating) can be set. Depending on the room temperature, indoor unit will automatically operate in either the Cool or Heat mode and keep the room temperature within the preset range.

*Please contact your Mitsubishi Electric sales office for details.

Backlit LCD (Liquid Crystal Display)

Large, easy-to-see display

Full-dot LCD display with large characters for easy viewing Contrast also adjustable

Night Setback

To prevent indoor dew or excessive temperature rise, this control starts heating operation when the control object group is stopped and the room temperature drops below the preset lower limit temperature. Also, this control starts cooling operation when the control object group is stopped and the room temperature rises above the preset upper limit temperature.

Language selection

Language to be displayed on the screen can be selected from eight languages: English, French, German, Spanish, Italian, Portuguese, Swedish, and Russian.

Functions

	⊖: Each group	X:Not ava	ilable
Item	Description	Operations	Display
ON/OFF	Switches between ON and OFF.	0	0
Operation mode switching	Switches among Cool/Dry/Fan/Auto/Heat.	0	0
Room temp. setting	The temperature can be set within the following range. Cool/Dry : 19°C - 30°C / 67°F - 87°F Heat : 17°C - 28°C / 63°F - 83°F Auto : 19°C - 28°C / 67°F - 83°F * Set temperature range varies depending on the model.	0	0
Air flow direction setting	Changes airflow direction. * Available airflow directions vary depending on the model.	0	0
Louver setting	Switches between louver ON/OFF.	0	0
Ventilation equipment control	Interlocked setting and interlocked operation setting with the CITY MULTI LOSSNAY units can be made. The Stop/Low/High settings of the ventilation equipment can be controlled.	0	0
Error information	When an error occurs, an error code and the unit address appear. Air conditioning unit model, serial number, and contact number can be set to appear when an error occurs. (The information above needs to be entered in advance.) * An error code may not appear depending on the error.	_	0
Timer	ON/OFF timer Turns ON and OFF daily at a set time. • Time can be set in 5-minute increments. • It is also possible to set the ON time only or the OFF time only. Auto-OFF timer Turns off the unit after a certain period of operation. • Operation time can be set to a value from 30 to 240 minutes in 10-minute increments.	0	0
Allows/disallows local operation	The following operation can be prohibited by making certain settings on the centralized controller: ON/OFF, operation mode setting, temperature setting, fan speed, air direction, and filter sign reset. * While an operation is prohibited, the operation icon lights up (only on the Main display in the "Full" mode).	x	0
Operation lock	The following operation can be prohibited respectively: ON/OFF, operation mode setting, temperature setting, and airflow direction setting.	0	0
Temperature range restriction	The room temperature range for each operation mode can be restricted.	0	0
Auto return	The units operate at the preset temperature after a designated period. (Time can be set to a value from 30 to 120 in 10-minute increments.) * Not valid when the temperature setting range is restricted.	0	x

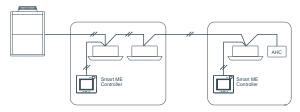
.

Smart ME Controller PAR-U02MEDA



Dimensions : 140(W) x 120(H) x 25(D) mm : 5-9/16(W) x 4-3/4(H) x 1(D) in.

Example of system configuration



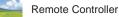
- Smart ME Controller is a remote controller designed to control Mitsubishi Electric's air conditioning units and also allows for the control of other manufacturer's products connected via Mitsubishi Electric's AHC (Advanced HVAC CONTROLLER).
- It can control up to sixteen indoor units and one AHC.
- Smart ME Controller features such basic functions as operations and monitoring of air conditioning units and schedule-control functions and is equipped with four built-in sensors (temperature, humidity, occupancy, brightness), which enable an integrated control of the system, including the humidifiers and ventilation units connected to the system via AHC, to help create a comfortable environment.

When the built-in occupancy sensor detects vacancy in a specific zone, the controller uses its internal function to reduce energy-consumption.

 \bigcirc :Each group \checkmark :Not available

Functions

	U:Each gro	Jup X.NC	t avallable
Item	Description	Operations	Display
ON/OFF	Switches between ON and OFF.	0	0
Operation mode switching	Switches between Cool / Drying / Fan / Heat / Auto. Operation modes vary depending on the indoor unit model. Auto mode is for CITY MULTI R2, and WR2 series only.	0	0
Temperature setting	The temperature can be set within the following range. Cool / Drying : 19°C - 35°C / 67°F - 95°F Heat : 4.5°C - 28°C / 40°F - 83°F Auto : (single set point) : 19°C - 28°C / 67°F - 83°F Auto : (dual set point) : 19°C - 28°C / 67°F - 83°F Auto : (dual set point) : 19°C - 28°C / 67°F - 83°F (Cool) Same as the set temp. range for Cool mode. [Heat] Same as the set temp. range for Heat mode. * The settable temperature ranges vary depending on the indoor unit model.	0	0
Fan speed setting	Changes fan speed. * Available fan speeds vary depending on the model.	0	0
Air flow direction setting	Changes airflow direction. * Available airflow directions vary depending on the model.	0	0
Allows/disallows local operation	The following operation can be prohibited by making certain settings on the centralized controller: ON/OFF, operation mode setting, temperature setting, fan speed, air direction, and filter sign reset. * While an operation is prohibited, the operation icon lights up.	×	0
Error information	When an error occurs, an error code and the unit address appear. Contact number can be set to appear when an error occurs. (The information above needs to be entered on the Service menu.)	-	0
Schedule (Weekly timer)	Weekly ON/OFF times, operation mode, and set temperatures can be set. • Time can be set in 5-minute increments. Up to 8 schedule patterns can be set per day of the week. * Not valid when the ON/OFF timer is set.	0	0
Timer	ON/OFF timer Turns ON and OFF daily at a set time. • Time can be set in 5-minute increments. • It is also possible to set the ON time only or the OFF time only. Auto-OFF timer Turns off the unit after a certain period of operation. • Operation time can be set to a value from 30 to 240 in 10-minute increments.	0	0
Energy-save control during vacancy	When vacancy is detected by the occupancy sensor, the energy-save control assist function is activated. Four control types are available for selection: ON/OFF/Set temperature/Fan speed/Thermo-off. The brightness sensor can be used in conjunction with the occupancy sensor to detect the occupancy/vacancy status more accurately.	0	0



Individual **Remote Controller**

Simple remote controller PAC-YT52CRA (MA)

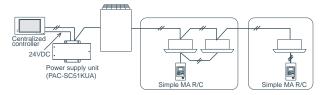
Dual

Point



Dimensions: 70(W) x 120(H) x 14.5(D) mm : 2-3/4(W) x 4-23/32(H) x 9/16(D) in.

Example of system configuration



Dual set point

When the operation mode is set to the Auto (dual set point) mode, two preset temperatures (one each for cooling and heating) can be set. Depending on the room temperature, the indoor unit will automatically operate in either the Cool or Heat mode and keep the room temperature within the preset range.

*Please contact your Mitsubishi Electric sales office for details.

• Backlit LCD (Liquid Crystal Display) Backlight for operation in dark place

Flat back

Install without hole on wall Slim and flat type Thickness is less than 14.5mm [0.6(in)]

Vane button (standard)

The Vane button has been added to allow the user to change airflow direction (ceiling-cassette and wall-mounted types).

Pressing the $\boxed{5}$ button will switch the vane directions.



*The settable vane direction varies depending on the indoor unit model to be connected.

- * If the unit has no vane function, the vane direction cannot be set. In this case, the vane icon blinks when the $\ensuremath{\overline{s_u}}\ensuremath{\underline{\square}}$ button is pressed.
- The only wiring required is cross-over wiring based on two-wire signal lines.
- Room temperature sensors are built-in.
- · Can operate all types of indoor units *Since this controller has limited functions, it should always be used in conjunction with standard controller or centralized controller.
- LCD temperature setting and display in 1°C /1°F increments.

Functions

	□ : Each unit ○ : Each group	X : Not ava	ilable
Item	Description	Operations	Display
ON/OFF	Changes between ON and OFF.	0	0
Operation mode switching	Select from COOL, DRYING, FAN, AUTO, and HEAT. * AUTO mode is settable only when those functions are available on the indoor unit.	0	0
Temperature setting	The temperature can be set within the following range. Cool/Drying : 19°C - 35°C/67°F - 95°F Heat : 4.5°C - 28°C/40°F - 83°F Auto (single set point) : 19°C - 28°C/70°F - 83°F Auto (dual set points) [Cool] Same as the set temp. range for Cool mode. [Heat] Same as the set temp. range for Heat mode. * Set temperature range varies depending on the model.	0	0
Fan speed setting	Changes the fan speed. * The settable fan speed varies depending on the indoor unit model to be connected.	0	0
Permit / Prohibit local operation	By setting a centralized controller, the following local operations are prohibited: ON/OFF; operation mode; preset temperature; * The CENTRAL icon appears while the local operations are prohibited.	x	0
Error	Displays the current error status with the address. * The address may not be displayed depending on the error status.	х	
Ventilation equipment	When the CITY MULTI indoor unit is connected, interlocked setting of the CITY MULTI LOSSNAY unit is possible. When the Mr. SLIM indoor unit (A-control) is connected, interlocked operation of the microcomputer-type LOSSNAY unit is possible.	0	0
Set temperature range limit	The preset temperature range can be restricted for each operation mode (COOL/HEAT/AUTO).	0	0

Wireless remote controller PAR-FL32MA / PAR-FA32MA / PAR-SA9FA



PAR-FL32MA Dimensions: 58(W) x 159(H) x 19(D) mm : 2-5/16(W) x 6-5/16(H) x 3/4(D) in.





PAR-FA32MA Dimensions: 70(W) x 120(H) x 22.5(D) mm





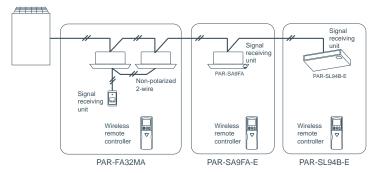
 $\label{eq:par-slg4B-E} \begin{array}{c} \mbox{PAR-SL94B-E} \\ \mbox{(Wireless remote controller kit for ceiling suspended)} \\ \mbox{Dimensions: 182(W) x 57(H) x 31(D) mm} \end{array}$

- No need to configure addresses for group operation.
- Lit LED keeps you informed of operation blinking even gives you the error code via the number of blinks.
- Can be used with the MA remote controller.

*When used in group configurations, wiring between indoor units is required. *Combining ME remote controller and/or LOSSNAY remote controller in a group is not possible.

• LCD temperature setting and display in 1°C /1°F increments.

Example of system configuration



Correspondence table

		receiver	transmitter	
PMFY-	P VBM			
PLFY-F	P VCM/VLMD			
PFFY-F	P VKM			
PEFY-I	P VMR-E-L/R/VMH	PAR-FA32MA		
PFFY-F	P VLEM/VKM/VLRM/VLRMM	FAIN-I AGZIVIA	PAR-FI 32MA	
PEFY-I	P VMS1(L)			
PEFY-	VMA(L)			
PCEY-	P VKM	PAR-FA32MA		
		PAR-SL94B-E		
PLFY-F	P VBM-E	PAR-SA9FA-E		
PKFY-I	P VBM-E	Built-in		
PKFY-I	P VHM/VKM	Built-IN		

O . Each many Adv National abla

Functions

	U: Each group	X: Not ava	liable
Item	Description	Operations	Display
ON/OFF	ON and OFF operation for a single group	0	0
Temperature setting	Sets the temperature for a single group Range of temperature setting Cool/Dry: 19°C - 30°C (14°C - 30°C) / 67°F - 87°F (57°F - 87°F) Heat : 17°C - 28°C (17°C - 28°C) / 63°F - 83°F (63°F - 83°F) Auto : 19°C - 28°C (17°C - 28°C) / 67°F - 83°F (63°F - 83°F) () For PEFY/PFFY by setting DipSW 7-1 to ON and limits to NI6H fan speed only. * Set to PAR-FL32MA according to its Installation Manual 4 "Model setting".	0	0
Air flow direction setting	Air flow direction angles (4-angle, Swing) Auto Louver ON/OFF. Air flow direction settings vary depending on the model.	*	*
Timer operation	One ON/OFF setting can be set for one day.	0	0
Permit / Prohibit local operation	Individually prohibit operation of each local remote control function (ON/OFF, Change operation mode, Set temperature, Reset filter). *1 If operation is performed when the local remote controller inactivation command is received from the main system controller, a buzzer will ring and an LED will flash.	x	0*1
Ventilation equipment	Up to 16 indoor units can be connected to an interlocked system that has one LOSSNAY. The LOSSNAY will run in interlock with the operation of indoor unit. *2 The fan rate and mode cannot be changed.	X *2	х
Some models will have different display for the air flowdirection and fan speed. Set the air flow direction and fan speed when performing initial setting.			

Centralized **Remote Controller**

With our new Advanced Touch Controller AT-50B, easy and simple operation on the touch panel offers an optimal air environment for individual unit.

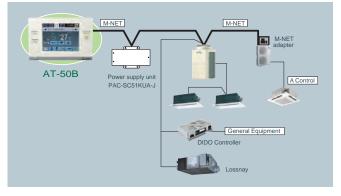
Dual

Advanced Touch controller AT-50B



Dimensions: 180(W) x 120(H) x 30(D) mm : 7-2/16(W) x 4-12/16(H) x 1-3/16(D) in.

System structure

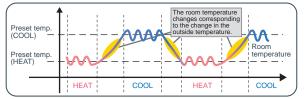


- Temperature will be displayed either in Centigrade in 0.5or 1-degree increments, or in Fahrenheit, depending on the indoor unit model and the display mode setting on the remote controller.
- Dual set point

When the operation mode is set to the Auto (dual set point) mode, two preset temperatures (one each for cooling and heating) can be set. Depending on the room temperature, indoor unit will automatically operate in either the Cool or Heat mode and keep the room temperature within the preset range.

*Please contact your Mitsubishi Electric sales office for details.

Operation pattern during Auto (dual set point) mode



Design

Backlit LCD (Liquid Crystal Display) Touch Panel

5-inch color LCD touch panel enables easy and simple operation. The backlight lights up when the panel is touched, and lights off after certain period of time. The touch panel displays the operation status of the units in GRID, LIST or in GROUP.









GRID (zoom-in) screen Displays the detailed operation status of each group.



GROUP screen Displays the detailed operation status of each group. Sets group operations.

Functions

Three in One

The following three features are integrated into AT-50B.

- Control up to 50 indoor units from one location
- A weekly programmable timer, being able to control up to 50 indoor units
- Control up to 50 units/50 groups of air conditioners

Weekly and daily schedule

5 patterns of one day and 12 patterns of weekly schedule (16 settings max. per pattern). Two types of weekly schedule can be set.

System changeover

Operation mode can be switched depending on indoor temperature setting and target temperature of each group or a representative indoor unit.

Functions

[Basic Functions]

- ON/OFF Operation mode switching
- Temperature setting Fan speed setting
- Airflow direction setting
 Louver setting

Advanced Functions

Night setback function

This function allows having a two-temperature setting to keep the desired room temperature when the units are not in operation and during the time this function is effective. The unit automatically starts heating (cooling) operation when the temperature drops below (rises above) the preset lower (upper) limit temperature. This is not only for comfort environment, but also for saving energy.

Main system controller/Sub system controller

AT-50B can be set to Sub System controller. When connecting multiple system controllers, designate the system controller with many functions as the "Main", and set the system controllers with few functions as the "Sub".

Simple button arrangement

The F1 (Function 1) and the F2 (Function 2) button can be set as a run button of the following collective operation. (Setback/Schedule/Operation Mode/Temperature Correction/Remote Controller Prohibition)

	□: Each unit ○: Each group ◎: Group or collective	X: Not ava	ilable
Item	Description	Operations	Display
Permit / Prohibit	The ON/OFF, operation mode, setting temperature, fan speed, air direction, filter sign reset operations, and timer using the local remote controllers can be prohibited. Only ON/OFF and filter reset can be prohibited for the LOSSNAY group. *The settable items vary depending on the models.	0	0
Operation lock	The operation lock can be set to the input operation of AT-50B. Each button can be set. (Function Button 1, Function Button 2, Collective ON/OFF, Touch Panel) Each function can be set. (Operation mode, Setting temperature, Fan speed, Menu button) The password for the lock release can be set.	0	0
Error display	When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed. * When an error occurs, the "ON/OFF" LED flashes. The operation monitor screen show abnormal icon over the unit. The error monitor screen shows the abnormal unit address and error code. The error log monitor screen shows the time and date, the abnormal unit address, error code and source of detection.	х	
Ventilation (independent)	Switches the mode "Bypass/Heat recovery/Auto" for LOSSNAY groups.	0	0
Ventilation (interlocked)	The LOSSNAY will run in interlock with the operation of indoor unit. The mode cannot be changed. The LED will turn ON during operation after interlocking.	0	0
Temperature-set limitation	Batch-setting to temperature range limit at cooling, heating, and auto mode. This function cannot be used with the MA remote controller. (Depends on the indoor unit model.)	0	0
Specific mode operation prohibit (Cooling prohibit, heating prohibit, cooling/ heating prohibit)	When set as the main controller, operation of the following modes with the local remote controllers can be prohibited. When cooling is prohibited: Cooling, dry, automatic can not be chosen. When heating is prohibited: Heating, automatic can not be chosen. When cooling/heating is prohibited: Cooling, dry, heating, automatic can not be chosen.	O	0
External input (Emergency stop input, etc.)	The following input with level signals or pulse signals are available. Level signal: "Emergency stop input" or "Collective ON/OFF" Pulse signal: "Collective ON/OFF" or "Local remote controller prohibit/permit" One input can be selected from those above. * An external input/output adapter (PAC-YT41HAA (sold separately)) is required. Relays and DC power supply or other devices must be prepared at the site.	0	O
External output (Error output, operation output)	"ON/OFF" and "error/normal" are output with the level signal. * An external input/output adapter (PAC-YT41HAA, PAC-YT51HAA (sold separately)) is required. Relays and DC power supply or other devices must be prepared at the site.	0	0
Checking the Gas Amount	Use this function to check for refrigerant leak from the outdoor unit. * When this function is used, the gas amount checking function of the outdoor unit cannot be used. This function is for CITY MULTI R2 and Y (PUMY is excluded.) series only.		
Schedule operation	Weekly schedule setting up to 12 pattern is available. In one pattern, up to 16 setting of "ON/OFF", "Operation mode", "Set Temperature", "Fan speed", "Air flow direction" and "Permit / Prohibit local operation" can be scheduled. Two types of weekly schedule(Summer/Winter) can be set. Today's schedule setting up to 5 pattern in available.	0	0

Depending on the installation conditions, power supply unit (PAC-SC51KUA) is required. Please contact your local distributor or MITSUBISHI ELECTRIC branch office for further information.

Centralized Remote Controller

Centralized controller AE-200E/AE-50E



Dimensions: 284(W) x 200(H) x 65(D) mm : 11-5/32(W) x 7-27/32(H) x 2-9/16(D) in.

Control Screen for Power Consumption



Energy consumption of applicable area is displayed by the month, day, and hour. Energy consumption of two different units, groups and blocks can be compared.

Fan operation time as well as energy consumption can be displayed.



Energy consumptions of air-conditioning equipment are ranked and displayed by individual air-conditioning equipment and by area, thus visualizing high-load components. Also, comparison of energy consumption with target electric energy is possible.

• By comprehensibly showing the energy consumption of air-conditioning equipment, it provides assistance in energy efficiency.

NEW

Dual

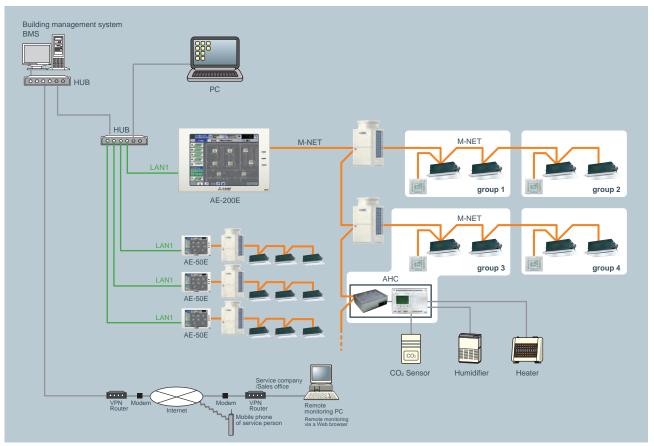
Point

- Energy consumption of air-conditioning equipment by individual area is displayed using graphs for easier viewing.
- Enables comparisons with the previous year's power consumption as well as with the target electric power, thus allowing users to check the operating state at a glance.
- Floor layout is displayed on the 10.4-inch LCD touch panel, facilitating easier operation of air-conditioning equipment.
- In an easy and flexible manner, an optimum system can be established according to the scale of facilities.
- Implements control on up to 50 indoor units of airconditioning equipment.
- By using three units of expansion controller "AE-50E", the centralized control is implemented for the maximum of 200 indoor units.
- Features for operating and monitoring the hot water heat pump are also available on PWFY.
- Centralized batch control on PWFY is possible in addition to that on air-conditioning unit.



Comparison in the number of connectable units

System Structure



Functions

	□ : Each unit O : Each group ● : Each block △ : Each floor O :	Collective X:	Not available
Item	Description	Operations	Display
Controllable number of unit	Up to 50 units/50 groups	· · · · · · · · · · · · · · · · · · ·	
ON/OFF	ON and OFF operation for the air conditioning units and general equipment. (To operate general equipment, PAC-YG66DCA is required.)	$00\Delta \bullet$	00
Operation mode	Switches between several operation modes depending on the air conditioning unit. Air conditioning unit : Cool/Dry/Auto(*)/Farv/Heat LOSSNAY unit : Heat Recovery/Bypass/Auto Air To Water (PWFY) units : Heating, Heating ECO, Hot Water, Anti-freeze, Cooling(**) * Auto mode is for CITY MULTI R2 and WR2 series only. ** Only PWFY	0040	0
Temperature setting	Cool/Dry: 19°C (67°F) -35°C (85°F) [14°C (57°F) -30°C (87°F)] Heat: 4.5°C (40°F) -28°C (83°F) [17°C (63°F) -28°C (83°F)] Auto: 19°C (67°F) -28°C (83°F) [17°C (63°F) -28°C (83°F)] The range of temperature depends on the air conditioning unit. [] [] in case of using middle-temperature on PDFY, PEFY-VML/VMR/VMS/VMH-by setting DipSW7-1 to ON. Yet, PEFY-VMH-4-F is excluded.	0040	0
Fan speed setting	Models with 4 air flow speed settings : Hi/Mid-2/Mid-1/Low Models with 3 air flow speed settings : Hi/Mid/Low Models with 2 air flow speed settings : Hi/Low Fan speed setting (including Auto) varies depending on the model.	0040	0
Air flow direction setting	Air flow direction angles, 4-angles or 5-angles Swing, Auto (Louver cannot be set)	$00\Delta \bullet$	0
Schedule operation	Weekly schedule can be set by groups based on daily operation pattern.	$00\Delta \bullet$	
Permit/prohibit local operation	Individually prohibits operation of each local remote controller function. (ON/OFF, Operation mode, Set temperature, Filter sign reset, Air Direction*, Fan Speed*, Timer*) * This function depends on the model.	0040	0
Indoor unit intake temperature	Measures the intake temperature of the indoor unit only when the indoor unit is operating.	×	
Error	When an error is currently occuring on an air conditioning unit, the afflicated unit and the error code are displayed.	×	
Test run	This operates air conditioning units in test run mode.	$00\Delta \bullet$	0
Ventilation interlock	The ventilation unit (LOSSNAY) is able to automatically start its operation when operation of the interlocked indoor unit starts.	$00\Delta \bullet$	0
External input/output	By using optional external input/output adapter (PAC-YG10HA-E) you can set and monitor the following. Input : By level signal : "Batch ON/OFF", "Batch emergency stop" By pulse signal : "Batch ON/OFF", "Enable/disable local remote controller" Output : "ON/OFF", "Error/Normal"	0	0
Energy Management	Bar Graph : Indoor unit Electric Energy, FAN operation time, Thermo-ON time (TOTAL, Cooling, Heating) can be displayed hourly, daily and monthly. Line Graph : Outdoor temp., Room temp., Set temp. (Heating, Cooling) input from PAC-YG63MCA and temp. from AHC.	×	
Advanced HVAC Controller (AHC)	The status of AHC can only be monitored.	×	0
New Smart ME contoroller	The status of sensor on this controller can be monitored.	×	0



Centralized Remote Controller

With a new coloured touch panel, and continuation of all the G-50A functions, AG-150A visualizes its functions from basic control to advanced operations and bringing an ultimate controller to reality.

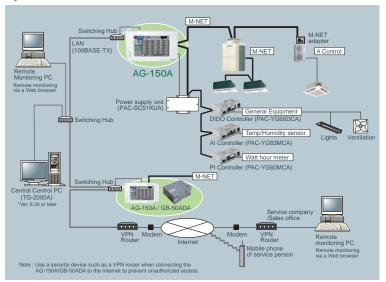
Centralized controller AG-150A



Dimensions: 300(W) x 185(H) x 70.3(D) mm : 11-13/16(W) x 7-5/16(H) x 2-13/16(D) in.



System structure



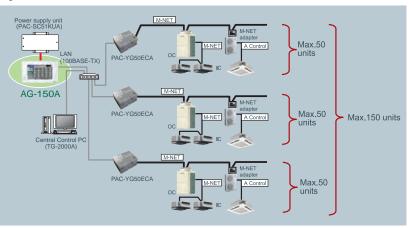
Expansion Controller PAC-YG50ECA



Dimensions: 250(W) x 217(H) x 97.2(D) mm : 9-7/8(W) x 8-9/16(H) x 3-7/8(D) in.

With a connection of a Expansion Controller, maximum of 150 units/groups can be connected to AG-150A.

System structure



*Do not connect PAC-YG50ECA to TB3 of the outdoor unit.

*Use a security device such as a VPN router when connecting the AG-150A etc. to the Internet to prevent unauthorized access.

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Design

Backlight color liquid crystal

Backlight makes it easy to see and control units. One can identify whether a unit is ON or OFF from a distance.

Control in the night with no lights is possible.

Touch panel

9 inch wide, high-resolution

Touch panel enables operation of units by touching with index finger.

When object unit is touched, orange box appears around the unit icon indicating the unit selected.

Flat back

Easy installation

Allows for an installation of the unit either directly to the wall surface* or using the installation hole in the wall. *Optional parts are required.

USB memory compatible

Measurement/initial setting CSV data extractable with USB memory. Can save and overwrite setting data.

Functions

Controllable units/groups

Controls up to 50 units/groups (including indoor units, LOSSNAY, DIDO/AI/PI controller) Up to 150 units can be controlled via expansion controller;PAC-YG50ECA (AG-150A software needs to be upgraded to Ver. 2.10 or later.)

Monitoring functions

Temperature/Humidity (using AI controller) General equipment such as lights on LCD (using DIDO controller) Interlock function from AI controller, DIDO controller to indoor units and between DIDO units are available. AG-150A interlock with DIDO controller or free contact on an indoor unit available. * Ver. 2.30 or later

Energy saving functions

Seasonal scheduling and automatic switch over *1 Yearly scheduling on LCD *1 Scheduling fan speed and airflow direction Optimized Start up External temperature interlock control Night setback control *1 License required.

Functions

	🔲 : Each unit 🔿 : Each group 🛛 : Each block 🛆 : Each floor 🔘 : Collec	tive X∶Not a	vailable
Item	Description	Operations	Display
Controllable unit	50 units/groups or 150 units/groups via expansion controller; PAC-YG50ECA.		
ON/OFF	Run and stop operation for the air conditioner units and general equipment. (To operate general equipment, PAC-YG66DCA is required.)	$\bigcirc \bigcirc \triangle \bigcirc$	$\circ \circ$
Mode selection	Switches between Cool / Dry / Auto / Fan / Heat. (Group of LOSSNAY unit : automatic ventilation/ vent - heat interchange/ normal ventilation) depending on the air conditioner unit. Auto mode is for CITY MULTI R2 and WR2 series only.	$\bigcirc \bigcirc \land \bullet$	0
Temperature setting	Cool/Dry : 19°C-30°C (14°C-30°C) / 67°F-87°F(57°F-87°F) Heat : 17°C-28°C (17°C-28°C) / 63°F-83°F(63°F-83°F) Auto : 19°C-28°C (17°C-28°C) / 63°F-83°F(63°F-83°F) () in case of using middle-temperature on PEFY-VML/VMR/VMS/VMH by setting DipSW7-1 to ON. Yet, PEFY-P-VMH-E-F is excluded.	$\bigcirc \bigcirc \triangle \bullet$	0
Fan speed setting	Models with 4 air flow speed settings: Hi/Mid-2/Mid-1/Low Models with 3 air flow speed settings: Hi/Mid/Low Models with 2 air flow speed settings: Hi/Low Fan speed setting (including Auto) varies depending on the model.	$\bigcirc \bigcirc \triangle \bullet$	0
Air flow direction setting	Air flow direction angles, 4-angle or 5-angle Swing, Auto (Louver cannot be set)	$\bigcirc \bigcirc \triangle \bigcirc$	0
Schedule operation	Annaul/Weekly (5 types)/today schedule can be set for each group of air conditioning units. Optimized startup setting is also available.	$\bigcirc \bigcirc \triangle \bigcirc$	0
Permit / Prohibit local operation	Individually prohibit operation of each local remote control function (Start/Stop, Change operation mode, Set temperature, Reset filter).	$\bigcirc \bigcirc \triangle \bigcirc$	0
Indoor unit intake temperature	Measures the intake temperature of the indoor unit only when the indoor unit is operating.	X	0
Error	When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed.	×	
Test run	This operates air conditioner units in test run mode.	$\bigcirc \bigcirc \triangle \bigcirc$	0
Ventilation interlock	The ventilation unit (LOSSNAY) is able to automatically start its operation when operation of the interlocked indoor unit starts.	$\bigcirc \bigcirc \triangle \bigcirc$	0
External input/output	By using optional external input/output adaptor (PAC-YG10HA) you can set and monitor the following. Input : By level signal : "Batch start/stop", "Batch emergency stop" By pulse signal : "Batch start/stop", "Enable/disable local remote controller" Output : "Start/stop", "Error/Normal"	O	0

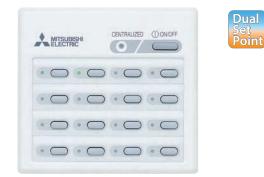
*NOTE: Operation and displayed content vary depending on the indoor unit model . •Future release schedule is subject to change without notice.



Centralized Remote Controller

Just press a switch to start. All of the units can be On/Off by pressing the main switch, and each unit in the group can be On/Off with individual switch. The PAC-YT40ANRA also has hardwired connection available (On/Off input, fire alarm input, run output, fault output).

ON/OFF remote controller PAC-YT40ANRA



- The group setting is kept in nonvolatile memory. No need to worry about re-setting at power failure.
- No individual AC power supply is needed.
 The power can be supplied from one outdoor unit (R410A) or Power supply unit.

Dimensions: 130(W) x 120(H) x 19(D) mm : 5-1/8(W) x 4-23/32(H) x 3/4(D) in.

System example

Image: Controller Image: Controller

FUNCTION	DESCRIPTION	PAC-Y	T40ANRA
UNITS	Max No.Units	50 units	/16 groups
		OPERATIONS	DISPLAY
ON/OFF	Run and stop operation	\checkmark	
FRAD INDIATION	LED flashes during failure.		
ERROR INDICATION	(The error code can be confirmed by removing the cover.)	_	
VENTILATION OPERATION	Group operation of only LOSSNAY units possible.	~	
(INDEPENDENT)	*Only ON/OFF of group.		
	The LOSSNAY will run in interlock with the operation of indoor unit.		
VENTILATION OPERATION	*The fan rate and mode cannot be changed.		
(INTERLOCKED)	The LED will turn ON only during operation after interlocking.		
EXTERNAL INPUT	On/Off/Fire Alarm *	~	-
EXTERNAL OUTPUT	On/Off/Faults *	—	\checkmark

* Applicable to collective only Not applicable to groups

AHC ADAPTER PAC-IF01AHC-J



Advanced HVAC CONTROLLER (hereafter referred to as AHC) comprises of MITSUBISHI ELECTRIC's AHC ADAPTER (PAC-IF01AHC-J) and α 2 SIMPLE APPLICATION CONTROLLER* (hereafter referred to as ALPHA2).

 α SIMPLE APPLICATION CONTROLLER is one of the Programming Logic Controllers that are manufactured by MITSUBISHI ELECTRIC CORPORATION.

Dimensions: 116(W) x 90(H) x 40(D) mm : 4-9/16(W) x 3-1/2(H) x 1-9/16(D) in.

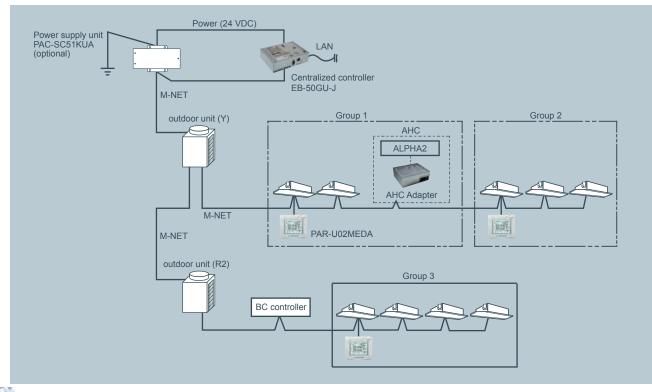
AHC allows for the connection of MITSUBISHI ELECTRIC's air conditioning network system (hereafter referred to as M-NET) to other systems, which was not possible with the use of ALPHA2 alone. AHC provides the following functions.

- ① Controls external devices using the sensor data of the air conditioning units connected to M-NET.
- 2 Interlocks the operation of air conditioning units and external devices that are connected to ALPHA2.
- ③ Controls air conditioning units that are connected to M-NET.
- ④ Allows for the combined use of the items ①-③ above.
- (5) Monitors the input/output status of ALPHA2 via a remote controller or a centralized controller.

Compatible controllers

- Remote Controller: PAR-U02MEDA
- Centralized Controller: EB-50GU-J
- * Refer to the manual that came with ALPHA2 for information about ALPHA2.
- * The use of AHC ADAPTER requires either a remote controller or a centralized controller.

System Structure



Centralized **Remote Controller**

PI Controller PAC-YG60MCA



Dimension: 200(W) x 120(H) x 45(D) mm : 7-7/8(W) x 4-3/4(H) x 1-13/16(D) in.

No more PLCs are needed!

Our new PI controller makes it possible to perform energy saving without PLC, which is cost saving.

Maximum of 4 measurement meter (WHM, gas meter, water meter, calorie meter) can be connected to the PI controller and can be used also for charge calculation.

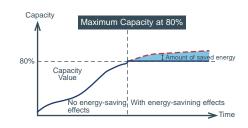
*24 VDC power needs to be provided on site.

Energy Saving Control (Peak Cut)

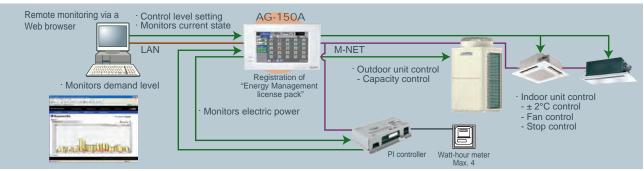
Enables Energy Saving Control with the use of our new PI controller. (Registration of "Energy Management license pack" is required.)

To perform energy saving, the capacity of the outdoor unit is controlled.

*Please note that when using an energy saving control, there are no warranties to failures such as usage over the contracted electricity.



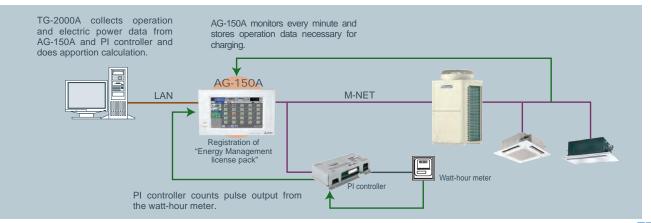
System Structure



Charge Calculation

Enables charge calculation for each tenant and output as CSV file

System Structure



Remote Controller

DIDO Controller PAC-YG66DCA



Dimension: 200(W) x 120(H) x 45(D) mm : 7-7/8(W) x 4-3/4(H) x 1-13/16(D) in.

No more PLCs are needed!

Our new DIDO controller makes it possible to control general-purpose equipment without PLC, which is cost saving. Up to 6 general-purpose equipment can be connected to the DIDO controller.

*24 VDC power needs to be provided on site.

General-purpose equipment Control

Enables to control and monitor equipment other than air-conditioners (air-conditioners of other companies, lights, ventilators, etc.) **System Structure**

- In addition to above, the air-conditioners can be interlocked with general-purpose equipment. E.g. Interlock between indoor units and security system.
- The indoor units can be turned ON/OFF when the security system is activated/deactivated.



AG-150A M-NET DIDO controller Lights Security card reader AC of other companies

AI Controller PAC-YG63MCA



Dimension: 200(W) x 120(H) x 45(D) mm : 7-7/8(Ŵ) x 4-3/4(H) x 1-13/16(D) in.

Our new AI controller makes it possible to monitor the values measured by the temperature/humidity sensor connected to the Al controller.

The AI controller has two input and two output channels. *24 VDC power needs to be provided on site.

Temperature/Humidity Monitoring

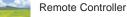
Monitors the values measured by the temperature/humidity sensor connected to the Al controller

> Temperature : Pt100, 4 to 20mA DC, 1 to 5 VDC, 0 to 10 VDC Humidity : 4 to 20mA DC, 1 to 5 VDC, 0 to 10 VDC

• Trend displays of measurement data can be shown on a Web browser.

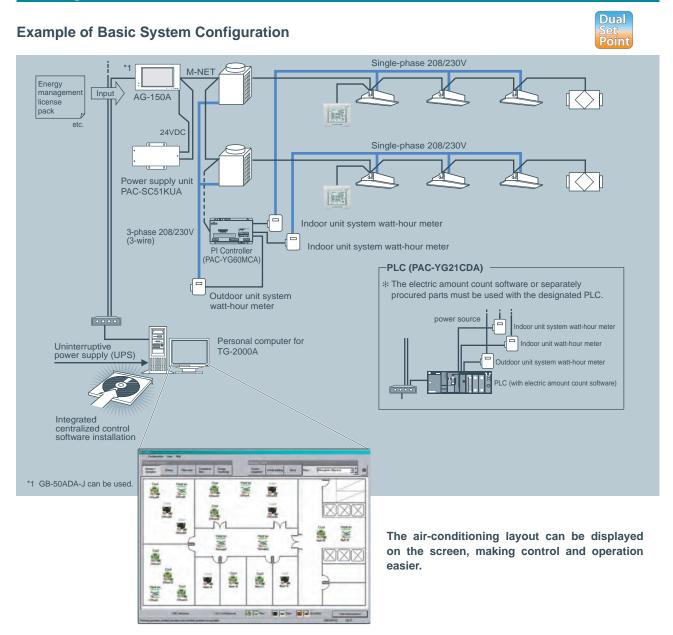






Centralized Remote Controller

Integrated centralized control software TG-2000A



Effective use of TG-2000A

Multiple air conditioning charges in multiple buildings can be calculated. The power apportionment percentage data and apportioned power rate can be calculated for each unit, and can be output as a CSV file.

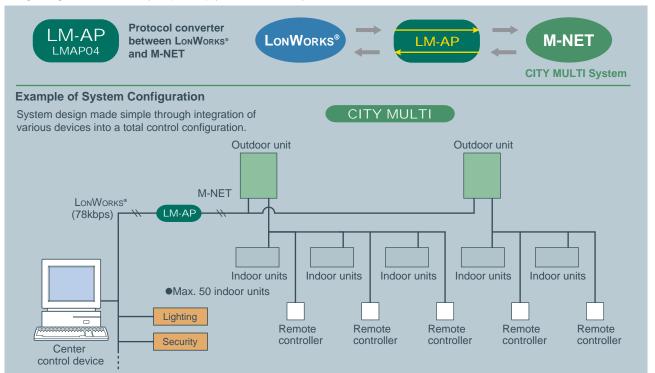
For example, installing TG-2000A to the system in the headquarters makes it possible to control AG-150A/GB-50ADA-J units that are used in branch offices.

LONWORKS® (LMAP04)

CITY MULTI can easily combine into a Building Management System (BMS) via the LONWORKS and M-NET adapter LMAP04. LONWORKS® is an opened transmission protocol widely used at BMS, and related equipment control. CITY MULTI is therefore compatible with large-scaled BMS management via LONWORKS®.

One LM ADAPTER unit can connect up to 50 Groups/50 indoor units.

Using a single LONWORKS® adapter (LM-AP), you can connect up to a maximum of 50 indoor units.



LONWORKS[®]

The building management system is connected to the CITY MULTI air conditioning system using LONWORKS[®], which is widely used on field networks, allowing for an open network and savings in construction to face.

LON, LONWORKS[®] and the Echelon logo are trademarks of Echelon Corporation registered in the United States and other countries.

LonWorks® INTERFACE		
FUNCTION	CONTENT	
Control		
ON/OFF	Run/Stop	
Mode Operation	Cooling/Drying/Heating/Auto/Fan/Setback	
Setpoint Adjustment	Cooling 19-35°C, Heating 4.5-28°C, Auto 19-28°C	
Fan Speed Control	Lo-Mi1-Mi2-Hi	
Permit/Prohibit	ON/OFF, Mode, Setpoint	
Emergency Stop	-	
Monitoring		
ON/OFF Run/Stop		
Mode	Cooling/Drying/Heating/Auto/Fan/Setback	
Setpoint	Cooling 19-35°C, Heating 4.5-28°C, Auto 19-28°C	
Fan Speed	Lo-Mi1-Mi2-Hi	
Permit/Prohibit	ON/OFF, Mode, Setpoint	
Alarm State	Normal/Abnormal	
Room Temperature	-10°C~50°C	
Thermo ON/OFF	ON/OFF	



Centralized Remote Controller

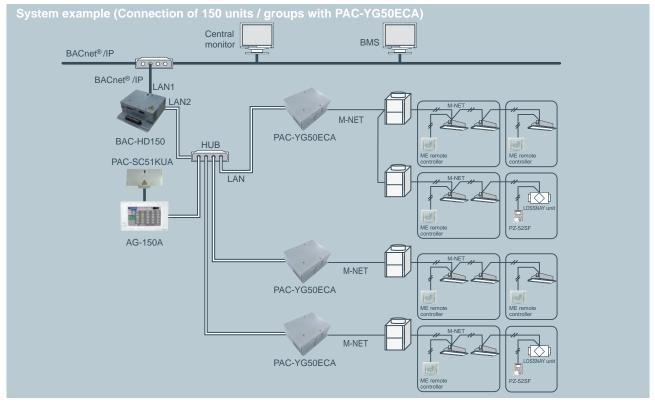
BACnet® (BAC-HD150)

CITY MULTI can easily combine into a Building Management System (BMS) via the BACnet® and M-NET adapter BAC-HD150. BACnet® is an opened transmission protocol widely used at BMS, and related equipment control. CITY MULTI is therefore compatible with large-scaled BMS management via BACnet®.

BAC-HD150 can control up to 50 units/groups (including LOSSNAY).

Up to 150 units/groups (including LOSSNAY) can be controlled from one BAC-HD150 with three expansion controllers PAC-YG50ECA. (50 units/PAC-YG50ECA)

When the dual-set-point function is used, no expansion controllers can be connected, and only up to 50 units/groups can be controlled from each BAC-HD150.



BACnet[®] and M-NET adapter

FUNCTION	CONTENT
Operation	
ON/OFF	Run/Stop
Mode	Cool/Dry/Heat/Auto/Fan/Setback
Fan Speed	Low-Mid1-Mid2-Hi
Airflow Direction	Horizontal- 60°-80°-100°swing
Set Temperature	Cooling 19-35°C [67-95°F], Heating 4.5-28°C [40-83°F], Auto 19-28°C [67-83°F]
Filter Sign Reset	Normal/Reset
Permit/Prohibit	ON/OFF, Mode, Filter sign reset, Set temp.
Forced OFF	Release/Effective
Monitoring	
ON/OFF	Run/Stop
Mode	Cool/Dry/Heat/Fan/Setback
Fan Speed	Low-Mid1-Mid2-Hi
Air Direction	Horizontal- 60°-80°-100°swing
Set Temperature	Cooling 19-35°C [67-95°F], Heating 4.5-28°C [40-83°F], Auto 19-28°C [67-83°F]
Filter Sign	Normal/Reset
Permit/Prohibit	ON/OFF, Mode, Filter sign reset, Set temp.
Indoor Temperature	-
Alarm Signal	Normal/Abnormal
Error Code	2 Character code- Indicates all unit alarms
Communication State	Normal/Abnormal







OPTIONAL PARTS FOR INDOOR UNITS

>>4-way cassette type (PLFY-VBM/VCM)

Description	M - 4-1	Applicable capacity		
Description	Model	VBM	VCM	
Decoration panel	SLP-2AAW/SLP-2ALW	-	P20, P25, P32, P40	
Decoration panel	PLP-6BA	P20, P25, P32, P40, P50, P63, P80, P100, P125	-	
Automatic Filter Elevation Panel	PLP-6BAJ	P20, P25, P32, P40, P50, P63, P80, P100, P125	-	
Multi-functional casement	PAC-SH53TM-E	P20, P25, P32, P40, P50, P63, P80, P100, P125	-	
High-efficiency filter element	PAC-SH59KF-E	P20, P25, P32, P40, P50, P63, P80, P100, P125	-	
Wireless signal receiver	PAR-SA9FA-E	P20, P25, P32, P40, P50, P63, P80, P100, P125	-	
Space panel	PAC-SH48AS-E	P20, P25, P32, P40, P50, P63, P80, P100, P125	-	
"i-see" sensor	PAC-SA1ME-E	P20, P25, P32, P40, P50, P63, P80, P100, P125	-	
Duct flange for fresh air intake	PAC-SH65OF-E	P20, P25, P32, P40, P50, P63, P80, P100, P125	-	
Shutter plate	PAC-SH51SP-E	P20, P25, P32, P40, P50, P63, P80, P100, P125	-	

>>2-way cassette type (PLFY-VLMD)

>>1-way cassette type(PMFY-VBM)

Model

PMP-40BM

Applicable capacity

P20, P25, P32, P40

Description

Decoration panel

Description	Model	Applicable capacity
	CMP-40VLW-C	P20, P25, P32, P40
Decoration panel	CMP-63VLW-C	P50, P63
	CMP-100VLW-C	P80, P100
	CMP-125VLW-C	P125
OA duct flange	PAC-KH11OF	P20, P25, P32, P40, P50, P63, P80, P100

>>Ceiling concealed type (PEFY-VMH(S))

Description	Model	Applicable capacity	Remarks
Drain pump	PAC-KE04DM-F	P40~P250	For VMH models
Drain pump	PAC-KE05DM-F	P200, P250	For VMHS models
	PAC-KE86LAF	P40, P50, P63	-
Long life filter	PAC-KE88LAF	P71, P80	-
Long me men	PAC-KE89LAF	P100, P125, P140	-
	PAC-KE85LAF	P200, P250	_
Filter box	PAC-KE63TB-F	P40, P50, P63	Necessary when long life filter is used
	PAC-KE80TB-F	P71, P80	
	PAC-KE140TB-F	P100, P125, P140	recessary when folg life lifter is used
	PAC-KE250TB-F	P200, P250	

>>Ceiling concealed type (PEFY-VMA(L))

Description	Model	Applicable capacity
	PAC-KE91TB-E	P20, P25, P32
	PAC-KE92TB-E	P40,P50
Filter box	PAC-KE93TB-E	P63, P71, P80
	PAC-KE94TB-E	P100, P125
	PAC-KE95TB-E	P140

>>Fresh air intake type (PEFY-VMH-E-F)

Description	Model	Applicable capacity
	PAC-KE88LAF	P80
Long life filter	PAC-KE89LAF	P140
	PAC-KE85LAF	P200, P250
Filter box	PAC-KE80TB-F	P80
	PAC-KE140TB-F	P140
	PAC-KE250TB-F	P200/P250
Drain pump	PAC-KE04DM-F	P80, P140, P200, P250

>>Ceiling suspended type (PCFY-VKM)

Description	Model	Applicable capacity
Drain numn kit	PAC-SH83DM-E	P40
Drain pump kit	PAC-SH84DM-E	P63,100,125
High efficiency filter	PAC-SH88KF-E	P40
	PAC-SH89KF-E	P63
	PAC-SH90KF-E	P100,125
Wireless remote controller kit	PAR-SL94B-E	P40,63,100,125

>>Ceiling concealed type (PEFY-VMS1(L))

Description	Model	Applicable capacity
Drain pump	PAC-KE07DM-E	P15, 20, 25, 32, 40, 50, 63 *For PEFY-VMS1L only
Control box replace kit	PAC-KE70HS-E	P15, 20, 25, 32, 40, 50, 63

>>Wall mounted type (PKFY-VBM/VHM/VKM)

Description	Model	Applicable capacity
External LEV Box	PAC-SG95LE-E	P15, 20, 25, 32, 40, 50, 63
Drain pump kit	PAC-SH75DM-E	P32, 40, 50
	PAC-SH94DM-E	P63,100

OPTIONAL PARTS FOR OUTDOOR UNITS

>>For PUMY series

	Description	Model
1	Branch Pipe (2 Branch)	CMY-Y62-G-E
	Header	CMY-Y64-G-E
1	Header	CMY-Y68-G-E
	Drain Socket	PAC-SG61DS-E
	Centralized Drain Pan	PAC-SH97DP-E
	Port Connector ($ø9.52 \rightarrow ø12.7$)	PAC-SG73RJ-E
	Port Connector (ø15.88 → ø19.05)	PAC-SG75RJ-E
	Air Protect Guide (2 pcs required)	PAC-SH95AG-E
	Air Outlet Guide	PAC-SH96SG-E

>>For PUHY series

Description	Model	Remarks
	CMY-Y100VBK3	For PUHY-P400~P650YSKB / EP500~EP600YSLM
Twinning kit	CMY-Y200VBK2	For PUHY-P700~P900YSKB
	CMY-Y300VBK3	For PUHY-P950~P1350YSKB / EP650~EP1350YSLM
	CMY-Y102SS-G2	200 or below (Total capacity of indoor unit)
	CMY-Y102LS-G2	201-400 (Total capacity of indoor unit)
5	CMY-Y202S-G2	401-650 (Total capacity of indoor unit)
Branch pipe (Joint)	CIVIT-12023-G2	The 1st branch of P400~P650YSKB / EP400~EP600YSLM
	CMY-Y302S-G2	651 or above (Total capacity of indoor unit)
		The 1st branch of P700~P1350YSKB / EP650~EP1350YSLM
	CMY-Y104-G	For 4 branches
Branch pipe (Header)	CMY-Y108-G	For 8 branches
	CMY-Y1010-G	For 10 branches
Relay box	PAC-BH02KTY-E	Relay box should be used together with Base heater PAC-BH-EHT-E.
	PAC-BH04EHT-E	For S Module
Base heater	PAC-BH05EHT-E	For L Module
	PAC-BH06EHT-E	For XL Module

Note : Indoor unit capacities: the capacity of an indoor unit is the same as the number used for its type identification.

>>For PURY series

Description	Model	Remarks		
	CMY-R100VBK-A	For PURY-P400~P500YSLM		
	CMY-R100VBK2	For PURY-P550~P650YSLM		
Twinning kit	CMY-ER100VBK-A	For PURY-EP500YSLM		
Twitting Kit	CMY-R200VBK2	For PURY-P700~P800YSLM		
	CMY-ER200VBK	For PURY-EP550~EP900YSLM		
	CMY-R200XLVBK	For PURY-P850~900YSLM		
	CMY-Y102SS-G2	200 or below (Total capacity of indoor unit)		
Branch pipe (Joint)	CMY-Y102LS-G2	201-400 (Total capacity of indoor unit)		
Branch pipe (Joint)	CMY-Y202S-G2	401-650 (Total capacity of indoor unit)		
		The 1st branch of P450~P650		
Relay box	PAC-BH02KTY-E Relay box should be used together with Base heater PAC-			
	PAC-BH04EHT-E	For S Module		
Base heater	PAC-BH05EHT-E	For L Module		
	PAC-BH06EHT-E	For XL Module		

Note : Indoor unit capacities: the capacity of an indoor unit is the same as the number used for its type identification.

>>For PQHY series

Description	Model	Remarks		
	CMY-Y102SS-G2	200 or below (Total capacity of indoor unit)		
Branch pipe (Joint)	CMY-Y102LS-G2	201-400 (Total capacity of indoor unit)		
	CMY-Y202S-G2	401-650 (Total capacity of indoor unit)		
	CIVIT-12025-G2	The first branch of P400-P600		
	CMY-Y302S-G2	651 or above (Total capacity of indoor unit)		
	CMY-Y104-G	For 4 branches		
Branch pipe (Header)	CMY-Y108-G	For 8 branches		
	CMY-Y1010-G	For 10 branches		
Twinning kit	CMY-Y100VBK2	For PQHY-P400-P600YSHM-A		
T WITHING KIL	CMY-Y300VBK2	For PQHY-P650-P900YSHM-A		

>>For PQRY series

Description	Model	Remarks	
Branch pipe (Joint)	CMY-Y102SS-G2	200 or below (Total capacity of indoor unit)	
	CMY-Y102LS-G2	201-400 (Total capacity of indoor unit)	
	CMY-Y202S-G2	401-650 (Total capacity of indoor unit)	
		The first branch of P400-P600	
Twinning kit	CMY-Q100VBK	For PQRY-P400-P600YSHM-A	



OPTIONAL PARTS FOR CONTROL

Model	Description	Model	Description
PAC-SE41TS-E	Remote Sensor for A/J/K/M-Net Control	PAC-YT51HAA-J	External input/output adapter for AT-50B
PAC-SE55RA-E	Remote ON/OFF adaptor for Indoor Unit	PAC-YG10HA	External input/output adapter for AE-200E / AG-150A
PAC-SA88HA-EP	Remote Display Adaptor for Indoor Unit	PAC-YG50ECA	Expansion controller for AG-150A
PAC-SA89TA-EP	Timer Adaptor for remote controller	PAC-SC51KUA	Power supply unit for AG-150A / GB-50ADA-J
PAC-SC37SA-E	Output signal connector	PAC-YG81TB	Mounting attachment B type for AG-150A wall-mount installations
PAC-SC36NA-E	Input signal connector	PAC-YG83UTB	Electric box for AG-150A wall-embed installations
PAC-SF46EPA	Transmission booster	PAC-YG84UTB	Electric box for AE-200E wall-embed installations
LMAP04-E	Air conditioner interface	PAC-YG85KTB	Mounting attachment A type for AG-150A/PAC-SC51KUA wall-mount installations
PAC-YG11CDA	Electric amount count software	PAC-YG86TK	Mounting attachment for AE-200E wall-mount installations
BAC-HD150	BAC net [®] and M-NET adapter	PAC-YG71CBL	Black surface cover for AG-150A

OPTIONAL EQUIPMENT FOR BC CONTROLLER

BC Controller Model	Junction pipe kit	Branch pipe
CMB-P104V-G1, GB1		
CMB-P105V-G1		
CMB-P106V-G1		
CMB-P108V-G1, GA1, GB1	CMY-R160-J1	CMY-Y102SS-G2
CMB-P1010V-G1, GA1	-	
CMB-P1013V-G1, GA1		
CMB-P1016V-G1, GA1, HA1, HB1		



Installation Information

1. General precautions

1-1. Usage

- •The air-conditioning system described in this catalogue is designed for human comfort.
- •This product is not designed for preservation of food, animals, plants, precision equipment, or art objects. To prevent quality loss, do not use the product for purposes other than what it is designed for.
- •To reduce the risk of water leakage and electric shock, do not use the product for air-conditioning vehicles or vessels.

1-2. Installation environment

- Do not install any unit other than the dedicated unit in a place where the voltage changes a lot, large amounts of mineral oil (e.g., cutting oil) are present, cooking oil may splash, or a large quantity of steam can be generated such as a kitchen.
- •Do not install the unit in acidic or alkaline environment.
- Installation should not be performed in the locations exposed to chlorine or other corrosive gases. Avoid near a sewer.
- •To reduce the risk of fire, do not install the unit in a place where flammable gas may be leaked or inflammable material is present.
- This air conditioning unit has a built-in microcomputer. Take the noise effects into consideration when deciding the installation position. Especially in a place where antenna or electronic device are installed, it is recommended that the air conditioning unit be installed away from them.
- Install the unit on a solid foundation according to the local safety measures against typhoons, wind gusts, and earthquakes to prevent the unit from being damaged, toppling over, and falling.

1-3. Backup system

In a place where air conditioner's malfunctions may exert crucial influence, it is recommended to have two or more systems of single outdoor units with multiple indoor units.

1-4. Unit characteristics

- Heat pump efficiency depends on outdoor temperature. In the heating mode, performance drops as the outside air temperature drops. In cold climates, performance can be poor. Warm air would continue to be trapped near the ceiling and the floor level would continue to stay cold. In this case, heat pumps require a supplemental heating system or air circulator. Before purchasing them, consult your local distributor for selecting the unit and system.
- •When the outdoor temperature is low and the humidity is high, the heat exchanger on the outdoor unit side tends to collect frost, which reduces its heating performance. To remove the frost, Auto-defrost function will be activated and the heating mode will temporarily stop for 3-10 minutes. Heating mode will automatically resume upon completion of defrost process.
- Air conditioner with a heat pump requires time to warm up the whole room after the heating operation begins, because the system circulates warm air in order to warm up the whole room.
- The sound levels were obtained in an anechoic room. The sound levels during actual operation are usually higher than the simulated values due to ambient noise and echoes. Refer to the section on "SOUND LEVELS" in the City Multi Data Book for the measurement location.
- •Depending on the operation conditions, the unit generates noise caused by valve actuation, refrigerant flow, and pressure changes even when operating normally. Please consider to avoid location where quietness is required.

For BC controller, it is recommended to unit to be installed in places such as ceilings of corridor, restrooms and plant rooms.

The total capacity of the connected indoor units can be greater than the capacity of the outdoor unit. However,

Maintenance Equipment

Maintenance cycle [Note that maintenance cycle does not mean guarantee period.]

The following tables are applicable when using equipment under the conditions below.

- Normal use without frequent START/STOPs (The number of START/STOPs is assumed to be less than 6 times per hour in normal use.)
- Operating hours are assumed to be 10 hours per day/2500 hours per year.

If the following conditions are met, the equipment may not be used, or the "maintenance cycle" and "replacement intervals" may be shortened.

- When equipment is used in an environment where the temperature and humidity are high or change dramatically
- When equipment is used in an environment where the power supply fluctuations (the distortion of voltage, frequency, and waveform) are large (Only within the allowable range)
- When equipment is used in an environment where the unit may receive vibration or mechanical shock
- When equipment is used in an environment where dust, salt, toxic gases such as sulfur dioxide and hydrogen sulfide, and oil mist are present
- When equipment starts/stops frequently and operates for a long time (24-hour air conditioning operation)

Major components	Checking cycle	Maintenance cycle	Major components	Checking cycle	Maintenance cycle
Compressor		20,000 hours	Expansion valve		20,000 hours
Motor		20,000 hours	Valve		20,000 hours
(Fan, Louver, drain pump)		20,000 110015	(solenoid valve, four-way valve)	1 year	20,000 110013
Bearing	1 year	15,000 hours	Sensor (thermistor, presser sensor)	i yeai	5 years
Electric board		25,000 hours	Drain pan		8 years
Heat exchanger		5 vears			

Table 1. Maintenance cycle

Note1 This table shows major components. Refer to the maintenance contract for details.

Note2 This maintenance cycle shows a period in which products are expected to require no maintenance. Use this cycle for planning maintenance (budgeting the maintenance expense etc.) Checking/ Maintenance cycle may be shorter than the one on this table depending on the contents of maintenance check contract.

• Sudden unpredictable accident may occur even if check-up is performed.

Replacement cycle of consumable components [Note that replacement cycle does not mean guarantee period.]

Table 2. Replacement cycle

Major components	Checking cycle	Replacement cycle	
Long-life filter		5 years	
High-performance filter	1.000	1 year	
Fan belt		5,000 hours	
Smoothing capacitor	1 year	10 years	
Fuse		10 years	
Crank case heater		8 years	

Note1 This table shows major components. Refer to the maintenance contract for details.

Note2 This replacement cycle shows a period in which products are expected to require no replacements. Use this cycle for planning maintenance (budgeting expenses for replacing equipments etc.)



FM33568 / ISO 9001;2008

The Air Conditioning & Refrigeration Systems Works acquired ISO 9001 certification under Series 9000 of the International Standard Organization (ISO) based on a review of Quality management for the production of refrigeration and air conditioning equipment.

ISO Authorization System

The ISO 9000 series is a plant authorization system relating to quality management as stipulated by the ISO. ISO 9001 certifies quality management based on the "design, development, production, installation and auxiliary services" for products built at an authorized plant.



The Air Conditioning & Refrigeration Systems Works acquired environmental management system standard ISO 14001 certification.

The ISO 14000 series is a set of standards applying to environmental protection set by the International Standard Organization (ISO). Registered on March 10, 1998.

- Please refer to the installation instructions before installation or servicing of these products.
 - Doing so may cause the unit or pipes to burst, or result in explosion or fire during use, during repair, or at the time of disposal of the unit.
 - It may also be in violation of applicable laws.
- MITSUBISHI ELECTRIC CORPORATION cannot be held responsible for malfunctions or accidents resulting from the use of the wrong type of refrigerant.
- Do not use refrigerant other than the type indicated in the manuals provided with the unit and on the nameplate.
- Under Australian law, only persons suitably licensed are permitted to install, service or repair air conditioning units.

MITSUBISHI ELECTRIC MULTIPLE SPLIT TYPE AIR CONDITIONERS R410A Series



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