

CITY MULTI

Full Product Lineup Catalogue
2015

Air conditioning is an ideal way of controlling the temperature, movement and cleanliness of air inside any building, large or small. With today's buildings being so well insulated and increasingly full of electronic equipment, the need for effective climate control is greater than ever. Not only does it cool in the summer months, but air conditioning can also heat, doing away with the need for separate heating systems altogether. More and more people today are enjoying the benefits of comfortable working and living environments made possible with air conditioning.

Our Latest Technologies

VRF system

VRF stands for Variable Refrigerant Flow. A VRF air conditioning system modulates the flow of refrigerant depending upon the capacity requirements of the building. In its simplest form, a VRF system comprises an air-cooled outdoor unit and a series of indoor units that regulate the air temperature inside an internal space.

Inverter driven technology

At Mitsubishi Electric we strive to continually meet the increasing demands of our customers, being the first in the industry to offer highly advanced 'inverter driven' systems. Using inverter technology our systems produce just the right amount of output to match the exact requirement of any building. These systems work so efficiently that they don't waste valuable energy by over-heating or over-cooling, resulting in greatly reduced running costs. Alternative systems that may appear cheaper, can often cost substantially more to run, making us the most cost effective choice all round.

Intelligent Power Module (IPM) technology

The CITY MULTI range from Mitsubishi Electric provides precise control of energy input, through utilization of its Intelligent Power Module (IPM) technology. By employing this technology, highly efficient operation is possible with compact units closely matching building requirements.

R410A refrigerant

As scientific evidence points to man-made chemicals for the damage caused to the ozone layer, we only use chlorine-free refrigerants that are safe with zero ODP (Ozone Depletion Potential). Accordingly, our systems require less energy to run, and have a significantly lower indirect global warming potential. In short, we produce the most efficient equipment possible, while helping to protect the environment.

Known the world over, the name Mitsubishi is a trusted household name associated with a variety of products and services. Founded in 1920, the company known today as Mitsubishi Electric, quickly rose to the forefront of the air conditioning industry - a position we still enjoy today. We pride ourselves on offering some of the most energy efficient systems available on the market.

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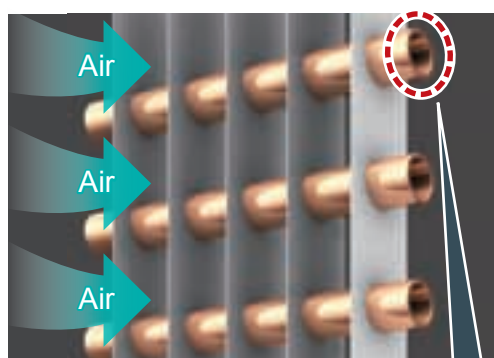
The New YKB/YLM Series

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.

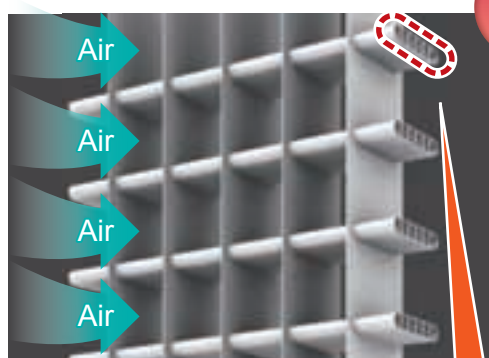


Conventional Heat Exchanger



Conventional Tube Shape

Flat-tube Heat Exchanger



(Illustration)

New Flat Tube

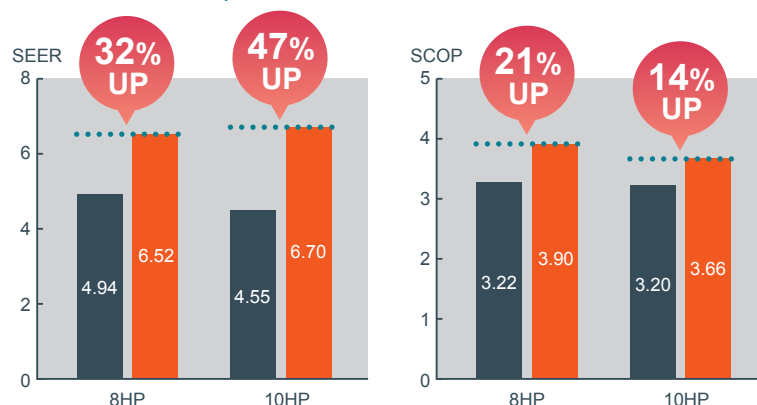
The heat exchanger of the outdoor unit has been drastically changed. Our new model uses a world-first^{*1} aluminum flat-tube heat exchanger as a heat exchanger of the outdoor unit. The flat tubes can reduce airflow resistance, and the larger number of tubes can be installed in the flat-tube heat exchanger compared to our conventional heat exchanger, which can increase the surface area that is in contact with the refrigerant, and the heat exchange performance can be greatly improved. Our new air conditioner can, therefore, operate at higher SEER/SCOP, and maintain the required cooling/heating capacity.

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

Lowest power consumption achieves industry-leading energy efficiency.

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.

Comparison of SEER and SCOP (between PUHY-EP-YJM-A and PUHY-EP-YLM-A)



*1: As of October 2013 (according to our own 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.

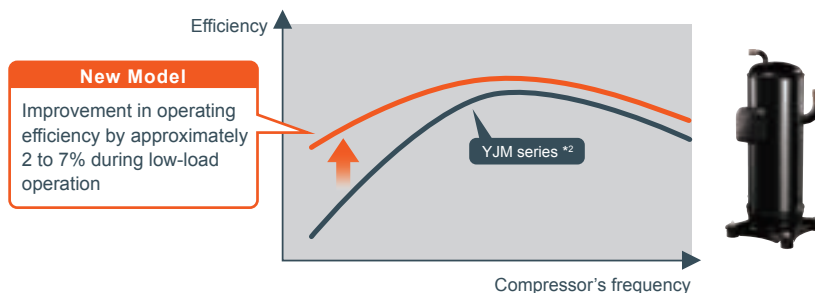
*4: Except for EP300 and EP350 models

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 low-load operation that can occur often in actual use.

Relationship between Compressor's Frequency and Efficiency



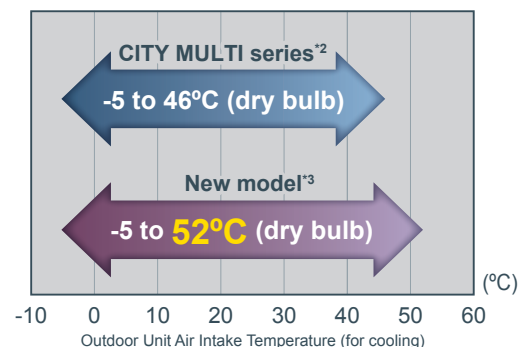
Flexibility of Design

(PUHY-P-Y(S)KB-A1(-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

Global warming with year by year increasing summer temperature should be a matter of concern when designing air conditioners. Besides, the outdoor unit may undergo higher intake temperature than the ambient temperature due to the higher temperature exhaust air from it. Higher temperature of intake air of the outdoor unit may reduce the cooling capacity of the air conditioner.



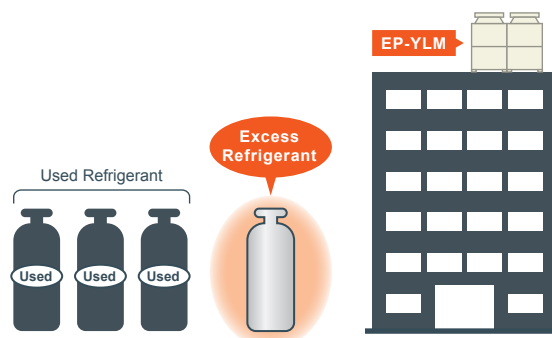
Reliability

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

Less amount of refrigerant is required to be charged on site.

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.

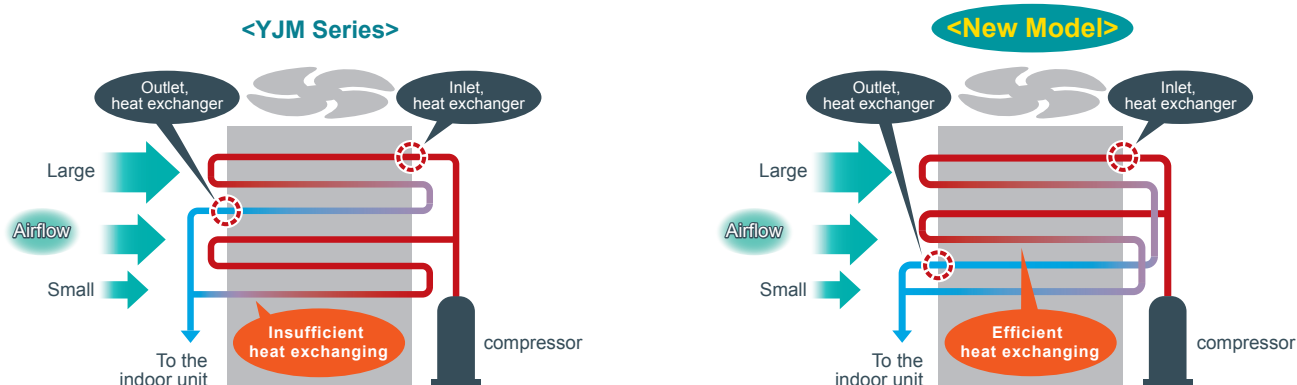
*In the case of liquid pipe $\phi 19.05$



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 exchanging at the lower part of the heat exchanger where the airflow was smaller.

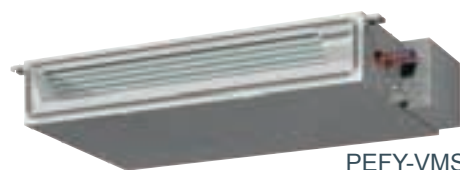
At the upper part of the heat exchanger where the airflow is larger, the gas-liquid two-phase refrigerant which is having a large cooling capacity is intensively distributed. This function leads to efficient use of the unit's heat exchanging capacity.



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-VMS1



PEFY-VMR



PFFY-VKM

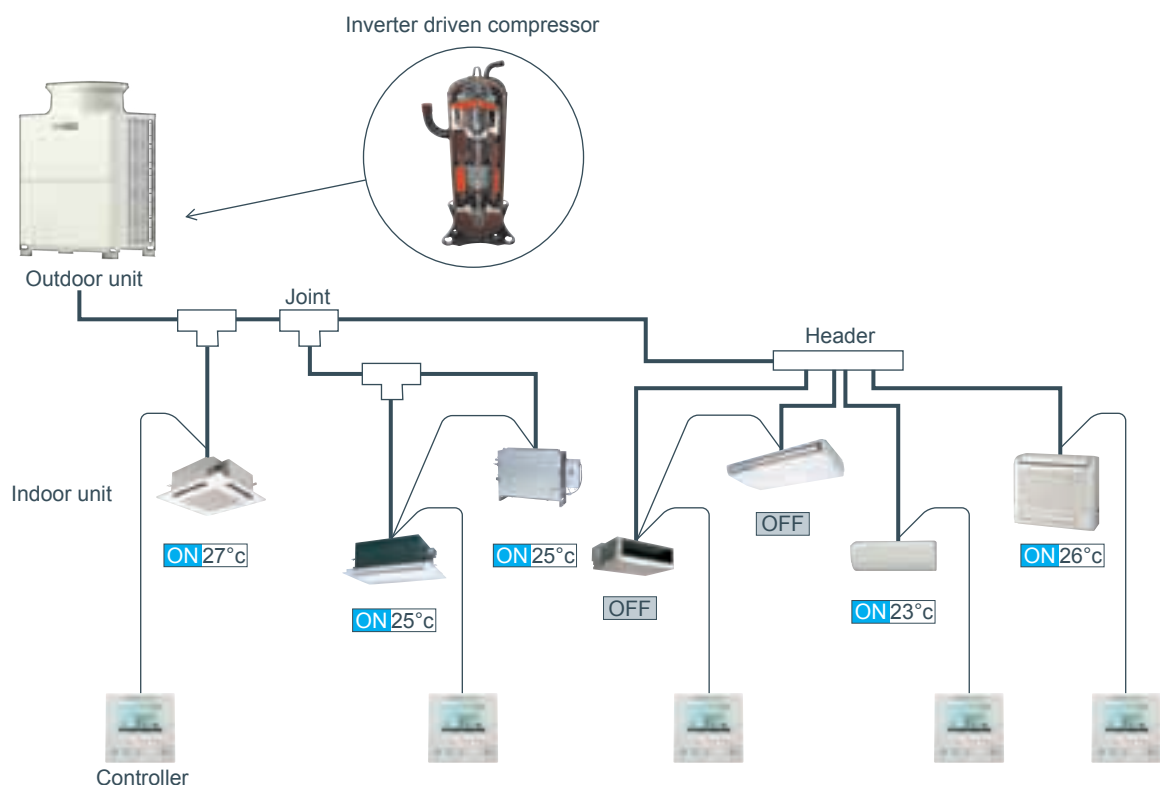
>All the CITY MULTI outdoor units are made under stringent control.

VRF Systems

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 utilizing internet technology and integrated cooling and ventilation indoor units, CITY MULTI is the benchmark and market leader in VRF technology.

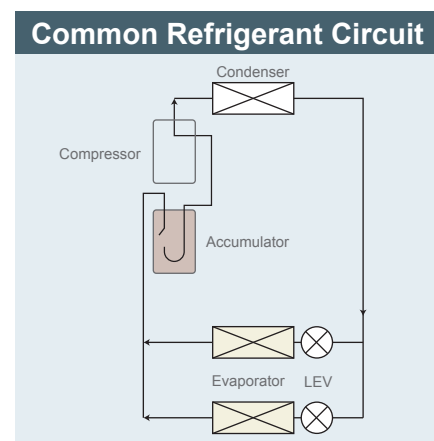
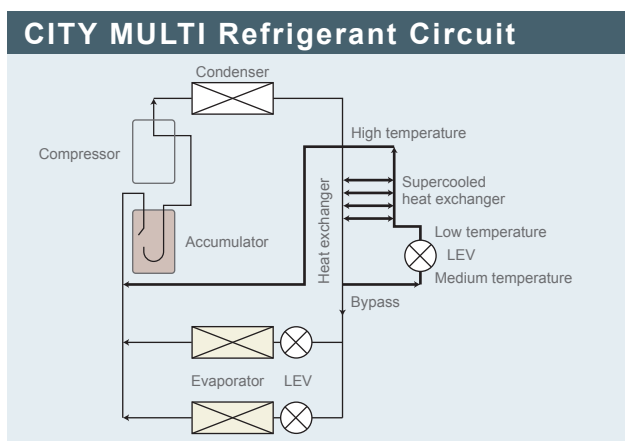
VRF is a multi and direct expansion type air conditioning system where by one outdoor unit can be connected with multiples indoor units. The amount of refrigerant can be regulated freely according to the load on the indoor unit by the inverter driven compressor in the outdoor unit. Zoning in a small 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.



Inverter Driven Compressor Technology



Low
Starting
Currents

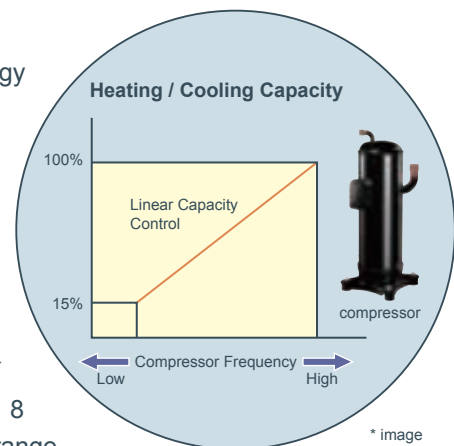
Using inverter driven technology saves energy for several reasons:

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 20HP YLM-A outdoor unit) and smooth transition across the range of compressor frequencies.



* image

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

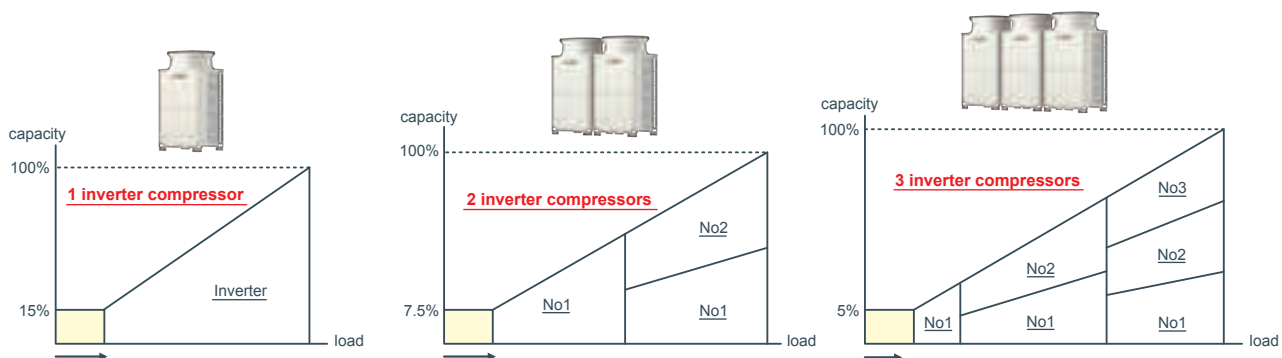
All CITY MULTI compressors are inverter-driven type.

-Capable of precisely matching a building's cooling and heating demands. (High COP model)

The outdoor unit combinations comprise 1 unit for 8-20HP systems (for Y and R2 series), 2 units for 22-24HP systems (for R2, 22-36HP) and 3 units for 26-54HP 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.

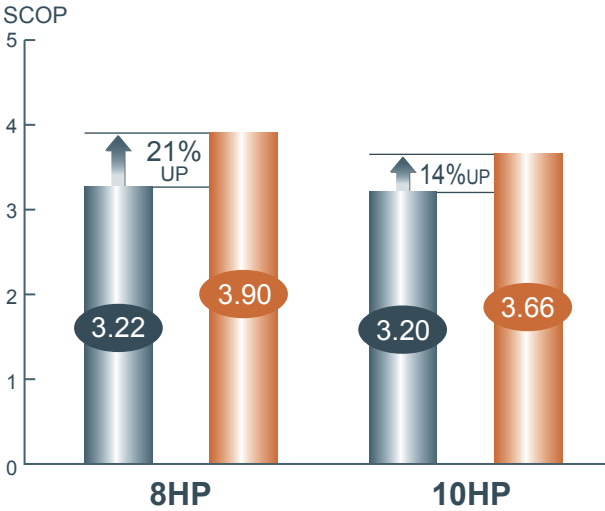
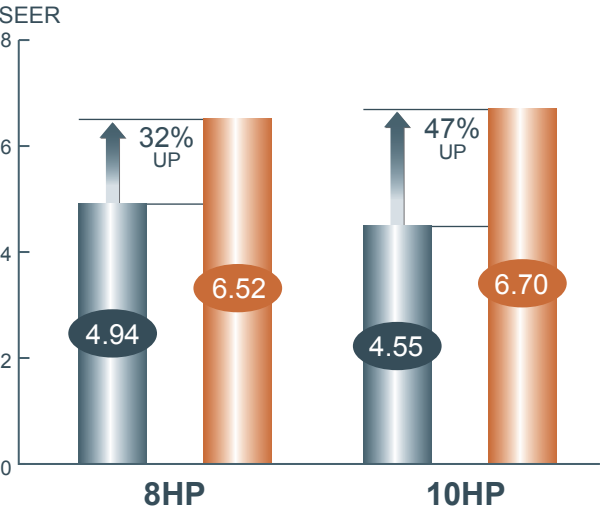
Stable and Smooth Operation





Total Energy Conservation

Comparison of SEER and SCOP
(between PUHY-EP-YJM-A and PUHY-EP-YLM-A)



Intelligent Power Module (IPM) Technology

The YLM-A range from Mitsubishi Electric provides precise control of energy input, through utilization 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 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. Mitsubishi Electric VRF models, the world's highest energy-efficient air-conditioners, will undoubtedly reduce millions of tons of CO₂ emissions.





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 print board. 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

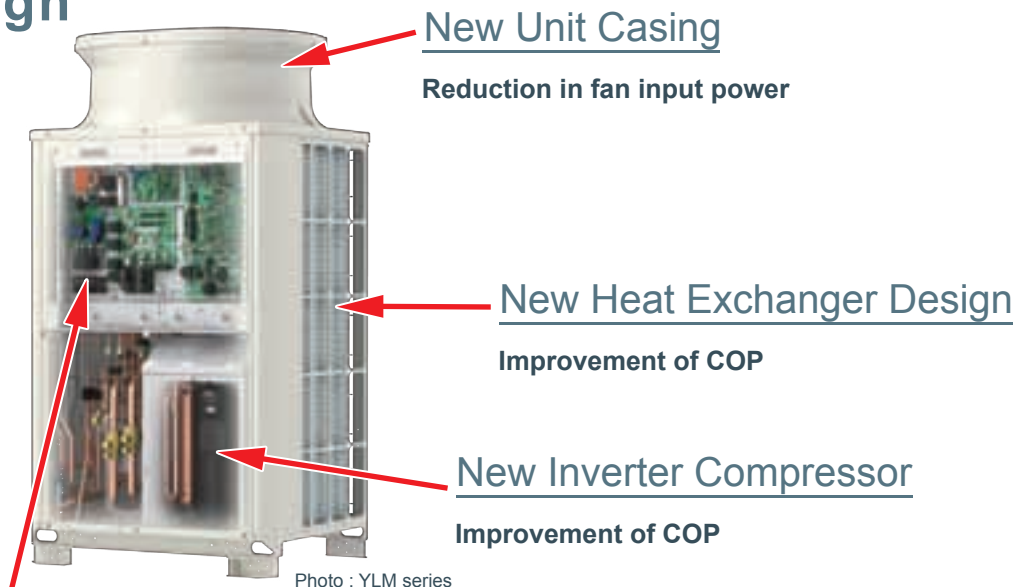
R22, an HCFC-based refrigerant, had been a popular choice for most chillers. However, R22 has been targeted by the Montreal Protocol to be phased out in new equipment. Additionally, governments in many countries are enforcing a ban of HCFC-based refrigerants for new installations.

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

Technical Aspects of Refrigerant

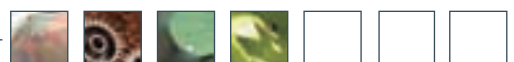
R410A is a more efficient refrigerant as it has a higher specific heat capacity when compared to R407C or R22. This higher energy carrying capacity allows for smaller pipe sizes, longer pipe runs and reduces the volume of refrigerant within a system. This is a major factor when concerning safety and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

New Design



New Control Box Design

Improvement of reliability and easy maintenance

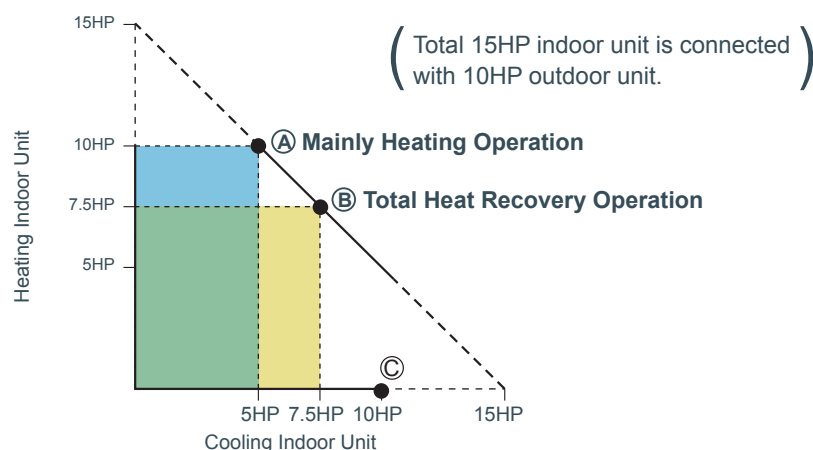


Affordable & Effective

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.

Operation Pattern of CITY MULTI *R2* System

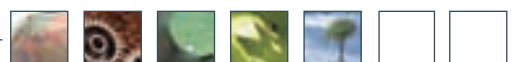
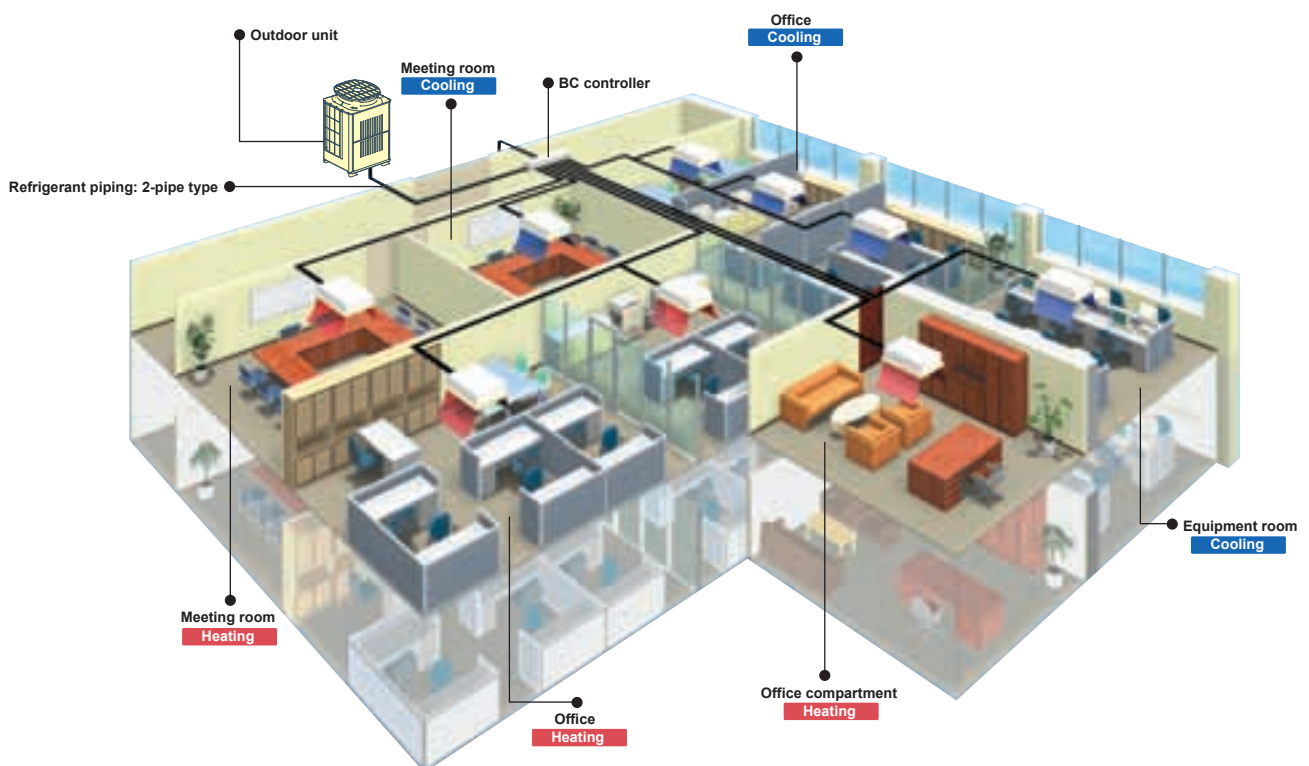


Unique Technology

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?

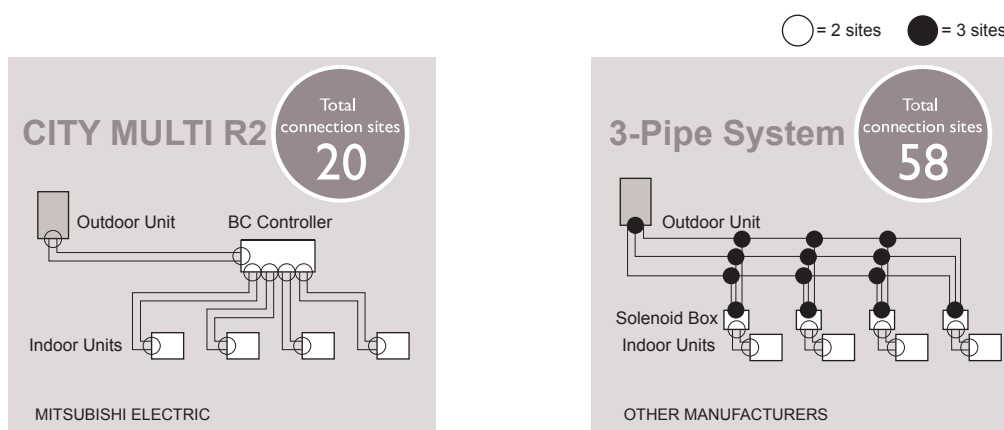
Flexibility and efficiency are key factors when selecting a heat recovery system. For example, while a heat pump system is adequate for a large open-plan office, an office that has a more partitioned structure will require the need to simultaneously heat or cool different sections of the office according 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 up to 20% cost 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



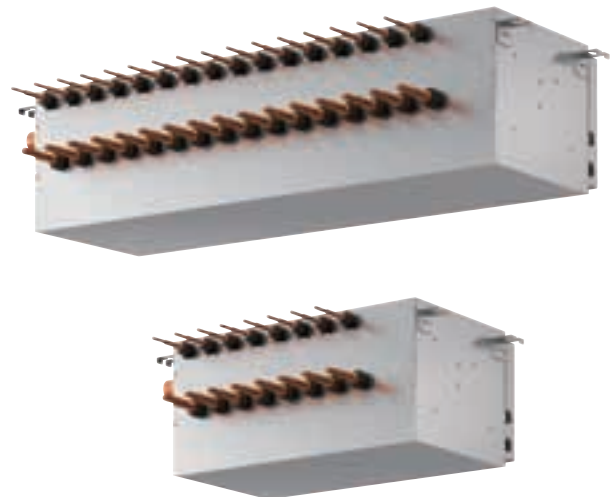
The World's First and Only "2-pipe" System

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

The secret of CITY MULTI heat recovery systems lies in the

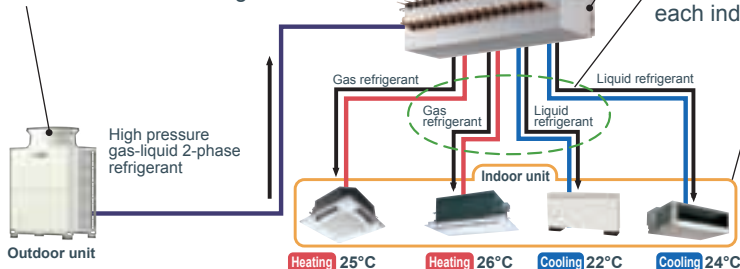
BC Controller

The BC Controller houses a liquid/gas separator, allowing the outdoor unit to deliver a mixture (2-phase) 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.



1

High pressure and low pressure decides the compressor frequency, the mode of heat exchanger, and control the amounts of heat exchange.



2 R2 Refrigerant Circuit

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

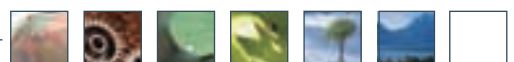
BC Controller divides refrigerant to each indoor unit properly in compliance with the operation mode of each indoor unit.

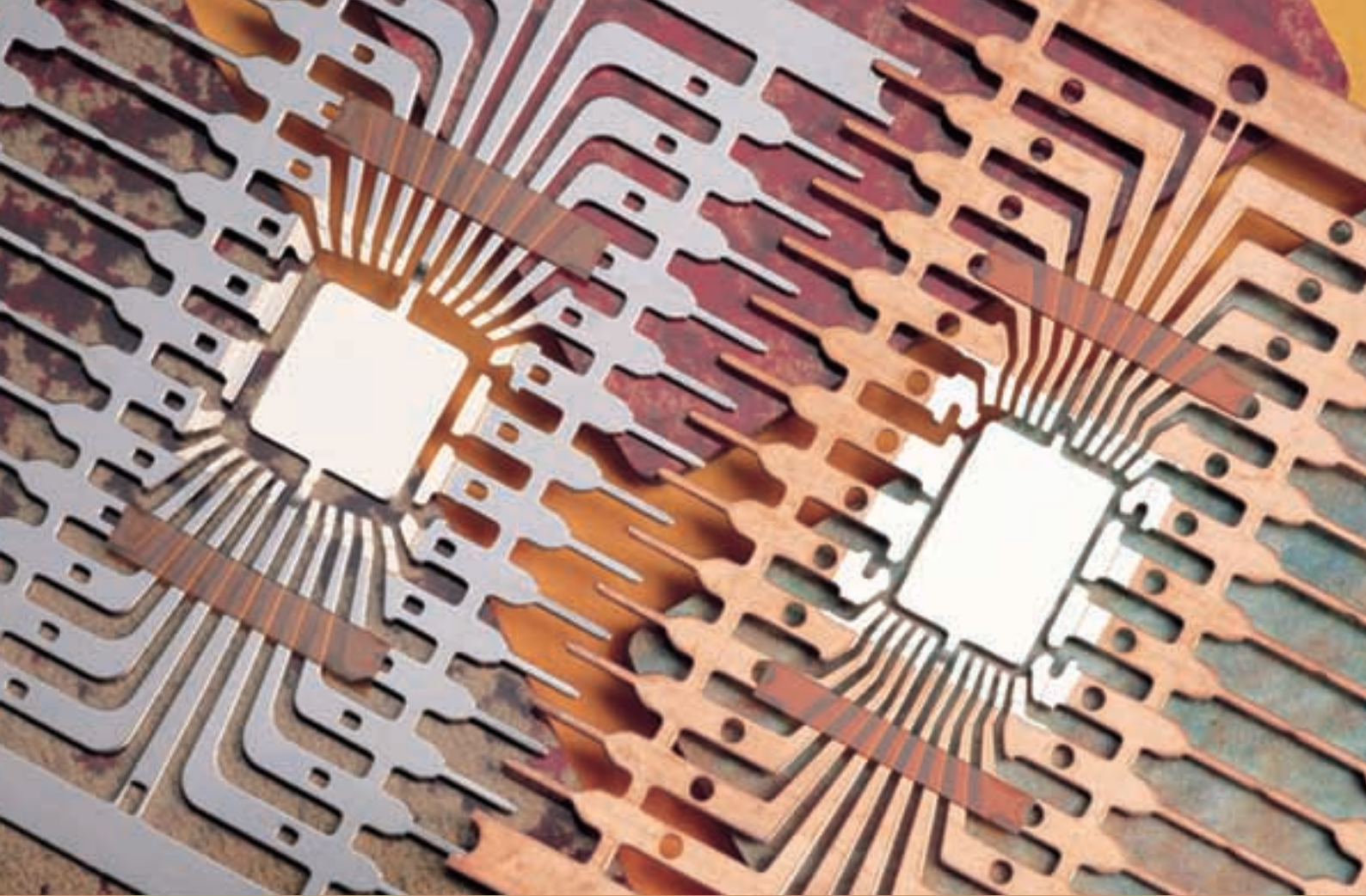
3

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

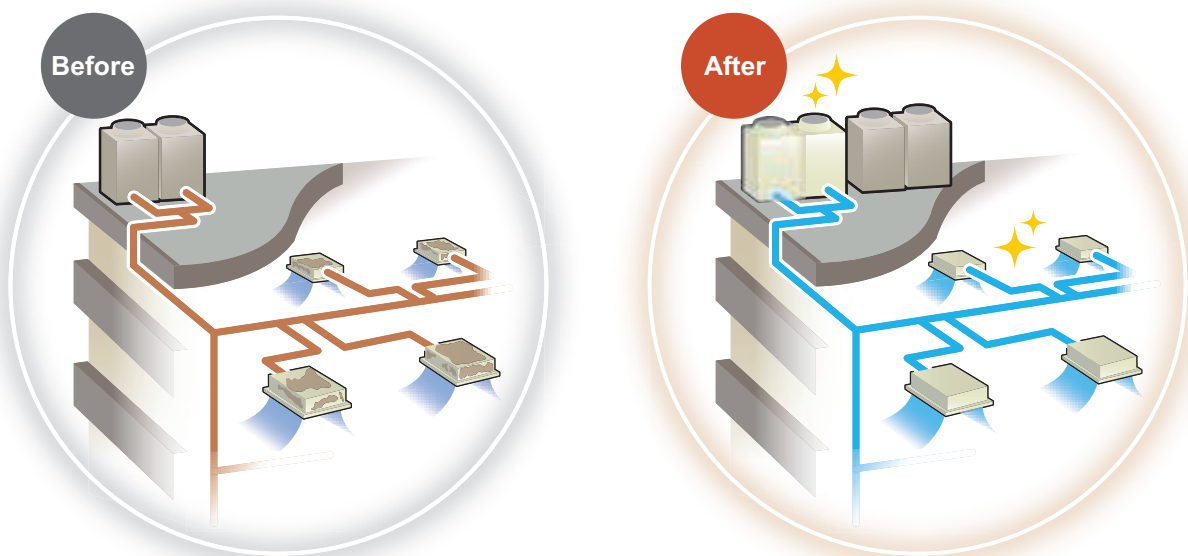
Meet the demand of
--- cooling / heating flexibly.

Heating=gas refrigerant
Cooling=liquid refrigerant





A solution to renewal demands



Why REPLACE MULTI?

Mitsubishi Electric's REPLACE MULTI, with three outstanding features to Reuse, Replace, and Renewal, presents a new solution to the market when replacing air conditioners.

Instead of completely replacing all the units and piping in the system, the launch of Mitsubishi Electric's REPLACE MULTI enables a new option to reuse the existing components in a system.

This relieves owners from constraints they had to consider when replacement of air conditioners takes place; for example, new piping, tearing walls, and business closing during construction.

Reuse

Reusing previously installed equipments

-less resource and waste
-less cost

Replace

Short and quick replacement

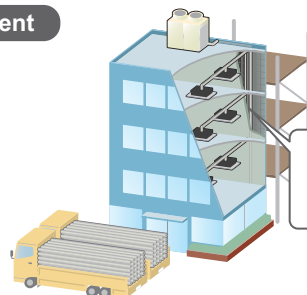
-shorter time
-automatically

Renewal

Renew systems for greater performance

-high energy efficiency
-wider range and possibility

Total system replacement

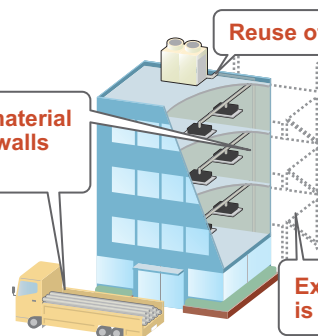


Tearing down walls and ceilings prolongs the construction period

Keeping the effect on business hours to a minimum

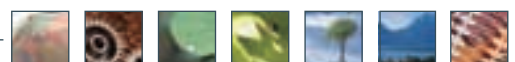
Component replacement with REPLACE MULTI

Reduction in waste material not by tearing down walls and ceilings



Reuse of existing pipework

Exterior construction is not necessary

















Outdoor unit

- **Heat Pump Series - S (P V/YKM)**
- **Heat Pump Series - Y Ecostandard (P YHA)**
- **Heat Pump Series - Y Ecostandard (P YKA)***
- **Heat Pump Series - Y Nominal (P YKB)**
- **Heat Pump Series - Y Seasonal (EP YLM)**
- **Heat Pump Series - Y ZUBADAN (HP YHM)**
- **Water cooled Heat Pump Series - WY (P YHM)**
- **REPLACE MULTI Series - Y Replace Multi (RP YJM)**
- **Heat Recovery Series - R2 Nominal (P YLM)**
- **Heat Recovery Series - R2 Seasonal (EP YLM)**
- **Water Cooled Heat Recovery Series - WR2 (P YHM)**
- **REPLACE MULTI Series - R2 Replace Multi (RP YJM)**
- **BC Controller**

* Coming soon

Wide Selection of Outdoor Units

System	Type	Model name		HP Model	4,5	5	6	8	10
					P112	P125	P140	P200	P250
Heat Pump	Air Cooled	S Series <small>NEW</small> PUMY-P VKM1(-BS) PUMY-P YKM(1)(-BS)			4.5	5	6	8	
		Y Series ECOSTANDARD PUHY-P YHA(-BS)		S				8	10
				L					
		Y Series ECOSTANDARD PUHY-P YSHA(-BS)		S					
				L					
		Y Series NOMINAL <small>NEW</small> PUHY-P YKB-A1(-BS)		S				8	10
				L					
				XL					
		Y Series NOMINAL <small>NEW</small> PUHY-P YSKB-A1(-BS)		S					
				L					
				XL					
		Y Series SEASONAL <small>NEW</small> PUHY-EP YLM-A(-BS)		S				8	10
				L					
				XL					
	Water Cooled	Y Series SEASONAL <small>NEW</small> PUHY-EP YSLM-A(-BS)		S					
				L					
				XL					
Heat Recovery	Water Cooled	ZUBADAN Series PUHY-HP YHM-A PUHY-HP YSHM-A		S				8	10
	Water Cooled	WY series PQHY-P YHM-A PQHY-P YSHM-A						8	10
	Air Cooled	REPLACE MULTI Y series PUHY-RP YJM-B PUHY-RP YSJM-B		S				8	10
		R2 series NOMINAL <small>NEW</small> PURY-P YLM-A1(-BS)		S				8	10
				L					
				XL					
		R2 series NOMINAL <small>NEW</small> PURY-P YSLM-A1(-BS)		S					
				L					
				XL					
	Air Cooled	R2 series SEASONAL <small>NEW</small> PURY-EP YLM-A(-BS)		S				8	10
				L					
				XL					
		R2 series SEASONAL <small>NEW</small> PURY-EP YSLM-A(-BS)		S					
				L					
				XL					
	Water Cooled	WR2 series PQRY-P YHM-A PQRY-P YSHM-A						8	10
	Air Cooled	REPLACE MULTI R2 series PURY-RP YJM-B PURY-RP YSJM-B		1*	L			8	10

*1. Indicates S, L, XL modules *2. The circled numbers in the table indicate the horse power, and the combination of S, L, and XL modules.

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S (Heat Pump) series Y (Heat Pump) series Cooling or Heating



S series — PUMY-P VKM(-BS)
PUMY-P YKM(-BS)

Y series — PUHY-P YHA(-BS) PUHY-P YKB-A1(-BS) PUHY-EP YLM-A(-BS)
PUHY-P YSHA(-BS) PUHY-P YSKB-A1(-BS) PUHY-EP YSLM-A(-BS)

The two-pipe zoned system designed for Heat Pump Operation

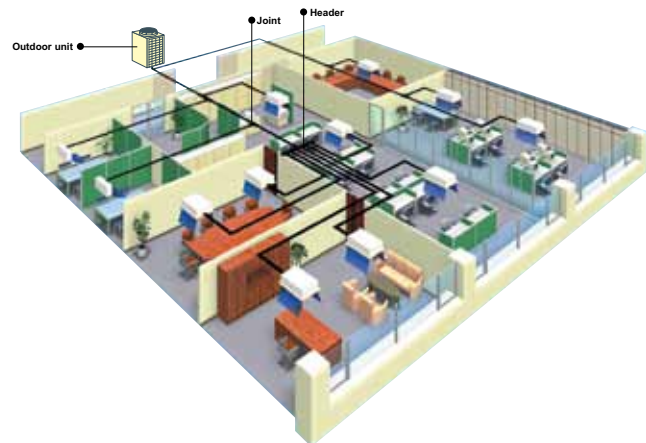
The CITY MULTI Small series (for small applications) and Y series (for large applications) make use of a two-pipe refrigerant system, which allows for system changeover from cooling to heating, ensuring that a constant indoor climate is maintained in all zones. The compact outdoor unit utilizes R410A 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 12 (Small series) or 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.

Small Offices (S series)



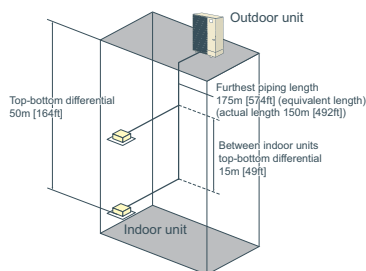
Large Offices (Y series)



System Pipe Lengths

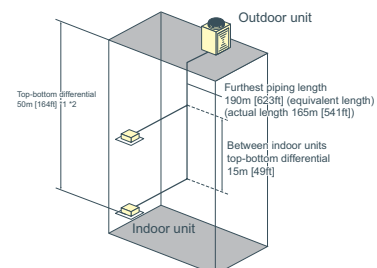
[4.5-6HP (S series)]

Refrigerant Piping Lengths	Maximum meters [Feet]
Total length.....	300 [984]
Maximum allowable length.....	150 (175 equivalent) [492(574)]
Farthest indoor from first branch.....	30 [98]
Vertical differentials between units	
Indoor/outdoor (outdoor higher).....	50 [164]
Indoor/outdoor (outdoor lower).....	40 [131]
Indoor/indoor.....	15 [49]



[8-50HP (Y series)] [8-36HP (High COP Y series)]

Refrigerant Piping Lengths	Maximum meters [Feet]
Total length.....	1,000 [3,280]
Maximum allowable length.....	165 (190 equivalent) [541(623)]
Farthest indoor from first branch.....	40 [131]
Vertical differentials between units	
Indoor/outdoor (outdoor higher).....	50 [164]*1
Indoor/outdoor (outdoor lower).....	40 [131]*1
Indoor/indoor.....	15 [49]



*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.

*4 30m [98ft] 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

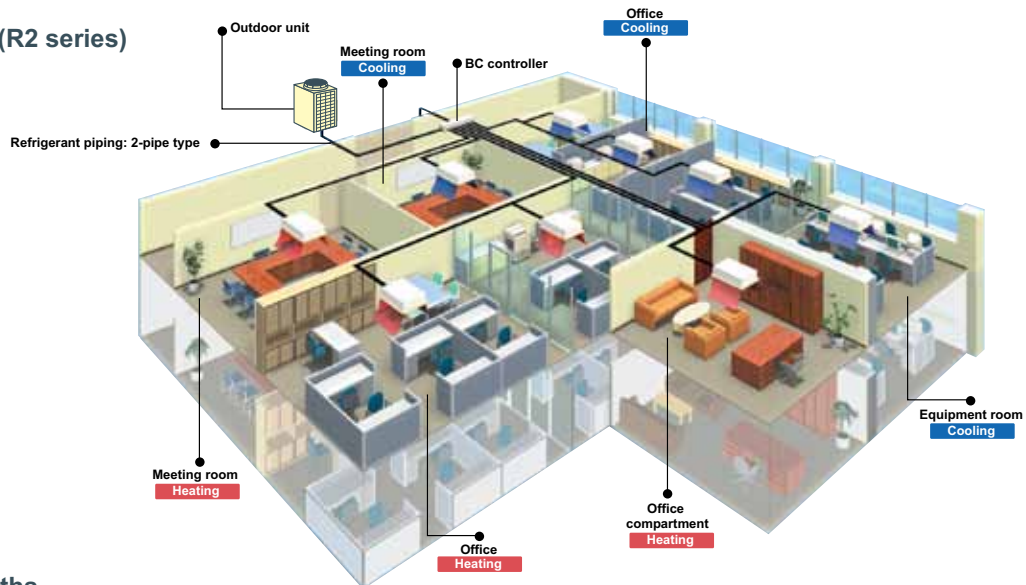
R2 series — **PURY-P YLM-A1(-BS)**
PURY-P YSLM-A1(-BS) **PURY-EP YLM-A(-BS)**
PURY-EP YSLM-A(-BS)

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 virtually no energy wasted by being expelled outdoors. Depending on capacity, up to 50 indoor units can be connected with up to 150% connected capacity.

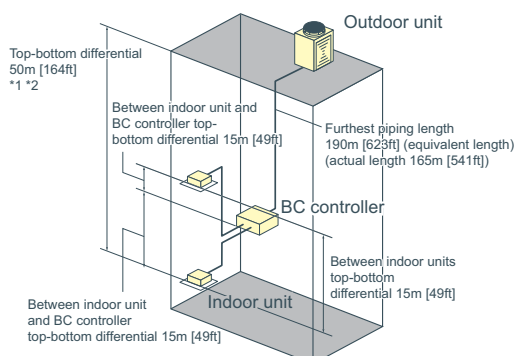
Installation image (R2 series)



System Pipe Lengths

[8-36HP (R2 series)]
 [8-28HP (High COP R2 series)]

Refrigerant Piping Lengths	Maximum meters [Feet]
Total length.....	550-800 [1,804-2,624]
(P600,P650 models only; Refer to the Data book for other models.)	
Maximum allowable length.....	165 (190equivalent) [541(623)]
Maximum length between outdoor and single/main BC controller.....	
110 [360]	
*Maximum total length is dependent upon the distance between the outdoor unit and the single/main BC Controller.	
Maximum length between single/main BC controller and indoor.....	
40-60 [131-196]	
Vertical differentials between units	Maximum meters [Feet]
Indoor/outdoor (outdoor higher).....	50 [164]*2
Indoor/outdoor (outdoor lower).....	40 [131]*2
Indoor/BC controller (single/main)....	15 [49]
*Maximum length between single/main BC controller and indoor is dependent upon the vertical differential between the single/main BC controller and the indoor unit.	
Indoor/indoor.....	15 [49]
Main BC Controller/Sub BC Controller....	15 [49]



*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 Industry Leading Weight Saving

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.

10HP outdoor unit

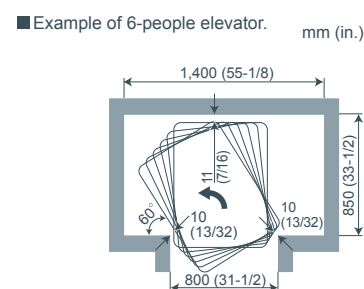
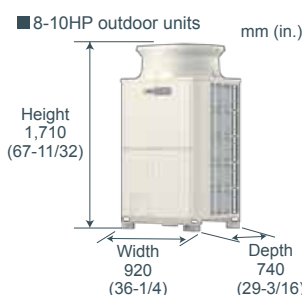
233kg
PUHY-P250YGM-A

25kg
reduction in weight

208kg
PUHY-EP200YLM-A

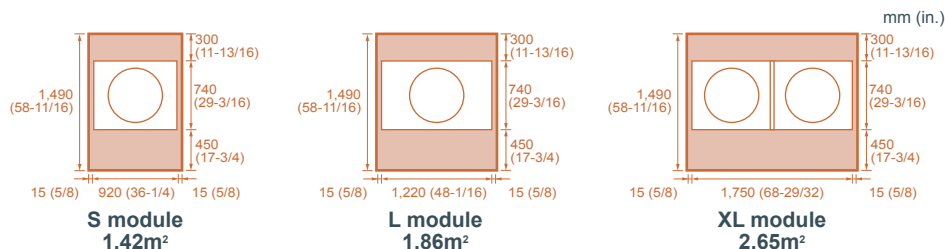
Industry Leading Space Saving

The downsized outdoor unit can be transported through a 800 mm wide door.



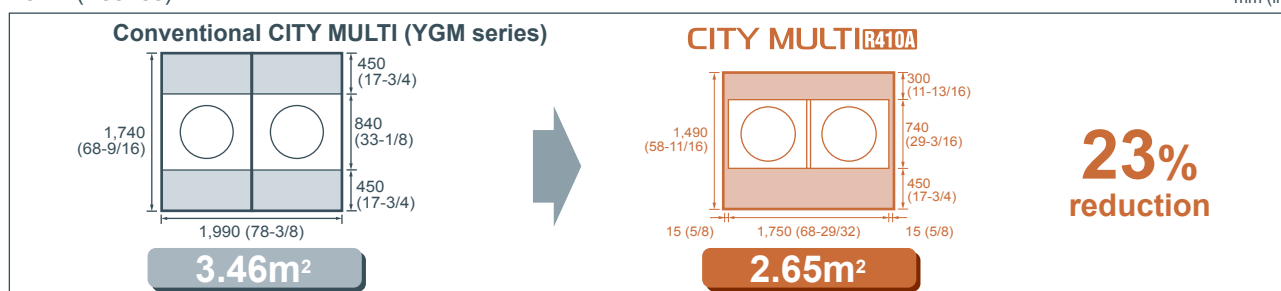
Effective Use of Space

The new models have a smaller foot print and service space requirement than previous models.

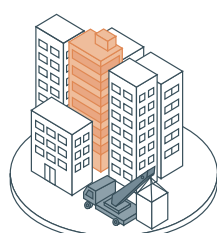


18HP (Yseries)

mm (in.)

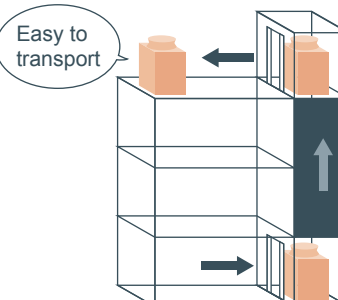


The unit can easily be transported even into slender buildings.



The narrow space between buildings makes it difficult to use a crane.

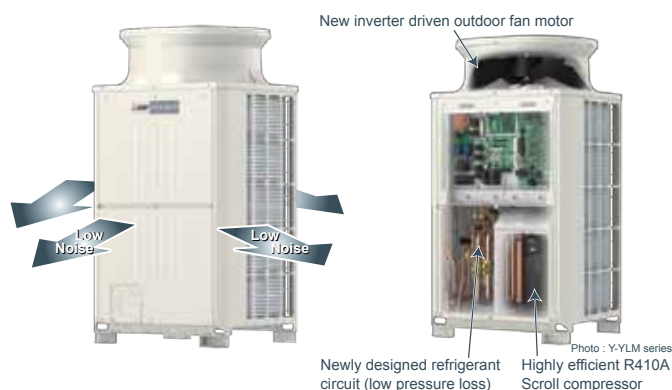
CITY MULTI makes it easy.



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.



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

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.

Conventional		CITY MULTI R410A	
			
Gas piping	Liquid piping	Gas piping	Liquid piping
ø28.58 (ø1-1/8)	ø12.7 (ø1/2)	ø22.2 (ø7/8)	ø9.52 (ø3/8)

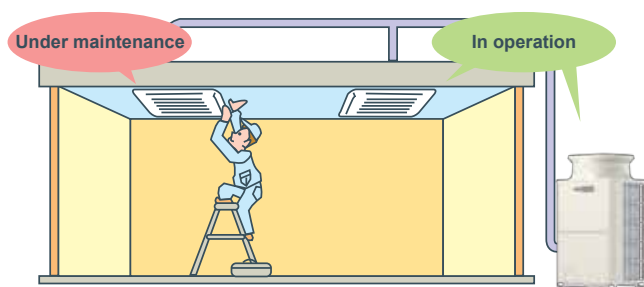
Based on 10HP model

Easy Maintenance

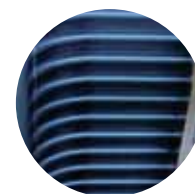
Even when one of the indoor units in the system is under maintenance, the other indoor unit can still operate.

* Not applicable to all situations.

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



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 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.

S (Heat Pump) series



Cooling or Heating

PUMY P200 YKM(-BS)

- ▶ 22.4 kW (cooling)
- ▶ 25.0 kW (heating)
- ▶ COP 4.28
- ▶ EER 3.70
- ▶ H.I.C. Circuit (Heat Inter Charger)
- ▶ Connects up to 12 indoor units
- ▶ Connectable to Residential indoor units by LEV KIT

Capacity and performance of VRF system in a multi-split size

The new PUMY-P200YKM (8HP) is the perfect solution for those applications which need high efficiency, capacity and maximum installation flexibility. All these features are available with minimum footprint and space.

Maximum Efficiency

With new PUMY P200YKM (8HP) is possible to achieve high operating efficiency and installation flexibility. The adoption of sub-cooling circuit Heat Inter Charge (HIC), the new extended heat exchange coil and Replace Technology are only some of technology innovations introduced in Small Y series of outdoor units and that allow new PUMY P200 to achieve higher COP (heating) and EER (cooling).

High capacity with minimum footprint

New PUMY 8HP is able to supply capacity so far reserved to bigger and most powerful VRF systems. The SMALL Y outdoor units are in fact characterized by compact chassis ideal for installation in small spaces.





VRF technology with residential series design

New outdoor unit SMALL Y allows maximum installation flexibility and design at the same time due to the possibility to connect residential indoor units (by LEV KIT). This represents a big added value in those applications where elegance and design are key drivers.

PUMY-P200 YKM – Piping Design

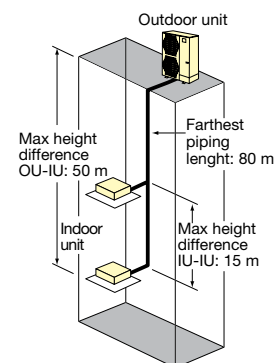
EXTENDED GEOMETRICAL LIMITS

Total piping length	150 m max.
Farthest piping length	80 m max.
Farthest indoor unit from the first joint	30 m max.

PERMISSIBLE HEIGHT DIFFERENCE

Max height difference Outdoor unit-Indoor unit (with Outdoor unit set higher than indoor unit)	50 ^{*1} m max
Max height difference Indoor unit-Indoor unit	15 m max.

^{*1} 40 m max in case of outdoor unit set lower than indoor unit





Cooling or Heating

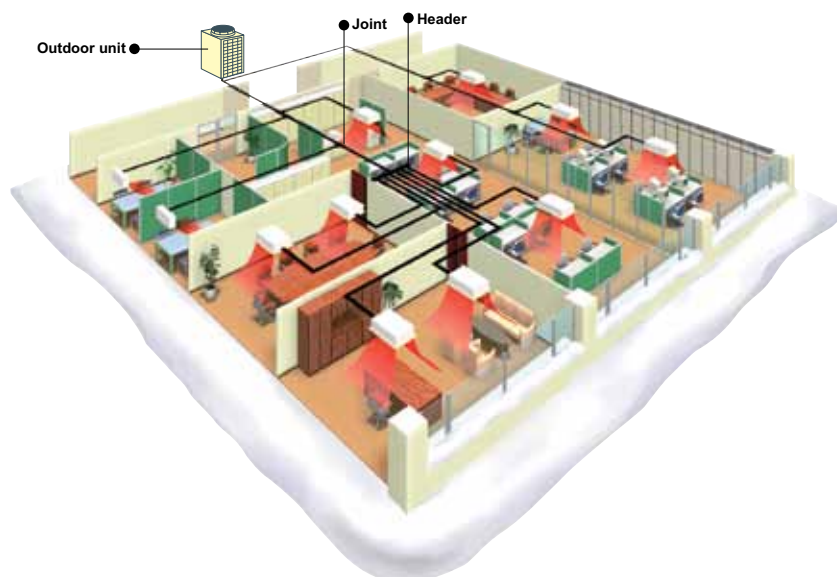
ZUBADAN series — [PUHY-HP YHM-A(-BS)
PUHY-HP YSHM-A(-BS)]

Bringing a year round comfort solutions to extreme climates

CITY MULTI ZUBADAN series combines the ultimate in application flexibility and powerful cooling and heating capabilities to deliver precise comfort even in the coldest days of the year down to -25°C.

The technology behind this is a Flash Injection circuit which provides optimum amount of refrigerant to the system via a compressor through a specially designed injection port to ensure a particularly stable operation. With this, ZUBADAN can provide a full heating performance even at -15°C and continuous heating for up to 250 minutes in one continuous cycle, ensuring a phenomenal heating performance at low temperatures.

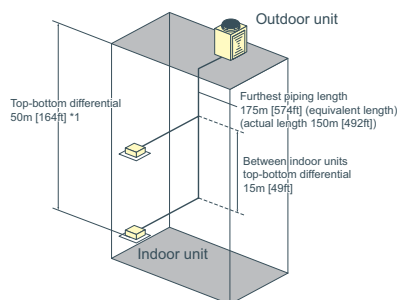
Installation image



System Pipe Lengths

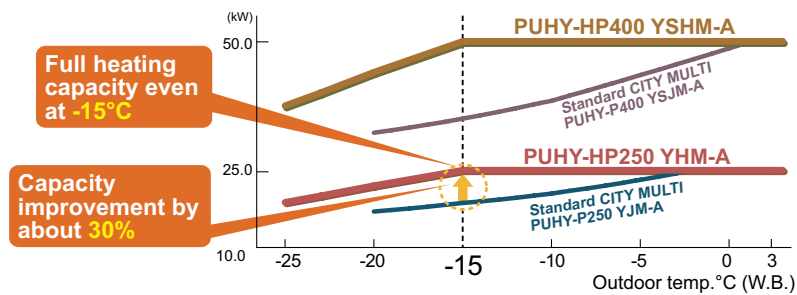
[8-10HP]

Refrigerant Piping Lengths	Maximum meters [Feet]
Total length.....	300 [984]
Maximum allowable length.....	150 (175equivalent) [492 (574)]
Farthest indoor from first branch....	40 [131]
Vertical differentials between units	
Indoor/outdoor (outdoor higher).....	50 [164]
Indoor/outdoor (outdoor lower).....	40 [131]
Indoor/indoor.....	15 [49]



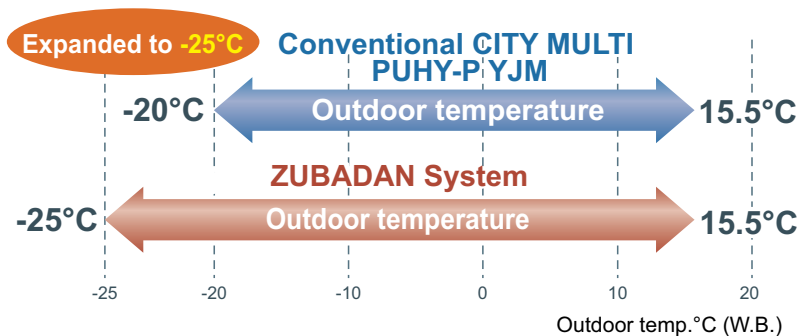
*1 When the outdoor unit is installed below the indoor unit, top-bottom differential is 40m [131 ft].

Stable Heating Performance even at -15°C

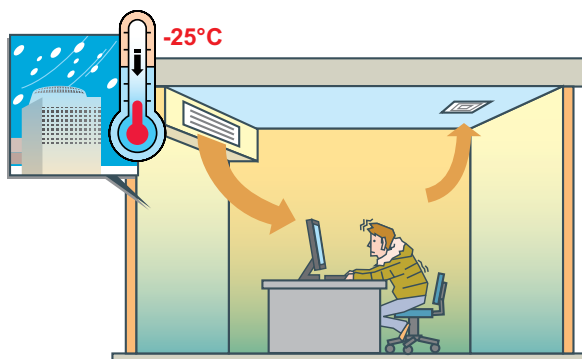


Using an industry first 'Flash-injection Circuit', the ZUBADAN System is able to provide FULL heating performance in ambient temperatures as low as -15°C.

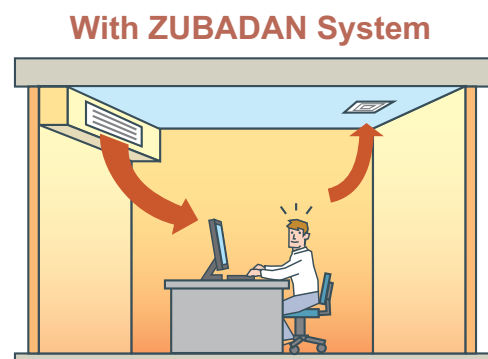
Expanded Heating Operation down to -25°C



...furthermore, from a previous LOWEST operating ambient temperature of -20°C, the ZUBADAN System pushes the boundaries of technology to give heating in ambient temperatures as low as -25°C.



Previously, heating performance drops off when the temperature falls below -20°C!



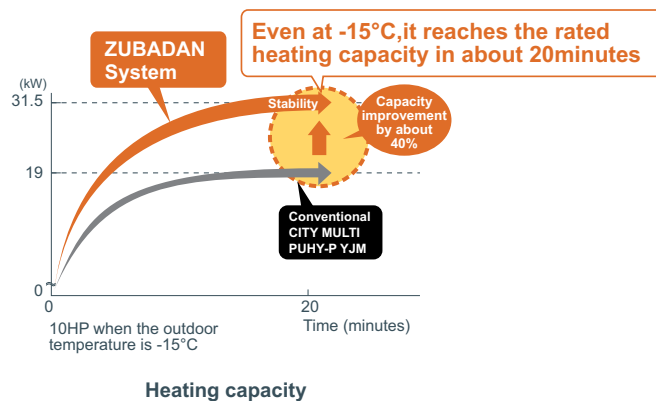
...however, even at such temperatures, the new ZUBADAN System has no trouble keeping the occupants nice and toasty!

High Static Pressure Setting

High Static Pressure Setting up to 60Pa is available. With our new ZUBADAN model, high static pressure setting up to 60Pa is available by setting the dip switch (0Pa at factory setting) making it ideal and flexible for any type of application.

Shorter Warm-up in about 20 Min.

With its new improved startup performance, the ZUBADAN system achieves full heating capacity even when outdoor temperature is as low as -15°C . Heating capacity, about 20 minutes after startup is improved by 40% compared to the conventional model; ensuring occupants an immediate comfortable air solution.



Reliable and Long Product Life Cycle

Backup Function (HP400 and HP500 models)

ZUBADAN system ensures an exceptionally high level of reliability by utilizing a new backup function, which can be easily operated in the case of a malfunction from an indoor unit remote controller.



Rotation Function (HP400 and HP500 models)

Running outdoor units alternatively using its newly developed 'Rotation Function', the system is able to ensure an optimum product life cycle for both of its component units.



Maximum Stable Operation

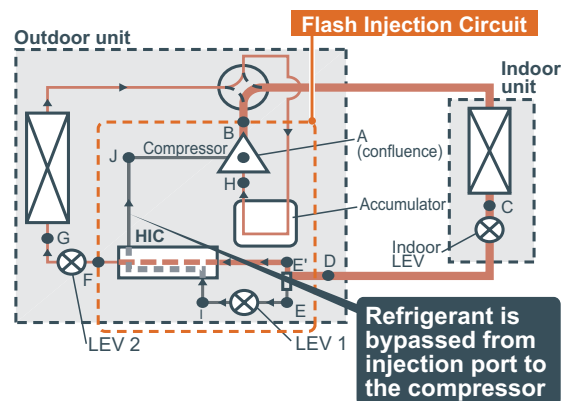
By utilizing our advanced Flash Injection Circuit, the system can not only provide continuous heating for up to 250 minutes in one continuous cycle, but also significantly lessens defrost time to give an exceptionally stable heating operation.

Heating up to
250 min. straight

Reduced
Defrosting time

Startup Comfort

One of the key factors of the units newly designed Flash Injection Circuit is that the optimal amount of refrigerant can be provided to the system via the compressor through a specially designed injection port to ensure a particularly stable operation. In simple terms, the system allows a quick startup time and continuous heating; even in low ambient conditions.



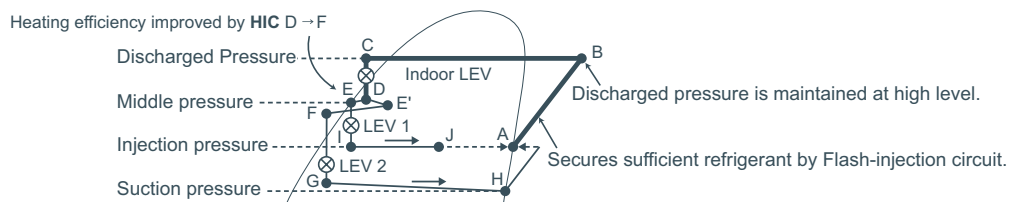
Note: **Heat Interchange Circuit (HIC)**

Heating efficiency is improved by enhancing the recollection of heat at the outdoor unit with the low temperature refrigerant from the HIC.

Constant Comfort

With its new highly effective defrost feature (which prevents automatic defrosting when it is not required), the ZUBADAN System can deliver conditioned heating operation up to 250 minutes in one continuous cycle!

Heating capacity is maintained by the Flash-injection circuit.



[Pressure Enthalpy diagram showing HIC]

Water Cooled Series



Cooling or Heating

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

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

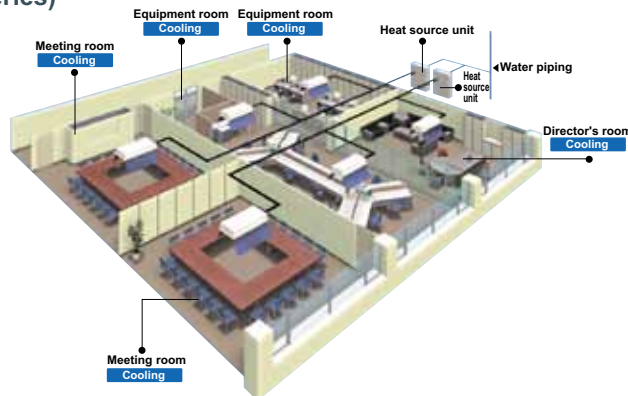
[WY(Heat Pump) series]

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, up to 17 to 50 indoor units can be connected to a single condensing unit with individualized and/or centralized 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)



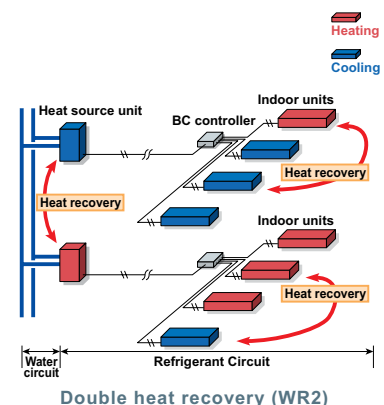
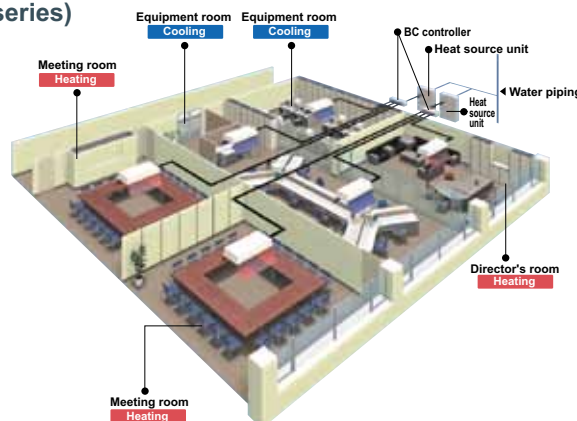
[WR2(Heat Recovery) series]

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.

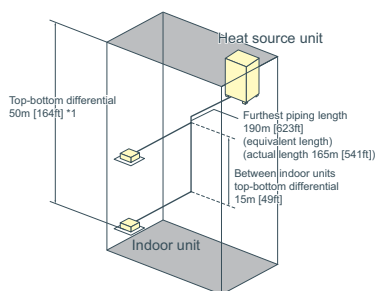
Installation image (WR2 series)



System Pipe Lengths

[8-36HP (WY series)]

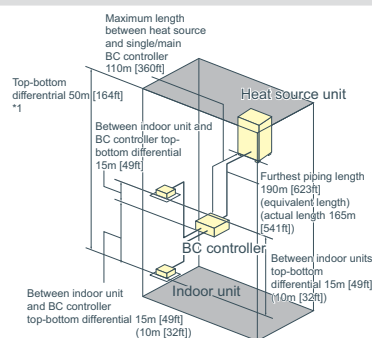
Refrigerant Piping Lengths		Maximum meters [Feet]
Total length (8-12HP)	.....	300 [984]
Total length (16-36HP)	.....	500 [1,640]
Maximum allowable length	.....	165 (190equivalent) [541 (623)]
Farthest indoor from first branch	.....	40 [131]
Vertical differentials between units		Maximum meters [Feet]
Indoor/heat source (heat source higher)	.....	50 [164]
Indoor/heat source (heat source lower)	.....	40 [131]
Indoor/indoor	.....	15 [49]



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

[8-24HP (WR2 series)]

Refrigerant Piping Lengths		Maximum meters [Feet]
Total length (8-12HP)	.....	300-550 [984-1,804]
Total length (16-24HP)	.....	500-750 [1,640-2,460]
Maximum allowable length	.....	165 (190equivalent) [541 (623)]
Maximum length between heat source and single/main BC controller	.....	110 [360]
*Maximum total length is dependent upon the distance between the outdoor unit and the single/main BC Controller.		
Maximum length between single/main BC controller and indoor	.....	40-60 [131-196]
Vertical differentials between units		Maximum meters [Feet]
Indoor/ heat source (heat source higher)	.....	50 [164]
Indoor/ heat source (heat source lower)	.....	40 [131]
Indoor/BC controller (single/main)	.....	15 [49]
Indoor/indoor	.....	15 (10) [49 (32)]
Main BC Controller/Sub BC Controller	.....	15 (10) [49 (32)]



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

COP comparison (energy efficiency)

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

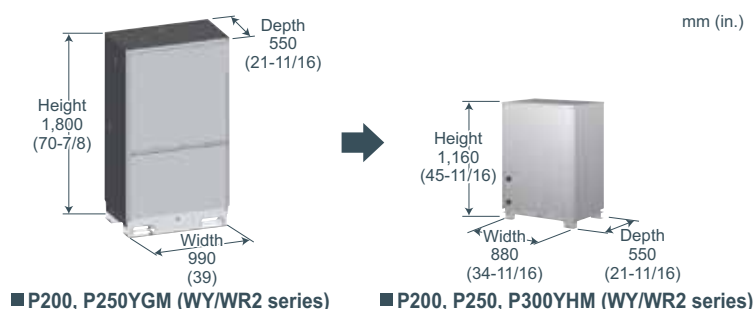
COP comparison

		HP	8	10	12	16	18	20	22	24	26	28	30	32	34	36
PQHY	YGM	Cooling	4.68	4.71	-	3.96	-	3.72	-	-	-	-	-	-	-	-
		Heating	4.68	4.71	-	3.96	-	3.72	-	-	-	-	-	-	-	-
	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
		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
PQRY	YGM	Cooling	4.68	4.71	-	3.96	-	3.72	-	-	-	-	-	-	-	-
		Heating	5.33	5.43	-	4.54	-	4.63	-	-	-	-	-	-	-	-
	YHM	Cooling	5.65	5.08	4.50	5.40	5.03	4.84	4.63	4.41	-	-	-	-	-	-
		Heating	6.06	5.43	4.60	5.78	5.37	5.22	4.70	4.46	-	-	-	-	-	-

Compact design

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

*8/10/12HP



■ P200, P250YGM (WY/WR2 series)

■ P200, P250, P300YHM (WY/WR2 series)

Weight saving

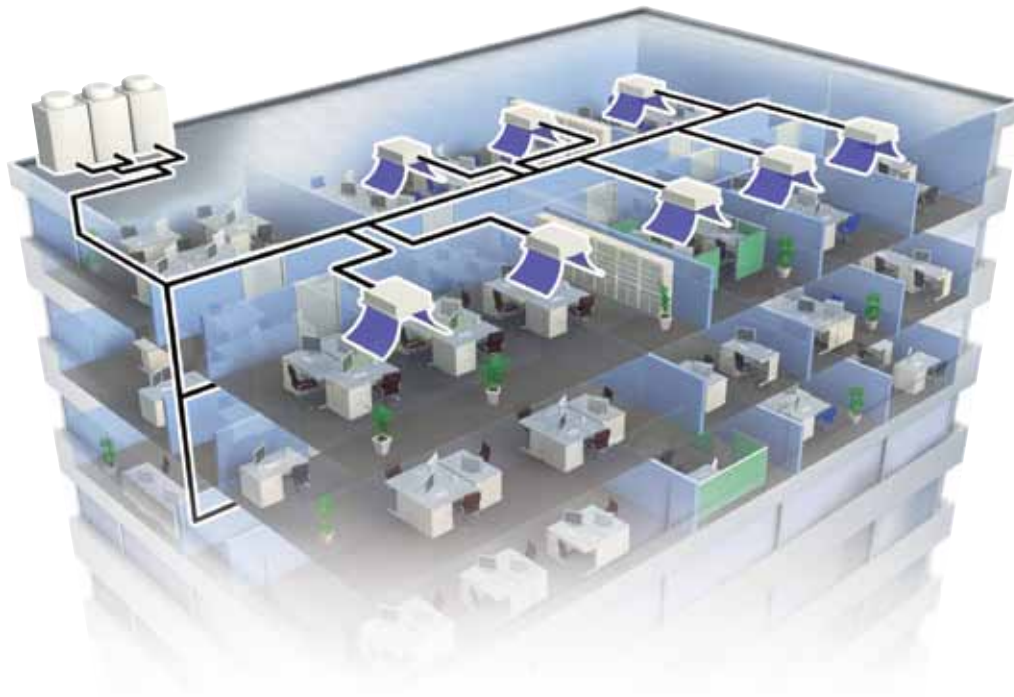
The reduction in weight leads to easy transportation and installation.

Weight comparison

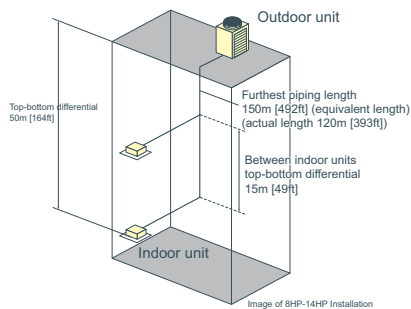
		HP	8	10	12	16	18	20	22	24	26	28	30	32	34	36
PQHY	YGM		272	275	-	452	-	456	-	-	-	-	-	-	-	-
	YHM		195	195	195	390	390	390	390	390	585	585	585	585	585	585
PQRY	YGM		263	266	-	440	-	444	-	-	-	-	-	-	-	-
	YHM		181	181	181	362	362	362	362	362	-	-	-	-	-	-

unit : kg

REPLACE MULTI series



Piping length

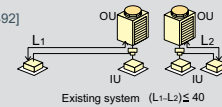


[8-22HP (Y series)]

Refrigerant Piping Lengths Maximum meters [Feet]

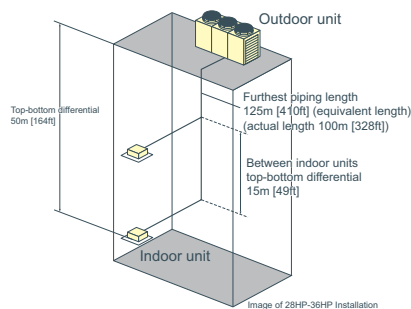
Total length..... 300 [984]
Maximum allowable length..... 120 [393]
equivalent 150 [492]

Farthest indoor from first branch..... 40 [131]*
*REPLACE MULTI can combine an existing multiple system if the length difference of farthest indoor from first branch is no larger than 40m.



Vertical differentials between units Maximum meters [Feet]

Indoor/outdoor (outdoor higher)..... 50 [164]
Indoor/outdoor (outdoor lower)..... 40 [131]
Indoor/indoor 15 [49]
Outdoor/outdoor*..... 0.1 [0.3]
*For models PUHY-RP400-RP550YSJM-A

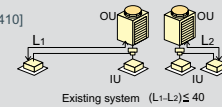


[24-36HP (Y series)]

Refrigerant Piping Lengths Maximum meters [Feet]

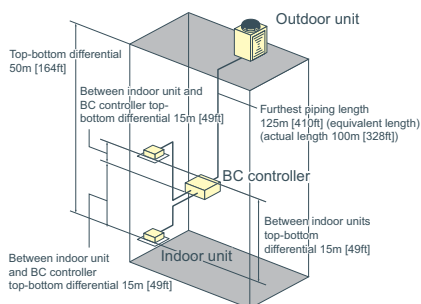
Total length..... 250 [820]
Maximum allowable length..... 100 [328]
equivalent 125 [410]

Farthest indoor from first branch..... 40 [131]*
*REPLACE MULTI can combine an existing multiple system if the length difference of farthest indoor from first branch is no larger than 40m.



Vertical differentials between units Maximum meters [Feet]

Indoor/outdoor (outdoor higher)..... 50 [164]
Indoor/outdoor (outdoor lower)..... 40 [131]
Indoor/indoor 15 [49]
Outdoor/outdoor*..... 0.1 [0.3]
*For models PUHY-RP600-RP900YSJM-A



[8-12HP (R2 series)]

Refrigerant Piping Lengths Maximum meters [Feet]

Total length..... 220 [721]
Maximum allowable length..... 100 (90) [328 (295)]*
equivalent 125 (115) [410 (377)] *

Farthest indoor from BC controller..... 30 [98]
*Values in () is applied when indoor total capacity exceeds 130% of outdoor unit capacity

Vertical differentials between units Maximum meters [Feet]

Indoor/outdoor (outdoor higher)..... 50 [164]
Indoor/outdoor (outdoor lower) 40 [131]
Indoor/BC controller (single/main) 15 (10) [49 (32)]*

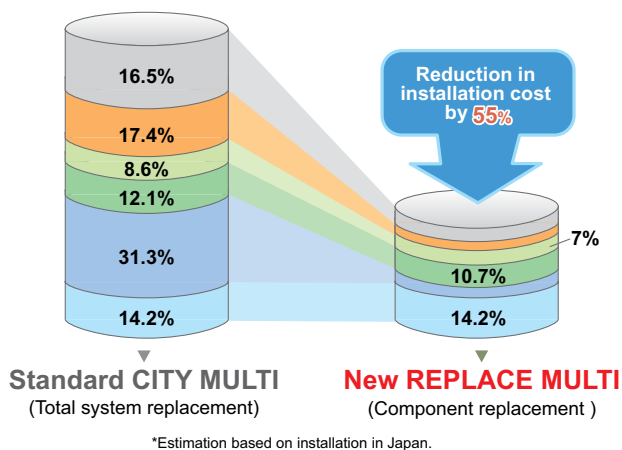
*Maximum length between single/main BC controller and indoor is dependent upon the vertical differential between the single/main BC controller and the indoor unit.

Indoor/indoor 15 (10) [49 (32)]*

Main BC Controller/Sub BC Controller... 15 (10) [49 (32)]*

*Values in () is applied when indoor total capacity exceeds 130% of outdoor unit capacity

Cost



Low renewal cost (estimation)

Reduction in waste and time also results in minimized construction work cost by approximately **55%** compared to the conventional total system replacement. (Estimated based on installation in Japan)

The major cutback achieved here is the pipe work costs by reusing existing piping which generally involves demolitions of exterior and interior walls, and rooftops. Moreover, these feature add up to not only less labor, materials, lower operating costs, but also reduce costs for waste disposal.

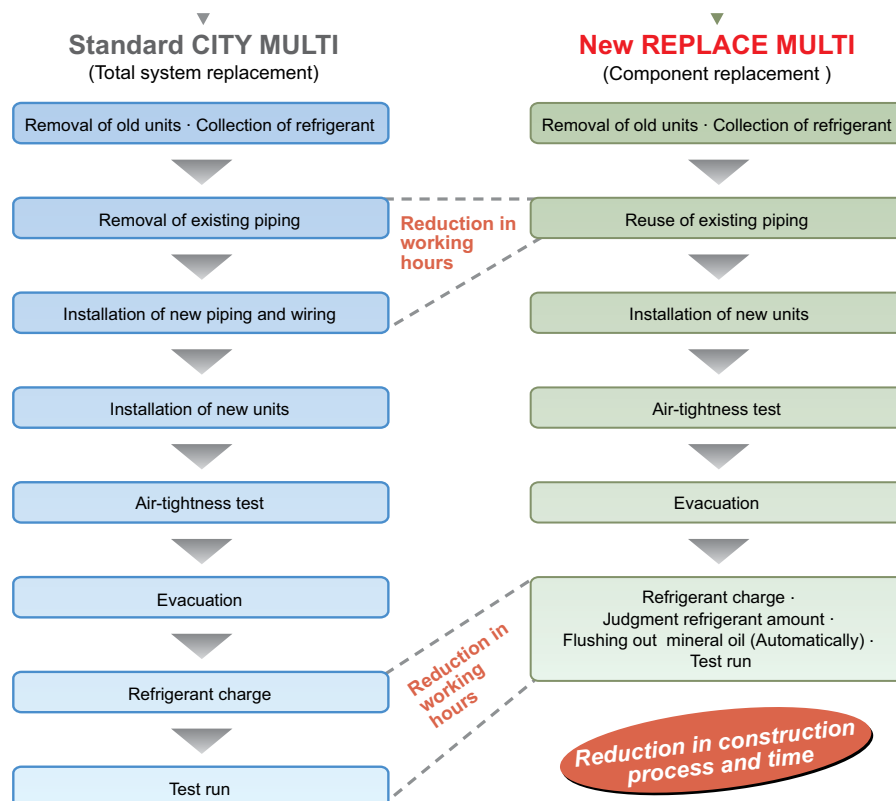
- Overhead costs for construction
- Costs for construction work
- Costs for removal work
- Costs for electrical work
- Costs for piping work
- Costs for installation work

Time

Short and quick construction process and time

Compared to the installation process and time to install a complete new system, REPLACE MULTI offers shorter and quicker installation.

The key cause of this is because with REPLACE MULTI, without any use of special kit, existing piping can be reused and works at rooftop or walls for new piping are not required. This results in reduced installation time and system downtime which is an attractive factor to minimize the effect on business working hours.



Technology

Patent Technology

*Patented or unpatented varies depending on the countries.

Mineral oil collection

At the core of the new innovative REPLACE MULTI technology to reuse existing piping is the mineral oil collection to clean out the minerals in previously installed pipe work.

Mineral oil collection with Mitsubishi Electric's unique flushing operation is carried out while the new refrigerant is being charged (if the length or diameter of the refrigerant pipe is unknown).

With this advance technology, the cleaning process is completed quickly, thoroughly and automatically to keep the air environment comfortable.

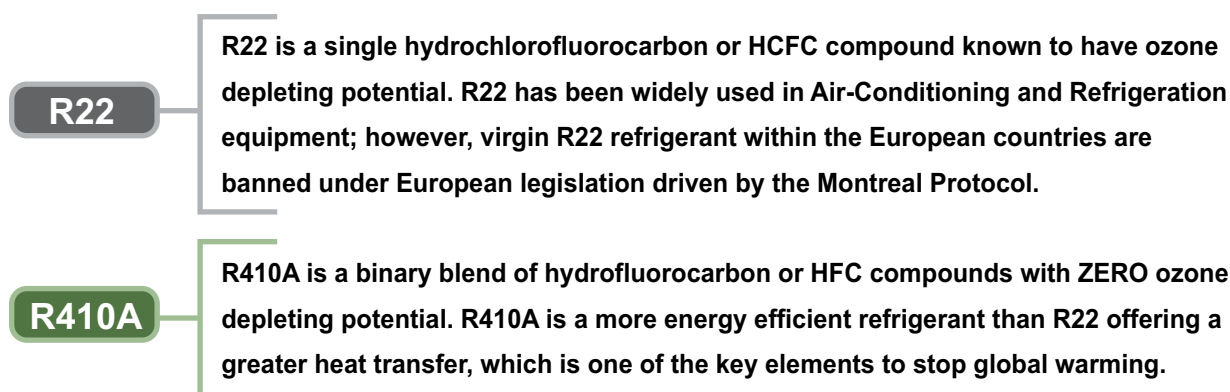
QUICK &

AUTOMATIC →

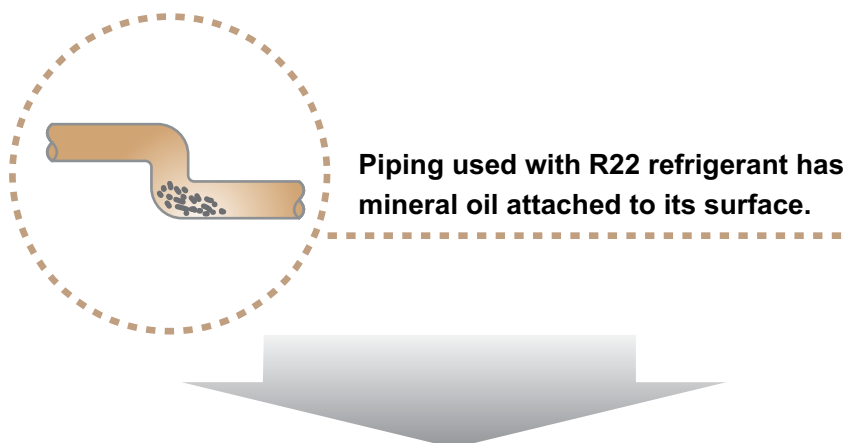
Quick and automatic mineral oil collection with simple step

COMFORT →

Comfort not interrupted during the process



Why mineral oil collection is required.



Refrigerant piping used for R22 requires treatment before it is reused.

Mineral oil in the piping must be removed or a new piping needs to be installed.

If the mineral oil in new refrigerant R410A refrigerant and R22 refrigerant are mixed, there is a possibility of sludge due to deterioration. When this occurs, mineral oil may not dissolve in the R410A refrigerant and lead to problems in compressor and LEV clogging.

Quick & Automatic

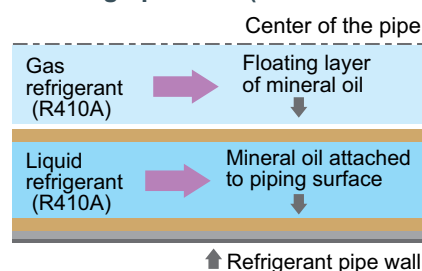
Facts

Quick and automatic mineral oil collection	Mineral oil can be collected in approximately 85~105 minutes. * The time varies depending on the pipe length and temperature conditions. Y series Max.120 minutes(cooling) / Max.140 minutes(heating) R2 series Max.180 minutes(cooling)
Condition of mineral oil collection (Outdoor temperature)	REPLACE MULTI can clean pipe in winter season. Y series -10°C ~ 45°C R2 series - 5 °C ~ 45°C
Density of R410A refrigerant	R410A refrigerant < R22 refrigerant R410A gas refrigerant < mineral oil < R410A liquid refrigerant
Speed	R410A liquid refrigerant < R410A gas refrigerant

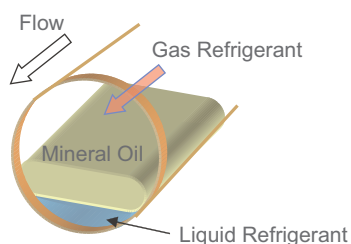
Principle of mineral oil collection

Mineral oil in R22 system is not soluble to the R410 refrigerant. When R410A two phase refrigerant flows through a pipework, shear force among the mineral oil and R410A refrigerant pushes out and strip off from the mineral oil attached to the piping surface. The mineral oil floats on the surface between gas and liquid refrigerant.

Flushing operation (sectional view)



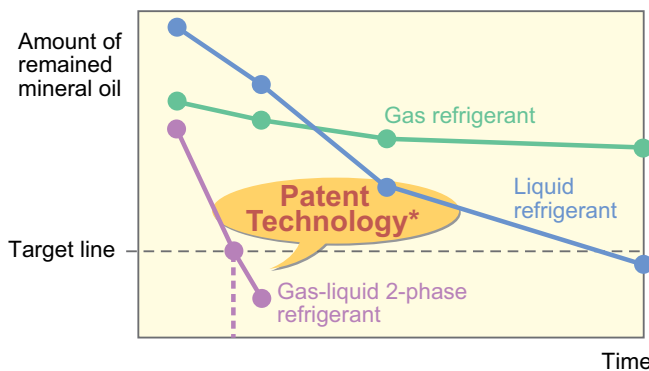
Flushing operation



If the refrigerant is 2 phase, liquid refrigerant speed is accelerated by the gas refrigerant flowing at high-speed in the center part of the pipeworks. With this acceleration, the mineral oil floating at the surface of liquid refrigerant also increases its speed and mineral oil collection can be finished smoothly and quickly in the existing refrigerant piping.

The amount of time required for mineral oil collection differs by the condition of refrigerant. The most effective and quickest result can be expected when 2 phase refrigerant is used.

Mineral oil collection speed comparison by refrigerant type



This mineral oil collection with 2 phase refrigerant is a **patented technology*** of Mitsubishi Electric and was awarded by the Japanese Institute and Innovation in 2007.

*Patented or unpatented varies depending on the countries.

Automatic refrigerant charge

Amount of refrigerant required for the system is automatically determined and charged after the mineral oil collection is completed.

Comfort

Automatically performed by just setting the dip switch, mineral oil collection can even be performed without turning off the air conditioners. Therefore, it can maintain a comfortable indoor air environment, cooling or heating operation with Y series outdoor unit, and cooling operation with R2 series.

*Only cooling operation with R2 series

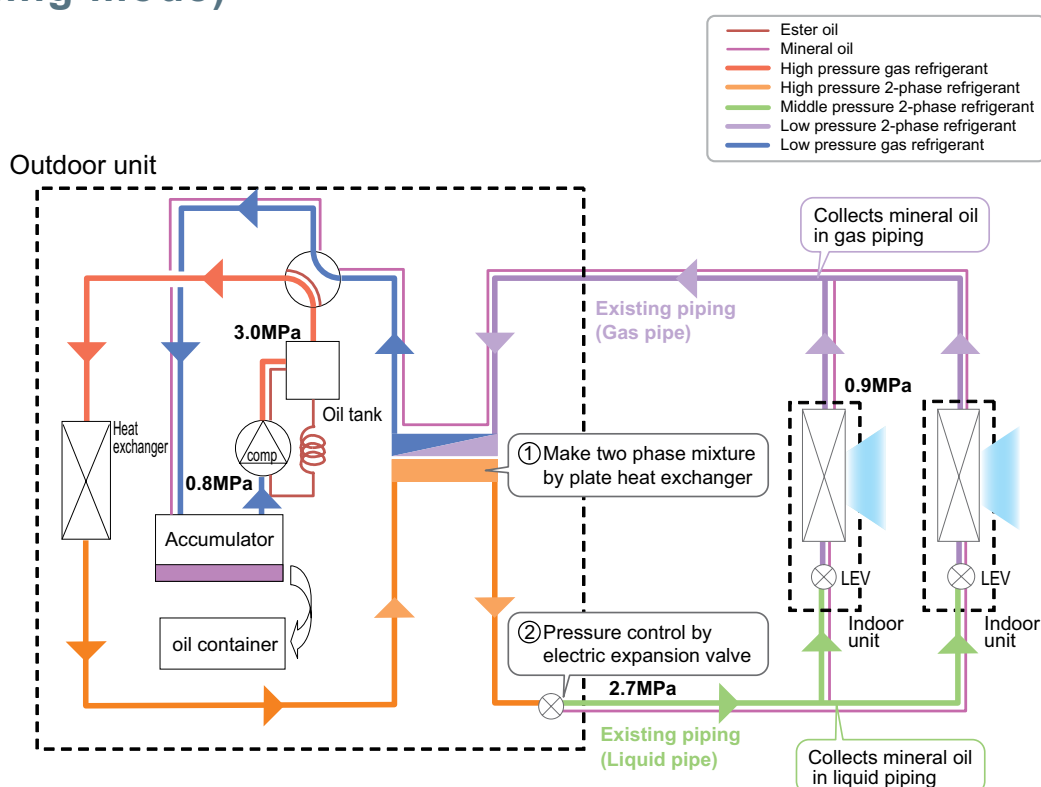
Mineral oil collection flow

The following shows an overview of the mineral oil collection flow along with the refrigerant flow. During mineral oil collection, with Heat Pump outdoor unit, cooling or heating operation is available, and with Heat Recovery outdoor unit, only cooling operation is available.

Mineral oil in the existing piping is collected along with the new refrigerant flow. At the end of each flow, the refrigerant returns to outdoor unit with mineral oil which is collected in an accumulator and automatically removed to an oil container in the outdoor unit.

Example

Heat pump Y series outdoor unit (Cooling mode)



First, high pressure gas from the compressor is condensed to 2-phase refrigerant by plate heat exchanger ① and reduces its pressure to middle pressure 2-phase refrigerant by a LEV ②. It allows 2-phase refrigerant to flow in the existing R22/R407C piping. This 2-phase refrigerant (liquid refrigerant speed is accelerated by gas refrigerant) accelerates to peel off mineral oil in the existing liquid pipe.

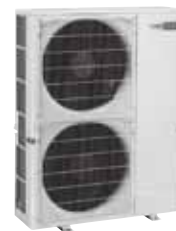
Then, middle pressure 2-phase refrigerant reduces its pressure to low pressure 2-phase refrigerant by an indoor unit LEV to collect mineral oil in the existing gas pipe.

Lastly, the refrigerant returns to outdoor unit with mineral oil and heat exchanges to become low pressure gas refrigerant through heat exchanger. Mineral oil in gas refrigerant is separated at accumulator and only gas refrigerant returns to compressor. Mineral oil collected in accumulator is automatically removed to oil container in the outdoor unit.

OUTDOOR UNIT

Small Y Series

PUMY-P VKM1(-BS)



Specifications

Model			PUMY-P112VKM1(-BS)	PUMY-P125VKM1(-BS)	PUMY-P140VKM1(-BS)
Power source			1-phase 220-240V 50Hz	1-phase 220-240V 50Hz	1-phase 220-240V 50Hz
Cooling capacity (Nominal)	*1	kW	12.5	14.0	15.5
	*1	BTU / h	42,700	47,800	52,900
	Power input	kW	2.79	3.46	4.52
	Current input	A	12.87-12.32-11.80	15.97-15.27-14.64	20.86-19.95-19.12
	EER	kW / kW	4.48	4.05	3.43
Temp. range of cooling	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)
	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 (Nominal)	*2	kW	14.0	16.0	18.0
	*2	BTU / h	47,800	54,600	61,400
	Power input	kW	3.04	3.74	4.47
	Current input	A	14.03-13.42-12.86	17.26-16.51-15.82	20.63-19.73-18.91
	COP	kW / kW	4.61	4.28	4.03
Temp. range of heating	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)
	Outdoor temp.	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	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity
	Model / Quantity		P15-P140 / 9	P15-P140 / 10	P15-P140 / 12
Sound pressure level (measured in anechoic room)		dB <A>	49 / 51	50 / 52	51 / 53
Refrigerant piping diameter	Liquid pipe	mm (in.)	9.52(3/8) Flare	9.52(3/8) Flare	9.52(3/8) Flare
	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	110
		L/s	1,833	1,833	1,833
		cfm	3,884	3,884	3,884
	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	2.9	3.5	3.9
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 dimension 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 devices	High pressure protection		High pressure Switch		High pressure Switch
	Inverter circuit (COMP/FAN)		Overcurrent detection, Overheat detection (Heatsink thermistor)		Overcurrent detection, Overheat detection (Heatsink thermistor)
	Compressor		Compressor thermistor, Over current detection		Compressor thermistor, Over current detection
	Fan motor		Overheating, Voltage protection		Overheating, Voltage protection
Refrigerant	Type x original charge		R410A 4.8kg	R410A 4.8kg	R410A 4.8kg
Net weight		kg (lbs)	123(272)	123(272)	123(272)
Heat exchanger			Cross Fin and Copper tube	Cross Fin and Copper tube	Cross Fin and Copper tube
Defrosting method			Reversed refrigerant circuit	Reversed refrigerant circuit	Reversed refrigerant circuit
Optional parts			Joint: CMY-Y62-G-E Header: CMY-Y64/68-G-E	Joint: CMY-Y62-G-E Header: CMY-Y64/68-G-E	Joint: CMY-Y62-G-E Header: CMY-Y64/68-G-E

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(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.)

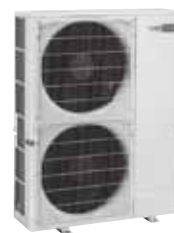
*Nominal condition *1,*2 are subject to ISO 15042.

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

OUTDOOR UNIT

Small Y Series

PUMY-P YKM1(-BS)



► Specifications

Model			PUMY-P112YKM1(-BS)	PUMY-P125YKM1(-BS)	PUMY-P140YKM1(-BS)	PUMY-P200YKM1(-BS)
Power source			3-phase 380-415V 50Hz	3-phase 380-415V 50Hz	3-phase 380-415V 50Hz	3-phase 380-400-415V 50Hz
Cooling capacity (Nominal)	*1	kW	12.5	14.0	15.5	22.4
	*1	BTU / h	42,700	47,800	52,900	76,4
	Power input	kW	2.79	3.46	4.52	6.05
	Current input	A	4.46-4.24-4.09	5.53-5.26-5.07	7.23-6.87-6.62	9.88-9.39-9.05
	EER	kW / kW	4.48	4.05	3.43	3.70
Temp. range of cooling	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)	15.0~24.0°C(59~75°F)
	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)	-5.0~46.0°C(23~115°F)
Heating capacity (Nominal)	*2	kW	14.0	16.0	18.0	25.0
	*2	BTU / h	47,800	54,600	61,400	85.3
	Power input	kW	3.04	3.74	4.47	5.84
	Current input	A	4.86-4.62-4.45	5.98-5.68-5.48	7.15-6.79-6.55	9.54-9.06-8.74
	COP	kW / kW	4.61	4.28	4.03	4.28
Temp. range of heating	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)	15.0~27.0°C(59~81°F)
	Outdoor temp.	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)	-20.0~15.5°C(-4~60°F)
Indoor unit connectable	Total capacity		50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130% of outdoor unit capacity
	Model / Quantity		P15-P140 / 9	P15-P140 / 10	P15-P140 / 12	P15-P250/12
Sound pressure level (measured in anechoic room)		dB <A>	49 / 51	50 / 52	51 / 53	56/61
Refrigerant piping diameter	Liquid pipe	mm (in.)	9.52(3/8) Flare	9.52(3/8) Flare	9.52(3/8) Flare	9.52(3/8) Flare
	Gas pipe	mm (in.)	15.88(5/8) Flare	15.88(5/8) Flare	15.88(5/8) Flare	19.05(3/4) Flare
FAN	Type x Quantity		Propeller Fan x 2	Propeller Fan x 2	Propeller Fan x 2	Propeller fan x 2
	Air flow rate	m³/min	110	110	110	139.0
		L/s	1,833	1,833	1,833	2,316
		cfm	3,884	3,884	3,884	4,908
	Motor output	kW	0.06 + 0.06	0.06 + 0.06	0.06 + 0.06	0.20 + 0.20
Compressor	Type x Quantity		Scroll hermetic compressor x 1	Scroll hermetic compressor x 1	Scroll hermetic compressor x 1	Scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	2.9	3.5	3.9	5.3
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	Galvanized Steel Sheets Munsell No. 3Y 7.8/1.1
External dimension 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)	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)	52-11/16 x 41-11/32 x 13 (+1)
Protection devices	High pressure protection		High pressure Switch	High pressure Switch	High pressure Switch	High pressure switch
	Inverter circuit (COMP./FAN)		Overcurrent detection, Overheat detection (Heatsink thermistor)	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	Compressor thermistor, Over current detection
	Fan motor		Overheating, Voltage protection	Overheating, Voltage protection	Overheating, Voltage protection	Overheating, Voltage protection
Refrigerant	Type x original charge		R410A 4.8kg	R410A 4.8kg	R410A 4.8kg	R410A x 7.3kg
Net weight	kg (lbs)		125(276)	125(276)	125(276)	138(305)
Heat exchanger			Cross Fin and Copper tube	Cross Fin and Copper tube	Cross Fin and Copper tube	Cross Fin and Copper tube
Defrosting method			Reversed refrigerant circuit	Reversed refrigerant circuit	Reversed refrigerant circuit	Reversed refrigerant circuit
Optional parts			Joint: CMY-Y62-G-E Header: CMY-Y64/68-G-E	Joint: CMY-Y62-G-E Header: CMY-Y64/68-G-E	Joint: CMY-Y62-G-E Header: CMY-Y64/68-G-E	Joint: CMY-Y62-G-E Header: CMY-Y64/68-G-E

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(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 Ecostandard

PUHY-P YHA(-BS)

► Specifications



			PUHY-P200YHA(-BS)	PUHY-P250YHA(-BS)	PUHY-P300YHA(-BS)
Power source			3-phase 4-wire 380-400-415V 50/60Hz		
Cooling capacity (Nominal)	*1	kW	22.4	28.0	33.5
	*1	BTU/h	76,400	95,500	114,300
		Power input kW	5.72	7.73	9.07
		Current input A	9.6-9.1-8.8	13.0-12.3-11.9	15.3-14.5-14.0
		COP (kW/kW)	3.91	3.62	3.69
Cooling capacity *3			22.8	28.5	34.1
Temp. range of cooling	Indoor	W.B.	15~24°C(59~75°F)		
	Outdoor	D.B.	- 5~46°C(23~115°F)		
Heating capacity (Nominal)	*2	kW	25.0	31.5	37.5
	*2	BTU/h	85,300	107,500	128,000
		Power input kW	6.03	7.83	9.39
		Current input A	10.1-9.6-9.3	13.2-12.5-12.1	15.8-15.0-14.5
		COP (kW/kW)	4.14	4.02	3.99
Temp. range of heating	Indoor temp.	D.B.	15~27°C(59~81°F)		
	Outdoor temp.	W.B.	-20~15.5°C(-4~60°F)		
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		
	Model/Quantity		P15~P250 / 1~17	P15~P250 / 1~21	P15~P250 / 1~26
Sound pressure level (measured in anechoic room)		dB<A>	56	57	59
Power pressure level (measured in anechoic room)		dB<A>	76	77	79
Diameter of refrigerant pipe	Liquid	mm(in.)	ø9.52 (ø3/8) Brazed	ø9.52 (ø3/8) Brazed (ø12.7 (ø1/2) Brazed , total length >=90m)	ø9.52 (ø3/8) Brazed (ø12.7 (ø1/2) Brazed , total length >=40m)
	Gas	mm(in.)	ø19.05 (ø3/4) Brazed	ø22.2 (ø7/8) Brazed	ø22.2 (ø7/8) Brazed
External finish			Pre-coated galvanized steel sheets (+ powder coating for-BS type) <MUNSELL 3.0Y 7.8/11 or similar>		
External dimension H x W x D		mm	1,650 x 920 x 760	1,650 x 920 x 760	1,650 x 920 x 760
		in.	65 x 36-1/4 x 29-15/16	65 x 36-1/4 x 29-15/16	65 x 36-1/4 x 29-15/16
Net weight		kg(lbs)	185 (408)	200 (441)	215 (474)
Heat exchanger			Salt-resistant cross fin & copper tube		
Compressor	Type		Inverter scroll hermetic compressor		
	Starting method		Inverter		
FAN	Motor output	kW	5.4	6.7	8.2
	Air flow rate	m³/min	185	185	185
		L/s	3,083	3,083	3,083
		cfm	6,532	6,532	6,532
	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit		Over-current protection		
	Fan motor		Thermal switch	Thermal switch	Thermal switch
Refrigerant	Type x Original charge		R410A x 6.5kg (15 lbs) joint : CMY-Y102SS-G2	R410A x 9.0kg (20 lbs) joint : CMY-Y102SS / LS-G2	R410A x 9.0kg (20 lbs) joint : CMY-Y102SS / LS-G2
Optional parts			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(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.)

*3 Reference data under condition of Indoor 27°C DB/19.5°C WB(81°F DB/67°F WB) Outdoor 35°C DB(95°F DB)

*Nominal condition *1,*2 are subject to JIS B8615-2.

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

OUTDOOR UNIT Y Ecostandard PUHY-P YHA(-BS)



► Specifications

			PUHY-P350YHA(-BS)	PUHY-P400YHA(-BS)	PUHY-P450YHA(-BS)
Power source			3-phase 4-wire 380-400-415V 50/60Hz		
Cooling capacity (Nominal)	*1	kW	40.0	45.0	50.0
	*1	BTU/h	136,500	153,500	170,600
		Power input kW	11.20	13.23	16.66
		Current input A	18.9-17.9-17.3	22.3-21.2-20.4	28.1-26.7-25.7
		COP (kW/kW)	3.57	3.40	3.00
Cooling capacity	*3	kW	40.7	45.8	50.9
Temp. range of cooling	Indoor	W.B.	15~24°C (59~75°F)		
	Outdoor	D.B.	- 5~46°C (23~115°F)		
Heating capacity (Nominal)	*2	kW	45.0	50.0	52.0
	*2	BTU/h	153,500	170,600	177,400
		Power input kW	12.09	13.47	15.85
		Current input A	20.4-19.3-18.6	22.7-21.6-20.8	26.7-25.4-24.5
		COP (kW/kW)	3.72	3.71	3.28
Temp. range of heating	Indoor temp.	D.B.	15~27°C (59~81°F)		
	Outdoor temp.	W.B.	-20~15.5°C (-4~60°F)		
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		
	Model/Quantity		P15~P250 / 1~30	P15~P250 / 1~34	P15~P250 / 1~39
Sound pressure level (measured in anechoic room)		dB<A>	60	61	62
Power pressure level (measured in anechoic room)		dB<A>	80	81	82
Diameter of refrigerant pipe	Liquid	mm(in.)	ø12.7 (ø1/2) Brazed	ø12.7 (ø1/2) Brazed	ø15.88 (ø5/8) Brazed
	Gas	mm(in.)	ø28.58 (ø1-1/8) Brazed	ø28.58 (ø1-1/8) Brazed	ø28.58 (ø1-1/8) Brazed
External finish			Pre-coated galvanized steel sheets (+ powder coating for-BS type) <MUNSELL 3.0Y 7.8/11 or similar>		
External dimension H x W x D		mm	1,650 x 1,220 x 760	1,650 x 1,220 x 760	1,650 x 1,220 x 760
		in.	65 x 48-1/16 x 29-15/16	65 x 48-1/16 x 29-15/16	65 x 48-1/16 x 29-15/16
Net weight		kg(lbs)	245 (541)	245 (541)	245 (541)
Heat exchanger			Salt-resistant cross fin & copper tube		
Compressor	Type		Inverter scroll hermetic compressor		
	Starting method		Inverter		
FAN	Motor output	kW	10.3	10.5	12.0
	Air flow rate	m³/min	225	225	225
		L/s	3,750	3,750	3,750
		cfm	7,945	7,945	7,945
	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit		Over-current protection		
	Fan motor		Thermal switch	Thermal switch	Thermal switch
Refrigerant	Type x Original charge		R410A x 11.5kg (26 lbs)	R410A x 11.5kg (26 lbs)	R410A x 11.5kg (26 lbs)
Optional parts			joint : CMY-Y102SS / LS-G2, CMY-Y202S-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(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.)

*3 Reference data under condition of Indoor 27°C DB/19.5°C WB(81°F DB/67°F WB) Outdoor 35°C DB(95°F DB)

*Nominal condition *1,*2 are subject to JIS B8615-2.

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

OUTDOOR UNIT Y Ecostandard PUHY-P YSHA(-BS)



► Specifications

Set name			PUHY-P500YSHA(-BS)		PUHY-P550YSHA(-BS)		PUHY-P600YSHA(-BS)		PUHY-P650YSHA(-BS)	
Power source			3-phase 4-wire 380-400-415V 50/60Hz							
Cooling capacity (Nominal)	*1	kW	56.0		63.0		69.0		73.0	
	*1	BTU/h	191,100		215,000		235,400		249,100	
		Power input kW	16.47		18.36		18.75		20.79	
		Current input A	27.8-26.4-25.4		30.9-29.4-28.3		31.6-30.0-28.9		35.0-33.3-32.1	
		COP (kW / kW)	3.40		3.43		3.68		3.51	
Cooling capacity		*3 kW	57.0		64.1		70.2		74.2	
Temp. range of cooling	Indoor	W.B.	15~24°C (59~75°F)							
	Outdoor	D.B.	- 5~46°C (23~115°F)							
Heating capacity (Nominal)	*2	kW	63.0		69.0		76.5		81.5	
	*2	BTU/h	215,000		235,400		261,000		278,100	
		Power input kW	16.40		18.06		19.92		21.90	
		Current input A	27.6-26.3-25.3		30.4-28.9-27.9		33.6-31.9-30.7		36.9-35.1-33.8	
		COP (kW/kW)	3.84		3.82		3.84		3.72	
Temp. range of heating	Indoor temp.	D.B.	15~27°C (59~81°F)							
	Outdoor temp.	W.B.	-20~15.5°C (-4~60°F)							
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity							
	Model/Quantity		P15~P250 / 1~43		P15~P250 / 1~47		P15~P250 / 1~50		P15~P250 / 1~50	
Sound pressure level (measured in anechoic room)		dB <A>	60		61		62		62.5	
Power pressure level (measured in anechoic room)		dB <A>	80		81		82		82.5	
Diameter of refrigerant pipe	Liquid	mm(in.)	ø15.88 (ø5/8) Brazed		ø15.88 (ø5/8) Brazed		ø15.88 (ø5/8) Brazed		ø15.88 (ø5/8) Brazed	
	Gas	mm(in.)	ø28.58 (ø1-1/8) Brazed		ø28.58 (ø1-1/8) Brazed		ø28.58 (ø1-1/8) Brazed		ø28.58 (ø1-1/8) Brazed	
Outdoor unit 1 and Outdoor unit 2			PUHY-P250YHA (-BS)	PUHY-P250YHA (-BS)	PUHY-P250YHA (-BS)	PUHY-P300YHA (-BS)	PUHY-P250YHA (-BS)	PUHY-P300YHA (-BS)	PUHY-P300YHA (-BS)	PUHY-P350YHA (-BS)
External finish			Pre-coated galvanized steel sheets (+ powder coating for-BS type) <MUNSELL 3.0Y 7.8/11 or similar>							
External dimension H x W x D		mm	1,650 x 920x 760	1,650 x 920 x 760	1,650 x 920 x 760	1,650 x 920 x 760	1,650 x 1,220 x 760	1,650 x 920 x 760	1,650 x 1,220 x 760	1,650 x 1,220 x 760
		in.	65 x 36-1/4 x 29-15/16	65 x 36-1/4 x 29-15/16	65 x 36-1/4 x 29-15/16	65 x 36-1/4 x 29-15/16	65 x 36-1/4 x 29-15/16	65 x 48-1/16 x 29-15/16	65 x 36-1/4 x 29-15/16	65 x 48-1/16 x 29-15/16
Net weight		kg(lbs)	200 (441)	200 (441)	200 (441)	215 (474)	200 (441)	245 (541)	215 (474)	245 (541)
Heat exchanger			Salt-resistant galvanized cross fin & copper tube							
Compressor	Type		Inverter scroll hermetic compressor							
	Starting method		Inverter							
	Motor output kW		6.7	6.7	6.7	8.2	6.7	10.3	8.2	10.3
FAN	Air flow rate	m³/min	185	185	185	185	185	225	185	225
		L/s	3,083	3,083	3,083	3,083	3,083	3,750	3,083	3,750
		cfm	6,532	6,532	6,532	6,532	6,532	7,945	6,532	7,945
	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	Propeller fan x 1	Propeller fan x 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	0.92 x 1	0.92 x 1
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)							
	Inverter circuit		Over-current protection							
	Fan motor		Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch
Refrigerant		Type x Original charge	R410A x 9.0kg (20 lbs)	R410A x 9.0kg (20 lbs)	R410A x 9.0kg (20 lbs)	R410A x 9.0kg (20 lbs)	R410A x 9.0kg (20 lbs)	R410A x 11.5kg (26 lbs)	R410A x 9.0kg (20 lbs)	R410A x 11.5kg (26 lbs)
Pipe between unit distributor	Liquid	mm(in.)	ø9.52 (ø3/8) Brazed		ø9.52 (ø3/8) Brazed		ø9.52 (ø3/8) Brazed		ø12.7 (ø1/2) Brazed	
	Gas	mm(in.)	ø22.2 (ø7/8) Brazed		ø22.2 (ø7/8) Brazed		ø22.2 (ø7/8) Brazed		ø28.58 (ø1-1/8) Brazed	
Optional parts			Outdoor Twinning Kit : CMY-Y100VBK2 joint : CMY-Y102SS / LS-G2, CMY-Y202S-G2 Header : CMY-Y104 / 108 / 1010-G			Outdoor Twinning Kit : CMY-Y100VBK2 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 (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.)

*3 Reference data under condition of Indoor 27°C DB/19.5°C WB(81°F DB/67°F WB) Outdoor 35°C DB(95°F DB)

*Nominal condition *1,*2 are subject to JIS B8615-2.

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

OUTDOOR UNIT

Y Ecostandard

PUHY-P YSHA(-BS)



► Specifications

Set name			PUHY-P700YSHA(-BS)		PUHY-P750YSHA(-BS)		PUHY-P800YSHA(-BS)		
Power source			3-phase 4-wire 380-400-415V 50/60Hz						
Cooling capacity (Nominal)	*1	kW	80.0		85.0		90.0		
	*1	BTU/h	273,000		290,000		307,100		
		Power input kW	22.47		25.07		27.69		
		Current input A	37.9-36.0-34.7		42.3-40.2-38.7		46.7-44.4-42.8		
		COP (kW/kW)	3.56		3.39		3.25		
Cooling capacity		*3 kW	81.4		86.4		91.5		
Temp. range of cooling	Indoor	W.B.	15~24°C (59~75°F)						
	Outdoor	D.B.	- 5~46°C (23~115°F)						
Heating capacity (Nominal)	*2	kW	88.0		95.0		100.0		
	*2	BTU/h	300,300		324,100		341,200		
		Power input kW	23.71		25.46		25.70		
		Current input A	40.0-38.0-36.6		42.9-40.8-39.3		43.3-41.2-39.7		
		COP (kW/kW)	3.71		3.73		3.89		
Temp. range of heating	Indoor temp.	D.B.	15~27°C (59~81°F)						
	Outdoor temp.	W.B.	-20~15.5°C (-4~60°F)						
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity						
	Model/Quantity		P15~P250 / 1~50		P15~P250 / 1~50		P15~P250 / 1~50		
Sound pressure level (measured in anechoic room)		dB<A>	63		63.5		64		
Power pressure level (measured in anechoic room)		dB<A>	83		83.5		84		
Diameter of refrigerant pipe	Liquid	mm(in.)	ø19.05 (ø3/4) Brazed		ø19.05 (ø3/4) Brazed		ø19.05 (ø3/4) Brazed		
	Gas	mm(in.)	ø34.93 (ø1-3/8) Brazed		ø34.93 (ø1-3/8) Brazed		ø34.93 (ø1-3/8) Brazed		
Outdoor unit 1 and Outdoor unit 2			PUHY-P350YHA(-BS)	PUHY-P350YHA(-BS)	PUHY-P350YHA(-BS)	PUHY-P400YHA(-BS)	PUHY-P350YHA(-BS)	PUHY-P450YHA(-BS)	
External finish			Pre-coated galvanized steel sheets (+ powder coating for-BS type) <MUNSELL 3.0Y 7.8/11 or similar>						
External dimension H x W x D		mm	1,650 x 1,220 x 760	1,650 x 1,220 x 760	1,650 x 1,220 x 760	1,650 x 1,220 x 760	1,650 x 1,220 x 760	1,650 x 1,220 x 760	
		in.	65 x 48-1/16 x 29-15/16	65 x 48-1/16 x 29-15/16	65 x 48-1/16 x 29-15/16	65 x 48-1/16 x 29-15/16	65 x 48-1/16 x 29-15/16	65 x 48-1/16 x 29-15/16	
Net weight		kg(lbs)	245 (541)	245 (541)	245 (541)	245 (541)	245 (541)	245 (541)	
Heat exchanger			Salt-resistant cross fin & copper tube						
Compressor	Type		Inverter scroll hermetic compressor						
	Starting method		Inverter						
FAN	Motor output	kW	10.3	10.3	10.3	10.5	10.3	12.0	
		m³/min	225	225	225	225	225	225	
		L/s	3,750	3,750	3,750	3,750	3,750	3,750	
	Air flow rate	cfm	7,945	7,945	7,945	7,945	7,945	7,945	
		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
		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
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)						
	Inverter circuit		Over-current protection						
	Fan motor		Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	
Refrigerant		Type x Original charge	R410A x 11.5kg (26 lbs)	R410A x 11.5kg (26 lbs)	R410A x 11.5kg (26 lbs)	R410A x 11.5kg (26 lbs)	R410A x 11.5kg (26 lbs)	R410A x 11.5kg (26 lbs)	
Pipe between unit distributor	Liquid	mm(in.)	ø12.7 (ø1/2) Brazed		ø12.7 (ø1/2) Brazed	ø15.88 (ø5/8) Brazed	ø12.7 (ø1/2) Brazed	ø15.88 (ø5/8) Brazed	
	Gas	mm(in.)	ø28.58 (ø1-1/8) Brazed		ø28.58 (ø1-1/8) Brazed	ø28.58 (ø1-1/8) Brazed	ø28.58 (ø1-1/8) Brazed	ø28.58 (ø1-1/8) Brazed	
Optional parts			Outdoor Twinning Kit : CMY-Y200VBK2 joint : CMY-Y102SS / LS-G2, CMY-Y202S / 302S-G2 Header : CMY-Y104 / 108 / 1010-G						

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(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.)

*3 Reference data under condition of Indoor 27°C DB/19.5°C WB(81°F DB/67°F WB) Outdoor 35°C DB(95°F DB)

*Nominal condition *1,*2 are subject to JIS B8615-2.

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

OUTDOOR UNIT Y Ecostandard PUHY-P YSHA(-BS)



► Specifications

Set name			PUHY-P850YSHA(-BS)		PUHY-P900YSHA(-BS)		
Power source			3-phase 4-wire 380-400-415V 50/60Hz				
Cooling capacity (Nominal)	*1	kW	96.0		101.0		
	*1	BTU/h	327,600		344,600		
	Power input	kW	30.90		34.12		
	Current input	A	52.1-49.5-47.7		57.5-54.7-52.7		
	COP (kW/kW)		3.10		2.96		
Cooling capacity		*3 kW	97.6		102.7		
Temp. range of cooling	Indoor	W.B.	15~24°C (59~75°F)				
	Outdoor	*2 D.B.	- 5~46°C (23~115°F)				
Heating capacity (Nominal)	*2	kW	102.0		104.0		
		BTU/h	348,000		354,800		
	Power input	kW	29.82		31.7		
	Current input	A	50.3-47.8-46.0		53.5-50.8-49.0		
	COP (kW/kW)		3.42		3.28		
Temp. range of heating	Indoor temp.	D.B.	15~27°C (59~81°F)				
	Outdoor temp.	W.B.	-20~15.5°C (-4~60°F)				
Indoor unit connectable	Total capacity	50~130% of outdoor unit capacity					
	Model/Quantity	P15~P250 / 1~50		P15~P250 / 1~50			
Sound pressure level (measured in anechoic room)		dB<A>	64.5		65		
Power pressure level (measured in anechoic room)		dB<A>	84.5		85		
Diameter of refrigerant pipe	Liquid	mm(in.)	ø19.05 (ø3/4) Brazed		ø19.05 (ø3/4) Brazed		
	Gas	mm(in.)	ø41.28 (ø1-5/8) Brazed		ø41.28 (ø1-5/8) Brazed		
Outdoor unit 1 and Outdoor unit 2			PUHY-P400YHA(-BS)	PUHY-P450YHA(-BS)	PUHY-P450YHA(-BS)	PUHY-P450YHA(-BS)	
External finish			Pre-coated galvanized steel sheets (+ powder coating for-BS type) <MUNSELL 3.0Y 7.8/11 or similar>				
External dimension H x W x D	mm	1,650 x 1,220 x 760		1,650 x 1,220 x 760		1,650 x 1,220 x 760	
	in.	65 x 48-1/16 x 29-15/16		65 x 48-1/16 x 29-15/16		65 x 48-1/16 x 29-15/16	
Net weight		kg(lbs)	245 (541)		245 (541)		
Heat exchanger			Salt-resistant cross fin & copper tube				
Compressor	Type	Inverter scroll hermetic compressor					
	Starting method	Inverter					
	Motor output	kW	10.5		12.0		
FAN	Air flow rate	m³/min	225		225		
		L/s	3,750		3,750		
		cfm	7,945		7,945		
	Type x Quantity	Propeller fan x 1		Propeller fan x 1			
	Motor output	kW	0.92 x 1		0.92 x 1		
	High pressure protection					High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
Protection devices	Inverter circuit		Over-current protection				
	Fan motor		Thermal switch		Thermal switch		
Refrigerant		Type x Original charge	R410A x 11.5kg (26 lbs)		R410A x 11.5kg (26 lbs)		
Pipe between unit distributor	Liquid	mm(in.)	ø15.88 (ø5/8) Brazed				
	Gas	mm(in.)	ø28.58 (ø1-1/8) Brazed				
Optional parts			Outdoor Twinning kit : CMY-Y200VBK2 joint : CMY-Y102SS / LS-G2, CMY-Y202S / 302S-G2 Header : CMY-Y104 / 108 / 1010-G				

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(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.)

*3 Reference data under condition of Indoor 27°C DB/19.5°C WB(81°F DB/67°F WB) Outdoor 35°C DB(95°F DB)

*Nominal condition *1,*2 are subject to JIS B8615-2.

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

OUTDOOR UNIT Y Ecostandard PUHY-P YSHA(-BS)



► Specifications

Set name			PUHY-P950YSHA(-BS)			PUHY-P1000YSHA(-BS)			PUHY-P1050YSHA(-BS)		
Power source			3-phase 4-wire 380-400-415V 50/60Hz								
Cooling capacity (Nominal)	*1	kW	108.0			113.0			118.0		
	*1	BTU/h	368,500			385,600			402,600		
		Power input	30.68			32.47			33.90		
		Current input	51.7-49.2-47.4			54.8-52.0-50.1			57.2-54.3-52.4		
		COP (kW/kW)	3.52			3.48			3.48		
Cooling capacity		*3 kW	109.8			114.9			120.0		
Temp. range of cooling	Indoor	W.B.	15~24°C (59~75°F)								
	Outdoor	D.B.	- 5~46°C (23~115°F)								
Heating capacity (Nominal)	*2	kW	119.5			127.0			132.0		
	*2	BTU/h	407,700			433,300			450,400		
		Power input	30.02			33.15			35.01		
		Current input	50.6-48.1-46.4			55.9-53.1-51.2			59.1-56.1-54.1		
		COP (kW/kW)	3.98			3.83			3.77		
Temp. range of heating	Indoor temp.	D.B.	15~27°C (59~81°F)								
	Outdoor temp.	W.B.	-20~15.5°C (-4~60°F)								
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity								
	Model/Quantity		P15~P250 / 1~50			P15~P250 / 2~50			P15~P250 / 2~50		
Sound pressure level (measured in anechoic room)		dB<A>	64			64.5			65		
Power pressure level (measured in anechoic room)		dB<A>	84			84.5			85		
Diameter of refrigerant pipe	Liquid	mm(in.)	ø19.05 (ø3/4) Brazed			ø19.05 (ø3/4) Brazed			ø19.05 (ø3/4) Brazed		
	Gas	mm(in.)	ø41.28 (ø1-5/8) Brazed			ø41.28 (ø1-5/8) Brazed			ø41.28 (ø1-5/8) Brazed		
Outdoor unit 1 , Outdoor unit 2 , and Outdoor unit 3			PUHY -P250YHA (-BS)	PUHY -P300YHA (-BS)	PUHY -P400YHA (-BS)	PUHY -P300YHA (-BS)	PUHY -P300YHA (-BS)	PUHY -P400YHA (-BS)	PUHY -P300YHA (-BS)	PUHY -P350YHA (-BS)	PUHY -P400YHA (-BS)
External finish			Pre-coated galvanized steel sheets (+ powder coating for-BS type) <MUNSELL 3.0Y 7.8/11 or similar>								
External dimension H x W x D	mm	1,650 x 920 x 760	1,650 x 920 x 760	1,650 x 1,220 x 760	1,650 x 920 x 760	1,650 x 920 x 760	1,650 x 1,220 x 760	1,650 x 920 x 760	1,650 x 1,220 x 760	1,650 x 1,220 x 760	
	in.	65 x 36-1/4 x 29-15/16	65 x 36-1/4 x 29-15/16	65 x 48-1/16 x 29-15/16	65 x 36-1/4 x 29-15/16	65 x 36-1/4 x 29-15/16	65 x 48-1/16 x 29-15/16	65 x 36-1/4 x 29-15/16	65 x 48-1/16 x 29-15/16	65 x 48-1/16 x 29-15/16	
Net weight		kg(lbs)	200 (441)	215 (474)	245 (541)	215 (474)	215 (474)	245 (541)	215 (474)	245 (541)	245 (541)
Heat exchanger			Salt-resistant cross fin & copper tube								
Compressor	Type	Inverter scroll hermetic compressor									
	Starting method		Inverter								
FAN	Motor output	kW	6.7	8.2	10.5	8.2	8.2	10.5	8.2	10.3	10.5
	Air flow rate	m³/min	185	185	225	185	185	225	185	225	225
		L/s	3,083	3,083	3,750	3,083	3,083	3,750	3,083	3,750	3,750
		cfm	6,532	6,532	7,945	6,532	6,532	7,945	6,532	7,945	7,945
	Type x Quantity		Propeller fan x 1			Propeller fan x 1			Propeller fan x 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	0.92 x 1	0.92 x 1	0.92 x 1
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)								
	Inverter circuit		Over-current protection								
	Fan motor		Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch
Refrigerant	Type x Original charge		R410A x 9.0kg (20 lbs)	R410A x 9.0kg (20 lbs)	R410A x 11.5kg (26 lbs)	R410A x 9.0kg (20 lbs)	R410A x 9.0kg (20 lbs)	R410A x 11.5kg (26 lbs)	R410A x 9.0kg (20 lbs)	R410A x 11.5kg (26 lbs)	R410A x 11.5kg (26 lbs)
	Pipe between unit distributor	Liquid	mm(in.)	ø9.52 (ø3/8) Brazed	ø12.7 (ø1/2) Brazed	ø15.88 (ø5/8) Brazed	ø12.7 (ø1/2) Brazed		ø15.88 (ø5/8) Brazed	ø12.7 (ø1/2) Brazed	ø12.7 (ø1/2) Brazed
		Gas	mm(in.)	ø22.2 (ø7/8) Brazed	ø22.2 (ø7/8) Brazed	ø28.58 (ø1-1/8) Brazed	ø22.2 (ø7/8) Brazed		ø28.58 (ø1-1/8) Brazed	ø22.2 (ø7/8) Brazed	ø28.58 (ø1-1/8) Brazed
Optional parts			Outdoor Twinning kit : CMY-Y300VBK2 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 (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.)

*3 Reference data under condition of Indoor 27°C DB/19.5°C WB(81°F DB/67°F WB) Outdoor 35°C DB(95°F DB)

*Nominal condition *1,*2 are subject to JIS B8615-2.

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

OUTDOOR UNIT Y Ecostandard PUHY-P YSHA(-BS)



► Specifications

Set name			PUHY-P1100YSHA(-BS)			PUHY-P1150YSHA(-BS)		
Power source			3-phase 4-wire 380-400-415V 50/60Hz					
Cooling capacity (Nominal)	*1	kW	124.0			130.0		
	*1	BTU/h	423,100			443,600		
	Power input	kW	35.83			39.39		
	Current input	A	60.4-57.4-55.3			66.4-63.1-60.8		
	COP (kW/kW)		3.46			3.30		
Cooling capacity	*3	kW	126.1			132.2		
Temp. range of cooling	Indoor	W.B.	15~24°C (59~75°F)					
	Outdoor	D.B.	- 5~46°C (23~115°F)					
Heating capacity (Nominal)	*2	kW	140.0			145.0		
	*2	BTU/h	477,700			494,700		
	Power input	kW	36.93			39.08		
	Current input	A	62.3-59.2-57.0			65.9-62.6-60.4		
	COP (kW/kW)		3.79			3.71		
Temp. range of heating	Indoor temp.	D.B.	15~27°C (59~81°F)					
	Outdoor temp.	W.B.	-20~15.5°C (-4~60°F)					
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity					
	Model/Quantity		P15~P250 / 2~50			P15~P250 / 2~50		
Sound pressure level (measured in anechoic room)	dB<A>		65			65.5		
Power pressure level (measured in anechoic room)	dB<A>		85			85.5		
Diameter of refrigerant pipe	Liquid	mm(in.)	ø19.05 (ø3/4) Brazed			ø19.05 (ø3/4) Brazed		
	Gas	mm(in.)	ø41.28 (ø1-5/8) Brazed			ø41.28 (ø1-5/8) Brazed		
Outdoor unit 1, Outdoor unit 2, and Outdoor unit 3			PUHY-P350YHA(-BS)	PUHY-P350YHA(-BS)	PUHY-P400YHA(-BS)	PUHY-P350YHA(-BS)	PUHY-P350YHA(-BS)	PUHY-P450YHA(-BS)
External finish			Pre-coated galvanized steel sheets (+ powder coating for-BS type) <MUNSELL 3.0Y 7.8/11 or similar>					
Extrenal dimension H x W x D	mm		1,650 x 1,220 x 760	1,650 x 1,220 x 760	1,650 x 1,220 x 760	1,650 x 1,220 x 760	1,650 x 1,220 x 760	1,650 x 1,220 x 760
	in.		65 x 48-1/16 x 29-15/16	65 x 48-1/16 x 29-15/16	65 x 48-1/16 x 29-15/16	65 x 48-1/16 x 29-15/16	65 x 48-1/16 x 29-15/16	65 x 48-1/16 x 29-15/16
Net weight	kg (lbs)		245(541)	245(541)	245(541)	245(541)	245(541)	245(541)
Heat exchanger			Salt-resistant cross fin & copper tube					
Compressor	Type		Inverter scroll hermetic compressor					
	Starting method		Inverter					
FAN	Motor output	kW	10.3	10.3	10.5	10.3	10.3	12.0
	Air flow rate	m³/min	225	225	225	225	225	225
		L/s	3,750	3,750	3,750	3,750	3,750	3,750
		cfm	7,945	7,945	7,945	7,945	7,945	7,945
	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
Motor output	kW	0.92 x 1	0.92x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)					
	Inverter circuit		Over-current protection					
Refrigerant	Fan motor		Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch
	Type x Original charge		R410A x 11.5kg (26 lbs)	R410A x 11.5kg (26 lbs)	R410A x 11.5kg (26 lbs)	R410A x 11.5kg (26 lbs)	R410A x 11.5kg (26 lbs)	R410A x 11.5kg (26 lbs)
Pipe between unit distributor	Liquid	mm(in.)	ø12.7 (ø1/2) Brazed			ø12.7 (ø1/2) Brazed		ø15.88 (ø5/8) Brazed
	Gas	mm(in.)	ø28.58 (ø1-1/8) Brazed			ø28.58 (ø1-1/8) Brazed		ø28.58 (ø1-1/8) Brazed
Optional parts			Outdoor Twinning Kit : CMY-Y300VBK2 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 (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.)

*3 Reference data under condition of Indoor 27°C DB/19.5°C WB(81°F DB/67°F WB) Outdoor 35°C DB(95°F DB)

*Nominal condition *1,*2 are subject to JIS B8615-2.

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

OUTDOOR UNIT Y Ecostandard PUHY-P YSHA(-BS)



► Specifications

Set name			PUHY-P1200YSHA(-BS)			PUHY-P1250YSHA(-BS)		
Power source			3-phase 4-wire 380-400-415V 50/60Hz					
Cooling capacity (Nominal)	*1	kW	136.0			140.0		
	*1	BTU/h	464,000			477,700		
	Power input	kW	41.71			46.20		
	Current input	A	70.4-66.8-64.4			77.9-74.0-71.4		
	COP (kW/kW)		3.26			3.03		
Cooling capacity		*3 kW	138.3			142.4		
Temp. range of cooling	Indoor	W.B.	15~24°C (59~75°F)					
	Outdoor	D.B.	- 5~46°C (23~115°F)					
Heating capacity (Nominal)	*2	kW	150.0			150.0		
	*2	BTU/h	511,800			511,800		
	Power input	kW	40.10			44.77		
	Current input	A	67.6-64.3-61.9			75.5-71.7-69.2		
	COP (kW/kW)		3.74			3.35		
Temp. range of heating	Indoor temp.	D.B.	15~27°C (59~81°F)					
	Outdoor temp.	W.B.	-20~15.5°C (-4~60°F)					
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity					
	Model/Quantity		P15~P250 / 2~50			P15~P250 / 2~50		
Sound pressure level (measured in anechoic room)		dB<A>	66			66		
Power pressure level (measured in anechoic room)		dB<A>	86			86		
Diameter of refrigerant pipe	Liquid	mm(in.)	ø19.05 (ø3/4) Brazed			ø19.05 (ø3/4) Brazed		
	Gas	mm(in.)	ø41.28 (ø1-5/8) Brazed			ø41.28 (ø1-5/8) Brazed		
Outdoor unit 1, Outdoor unit 2, and Outdoor unit 3			PUHY-P350YHA(-BS)	PUHY-P400YHA(-BS)	PUHY-P450YHA(-BS)	PUHY-P350YHA(-BS)	PUHY-P450YHA(-BS)	PUHY-P450YHA(-BS)
External finish			Pre-coated galvanized steel sheets (+ powder coating for-BS type) <MUNSELL 3.0Y 7.8/11 or similar>					
Extrenal dimension H x W x D	mm		1,650 x 1,220 x 760	1,650 x 1,220 x 760	1,650 x 1,220 x 760	1,650 x 1,220 x 760	1,650 x 1,220 x 760	1,650 x 1,220 x 760
	in.		65 x 48-1/16 x 29-15/16	65 x 48-1/16 x 29-15/16	65 x 48-1/16 x 29-15/16	65 x 48-1/16 x 29-15/16	65 x 48-1/16 x 29-15/16	65 x 48-1/16 x 29-15/16
Net weight		kg (lbs)	245 (541)	245 (541)	245 (541)	245 (541)	245 (541)	245 (541)
Heat exchanger			Salt-resistant cross fin & copper tube					
Compressor	Type		Inverter scroll hermetic compressor					
	Starting method		Inverter					
FAN	Motor output	kW	10.3	10.5	12.0	10.3	12.0	12.0
	Air flow rate	m³/min	225	225	225	225	225	225
		L/s	3,750	3,750	3,750	3,750	3,750	3,750
		cfm	7,945	7,945	7,945	7,945	7,945	7,945
	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
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
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)					
	Inverter circuit		Over-current protection					
	Fan motor		Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch
Refrigerant	Type x Original charge		R410A x 11.5kg (26 lbs)	R410A x 11.5kg (26 lbs)	R410A x 11.5kg (26 lbs)	R410A x 11.5kg (26 lbs)	R410A x 11.5kg (26 lbs)	R410A x 11.5kg (26 lbs)
Pipe between unit distributor	Liquid	mm(in.)	ø12.7 (ø1/2) Brazed	ø15.88 (ø5/8) Brazed		ø12.7 (ø1/2) Brazed		ø15.88 (ø5/8) Brazed
	Gas	mm(in.)	ø28.58 (ø1-1/8) Brazed	ø28.58 (ø1-1/8) Brazed		ø28.58 (ø1-1/8) Brazed		ø28.58 (ø1-1/8) Brazed
Optional parts			Outdoor Twinning Kit : CMY-Y300VBK2 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 (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.)

*3 Reference data under condition of Indoor 27°C DB/19.5°C WB(81°F DB/67°F WB) Outdoor 35°C DB(95°F DB)

*Nominal condition *1,*2 are subject to JIS B8615-2.

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

OUTDOOR UNIT

Y Nominal

PUHY-P YKB-A1(-BS)



► Specifications

Model			PUHY-P200YKB-A1 (-BS)	PUHY-P250YKB-A1 (-BS)	PUHY-P300YKB-A1 (-BS)	PUHY-P350YKB-A1 (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity (Nominal)	*1	kW	22.4	28.0	33.5	40.0
		BTU / h	76,400	95,500	114,300	136,500
	Power input	kW	5.19	6.88	8.56	11.69
	Current input	A	8.7-8.3-8.0	11.6-11.0-10.6	14.4-13.7-13.2	19.7-18.7-18.0
	EER	kW / kW	4.31	4.06	3.91	3.42
Temp. range of cooling	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)	15.0~24.0°C (59~75°F)
	Outdoor	D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)
Heating capacity (Nominal)	*2	kW	25.0	31.5	37.5	45.0
		BTU / h	85,300	107,500	128,000	153,500
	Power input	kW	5.81	7.34	9.07	11.13
	Current input	A	9.8-9.3-8.9	12.3-11.7-11.3	15.3-14.5-14.0	18.7-17.8-17.2
	COP	kW / kW	4.30	4.29	4.13	4.04
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)	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)	-20.0~15.5°C (-4~60°F)
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
	Model / Quantity		P15~P250/1~17	P15~P250/1~21	P15~P250/1~26	P15~P250/1~30
Sound pressure level (measured in anechoic room)		dB <A>	57	59	61	61
Sound power level (measured in anechoic room)		dB <A>	78	79	83	83
Refrigerant piping diameter	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)	12.7 (1/2) Brazed
	Gas pipe	mm (in.)	22.2 (7/8) Brazed	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	Propeller fan x 1
	Air flow rate	m³/min	175	175	210	210
		L/s	2,917	2,917	3,500	3,500
		cfm	6,179	6,179	7,415	7,415
	Driving mechanism		Inverter-control, Direct-driven by motor	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	0.92 x 1
	External static press.		0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)
	*3					
Compressor	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.5	6.9	8.1	10.5
	Case heater	kW	—	—	—	—
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>
External dimension 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	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	67-3/8 (65 without legs) x 48-1/16 x 29-3/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		—	—	—	—
	Fan motor		—	—	—	—
Refrigerant	Type x original charge		R410A x 6.5 kg (15 lbs)	R410A x 8.0 kg (18 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)
Net weight	kg (lbs)		190 (419)	199 (439)	251 (554)	251 (554)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & copper 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	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.)
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 B8615-2.

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

OUTDOOR UNIT

Y Nominal

PUHY-P YSKB-A1(-BS)



► Specifications

Model			PUHY-P400YSKB-A1 (-BS)	PUHY-P450YSKB-A1 (-BS)	PUHY-P500YSKB-A1 (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity (Nominal)	*1	kW	45.0	50.0	56.0
	*1	BTU / h	153,500	170,600	191,100
	Power input	kW	11.00	12.59	14.54
	Current input	A	18.5-17.6-17.0	21.2-20.1-19.4	24.5-23.3-22.4
Temp. range of cooling	EER	kW / kW	4.09	3.97	3.85
	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)
	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 (Nominal)	*2	kW	50.0	56.0	63.0
	*2	BTU / h	170,600	191,100	215,000
	Power input	kW	12.24	13.72	15.46
	Current input	A	20.6-19.6-18.9	23.1-22.0-21.2	26.0-24.7-23.8
Temp. range of heating	COP	kW / kW	4.08	4.08	4.07
	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 connectable	Total capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
	Model / Quantity		P15-P250/1~34	P15-P250/1~39	P15-P250/1~43
Sound pressure level (measured in anechoic room)		dB <A>	60	61.5	62
Sound power level (measured in anechoic room)		dB <A>	81	82	82
Refrigerant piping diameter	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed

Set Model			PUHY-P200YKB-A1 (-BS)	PUHY-P200YKB-A1 (-BS)	PUHY-P200YKB-A1 (-BS)	PUHY-P250YKB-A1 (-BS)	PUHY-P250YKB-A1 (-BS)	PUHY-P250YKB-A1 (-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	175	175	175	175	175	175
		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
Compressor	Driving mechanism		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	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	0.92 x 1	0.92 x 1	0.92 x 1
	External static press.		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)
	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
External finish	Starting method		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 dimension HxWxD	mm		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>
			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 920 x 740	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 920 x 740
			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 36-1/4 x 29-3/16
	in.							
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	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)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP/FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		—	—	—	—	—	—
	Fan motor		—	—	—	—	—	—
Refrigerant	Type x original charge		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 cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
Pipe between unit and distributor	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
	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			Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G	Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G	Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G	Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G	Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G	Outdoor Twinning kit: CMY-Y100VBK3 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 (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 B8615-2.

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

OUTDOOR UNIT

Y Nominal

PUHY-P YSKB-A1(-BS)



► Specifications

Model			PUHY-P550YSKB-A1 (-BS)		PUHY-P600YSKB-A1 (-BS)		PUHY-P650YSKB-A1 (-BS)	
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1	kW	63.0		69.0		73.0	
		BTU / h	215,000		235,400		249,100	
	Power input	kW	16.66		19.43		20.97	
		Current input	A	28.1-26.7-25.7		32.8-31.1-30.0		35.4-33.6-32.4
	EER	kW / kW	3.78		3.55		3.48	
Temp. range of cooling	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)	
	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 (Nominal)	*2	kW	69.0		76.5		81.5	
		BTU / h	235,400		261,000		278,100	
	Power input	kW	17.29		19.36		21.00	
		Current input	A	29.1-27.7-26.7		32.6-31.0-29.9		35.4-33.6-32.4
	COP	kW / kW	3.99		3.95		3.88	
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)	
	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		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		
	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		86	
Refrigerant piping diameter	Liquid pipe	mm (in.)	15.88 (5/8) Brazed		15.88 (5/8) Brazed		15.88 (5/8) Brazed	
	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			PUHY-P250YKB-A1 (-BS)	PUHY-P300YKB-A1 (-BS)	PUHY-P250YKB-A1 (-BS)	PUHY-P350YKB-A1 (-BS)	PUHY-P300YKB-A1 (-BS)	PUHY-P350YKB-A1 (-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	175	210	210	210
		L/s	2,917	3,500	2,917	3,500	3,500	3,500
		cfm	6,179	7,415	6,179	7,415	7,415	7,415
	Driving mechanism		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	0.92 x 1	0.92 x 1	0.92 x 1
	*3 External static press.		0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	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	Inverter	Inverter	Inverter
	Motor output	kW	6.9	8.1	6.9	10.5	8.1	10.5
	Case heater	kW	—	—	—	—	—	—
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
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) 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
		in.	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	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	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 devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP/FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		—		—		—	
	Fan motor		—		—		—	
Refrigerant	Type x original charge		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)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)
Net weight	kg (lbs)		199 (439)	251 (554)	199 (439)	251 (554)	251 (554)	251 (554)
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Pipe between unit and distributor	Liquid pipe	mm (in.)	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	12.7 (1/2) Brazed
	Gas pipe	mm (in.)	22.2 (7/8) Brazed	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			Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G		Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G		Outdoor Twinning kit: CMY-Y100VBK3 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 (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 B8615-2.

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

OUTDOOR UNIT

Y Nominal

PUHY-P YSKB-A1(-BS)



► Specifications

Model			PUHY-P700YSKB-A1 (-BS)		PUHY-P750YSKB-A1 (-BS)		PUHY-P800YSKB-A1 (-BS)	
Power source			3-phase 4-wire 380~400~415 V 50/60 Hz		3-phase 4-wire 380~400~415 V 50/60 Hz		3-phase 4-wire 380~400~415 V 50/60 Hz	
Cooling capacity (Nominal)	*1	kW	80.0		85.0		90.0	
		BTU / h	273,000		290,000		307,100	
	Power input	kW	24.69		26.56		27.86	
		Current input	A	41.6-39.5-38.1		44.8-42.5-41.0		47.0-44.6-43.0
EER		kW / kW	3.24		3.20		3.23	
Temp. range of cooling	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)	
	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 (Nominal)	*2	kW	88.0		95.0		100.0	
		BTU / h	300,300		324,100		341,200	
	Power input	kW	22.97		24.93		27.62	
		Current input	A	38.7-36.8-35.5		42.0-39.9-38.5		46.6-44.2-42.6
COP		kW / kW	3.83		3.81		3.62	
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)	
	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		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P15~P250/2~50		P15~P250/2~50		P15~P250/2~50	
Sound pressure level (measured in anechoic room)	dB <A>		64		65.5		67.5	
Sound power level (measured in anechoic room)	dB <A>		86		86		87.5	
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed		19.05 (3/4) Brazed		19.05 (3/4) Brazed	
	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-A1 (-BS)	PUHY-P350YKB-A1 (-BS)	PUHY-P350YKB-A1 (-BS)	PUHY-P400YKB-A1 (-BS)	PUHY-P350YKB-A1 (-BS)	PUHY-P450YKB-A1 (-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		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	0.92 x 1	0.92 x 1	0.92 x 2
*3	External static press.		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)
	Type x Quantity		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
Compressor	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 galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension 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 1,220 x 740	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,750 x 740
			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	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	67-3/8 (65 without legs) x 68-15/16 x 29-3/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP/FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		—	—	—	—	—	—
	Fan motor		—	—	—	—	—	—
Refrigerant	Type x original charge		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 cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Pipe between unit and distributor	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
	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 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		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 (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 B8615-2.

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

OUTDOOR UNIT

Y Nominal

PUHY-P YSKB-A1(-BS)



► Specifications

Model			PUHY-P850YSKB-A1 (-BS)		PUHY-P900YSKB-A1 (-BS)	
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1	kW	96.0		101.0	
	*1	BTU / h	327,600		344,600	
	Power input	kW	30.18		31.46	
	Current input	A	50.9-48.4-46.6		53.1-50.4-48.6	
	EER	kW / kW	3.18		3.21	
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)	
	Outdoor	D.B.	-5.0~52.0°C (23~126°F)		-5.0~52.0°C (23~126°F)	
Heating capacity (Nominal)	*2	kW	108.0		113.0	
	*2	BTU / h	368,500		385,600	
	Power input	kW	29.90		33.00	
	Current input	A	50.4-47.9-46.2		55.7-52.9-51.0	
	COP	kW / kW	3.61		3.42	
Temp. range of heating	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 connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P15~P250/2~50		P15~P250/2~50	
Sound pressure level (measured in anechoic room)		dB <A>	68		69	
Sound power level (measured in anechoic room)		dB <A>	87.5		88	
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed		19.05 (3/4) Brazed	
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed		41.28 (1-5/8) Brazed	
Set Model						
Model			PUHY-P400YKB-A1 (-BS)	PUHY-P450YKB-A1 (-BS)	PUHY-P450YKB-A1 (-BS)	PUHY-P450YKB-A1 (-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
		cfm	7,415	12,712	12,712	12,712
	Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
	*3	Motor output	0.92 x 1	0.92 x 2	0.92 x 2	0.92 x 2
	External static press.		0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)
Compressor	Type x Quantity		Inverter scroll hermetic compressor		Inverter scroll hermetic 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			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension 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 devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		—	—	—	—
	Fan motor		—	—	—	—
Refrigerant	Type x original charge		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	kg (lbs)		251 (554)	304 (671)	304 (671)	304 (671)
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Pipe between unit and distributor	Liquid pipe	mm (in.)	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed
	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 (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 B8615-2.

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

OUTDOOR UNIT

Y Nominal

PUHY-P YSKB-A1(-BS)



► Specifications

Model			PUHY-P950YSKB-A1 (-BS)			PUHY-P1000YSKB-A1 (-BS)		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz			3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	108.0			113.0		
	*1	BTU / h	368,500			385,600		
	Power input	kW	30.25			32.10		
	Current input	A	51.0-48.5-46.7			54.1-51.4-49.6		
	EER	kW / kW	3.57			3.52		
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)			15.0~24.0°C (59~75°F)		
	Outdoor	D.B.	-5.0~52.0°C (23~126°F)			-5.0~52.0°C (23~126°F)		
Heating capacity (Nominal)	*2	kW	119.5			127.0		
	*2	BTU / h	407,700			433,300		
	Power input	kW	30.40			32.70		
	Current input	A	51.3-48.7-46.9			55.2-52.4-50.5		
	COP	kW / kW	3.93			3.88		
Temp. range of heating	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 connectable	Total capacity	50~130% of outdoor unit capacity			50~130% of outdoor unit capacity			
	Model / Quantity	P15~P250/2~50			P15~P250/2~50			
Sound pressure level (measured in anechoic room)		dB <A>	66.5			66.5		
Sound power level (measured in anechoic room)		dB <A>	87			88		
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed			19.05 (3/4) Brazed		
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed		
Set Model								
Model			PUHY-P250YKB-A1 (-BS)	PUHY-P300YKB-A1 (-BS)	PUHY-P400YKB-A1 (-BS)	PUHY-P300YKB-A1 (-BS)	PUHY-P300YKB-A1 (-BS)	PUHY-P400YKB-A1 (-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 mechanism		Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor		
	*3 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 press.		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 hermetic compressor			Inverter scroll hermetic compressor		
	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			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension 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) x 36-1/4 x 29-3/16	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	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	67-3/8 (65 without legs) x 48-1/16 x 29-3/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP/FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection		
	Compressor		—	—	—	—	—	—
	Fan motor		—	—	—	—	—	—
Refrigerant	Type x original charge		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)	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			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube		
Pipe between unit and distributor	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
	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	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed
Optional parts			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-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 (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 B8615-2.

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

OUTDOOR UNIT

Y Nominal

PUHY-P YSKB-A1(-BS)



► Specifications

Model			PUHY-P1050YSKB-A1 (-BS)			PUHY-P1100YSKB-A1 (-BS)		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz			3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	118.0			124.0		
	*1	BTU / h	402,600			423,100		
	Power input	kW	35.01			38.62		
	Current input	A	59.1-56.1-54.1			65.1-61.9-59.6		
	EER	kW / kW	3.37			3.21		
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)			15.0~24.0°C (59~75°F)		
	Outdoor	D.B.	-5.0~52.0°C (23~126°F)			-5.0~52.0°C (23~126°F)		
Heating capacity (Nominal)	*2	kW	132.0			140.0		
	*2	BTU / h	450,400			477,700		
	Power input	kW	34.25			36.60		
	Current input	A	57.8-54.9-52.9			61.7-58.6-56.5		
	COP	kW / kW	3.85			3.82		
Temp. range of heating	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 connectable	Total capacity	50~130% of outdoor unit capacity			50~130% of outdoor unit capacity			
	Model / Quantity	P15~P250/2~50			P15~P250/2~50			
Sound pressure level (measured in anechoic room)	dB <A>	66.5			66.5			
Sound power level (measured in anechoic room)	dB <A>	88			88			
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed			19.05 (3/4) Brazed		
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed		
Set Model								
Model			PUHY-P300YKB-A1 (-BS)	PUHY-P350YKB-A1 (-BS)	PUHY-P400YKB-A1 (-BS)	PUHY-P350YKB-A1 (-BS)	PUHY-P350YKB-A1 (-BS)	PUHY-P400YKB-A1 (-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	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 mechanism		Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor		
	*3	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
	External static press.		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 hermetic compressor			Inverter scroll hermetic compressor		
	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	—	—	—	—	—	—
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension 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 1,220 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) x 48-1/16 x 29-3/16	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	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	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 devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit (COMP/FAN)	Over-heat protection, Over-current protection			Over-heat protection, Over-current protection			
	Compressor	—	—	—	—	—	—	
	Fan motor	—	—	—	—	—	—	
Refrigerant	Type x original charge	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 11.5 kg (26 lbs)	
Net weight	kg (lbs)	251 (554)	251 (554)	251 (554)	251 (554)	251 (554)	251 (554)	
Heat exchanger		Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube			
Pipe between unit and distributor	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
	Gas pipe	mm (in.)	22.2 (7/8) 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-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-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 (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 B8615-2.

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

OUTDOOR UNIT

Y Nominal

PUHY-P YSKB-A1(-BS)



► Specifications

Model			PUHY-P1150YSKB-A1 (-BS)			PUHY-P1200YSKB-A1 (-BS)			
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz			3-phase 4-wire 380-400-415 V 50/60 Hz			
Cooling capacity (Nominal)	*1	kW	130.0			136.0			
	*1	BTU / h	443,600			464,000			
	Power input	kW	40.24			44.10			
	Current input	A	67.9-64.5-62.2			74.4-70.7-68.1			
Temp. range of cooling	EER	kW / kW	3.23			3.08			
	Indoor	W.B.	15.0-24.0°C (59-75°F)			15.0-24.0°C (59-75°F)			
	Outdoor	D.B.	-5.0-52.0°C (23-126°F)			-5.0-52.0°C (23-126°F)			
	Heating capacity (Nominal)	*2	kW	145.0			150.0		
Heating capacity (Nominal)	*2	BTU / h	494,700			511,800			
	Power input	kW	39.29			40.76			
	Current input	A	66.3-63.0-60.7			68.8-65.3-63.0			
	COP	kW / kW	3.69			3.68			
Temp. range of heating	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 connectable	Total capacity	50~130% of outdoor unit capacity			50~130% of outdoor unit capacity			
	Model / Quantity	P15-P250/2-50			P15-P250/2-50				
Sound pressure level (measured in anechoic room)		dB <A>	68.5			69			
Sound power level (measured in anechoic room)		dB <A>	88.5			88.5			
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed			19.05 (3/4) Brazed			
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed			
Set Model									
Model			PUHY-P350YKB-A1 (-BS)	PUHY-P350YKB-A1 (-BS)	PUHY-P450YKB-A1 (-BS)	PUHY-P350YKB-A1 (-BS)	PUHY-P400YKB-A1 (-BS)	PUHY-P450YKB-A1 (-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 mechanism		Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor			
	*3	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
	External static press.		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 hermetic compressor			Inverter scroll hermetic compressor			
	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			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
External dimension 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		
	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	67-3/8 (65 without legs) x 68-15/16 x 29-3/16	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	67-3/8 (65 without legs) x 68-15/16 x 29-3/16		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection			
	Compressor		—	—	—	—	—	—	
	Fan motor		—	—	—	—	—	—	
Refrigerant	Type x original charge	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.8 kg (27 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)	304 (671)	251 (554)	251 (554)	304 (671)		
Heat exchanger	Salt-resistant cross fin & copper tube								
Pipe between unit and distributor	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	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-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-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 (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 B8615-2.

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

OUTDOOR UNIT

Y Nominal

PUHY-P YSKB-A1(-BS)



► Specifications

Model			PUHY-P1250YSKB-A1 (-BS)			PUHY-P1300YSKB-A1 (-BS)		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz			3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	140.0			146.0		
	*1	BTU / h	477,700			498,200		
	Power input	kW	43.80			47.80		
	Current input	A	73.9-70.2-67.7			80.6-76.6-73.8		
Temp. range of cooling	EER	kW / kW	3.19			3.05		
	Indoor	W.B.	15.0~24.0°C (59~75°F)			15.0~24.0°C (59~75°F)		
	Outdoor	D.B.	-5.0~52.0°C (23~126°F)			-5.0~52.0°C (23~126°F)		
Heating capacity (Nominal)	*2	kW	156.5			163.0		
	*2	BTU / h	534,000			556,200		
	Power input	kW	44.08			46.04		
	Current input	A	74.4-70.6-68.1			77.7-73.8-71.1		
Temp. range of heating	COP	kW / kW	3.55			3.54		
	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 connectable	Total capacity	50~130% of outdoor unit capacity			50~130% of outdoor unit capacity			
	Model / Quantity	P15~P250/2~50			P15~P250/2~50			
Sound pressure level (measured in anechoic room)		dB <A>	70			70		
Sound power level (measured in anechoic room)		dB <A>	89.5			89.5		
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed			19.05 (3/4) Brazed		
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed		
Set Model								
Model			PUHY-P350YKB-A1 (-BS)	PUHY-P450YKB-A1 (-BS)	PUHY-P450YKB-A1 (-BS)	PUHY-P400YKB-A1 (-BS)	PUHY-P450YKB-A1 (-BS)	PUHY-P450YKB-A1 (-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
		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 mechanism		Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor		
	*3	Motor output	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 press.		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 hermetic compressor			Inverter scroll hermetic compressor		
	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			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension 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 1,220 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	67-3/8 (65 without legs) x 68-15/16 x 29-3/16	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	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP/FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection		
	Compressor		—	—	—	—	—	—
	Fan motor		—	—	—	—	—	—
Refrigerant	Type x original charge	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-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube		
Pipe between unit and distributor	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
	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-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-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 (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 B8615-2.

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

OUTDOOR UNIT

Y Nominal

PUHY-P YSKB-A1(-BS)



► Specifications

Model			PUHY-P1350YSKB-A1 (-BS)			
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz			
Cooling capacity (Nominal)	*1	kW	150.0			
	*1	BTU / h	511,800			
	Power input	kW	47.40			
	Current input	A	80.0-76.0-73.2			
Temp. range of cooling	EER	kW / kW	3.16			
	Indoor	W.B.	15.0~24.0°C (59~75°F)			
	Outdoor	D.B.	-5.0~52.0°C (23~126°F)			
Heating capacity (Nominal)	*2	kW	168.0			
	*2	BTU / h	573,200			
	Power input	kW	49.12			
	Current input	A	82.9-78.7-75.9			
Temp. range of heating	COP	kW / kW	3.42			
	Indoor	D.B.	15.0~27.0°C (59~81°F)			
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)			
Indoor unit connectable	Total capacity	50~130% of outdoor unit capacity				
	Model / Quantity	P15~P250/2~50				
Sound pressure level (measured in anechoic room)		dB <A>	71			
Sound power level (measured in anechoic room)		dB <A>	90			
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed			
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed			
Set Model						
Model			PUHY-P450YKB-A1 (-BS)		PUHY-P450YKB-A1 (-BS)	
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2	
	Air flow rate	m³/min	360		360	
		L/s	6,000		6,000	
		cfm	12,712		12,712	
	Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
	Motor output	kW	0.92 x 2		0.92 x 2	
	*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	12.4		12.4	
	Case heater	kW	0.045		0.045	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension HxWxD		mm	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		67-3/8 (65 without legs) x 68-15/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		-		-	
	Fan motor		-		-	
Refrigerant	Type x original charge		R410A x 11.8 kg (27 lbs)		R410A x 11.8 kg (27 lbs)	
Net weight	kg (lbs)		304 (671)		304 (671)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Pipe between unit and distributor	Liquid pipe	mm (in.)	15.88 (5/8) Brazed		15.88 (5/8) Brazed	
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed	
Optional parts			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-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 (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 B8615-2.

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

OUTDOOR UNIT

Single module line-up extension

PUHY-P YKB-A1(-BS)



► Specifications

Model			PUHY-P400YKB-A1 (-BS)	PUHY-P450YKB-A1 (-BS)	PUHY-P500YKB-A1 (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity (Nominal)	*1	kW	45.0	50.0	55.0
	*1	BTU / h	153,500	170,600	187,700
	Power input	kW	13.55	14.79	18.39
	Current input	A	22.8-21.7-20.9	24.9-23.7-22.8	31.0-29.4-28.4
Temp. range of cooling	EER	kW / kW	3.32	3.38	2.99
	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)
	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 (Nominal)	*2	kW	50.0	56.0	63.0
	*2	BTU / h	170,600	191,100	215,000
	Power input	kW	12.50	15.55	18.52
	Current input	A	21.1-20.0-19.3	26.2-24.9-24.0	31.2-29.7-28.6
Temp. range of heating	COP	kW / kW	4.00	3.60	3.40
	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 connectable	Total capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
	Model / Quantity		P15-P250/1~34	P15-P250/1~39	P15-P250/1~43
Sound pressure level (measured in anechoic room)		dB <A>	63	66	66
Sound power level (measured in anechoic room)		dB <A>	83	85	86
Refrigerant piping diameter	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed
	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	210	360	360
		L/s	3,500	6,000	6,000
		cfm	7,415	12,712	12,712
	Driving mechanism		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 press.		0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)
	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
Compressor	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	10.8	12.4	13.3
	Case heater	kW	—	0.045	0.045
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>
External dimension 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	67-3/8 (65 without legs) x 68-15/16 x 29-3/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		—	—	—
	Fan motor		—	—	—
Refrigerant	Type x original charge		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)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
Optional parts			Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G	Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G	Joint: CMY-Y102SS/LS-G2, CMY-Y202S-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.)
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 B8615-2.

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



OUTDOOR UNIT

Y Seasonal

PUHY-EP YLM-A(-BS)



► Specifications

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 (Nominal)		*1	kW	22.4	28.0		33.5		
		*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		
Temp. range of cooling		EER	kW / kW	4.31	4.06		3.91		
		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)		
		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 (Nominal)		*2	kW	25.0	31.5		37.5		
		*2	BTU / h	85,300	107,500		128,000		
		Power input	kW	5.73	7.68		9.16		
		Current input	A	9.6-9.1-8.8	12.9-12.3-11.8		15.4-14.6-14.1		
Temp. range of heating		COP	kW / kW	4.36	4.10		4.09		
		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 connectable		Total capacity	50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		
		Model / Quantity	P15~P250/1~17		P15~P250/1~21		P15~P250/1~26		
Sound pressure level (measured in anechoic room)		dB <A>	57		60		61		
Sound power level (measured in anechoic room)		dB <A>	79.5		80		82		
Refrigerant piping diameter		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)	
		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	m³/min	175		175		200	
			L/s	2,917		2,917		3,333	
			cfm	6,179		6,179		7,062	
		Driving mechanism	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 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		
		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 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension 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 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)		
		Inverter circuit (COMP./FAN)	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
		Compressor	—		—		—		
		Fan motor	—		—		—		
Refrigerant		Type x original charge	R410A x 7.5 kg (17 lbs)		R410A x 7.5 kg (17 lbs)		R410A x 10.3 kg (23 lbs)		
Net weight		kg (lbs)	208 (459)		208 (459)		252 (556)		
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/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.)
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

Y Seasonal

PUHY-EP YLM-A(-BS)

► Specifications



Model			PUHY-EP350YLM-A (-BS)	PUHY-EP400YLM-A (-BS)	PUHY-EP450YLM-A (-BS)	PUHY-EP500YLM-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	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity (Nominal)	*1	kW	40.0	45.0	50.0	56.0
	*1	BTU / h	136,500	153,500	170,600	191,100
		Power input kW	11.69	12.26	14.79	18.72
		Current input A	19.7-18.7-18.0	20.6-19.6-18.9	24.9-23.7-22.8	31.6-30.0-28.9
		EER kW / kW	3.42	3.67	3.38	2.99
Temp. range of cooling	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)	15.0~24.0°C (59~75°F)
	Outdoor	D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)
Heating capacity (Nominal)	*2	kW	45.0	50.0	56.0	63.0
	*2	BTU / h	153,500	170,600	191,100	215,000
		Power input kW	12.53	13.15	16.09	19.68
		Current input A	21.1-20.0-19.3	22.1-21.0-20.3	27.1-25.8-24.8	33.2-31.5-30.4
		COP kW / kW	3.59	3.80	3.48	3.20
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)	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)	-20.0~15.5°C (-4~60°F)
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
	Model / Quantity		P15~P250/1~30	P15~P250/1~34	P15~P250/1~39	P15~P250/1~43
Sound pressure level (measured in anechoic room)		dB <A>	61	62.5	63	63.5
Sound power level (measured in anechoic room)		dB <A>	82.5	82.5	83	83.5
Refrigerant piping diameter	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed
	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
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	200	320	370	370
		L/s	3,333	5,333	6,167	6,167
		cfm	7,062	11,299	13,065	13,065
	Driving mechanism		Inverter-control, Direct-driven by motor	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	0.92 x 2
	*3 External static press.		0 Pa (0 mmH₂O)	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	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	10.5	10.9	12.4	13.4
	Case heater	kW	—	—	—	0.045
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>
External dimension 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 devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		—	—	—	—
	Fan motor		—	—	—	—
Refrigerant	Type x original charge		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		kg (lbs)	252 (556)	318 (702)	318 (702)	332 (732)
Heat exchanger			Salt-resistant cross fin & aluminium tube	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, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G	Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G	Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G	Joint: CMY-Y102SS/LS-G2, CMY-Y202S-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.)
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

Y Seasonal

PUHY-EP YSLM-A(-BS)



► Specifications

Model			PUHY-EP550YSLM-A (-BS)		PUHY-EP600YSLM-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 (Nominal)	*1	kW	63.0		69.0	
	*1	BTU / h	215,000		235,400	
	Power input	kW	16.62		18.59	
	Current input	A	28.0-26.6-25.6		31.3-29.8-28.7	
	EER	kW / kW	3.79		3.71	
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)	
	Outdoor	D.B.	-5.0~52.0°C (23~126°F)		-5.0~52.0°C (23~126°F)	
Heating capacity (Nominal)	*2	kW	69.0		76.5	
	*2	BTU / h	235,400		261,000	
	Power input	kW	17.73		19.66	
	Current input	A	29.9-28.4-27.4		33.1-31.5-30.3	
	COP	kW / kW	3.89		3.89	
Temp. range of heating	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 connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P15~P250/2~47		P15~P250/2~50	
Sound pressure level (measured in anechoic room)		dB <A>	63.5		64	
Sound power level (measured in anechoic room)		dB <A>	84.5		85	
Refrigerant piping diameter	Liquid pipe	mm (in.)	15.88 (5/8) Brazed		15.88 (5/8) Brazed	
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed	
Set Model						
Model			PUHY-EP250YLM-A (-BS)		PUHY-EP300YLM-A (-BS)	
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1	
	Air flow rate	m³/min	175		200	
		L/s	2,917		3,333	
		cfm	6,179		7,062	
	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	6.9		8.1	
Case heater		kW	—		—	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension HxWxD		mm	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 48-1/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		—		—	
	Fan motor		—		—	
Refrigerant	Type x original charge		R410A x 7.5 kg (17 lbs)		R410A x 10.3 kg (23 lbs)	
Net weight	kg (lbs)		208 (459)		252 (556)	
Heat exchanger			Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube	
Pipe between unit and distributor	Liquid pipe	mm (in.)	9.52 (3/8) Brazed		12.7 (1/2) Brazed	
	Gas pipe	mm (in.)	22.2 (7/8) Brazed		28.58 (1-1/8) Brazed	
Optional parts			Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G		Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S-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.)
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

Y Seasonal

PUHY-EP YSLM-A(-BS)



► Specifications

Model			PUHY-EP650YSLM-A (-BS)			PUHY-EP700YSLM-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 (Nominal)	*1	kW	73.0			80.0		
	*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		
Temp. range of cooling	EER	kW / kW	4.02			3.97		
	Indoor	W.B.	15.0~24.0°C (59~75°F)			15.0~24.0°C (59~75°F)		
	Outdoor	D.B.	-5.0~52.0°C (23~126°F)			-5.0~52.0°C (23~126°F)		
	Heating capacity (Nominal)	*2	kW	81.5			88.0	
Heating capacity (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 heating	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 connectable	Total capacity	50~130% of outdoor unit capacity			50~130% of outdoor unit capacity		
	Model / Quantity	P15~P250/2~50			P15~P250/2~50			
Sound pressure level (measured in anechoic room)		dB <A>	63			63.5		
Sound power level (measured in anechoic room)		dB <A>	84.5			85.5		
Refrigerant piping diameter	Liquid pipe	mm (in.)	15.88 (5/8) Brazed			19.05 (3/4) Brazed		
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed			34.93 (1-3/8) Brazed		
Set Model								
Model			PUHY-EP200YLM-A (-BS)	PUHY-EP200YLM-A (-BS)	PUHY-EP250YLM-A (-BS)	PUHY-EP200YLM-A (-BS)	PUHY-EP200YLM-A (-BS)	PUHY-EP300YLM-A (-BS)
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1	Propeller fan x 1		Propeller fan x 1
	Air flow rate	m³/min	175		175	175		200
		L/s	2,917		2,917	2,917		3,333
		cfm	6,179		6,179	6,179		7,062
	Driving mechanism		Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor		
	*3	Motor output	kW	0.92 x 1		0.92 x 1	0.92 x 1		0.92 x 1
Compressor	External static press.		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)
	Type x Quantity		Inverter scroll hermetic compressor			Inverter scroll hermetic compressor		
	Starting method		Inverter		Inverter	Inverter		Inverter
	Motor output	kW	5.6		6.9	5.6		8.1
External finish	Case heater	kW	—		—	—		—
			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
	External dimension 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 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 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 protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection		
	Compressor		—		—	—		—
	Fan motor		—		—	—		—
Refrigerant	Type x original charge		R410A x 7.5 kg (17 lbs)		R410A x 7.5 kg (17 lbs)	R410A x 7.5 kg (17 lbs)		R410A x 10.3 kg (23 lbs)
Net weight		kg (lbs)	208 (459)		208 (459)	208 (459)		252 (556)
Heat exchanger			Salt-resistant cross fin & aluminium tube			Salt-resistant cross fin & aluminium tube		
Pipe between unit and distributor	Liquid pipe	mm (in.)	9.52 (3/8) Brazed		9.52 (3/8) Brazed	9.52 (3/8) Brazed		12.7 (1/2) Brazed
	Gas pipe	mm (in.)	22.2 (7/8) Brazed		22.2 (7/8) Brazed	22.2 (7/8) Brazed		28.58 (1-1/8) Brazed
Optional parts			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-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 (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

Y Seasonal

PUHY-EP YSLM-A(-BS)



► Specifications

Model			PUHY-EP750YSLM-A (-BS)			PUHY-EP800YSLM-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 (Nominal)	*1	kW	85.0			90.0		
	*1	BTU / h	290,000			307,100		
	Power input	kW	21.85			23.43		
	Current input	A	36.8-35.0-33.7			39.5-37.5-36.2		
Temp. range of cooling	EER	kW / kW	3.89			3.84		
	Indoor	W.B.	15.0~24.0°C (59~75°F)			15.0~24.0°C (59~75°F)		
	Outdoor	D.B.	-5.0~52.0°C (23~126°F)			-5.0~52.0°C (23~126°F)		
Heating capacity (Nominal)	*2	kW	95.0			100.0		
	*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		
Temp. range of heating	COP	kW / kW	3.97			3.97		
	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 connectable	Total capacity		50~130% of outdoor unit capacity			50~130% of outdoor unit capacity		
	Model / Quantity		P15~P250/2~50			P15~P250/2~50		
Sound pressure level (measured in anechoic room)	dB <A>		64.5			65		
Sound power level (measured in anechoic room)	dB <A>		85.5			86.5		
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed			19.05 (3/4) Brazed		
	Gas pipe	mm (in.)	34.93 (1-3/8) Brazed			34.93 (1-3/8) Brazed		
Set Model								
Model			PUHY-EP200YLM-A (-BS)	PUHY-EP250YLM-A (-BS)	PUHY-EP300YLM-A (-BS)	PUHY-EP200YLM-A (-BS)	PUHY-EP300YLM-A (-BS)	PUHY-EP300YLM-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	200	175	200	200
		L/s	2,917	2,917	3,333	2,917	3,333	3,333
		cfm	6,179	6,179	7,062	6,179	7,062	7,062
	Driving mechanism		Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor		
	*3	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
Compressor	*3 External static press.		0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)
	Type x Quantity		Inverter scroll hermetic compressor			Inverter scroll hermetic compressor		
	Starting method		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			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension 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	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
	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	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	67-3/8 (65 without legs) x 48-1/16 x 29-3/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection		
	Compressor		—	—	—	—	—	—
	Fan motor		—	—	—	—	—	—
Refrigerant	Type x original charge		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)
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 and distributor	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
	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-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-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 (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

Y Seasonal

PUHY-EP YSLM-A(-BS)



► Specifications

Model			PUHY-EP850YSLM-A (-BS)			PUHY-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		
Cooling capacity (Nominal)	*1	kW	96.0			101.0		
	*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		
Temp. range of cooling	EER	kW / kW	3.76			3.71		
	Indoor	W.B.	15.0~24.0°C (59~75°F)			15.0~24.0°C (59~75°F)		
	Outdoor	D.B.	-5.0~52.0°C (23~126°F)			-5.0~52.0°C (23~126°F)		
	Heating capacity (Nominal)	*2	kW	108.0			113.0	
	*2	BTU / h	368,500			385,600		
	Power input	kW	27.76			29.04		
	Current input	A	46.8-44.5-42.9			49.0-46.5-44.8		
	COP	kW / kW	3.89			3.89		
Temp. range of heating	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 connectable	Total capacity	50~130% of outdoor unit capacity			50~130% of outdoor unit capacity		
	Model / Quantity	P15~P250/2~50			P15~P250/2~50			
Sound pressure level (measured in anechoic room)		dB <A>	65.5			66		
Sound power level (measured in anechoic room)		dB <A>	86.5			87		
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed			19.05 (3/4) Brazed		
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed		
Set Model								
Model			PUHY-EP250YLM-A (-BS)	PUHY-EP300YLM-A (-BS)	PUHY-EP300YLM-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	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m³/min	175	200	200	200	200	200
		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 mechanism		Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor		
	*3 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
Compressor	External static press.		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)
	Type x Quantity		Inverter scroll hermetic compressor			Inverter scroll hermetic compressor		
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	6.9	8.1	8.1	8.1	8.1	8.1
	Case heater	kW	—	—	—	—	—	—
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension 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) x 36-1/4 x 29-3/16	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	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	67-3/8 (65 without legs) x 48-1/16 x 29-3/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection		
	Compressor		—	—	—	—	—	—
	Fan motor		—	—	—	—	—	—
Refrigerant	Type x original charge		R410A x 7.5 kg (17 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)	208 (459)	252 (556)	252 (556)	252 (556)	252 (556)	252 (556)
Heat exchanger			Salt-resistant cross fin & aluminium tube			Salt-resistant cross fin & aluminium tube		
Pipe between unit and distributor	Liquid pipe	mm (in.)	9.52 (3/8) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed
	Gas pipe	mm (in.)	22.2 (7/8) 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-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-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 (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

Y Seasonal

PUHY-EP YSLM-A(-BS)



► Specifications

Model			PUHY-EP950YSLM-A (-BS)			PUHY-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 (Nominal)	*1	kW	108.0			113.0		
	*1	BTU / h	368,500			385,600		
	Power input	kW	30.33			31.04		
	Current input	A	51.2-48.6-46.8			52.4-49.7-47.9		
	EER	kW / kW	3.56			3.64		
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)			15.0~24.0°C (59~75°F)		
	Outdoor	D.B.	-5.0~52.0°C (23~126°F)			-5.0~52.0°C (23~126°F)		
Heating capacity (Nominal)	*2	kW	119.5			127.0		
	*2	BTU / h	407,700			433,300		
	Power input	kW	32.03			33.50		
	Current input	A	54.0-51.3-49.5			56.5-53.7-51.7		
	COP	kW / kW	3.73			3.79		
Temp. range of heating	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 connectable	Total capacity	50~130% of outdoor unit capacity			50~130% of outdoor unit capacity			
	Model / Quantity	P15~P250/2~50			P15~P250/2~50			
Sound pressure level (measured in anechoic room)		dB <A>	66			66.5		
Sound power level (measured in anechoic room)		dB <A>	87			87		
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed			19.05 (3/4) Brazed		
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed			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 1	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 mechanism		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	0.92 x 1	0.92 x 1	0.92 x 2
	*3 External static press.		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 hermetic compressor			Inverter scroll hermetic 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			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension 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 1,220 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 1,750 x 740	
	in.	67-3/8 (65 without legs) x 48-1/16 x 29-3/16	67-3/8 (65 without legs) x 48-1/16 x 29-3/16	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	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 devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection		
	Compressor		—	—	—	—	—	—
	Fan motor		—	—	—	—	—	—
Refrigerant	Type x original charge		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 11.8 kg (27 lbs)
Net weight		kg (lbs)	252 (556)	252 (556)	252 (556)	252 (556)	252 (556)	318 (702)
Heat exchanger			Salt-resistant cross fin & aluminium tube			Salt-resistant cross fin & aluminium tube		
Pipe between unit and distributor	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	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
	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-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-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 (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

Y Seasonal

PUHY-EP YSLM-A(-BS)

► Specifications



Model			PUHY-EP1050YSLM-A (-BS)			PUHY-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 (Nominal)	*1	kW	118.0			124.0		
	*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 cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)			15.0~24.0°C (59~75°F)		
	Outdoor	D.B.	-5.0~52.0°C (23~126°F)			-5.0~52.0°C (23~126°F)		
Heating capacity (Nominal)	*2	kW	132.0			140.0		
	*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 heating	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 connectable	Total capacity	50~130% of outdoor unit capacity			50~130% of outdoor unit capacity			
	Model / Quantity	P15~P250/3~50			P15~P250/3~50			
Sound pressure level (measured in anechoic room)		dB <A>	66.5			66.5		
Sound power level (measured in anechoic room)		dB <A>	87.5			87.5		
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed			19.05 (3/4) Brazed		
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed		
Set Model								
Model			PUHY-EP300YLM-A (-BS)	PUHY-EP350YLM-A (-BS)	PUHY-EP400YLM-A (-BS)	PUHY-EP350YLM-A (-BS)	PUHY-EP350YLM-A (-BS)	PUHY-EP400YLM-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 mechanism		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 2	0.92 x 1	0.92 x 1	0.92 x 2
	*3 External static press.		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 hermetic compressor			Inverter scroll hermetic compressor		
	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	—	—	—	—	—	—
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension 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
		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	67-3/8 (65 without legs) x 68-15/16 x 29-3/16	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	67-3/8 (65 without legs) x 68-15/16 x 29-3/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection		
	Compressor		—	—	—	—	—	—
	Fan motor		—	—	—	—	—	—
Refrigerant	Type x original charge		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-resistant cross fin & aluminium tube			Salt-resistant cross fin & aluminium tube		
Pipe between unit and distributor	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
	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-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-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 (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

Y Seasonal

PUHY-EP YSLM-A (-BS)



► Specifications

Model			PUHY-EP1150YSLM-A (-BS)			PUHY-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 (Nominal)	*1	kW	130.0			136.0		
	*1	BTU / h	443,600			464,000		
	Power input	kW	41.53			42.76		
	Current input	A	70.1-66.6-64.1			72.1-68.5-66.0		
Temp. range of cooling	EER	kW / kW	3.13			3.18		
	Indoor	W.B.	15.0~24.0°C (59~75°F)			15.0~24.0°C (59~75°F)		
	Outdoor	D.B.	-5.0~52.0°C (23~126°F)			-5.0~52.0°C (23~126°F)		
Heating capacity (Nominal)	*2	kW	145.0			150.0		
	*2	BTU / h	494,700			511,800		
	Power input	kW	44.47			45.45		
	Current input	A	75.0-71.3-68.7			76.7-72.8-70.2		
Temp. range of heating	COP	kW / kW	3.26			3.30		
	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 connectable	Total capacity	50~130% of outdoor unit capacity			50~130% of outdoor unit capacity			
	Model / Quantity	P15~P250/3~50			P15~P250/3~50			
Sound pressure level (measured in anechoic room)		dB <A>	66.5			67		
Sound power level (measured in anechoic room)		dB <A>	87.5			87.5		
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed			19.05 (3/4) Brazed		
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed		
Set Model								
Model			PUHY-EP350YLM-A (-BS)	PUHY-EP350YLM-A (-BS)	PUHY-EP450YLM-A (-BS)	PUHY-EP350YLM-A (-BS)	PUHY-EP400YLM-A (-BS)	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 mechanism		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 2	0.92 x 1	0.92 x 2	0.92 x 2
Compressor	*3 External static press.		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)
	Type x Quantity		Inverter scroll hermetic compressor			Inverter scroll hermetic compressor		
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	10.5	10.5	12.4	10.5	10.9	12.4
External finish	Case heater	kW	—	—	—	—	—	—
			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension 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 1,750 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 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 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
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection		
	Compressor		—	—	—	—	—	—
	Fan motor		—	—	—	—	—	—
Refrigerant	Type x original charge		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)	R410A x 11.8 kg (27 lbs)
Net weight		kg (lbs)	252 (556)	252 (556)	318 (702)	252 (556)	318 (702)	318 (702)
Heat exchanger			Salt-resistant cross fin & aluminium tube			Salt-resistant cross fin & aluminium tube		
Pipe between unit and distributor	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	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-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-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 (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

Y Seasonal

PUHY-EP YSLM-A (-BS)



► Specifications

Model			PUHY-EP1250YSLM-A (-BS)			PUHY-EP1300YSLM-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 (Nominal)	*1	kW	140.0			146.0		
	*1	BTU / h	477,700			498,200		
	Power input	kW	45.90			46.94		
	Current input	A	77.4-73.6-70.9			79.2-75.2-72.5		
EER			3.05			3.11		
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)			15.0~24.0°C (59~75°F)		
	Outdoor	D.B.	-5.0~52.0°C (23~126°F)			-5.0~52.0°C (23~126°F)		
Heating capacity (Nominal)	*2	kW	156.5			163.0		
	*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			3.17			3.22		
Temp. range of heating	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 connectable	Total capacity	50~130% of outdoor unit capacity			50~130% of outdoor unit capacity			
	Model / Quantity	P15~P250/3~50			P15~P250/3~50			
Sound pressure level (measured in anechoic room)		dB <A>	67.5			68		
Sound power level (measured in anechoic room)		dB <A>	88			88		
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed			19.05 (3/4) Brazed		
	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	m³/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 mechanism		Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor		
	*3	Motor output	0.92 x 1	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2
External static press.		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 hermetic compressor			Inverter scroll hermetic compressor		
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	10.5	12.4	12.4	10.9	12.4	12.4
	Case heater	kW	—	—	—	—	—	—
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension 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	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	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 devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection		
	Compressor		—	—	—	—	—	—
	Fan motor		—	—	—	—	—	—
Refrigerant	Type x original charge		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-resistant cross fin & aluminium tube			Salt-resistant cross fin & aluminium tube		
Pipe between unit and distributor	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
	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-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-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 (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

Y Seasonal

PUHY-EP YSLM-A(-BS)



► Specifications

Model			PUHY-EP1350YSLM-A (-BS)					
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz					
Cooling capacity (Nominal)	*1	kW	150.0					
	*1	BTU / h	511,800					
	Power input	kW	50.00					
	Current input	A	84.4-80.1-77.2					
Temp. range of cooling	EER	kW / kW	3.00					
	Indoor	W.B.	15.0~24.0°C (59~75°F)					
	Outdoor	D.B.	-5.0~52.0°C (23~126°F)					
Heating capacity (Nominal)	*2	kW	168.0					
	*2	BTU / h	573,200					
	Power input	kW	54.36					
	Current input	A	91.7-87.1-84.0					
Temp. range of heating	COP	kW / kW	3.09					
	Indoor	D.B.	15.0~27.0°C (59~81°F)					
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)					
Indoor unit connectable	Total capacity	50~130% of outdoor unit capacity						
	Model / Quantity	P15~P250/3~50						
Sound pressure level (measured in anechoic room)		dB <A>	68					
Sound power level (measured in anechoic room)		dB <A>	88					
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed					
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed					
Set Model								
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 mechanism		Inverter-control, Direct-driven by motor					
	Motor output	kW	0.92 x 2		0.92 x 2		0.92 x 2	
	*3 External static press.		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor					
	Starting method		Inverter		Inverter		Inverter	
	Motor output	kW	12.4		12.4		12.4	
	Case heater	kW	—		—		—	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>					
External dimension 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		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 devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)					
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection					
	Compressor		—		—		—	
	Fan motor		—		—		—	
Refrigerant	Type x original charge		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)		318 (702)		318 (702)		318 (702)	
Heat exchanger			Salt-resistant cross fin & aluminium tube					
Pipe between unit and distributor	Liquid pipe	mm (in.)	15.88 (5/8) Brazed		15.88 (5/8) Brazed		15.88 (5/8) Brazed	
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed	
Optional parts			Outdoor Twinning kit: CMY-Y300V/BK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-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 (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 Y ZUBADAN PUHY-HP Y(S)HM-A(-BS)

► Specifications



Set name			PUHY-HP200YHM-A(-BS)		PUHY-HP250YHM-A(-BS)		PUHY-HP400YSHM-A(-BS)		PUHY-HP500YSHM-A(-BS)	
Power source			3-phase 4-wire 380-400-415V 50/60Hz							
Cooling capacity (Nominal)	*1	kW	22.4	28.0	45.0	56.0				
		BTU/h	76,400	95,500	153,500	191,100				
		Power input kW	6.40	9.06	12.86	18.16				
		Current input A	10.8-10.2-9.8	15.2-14.5-14.0	21.7-20.6-19.8	30.6-29.1-28.0				
		EER kW/kW	3.50	3.09	3.49	3.08				
Temp. range of cooling	Indoor	W.B.	15 ~ 24°C (59 ~ 75°F)							
	Outdoor	D.B.	- 5 ~ 43°C (23 ~ 109°F)							
Heating capacity (Nominal)	*2	kW	25.0	31.5	50.0	63.0				
		BTU/h	85,300	107,500	170,600	215,000				
		Power input kW	6.52	8.94	13.35	18.04				
		Current input A	11.0-10.4-10.0	15.0-14.3-13.8	22.5-21.4-20.6	30.4-28.9-27.8				
		COP kW/kW	3.83	3.52	3.74	3.49				
Temp. range of heating	Indoor	D.B.	15 ~ 27°C (59 ~ 81°F)							
	Outdoor	W.B.	-25 ~ 15.5°C (-13 ~ 60°F)							
Indoor unit connectable	Total capacity	50 ~ 130% of outdoor unit capacity								
	Model/Quantity	P15~P250 / 1~17		P15 ~ P250 / 1 ~ 21		P15 ~ P250 / 1 ~ 34		P15 ~ P250 / 1 ~ 43		
Sound pressure level (measured in anechoic room)		dB<A>	56	57	59	60				
Diameter of refrigerant pipe	Liquid pipe	mm(in.)	ø12.7 (ø1/2) Brazed	ø12.7 (ø1/2) Brazed	ø15.88 (ø5/8) Brazed	ø15.88 (ø5/8) Brazed				
	Gas pipe	mm(in.)	ø19.05 (ø3/4) Brazed	ø22.2 (ø7/8) Brazed	ø28.58 (ø1-1/8) Brazed	ø28.58 (ø1-1/8) Brazed				
Model			- PUHY-HP200YHM-A(-BS) PUHY-HP200YHM-A(-BS) PUHY-HP250YHM-A(-BS) PUHY-HP250YHM-A(-BS)							
External finish			Pre-coated galvanized steel sheets <MUNSELL 5Y 8/1 or similar>				Pre-coated galvanized steel sheets <MUNSELL 5Y 8/1 or similar>			
External dimension H x W x D		mm	1,710 (without legs 1,650) x 920 x 760	1,710 (without legs 1,650) x 920 x 760	1,710 (without legs 1,650) x 920 x 760	1,710 (without legs 1,650) x 920 x 760	1,710 (without legs 1,650) x 920 x 760	1,710 (without legs 1,650) x 920 x 760		
		in.	67-3/8 (without legs 65) x 36-1/4 x 29-15/16	67-3/8 (without legs 65) x 36-1/4 x 29-15/16	67-3/8 (without legs 65) x 36-1/4 x 29-15/16	67-3/8 (without legs 65) x 36-1/4 x 29-15/16	67-3/8 (without legs 65) x 36-1/4 x 29-15/16	67-3/8 (without legs 65) x 36-1/4 x 29-15/16		
Net weight		kg(lbs)	220 (486)	220 (486)	220 (486)	220 (486)	220 (486)	220 (486)		
Heat exchanger			Salt-resistant cross fin & copper tube				Salt-resistant cross fin & copper tube			
Compressor	Type	Inverter scroll hermetic compressor				Inverter scroll hermetic compressor				
	Starting method	Inverter				Inverter				
FAN	*3	Motor output kW	5.3	6.7	5.3	5.3	6.7	6.7		
		m³/min	225	225	225	225	225	225		
	Air flow rate	L/s	3,750	3,750	3,750	3,750	3,750	3,750		
		cfm	7,945	7,945	7,945	7,945	7,945	7,945		
	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	
	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 press.	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)	0 Pa (0 mmH ₂ O) 0 Pa (0 mmH ₂ O)		
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				
	Inverter circuit (COMP./FAN)	Over-heat protection, Over-current protection				Over-heat protection, Over-current protection				
	Compressor	Over-heat protection				Over-heat protection				
Refrigerant	Type x Original charge	R410A x 9.0kg (20 lbs)		R410A x 9.0kg (20 lbs)		R410A x 9.0kg (20 lbs)	R410A x 9.0kg (20 lbs)	R410A x 9.0kg (20 lbs)	R410A x 9.0kg (20 lbs)	
Pipe between unit distributor	Liquid pipe	mm(in.)	-	-	ø9.52 (ø3/8) Brazed	ø9.52 (ø3/8) Brazed	ø9.52 (ø3/8) Brazed	ø9.52 (ø3/8) Brazed		
	Gas pipe	mm(in.)	-	-	ø19.05 (ø3/4) Brazed	ø19.05 (ø3/4) Brazed	ø22.2 (ø7/8) Brazed	ø22.2 (ø7/8) Brazed		
Optional parts			Joint : CMY-Y102SS-G2 Header : CMY-Y104/108/1010-G				Outdoor Twinning kit : CMY-Y100VBK2 Joint : CMY-Y102SS/LS-G2, CMY-Y202S-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(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.)

*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.

HEAT SOURCE UNIT WY PQHY-P YHM-A



► Specifications

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 (Nominal)	*1	kW	22.4	28.0	33.5	
		BTU / h	76,400	95,500	114,300	
	Power input	kW	3.92	5.45	7.36	
		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 cooling	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)	
	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 (Nominal)	*2	kW	25.0	31.5	37.5	
		BTU / h	85,300	107,500	128,000	
	Power input	kW	4.12	5.80	8.15	
		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 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)	
	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)	
Indoor unit connectable	Total capacity		50~130 % of heat source unit capacity	50~130 % of heat source unit capacity	50~130 % of heat source unit capacity	
	Model / Quantity		P15~P250 / 1~17	P15~P250 / 1~21	P15~P250 / 1~26	
Sound pressure level (measured in anechoic room)		dB <A>	47	49	50	
Refrigerant piping diameter [O.D.]	Liquid pipe	mm (in.)	9.52(3/8) Brazed	9.52(3/8) Brazed (12.7(1/2) Brazed,total length >= 90m)	9.52(3/8) Brazed (12.7(1/2) Brazed,total length >= 40m)	
	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	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				
External dimension 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 devices	High pressure protection		High pressure sensor, High pressure switch at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)	
	Inverter circuit (COMP.) Compressor		Over-heat protection, Over-current protection Over-heat protection	Over-heat protection, Over-current protection Over-heat protection	Over-heat protection, Over-current protection Over-heat protection	
Refrigerant	Type x original charge		R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)	
Net weight		kg (lbs)	195(430)	195(430)	195(430)	
Heat exchanger		plate type				
		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:

*1,*2 Nominal conditions

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

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

HEAT SOURCE UNIT WY PQHY-P YSHM-A



► Specifications

Model			PQHY-P400YSHM-A		PQHY-P450YSHM-A		PQHY-P500YSHM-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 (Nominal)	*1	kW	45.0		50.0		56.0			
		BTU / h	153,500		170,600		191,100			
	Power input	kW	8.25		9.84		11.45			
		A	13.9-13.2-12.7		16.6-15.7-15.2		19.3-18.3-17.6			
	EER	kW / kW	5.45		5.08		4.89			
Temp. range of cooling	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)			
	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 (Nominal)	*2	kW	50.0		56.0		63.0			
		BTU / h	170,600		191,100		215,000			
	Power input	kW	8.65		10.42		12.06			
		A	14.6-13.8-13.3		17.5-16.7-16.1		20.3-19.3-18.6			
	COP	kW / kW	5.78		5.37		5.22			
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)			
	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)			
Indoor unit connectable	Total capacity		50~130 % of heat source unit capacity		50~130 % of heat source unit capacity		50~130 % of heat source unit capacity			
	Model / Quantity		P15~P250 / 1~34		P15~P250 / 1~39		P15~P250 / 1~43			
Sound pressure level (measured in anechoic room)		dB <A>	50		51		52			
Refrigerant piping diameter [O.D.]	Liquid pipe	mm (in.)	12.7(1/2) Brazed		15.88(5/8) Brazed		15.88(5/8) Brazed			
	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-P250YHM-A	
Circulating water	Water flow rate	m³ / h	5.76 + 5.76		5.76 + 5.76		5.76 + 5.76		5.76 + 5.76	
		L/min	96 + 96		96 + 96		96 + 96		96 + 96	
		cfm	3.4 + 3.4		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		4.5 + 4.5 ~ 7.2 + 7.2	
Compressor	Type x Quantity		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Starting method		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			Acrylic painted steel plate		Acrylic painted steel plate		Acrylic painted steel plate		Acrylic painted steel plate	
External dimension 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	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	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 devices	High pressure protection		High pressure sensor, High pressure switch at 4.15MPa (601 psi)		High pressure sensor, High pressure switch at 4.15MPa (601 psi)		High pressure sensor, High pressure switch at 4.15MPa (601 psi)		High pressure sensor, High pressure switch at 4.15MPa (601 psi)	
	Inverter circuit (COMP.)		Over-heat protection, Over-current protection		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	
Refrigerant	Type x original charge		R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)	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 Source Twinning kit: CMY-Y100VBK2 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G		Heat Source Twinning kit: CMY-Y100VBK2 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G		Heat Source Twinning kit: CMY-Y100VBK2 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G			

Notes:

*1,*2 Nominal conditions

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

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

HEAT SOURCE UNIT WY PQHY-P YSHM-A



► Specifications

Model			PQHY-P550YSHM-A		PQHY-P600YSHM-A	
Power source			3-phase 4-wire 380-400-415V 50/60Hz		3-phase 4-wire 380-400-415V 50/60Hz	
Cooling capacity (Nominal)	*1	kW	63.0		69.0	
	*1	BTU / h	215,000		235,400	
		Power input kW	13.46		15.48	
		Current input A	22.7-21.5-20.8		26.1-24.8-23.9	
		EER	kW / kW		4.68	
			4.45			
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C(59~75°F)		15.0~24.0°C(59~75°F)	
	Circulating water	°C	10.0~45.0°C(50~113°F)		10.0~45.0°C(50~113°F)	
Heating capacity (Nominal)	*2	kW	69.0		76.5	
	*2	BTU / h	235,400		261,000	
		Power input kW	14.65		17.12	
		Current input A	24.7-23.4-22.6		28.9-27.4-26.4	
		COP	kW / kW		4.70	
			4.46			
Temp. range of heating	Indoor	D.B.	15.0~27.0°C(59~81°F)		15.0~27.0°C(59~81°F)	
	Circulating water	°C	10.0~45.0°C(50~113°F)		10.0~45.0°C(50~113°F)	
Indoor unit connectable	Total capacity		50~130 % of heat source unit capacity		50~130 % of heat source unit capacity	
	Model / Quantity		P15~P250 / 2~47		P15~P250 / 2~50	
Sound pressure level (measured in anechoic room)		dB <A>	52.5		53	
Refrigerant piping diameter [O.D.]	Liquid pipe	mm (in.)	15.88(5/8) Brazed		15.88(5/8) Brazed	
	Gas pipe	mm (in.)	28.58(1-1/8) Brazed		28.58(1-1/8) Brazed	
Set Model						
Model			PQHY-P300YHM-A		PQHY-P250YHM-A	
Circulating water	Water flow rate	m³ / h	5.76 + 5.76		5.76 + 5.76	
		L/min	96 + 96		96 + 96	
		cfm	3.4 + 3.4		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 hermetic compressor		Inverter scroll hermetic 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 dimension 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	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 devices	High pressure protection		High pressure sensor, High pressure switch at 4.15MPa (601 psi)		High pressure sensor, High pressure switch at 4.15MPa (601 psi)	
	Inverter circuit (COMP.)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection		Over-heat protection	
Refrigerant	Type x original charge		R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)
Net weight	kg (lbs)		195(430)	195(430)	195(430)	195(430)
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			Heat Source Twinning kit: CMY-Y100VBK2 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2,CMY-Y302S-G2 Header:CMY-Y104/108/1010-G		Heat Source Twinning kit: CMY-Y100VBK2 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2,CMY-Y302S-G2 Header:CMY-Y104/108/1010-G	

Notes:

*1,*2 Nominal conditions

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

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

HEAT SOURCE UNIT WY PQHY-P YSHM-A



► Specifications

Model			PQHY-P650YSHM-A			PQHY-P700YSHM-A		
Power source			3-phase 4-wire 380-400-415V 50/60Hz			3-phase 4-wire 380-400-415V 50/60Hz		
Cooling capacity (Nominal)	*1	kW	73.0			80.0		
	*1	BTU / h	249,100			273,000		
	Power input	kW	13.96			15.58		
	Current input	A	23.5-22.3-21.5			26.3-24.9-24.0		
Temp. range of cooling	EER	kW / kW	5.22			5.13		
	Indoor	W.B.	15.0~24.0°C(59~75°F)			15.0~24.0°C(59~75°F)		
	Circulating water	°C	10.0~45.0°C(50~113°F)			10.0~45.0°C(50~113°F)		
Heating capacity (Nominal)	*2	kW	81.5			88.0		
	*2	BTU / h	278,100			300,300		
	Power input	kW	14.74			16.51		
	Current input	A	24.8-23.6-22.7			27.8-26.4-25.5		
Temp. range of heating	COP	kW / kW	5.52			5.33		
	Indoor	D.B.	15.0~27.0°C(59~81°F)			15.0~27.0°C(59~81°F)		
	Circulating water	°C	10.0~45.0°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 level (measured in anechoic room)		dB <A>	53			53.5		
Refrigerant piping diameter [O.D.]	Liquid pipe	mm (in.)	19.05(3/4) Brazed			19.05(3/4) Brazed		
	Gas 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	Water 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		
	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		Inverter scroll hermetic compressor			Inverter scroll hermetic compressor		
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	6.3	4.6	4.6	6.3	6.3	4.6
	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			Acrylic painted steel plate			Acrylic painted steel plate		
External dimension 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	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	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 devices	High pressure protection		High pressure sensor, High pressure switch at 4.15MPa (601 psi)			High pressure sensor, High pressure switch at 4.15MPa (601 psi)		
	Inverter circuit (COMP.)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection		
	Compressor		Over-heat protection			Over-heat protection		
Refrigerant	Type x original charge		R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)	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 Source Twinning kit: CMY-Y300VBK2 Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-Y202S-G2,CMY-Y302S-G2 Header: CMY-Y104/108/1010-G			Heat Source Twinning kit: CMY-Y300VBK2 Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-Y202S-G2,CMY-Y302S-G2 Header: CMY-Y104/108/1010-G		

Notes:

*1,*2 Nominal conditions

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

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

HEAT SOURCE UNIT WY PQHY-P YSHM-A



► Specifications

Model			PQHY-P750YSHM-A			PQHY-P800YSHM-A			
Power source			3-phase 4-wire 380-400-415V 50/60Hz			3-phase 4-wire 380-400-415V 50/60Hz			
Cooling capacity (Nominal)	*1	kW	85.0			90.0			
	*1	BTU / h	290,000			307,100			
	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			
	Indoor	W.B.	15.0~24.0°C(59~75°F)			15.0~24.0°C(59~75°F)			
	Circulating water	°C	10.0~45.0°C(50~113°F)			10.0~45.0°C(50~113°F)			
Heating capacity (Nominal)	*2	kW	95.0			100.0			
	*2	BTU / h	324,100			341,200			
	Power input	kW	18.27			20.74			
	Current input	A	30.8-29.3-28.2			35.0-33.2-32.0			
COP	kW / kW		5.19			4.82			
	Indoor	D.B.	15.0~27.0°C(59~81°F)			15.0~27.0°C(59~81°F)			
	Circulating water	°C	10.0~45.0°C(50~113°F)			10.0~45.0°C(50~113°F)			
Indoor unit connectable	Total capacity		50~130 % of heat source unit capacity			50~130 % of heat source unit capacity			
	Model / Quantity		P15~P250 / 2~50			P15~P250 / 2~50			
Sound pressure level (measured in anechoic room)		dB <A>	54			54			
Refrigerant piping diameter [O.D.]	Liquid pipe	mm (in.)	19.05(3/4) Brazed			19.05(3/4) Brazed			
	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		m ³ / 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		Inverter scroll hermetic compressor			Inverter scroll hermetic compressor			
	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			Acrylic painted steel plate			Acrylic painted steel plate			
External dimension 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	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	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	45-11/16(43-5/16 without legs) x 34-11/16 x 21-11/16	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15MPa (601 psi)			High pressure sensor, High pressure switch at 4.15MPa (601 psi)				
	Inverter circuit (COMP.)	Over-heat protection, Over-current protection			Over-heat protection, Over-current protection				
Compressor		Over-heat protection			Over-heat protection				
Refrigerant	Type x original charge	R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)		
Net weight		kg (lbs)	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 Source Twinning kit: CMY-Y300VBK2 Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-Y202S-G2,CMY-Y302S-G2 Header: CMY-Y104/108/1010-G			Heat Source Twinning kit: CMY-Y300VBK2 Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-Y202S-G2,CMY-Y302S-G2 Header: CMY-Y104/108/1010-G				

Notes:

*1,*2 Nominal conditions

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

*3 The ambient temperature of the heat source unit needs to be kept below 40°C D.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 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 Y Replace Multi PUHY-RP YJM-B(-BS)



► Specifications

Model			PUHY-RP200YJM-B (-BS)	PUHY-RP250YJM-B (-BS)	PUHY-RP300YJM-B (-BS)	PUHY-RP350YJM-B (-BS)	
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	3-phase 4-wire 380-400-415V 50/60Hz	
Cooling capacity (Nominal)	*1	kW	22.4	28.0	33.5	40.0	
		kcal / h	19,300	24,100	28,800	34,400	
	*1	BTU / h	76,400	95,500	114,300	136,500	
		Power input	kW	5.68	7.62	8.98	11.79
		Current input	A	9.5-9.1-8.7	12.8-12.2-11.7	15.1-14.4-13.8	19.9-18.9-18.2
	EER	kW / kW	3.94	3.67	3.73	3.39	
Temp. range of cooling	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)	15.0~24.0°C (59~75°F)	
	Outdoor	D.B.	-5.0~43.0°C (23~109°F)	-5.0~43.0°C (23~109°F)	-5.0~43.0°C (23~109°F)	-5.0~43.0°C (23~109°F)	
Heating capacity (Nominal)	*2	kW	25.0	31.5	37.5	45.0	
		kcal / h	21,500	27,100	32,300	38,700	
	*2	BTU / h	85,300	107,500	128,000	153,500	
		Power input	kW	5.69	7.22	9.42	12.60
		Current input	A	9.6-9.1-8.7	12.1-11.5-11.1	15.9-15.1-14.5	21.2-20.2-19.4
	COP	kW / kW	4.39	4.36	3.98	3.57	
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)	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)	-20.0~15.5°C (-4~60°F)	
Indoor unit connectable	Total capacity		50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	
	Model / Quantity		P15~P250 / 1~17	P15~P250 / 1~21	P15~P250 / 1~26	P15~P250 / 1~30	
Sound pressure level (measured in anechoic room)		dB <A>	56	57	59	60	
Refrigerant piping diameter	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed	
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	
	Air flow rate	m³/min	185	185	185	185	
		L/s	3,083	3,083	3,083	3,083	
		cfm	6,532	6,532	6,532	6,532	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor	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	0.92 x 1	
	*3 External static press.		0 Pa (0 mmH₂O)	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	Inverter scroll hermetic compressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	4.8	6.8	8.2	9.9	
	Case heater	kW	0.035 (240V)	0.045 (240V)	0.045 (240V)	0.045 (240V)	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension HxWxD		mm	1,710(1,650 without legs) x 920 x 760	1,710(1,650 without legs) x 920 x 760	1,710(1,650 without legs) x 920 x 760	1,710(1,650 without legs) x 920 x 760	
		in.	67-3/8 (65 without legs) x 36-1/4 x 29-15/16	67-3/8 (65 without legs) x 36-1/4 x 29-15/16	67-3/8 (65 without legs) x 36-1/4 x 29-15/16	67-3/8 (65 without legs) x 36-1/4 x 29-15/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15.3MPa (601.479 psi)	High pressure sensor, High pressure switch at 4.15.3MPa (601.479 psi)	High pressure sensor, High pressure switch at 4.15.3MPa (601.479 psi)	High pressure sensor, High pressure switch at 4.15.3MPa (601.479 psi)	
	Inverter circuit (COMP/ FAN)		Over-heat protection, Over-current protection	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	
	Fan motor		Thermal switch	Thermal switch	Thermal switch	Thermal switch	
Refrigerant	Type x original charge		R410A x 6.5kg (15lbs)	R410A x 9.0kg (20lbs)	R410A x 9.0kg (20lbs)	R410A x 9.0kg (20lbs)	
Net weight	kg (lbs)		230(508)	255 (563)	255 (563)	255 (563)	
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	
Optional parts			Header: CMY-Y104/108/1010-G	Header: CMY-Y104/108/1010-G	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°CDB/19°CWB (81°FDB/66°FWB)	35°CDB (95°FDB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°CDB(68°FDB)	7°CDB/6°CWB (45°FDB/43°FWB)	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 specifications may be subject to change without notice.

*Our company is unable to guarantee reliability of pre-existing pipes and pre-existing cables.

OUTDOOR UNIT Y Replace Multi PUHY-RP YSJM-B(-BS)



► Specifications

Model			PUHY-RP400YSJM-B (-BS)		PUHY-RP450YSJM-B (-BS)	
Power source			3-phase 4-wire 380-400-415V 50/60Hz		3-phase 4-wire 380-400-415V 50/60Hz	
Cooling capacity (Nominal)	*1	kW	45.0		50.0	
	*1	kcal / h	38,700		43,000	
	*1	BTU / h	153,500		170,600	
	Power input	kW	11.87		13.77	
	Current input	A	20.0-19.0-18.3		23.2-22.0-21.2	
	EER	kW / kW	3.79		3.63	
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)	
	Outdoor	D.B.	-5.0~43.0°C (23~109°F)		-5.0~43.0°C (23~109°F)	
Heating capacity (Nominal)	*2	kW	50.0		56.0	
	*2	kcal / h	43,000		48,200	
	*2	BTU / h	170,600		191,100	
	Power input	kW	11.38		12.81	
	Current input	A	19.2-18.2-17.5		21.6-20.5-19.8	
	COP	kW / kW	4.39		4.37	
Temp. range of heating	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 connectable	Total capacity		50~130 % of outdoor unit capacity		50~130 % of outdoor unit capacity	
	Model / Quantity		P15~P250 / 1~32		P15~P250 / 1~32	
Sound pressure level (measured in anechoic room)		dB <A>	59		59.5	
Refrigerant piping diameter	Liquid pipe	mm (in.)	15.88 (5/8) Brazed		15.88 (5/8) Brazed	
	Gas pipe	mm (in.)	34.93 (1-3/8) Brazed		34.93 (1-3/8) Brazed	
Set Model						
Model			PUHY-RP200YJM-B (-BS)		PUHY-RP200YJM-B (-BS)	
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1	
	Air flow rate	m³/min	185		185	
		L/s	3,083		3,083	
		cfm	6,532		6,532	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
	Motor output	kW	0.92 x 1		0.92 x 1	
	*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	4.8		4.8	
	Case heater	kW	0.035 (240V)		0.035 (240V)	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension HxWxD		mm	1,710 (1,650 without legs) x 920 x 760		1,710 (1,650 without legs) x 920 x 760	
		in.	67-3/8 (65 without legs) x 36-1/4 x 29-15/16		67-3/8 (65 without legs) x 36-1/4 x 29-15/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15,3.3MPa (601,479 psi)		High pressure sensor, High pressure switch at 4.15,3.3MPa (601,479 psi)	
	Inverter circuit (COMP./ FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection		Over-heat protection	
	Fan motor		Thermal switch		Thermal switch	
Refrigerant	Type x original charge		R410A x 6.5kg (15lbs)		R410A x 6.5kg (15lbs)	
Net weight		kg (lbs)	230 (508)		230 (508)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Pipe between unit and distributor	Liquid pipe	mm (in.)	9.52 (3/8) Brazed		9.52 (3/8) Brazed	
	Gas pipe	mm (in.)	19.05 (3/4) Brazed		19.05 (3/4) Brazed	
Optional parts			Outdoor Twinning kit: CMY-RP100VBK Header: CMY-Y104/108/1010-G		Outdoor Twinning kit: CMY-RP100VBK Header: CMY-Y104/108/1010-G	

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°CDB/19°CWB (81°FDB/66°FWB)	35°CDB (95°FDB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°CDB(68°FDB)	7°CDB(6°FDB) (45°FDB/43°FWB)	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 specifications may be subject to change without notice.

*Our company is unable to guarantee reliability of pre-existing pipes and pre-existing cables.

OUTDOOR UNIT Y Replace Multi PUHY-RP YSJM-B(-BS)



► Specifications

Model			PUHY-RP500YSJM-B (-BS)		PUHY-RP550YSJM-B (-BS)					
Power source			3-phase 4-wire 380-400-415V 50/60Hz		3-phase 4-wire 380-400-415V 50/60Hz					
Cooling capacity (Nominal)	*1	kW	56.0		63.0					
		kcal / h	48,200		54,200					
		BTU / h	191,100		215,000					
	Power input	kW	15.68		17.50					
	Current input	A	26.4-25.1-24.2		29.5-28.0-27.0					
EER	kW / kW	3.57		3.60						
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)					
	Outdoor	D.B.	-5.0~43.0°C (23~109°F)		-5.0~43.0°C (23~109°F)					
Heating capacity (Nominal)	*2	kW	63.0		69.0					
		kcal / h	54,200		59,300					
		BTU / h	215,000		235,400					
	Power input	kW	14.44		16.62					
	Current input	A	24.3-23.1-22.3		28.0-26.6-25.6					
COP	kW / kW	4.36		4.15						
Temp. range of heating	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 connectable	Total capacity	50~130 % of outdoor unit capacity		50~130 % of outdoor unit capacity						
	Model / Quantity	P15~P250 / 1~32		P15~P250 / 1~32						
Sound pressure level (measured in anechoic room)	dB <A>	60		61						
Refrigerant piping diameter	Liquid pipe	mm (in.)	15.88 (5/8) Brazed		15.88 (5/8) Brazed					
	Gas pipe	mm (in.)	34.93 (1-3/8) Brazed		34.93 (1-3/8) Brazed					
Set Model										
Model			PUHY-RP250YJM-B (-BS)		PUHY-RP250YJM-B (-BS)					
FAN	Type x Quantity	Propeller fan x 1		Propeller fan x 1		Propeller fan x 1				
	Air flow rate	m³/min	185		185		185			
		L/s	3,083		3,083		3,083			
		cfm	6,532		6,532		6,532			
	Control, Driving mechanism	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 press.	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	6.8		6.8		8.2			
	Case heater	kW	0.045 (240V)		0.045 (240V)		0.045 (240V)			
External finish		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>				
External dimension HxWxD		mm	1,710 (1,650 without legs) x 920 x 760		1,710 (1,650 without legs) x 920 x 760		1,710 (1,650 without legs) x 920 x 760			
		in.	67-3/8 (65 without legs) x 36-1/4 x 29-15/16		67-3/8 (65 without legs) x 36-1/4 x 29-15/16		67-3/8 (65 without legs) x 36-1/4 x 29-15/16			
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15.3.3MPa (601.479 psi)		High pressure sensor, High pressure switch at 4.15.3.3MPa (601.479 psi)		High pressure sensor, High pressure switch at 4.15.3.3MPa (601.479 psi)			
	Inverter circuit (COMP./ 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			
Refrigerant	Fan motor		Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch		
	Type x original charge		R410A x 9.0kg (20lbs)		R410A x 9.0kg (20lbs)		R410A x 9.0kg (20lbs)			
Net weight	kg (lbs)	255 (563)		255 (563)		255 (563)		255 (563)		
Heat exchanger		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		
Pipe between unit and distributor	Liquid pipe	mm (in.)	9.52 (3/8) Brazed		9.52 (3/8) Brazed		9.52 (3/8) Brazed		12.7 (1/2) Brazed	
	Gas pipe	mm (in.)	22.2 (7/8) Brazed		22.2 (7/8) Brazed		22.2 (7/8) Brazed		22.2 (7/8) Brazed	
Optional parts		Outdoor Twinning kit: CMY-RP100VBK Header: CMY-Y104/108/1010-G		Outdoor Twinning kit: CMY-RP100VBK Header: CMY-Y104/108/1010-G		Outdoor Twinning kit: CMY-RP100VBK Header: CMY-Y104/108/1010-G		Outdoor Twinning kit: CMY-RP100VBK Header: CMY-Y104/108/1010-G		

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°CDB/19°CWB (81°FDB/66°FWB)	35°CDB (95°FDB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°CDB(68°FDB)	7°CDB/6°CWB (45°FDB/43°FWB)	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 specifications may be subject to change without notice.

*Our company is unable to guarantee reliability of pre-existing pipes and pre-existing cables.

OUTDOOR UNIT Y Replace Multi PUHY-RP YSJM-B(-BS)



► Specifications

Model			PUHY-RP600YSJM-B (-BS)		PUHY-RP650YSJM-B (-BS)						
Power source			3-phase 4-wire 380-400-415V 50/60Hz		3-phase 4-wire 380-400-415V 50/60Hz						
Cooling capacity (Nominal)	*1	kW	69.0		73.0						
	*1	kcal / h	59,300		62,800						
	*1	BTU / h	235,400		249,100						
	Power input	kW	18.59		21.09						
	Current input	A	31.3-29.8-28.7		35.6-33.8-32.6						
	EER	kW / kW	3.71		3.46						
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)						
	Outdoor	D.B.	-5.0~43.0°C (23~109°F)		-5.0~43.0°C (23~109°F)						
Heating capacity (Nominal)	*2	kW	76.5		81.5						
	*2	kcal / h	65,800		70,100						
	*2	BTU / h	261,000		278,100						
	Power input	kW	19.22		21.73						
	Current input	A	32.4-30.8-29.7		36.6-34.8-33.5						
	COP	kW / kW	3.98		3.75						
Temp. range of heating	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 connectable	Total capacity		50~130 % of outdoor unit capacity		50~130 % of outdoor unit capacity						
	Model / Quantity		P15~P250 / 1~32		P15~P250 / 1~32						
Sound pressure level (measured in anechoic room)		dB <A>	62		62.5						
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed		19.05 (3/4) Brazed						
	Gas pipe	mm (in.)	34.93 (1-3/8) Brazed		41.28 (1-5/8) Brazed						
Set Model											
Model			PUHY-RP300YJM-B (-BS)		PUHY-RP300YJM-B (-BS)		PUHY-RP300YJM-B (-BS)		PUHY-RP350YJM-B (-BS)		
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1		Propeller fan x 1		Propeller fan x 1		
	Air flow rate	m³/min	185		185		185		185		
		L/s	3,083		3,083		3,083		3,083		
		cfm	6,532		6,532		6,532		6,532		
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		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		0.92 x 1		
	*3	External static press.	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 hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		
	Starting method		Inverter		Inverter		Inverter		Inverter		
	Motor output	kW	8.2		8.2		8.2		9.9		
	Case heater	kW	0.045 (240V)		0.045 (240V)		0.045 (240V)		0.045 (240V)		
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD		mm	1,710 (1,650 without legs) x 920 x 760		1,710 (1,650 without legs) x 920 x 760		1,710 (1,650 without legs) x 920 x 760		1,710 (1,650 without legs) x 920 x 760		
		in.	67-3/8 (65 without legs) x 36-1/4 x 29-15/16		67-3/8 (65 without legs) x 36-1/4 x 29-15/16		67-3/8 (65 without legs) x 36-1/4 x 29-15/16		67-3/8 (65 without legs) x 36-1/4 x 29-15/16		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15,3.3MPa (601,479 psi)			High pressure sensor, High pressure switch at 4.15,3.3MPa (601,479 psi)			High pressure sensor, High pressure switch at 4.15,3.3MPa (601,479 psi)		
	Inverter circuit (COMP./ 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		Thermal switch		Thermal switch		Thermal switch		Thermal switch		
Refrigerant	Type x original charge		R410A x 9.0kg (20lbs)		R410A x 9.0kg (20lbs)		R410A x 9.0kg (20lbs)		R410A x 9.0kg (20lbs)		
Net weight	kg (lbs)		255 (563)		255 (563)		255 (563)		255 (563)		
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube		
Pipe between unit and distributor	Liquid pipe	mm (in.)	12.7 (1/2) Brazed		12.7 (1/2) Brazed		12.7 (1/2) Brazed		12.7 (1/2) Brazed		
	Gas pipe	mm (in.)	22.2 (7/8) Brazed		22.2 (7/8) Brazed		22.2 (7/8) Brazed		28.58 (1-1/8) Brazed		
Optional parts			Outdoor Twinning kit: CMY-RP100VBK Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-RP100VBK Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-RP100VBK Header: CMY-Y104/108/1010-G		

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°CDB/19°CWB (81°FDB/66°FWB)	35°CDB (95°FDB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°CDB(68°FDB)	7°CDB(6°FDB) (45°FDB/43°FWB)	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 specifications may be subject to change without notice.

*Our company is unable to guarantee reliability of pre-existing pipes and pre-existing cables.

OUTDOOR UNIT Y Replace Multi PUHY-RP YSJM-B(-BS)



► Specifications

Model			PUHY-RP700YSJM-B (-BS)			PUHY-RP750YSJM-B (-BS)			PUHY-RP800YSJM-B (-BS)		
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 (Nominal)	*1	kW	80.0			85.0			90.0		
		kcal / h	68,800			73,100			77,400		
		BTU / h	273,000			290,000			307,100		
	Power input	kW	22.22			24.14			25.49		
		Current input	A	37.5-35.6-34.3			40.7-38.7-37.3			43.0-40.8-39.4	
Temp. range of cooling	EER		3.60			3.52			3.53		
	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)		
		D.B.	-5.0~43.0°C (23~109°F)			-5.0~43.0°C (23~109°F)			-5.0~43.0°C (23~109°F)		
Heating capacity (Nominal)	*2	kW	88.0			95.0			100.0		
		kcal / h	75,700			81,700			86,100		
		BTU / h	300,300			324,100			341,200		
	Power input	kW	20.13			21.78			23.75		
		Current input	A	33.9-32.2-31.1			36.7-34.9-33.6			40.0-38.0-36.7	
Temp. range of heating	COP		4.37			4.36			4.21		
	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)		
		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			50~130 % of outdoor unit capacity			50~130 % of outdoor unit capacity		
	Model / Quantity		P15~P250 / 1~32			P15~P250 / 1~32			P15~P250 / 1~32		
Sound pressure level (measured in anechoic room)		dB <A>	61.5			62			62.5		
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed			19.05 (3/4) Brazed			19.05 (3/4) Brazed		
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed		
Set Model											
Model			PUHY-RP200 YJM-B(-BS)	PUHY-RP250 YJM-B(-BS)	PUHY-RP250 YJM-B(-BS)	PUHY-RP250 YJM-B(-BS)	PUHY-RP250 YJM-B(-BS)	PUHY-RP250 YJM-B(-BS)	PUHY-RP250 YJM-B(-BS)	PUHY-RP250 YJM-B(-BS)	PUHY-RP300 YJM-B(-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	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m³/min	185	185	185	185	185	185	185	185	185
		L/s	3.083	3.083	3.083	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	6.532	6.532	6.532
	Control, Driving mechanism		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	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 press.		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)	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	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	4.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	8.2
	Case heater	kW	0.035 (240V)	0.045 (240V)	0.045 (240V)	0.045 (240V)	0.045 (240V)	0.045 (240V)	0.045 (240V)	0.045 (240V)	0.045 (240V)
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD		mm	1,710 (1,650 without legs) x 920 x 760	1,710 (1,650 without legs) x 920 x 760	1,710 (1,650 without legs) x 920 x 760	1,710 (1,650 without legs) x 920 x 760	1,710 (1,650 without legs) x 920 x 760	1,710 (1,650 without legs) x 920 x 760	1,710 (1,650 without legs) x 920 x 760	1,710 (1,650 without legs) x 920 x 760	
			67-3/8 (65 without legs) x 36-1/4 x 29-15/16	67-3/8 (65 without legs) x 36-1/4 x 29-15/16	67-3/8 (65 without legs) x 36-1/4 x 29-15/16	67-3/8 (65 without legs) x 36-1/4 x 29-15/16	67-3/8 (65 without legs) x 36-1/4 x 29-15/16	67-3/8 (65 without legs) x 36-1/4 x 29-15/16	67-3/8 (65 without legs) x 36-1/4 x 29-15/16	67-3/8 (65 without legs) x 36-1/4 x 29-15/16	
		in.	1,710 (1,650 without legs) x 36-1/4 x 29-15/16	1,710 (1,650 without legs) x 36-1/4 x 29-15/16	1,710 (1,650 without legs) x 36-1/4 x 29-15/16	1,710 (1,650 without legs) x 36-1/4 x 29-15/16	1,710 (1,650 without legs) x 36-1/4 x 29-15/16	1,710 (1,650 without legs) x 36-1/4 x 29-15/16	1,710 (1,650 without legs) x 36-1/4 x 29-15/16	1,710 (1,650 without legs) x 36-1/4 x 29-15/16	1,710 (1,650 without legs) x 36-1/4 x 29-15/16
			67-3/8 (65 without legs) x 36-1/4 x 29-15/16	67-3/8 (65 without legs) x 36-1/4 x 29-15/16	67-3/8 (65 without legs) x 36-1/4 x 29-15/16	67-3/8 (65 without legs) x 36-1/4 x 29-15/16	67-3/8 (65 without legs) x 36-1/4 x 29-15/16	67-3/8 (65 without legs) x 36-1/4 x 29-15/16	67-3/8 (65 without legs) x 36-1/4 x 29-15/16	67-3/8 (65 without legs) x 36-1/4 x 29-15/16	67-3/8 (65 without legs) x 36-1/4 x 29-15/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15,3.3MPa (601,479 psi)			High pressure sensor, High pressure switch at 4.15,3.3MPa (601,479 psi)			High pressure sensor, High pressure switch at 4.15,3.3MPa (601,479 psi)		
	Inverter circuit (COMP./ 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		Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch
Refrigerant	Type x original charge		R410A x 6.5kg (15lbs)	R410A x 9.0kg (20lbs)	R410A x 9.0kg (20lbs)	R410A x 9.0kg (20lbs)	R410A x 9.0kg (20lbs)	R410A x 9.0kg (20lbs)	R410A x 9.0kg (20lbs)	R410A x 9.0kg (20lbs)	R410A x 9.0kg (20lbs)
Net weight			230 (508)	255 (563)	255 (563)	255 (563)	255 (563)	255 (563)	255 (563)	255 (563)	255 (563)
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube		
Pipe between unit and distributor	Liquid pipe	mm (in.)	9.52 (3/8) Braze	9.52 (3/8) Braze	9.52 (3/8) Braze	9.52 (3/8) Braze	9.52 (3/8) Braze	9.52 (3/8) Braze	9.52 (3/8) Braze	9.52 (3/8) Braze	12.7 (1/2) Braze
		Gas pipe	mm (in.)	22.2 (7/8) Braze	22.2 (7/8) Braze	22.2 (7/8) Braze	22.2 (7/8) Braze	22.2 (7/8) Braze	22.2 (7/8) Braze	22.2 (7/8) Braze	22.2 (7/8) Braze
Optional parts			Outdoor Twinning kit: CMY-RP200VBK Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-RP200VBK Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-RP200VBK Header: CMY-Y104/108/1010-G		

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°CDB/19°CWB (81°FDB/66°FWB)	35°CDB (95°FDB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°CDB(68°FDB)	7°CDB/6°CWB (45°FDB/43°FWB)	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 specifications may be subject to change without notice.

*Our company is unable to guarantee reliability of pre-existing pipes and pre-existing cables.

OUTDOOR UNIT Y Replace Multi PUHY-RP YSJM-B(-BS)



► Specifications

Model			PUHY-RP850YSJM-B (-BS)			PUHY-RP900YSJM-B (-BS)		
Power source			3-phase 4-wire 380-400-415V 50/60Hz			3-phase 4-wire 380-400-415V 50/60Hz		
Cooling capacity (Nominal)	*1	kW	96.0			101.0		
		kcal / h	82,600			86,900		
		BTU / h	327,600			344,600		
	Power input	kW	27.11			28.29		
	Current input	A	45.7-43.4-41.9			47.7-45.3-43.7		
	EER	kW / kW	3.54			3.57		
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)			15.0~24.0°C (59~75°F)		
	Outdoor	D.B.	-5.0~43.0°C (23~109°F)			-5.0~43.0°C (23~109°F)		
Heating capacity (Nominal)	*2	kW	108.0			113.0		
		kcal / h	92,900			97,200		
		BTU / h	368,500			385,600		
	Power input	kW	26.47			28.39		
	Current input	A	44.6-42.4-40.9			47.9-45.5-43.8		
	COP	kW / kW	4.08			3.98		
Temp. range of heating	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 connectable	Total capacity		50~130 % of outdoor unit capacity			50~130 % of outdoor unit capacity		
	Model / Quantity		P15~P250 / 1~32			P15~P250 / 1~32		
Sound pressure level (measured in anechoic room)		dB <A>	63.5			64		
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed			19.05 (3/4) Brazed		
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed		
Set Model								
Model			PUHY-RP250 YJM-B(-BS)	PUHY-RP300 YJM-B(-BS)	PUHY-RP300 YJM-B(-BS)	PUHY-RP300 YJM-B(-BS)	PUHY-RP300 YJM-B(-BS)	PUHY-RP300 YJM-B(-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	185	185	185
		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
	Control, Driving mechanism		Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor		
	*3	Motor output	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 press.	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 hermetic compressor			Inverter scroll hermetic compressor		
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	6.8	8.2	8.2	8.2	8.2	8.2
	Case heater	kW	0.045 (240V)	0.045 (240V)	0.045 (240V)	0.045 (240V)	0.045 (240V)	0.045 (240V)
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD	mm		1,710 (1,650 without legs) x 920 x 760	1,710 (1,650 without legs) x 920 x 760	1,710 (1,650 without legs) x 920 x 760	1,710 (1,650 without legs) x 920 x 760	1,710 (1,650 without legs) x 920 x 760	1,710 (1,650 without legs) x 920 x 760
		in.	67-3/8 (65 without legs) x 36-1/4 x 29- 15/16	67-3/8 (65 without legs) x 36-1/4 x 29- 15/16	67-3/8 (65 without legs) x 36-1/4 x 29- 15/16	67-3/8 (65 without legs) x 36-1/4 x 29- 15/16	67-3/8 (65 without legs) x 36-1/4 x 29- 15/16	67-3/8 (65 without legs) x 36-1/4 x 29- 15/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15,3.3MPa (601,479 psi)			High pressure sensor, High pressure switch at 4.15,3.3MPa (601,479 psi)		
	Inverter circuit (COMP./ FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection		
	Compressor		Over-heat protection			Over-heat protection		
Refrigerant	Fan motor		Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch
	Type x original charge		R410A x 9.0kg (20lbs)	R410A x 9.0kg (20lbs)	R410A x 9.0kg (20lbs)	R410A x 9.0kg (20lbs)	R410A x 9.0kg (20lbs)	R410A x 9.0kg (20lbs)
Net weight		kg (lbs)	255 (563)	255 (563)	255 (563)	255 (563)	255 (563)	255 (563)
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube		
Pipe between unit and distributor	Liquid pipe	mm (in.)	9.52 (3/8) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed
	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	28.58 (7/8) Brazed
Optional parts			Outdoor Twinning kit: CMY-RP200VBK Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-RP200VBK Header: CMY-Y104/108/1010-G		

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°CDB/19°CWB (81°FDB/66°FWB)	35°CDB (95°FDB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°CDB(68°FDB)	7°CDB/6°CWB (45°FDB/43°FWB)	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 specifications may be subject to change without notice.

*Our company is unable to guarantee reliability of pre-existing pipes and pre-existing cables.



OUTDOOR UNIT

R2 Nominal

PURY-P YLM-A1(-BS)



► Specifications

Model			PURY-P200YLM-A1 (-BS)		PURY-P250YLM-A1 (-BS)		PURY-P300YLM-A1 (-BS)		PURY-P350YLM-A1 (-BS)	
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)			*1	kW	22.4	28.0	33.5	40.0		
			*1	BTU / h	76,400	95,500	114,300	136,500		
			Power input	kW	5.29	6.98	9.10	11.76		
			Current input	A	8.9-8.4-8.1	11.7-11.1-10.7	15.3-14.5-14.0	19.8-18.8-18.1		
			EER	kW / kW	4.23	4.01	3.68	3.40		
Temp. range of cooling			*3	Indoor	D.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)	15.0~24.0°C (59~75°F)	
			*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)	-5.0~46.0°C (23~115°F)	
Heating capacity (Nominal)			*2	kW	25.0	31.5	37.5	45.0		
			*2	BTU / h	85,300	107,500	128,000	153,500		
			Power input	kW	5.49	7.32	9.37	11.59		
			Current input	A	9.2-8.8-8.4	12.3-11.7-11.3	15.8-15.0-14.4	19.5-18.5-17.9		
			COP	kW / kW	4.55	4.30	4.00	3.88		
Temp. range of heating			*3	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)	
			*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)	-20.0~15.5°C (-4~60°F)	
Indoor unit connectable			Total capacity		50~150%	50~150% of outdoor unit capacity	50~150% of outdoor unit capacity	50~150% of outdoor unit capacity		
			Model / Quantity		P15~P250/1~20	P15~P250/1~25	P15~P250/1~30	P15~P250/1~35		
Sound pressure level (measured in anechoic room)			dB <A>	59	60	62.5	62.5			
Sound power level (measured in anechoic room)			dB <A>	82.5	83.5	86	86			
Refrigerant piping diameter			High pressure	mm (in.)	15.88 (5/8) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed		
			Low pressure	mm (in.)	19.05 (3/4) Brazed	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	Propeller fan x 1		
			Air flow rate		m³/min	185	185	230	230	
					L/s	3,083	3,083	3,833	3,833	
					cfm	6,532	6,532	8,121	8,121	
			Driving mechanism		Inverter-control, Direct-driven by motor	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	0.92 x 1	
*4 External static press.					0 Pa (0 mmH₂O)	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	Inverter scroll hermetic compressor		
			Starting method		Inverter	Inverter	Inverter	Inverter		
			Motor output	kW	5.6	6.9	8.1	10.5		
			Case heater	kW	—	—	—	—		
External finish					Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension 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	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	67-3/8 (65 without legs) x 48-1/16 x 29-3/16		
Protection devices			High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
			Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection		
			Compressor		—	—	—	—		
			Fan motor		—	—	—	—		
Refrigerant			Type x original charge		R410A x 9.5 kg (21 lbs)	R410A x 9.5 kg (21 lbs)	R410A x 10.3 kg (23 lbs)	R410A x 10.3 kg (23 lbs)		
Net weight			kg (lbs)		205 (452)	205 (452)	248 (547)	248 (547)		
Heat exchanger					Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	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 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 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	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-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1	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-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.)

*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 / 3.1mmH₂O, 6.1mmH₂O).

*Nominal condition *1,*2 are subject to JIS B8615-2.

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

OUTDOOR UNIT

R2 Nominal

PURY-P YSLM-A1(-BS)



► Specifications

Model			PURY-P400YSLM-A1 (-BS)	PURY-P450YSLM-A1 (-BS)	PURY-P500YSLM-A1 (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity (Nominal)	*1	kW	45.0	50.0	56.0
	*1	BTU / h	153,500	170,600	191,100
		kW	10.97	12.50	14.39
		A	18.5-17.5-16.9	21.1-20.0-19.3	24.2-23.0-22.2
Temp. range of cooling	*3	EER	4.10	4.00	3.89
		Indoor	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
		Outdoor	-5.0~46.0°C (23~115°F)	-5.0~46.0°C (23~115°F)	-5.0~46.0°C (23~115°F)
		D.B.			
Heating capacity (Nominal)	*2	kW	50.0	56.0	63.0
		BTU / h	170,600	191,100	215,000
		kW	10.98	12.64	14.65
		A	18.5-17.6-16.9	21.3-20.2-19.5	24.7-23.4-22.6
Temp. range of heating	*3	COP	4.55	4.43	4.30
		Indoor	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	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
		W.B.			
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity	50~150% of outdoor unit capacity	50~150% of outdoor unit capacity
	Model / Quantity		P15~P250/1~40	P15~P250/1~45	P15~P250/1~50
Sound pressure level (measured in anechoic room)	dB <A>		62	62.5	63
Sound power level (measured in anechoic room)	dB <A>		85.5	86	86.5
Refrigerant piping diameter	High pressure	mm (in.)	22.2 (7/8) Braze	22.2 (7/8) Braze	22.2 (7/8) Braze
	Low pressure	mm (in.)	28.58 (1-1/8) Braze	28.58 (1-1/8) Braze	28.58 (1-1/8) Braze

Set Model			PURY-P200YLM-A1 (-BS)	PURY-P200YLM-A1 (-BS)	PURY-P200YLM-A1 (-BS)	PURY-P200YLM-A1 (-BS)	PURY-P250YLM-A1 (-BS)	PURY-P250YLM-A1 (-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
		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
Compressor	Driving mechanism		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	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	0.92 x 1	0.92 x 1	0.92 x 1
	External static press.		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)
	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
External finish	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	—	—	—	—	—	—
			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>
External dimension 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 920 x 740	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 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	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
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	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)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		—	—	—	—	—	—
	Fan motor		—	—	—	—	—	—
Refrigerant	Type x original charge		R410A x 9.5 kg (21 lbs)	R410A x 9.5 kg (21 lbs)	R410A x 9.5 kg (21 lbs)	R410A x 9.5 kg (21 lbs)	R410A x 9.5 kg (21 lbs)	R410A x 9.5 kg (21 lbs)
Net weight	kg (lbs)		205 (452)	205 (452)	205 (452)	205 (452)	205 (452)	205 (452)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
Pipe between unit and distributor	High pressure	mm (in.)	15.88 (5/8) Braze	15.88 (5/8) Braze	15.88 (5/8) Braze	19.05 (3/4) Braze	19.05 (3/4) Braze	19.05 (3/4) Braze
	Low pressure	mm (in.)	19.05 (3/4) Braze	19.05 (3/4) Braze	19.05 (3/4) Braze	22.2 (7/8) Braze	22.2 (7/8) Braze	22.2 (7/8) Braze
Optional parts			Outdoor Twinning kit: CMY-R100VBK-A Joint: CMY-Y102S-G2, CMY-Y102L-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1	Outdoor Twinning kit: CMY-R100VBK-A Joint: CMY-Y102S-G2, CMY-Y102L-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1	Outdoor Twinning kit: CMY-R100VBK-A Joint: CMY-Y102S-G2, CMY-Y102L-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1	Outdoor Twinning kit: CMY-R100VBK-A Joint: CMY-Y102S-G2, CMY-Y102L-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1	Outdoor Twinning kit: CMY-R100VBK-A Joint: CMY-Y102S-G2, CMY-Y102L-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1	Outdoor Twinning kit: CMY-R100VBK-A Joint: CMY-Y102S-G2, CMY-Y102L-G2, CMY-R160-J1 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.)

*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 / 3.1mmH₂O, 6.1mmH₂O).

*Nominal condition *1,*2 are subject to JIS B8615-2.

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

OUTDOOR UNIT

R2 Nominal

PURY-P YSLM-A1(-BS)

► Specifications



Model			PURY-P550YSLM-A1 (-BS)		PURY-P600YSLM-A1 (-BS)		PURY-P650YSLM-A1 (-BS)		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	63.0		69.0		73.0		
		BTU / h	215,000		235,400		249,100		
	Power input	kW	16.89		19.32		21.28		
		Current input	A	28.5-27.0-26.1		32.6-30.9-29.8		35.9-34.1-32.8	
		EER	kW / kW	3.73		3.57		3.43	
Temp. range of cooling	*3	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)	
		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 (Nominal)	*2	kW	69.0		76.5		81.5		
		BTU / h	235,400		261,000		278,100		
	Power input	kW	16.62		19.12		20.68		
		Current input	A	28.0-26.6-25.6		32.2-30.6-29.5		34.9-33.1-31.9	
		COP	kW / kW	4.15		4.00		3.94	
Temp. range of heating	*3	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 connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		
	Model / Quantity		P15~P250/2~50		P15~P250/2~50		P15~P250/2~50		
Sound pressure level (measured in anechoic room)		dB <A>	64.5		65.5		65.5		
Sound power level (measured in anechoic room)		dB <A>	88		89		89		
Refrigerant piping diameter	High pressure	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		
	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-A1 (-BS)	PURY-P300YLM-A1 (-BS)	PURY-P300YLM-A1 (-BS)	PURY-P300YLM-A1 (-BS)	PURY-P300YLM-A1 (-BS)	PURY-P350YLM-A1 (-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 mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		
	*4	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	
		External static press.		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 hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic 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 galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
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) 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) x 36-1/4 x 29-3/16	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	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	67-3/8 (65 without legs) x 48-1/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP/FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor		—	—	—	—	—	—	
	Fan motor		—	—	—	—	—	—	
Refrigerant			Type x original charge	R410A x 9.5 kg (21 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)	205 (452)	248 (547)	248 (547)	248 (547)	248 (547)	
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube			
Pipe between unit and distributor	High pressure	mm (in.)	19.05 (3/4) Brazed		19.05 (3/4) Brazed		19.05 (3/4) Brazed		
	Low pressure	mm (in.)	22.2 (7/8) Brazed		22.2 (7/8) Brazed		22.2 (7/8) Brazed		
Optional parts			Outdoor Twinning kit: CMY-R100VBK2 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			Outdoor Twinning kit: CMY-R100VBK2 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			

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 / 3.1mmH₂O, 6.1mmH₂O).

*Nominal condition *1,*2 are subject to JIS B8615-2.

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

OUTDOOR UNIT

R2 Nominal

PURY-P YSLM-A1(-BS)

► Specifications



Model			PURY-P700YSLM-A1 (-BS)		PURY-P750YSLM-A1 (-BS)		PURY-P800YSLM-A1 (-BS)			
Power source			3-phase 4-wire 380~400~415 V 50/60 Hz		3-phase 4-wire 380~400~415 V 50/60 Hz		3-phase 4-wire 380~400~415 V 50/60 Hz			
Cooling capacity (Nominal)	*1	kW	80.0		85.0		90.0			
		BTU / h	273,000		290,000		307,100			
	Power input	kW	24.24		26.23		28.30			
		Current input	A	40.9-38.8-37.4		44.2-42.0-40.5		47.7-45.3-43.7		
		EER	3.30		3.24		3.18			
Temp. range of cooling	*3	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)			
		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 (Nominal)	*2	kW	88.0		90.0		90.0			
		BTU / h	300,300		307,100		307,100			
	Power input	kW	22.68		23.01		22.84			
		Current input	A	38.2-36.3-35.0		38.8-36.9-35.5		38.5-36.6-35.3		
		COP	3.88		3.91		3.94			
Temp. range of heating	*3	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 connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity			
	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 diameter	High pressure	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed			
	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-P350YLM-A1 (-BS)	PURY-P350YLM-A1 (-BS)	PURY-P350YLM-A1 (-BS)	PURY-P400YLM-A1 (-BS)	PURY-P400YLM-A1 (-BS)	PURY-P400YLM-A1 (-BS)		
FAN	Type x Quantity		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	
		L/s	3,833		3,833		3,833		3,833	
		cfm	8,121		8,121		8,121		8,121	
	Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
	Compressor	*4	Motor output	kW 0.92 x 1		0.92 x 1		0.92 x 1		0.92 x 1
External static press.			0 Pa (0 mmH ₂ O)		0 Pa (0 mmH ₂ O)		0 Pa (0 mmH ₂ O)		0 Pa (0 mmH ₂ O)	
Type x Quantity		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		
Starting method		Inverter		Inverter		Inverter		Inverter		
	Motor output	kW	10.5		10.5		10.5		10.9	
	Case heater	kW	—		—		—		—	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension 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 1,220 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		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 devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		—		—		—		—	
	Fan motor		—		—		—		—	
Refrigerant			Type x original charge		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)		246 (543)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Pipe between unit and distributor	High pressure	mm (in.)	19.05 (3/4) Brazed		19.05 (3/4) Brazed		22.2 (7/8) Brazed		22.2 (7/8) Brazed	
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed	
Optional parts			Outdoor Twinning kit: CMY-R200VBK2 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P1016V-HA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1		Outdoor Twinning kit: CMY-R200VBK2 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P1016V-HA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1		Outdoor Twinning kit: CMY-R200VBK2 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P1016V-HA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1		Outdoor Twinning kit: CMY-R200VBK2 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P1016V-HA1 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 / 3.1mmH₂O, 6.1mmH₂O).

*Nominal condition *1,*2 are subject to JIS B8615-2.

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

OUTDOOR UNIT

R2 Nominal

PURY-P YSLM-A1(-BS)



► Specifications

Model			PURY-P850YSLM-A1 (-BS)		PURY-P900YSLM-A1 (-BS)	
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1	kW	96.0		101.0	
	*1	BTU / h	327,600		344,600	
	Power input	kW	29.26		29.79	
	Current input	A	49.3-46.9-45.2		50.2-47.7-46.0	
	EER	kW / kW	3.28		3.39	
Temp. range of cooling	*3	Indoor	15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)	
		Outdoor	-5.0~46.0°C (23~115°F)		-5.0~46.0°C (23~115°F)	
Heating capacity (Nominal)	*2	kW	101.0		113.0	
	*2	BTU / h	344,600		385,600	
	Power input	kW	26.23		30.13	
	Current input	A	44.2-42.0-40.5		50.8-48.3-46.5	
	COP	kW / kW	3.85		3.75	
Temp. range of heating	*3	Indoor	15.0~27.0°C (59~81°F)		15.0~27.0°C (59~81°F)	
		Outdoor	-20.0~15.5°C (-4~60°F)		-20.0~15.5°C (-4~60°F)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P15~P250/2~50		P15~P250/2~50	
Sound pressure level (measured in anechoic room)		dB <A>	65.5		65.5	
Sound power level (measured in anechoic room)		dB <A>	89		89	
Refrigerant piping diameter	High pressure	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed	
	Low pressure	mm (in.)	41.28 (1-5/8) Brazed		41.28 (1-5/8) Brazed	
Set Model						
Model			PURY-P400YLM-A1 (-BS)		PURY-P450YLM-A1 (-BS)	
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 2	
	Air flow rate	m³/min	230		320	
		L/s	3,833		5,333	
		cfm	8,121		11,299	
	Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
	*4	Motor output	0.92 x 1		0.92 x 2	
	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	10.9		12.4	
	Case heater	kW	—		—	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension HxWxD		mm	1,710 (1,650 without legs) x 1,220 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 devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		—		—	
	Fan motor		—		—	
Refrigerant		Type x original charge	R410A x 10.3 kg (23 lbs)		R410A x 11.8 kg (27 lbs)	
Net weight		kg (lbs)	246 (543)		321 (708)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Pipe between unit and distributor	High pressure	mm (in.)	22.2 (7/8) Brazed		22.2 (7/8) Brazed	
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed	
Optional parts			Outdoor Twinning kit: CMY-R200XLVBK Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P1016V-HA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1		Outdoor Twinning kit: CMY-R200XLVBK Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P1016V-HA1 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 / 3.1mmH₂O, 6.1mmH₂O).

*Nominal condition *1,*2 are subject to JIS B8615-2.

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

OUTDOOR UNIT

R2 Nominal

PURY-P YLM-A1(-BS)

► Specifications



Model			PURY-P400YLM-A1 (-BS)		PURY-P450YLM-A1 (-BS)		PURY-P500YLM-A1 (-BS)	
Power source			3-phase 4-wire 380~400~415 V 50/60 Hz		3-phase 4-wire 380~400~415 V 50/60 Hz		3-phase 4-wire 380~400~415 V 50/60 Hz	
Cooling capacity (Nominal)	*1	kW	45.0		50.0		56.0	
		BTU / h	153,500		170,600		191,100	
	Power input	kW	13.71		14.32		17.77	
		Current input	A	23.1~21.9~21.1		24.1~22.9~22.1		29.9~28.4~27.4
Temp. range of cooling	*3	EER	3.28		3.49		3.15	
		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)
	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)	
		Outdoor	W.B.					
Heating capacity (Nominal)	*2	kW	45.0		56.0		58.0	
		BTU / h	153,500		191,100		197,900	
	Power input	kW	11.42		14.93		16.06	
		Current input	A	19.2~18.3~17.6		25.2~23.9~23.0		27.1~25.7~24.8
Temp. range of heating	*3	COP	3.94		3.75		3.61	
		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)	
		Outdoor	W.B.					
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P15~P250/1~40		P15~P250/1~45		P15~P250/1~50	
Sound pressure level (measured in anechoic room)		dB <A>	62.5		62.5		63.5	
Sound power level (measured in anechoic room)		dB <A>	86		86		87	
Refrigerant piping diameter	High pressure	mm (in.)	22.2 (7/8) Brazed		22.2 (7/8) Brazed		22.2 (7/8) Brazed	
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		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		380	
		L/s	3,833		5,333		6,333	
		cfm	8,121		11,299		13,418	
	Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
	Motor output		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							
Compressor	Type x Quantity	Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		
	Starting method		Inverter		Inverter		Inverter	
	Motor output	kW	10.9		12.4		13.4	
	Case heater	kW	—		—		—	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension 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		67-3/8 (65 without legs) x 68-15/16 x 29-3/16	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor	—		—		—		
	Fan motor	—		—		—		
Refrigerant	Type x original charge		R410A x 10.3 kg (23 lbs)		R410A x 11.8 kg (27 lbs)		R410A x 11.8 kg (27 lbs)	
Net weight	kg (lbs)		246 (543)		321 (708)		321 (708)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Optional parts			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		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	

Notes:

*1,*2 Nominal conditions

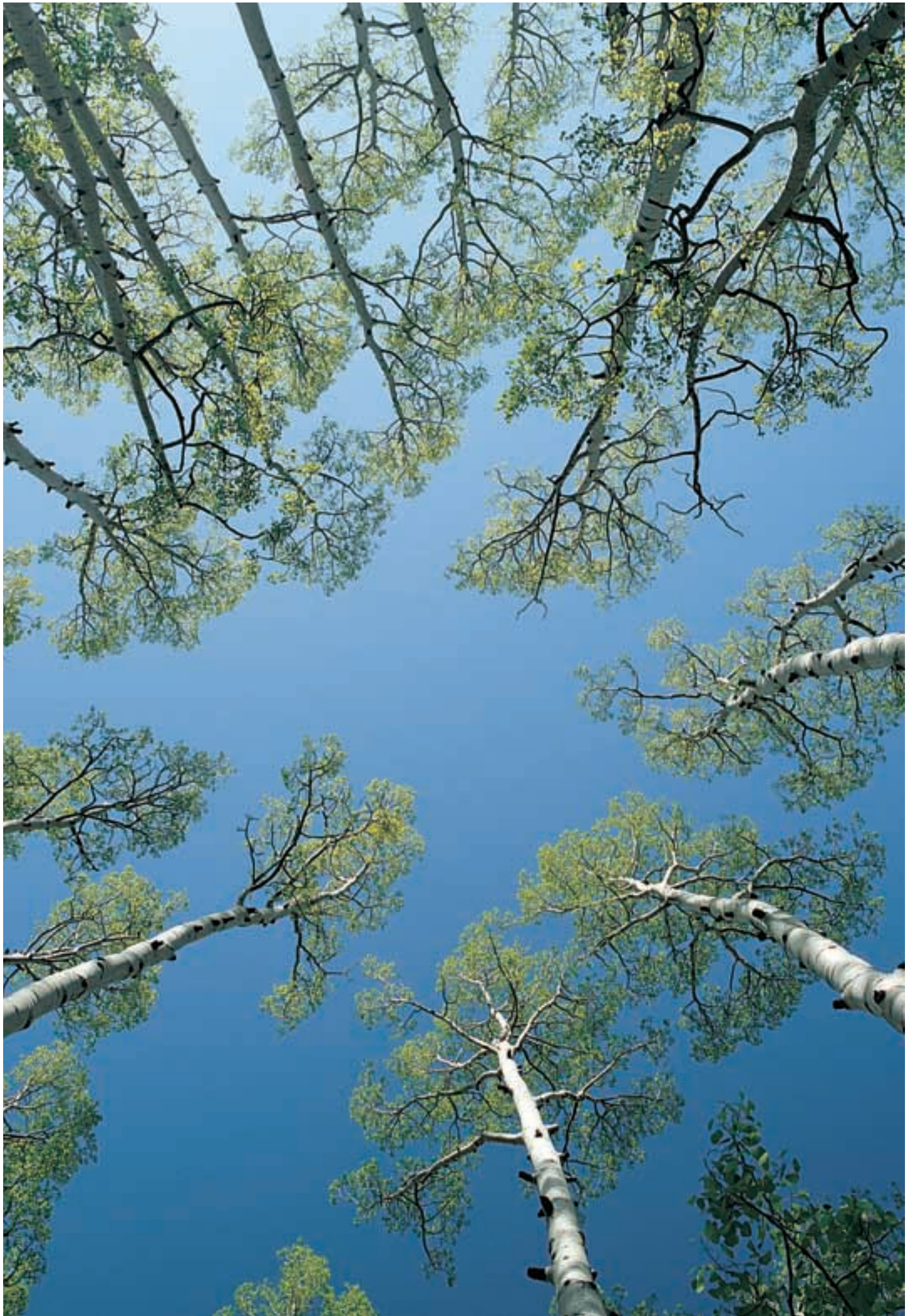
	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*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 / 3.1mmH₂O, 6.1mmH₂O).

*Nominal condition *1,*2 are subject to JIS B8615-2.

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



OUTDOOR UNIT

R2 Seasonal

PURY-EP YLM-A(-BS)



► Specifications

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 (Nominal)	*1	kW	22.4	28.0	33.5
	*1	BTU / h	76,400	95,500	114,300
		Power input kW	5.48	7.25	9.20
		Current input A	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 cooling	*3	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)
		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 (Nominal)	*2	kW	25.0	31.5	37.5
	*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 heating	*3	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 connectable	Total capacity		50~150%	50~150% of outdoor unit capacity	50~150% of outdoor unit capacity
	Model / Quantity		P15~P250/1~20	P15~P250/1~25	P15~P250/1~30
Sound pressure level (measured in anechoic room)		dB <A>	59	60	62.5
Sound power level (measured in anechoic room)		dB <A>	82.5	83.5	86
Refrigerant piping diameter	High pressure	mm (in.)	15.88 (5/8) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed
	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 mechanism		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 press.		0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
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 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>
External dimension 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 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)
	Inverter circuit (COMP/FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		—	—	—
	Fan motor		—	—	—
Refrigerant	Type x original charge		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 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	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-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1	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-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.)

*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 / 3.1mmH₂O, 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

R2 Seasonal

PURY-EP YLM-A(-BS)



► Specifications

Model			PURY-EP350YLM-A (-BS)	PURY-EP400YLM-A (-BS)	PURY-EP450YLM-A (-BS)	PURY-EP500YLM-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	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity (Nominal)	*1	kW	40.0	45.0	50.0	56.0
	*1	BTU / h	136,500	153,500	170,600	191,100
	Power input	kW	12.57	12.56	14.83	18.30
	Current input	A	21.2-20.1-19.4	21.2-20.1-19.4	25.0-23.7-22.9	30.8-29.3-28.2
Heating capacity (Nominal)	EER	kW / kW	3.18	3.58	3.37	3.06
	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)	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)	-5.0~46.0°C (23~115°F)	-5.0~46.0°C (23~115°F)
	*2	kW	45.0	50.0	56.0	63.0
Temp. range of heating	*2	BTU / h	153,500	170,600	191,100	215,000
	Power input	kW	12.93	13.40	15.86	19.54
	Current input	A	21.8-20.7-19.9	22.6-21.4-20.7	26.7-25.4-24.5	32.9-31.3-30.2
	COP	kW / kW	3.48	3.73	3.53	3.22
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)	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)	-20.0~15.5°C (-4~60°F)
Total capacity			50~150% of outdoor unit capacity	50~150% of outdoor unit capacity	50~150% of outdoor unit capacity	50~150% of outdoor unit capacity
Model / Quantity			P15~P250/1~35	P15~P250/1~40	P15~P250/1~45	P15~P250/1~50
Sound pressure level (measured in anechoic room)		dB <A>	62.5	62.5	62.5	63.5
Sound power level (measured in anechoic room)		dB <A>	86	86	86	87
Refrigerant piping diameter	High pressure	mm (in.)	19.05 (3/4) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	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	Propeller fan x 2
	Air flow rate	m³/min	230	320	320	380
		L/s	3,833	5,333	5,333	6,333
		cfm	8,121	11,299	11,299	13,418
Driving mechanism	Motor output	kW	0.92 x 1	0.92 x 2	0.92 x 2	0.92 x 2
	External static press.		0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)
	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter
Compressor	Motor output	kW	10.5	10.9	12.4	13.4
	Case heater	kW	—	—	—	0.045 (240 V)
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>
External dimension 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 devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP/FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		—	—	—	—
	Fan motor		—	—	—	—
Refrigerant			R410A x 9.3 kg (21 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)
Net weight			260 (574)	338 (746)	338 (746)	351 (774)
Heat exchanger			Salt-resistant cross fin & aluminium tube	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-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	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

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 / 3.1mmH₂O, 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

R2 Seasonal

PURY-EP YSLM-A(-BS)



► Specifications

Model			PURY-EP550YSLM-A (-BS)		PURY-EP600YSLM-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 (Nominal)	*1	kW	63.0		69.0	
	*1	BTU / h	215,000		235,400	
	Power input	kW	17.35		19.54	
	Current input	A	29.2-27.8-26.8		32.9-31.3-30.2	
	EER	kW / kW	3.63		3.53	
Temp. range of cooling	*3	Indoor	15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)	
		Outdoor	-5.0~46.0°C (23~115°F)		-5.0~46.0°C (23~115°F)	
Heating capacity (Nominal)	*2	kW	69.0		76.5	
	*2	BTU / h	235,400		261,000	
	Power input	kW	18.44		20.34	
	Current input	A	31.1-29.5-28.5		34.3-32.6-31.4	
	COP	kW / kW	3.74		3.76	
Temp. range of heating	*3	Indoor	15.0~27.0°C (59~81°F)		15.0~27.0°C (59~81°F)	
		Outdoor	-20.0~15.5°C (-4~60°F)		-20.0~15.5°C (-4~60°F)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P15~P250/2~50		P15~P250/2~50	
Sound pressure level (measured in anechoic room)		dB <A>	64.5		65.5	
Sound power level (measured in anechoic room)		dB <A>	88		89	
Refrigerant piping diameter	High pressure	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed	
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed	
Set Model						
Model			PURY-EP250YLM-A (-BS)	PURY-EP300YLM-A (-BS)	PURY-EP300YLM-A (-BS)	PURY-EP300YLM-A (-BS)
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1	
	Air flow rate	m³/min	185		230	
		L/s	3,083		3,833	
		cfm	6,532		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 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	6.9		8.1	
	Case heater	kW	—		—	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension HxWxD		mm	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 48-1/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		—		—	
	Fan motor		—		—	
Refrigerant		Type x original charge	R410A x 8.5 kg (19 lbs)		R410A x 9.3 kg (21 lbs)	
Net weight		kg (lbs)	218 (481)		260 (574)	
Heat exchanger			Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube	
Pipe between unit and distributor	High pressure	mm (in.)	19.05 (3/4) Brazed		19.05 (3/4) Brazed	
	Low pressure	mm (in.)	22.2 (7/8) Brazed		22.2 (7/8) Brazed	
Optional parts			Outdoor Twinning kit: CMY-ER200VBK 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		Outdoor Twinning kit: CMY-ER200VBK 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	

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 / 3.1mmH₂O, 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

R2 Seasonal

PURY-EP YSLM-A(-BS)



► 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 (Nominal)	*1	kW	73.0		80.0		85.0	
	*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 cooling	*3	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)	
		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 (Nominal)	*2	kW	81.5		88.0		95.0	
	*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 heating	*3	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 connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	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 diameter	High pressure	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed	
	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			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 mechanism		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	0.92 x 1	0.92 x 1	0.92 x 2
Compressor	*4 External static press.		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)
	Type x Quantity		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Starting method		Inverter		Inverter		Inverter	
	Motor output kW		8.1	10.5	10.5	10.5	10.5	10.9
Case heater kW			—	—	—	—	—	—
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension 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 1,220 x 740	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,750 x 740
			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	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	67-3/8 (65 without legs) x 68-15/16 x 29-3/16
Protection devices			High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
			Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
			Compressor		—		—	
			Fan motor		—		—	
Refrigerant			Type x original charge	R410A x 9.3 kg (21 lbs)	R410A x 9.3 kg (21 lbs)	R410A x 9.3 kg (21 lbs)	R410A x 9.3 kg (21 lbs)	R410A x 11.8 kg (27 lbs)
Net weight			kg (lbs)	260 (574)	260 (574)	260 (574)	260 (574)	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 and distributor			High pressure	mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	22.2 (7/8) Brazed
			Low pressure	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Optional parts			Outdoor Twinning kit: CMY-ER200VBK 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			Outdoor Twinning kit: CMY-ER200VBK Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P1016V-HA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1		
			Outdoor Twinning kit: CMY-ER200VBK Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1			Outdoor Twinning kit: CMY-ER200VBK Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P1016V-HA1 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 / 3.1mmH₂O, 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

R2 Seasonal

PURY-EP YSLM-A(-BS)



► Specifications

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 (Nominal)	*1	kW	90.0		96.0		101.0	
	*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 cooling	*3	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)	
		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 (Nominal)	*2	kW	100.0		108.0		113.0	
	*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 heating	*3	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 connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	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 diameter	High pressure	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed	
	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)
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 mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
	*4	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
Compressor	External static press.		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)
	Type x Quantity		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic 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 galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension 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	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	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	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 devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		—	—	—	—	—	—
	Fan motor		—	—	—	—	—	—
Refrigerant	Type x original charge		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)	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 and distributor	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
Optional parts	Low pressure	mm (in.)	28.58 (1-1/8) Brazed	—	28.58 (1-1/8) Brazed	—	28.58 (1-1/8) Brazed	—
			Outdoor Twinning kit: CMY-ER200VBK Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P1016V-HA1		Outdoor Twinning kit: CMY-ER200VBK Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P1016V-HA1		Outdoor Twinning kit: CMY-ER200VBK Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 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.)

*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 / 3.1mmH₂O, 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.

HEAT SOURCE UNIT WR2 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 (Nominal)	*1	kW	22.4	28.0	33.5
	*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
Temp. range of cooling	EER	kW / kW	5.65	5.08	4.50
	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)
	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 (Nominal)	*2	kW	25.0	31.5	37.5
	*2	BTU / h	85,300	107,500	128,000
	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
Temp. range of heating	COP	kW / kW	6.06	5.43	4.60
	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)
	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)
Indoor unit connectable	Total capacity		50~150 % of heat source unit capacity	50~150 % of heat source unit capacity	50~150 % of heat source unit capacity
	Model / Quantity		P15~P250 / 1~20	P15~P250 / 1~25	P15~P250 / 1~30
Sound pressure level (measured in anechoic room)		dB <A>	47	49	50
Refrigerant piping diameter [O.D.]	High pressure	mm (in.)	15.88(5/8) Braze	19.05(3/4) Braze	19.05(3/4) Braze
	Low pressure	mm (in.)	19.05(3/4) Braze	22.2(7/8) Braze	22.2(7/8) Braze
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 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 devices	High pressure protection		High pressure sensor, High pressure switch at 4.15MPa (60.1 psi)	High pressure sensor, High pressure switch at 4.15MPa (60.1 psi)	High pressure sensor, High pressure switch at 4.15MPa (60.1 psi)
	Inverter circuit (COMP.)		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
Refrigerant	Type x original charge		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)
Heat exchanger	plate type		plate type	plate type	plate type
	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°C D.B./19°C W.B. (81°F D.B./66°F W.B.)	30°C (86°F)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C D.B. (68°F D.B.)	20°C (68°F)		

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

HEAT SOURCE UNIT WR2 PQRY-P YSHM-A



► Specifications

Model			PQRY-P400YSHM-A		PQRY-P450YSHM-A		PQRY-P500YSHM-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 (Nominal)		*1 kW	45.0		50.0		56.0			
		*1 BTU / h	153,500		170,600		191,100			
		Power input kW	8.32		9.94		11.57			
		Current input A	14.0-13.3-12.8		16.7-15.9-15.3		19.5-18.5-17.8			
EER		kW / kW	5.40		5.03		4.84			
Temp. range of cooling		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)			
		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 (Nominal)		*2 kW	50.0		56.0		63.0			
		*2 BTU / h	170,600		191,100		215,000			
		Power input kW	8.65		10.42		12.06			
		Current input A	14.6-13.8-13.3		17.5-16.7-16.1		20.3-19.3-18.6			
COP		kW / kW	5.78		5.37		5.22			
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)			
		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)			
Indoor unit connectable		Total capacity	50~150 % of heat source unit capacity		50~150 % of heat source unit capacity		50~150 % of heat source unit capacity			
		Model / Quantity	P15~P250 / 1~40		P15~P250 / 1~45		P15~P250 / 1~50 (Connectable branch pipe number is max. 48.)			
Sound pressure level (measured in anechoic room)		dB <A>	50		51		52			
Refrigerant piping diameter [O.D.]		High pressure mm (in.)	22.2(7/8) Brazed		22.2(7/8) Brazed		22.2(7/8) Brazed			
		Low pressure mm (in.)	28.58(1-1/8) Brazed		28.58(1-1/8) Brazed		28.58(1-1/8) Brazed			
Set Model										
Model			PQRY-P200YHM-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/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	m ³ / 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 hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		
		Starting method		Inverter		Inverter		Inverter		
		Motor output kW		4.6		6.3		4.6		
		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 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	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	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 devices		High pressure protection		High pressure sensor, High pressure switch at 4.15MPa (601 psi)		High pressure sensor, High pressure switch at 4.15MPa (601 psi)		High pressure sensor, High pressure switch at 4.15MPa (601 psi)		
		Inverter circuit (COMP.)		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		
Refrigerant		Type x original charge		R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)	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)	181(400)	181(400)	
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 Source Twinning kit: CMY-Q100VBK Joint: CMY-Y102SS-G2 CMY-Y102LS-G2 CMY-Y202S-G2 CMY-R160-J1		Heat Source Twinning kit: CMY-Q100VBK Joint: CMY-Y102SS-G2 CMY-Y102LS-G2 CMY-Y202S-G2 CMY-R160-J1		Heat Source Twinning kit: CMY-Q100VBK 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°C D.B./19°C W.B. (81°F D.B./66°F W.B.)	30°C (86°F)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C D.B. (68°F D.B.)	20°C (68°F)		

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

HEAT SOURCE UNIT WR2 PQRY-P YSHM-A



► Specifications

Model			PQRY-P550YSHM-A	PQRY-P600YSHM-A
Power source			3-phase 4-wire 380-400-415V 50/60Hz	3-phase 4-wire 380-400-415V 50/60Hz
Cooling capacity (Nominal)	*1	kW	63.0	69.0
	*1	BTU / h	215,000	235,400
	Power input	kW	13.60	15.62
	Current input	A	22.9-21.8-21.0	26.3-25.0-24.1
	EER	kW / kW	4.63	4.41
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
	Circulating water	°C	10.0~45.0°C(50~113°F)	10.0~45.0°C(50~113°F)
Heating capacity (Nominal)	*2	kW	69.0	76.5
	*2	BTU / h	235,400	261,000
	Power input	kW	14.65	17.12
	Current input	A	24.7-23.4-22.6	28.9-27.4-26.4
	COP	kW / kW	4.70	4.46
Temp. range of heating	Indoor	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)
	Circulating water	°C	10.0~45.0°C(50~113°F)	10.0~45.0°C(50~113°F)
Indoor unit connectable	Total capacity		50~150 % of heat source unit capacity	50~150 % of heat source unit capacity
	Model / Quantity		P15~P250 / 2~50 (Connectable branch pipe number is max. 48.)	P15~P250 / 2~50 (Connectable branch pipe number is max. 48.)
Sound pressure level (measured in anechoic room)		dB <A>	52.5	53
Refrigerant piping diameter [O.D.]	High pressure	mm (in.)	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed
	Low pressure	mm (in.)	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed

Set Model			PQRY-P300YHM-A	PQRY-P250YHM-A	PQRY-P300YHM-A	PQRY-P300YHM-A
Circulating water	Water flow rate	m³ / h	5.76 + 5.76		5.76 + 5.76	
		L/min	96 + 96		96 + 96	
		cfm	3.4 + 3.4		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 hermetic compressor		Inverter scroll hermetic compressor	
	Starting method		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	
External dimension 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	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 devices	High pressure protection		High pressure sensor, High pressure switch at 4.15MPa (601 psi)		High pressure sensor, High pressure switch at 4.15MPa (601 psi)	
	Inverter circuit (COMP.)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection		Over-heat protection	
Refrigerant	Type x original charge		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	
	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			Heat Source Twinning kit: CMY-Q100VBK Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-Y202S-G2,CMY-R160-J1		Heat Source Twinning kit: CMY-Q100VBK 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°C D.B./19°C W.B. (81°F D.B./66°F W.B.)	30°C (86°F)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C D.B. (68°F D.B.)	20°C (68°F)		

*3 The ambient temperature of the heat source unit needs to be kept below 40°C D.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 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 R2 Replace Multi PURY-RP YJM-B(-BS)



► Specifications

Model			PURY-RP200YJM-B (-BS)	PURY-RP250YJM-B (-BS)	PURY-RP300YJM-B (-BS)
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 (Nominal)	*1	kW	22.4	28.0	33.5
	*1	kcal / h	19,300	24,100	28,800
	*1	BTU / h	76,400	95,500	114,300
	Power input	kW	4.95	6.82	8.35
	Current input	A	8.3-7.9-7.6	11.5-10.9-10.5	14.0-13.3-12.9
Temp. range of cooling	EER	kW / kW	4.52	4.10	4.01
	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)
	Outdoor	D.B.	-5.0~43.0°C (23~109°F)	-5.0~43.0°C (23~109°F)	-5.0~43.0°C (23~109°F)
Heating capacity (Nominal)	*2	kW	25.0	31.5	37.5
	*2	kcal / h	21,500	27,100	32,300
	*2	BTU / h	85,300	107,500	128,000
	Power input	kW	5.50	7.22	8.70
	Current input	A	9.2-8.8-8.5	12.1-11.5-11.1	14.6-13.9-13.4
Temp. range of heating	COP	kW / kW	4.54	4.36	4.31
	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 connectable	Total capacity		50~150 % of outdoor unit capacity	50~150 % of outdoor unit capacity	50~150 % of outdoor unit capacity
	Model / Quantity		P15~P250 / 1~20	P15~P250 / 1~25	P15~P250 / 1~30
Sound pressure level (measured in anechoic room)		dB <A>	56	57	59
Refrigerant piping diameter	High pressure	mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m³/min	225	225	225
		L/s	3,750	3,750	3,750
		cfm	7,945	7,945	7,945
	Control, Driving mechanism		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
Compressor	*3 External static press.		0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	5.4	6.8	7.8
	Case heater	kW	0.035 (240V)	0.045 (240V)	0.045 (240V)
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1>
External dimension HxWxD		mm	1,710(1,650 without legs) x 1,220 x 760	1,710(1,650 without legs) x 1,220 x 760	1,710(1,650 without legs) x 1,220 x 760
		in.	67-3/8 (65 without legs) x 48-1/16 x 29-15/16	67-3/8 (65 without legs) x 48-1/16 x 29-15/16	67-3/8 (65 without legs) x 48-1/16 x 29-15/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15, 3.6MPa (601,522 psi)	High pressure sensor, High pressure switch at 4.15, 3.6MPa (601,522 psi)	High pressure sensor, High pressure switch at 4.15, 3.6MPa (601,522 psi)
	Inverter circuit (COMP./ FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Discharge thermo protection, Over-current protection	Discharge thermo protection, Over-current protection	Discharge thermo protection, Over-current protection
	Fan motor		Thermal switch	Thermal switch	Thermal switch
Refrigerant	Type x original charge		R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)
Net weight		kg (lbs)	275 (607)	290 (640)	290 (640)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
Optional parts			BC controller: CMB-P104,105,106,108,1010,1013,1016V- G Main BC controller: CMB-P108,1010,1013,1016V- GA Sub BC controller: CMB-P104,108V-GB	BC controller: CMB-P104,105,106,108,1010,1013,1016V- G Main BC controller: CMB-P108,1010,1013,1016V- GA Sub BC controller: CMB-P104,108V-GB	BC controller: CMB-P104,105,106,108,1010,1013,1016V- G Main BC controller: CMB-P108,1010,1013,1016V- GA Sub BC controller: CMB-P104,108V-GB

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°CDB/19°CWB (81°FDB/66°FWB)	35°CDB (95°FDB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°CDB(68°FDB)	7°CDB/6°CWB (45°FDB/43°FWB)	7.5m (24-9/16ft.)	0m (0ft.)

*3. External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

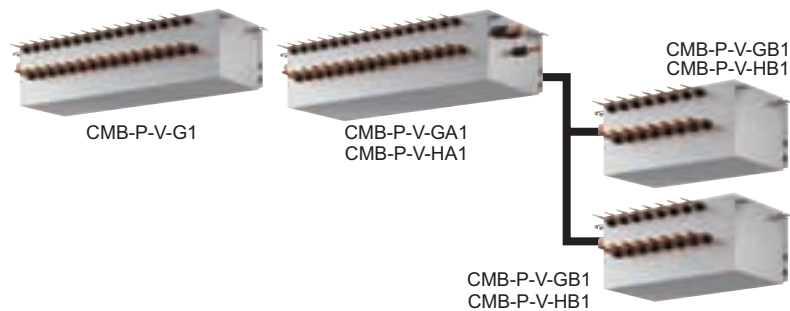
*Nominal condition *1,*2 are subject to JIS B8615-1.

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

*Our company is unable to guarantee reliability of pre-existing pipes and pre-existing cables.

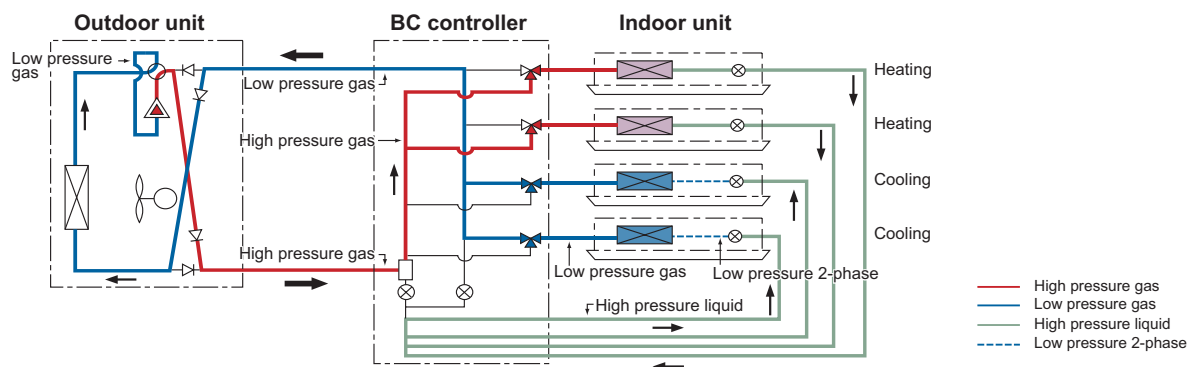
BC Controller

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						
Power input	kW	50Hz	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
			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
Current	A	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
			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
		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
			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 finish				Galvanized steel plate (Lower part drain pan painting N1.5)						
Indoor unit capacity connectable to 1 branch				Model P80 or smaller (•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						
Refrigerant piping diameter	To outdoor unit				Connectable outdoor unit capacity					
					P200		P250, P300		P350	
		High pressure pipe			ø15.88 (ø5/8) Brazed		ø19.05 (ø3/4) Brazed		ø19.05 (ø3/4) Brazed	
	Low pressure pipe			ø19.05 (ø3/4) Brazed		ø22.2 (ø7/8) Brazed		ø28.58 (ø1-1/8) Brazed		
	To indoor 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		24	27	28	33	38	45	52
Accessories				•Drain connection pipe (with flexible hose and insulation) •Reducer						

Specifications

Model name				CMB-P108V-GA1	CMB-P1010V-GA1	CMB-P1013V-GA1	CMB-P1016V-GA1	CMB-P1016V-HA1
Number of branch				8	10	13	16	
Power source				1-phase 220/230/240V 50Hz/60Hz				
Power input	kW	50Hz	Cooling	0.127/0.144/0.161	0.156/0.177/0.198	0.201/0.228/0.255	0.246/0.279/0.312	
			heating	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	0.102/0.115/0.127	0.126/0.141/0.156	0.162/0.182/0.201	0.198/0.222/0.246	
			heating	0.048/0.054/0.060	0.060/0.068/0.075	0.078/0.088/0.097	0.096/0.108/0.119	
Current	A	50Hz	Cooling	0.58/0.63/0.68	0.71/0.77/0.83	0.92/1.00/1.07	1.12/1.22/1.30	
			heating	0.28/0.30/0.32	0.35/0.37/0.40	0.45/0.48/0.52	0.55/0.59/0.63	
		60Hz	Cooling	0.47/0.50/0.53	0.58/0.62/0.65	0.74/0.80/0.84	0.90/0.97/1.03	
			heating	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 finish				Galvanized steel plate (Lower part drain pan painting N1.5)				
Indoor unit capacity connectable to 1 branch				Model P80 or smaller (•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		289				
Width		mm		1,110				
Depth		mm		520				
Refrigerant piping diameter	To outdoor unit	Connectable outdoor unit capacity						
		P200	P250,300	P350	P400~P500	P550~P650	P700~P800/P850~P900*4	
		High pressure pipe	ø15.88 (ø5/8) Brazed	ø19.05 (ø3/4) Brazed		ø22.2 (ø7/8) Brazed	ø28.58 (ø1-1/8) Brazed	ø28.58 (ø1-1/8) Brazed/ ø28.58 (ø1-1/8) Brazed
	To indoor unit	Low pressure pipe	ø19.05 (ø3/4) Brazed	ø22.2 (ø7/8) Brazed	ø28.58 (ø1-1/8) Brazed			ø34.93 (ø1-3/8) Brazed/ ø41.28 (ø1-5/8) Brazed
		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.)					
	To another BC controller	Total indoor unit capacity connected to this Sub BC controller						
		~P200	P201~P300	P301~P350	P351~P400	P401~P450		
		High press gas pipe	ø15.88 (ø5/8) Brazed	ø19.05 (ø3/4) Brazed		ø22.2 (ø7/8) Brazed		
		Low press gas 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		
Drain pipe				O.D. 32mm				
Net weight		kg	43	48	55	62	69	
Accessories				•Drain connection pipe (with flexible hose and insulation) •Reducer				

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							
Power input	kW	50Hz	Cooling	0.060/0.068/0.076		0.119/0.135/0.151		0.237/0.269/0.301			
			heating	0.030/0.034/0.038		0.060/0.068/0.076		0.119/0.135/0.151			
		60Hz	Cooling	0.048/0.054/0.060		0.096/0.108/0.119		0.192/0.216/0.237			
			heating	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			
			heating	0.14/0.15/0.16		0.28/0.30/0.32		0.55/0.59/0.63			
		60Hz	Cooling	0.22/0.24/0.25		0.44/0.47/0.50		0.88/0.94/0.99			
			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)							
Indoor unit capacity connectable to 1 branch				Model P80 or smaller (•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			
Refrigerant piping diameter	To Main BC controller	Total indoor unit capacity connected this Sub BC controller									
		~P200, P201~P350				~P200, P201~P450					
		~P200		P201~P300		P301~P350		P351~P400		P401~P450	
		High pressure pipe		ø15.88 (ø5/8) 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			
	To indoor unit	Liquid pipe		ø9.52 (ø3/8) Brazed		ø12.7 (ø1/2) Brazed		ø15.88 (ø5/8) Brazed			
		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			
Accessories				•Drain connection pipe (with flexible hose and insulation) •Reducer							

★ Combination chart of BC Controller for R2 series

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

★ Combination chart of BC Controller for WR2 series

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

Notes:


- The equipment is for R410A refrigerant.
- Install this product in 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.

- 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-1016V-HB1 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.


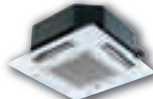
















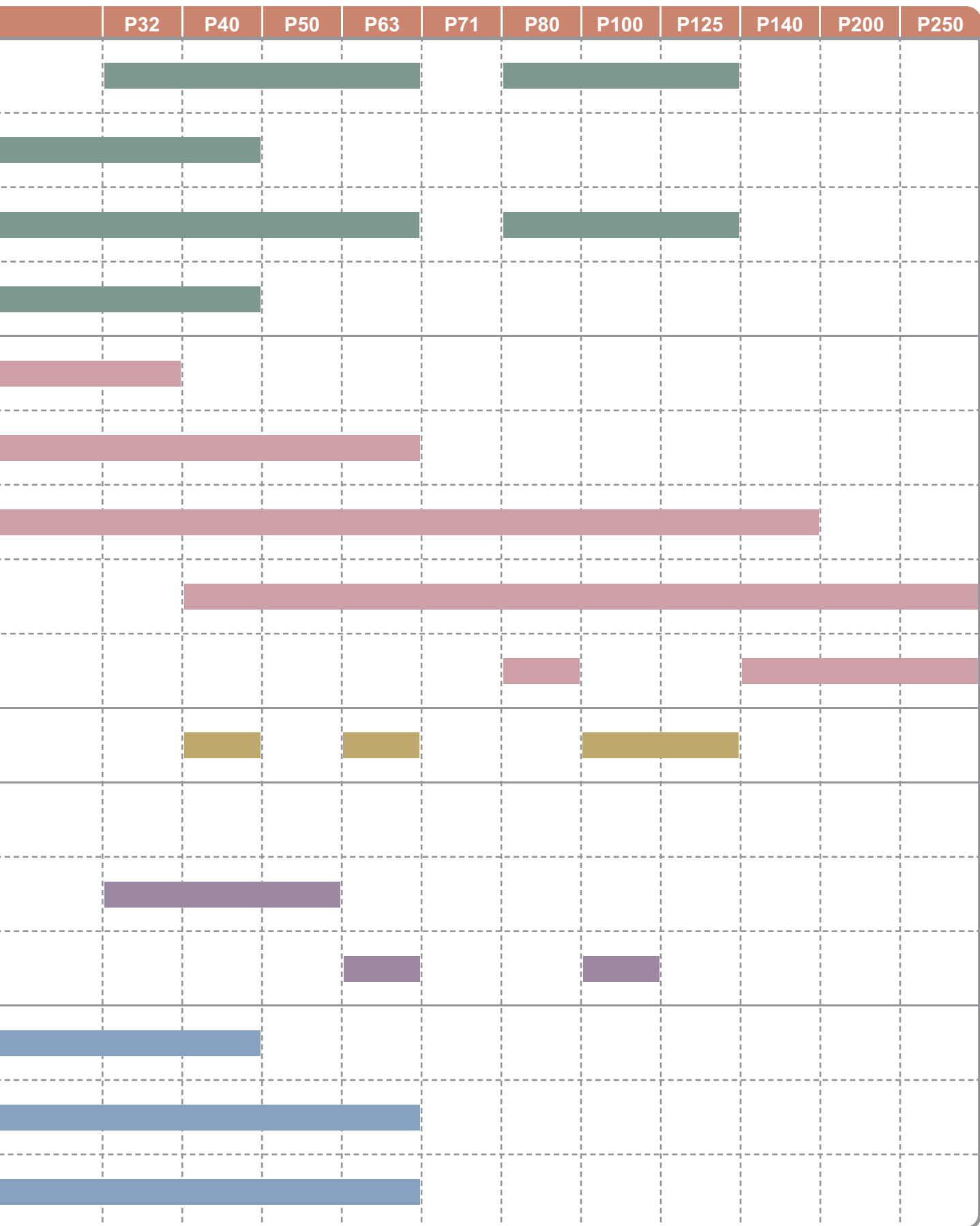


I ndoor unit

- **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**
- **Air to water unit**
-  **Logsnay**
- **OA Processing Units**

Wide Selection of Indoor Units

Type		Model name	Model	P15	P20	P25	
Ceiling Cassette	4-way air flow	PLFY-P VBM-E					
		PLFY-P VCM-E2					
	2-way air flow	PLFY-P VLMD-E					
	1-way air flow	PMFY-P VBM-E					
Ceiling Concealed		PEFY-P VMR-E-L/R					
		PEFY-P VMS1(L)-E					
		PEFY-P VMA(L)-E					
		PEFY-P VMH(S)-E					
		Fresh Air Intake	PEFY-P VMH-E-F				
Ceiling Suspended		PCFY-P VKM-E					
Wall Mounted		PKFY-P VBM-E					
		PKFY-P VHM-E					
		PKFY-P VKM-E					
Floor Standing/ Floor Mounted Concealed		PFFY-P VKM-E2					
		PFFY-P VLEM-E					
		PFFY-P VLRM-E PFFY-P VLRMM-E					

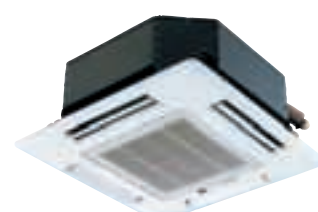


INDOOR UNIT Ceiling cassette type 4-way airflow

PLFY-P VBM-E *i-see Sensor*
PLFY-P VCM-E2



PLFY-P VBM

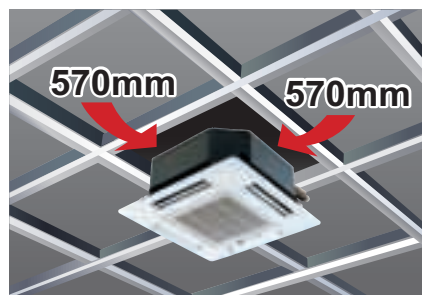


PLFY-P VCM

The new 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.



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



Automatic Air Speed Adjustment

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

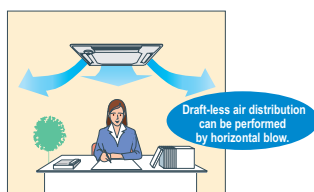
The Auto-fan-speed mode is added to the usual four steps "Low, Mid1, Mid2, High." The Auto-fan-speed mode enables speedy and comfortable air conditioning because the air flow speeds up when starting, and air flow slows down when the air conditioning becomes stable. (PLFY-P VBM-E ONLY)

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 blow mode* newly employed supplies airflow horizontally not bringing cooled/warmed air directly to occupants thus preventing discomfort sensation due to excessive cooling or direct exposing of occupants to the air blow. (PLFY-P VBM-E ONLY)



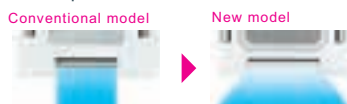
*Default

*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.



72 patterns of airflow to accommodate any room layout are available.

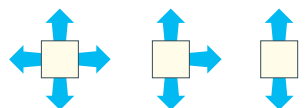
First in the industry

*On the commercial air conditioners (According to the survey by Mitsubishi Electric)

The number of outlet can be set to 4, 3, or 2. Flexible airflow is available by fixing the up-down airflow direction of the outlet with a wired remote controller (or manually).

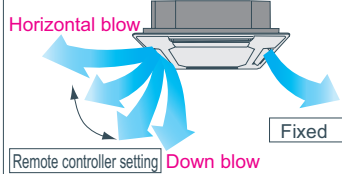
72 airflow patterns

4-, 3-, or 2- way outlet selection*



* Optional parts air outlet shutter plate (PLFY-P VBM-E ONLY) is required for 2 or 3 way outlet selection.

Setting the air direction for each outlet with wired remote controller

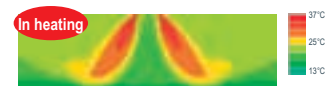


"i-see sensor" can be used with ceiling cassette type 4-way airflow unit. (Option PAC-SA1ME-E, PLYF-VBM-E ONLY)

New 4-way Cassette PLYF-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, PLYF-VBM-E ONLY)

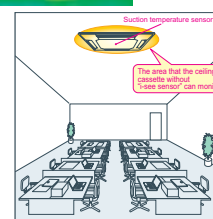
Prevents overcooling/overheating, and improves comfort/energy-efficiency

Without i-see sensor: preset temperature at 23°C



Feeling temperature at 20°C (Bottom 17°C)

Preset temperature is tended to be higher than we need, because heated air rises to the ceiling.

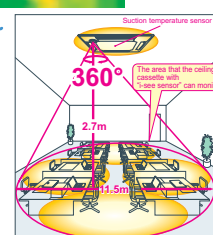


With i-see sensor+Auto fan speed: preset temperature at 20°C



Feeling temperature at 20°C (Bottom 20°C)

Auto-fan-speed mode of 4-way Cassette with "i-see sensor" heats the floor well and decreases the temperature difference at the top and bottom in a room.



► Specifications

			PLFY-P32VBM-E	PLFY-P40VBM-E	PLFY-P50VBM-E	PLFY-P63VBM-E	PLFY-P80VBM-E	PLFY-P100VBM-E	PLFY-P125VBM-E	
Power source			1-phase 220-240V 50Hz / 1-phase 220V 60Hz							
Cooling capacity	*1	kW	3.6	4.5	5.6	7.1	9.0	11.2	14.0	
	*1	BTU/h	12,300	15,400	19,100	24,200	30,700	38,200	47,800	
Heating capacity	*1	kW	4.0	5.0	6.3	8.0	10.0	12.5	16.0	
	*1	BTU/h	13,600	17,100	21,500	27,300	34,100	42,700	54,600	
Power consumption	Cooling	kW	0.03	0.04		0.05	0.07	0.15	0.16	
	Heating	kW	0.02	0.03		0.04	0.06	0.14	0.15	
Current	Cooling	A	0.22	0.29		0.36	0.51	1.00	1.07	
	Heating	A	0.14	0.22		0.29	0.43	0.94	1.00	
External finish (Munsell No.)	Unit	Galvanized steel sheet								
	Panel	White (6.4Y 8.9/0.4)								
Dimension H x W x D	Unit	mm(in.)	258 x 840 x 840 (10-3/16 x 33-8/1 x 33-8/1)					298 x 840 x 840 (11-3/4 x 33-1/8 x 33-1/8)		
	Panel	mm(in.)	35 x 950 x 950 (1-3/8 x 37-7/16 x 37-7/16)							
Net weight	Unit	kg(lbs.)	22 (49)			23 (51)		27 (60)		
	Panel	kg(lbs.)	6 (13)							
Heat exchanger			Cross fin (Aluminum plate fin and copper tube)							
Fan	Type x Quantity		Turbo fan x 1							
	Airflow rate (Lo-Mid1-Mid2-Hi)	*2	m³/min	11-12-13-14	12-13-14-16		14-15-16-18	16-18-20-22	21-24-27-29	22-25-28-30
			L/s	183-200-217-233	200-217-233-267		233-250-267-300	267-300-333-367	350-400-450-483	367-417-467-500
		cfm	388-424-459-494	424-459-494-565		494-530-565-636	565-636-706-777	742-848-953-1024	777-883-989-1059	
	External static pressure	Pa	0							
Motor	Type		DC motor							
	Output	kW	0.050					0.120		
Air filter			PP Honeycomb							
Refrigerant pipe diameter	Gas (Flare)	mm(in.)	ø12.7 (ø1/2)		ø12.7 (ø1/2) / ø15.88 (ø5/8) (Compatible)		ø15.88 (ø5/8)		ø15.88 (ø5/8) / ø19.05 (ø3/4) (Compatible)	
	Liquid (Flare)	mm(in.)	ø6.35 (ø1/4)		ø6.35 (ø1/4) / ø9.52 (ø3/8) (Compatible)		ø9.52 (ø3/8)			
Field drain pipe diameter		mm(in.)	O.D. 32 (1-1/4)							
Sound pressure level (Lo-Mid1-Mid2-Hi) *2 *3		dB(A)	27-28-29-31	27-28-30-31		28-29-30-32	30-32-35-37	34-37-39-41	35-38-41-43	

			PLFY-P15VCM-E2	PLFY-P20VCM-E2	PLFY-P25VCM-E2	PLFY-P32VCM-E2	PLFY-P40VCM-E2
Power source			1-phase 220-240V 50Hz				
Cooling capacity	*1	kW	1.7	2.2	2.8	3.6	4.5
	*1	BTU/h	5,800	7,500	9,600	12,300	15,400
Heating capacity	*1	kW	1.9	2.5	3.2	4.0	5.0
	*1	BTU/h	6,500	8,500	10,900	13,600	17,100
Power consumption	Cooling	kW	0.04	0.05	0.05	0.06	0.06
	Heating	kW	0.04	0.05	0.05	0.06	0.06
Current	Cooling	A	0.19	0.23	0.23	0.28	0.28
	Heating	A	0.19	0.23	0.23	0.28	0.28
External finish (Munsell No.)	Unit	Galvanized steel sheet with gray heat insulation					
	Panel	White (6.4Y 8.9/0.4)					
Dimension H x W x D	Unit	mm(in.)	208 x 570 x 570 (8-1/4 x 22-1/2 x 22-1/2)				
	Panel	mm(in.)	20 x 650 x 650 (13/16 x 25-5/8 x 25-5/8)				
Net weight	Unit	kg(lbs.)	15.5 (35)			17 (38)	
	Panel	kg(lbs.)	3 (7)			3 (7)	
Heat exchanger			Cross fin (Aluminum fin and copper tube)				
Fan	Type x Quantity		Turbo fan x 1				
	Airflow rate *2 (Lo-Mid-Hi)	m³/min	8-8.5-9	8-9-10	8-9-10	8-9-11	8-9-11
		L/s	133-142-150	133-150-167	133-150-167	133-150-183	133-150-183
		cfm	283-300-353	283-318-353	283-318-353	283-318-388	283-318-388
	External static pressure	Pa	0				
Motor	Type	1-phase induction motor					
	Output	kW	0.008	0.011	0.015	0.02	0.02
Air filter			PP Honeycomb fabric (long life type)				
Refrigerant pipe diameter	Gas(Flare)	mm(in.)	ø12.7 (ø1/2)				
	Liquid(Flare)	mm(in.)	ø6.35 (ø1/4)				
Field drain pipe diameter		mm(in.)	O.D. 32 (1-1/4) (PVC pipe VP-25 connectable)				
Sound pressure level (Lo-Mid-Hi) *2 *3		dB(A)	28-30-31	28-31-35	29-31-37	29-33-38	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 (low-middle-high) or (low-middle1-middle2-high).
- *3 It is measured in anechoic room at power source 230V.

INDOOR UNIT

Ceiling cassette type

2-way airflow

PLFY-P VLMD-E

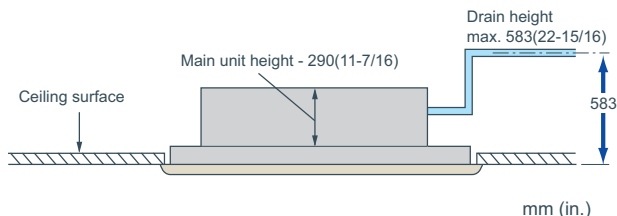


Slim body of 290mm(11-7/16in.) height



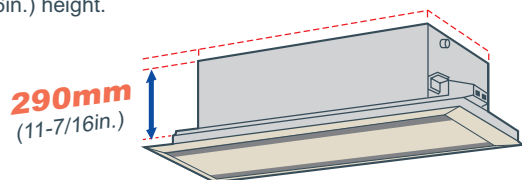
Equipped with drain pump mechanism as standard

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.



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

The slimline body is highly 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

Compact unit and low noise level attained!

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

Sound pressure Level	Capacity		P20	P25	P32	P40	P50	P63	P80	P100	P125
	Fan Speed	High	33			36	37	39	39	42	46
		Mid	30			33	34	37	36	39	42/44
		Low	27			29	31	32	33	36	40

<220V,240V>

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

<230V>

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.

► Specifications

			PLFY-P20VLM-D-E		PLFY-P25VLM-D-E		PLFY-P32VLM-D-E		PLFY-P40VLM-D-E	
Power source			1-phase 220-240V 50Hz / 1-phase 220-230V 60Hz							
Cooling capacity	*1	kW	2.2		2.8		3.6		4.5	
	*1	BTU/h	7,500		9,600		12,300		15,400	
Heating capacity	*1	kW	2.5		3.2		4.0		5.0	
	*1	BTU/h	8,500		10,900		13,600		17,100	
Power consumption	Cooling	kW	0.072 / 0.075		0.072 / 0.075		0.072 / 0.075		0.081 / 0.085	
	Heating	kW	0.065 / 0.069		0.065 / 0.069		0.065 / 0.069		0.074 / 0.079	
Current	Cooling	A	0.36 / 0.37		0.36 / 0.37		0.36 / 0.37		0.40 / 0.42	
	Heating	A	0.30 / 0.32		0.30 / 0.32		0.30 / 0.32		0.34 / 0.37	
External finish (Munsell No.)	Unit		Galvanized steel plate							
	Panel		Pure white (6.4Y 8.9/0.4)							
Dimension H x W x D	Unit	mm (in.)	290 x 776 x 634 (11-7/16 x 30-9/16 x 25)							
	Panel	mm (in.)	20 x 1080 x 710 (13/16 x 42-9/16 x 28)							
Net weight	Unit	kg(lbs.)	23 (51)				24 (53)			
	Panel	kg(lbs.)					6.5 (15)			
Heat exchanger			Cross fin							
Fan	Type x Quantity		Turbo fan x 1							
	Airflow rate *2 (Lo-Mid-Hi)	m³/min	6.5-8.0-9.5						7.0-8.5-10.5	
		L/s	108-133-158						117-142-175	
		cfm	230-283-335						247-300-371	
External static pressure		Pa	0							
Motor			1-phase induction motor							
Output			0.015 (at 240V)							
Air filter			PP honeycomb fabric (long life type)							
Refrigerant pipe diameter	Gas(Flare)	mm(in.)	ø12.7 (ø1/2)							
	Liquid(Flare)	mm(in.)	ø6.35 (ø1/4)							
Field drain pipe diameter		mm(in.)	O.D.32 (1-1/4)							
Sound pressure level (Lo-Mid-Hi)	220V,240V	dB(A)	27-30-33						29-33-36	
	*2 *3 230V	dB(A)	28-31-34						30-34-37	

			PLFY-P50VLM-D-E		PLFY-P63VLM-D-E		PLFY-P80VLM-D-E		PLFY-P100VLM-D-E		PLFY-P125VLM-D-E		
Power source			1-phase 220-240V 50Hz / 1-phase 220-230V 60Hz										
Cooling capacity	*1	kW	5.6		7.1		9.0		11.2		14.0		
	*1	BTU/h	19,100		24,200		30,700		38,200		47,800		
Heating capacity	*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 consumption	Cooling	kW	0.082 / 0.086		0.101 / 0.105		0.147 / 0.156		0.157 / 0.186		0.28 / 0.28		
	Heating	kW	0.075 / 0.080		0.094 / 0.099		0.140 / 0.150		0.150 / 0.180		0.27 / 0.27		
Current	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		
External finish (Munsell No.)	Unit		Galvanized steel plate										
	Panel		Pure white (6.4Y 8.9 / 0.4)										
Dimension H x W x D	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)		
	Panel	mm (in.)	20 x 1250 x 710 (13/16 x 49-1/4 x 28)				20 x 1750 x 710 (13/16 x 68-15/16 x 28)				20 x 2010 x 710 (13/16 x 79-3/16 x 28)		
Net weight	Unit	kg(lbs.)	27 (60)		28 (62)		44 (98)		47 (104)		56 (124)		
	Panel	kg(lbs.)	7.5 (17)				12.5 (28)				13.0 (29)		
Heat exchanger			Cross fin										
Fan	Type x Quantity		Turbo fan x 1				Turbo fan x 2				Sirocco fan x 4		
	Airflow rate *2 (P50-P100:Lo-Mid-Hi) (P125:Lo-Mid2-Mid1-Hi)	m³/min	9.0-11.0-12.5		11.0-13.0-15.5		15.5-18.5-22.0		17.5-21.0-25.0		24.0-27.0-30.0-33.0		
		L/s	150-183-208		167-217-258		258-308-367		292-350-417		400-450-500-550		
		cfm	318-388-441		353-459-547		547-653-777		618-742-883		848-953-1,059-1,165		
External static pressure		Pa	0										
Motor			1-phase induction motor										
Output		kW	0.020 (at 240V)				0.020 (at 240V)		0.030 (at 240V)		0.078 x 2 (at 240V)		
Air filter			PP honeycomb fabric (long life type)									Synthetic fiber unwoven cloth filter (long life)	
Refrigerant pipe diameter	Gas (Flare)	mm(in.)	ø12.7 (ø1/2)		ø15.88 (ø5/8)								
	Liquid (Flare)	mm(in.)	ø6.35 (ø1/4)		ø9.52 (ø3/8)								
Field drain pipe diameter		mm(in.)	O.D.32 (1-1/4)										
Sound pressure level (Lo-Mid-Hi)	220V,240V	dB(A)	31-34-37		32-37-39		33-36-39		36-39-42		40-42-44-46		
	*2 *3 230V	dB(A)	32-35-38		33-38-40		34-37-40		37-41-43		(Lo-Mid2-Mid1-Hi)		

Notes:

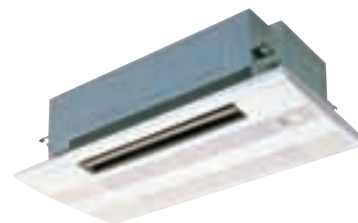
- *1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.
Cooling: Indoor 27°C(81°F)DB/19°C(66°F)WB, Outdoor 35°C(95°F)DB
Heating: Indoor 20°C(68°F)DB, Outdoor 7°C(45°F)DB/6°C(43°F)WB
- *2 Airflow rate/Sound pressure level are in (low-middle-high) or (low-middle2-middle1-high).
- *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 standardized 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

Newly developed airflow control technology reduces noise level to only 27dB (P20VBM) for industry-leading quiet performance.

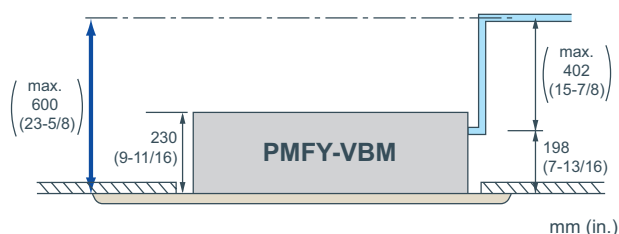
Sound pressure level table

Sound pressure level	Capacity		P20	P25	P32	P40
	Fan Speed	High	35	37		39
		Mid 1	33	36		37
		Mid 2	30	34		35
		Low	27	32		33

<220V,240V>

Drain pump

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



► Specifications

			PMFY-P20VBM-E	PMFY-P25VBM-E	PMFY-P32VBM-E	PMFY-P40VBM-E
Power source			1-phase 220-240V 50Hz / 1-phase 220V 60Hz			
Cooling capacity	*1	kW	2.2	2.8	3.6	4.5
	*1	BTU/h	7,500	9,600	12,300	15,400
Heating capacity	*1	kW	2.5	3.2	4.0	5.0
	*1	BTU/h	8,500	10,900	13,600	17,100
Power consumption	Cooling	kW	0.042	0.044		0.054
	Heating	kW	0.042	0.044		0.054
Current	Cooling	A	0.20	0.21		0.26
	Heating	A	0.20	0.21		0.26
External finish (Munsell No.)			White (0.98Y 8.99/0.63)			
Dimension H x W x D	Unit	mm(in.)	230 x 812 x 395 (9-1/16 x 32 x 15-9/16)			
	Panel	mm(in.)	30 x 1000 x 470 (1-3/16 x 39-3/8 x 18-9/16)			
Net weight	Unit	kg(lbs.)	14 (31)			
	Panel	kg(lbs.)	3 (7)			
Heat exchanger			Cross fin (Aluminum plate fin and copper tube)			
Fan	Type		Line flow fan x 1			
	Airflow rate *2 (Lo-Mid2-Mid1-Hi)	m³/min	6.5-7.2-8.0-8.7	7.3-8.0-8.6-9.3		7.7-8.7-9.7-10.7
		L/s	108-120-133-145	122-133-143-155		128-145-162-178
	External static pressure	cfm	230-254-283-307	258-283-304-328		272-307-343-378
Motor	External static pressure	Pa	0			
	Type		1-phase induction motor			
Motor	Output	kW	0.028			
	Air filter		PP Honeycomb fabric			
Refrigerant	Gas(Flare)	mm(in.)	ø12.7 (ø1/2)			
pipe diameter	Liquid(Flare)	mm(in.)	ø6.35 (ø1/4)			
Field drain pipe diameter		mm(in.)	O.D. 26 (1)			
Sound pressure level (Lo-Mid2-Mid1-Hi) *2 *3		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

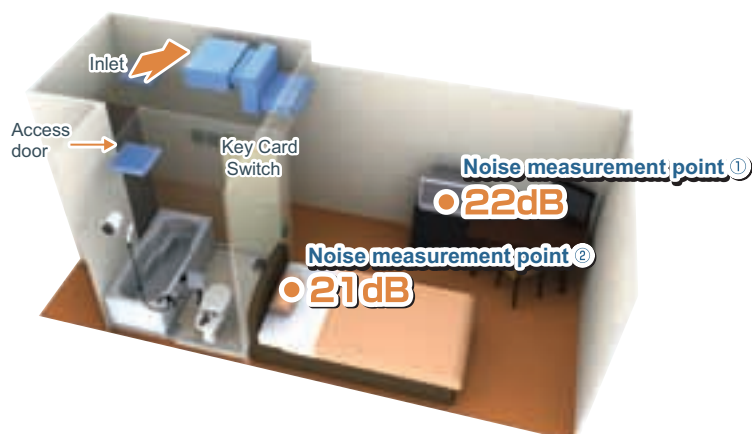
Ceiling concealed type



PEFY-P VMR-E-L/R

Static Pressure 5Pa	Width 640mm <small>25-6/32in.</small>	Ultra Low Noise	Piping connection L model R model
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Problem solver for residential hotels, museums, libraries, or hospitals where low noise is especially 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.

Energy saving

Energy saving can be realized by preventing us from failing to switch off of the air conditioners with a centralized 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.

Easy Maintenance

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

► Specifications

			PEFY-P20VMR-E-L	PEFY-P25VMR-E-L	PEFY-P32VMR-E-L
Power source			1-phase 220-230-240V 50Hz / 1-phase 220-230V 60Hz		
Cooling capacity	*1	kW	2.2	2.8	3.6
	*1	BTU/h	7,500	9,600	12,300
Heating capacity	*1	kW	2.5	3.2	4.0
	*1	BTU/h	8,500	10,900	13,600
Power consumption	Cooling	kW	0.06 / 0.06	0.06 / 0.06	0.07 / 0.08
	Heating	kW	0.06 / 0.06	0.06 / 0.06	0.07 / 0.08
Current	Cooling	A	0.29 / 0.29	0.29 / 0.29	0.34 / 0.38
	Heating	A	0.29 / 0.29	0.29 / 0.29	0.34 / 0.38
External finish			Galvanized		
Dimension	Rear inlet	mm (in.)	292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)		
H x W x D	Bottom inlet	mm (in.)	300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2)		
Net weight		kg(lbs.)	18 (40)		
Heat exchanger			Cross fin (Aluminum fin and copper tube)		
Fan	Type x Quantity		Sirocco fan x 1		
	Airflow rate (Lo-Mid-Hi)	m ³ /min	4.8-5.8-7.9		4.8-5.8-9.3
		L/s	80-97-132		80-97-155
		cfm	170-205-279		170-205-328
Motor	External static pressure	*2 Pa	5		
	Type		1-phase induction motor		
Air filter	Output	kW	0.018		0.023
			PP Honeycomb fabric (washable)		
Refrigerant	Gas	mm(in.)	ø12.7 (ø1/2) Braze		
pipe diameter	Liquid	mm(in.)	ø6.35 (ø1/4) Braze		
Field drain pipe diameter		mm(in.)	O.D. 26 (1)		
Sound pressure level (Lo-Mid-Hi)*3	220V	dB(A)	20-25-30		20-25-33
	230V		21-26-32		21-26-35
	240V		22-27-30		22-27-33

			PEFY-P20VMR-E-R	PEFY-P25VMR-E-R	PEFY-P32VMR-E-R
Power source			1-phase 220-230-240V 50Hz / 1-phase 220-230V 60Hz		
Cooling capacity	*1	kW	2.2	2.8	3.6
	*1	BTU/h	7,500	9,600	12,300
Heating capacity	*1	kW	2.5	3.2	4.0
	*1	BTU/h	8,500	10,900	13,600
Power consumption	Cooling	kW	0.06 / 0.06	0.06 / 0.06	0.07 / 0.08
	Heating	kW	0.06 / 0.06	0.06 / 0.06	0.07 / 0.08
Current	Cooling	A	0.29 / 0.29	0.29 / 0.29	0.34 / 0.38
	Heating	A	0.29 / 0.29	0.29 / 0.29	0.34 / 0.38
External finish			Galvanized		
Dimension	Rear inlet	mm (in.)	292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)		
H x W x D	Bottom inlet	mm (in.)	300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2)		
Net weight		kg(lbs.)	18 (40)		
Heat exchanger			Cross fin (Aluminum fin and copper tube)		
Fan	Type x Quantity		Sirocco fan x 1		
	Airflow rate (Lo-Mid-Hi)	m ³ /min	4.8-5.8-7.9		4.8-5.8-9.3
		L/s	80-97-132		80-97-155
		cfm	170-205-279		170-205-328
Motor	External static pressure	*2 Pa	5		
	Type		1-phase induction motor		
Air filter	Output	kW	0.018		0.023
			PP Honeycomb fabric (washable)		
Refrigerant	Gas	mm(in.)	ø12.7 (ø1/2) Braze		
pipe diameter	Liquid	mm(in.)	ø6.35 (ø1/4) Braze		
Field drain pipe diameter		mm(in.)	O.D. 26(1)		
Sound pressure level (Lo-Mid-Hi)*3	220V	dB(A)	20-25-30		20-25-33
	230V		21-26-32		21-26-35
	240V		22-27-30		22-27-33

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

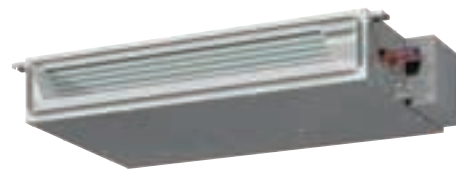
Heating: Indoor 20°C (68°F) DB, Outdoor 7°C (45°F) DB/6°C (43°F) WB

*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

Ceiling concealed type



PEFY-P VMS1(L)-E

Static Pressure 5~50Pa	Height 200mm 7-28/32in.	Low Noise	Width 790mm 31-1/8in.	Width 990mm 39in.	Width 1,190mm 46-7/8in.
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The ultra thin unit of 200mm offers increased flexibility, and is particularly suitable for places where low noise operation is desired from 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.

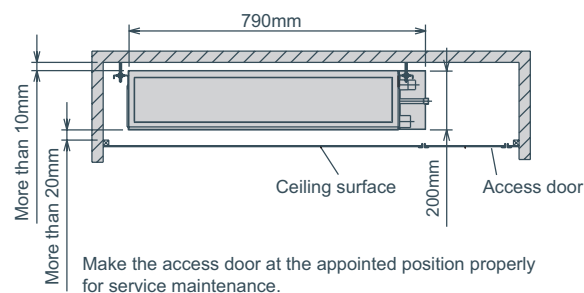
*For places where low noise operation is especially required (i.e. Hotels), VMS1L (without drain pump) is recommended.

PP Honeycomb fabric

Washable PP Honeycomb fabric filter as standard.

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

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

► Specifications

			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 source			1-phase 220-240V 50Hz / 1-phase 220-240V 60Hz							
Cooling capacity	*1	kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1	
	*1	BTU/h	5,800	7,500	9,600	12,300	15,400	19,100	24,200	
Heating capacity	*1	kW	1.9	2.5	3.2	4.0	5.0	6.3	8.0	
	*1	BTU/h	6,500	8,500	10,900	13,600	17,100	21,500	27,300	
Power consumption	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]	
	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]	
Current	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]	
	Heating	A	0.31 [0.31]	0.36 [0.36]	0.39 [0.39]	0.39 [0.39]	0.45 [0.45]	0.56 [0.56]	0.61 [0.61]	
External finish			Galvanized							
Dimension		mm	200 x 790 x 700				200 x 990 x 700		200 x 1,190 x 700	
H x W x D		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 weight		*3 kg(lbs.)	19(42) [18(40)]			20(45) [19(42)]	24(53) [23(51)]		28(62) [27(60)]	
Heat exchanger			Cross fin (Aluminium fin and copper tube)							
Fan	Type x Quantity		Sirocco fan x 2				Sirocco fan x 3		Sirocco fan x 4	
	Airflow rate (Lo-Mid-Hi)	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	
		L/s	83-100-117	91-108-133	91-117-150	100-133-167	133-158-183	158-183-217	200-233-275	
		cfm	176-212-247	194-229-282	194-247-317	212-282-353	282-335-388	335-388-459	424-494-583	
	External static press	Pa	5-15-35-50							
Motor	type		DC motor							
	output	kW	0.096							
Air filter			PP Honeycomb fabric (washable)							
Refrigerant pipe diameter	Gas	mm(in.)	ø12.7 (ø1/2) Brazed						ø15.88 (ø5/8) Brazed	
	Liquid	mm(in.)	ø6.35 (ø1/4) Brazed						ø9.52 (ø3/8) Brazed	
Field drain pipe diameter		mm(in.)	O.D. 32 (1-1/4)							
Sound pressure level (Lo-Mid-Hi) (measured in anechoic room)			dB<A>	22-24-28	23-25-29	24-26-30	24-27-32	28-30-33	30-32-35	30-33-36

★PEFY-P15VMS1(L)-E can only be connected to YHM and YJM outdoor units.

	PEFY-P15VMS1(L)-E
PURY-P YHM, YJM	○
PUHY-P YHM, YJM	○
PUMY-P VHMA / VHMB	○
PUMY-P YHMA / YHMB	○
PQRY-P YGM	×
PQHY-P YGM	×
PQRY-P YHM	○
PQHY-P YHM	○

Notes:

- *1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.
Cooling: Indoor: 27°CDB./19°CWB. (81°FDB./ 66°FWB.). Outdoor: 35°CDB. (95°FDB.)
Heating: Indoor: 20°CDB. (68°FDB.). Outdoor: 7°CDB. / 6°CWB. (45°FDB. / 43°FWB.).
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
35~150Pa

Slim Body
Height 250mm

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



Reduction in height size

PEFY-P VMA(L)		20	25	32	40	50	63	71	80	100	125	140
Height	mm	250										
Width	mm	700			900		1,100			1,400		1,600
Depth	mm	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.

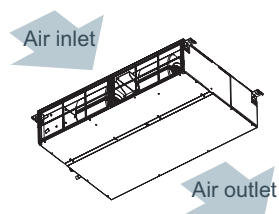
External static pressure setting

Series	20	25	32	40	50	63	71	80	100	125	140
PEFY-P VMA(L)	35/50/70/100/150Pa										

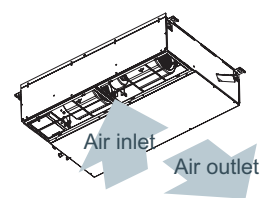


Air Inlet

(1) Rear inlet



(2) Bottom inlet



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 VMA(L)-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.

Specifications

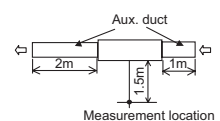
			PEFY-P20VMA(L)-E	PEFY-P25VMA(L)-E	PEFY-P32VMA(L)-E	PEFY-P40VMA(L)-E	PEFY-P50VMA(L)-E
Power source			1-phase 220-230-240V 50 / 60Hz				
Cooling capacity (Nominal)	*1	kW	2.2	2.8	3.6	4.5	5.6
	*1	BTU/h	7,500	9,600	12,300	15,400	19,100
Heating capacity (Nominal)	*2	kW	2.5	3.2	4.0	5.0	6.3
	*2	BTU/h	8,500	10,900	13,600	17,100	21,500
Power consumption	Cooling *3	kW	0.06 [0.04]	0.06 [0.04]	0.07 [0.05]	0.09 [0.07]	0.11 [0.09]
	Heating *3	kW	0.04	0.04	0.05	0.07	0.09
Current	Cooling *3	A	0.53 [0.42]	0.53 [0.42]	0.55 [0.44]	0.64 [0.53]	0.74 [0.63]
	Heating *3	A	0.42	0.42	0.44	0.53	0.63
External finish			Galvanized steel plate				
Dimension H x W x D	mm		250 x 700 x 732	250 x 700 x 732	250 x 700 x 732	250 x 900 x 732	250 x 900 x 732
	in.		9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 35-7/16 x 28-7/8	9-7/8 x 35-7/16 x 28-7/8
Net weight		kg(lbs)	23 (51) [22 (49)]	23 (51) [22 (49)]	23 (51) [22 (49)]	26 (58) [25 (56)]	26 (58) [25 (56)]
Heat exchanger			Cross fin (Aluminum fin and copper tube)				
Fan	Type x Quantity		Sirocco fan x 1				
	Airflow rate (Low-Mid-High)	m³/min	6.0 - 7.5 - 8.5	6.0 - 7.5 - 8.5	7.5 - 9.0 - 10.5	10.0 - 12.0 - 14.0	12.0 - 14.5 - 17.0
		L/s	100 - 125 - 142	100 - 125 - 142	125 - 150 - 175	167 - 200 - 233	200 - 242 - 283
		cfm	212 - 265 - 300	212 - 265 - 300	265 - 318 - 371	353 - 424 - 494	424 - 512 - 600
External static pressure *4	Pa	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	
Motor	Type		DC motor				
	Output	kW	0.085	0.085	0.085	0.085	0.085
Air filter			PP honeycomb fabric.				
Refrigerant pipe diameter	Liquid (R410A) (R22,R407C)	mm(in.)	6.35 (1/4) Brazed 6.35 (1/4) Brazed	6.35 (1/4) Brazed 6.35 (1/4) Brazed	6.35 (1/4) Brazed 6.35 (1/4) Brazed	6.35 (1/4) Brazed 6.35 (1/4) Brazed	6.35 (1/4) Brazed 9.52 (3/8) Brazed
	Gas (R410A) (R22,R407C)	mm(in.)	12.7 (1/2) Brazed 12.7 (1/2) Brazed	12.7 (1/20) Brazed 12.7 (1/20) Brazed	12.7 (1/20) Brazed 12.7 (1/20) Brazed	12.7 (1/20) Brazed 12.7 (1/2) Brazed	12.7 (1/2) Brazed 15.88 (5/8) Brazed
Field drain pipe diameter		mm(in.)	O.D.32 (1-1/4)	O.D.32(1-1/4)	O.D.32(1-1/4)	O.D.32 (1-1/4)	O.D.32 (1-1/4)
Sound pressure level (measured in anechoic room)							
(Low-Mid-High)	*3 *5	dB(A)	26-28-29	26-28-29	28-30-34	28-30-34	28-32-35
	*3 *6	dB(A)	23-25-26	23-25-26	23-26-29	23-27-30	25-29-32

			PEFY-P63VMA(L)-E	PEFY-P71VMA(L)-E	PEFY-P80VMA(L)-E	PEFY-P100VMA(L)-E	PEFY-P125VMA(L)-E	PEFY-P140VMA(L)-E
Power source			1-phase 220-230-240V 50 / 60Hz					
Cooling capacity (Nominal)	*1	kW	7.1	8.0	9.0	11.2	14.0	16.0
	*1	BTU/h	24,200	27,300	30,700	38,200	47,800	54,600
Heating capacity (Nominal)	*2	kW	8.0	9.0	10.0	12.5	16.0	18.0
	*2	BTU/h	27,300	30,700	34,100	42,700	54,600	61,400
Power consumption	Cooling *3	kW	0.12 [0.10]	0.14 [0.12]	0.14 [0.12]	0.24 [0.22]	0.34 [0.32]	0.36 [0.34]
	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]	1.15 [1.04]	1.47 [1.36]	2.05 [1.94]	2.21 [2.10]
	Heating *3	A	0.90	1.04	1.04	1.36	1.94	2.10
External finish			Galvanized steel plate					
Dimension H x W x D	mm		250 x 1,100 x 732	250 x 1,100 x 732	250 x 1,100 x 732	250 x 1,400 x 732	250 x 1,400 x 732	250 x 1,600 x 732
	in.		9-7/8 x 43-5/16 x 28-7/8	9-7/8 x 43-5/16 x 28-7/8	9-7/8 x 43-5/16 x 28-7/8	9-7/8 x 55-1/8 x 28-7/8	9-7/8 x 55-1/8 x 28-7/8	9-7/8 x 63 x 28-7/8
Net weight		kg(lbs)	32 (71) [31(69)]	32 (71) [31 (69)]	32 (71) [31 (69)]	42 (93) [41 (91)]	42 (93) [41 (91)]	46 (102) [45 (10)]
Heat exchanger			Cross fin (Aluminum fin and copper tube)					
Fan	Type x Quantity		Sirocco fan x 1					
	Airflow rate (Low-Mid-High)	m³/min	13.5 - 16.0 - 19.0	14.5 - 18.0 - 21.0	14.5 - 18.0 - 21.0	23.0 - 28.0 - 33.0	28.0 - 34.0 - 40.0	29.5 - 35.5 - 42.0
		L/s	225 - 267 - 317	242 - 300 - 350	242 - 300 - 350	383 - 467 - 550	467 - 567 - 667	492 - 592 - 700
		cfm	477 - 565 - 671	512 - 636 - 742	512 - 636 - 742	812 - 989 - 1,165	989 - 1,201 - 1,412	1,042 - 1,254 - 1,483
External static pressure *4	Pa	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	
Motor	Type		DC motor					
	Output	kW	0.121	0.121	0.121	0.244	0.244	0.244
Air filter			PP honeycomb fabric.					
Refrigerant pipe diameter	Liquid (R410A) (R22,R407C)	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	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
	Gas (R410A) (R22,R407C)	mm(in.)	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 15.88 (5/8) Brazed	15.88 (5/8) Brazed 19.05 (3/4) Brazed	15.88 (5/8) Brazed 19.05 (3/4) Brazed	15.88 (5/8) Brazed 19.05 (3/4) Brazed
Field drain pipe diameter		mm(in.)	O.D.32 (1-1/4)	O.D.32 (1-1/4)	O.D.32 (1-1/4)	O.D.32 (1-1/4)	O.D.32 (1-1/4)	O.D.32 (1-1/4)
Sound pressure level (measured in anechoic room)								
(Low-Mid-High)	*3 *5	dB(A)	29-32-36	30-34-38	30-34-38	32-37-41	35-40-44	36-41-45
	*3 *6	dB(A)	25-29-33	26-29-34	26-29-34	28-33-37	32-36-40	33-37-42

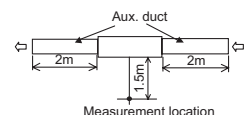
Notes:

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

- *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.



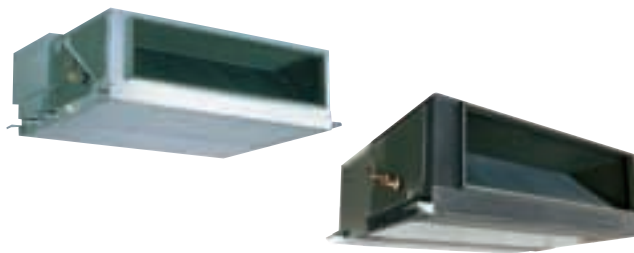
- *6 Measured in anechoic room with a 2m air inlet duct and 2m air outlet duct attached to the unit and 1.5m below the unit.



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	P50	P63	P71	P80	P100	P125	P140	P200	P250
External static pressure (Pa)	220V	50/100/200								—
	230/240V	100/150/200								—
	380V	—								110/220
	400/415V	—								130/260

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

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

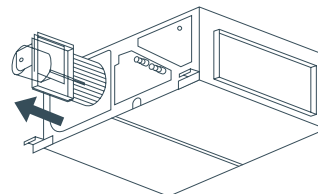
Reduced noise thanks to the use of newly designed centrifugal fan

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	Low	High	Low	High	Low	High	Low	
	High	34	34	38	39	41	42	42	42	
	Low	27	27	32	32	35	34	34	34	

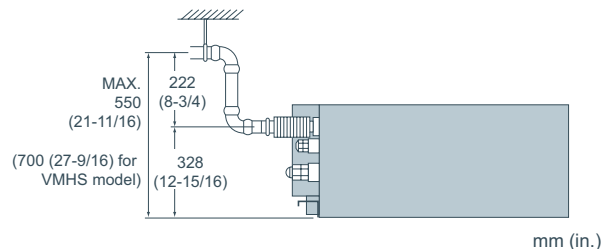
One-side maintenance

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.



Specifications

			PEFY-P40VMH-E	PEFY-P50VMH-E	PEFY-P63VMH-E	PEFY-P71VMH-E	PEFY-P80VMH-E	PEFY-P100VMH-E	PEFY-P125VMH-E	PEFY-P140VMH-E
Power source			1-phase 220-240V 50Hz / 1-phase 220-240V 60Hz							
Cooling capacity	*1	kW	4.5	5.6	7.1	8.0	9.0	11.2	14.0	16.0
	*1	BTU/h	15,400	19,100	24,200	27,300	30,700	38,200	47,800	54,600
Heating capacity	*1	kW	5.0	6.3	8.0	9.0	10.0	12.5	16.0	18.0
	*1	BTU/h	17,100	21,500	27,300	30,700	34,100	42,700	54,600	61,400
Power consumption	Cooling	kW	0.19 / 0.23		0.24 / 0.30		0.26 / 0.33		0.48 / 0.58	
	Heating	kW	0.19 / 0.23		0.24 / 0.30		0.32 / 0.40		0.48 / 0.58	
Current	Cooling	A	0.88 / 1.06		1.12 / 1.38		1.20 / 1.51		2.34 / 2.66	
	Heating	A	0.88 / 1.06		1.12 / 1.38		1.20 / 1.51		2.34 / 2.66	
External finish			Galvanized							
Dimension H x W x D	mm		380 x 750 x 900			380 x 1,000 x 900		380 x 1,200 x 900		
	in.		15 x 29-9/16 x 35-7/16			15 x 39-3/8 x 35-7/16		15 x 47-1/4 x 35-7/16		
Net weight		kg(lbs.)	44 (98)	45 (100)		50 (111)		70 (155)		
Heat exchanger			Cross fin (Aluminum plate fin and copper tube)							
Fan	Type x Quantity		Sirocco fan x 1				Sirocco fan x 2			
	Airflow rate (Lo-Hi)	m³/min	10.0-14.0		13.5-19.0		15.5-22.0		26.5-38.0	
		L/s	167-233		225-317		258-367		442-633	
		cfm	353-494		477-671		547-777		936-1342	
	External static pressure *2	220V	Pa		50 · 100 · 200					
		230,240V	Pa		100 · 150 · 200					
Motor	Type		1-phase induction motor							
	Output	*3 kW	0.08		0.12	0.14	0.18	0.26		
Air filter (option)			Synthetic fiber unwoven cloth filter (long life)							
Refrigerant pipe diameter	Gas (Flare)	mm(in.)	ø12.7 (ø1/2)			ø15.88 (ø5/8)				
	Liquid (Flare)	mm(in.)	ø6.35 (ø1/4)			ø9.52 (ø3/8)				
Field drain pipe diameter		mm(in.)	O.D. 32 (1-1/4)							
Sound pressure level (Lo-Hi) *6	220V	dB(A)	27-34		32-38	32-39	35-41	34-42		
	230,240V	dB(A)	31-37		36-41	35-41	38-43	38-44		

			PEFY-P200VMH-E	PEFY-P250VMH-E	PEFY-P200VMHS-E	PEFY-P250VMHS-E
Power source			3-phase 380-415V 50Hz / 3N ~ 380-415V 60Hz		1-phase 220-240V 50Hz / 1-phase 220-240V 60Hz	
Cooling capacity	*1	kW	22.4	28.0	22.4	28.0
	*1	BTU/h	76,400	95,500	76,400	95,500
Heating capacity	*1	kW	25.0	31.5	25.0	31.5
	*1	BTU/h	85,300	107,500	85,300	107,500
Power consumption	Cooling	kW	0.99 / 1.14	1.23 / 1.41	0.63 *7	0.82 *7
	Heating	kW	0.99 / 1.14	1.23 / 1.41	0.63 *7	0.82 *7
Current	Cooling	380-415V A	1.62 / 1.86	2.00 / 2.30	—	—
		220-230-240V A	—	—	3.47-3.32-3.18 *7	4.72-4.43-4.14 *7
	Heating	380-415V A	1.62 / 1.86	2.00 / 2.30	—	—
		220-230-240V A	—	—	3.47-3.32-3.18 *7	4.72-4.43-4.14 *7
External finish			Galvanized		Galvanized steel plate	
Dimension H x W x D	mm		470 x 1,250 x 1,120		470 x 1,250 x 1,120	
	in.		18-9/16 x 49-1/4 x 44-1/8		18-9/16 x 49-1/4 x 44-1/8	
Net weight		kg(lbs.)	100 (221)		97 (214)	100 (221)
Heat exchanger			Cross fin (Aluminum plate fin and copper tube)		Cross fin (Aluminum plate fin and copper tube)	
Fan	Type x Quantity		Sirocco fan x 2		Sirocco fan x 2	
	Airflow rate	m³/min	58.0	72.0	—	—
		L/s	967	1200	—	—
		cfm	2048	2543	—	—
	Lo-Mid-Hi	m³/min	—	—	50.0-61.0-72.0	58.0-71.0-84.0
		L/s	—	—	833-1017-1200	967-1183-1400
		cfm	—	—	1766-2154-2542	2048-2507-2966
	External static pressure	380V Pa	110 · 220 *4		—	
		400,415V Pa	130 · 260 *4		—	
		Pa	—		<50>-<100>-150-<200>-<250> *8	
mmH ₂ O		—		<5.1>-<10.2>-15.3-<20.4>-<25.5> *8		
Motor	Type		3-phase induction motor		DC motor	
	Output	kW	0.76 *5	1.08 *5	0.87	0.87
Air filter(option)			Synthetic fiber unwoven cloth filter (long life)		Synthetic fiber unwoven cloth filter (long life filter) and filter box are recommended.	
Refrigerant pipe diameter	Gas (Brazed)	mm(in.)	ø19.05 (ø3/4)	ø22.2 (ø7/8)	ø19.05 (ø3/4)	ø22.2 (ø7/8)
	Liquid (Brazed)	mm(in.)	ø9.52 (ø3/8)		ø9.52 (ø3/8)	
Field drain pipe diameter		mm(in.)	O.D. 32 (1-1/4)		O.D. 32 (1-1/4)	
Sound pressure level	380V	dB(A)	42 (110Pa) / 45 (220Pa) *6	50 (110Pa) / 52 (220Pa) *6	—	—
	400,415V	dB(A)	44 (130Pa) / 47 (260Pa) *6	52 (130Pa) / 54 (260Pa) *6	—	—
	Lo-Mid-Hi	dB(A)	—	—	36-39-43 *9	39-42-46 *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, 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 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.

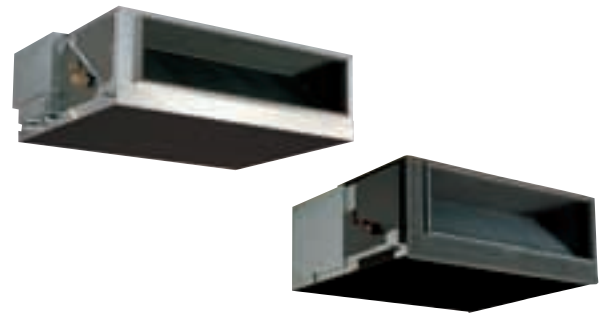
- *6 It is measured in anechoic room.
- *7 The values are measured at the rated external static pressure.
- *8 The rated external static pressure is shown without < > .
The factory setting is the rated value.
- *9 It is measured at the rated external static pressure in anechoic room.

INDOOR UNIT Fresh Air Intake Type

PEFY-P VMH-E-F

**Fresh
Air Intake**

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.**

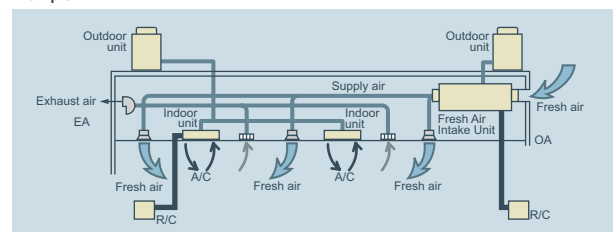
The Fresh Air intake indoor unit can take fresh outdoor air into any building in any place at any time.

**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, excepting 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 other type of indoor unit is recommended to prevent cold draft which is caused due to intaken fresh air.

► Specifications

			PEFY-P80VMH-E-F	PEFY-P140VMH-E-F
Power source			1-phase 220-240V 50Hz / 1-phase 208-230V 60Hz	
Cooling capacity	*1	kW	9.0	16.0
	*1	BTU/h	30,700	54,600
Heating capacity	*1	kW	8.5	15.1
	*1	BTU/h	29,000	51,500
Power consumption	Cooling	kW	0.16 / 0.21	0.29 / 0.33
	Heating	kW	0.16 / 0.21	0.29 / 0.33
Current	Cooling	A	0.67 / 0.91	1.24 / 1.48
	Heating	A	0.67 / 0.91	1.24 / 1.48
External finish			Galvanized	
Dimension			380 x 1000 x 900	380 x 1200 x 900
H x W x D			(15 x 39-3/8 x 35-7/16)	(15 x 47-1/4 x 35-7/16)
Net weight			50 (111)	70 (155)
Heat exchanger			Cross fin (Aluminum plate fin and copper tube)	
Fan	Type x Quautity		Sirocco fan x 1	Sirocco fan x 2
	Airflow rate	m³/min	9.0	18.0
		L/s	150	300
		cfm	318	636
	External static pressure (Lo-Mid-Hi)	208V Pa	35 - 85 - 170	35 - 85 - 170
		220V Pa	40 - 115 - 190	50 - 115 - 190
		230V Pa	50 - 130 - 210	60 - 130 - 220
		240V Pa	80 - 170 - 220	100 - 170 - 240
Motor	Type		1-phase induction motor	
	Output	kW	0.09 (at 220V)	0.14 (at 220V)
Air filter (option)			Synthetic fiber unwoven cloth filter (long life)	
Refrigerant pipe diameter	Gas (Flare)	mm(in.)	ø15.88 (ø5/8)	
	Liquid (Flare)	mm(in.)	ø9.52 (ø3/8)	
Field drain pipe diameter			O.D.32 (1-1/4)	
Sound pressure level (Lo-Mid-Hi)	*2	208, 220V dB(A)	27 - 38 - 43	28 - 38 - 43
		230, 240V dB(A)	33 - 43 - 45	34 - 43 - 45

			PEFY-P200VMH-E-F	PEFY-P250VMH-E-F
Power source			3-phase 380-415V 50Hz / 3N~ 380-415V 60Hz	
Cooling capacity		kW	22.4	28.0
		BTU/h	76,400	95,500
Heating capacity		kW	21.2	26.5
		BTU/h	72,300	90,400
Power consumption	Cooling	kW	0.34 / 0.42	0.39 / 0.50
	Heating	kW	0.34 / 0.42	0.39 / 0.50
Current	Cooling	A	0.58 / 0.74	0.68 / 0.86
	Heating	A	0.58 / 0.74	0.68 / 0.86
External finish			Galvanized	
Dimension			470 x 1250 x 1120	
H x W x D			(18-9/16 x 49-1/4 x 44-1/8)	
Net weight			100 (221)	
Heat exchanger			Cross fin (Aluminum plate fin and copper tube)	
Fan	Type x Quautity		Sirocco fan x 2	
	Airflow rate	m³/min	28	35
		L/s	467	583
		cfm	989	1236
	External static pressure	380V Pa	140 / 200	110 / 190
		400V Pa	150 / 210	120 / 200
		415V Pa	160 / 220	130 / 210
	Type		3-phase induction motor	
Motor	Output	kW	0.20	0.23
Air filter (option)			Synthetic fiber unmoven cloth filter (long life type)	
Refrigerant pipe diameter	Gas (Flare)	mm(in.)	ø19.05 (ø3/4)	ø22.2 (ø7/8)
	Liquid (Flare)	mm(in.)	ø9.52 (ø3/8)	
Field drain pipe diameter			O.D.32 (1-1/4)	
Sound pressure level	*2	380V dB(A)	39 / 42	40 / 44
		400V dB(A)	40 / 43	40 / 45
		415V dB(A)	40 / 44	41 / 46

Notes:

- The cooling and heating capacities are the maximum capacities that were obtained 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 information.
- The operating noise is the data that was obtained by measuring it 1.5m from the bottom of the unit in an anechoic room. (Noise meter A-scale value)
- The figure of Electrical characteristic indicates at 240V 50Hz/230V60Hz (PEFY-P80, 140VMH-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

Heat pump models	Cooling only
110%(100% in case of heating below-5°C(23°F))	110%

- Operational temp range is (Cooling : from 21°C(70°F)DB/15.5°C(60°F)WB to 43°C(109°F)DB/35°C(95°F)WB)
(Heating : from -10°C(14°F)DB to 20°C(68°F)DB)

* Thermo off(Fan) operation automatically starts either when temperature is lower than 21°C(70°F)DB in cooling mode or when the temperature exceeds 20°C(68°F)DB in heating mode.

- As the room temp in sensed by the thermo in the remote controller or the one in the room, be sure to use either remote controller or room thermo.
 - Autochangeover function or Dry mode is NOT available. Fan mode operation during the thermo off in Cooling/Heating mode.
 - In any case, the air flow rate should be kept lower than 110% of the above chart. Please see "Fan curves" for the details.
 - When this unit is used as sole A/C system, be careful about the dew in air outlet grilles in cooling mode.
 - Un-conditioned outdoor air such as humid air or cold air blows to the indoor during thermo off operation.
- Please be careful when positioning indoor unit air outlet grilles, ie take the necessary precautions for cold air, and also insulate rooms for dew condensation prevention as required.
- Air filter must be installed in the air intake side. The filter should be attached where easy maintenance is possible in case of usage of fild supply filters.
 - Long life cannot be used with Hi-efficiency filter together (PEFY-P80 · 140VMH-E-F type).

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)

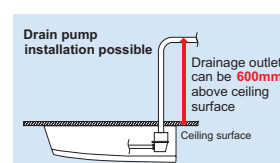
m (ft)

Greatly simplified installation

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

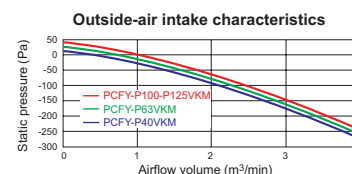
Drain pump option available with all models

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



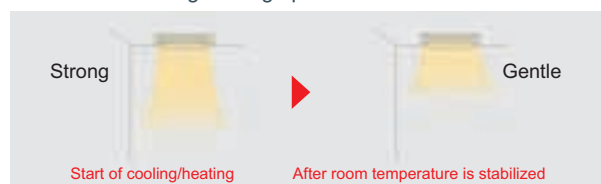
Outside-air intake

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 an 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.



► Specifications

			PCFY-P40VKM-E	PCFY-P63VKM-E	PCFY-P100VKM-E	PCFY-P125VKM-E
Power source			1-phase 220-240V 50Hz / 1-phase 220V 60Hz			
Cooling capacity	*1	kW	4.5	7.1	11.2	14.0
	*1	BTU/h	15,400	24,200	38,200	47,800
Heating capacity	*1	kW	5.0	8.0	12.5	16.0
	*1	BTU/h	17,100	27,300	42,700	54,600
Power consumption	Cooling	kW	0.04	0.05	0.09	0.11
	Heating	kW	0.04	0.05	0.09	0.11
Current	Cooling	A	0.28	0.33	0.65	0.76
	Heating	A	0.28	0.33	0.65	0.76
External finish(Munsell No.)			6.4Y 8.9/ 0.4			
Dimension H x W x D		mm	230 x 960 x 680	230 x 1,280 x 680	230 x 1,600 x 680	
		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 weight		kg(lbs.)	24(53)	32 (71)	36 (79)	38 (84)
Heat exchanger			Cross fin (Aluminum fin and copper tube)			
Fan	Type x Quantity		Sirocco fan x 2	Sirocco fan x 3	Sirocco fan x 4	
	Airflow rate *2 (Lo-Mid2-Mid1-Hi)	m³/min	10-11-12-13	14-15-16-18	21-24-26-28	21-24-27-31
		L/s	167-183-200-217	233-250-267-300	350-400-433-467	350-400-450-517
		cfm	353-388-424-459	494-530-565-636	742-847-918-989	742-847-953-1,095
	External static pressure		Pa	0		
Motor	Type		DC motor			
	Output	kW	0.090	0.095	0.160	
Air filter			PP Honeycomb (long life)			
Refrigerant pipe diameter	Gas (Flare)	mm(in.)	ø12.7 (ø1/2)	ø15.88 (ø5/8)	ø15.88 (ø5/8) / ø19.05 (ø3/4) (Compatible)	
	Liquid (Flare)	mm(in.)	ø6.35 (ø1/4)	ø9.52 (ø3/8)		
Field drain pipe diameter		mm(in.)	O.D. 26 (1)			
Sound pressure level (Lo-Mid2-Mid1-Hi) *2 *3		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 Airflow 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-E PKFY-P VHM-E PKFY-P VKM-E

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



PKFY-P VBM



PKFY-P VHM



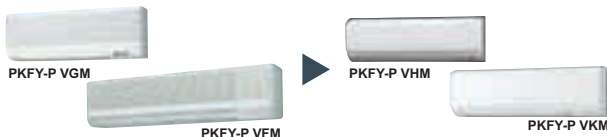
PKFY-P VKM

Capacity range

Capacity	P15	P20	P25	P32	P40	P50	P63	P100
VBM	●	●	●					
VHM				●	●	●		
VKM							●	●

Flat panel & Pure white finish

All models have changed from the grill design, adopting the flat panel layout. Pursuing a design that harmonizes with virtually any interior, the unit color has been changed from white to pure white.



Built-in signal receiver

PKFY-P VBM features

Compact profile

Quiet operation

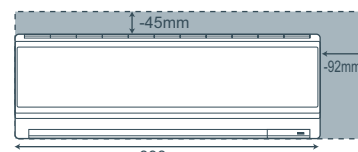
4-way piping provides more flexibility in selecting installation sites

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.

PKFY-P VHM features

Compact size of 898mm

Width size reduced to match small size buildings and offices.



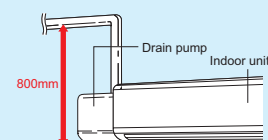
Comparison with PKFY-P VGM-E

Light unit

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.



► Specifications

			PKFY-P15VBM-E	PKFY-P20VBM-E	PKFY-P25VBM-E	PKFY-P32VHM-E	PKFY-P40VHM-E	PKFY-P50VHM-E	
Power source			1-phase 220-240V 50Hz / 1-phase 220V 60Hz						
Cooling capacity		*1	kW	1.7	2.2	2.8	3.6	4.5	5.6
		*1	BTU/h	5,800	7,500	9,600	12,300	15,400	19,100
Heating capacity		*1	kW	1.9	2.5	3.2	4.0	5.0	6.3
		*1	BTU/h	6,500	8,500	10,900	13,600	17,100	21,500
Power consumption	Cooling *4	kW	0.04			0.04			
	Heating	kW	0.04			0.03			
Current	Cooling *4	A	0.20			0.40			
	Heating	A	0.20			0.30			
External finish(Munsell No.)			Plastic (1.0Y 9.2/0.2)			Plastic (1.0Y 9.2/0.2)			
Dimension H x W x D		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 weight		kg(lbs.)	10 (23)			13(29)			
Heat exchanger			Cross fin (Aluminum fin and copper tube)						
Fan	Type x Quantity		Line flow fan x 1						
	Airflow rate *2 (Lo-Mid2-Mid1-Hi)	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	
		L/s	82-83-87-88	82-87-93-98		150-167-183	150-175-192	150-175-200	
		cfm	173-177-184-187	173-184-198-208		318-353-388	318-371-406	318-371-424	
	External static pressure	Pa	0						
Motor	Type		1-phase induction motor			DC motor			
	Output	kW	0.017			0.030			
Air filter			PP Honeycomb						
Refrigerant pipe diameter	Gas (Flare)	mm(in.)	ø12.7 (ø1/2)					ø12.7 (ø1/2) / ø15.88 (ø5/8) (Compatible)	
	Liquid (Flare)	mm(in.)	ø6.35 (ø1/4)					ø6.35 (ø1/4) / ø9.52 (ø3/8) (Compatible)	
Field drain pipe diameter		mm(in.)	I.D.16 (5/8)						
Sound pressure level (Lo-Mid2-Mid1-Hi) *2 *3		dB(A)	29-31-32-33	29-31-34-36		34-37-41	34-38-41	34-39-43	

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 50Hz / 1-phase 220V 60Hz	
Cooling capacity	*1	kW	7.1	11.2
	*1	BTU/h	24,200	38,200
Heating capacity	*1	kW	8.0	12.5
	*1	BTU/h	27,300	42,600
Power consumption	Cooling *4	kW	0.05	0.08
	Heating	kW	0.04	0.07
Current	Cooling *4	A	0.37	0.58
	Heating	A	0.30	0.51
External finish(Munsell No.)			Plastic (1.0Y 9.2/0.2)	
Dimension H x W x D			mm(in.) 365 x 1,170 x 295 (14-3/8 x 46-1/16 x 11-5/8)	
Net weight			kg(lbs.) 21 (46)	
Heat exchanger			Cross fin (Aluminum fin and copper tube)	
Fan	Type x Quantity		Line flow fan x 1	
	Airflow rate *2 (Lo-Hi)	m³/min	16-20	20-26
		L/s	267-333	333-433
		cfm	565-706	706-918
	External static pressure	Pa	0	
Motor	Type		DC motor	
	Output	kW	0.056	
Air filter			PP Honeycomb	
Refrigerant pipe diameter	Gas (Flare)	mm(in.)	ø15.88 (ø5/8)	ø15.88 (ø5/8) / ø19.05 (ø3/4) (Compatible)
	Liquid (Flare)	mm(in.)	ø9.52 (ø3/8)	
Field drain pipe diameter			mm(in.) I.D. 16(5/8)	
Sound pressure level (Lo-Hi) *2 *3			dB(A) 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

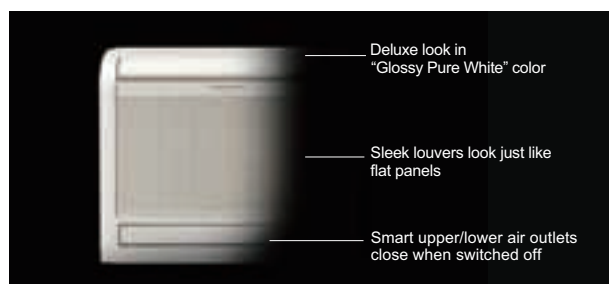
PFFY-P VKM-E2



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

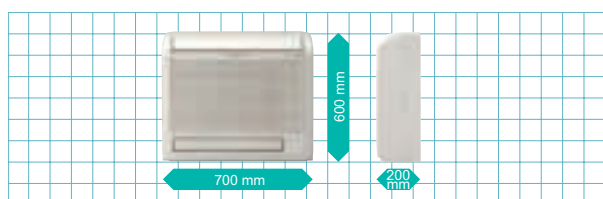


Sophisticated Design



From Mitsubishi Electric, an innovative new floor-standing air-conditioner. Our pleasing 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.

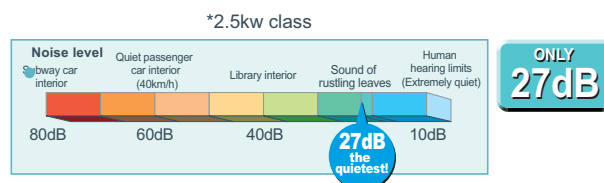
Slim but Mighty



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 a snap. Easy and regular cleaning allows your air-conditioner stay beautiful while keeping its energy-efficient operation always 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 conditioner operation.



Optimum Air Distribution

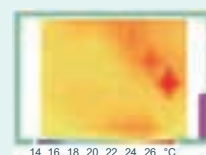
Comfy room temperatures are realized by the optimum, powerful and efficient air distribution through upper and lower air outlets.

The upper vane angle is remote controllably, 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!



► Specifications

			PFFY-P20VKM-E2	PFFY-P25VKM-E2	PFFY-P32VKM-E2	PFFY-P40VKM-E2
Power source			1-phase 220-240V 50Hz			
Cooling capacity	*1	kW	2.2	2.8	3.6	4.5
	*1	BTU/h	7,500	9,600	12,300	15,400
Heating capacity	*1	kW	2.5	3.2	4.0	5.0
	*1	BTU/h	8,500	10,900	13,600	17,100
Power consumption	Cooling	kW	0.025	0.025	0.025	0.028
	Heating	kW	0.025	0.025	0.025	0.028
Current	Cooling	A	0.20	0.20	0.20	0.24
	Heating	A	0.20	0.20	0.20	0.24
External finish			Plastic (Pure white)			
Dimension		mm	600 x 700 x 200			
H x W x D		in.	23-5/8 x 27-9/16 x 7-7/8			
Net weight		kg(lbs.)	15 (34)			
Heat exchanger			Cross fin (Aluminium plate fin and copper tube)			
Fan	Type x Quantity		Line flow fan x 2			
	Airflow rate (Lo-Mid-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
	External static pressure	Pa	0			
Motor	Type		DC motor			
	Output		0.03 x 2			
Air filter			PP honeycomb fabric (Catechin Filter)			
Refrigerant	Gas(Flare)	mm(in.)	ø12.7 (ø1/2)			
pipe diameter	Liquid(Flare)	mm(in.)	ø6.35 (ø1/4)			
Field drain pipe diameter			I.D.16 (5/8)			
Sound pressure level (Lo-Mid-Hi-SHi)	*2	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.



Standardized design with mild lines.

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 220 mm (8-11/16in.) in depth can be easily installed in the perimeter zone 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.

► Specifications

			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						
Cooling capacity	*1	kW	2.2	2.8	3.6	4.5	5.6	7.1	
	*1	BTU/h	7,500	9,600	12,300	15,400	19,100	24,200	
Heating capacity	*1	kW	2.5	3.2	4.0	5.0	6.3	8.0	
	*1	BTU/h	8,500	10,900	13,600	17,100	21,500	27,300	
Power consumption	Cooling	kW	0.04 / 0.06		0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11	
	Heating	kW	0.04 / 0.06		0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11	
Current	Cooling	A	0.19 / 0.25		0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47	
	Heating	A	0.19 / 0.25		0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47	
External finish(Munsell No.)			Acrylic paint (5Y 8/1)						
Dimension H x W x D		mm	630 x 1,050 x 220			630 x 1,170 x 220			
		in.	24-13/16 x 41-3/8 x 8-11/16			24-13/16 x 46-1/8 x 8-11/16			
Net weight		kg(lbs.)	23 (51)			25 (56)	26 (58)	30 (67)	
			32 (71)						
Heat exchanger			Cross fin (Aluminum plate fin and copper tube)						
Fan	Type x Quantity		Sirocco fan x 1			Sirocco fan x 2			
	Airflow rate (Lo-Hi)	m³/min	5.5-6.5			7.0-9.0	9.0-11.0	12.0-14.0	12.0-15.5
		L/s	92-108			117-150	150-183	200-233	200-258
		cfm	194-230			247-318	318-388	424-494	424-547
External static pressure		Pa	0						
Motor	Type		1-phase induction motor						
	Output		kW	0.015	0.018	0.030	0.035	0.050	
Air filter			PP Honeycomb fabric (washable)						
Refrigerant pipe diameter	Gas (Flare)	mm(in.)	ø12.7 (ø1/2)						
	Liquid (Flare)	mm(in.)	ø6.35 (ø1/4)						
Field drain pipe diameter		mm(in.)	I.D.26 (1) <Accessory hose O.D.27 (1-3/32) (top end: 20 (13/16))>						
Sound pressure level (Lo-Hi)		*2 *3 *4	dB(A)		34-40	35-40	38-43	40-46	

Notes:

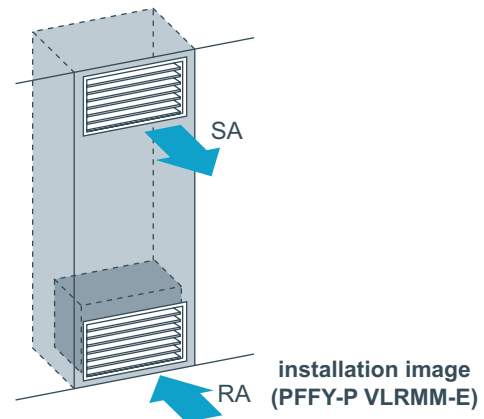
- *1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.
Cooling Indoor: 27°C(81°F)DB/19°C(66°F)WB, Outdoor 35°C(95°F)DB.
Heating Indoor: 20°C(68°F)DB, Outdoor 7°C(45°F)DB/6°C(43°F)WB.
- *2 Air flow rate/Sound pressure level are in (Low-High).
- *3 Measured 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.



Compact unit for easy air conditioning in perimeter zone

The body is concealed in the pericover to pursue 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.

► Specifications

			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 capacity	*1	kW	2.2	2.8	3.6	4.5	5.6	7.1	
	*1	BTU/h	7,500	9,600	12,300	15,400	19,100	24,200	
Heating capacity	*1	kW	2.5	3.2	4.0	5.0	6.3	8.0	
	*1	BTU/h	8,500	10,900	13,600	17,100	21,500	27,300	
Power consumption	Cooling	kW	0.04 / 0.06		0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11	
	Heating	kW	0.04 / 0.06		0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11	
Current	Cooling	A	0.19 / 0.25		0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47	
	Heating	A	0.19 / 0.25		0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47	
External finish(Munsell No.)			Galvanized steel plate						
Dimension H x W x D	mm		639 x 886 x 220			639 x 1,006 x 220		639 x 1,246 x 220	
	in.		25-3/16 x 34-15/16 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 weight		kg(lbs.)	18.5 (41)			20 (45)	21 (47)	25 (56) 27 (60)	
Heat exchanger			Cross fin (Aluminum plate fin and copper tube)						
Fan	Type x Quaaty		Sirocco fan x 1			Sirocco fan x 2			
	Airflow rate (Lo-Hi)	*2	m³/min	5.5-6.5	7.0-9.0	9.0-11.0	12.0-14.0	12.0-15.5	
			L/s	92-108	117-150	150-183	200-233	200-258	
			cfm	194-230	247-318	318-388	424-494	424-547	
	External static pressure		Pa	0					
Motor	Type		1-phase induction motor						
	Output	kW	0.015		0.018	0.030	0.035	0.050	
Air filter			PP Honeycomb fabric (washable)						
Refrigerant pipe diameter	Gas (Flare)	mm(in.)	ø12.7 (ø1/2)						ø15.88 (ø5/8)
	Liquid (Flare)	mm(in.)	ø6.35 (ø1/4)						ø9.52 (ø3/8)
Field drain pipe diameter		mm(in.)	I.D.26 (1) <Accessory hose O.D.27 (1-3/32) (top end :20 (13/16))>						
Sound pressure level (Lo-Hi) *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(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.

			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						
Cooling capacity	*1	kW	2.2	2.8	3.6	4.5	5.6	7.1	
	*1	BTU/h	7,500	9,600	12,300	15,400	19,100	24,200	
Heating capacity	*1	kW	2.5	3.2	4.0	5.0	6.3	8.0	
	*1	BTU/h	8,500	10,900	13,600	17,100	21,500	27,300	
Power consumption	Cooling	kW	0.04		0.04	0.05	0.05	0.07	
	Heating	kW	0.04		0.04	0.05	0.05	0.07	
Current	Cooling	A	0.34		0.38	0.43	0.48	0.59	
	Heating	A	0.34		0.38	0.43	0.48	0.59	
External finish(Munsell No.)			Galvanized steel plate						
Dimension H x W x D	mm		639 x 886 x 220		639 x 1,006 x 220		639 x 1,246 x 220		
	in.		25-3/16 x 34-15/16 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 weight		kg(lbs.)	18.5 (41)		20 (45)	21 (47)	25 (56)	27 (60)	
Heat exchanger			Cross fin (Aluminum plate fin and copper tube)						
Fan	Type x Quauity		Sirocco fan x 1		Sirocco fan x 2				
	Airflow rate (Lo-Mid-Hi)	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	
		L/s	75-92-108		108-125-150	133-158-183	167-200-233	183-217-258	
		cfm	159-194-230		230-265-318	282-335-388	353-424-494	388-459-547	
	External static pressure *2		Pa		20/40/60				
Motor	Type		DC motor						
	Output		kW		0.096				
Air filter			PP Honeycomb fabric (washable)						
Refrigerant	Gas	mm(in.)	ø12.7 (ø1/2) Brazed						ø15.88 (ø5/8) Brazed
pipe diameter	Liquid	mm(in.)	ø6.35 (ø1/4) Brazed						ø9.52 (ø3/8) Brazed
Field drain pipe diameter			I.D.26 (1) <Accessory hose O.D.27 (1-3/32) (top end :20 (13/16))>						
Sound pressure	20Pa	dB(A)	31-36-40		27-32-37	30-36-40	32-37-41	35-40-44	
level (Lo-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	35-39-44	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.

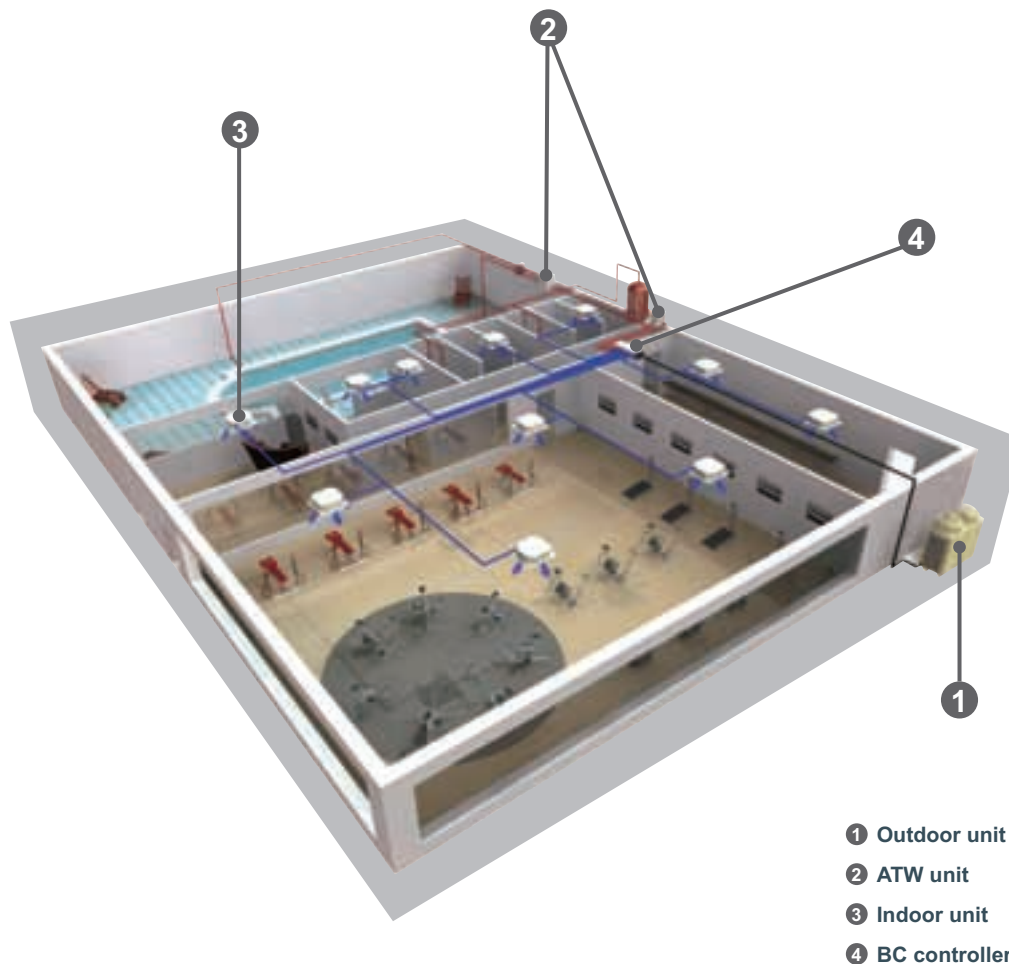


PWFY-P100VM-E-BU PWFY-P100VM-E1-AU PWFY-P200VM-E1-AU

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 benefiting from reduced running costs and less impact on 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

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

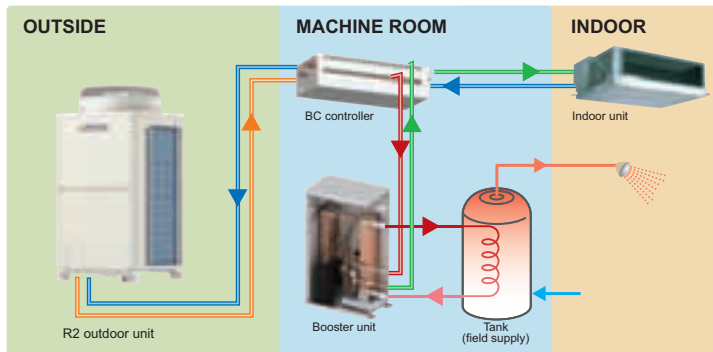
Applications

best for sanitary
water, shower, etc.

Operation

up to 70°C

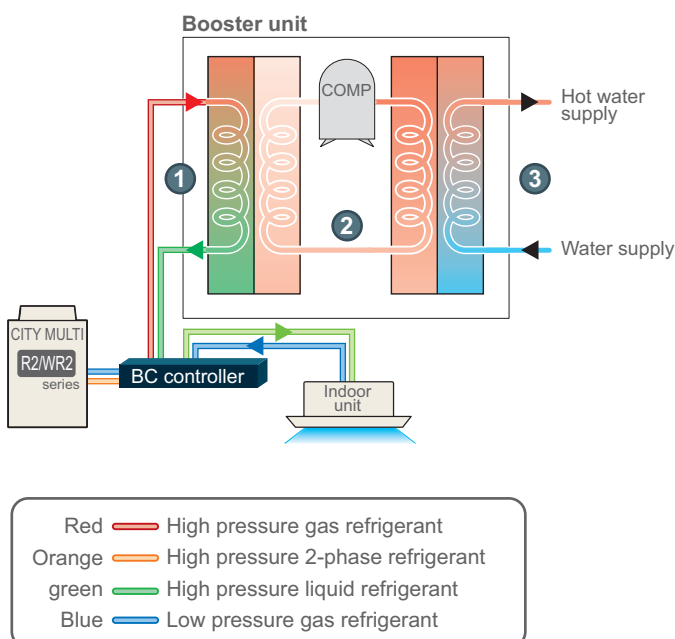
SYSTEM OUTLINE



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 utilized for heating operation which provides hot water.

Red — High pressure gas refrigerant
Orange — High pressure 2-phase refrigerant
green — High pressure liquid refrigerant
Blue — Low pressure gas refrigerant

What makes Booster unit unique?



Red — High pressure gas refrigerant
Orange — High pressure 2-phase refrigerant
green — High pressure liquid refrigerant
Blue — Low pressure gas refrigerant

Refrigerant flow

① 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

③ 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 utilizing waste heat from the R2 outdoor unit for heating operation in HEX unit, it is possible to supply hot water with high efficiency. Also, even when connected with the Y series, it provides efficient operation compared to a conventional system.



PWFY-P100VM-E1-AU
PWFY-P200VM-E1-AU

Connectable to

CITY MULTI
R2/WR2/
Y/WY/ZUBADAN series
S series
REPLACE MULTI
R2/Y series

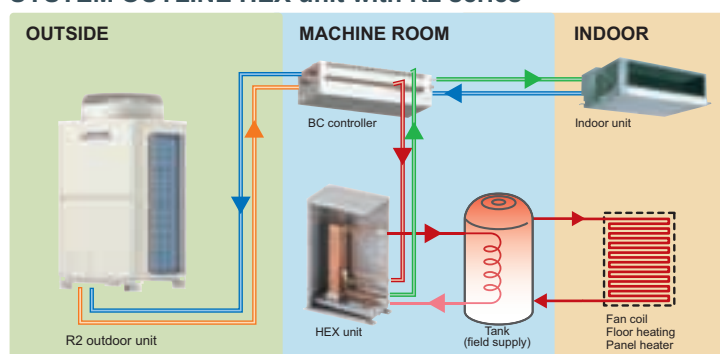
Applications

best for floor
heating, panel
heater, fan-coil
unit(AHU), etc.

Operation

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

SYSTEM OUTLINE HEX unit with R2 series



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.

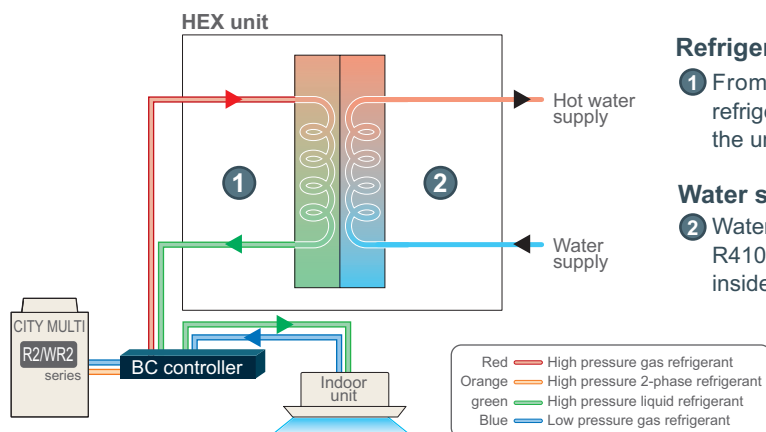
Red — High pressure gas refrigerant
Orange — High pressure 2-phase refrigerant
green — High pressure liquid refrigerant
Blue — Low pressure gas refrigerant

*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?

Hot water supply



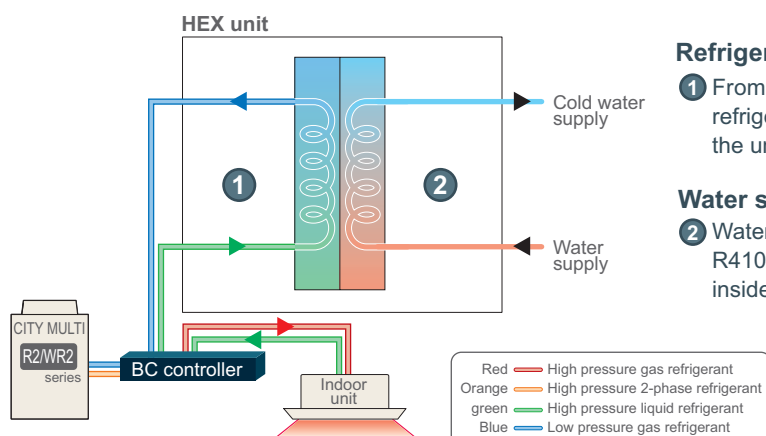
Refrigerant flow

- 1 From the BC controller, high pressure R410A gas refrigerant is delivered to the HEX unit and returns to the unit as high pressure liquid refrigerant.

Water supply

- 2 Water entering the HEX unit exchanges heat with the R410A refrigerant and water circulates to heat the water inside the tank.

Cold water supply



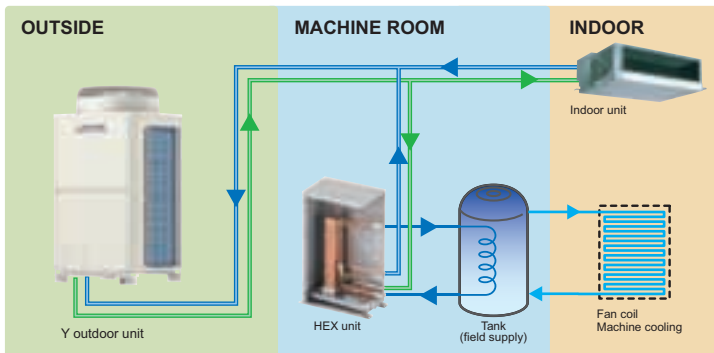
Refrigerant flow

- 1 From the BC controller, high pressure R410A liquid refrigerant is delivered to the HEX unit and returns to the unit as low pressure gas refrigerant.

Water supply

- 2 Water entering the HEX unit exchanges heat with the R410A refrigerant and water circulates to cool the water inside the tank.

SYSTEM OUTLINE HEX unit with Y series

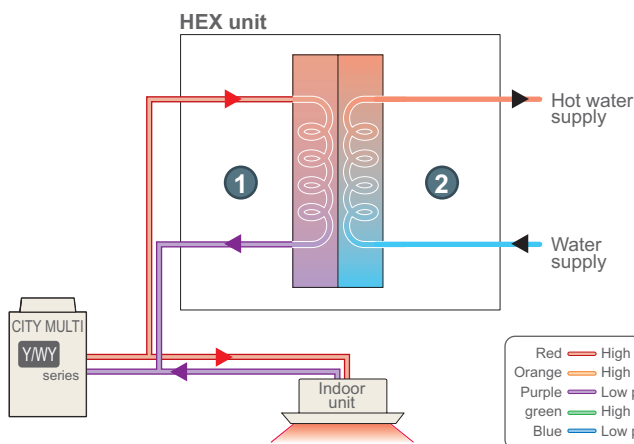


HEX unit is connected to Y outdoor unit with refrigerant pipes, and to the water tank with water pipes. HEX unit is not equipped with a compressor.

Red — High pressure gas refrigerant
 Orange — High pressure 2-phase refrigerant
 green — High pressure liquid refrigerant
 Blue — Low pressure gas refrigerant

What makes HEX unit unique with Y/WY series?

Hot water supply



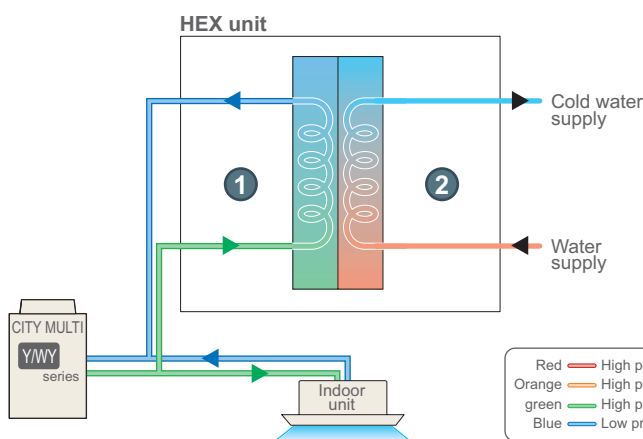
Refrigerant flow

- 1 From the outdoor unit, high pressure R410A gas refrigerant is delivered to the HEX unit and returns to the unit as low pressure 2-phase refrigerant.

Water supply

- 2 Water entering the HEX unit exchanges heat with the R410A refrigerant and water circulates to heat the water inside the tank.

Cold water supply



Refrigerant flow

- 1 From the outdoor unit, high pressure R410A liquid refrigerant is delivered to the HEX unit and returns to the unit as low pressure gas refrigerant.

Water supply

- 2 Water entering the HEX unit exchanges heat with the R410A refrigerant and water circulates to cool the water inside the tank.

ATW UNIT

Booster Unit

PWFY-P VM-E-BU



► Specifications

Model			PWFY-P100VM-E-BU
Power source			1-phase 220-230-240V 50 / 60Hz
Heating capacity (Nominal)	*1	kW	12.5
	*1	kcal/h	10,800
	*1	BTU/h	42,700
	Power input	kW	2.48
	Current input	A	11.63-11.12-10.66
Temp. range of heating	Outdoor unit/Heat source unit condition	W.B.	-20~32°C (-4~90°F) R2-series
		-	10~45°C (50~113°F) WR2-series
	Booster unit inlet water temp.	-	10~70°C (50~158°F)
Connectable outdoor unit/heat source unit	Total capacity		50~100% of outdoor unit/heat source unit capacity
	Model / Quantity		R2 (Standard, Hi-COP), Replace R2, WR2 series only
Sound pressure level (measured in anechoic room)			dB<A> 44
Diameter of refrigerant pipe	Liquid	mm(in.)	ø9.52 (ø3/8") Brazed
	Gas	mm(in.)	ø15.88 (ø5/8") Brazed
Diameter of water pipe	Inlet	mm(in.)	PT3/4 Screw
	Outlet	mm(in.)	PT3/4 Screw
Field drain pipe size		mm(in.)	ø32 (1-1/4")
External finish			NO
External dimension H × W × D		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)
Compressor	Type		Inverter rotary hermetic compressor
	Maker		MITSUBISHI ELECTRIC CORPORATION
	Starting method		Inverter
	Motor output	kW	1.0
	Lubricant		NEO22
Circulating water	Operation volume Range	m³/h	0.6~2.15
Protection on internal circuit (R134a)	High pressure protection		High pressure sensor, High pressure switch at 3.60 MPa (601 psi)
	Inverter circuit (COMP)		Over - heat protection, Over - current protection
	Compressor		Discharge thermo protection, Over - current protection
Refrigerant	Type × original charge	*2	R134a × 1.1kg (0.50lb)
	Control		LEV
Design pressure	R410A	MPa	4.15
	R134a	MPa	3.60
	Water	MPa	1.00
Drawing	External		WKB94L762
	Wiring		WKE94C229
Standard attachment	Document		Installation Manual, Instruction Book
	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

<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 65°C Water flow rate 2.15 m³/h

<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 2.15 m³/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 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.

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
Heating capacity (Nominal)	*1	kW	12.5	25.0
	*1	kcal/h	10,800	21,500
	*1	BTU/h	42,700	85,300
	Power input	kW	0.015	0.015
	Current input	A	0.068-0.065-0.063	0.068-0.065-0.063
Temp. range of heating	Outdoor unit/ Heat source unit condition	W.B.	-15~15°C (5~60°F) S - series	-
		W.B.	-20~15.5°C (-4~60°F) Y - series	-20~15.5°C (-4~60°F) Y - series
		W.B.	-25~15.5°C (-13~60°F) HP(ZUBADAN) - series	-25~15.5°C (-13~60°F) HP(ZUBADAN) - series
		W.B.	-20~32°C (-4~90°F) R2 - series	-20~32°C (-4~90°F) R2 - series
		-	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.	-	10~45°C (50~113°F) S - series, 10~40°C (50~104°F) Y, HP(ZUBADAN), R2, WY, WR2 - series	10~40°C (50~104°F)
Cooling capacity (Nominal)	*2	kW	11.2	22.4
	*2	kcal/h	9,600	19,300
	*2	BTU/h	38,200	76,400
	Power input	kW	0.015	0.015
	Current input	A	0.068-0.065-0.063	0.068-0.065-0.063
Temp. range of cooling	Outdoor unit/ Heat source unit condition	D.B.	-5~46°C (23~115°F) Y - series	-5~46°C (23~115°F) Y - series
		D.B.	-5~43°C (23~110°F) HP(ZUBADAN) - series	-5~43°C (23~110°F) HP(ZUBADAN) - series
		D.B.	-5~46°C (23~115°F) R2 - series	-5~46°C (23~115°F) R2 - series
		-	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)
Connectable outdoor unit/heat source unit	Total capacity		50~100% of outdoor unit/heat source unit capacity	50~100% of outdoor unit/heat source unit capacity
	Model / Quantity		Y (Standard, Hi-COP), Replace Y, S, HP(ZUBADAN) series, R2 (Standard, Hi-COP), Replace R2, WY series, WR2 series	Y (Standard, Hi-COP), Replace Y, HP(ZUBADAN) series, R2 (Standard, Hi-COP), Replace R2, WY series, WR2 series
Sound pressure level (measured in anechoic room)		dB<A>	29	29
Diameter of refrigerant pipe	Liquid	mm(in.)	ø9.52 (ø3/8") Brazed	ø9.52 (ø3/8") Brazed
	Gas	mm(in.)	ø15.88 (ø5/8") Brazed	ø19.05 (ø3/4") Brazed
Diameter of water pipe	Inlet	mm(in.)	PT3/4 Screw	PT 1 Screw
	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) × 17-3/4" × 11-13/16"	31-1/2" (30-15/16" without legs) × 17-3/4" × 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
Drawing	External		KD94R274	KD94R274
	Wiring		WKE94C626	WKE94C626
Standard attachment	Document		Installation Manual, Instruction Book	Installation Manual, Instruction Book
	Accessory		Strainer, Heat insulation material, 2 × Connector sets, Flow switch × 1 set, wire	Strainer, Connector, Heat insulation material, 2 × Connector sets, Expansion joint, Flow switch × 1 set, wire
Optional parts			Solenoid valve kit: PAC-SV01PW-E	Solenoid valve kit: PAC-SV01PW-E
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
<S/Y/HP(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 2.15 m³/h(P100), 4.30 m³/h(P200)

<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 2.15 m³/h(P100), 4.30 m³/h(P200)

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

Controller

Remote Controller

PAR-W21MAA



► Specifications

○ : Each group × : Not available

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

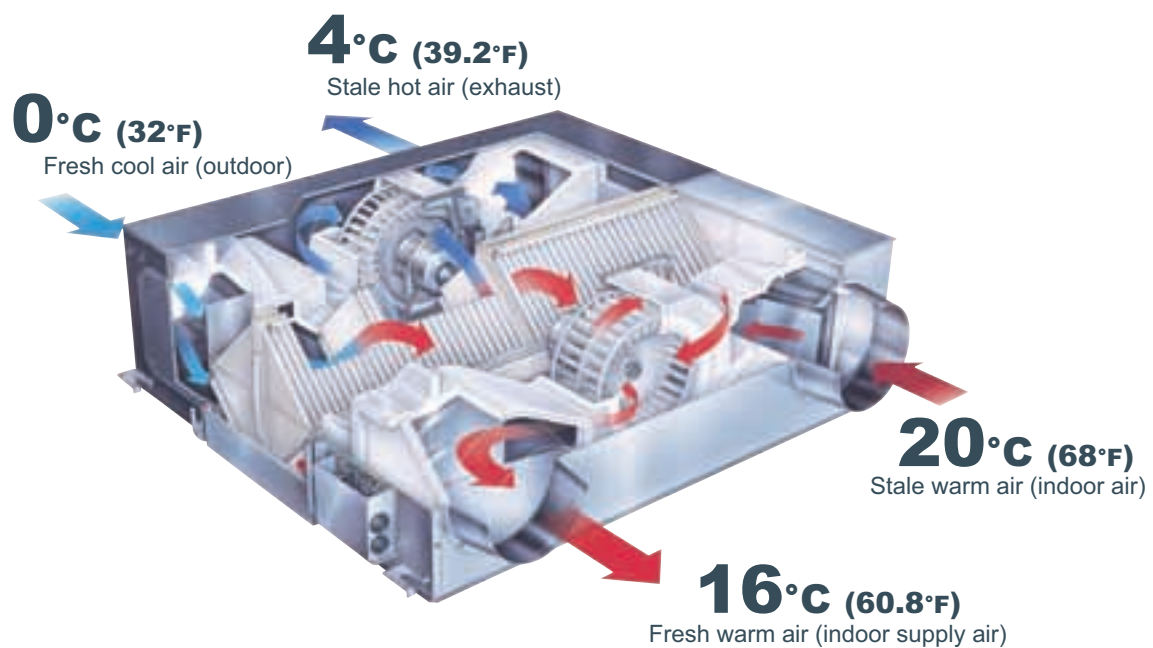
PAC-SV01PW-E

Item	Description
Power source	1-phase 220-230-240V 50 / 60Hz
Diameter of refrigerant pipe	Applicable models
	PWFY-P100VM-E1-AU
	PWFY-P200VM-E1-AU
Liquid	mm (in.)
	ø15.88
Gas	mm (in.)
	ø9.52
External dimension H × W × D	mm
	462 × 320 × 207
Net weight	in.
	18-1/4" × 12-5/8" × 8-3/16"
Drawing	kg (lbs)
	8.5 (19)
Standard attachment	External
	WKD94T532
Accessory	Document
	Installation Manual
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 [650m³/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 off 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

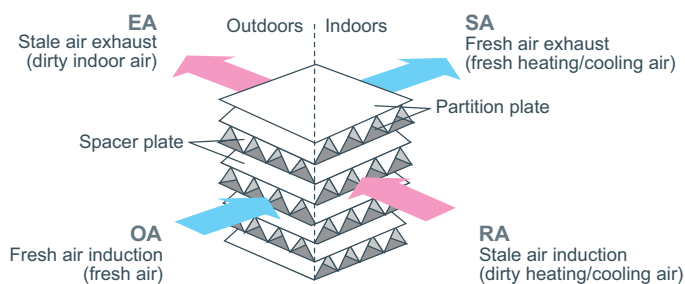
- **Two paths ventilation**

LOSSNAY simultaneously intakes Fresh Air and exhausts Dirty Air.

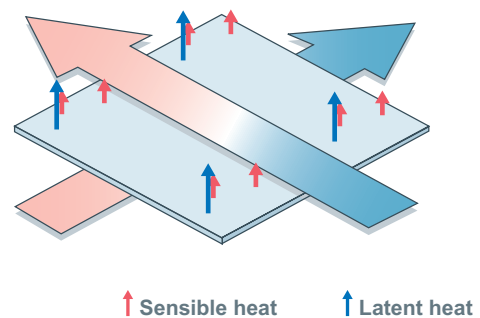
- **Total energy recover**

LOSSNAY returns BOTH sensible heat and latent heat.

A. Two paths ventilation

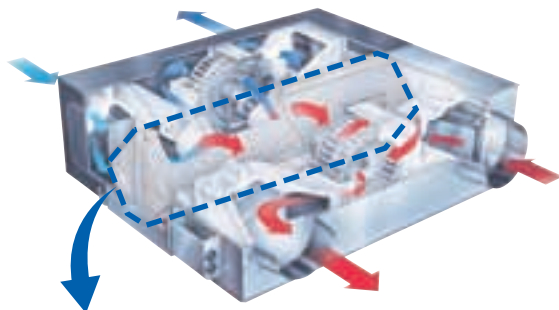


B. Total Energy transfer



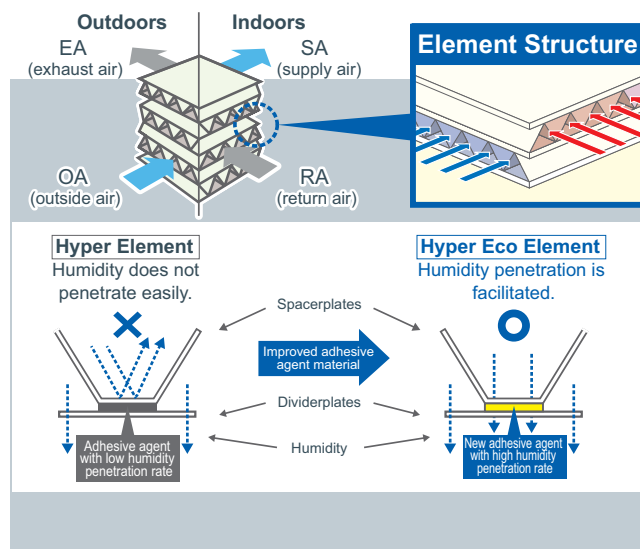
- **Hyper Eco Core**

Better energy conservation by improved total heat exchange efficiency.



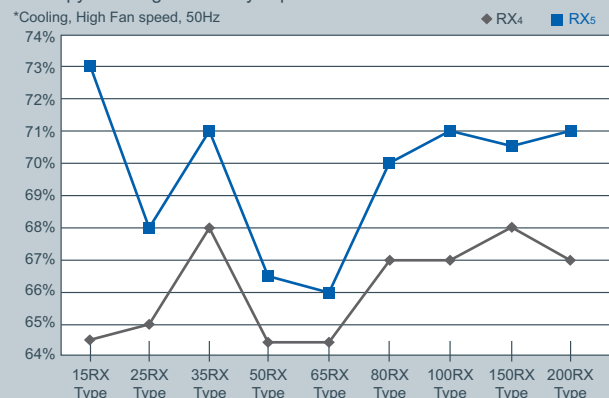
Introducing the new Hyper Eco Element

Mitsubishi's newly developed Hyper Eco Element is on board, offering the industry's best total heat exchange efficiency. Energy conservation performance has been improved not only by reducing the air conditioning load associated with ventilation, but also by facilitating humidity penetration.



Enthalpy exchange efficiency improve

*Cooling, High Fan speed, 50Hz



Why LOSSNAY is necessary

- **Without ventilation...**

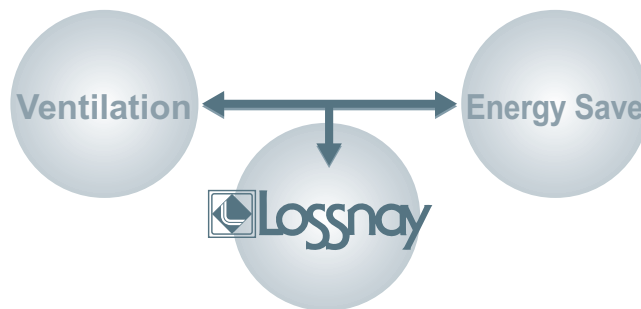
Lack of Ventilation makes people sick by dirty indoor air including CO₂, Dust, Bacteria.

- **If just opening windows...**

Opening windows eliminates dirty air BUT wastes much air-con energy.

- **So we recommend LOSSNAY**

LOSSNAY is simultaneous pursuit of Ventilation and Energy Saving.



- **This is LOSSNAY!**

ADVANTAGES

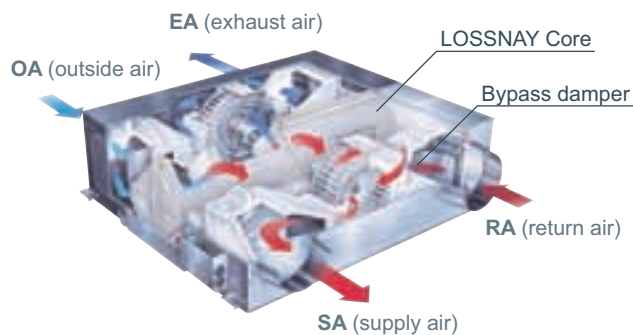
Clean air supply, dirty air exhaust by Two air paths (OA → SA and RA → EA)

Energy recovery by LOSSNAY Core

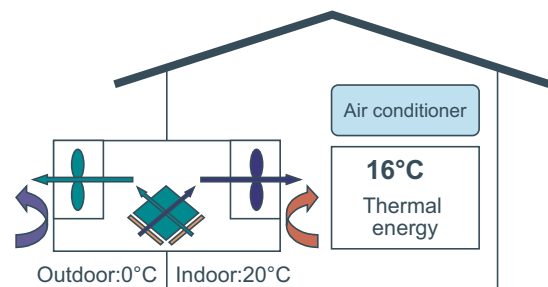
Free cooling by bypass damper

MULTI VENTILATION MODE for multi ventilation request (Power supply, Power supply/exhaust, Power exhaust)

UNIT STRUCTURE



Energy Recovery Image



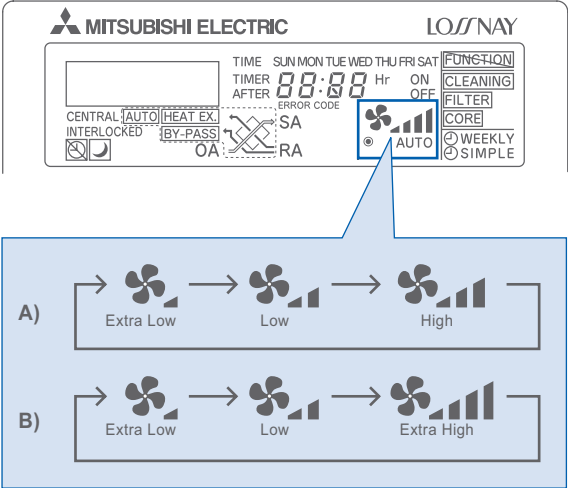
How much recovery?

OA temp. : 0°C → SA temp. : 16°C (Indoor 20°C)

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-150RXs and 200RXs.
- * 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. Besides, once the weekly timer has been set, no switching on-off is required.

Example A (Hourly)

current RX₄ series with PZ-41SLB controller



new RX₅ series with PZ-60DR-E



Total power consumption in one day : LGH-100RX₄-E : 6,600W (14 hours)
LGH-100RX₅-E : 5,390W (14 hours) → **1,210W (18%) less**

Example B (Weekly)



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.

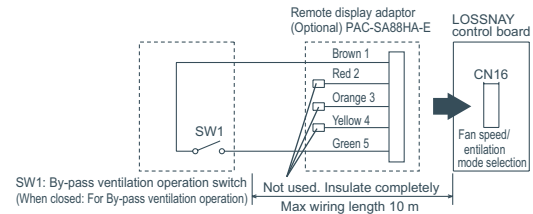
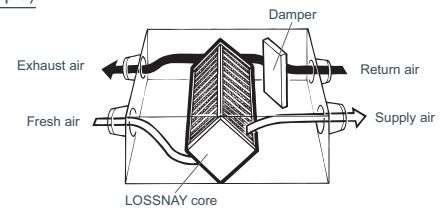
1. Reduces cooling load

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.

Control devices (example)

- Temperature sensor
- Humidity sensor
- Timers

“By-pass” operation



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 temperature 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.

New Remote Controller PZ-60DR-E

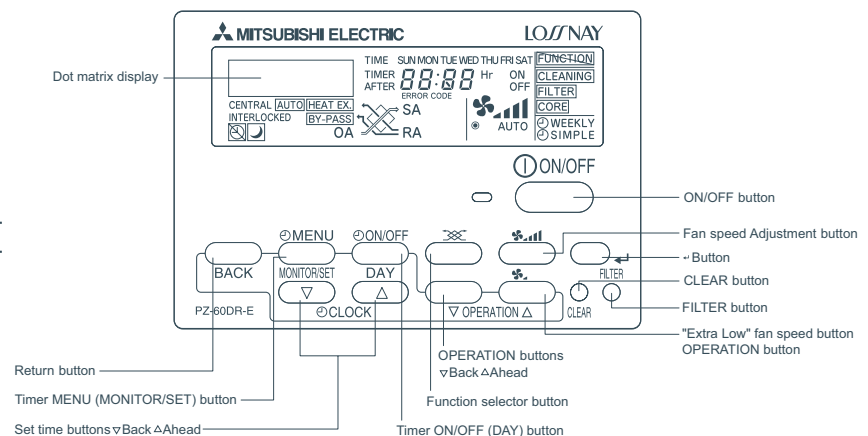
A new remote controller for the RX5 series is now available. In addition to boosting the energy conservation performance of the main unit, the remote controller features a variety of new functions which also pursue additional energy conservation.

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.





LGH-15~100RX5-E

Model line up

■ Specification

LGH-15RX5-E

Model		LGH-15RX5-E							
Frequency / Power source		50Hz / Single phase 220-240V							
Ventilation mode		LOSSNAY ventilation				By-pass ventilation			
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
External static pressure	(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
	(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	—	—	—	—
	Cooling	73.0	73.0	76.5	81.0	—	—	—	—
Noise (dB) (Measured at 1.5m under the center of panel in an anechoic chamber)		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 phase 220-240V							
Ventilation mode		LOSSNAY ventilation				By-pass ventilation			
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
	(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	—	—	—	—
	Cooling	68.0	68.0	72.5	76.0	—	—	—	—
Noise (dB) (Measured at 1.5m under the center of panel in an anechoic chamber)		26-27	25-26	20-21.5	18-19	26.5-27.5	25.5-26.5	20.5-22	18-19
Weight (kg)		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 ventilation			
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
	(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
	(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	—	—	—	—
	Cooling	71.0	71.0	75.5	81.0	—	—	—	—
Noise (dB) (Measured at 1.5m under the center of panel in an anechoic 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			
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
External static pressure	(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
	(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	—	—	—	—
Enthalpy exchange efficiency (%)	Heating	69.0	69.0	71.0	78.0	—	—	—	—
	Cooling	66.5	66.5	68.0	77.0	—	—	—	—
Noise (dB) (Measured at 1.5m under the center of panel in an anechoic chamber)		33-34	30.5-32	26.5-28	19	34-35	31-32.5	27-29	19
Weight (kg)		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 phase 220-240V							
Ventilation mode		LOSSNAY ventilation				By-pass ventilation			
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
Air volume	(m³/h)	650	650	520	265	650	650	520	265
	(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
	(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	—	—	—	—
	Cooling	66.0	66.0	68.5	77.0	—	—	—	—
Noise (dB) (Measured at 1.5m under the center of panel in an anechoic chamber)		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)		40							
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)

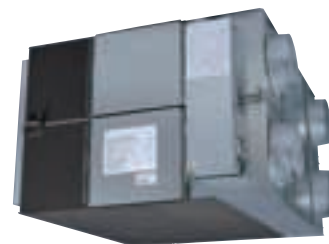
LGH-80RX5-E

Model		LGH-80RX5-E							
Frequency / Power source		50Hz / Single phase 220-240V							
Ventilation mode		LOSSNAY ventilation				By-pass ventilation			
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
Air volume	(m³/h)	800	800	700	355	800	800	700	355
	(L/s)	222	222	194	99	222	222	194	99
External static pressure	(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
	(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	—	—	—	—
	Cooling	70.0	70.0	71.5	79.5	—	—	—	—
Noise (dB) (Measured at 1.5m under the center of panel in an anechoic chamber)		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-100RX5-E							
Frequency / Power source		50Hz / Single phase 220-240V							
Ventilation mode		LOSSNAY ventilation				By-pass ventilation			
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
Air volume	(m³/h)	1000	1000	755	415	1000	1000	755	415
	(L/s)	278	278	210	115	278	278	210	115
External static pressure	(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
	(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	—	—	—	—
	Cooling	71.0	71.0	73.0	79.0	—	—	—	—
Noise (dB) (Measured at 1.5m under the center of panel in an anechoic chamber)		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-150RX5-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
Air volume	(m³/h)	1500	1500	1300	1500	1500	1300
	(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
	(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	—	—	—
	Cooling	70.5	70.5	71.5	—	—	—
Noise (dB) (Measured at 1.5m under the center of panel in an anechoic chamber)		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)

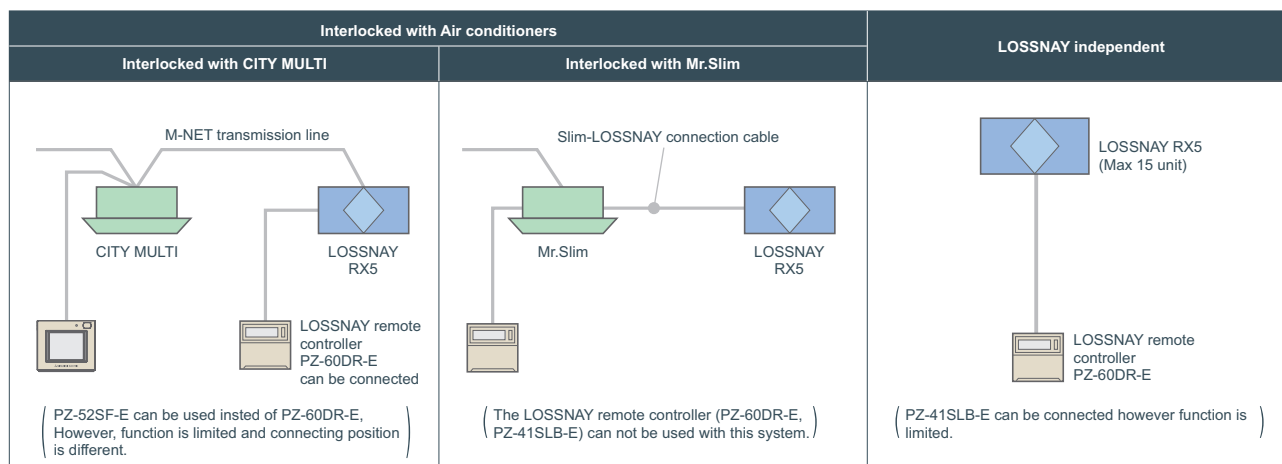
LGH-200RX5-E

Model		LGH-200RX5-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
	(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
	(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	—	—	—
	Cooling	71.0	71.0	72.0	—	—	—
Noise (dB) (Measured at 1.5m under the center of panel in an anechoic chamber)		39.5-40	37-38	32.5-34	40.5-41	38-39	33.5-35
Weight (kg)		118					
Starting current		Under 11.9A Less					

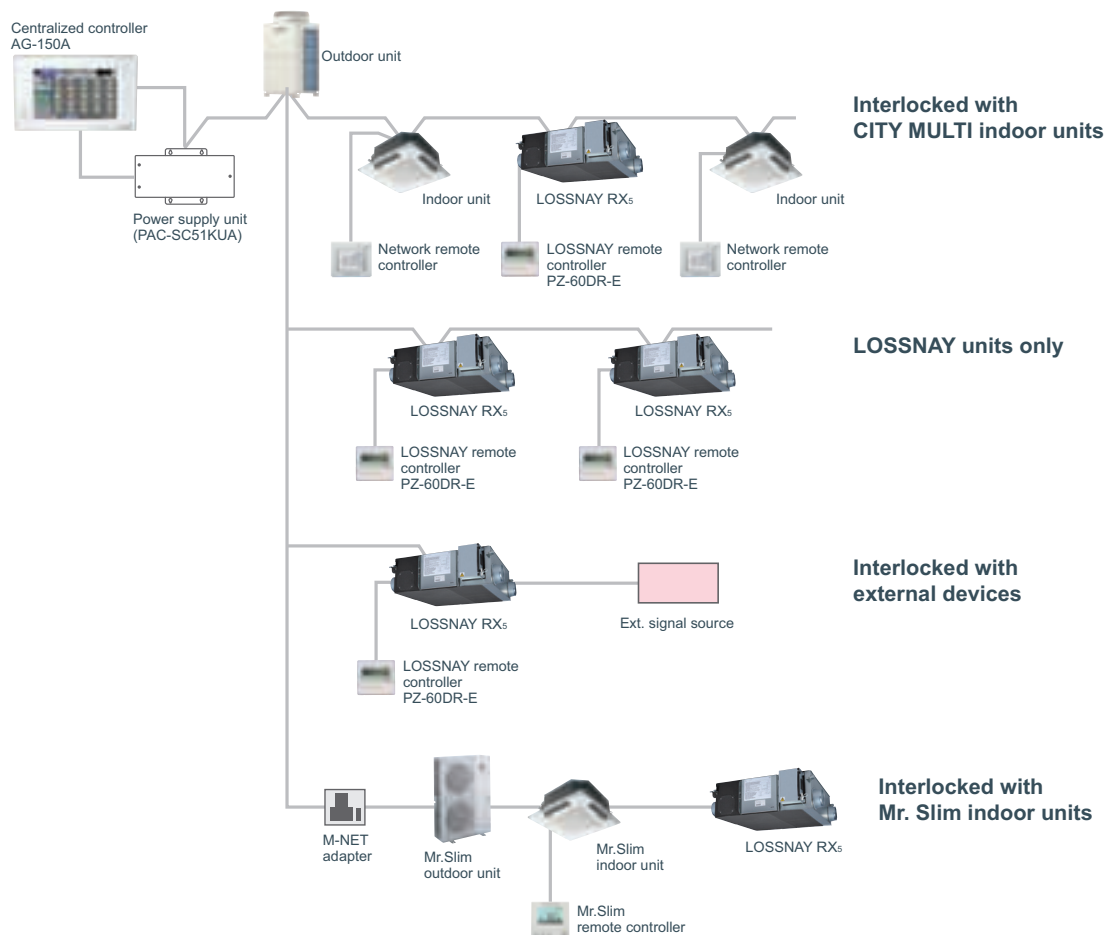
*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 20 dB greater than the indicated value. (at High Fan speed)

Control

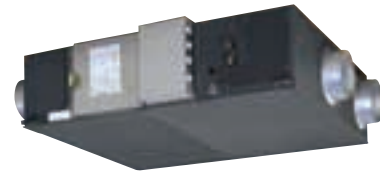
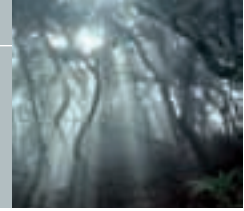
■ The New Remote Controller PZ-60DR-E enable simple control setting



■ Centralized Controller System

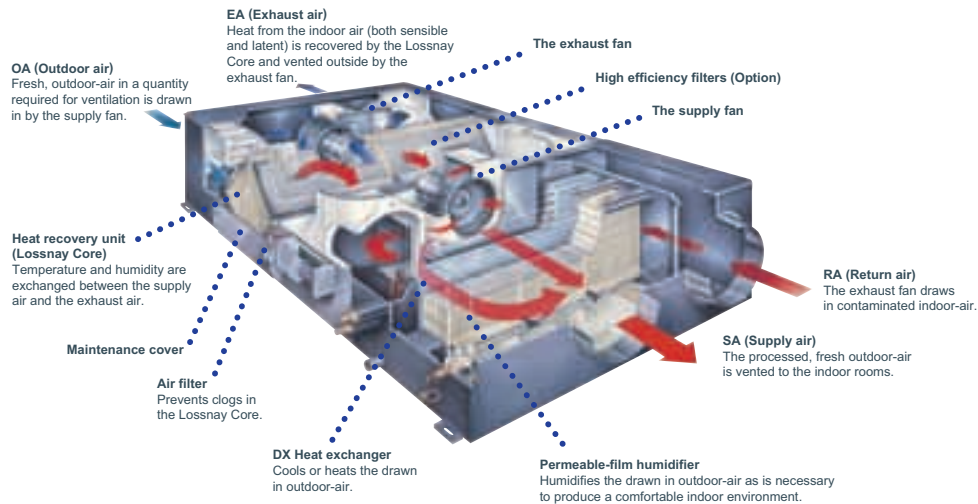


OA Processing Units RDH3 Series



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 providing substantial energy savings. 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 novel 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.



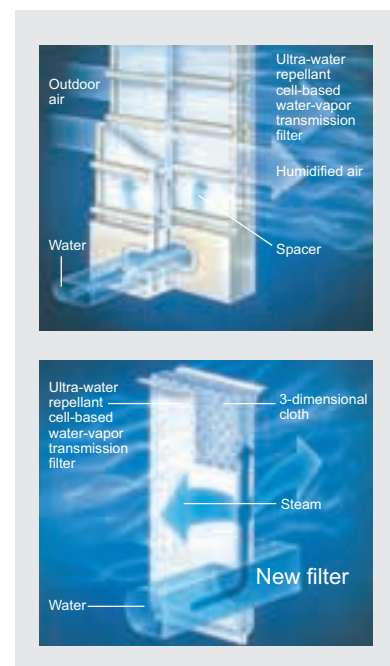
New Permeable Film Humidifier (RDH3 model)

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.



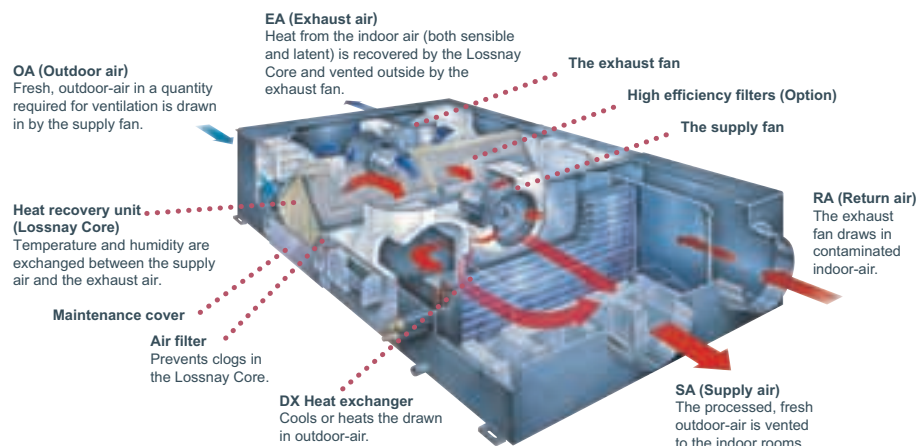
RD3 Series

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 savings. 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.

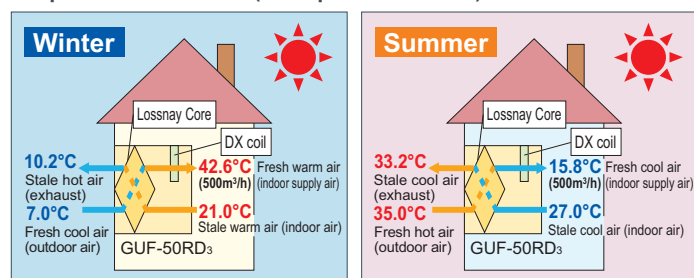


The Air Conditioning Function

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 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.

Temperature simulation (Example: GUF-50RD₃)



Specification

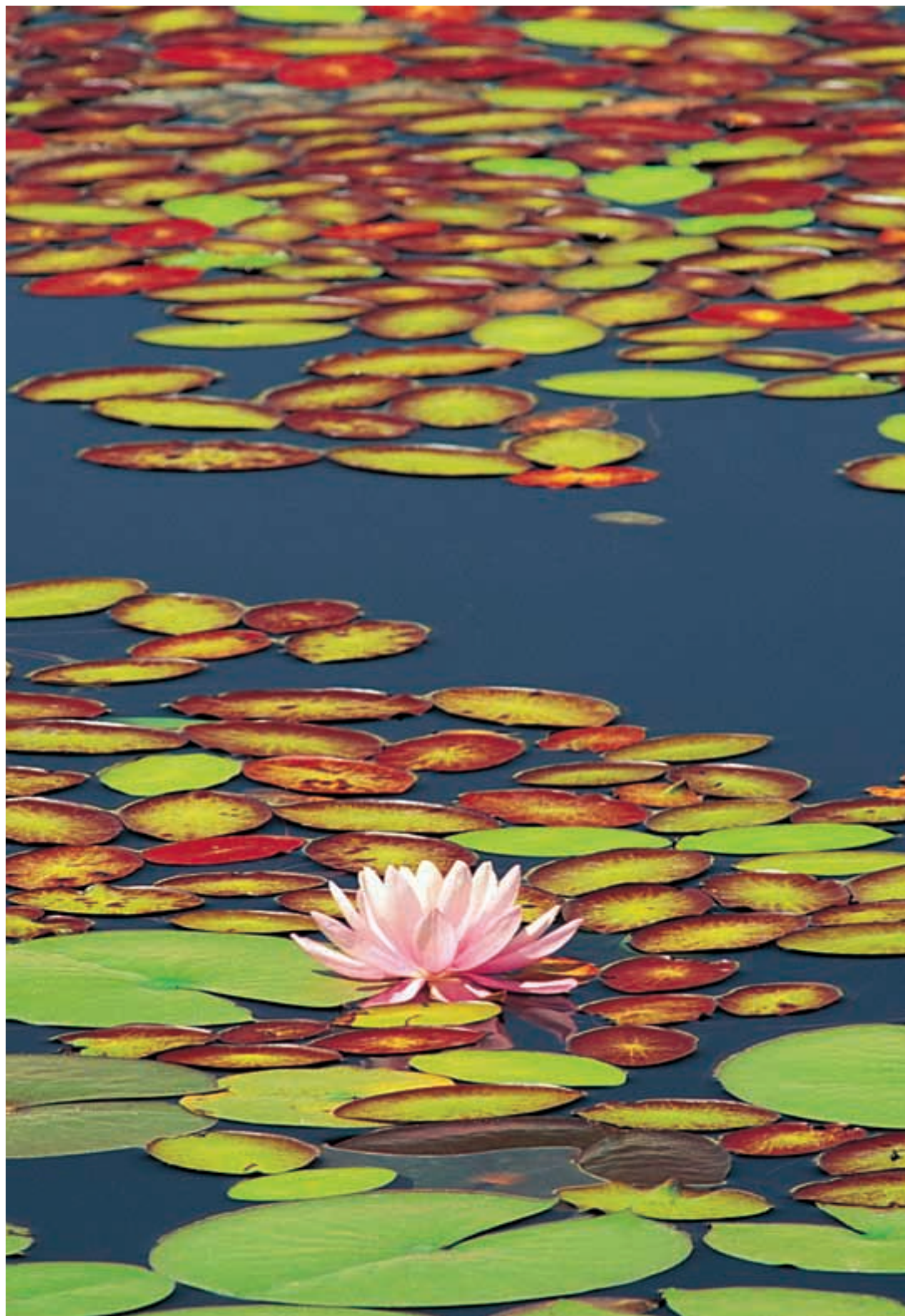
Model			GUF-50RDH3 *3		GUF-100RDH3 *3		GUF-50RD3		GUF-100RD3		
Power source			1-phase 220-240V 50Hz, 1-phase 220V 60Hz								
Cooling capacity	*1	kW	5.46	<1.83>	11.17	<3.85>	5.46	<1.83>	11.17	<3.85>	
Figure in < > is the recovery capacity by LOSSNAY core.	*1	kcal / h	4,700	<1,600>	9,600	<3,300>	4,700	<1,600>	9,600	<3,300>	
	*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 recovery capacity by LOSSNAY core.	*2	kcal / h	5,300	<1,700>	10,800	<3,600>	5,300	<1,700>	10,800	<3,600>	
	*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	A	1.15		2.20		1.15		2.20		
Capacity equivalent to indoor unit			P32		P63		P32		P63		
Humidifying capacity		kg / h	2.7		5.4		-		-		
		lbs / h	6.0		12.0		-		-		
	Humidifier		Permeable film humidifier				-				
External finish			Galvanized, with grey insulation sheet								
External dimension H x W x D		mm	317 x 1,016 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 40 x 50-3/4		15-11/16 x 48-1/2 x 62-1/4		12-1/2 x 40 x 50-3/4		15-11/16 x 48-1/2 x 62-1/4		
Net weight		kg (lbs)	57 (126)		98 (217)		54 (120)		92 (203)		
Heat exchanger	LOSSNAY core		Partition, Cross-flow structure, Special preserved paper-plate.								
	Refrigerant coil		Cross fin (Aluminum fin and copper tube)								
FAN	Type x Quantity		SA: Centrifugal fan (Sirocco fan) x 1								
			EA: Centrifugal fan (Sirocco fan) x 1								
	External static press.	Pa	125		135		140		140		
			mmH ₂ O	12.7		13.8		14.3		14.3	
	Motor type		Totally enclosed capacitor permanent split-phase induction motor, 4 poles, 2units								
	Motor output		kW	-		-		-		-	
	Driving mechanism		Direct-driven by motor								
	Airflow rate (High value)	m ³ / h	500		1,000		500		1,000		
		L / s	139		139		139		139		
cfm		294		589		294		589			
Sound pressure level (Low-High) (measured in anechoic room)		dB <A>	33.5-34.5		38-39		33.5-34.5		38-39		
Insulation material			Polyester 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			Fuse								
Refrigerant control device			LEV								
Diameter of refrigerant pipe	Liquid	mm (in.)	ø6.35 (ø1/4) Flare		ø9.52 (ø3/8) Flare		ø6.35 (ø1/4) Flare		ø9.52 (ø3/8) Flare		
	Gas	mm (in.)	ø12.7 (ø1/2) Flare		ø15.88 (ø5/8) Flare		ø12.7 (ø1/2) Flare		ø15.88 (ø5/8) Flare		
Diameter of drain pipe		mm (in.)	VP25								

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 minimize 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 'off-the-shelf' 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 costs 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.

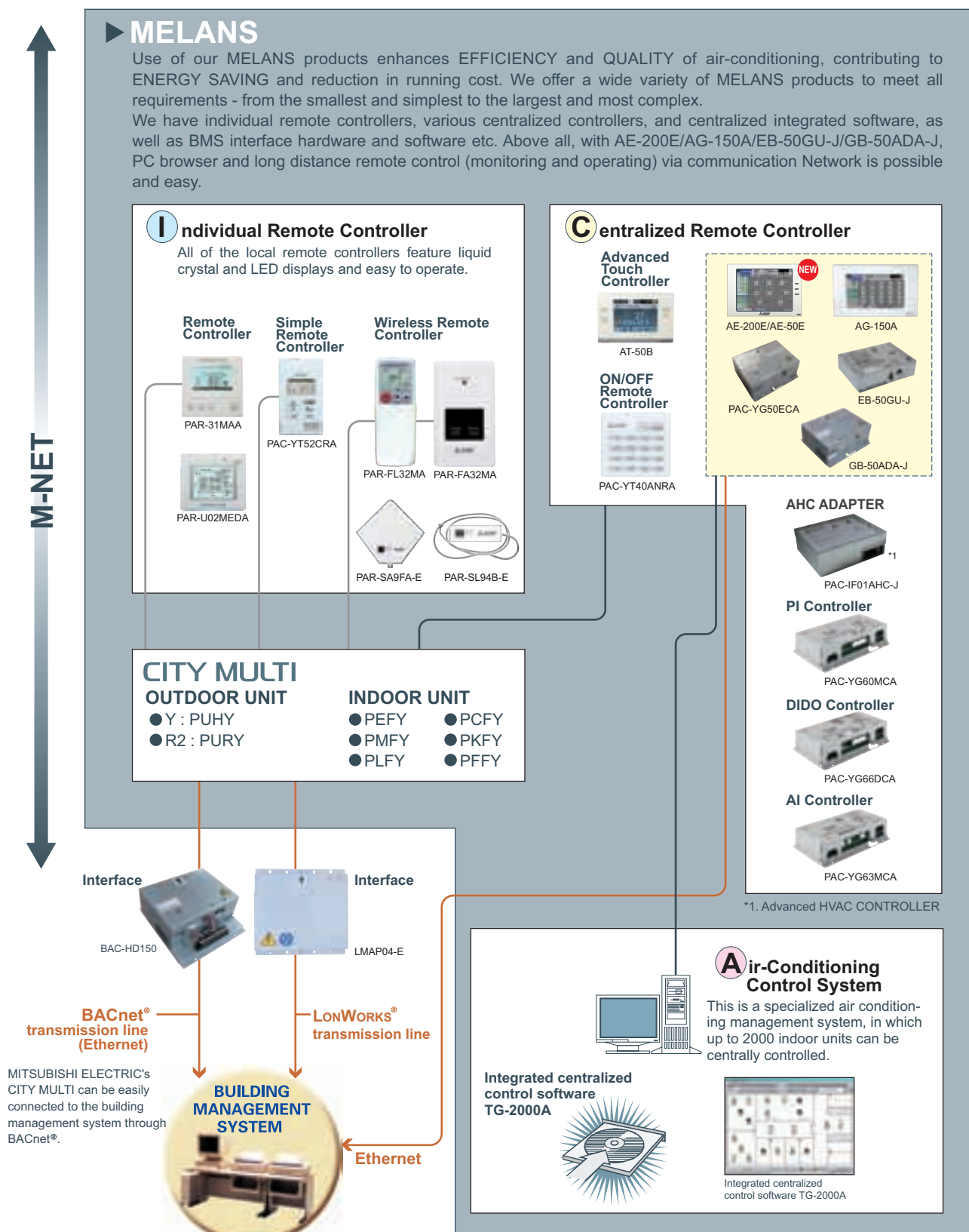
The Simpler, The Better

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 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)

Model	Local remote controller *10					System controller													*10
	PAR-31MAA	PAR-U02MEDA	PAC-YT52CRA	PAR-FL32MA	PAC-YT40ANRA	AT-50B	AE-200E / AE-50E	AE-200E + AE-50E	AG-150A	AG-150A + PAC-YG50ECA	EB-50GU-J	GB-50ADA-J	TG-2000A	*4 *5					
Controllable Groups / Indoors (Group / Indoor)	1 / 16	1 / 16	1 / 16	1 / 16	16 / 50	50 / 50	50 / 50	200 / 200	50 / 50	150 / 150	50 / 50	50 / 50	2000 / 2000						
■Operating																			
ON / OFF	○	○	○	○	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎					
Mode (cool / heat / dry / fan)	○	○	○	○	N	○	◎	◎	◎	◎	◎	◎	◎	◎					
Temperature-set	○	○	○	○	N	◎	◎	◎	◎	◎	◎	◎	◎	◎					
Dual set point	○	○	○	N	○	◎	◎	◎	◎	N	N	N	N	◎					
Local Permit / Prohibit	N	N	N	N	N	◎	◎	◎	◎	◎	◎	◎	◎	◎					
Fan speed	○	○	○	○	N	◎	◎	◎	◎	◎	◎	◎	◎	◎					
Air-flow direction	○	○	○	○	N	◎	◎	◎	◎	◎	◎	◎	◎	◎					
■Status monitoring																			
ON / OFF	○	○	○	○	◎	◎	◎	○	◎	○	◎	○	◎	○					
Mode (cool / heat / dry / fan)	○	○	○	○	N	○	○	○	○	○	○	N	○	○					
Temperature-set	○	○	○	○	N	○	○	○	○	○	○	N	○	○					
Local Permit / Prohibit	○	○	○	○	○	○	○	○	○	○	○	N	○	○					
Fan speed	○	○	○	○	N	○	○	○	○	○	○	N	○	○					
Air-flow direction	○	○	○	○	N	○	○	○	○	○	○	N	○	○					
Indoor temperature	○	○	○	N	N	○	○	○	○	○	○	N	○	○					
Filter sign	○	○	N	N	N	◎	○	○	○	○	○	N	○	○					
Error flashing	○	○	○	○	○	◎	○	○	○	○	○	▲	○	○					
Error code	○	○	○	N	○	○	○	○	○	○	○	N	○	○					
Operation hour	N	N	N	N	N	N	N	N	N	N	N	N	N	●					
■Scheduling																			
One-day	○	○	N	N	N	○	◎	◎	◎	◎	◎	◎	N	◎					
Times of ON / OFF per day	1	1	N	1	N	16	24	24	24	24	24	24	N	24					
Weekly	○	○	N	N	N	○	◎	◎	◎	◎	◎	◎	N	◎					
Times of ON / OFF per week	8 x 7	8 x 7	N	N	N	16 x 7	24 x 7	24 x 7	24 x 7	24 x 7	24 x 7	24 x 7	N	24 x 7					
Annual	N	N	N	N	N	N	◎	◎	◎	◎	◎	◎	N	◎					
Optimized start-up	N	N	N	N	N	N	○	○	○	○	○	○	N	○					
Auto-off timer	○	○	N	N	N	N	N	N	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					
■Recording																			
Error record	○	N	N	N	N	N	○	○	○	○	○	○	N	○					
Daily / monthly report	N	N	N	N	N	N	N	N	N	N	N	N	N	◎					
Electricity charge	N	N	N	N	N	N	N	N	N	N	N	N	N	●					
Energy management data	N	N	N	N	N	N	N	●	N	●	N	N	N	N					
■Other																			
Temp-set limitation by Local R / C	○	○	○	N	N	N	N	N	N	N	N	N	N	N					
Temp-set limitation by System controller *4	○ ^{*6}	○	○ ^{*6}	N	N	○ ^{*6}	N	○ ^{*6}	N	○ ^{*6}	N	○ ^{*6}	N	○ ^{*6}					
Operation-lock	○	○	○	N	N	◎	N	N	N	N	N	N	N	N					
Night setback	○	○	N	N	N	◎	○	○ ^{*2}	○	○ ^{*2}	○	○ ^{*2}	N	○ ^{*2}					
Sliding temperature control	N	N	N	N	N	N	○	○ ^{*2}	○	○ ^{*2}	○	○ ^{*2}	N	○ ^{*2}					
■Management (Group / Interlocked)																			
Ventilation interlock	N / ○	N / ○	N / ○	N	○	○	○	○ ^{*2}	○	○ ^{*2}	○	○ ^{*2}	○	○ ^{*2}					
Group setting	○ ^{*1}	○	○ ^{*1}	N	○	○	○	○ ^{*2}	○	○ ^{*2}	○	○ ^{*2}	N	○ ^{*2}					
Block setting	N	N	N	N	N	N	○	○ ^{*2}	○	○ ^{*2}	○	○ ^{*2}	N	○ ^{*2}					
Revision of electricity charge	N	N	N	N	N	N	N	N	N	N	N	N	N	□ ●					
■Operating on LOSSNAY interlocked (Group / Interlocked)																			
ON / OFF	N / ○	N / ○	N / ○	N / ○ ^{*8}	◎ / ○ ^{*3}	◎ / ○	◎ / ○	◎ / ○	◎ / ○	◎ / ○	◎ / ○	◎ / ○	◎ / ○	◎ / ○					
Fan speed	N / ○	N / ○	N	N	N	◎ / ○	◎ / ○	◎ / ○	◎ / ○	◎ / ○	◎ / ○	◎ / ○	N / N	◎ / ○					
Ventilation mode	N / N	N	N	N	N	◎ / N	◎ / N	◎ / N	◎ / N	◎ / N	◎ / N	◎ / N	N / N	◎ / N					
■Status monitoring on LOSSNAY interlocked (Group / Interlocked)																			
ON / OFF	N / ○	N / ○	N / ○	N	N	○ / ○	○ / ○	○ / ○	○ / ○	○ / ○	○ / ○	○ / ○	N / ○	○ / ○					
Fan speed	N / ○	N / ○	N	N	N	○ / ○	○ / ○	○ / ○	○ / ○	○ / ○	○ / ○	○ / ○	N / ○	○ / ○					
Ventilation mode	N	N	N	N	N	○ / N	○ / N	○ / N	○ / N	○ / N	○ / N	○ / N	N / N	○ / N					

◎: Each group / Batched; ○: Each group; □: Block (for CITY MULTI Indoor unit, not for all Mr.SLIM); ●: AE-200E/AE-50E/AG-150A/GB-50ADA-J/EB-50GU-J license registration possible.
 (●): License registration for the optional functions required N: Not Available (Not Used.) △: Batched only; ▲: Batched handling (for maintenance) ■: Block

- *1. Group setting via wiring between Indoor units with cross-over cable;
 *2. Installation possible at Initial setting web browser;
 *3. Inter-lock is set at Local remote controller.
 *4. AE-200E/AE-50E/AG-150A/EB-50GU-J/GB-50ADA-J license registration to AE-200E/AE-50E/AG-150A/EB-50GU-J/GB-50ADA-J is required to monitor and operate the units by browser and TG-2000A.
 5. AG-150A connected with PAC-YG50ECA is compatible with TG-2000A Ver. 6.10 or later. GB-50ADA-J is compatible with TG-2000A Ver. 6.30* or later. EB-50GU-J is compatible with TG-2000A Ver. 6.40A or later. AE-200E/AE-50E is compatible with TG-2000A Ver. 6.50* or later.
 *6. This function can be set only on the ME remote controller. This function cannot be used with the MA/Simple MA remote controller.
 (But, the validity of this function with the MA/Simple MA remote controller depends on the indoor unit model, and there are possibilities that this function can be used with them.)
 *7. This function is available only when applying together with TG-2000A, AE-200E/AE-50E/AG-150A, GB-50ADA-J, and EB-50GU-J.
 *8. Inter-lock is set from system controllers (Except PAC-YT40ANRA) or local remote controllers.
 *9. The maximum number of controllable units decreases depending on the indoor unit model.
 *10. For indoor use only.
 *11. This function is supported only when all the indoor units, remote controllers, and system controllers that are connected to a given group features the function.
 *12. For the availability of the function, please contact your local distributor.

LOSSNAY remote controller PZ-52SF	
■Controllable LOSSNAY Groups	1
■Controllable LOSSNAY unit	16
■Operating ON/OFF	○
Mode (automatic ventilation/vent-heat interchange/normal ventilation)	○
Local Permit-Prohibit	N
Fan speed	○
Air flow direction	N
■Scheduling	N
■Recording	N

■Management Group setting	○
Block setting	N
■Status monitoring ON/OFF	○
Mode (automatic ventilation/vent-heat interchange/normal ventilation)	○
Local Permit-Prohibit	○
Fan speed	○
Air flow direction	N
Filter sign	○
Error flashing	○
Error code	○

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.

○: Each group, N: Not Available

Individual Remote Controller

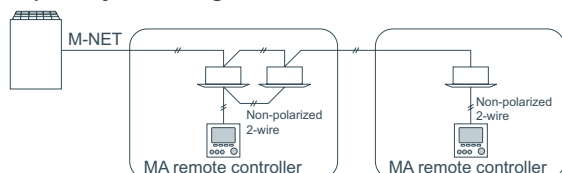


Wired MA remote controller PAR-31MAA



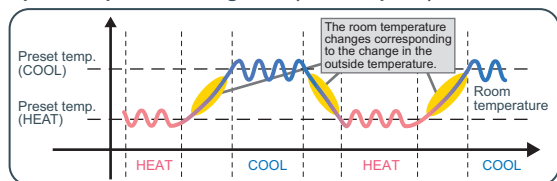
Dimensions: 120(W) x 120(H) x 19(D) mm
: 4-3/4(W) x 4-3/4(H) x 3/4(D) in.

Example of system configuration



*When a PAR-31MAA is connected to a group, no other MA remote controllers can be connected to the same group.

Operation pattern during Auto (dual set point) mode



- Temperature will be displayed either in Centigrade in 0.5- or 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 ×: Not available	
Item	Description	Operations	Display		
ON/OFF	Switches between ON and OFF.	○	○		
Operation mode switching	Switches among Cool/Dry/Fan/Auto/Heat.	○	○		
Room temp. 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 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.	○	○		
Air flow direction setting	Changes airflow direction. * Available airflow directions vary depending on the model.	○	○		
Louver setting	Switches between louver ON/OFF.	○	○		
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.	○	○		
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.	—	○		
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.	○	○		
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).	×	○		
Operation lock	The following operation can be prohibited respectively: ON/OFF, operation mode setting, temperature setting, and airflow direction setting.	○	○		
Temperature range restriction	The room temperature range for each operation mode can be restricted.	○	○		
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.	○	×		

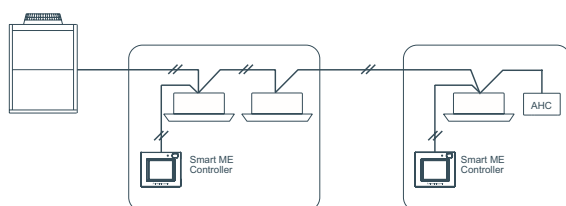
Smart ME Controller PAR-U02MEDA



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

- 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.

Example of system configuration



Functions

○:Each group ×:Not available

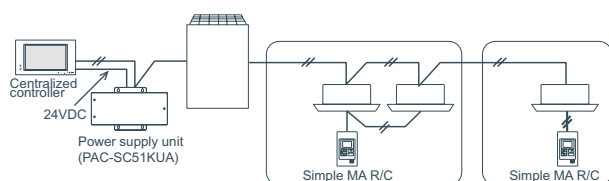
Item	Description	Operations	Display
ON/OFF	Switches between ON and OFF.	○	○
Operation mode switching	Switches between Cool / Drying / Fan / Heat / Auto. Operation modes vary depending on the indoor unit model. Auto mode is for CITY MULTI R2, and WR2 series only.	○	○
Temperature setting	The temperature 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 points) [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.	○	○
Fan speed setting	Changes fan speed. * Available fan speeds vary depending on the model.	○	○
Air flow direction setting	Changes airflow direction. * Available airflow directions vary depending on the model.	○	○
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.	×	○
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.)	—	○
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.	○	○
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.	○	○
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.	○	○

Simple remote controller PAC-YT52CRA (MA)



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, 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

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  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  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

<div> <div></div>: Each unit <div></div>: Each group <div>×</div>: Not available </div>			
Item	Description	Operations	Display
ON/OFF	Changes between ON and OFF.	<div></div>	<div></div>
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.	<div></div>	<div></div>
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 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.	<div></div>	<div></div>
Fan speed setting	Changes the fan speed. * The settable fan speed varies depending on the indoor unit model to be connected.	<div></div>	<div></div>
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.	×	<div></div>
Error	Displays the current error status with the address. * The address may not be displayed depending on the error status.	×	<div></div>
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.	<div></div>	<div></div>
Set temperature range limit	The preset temperature range can be restricted for each operation mode (COOL/HEAT/AUTO).	<div></div>	<div></div>

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
: 2-3/4(W) x 4-3/4(H) x 7/8(D) in.



PAR-SA9FA-E
(4-way Cassette signal receiver)

Dimensions: 256(H) x 19(D) mm

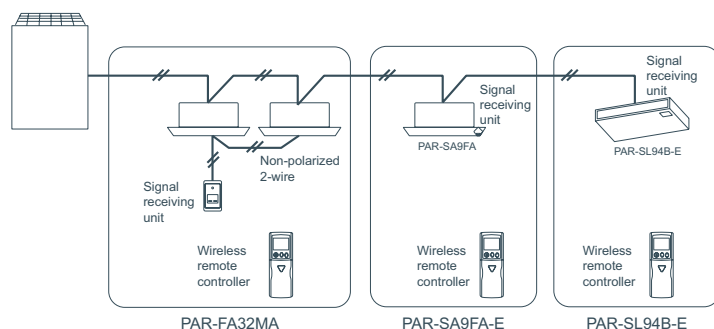


PAR-SL94B-E
(Wireless remote controller kit for ceiling suspended)

Dimensions: 182(W) x 57(H) x 31(D) mm

- 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-P VCM/VLMD PFFY-P VKM PEFY-P VMR-E-L/R/VMH PFFY-P VLEM/VKM/VLRM/VLRMM PEFY-P VMS1(L) PEFY-VMA(L)	PAR-FA32MA	PAR-FL32MA
PCFY-P VKM	PAR-FA32MA PAR-SL94B-E	
PLFY-P VBM-E	PAR-SA9FA-E	
PKFY-P VBM-E		
PKFY-P VHM/VKM	Built-in	

Functions

○ : Each group × : Not available			
Item	Description	Operations	Display
ON/OFF	ON and OFF operation for a single group	○	○
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 N16H fan speed only. * Set to PAR-FL32MA according to its Installation Manual 4 "Model setting".	○	○
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.	○	○
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.	×	○ ^{*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.	×	×

* Some models will have different display for the air flow direction 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.

NEW

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.

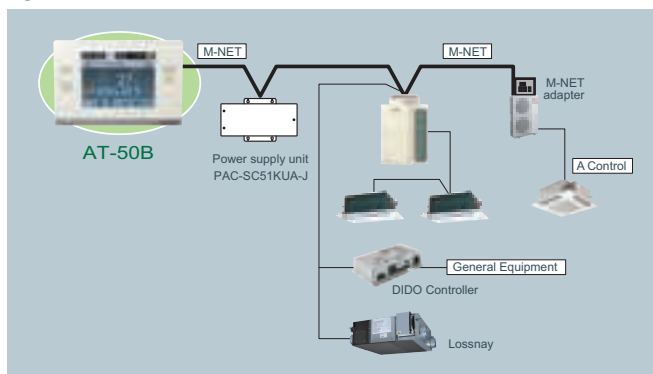
- Temperature will be displayed either in Centigrade in 0.5- or 1-degree increments, or in Fahrenheit, depending on the indoor unit model and the display mode setting on the remote controller.

Dual set point

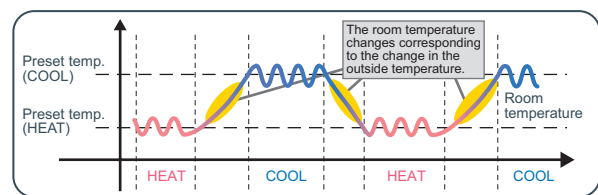
When the operation mode is set to the Auto (dual set point) mode, two preset temperatures (one each for cooling and heating) can be set. Depending on the room temperature, indoor unit will automatically operate in either the Cool or Heat mode and keep the room temperature within the preset range.

*Please contact your Mitsubishi Electric sales office for details.

System structure



Operation pattern during Auto (dual set point) mode



Design

Backlit LCD (Liquid Crystal Display) Touch Panel

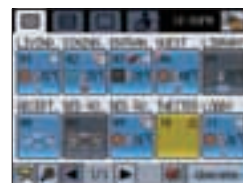
5-inch color LCD touch panel enables easy and simple operation.

The backlight lights up when the panel is touched, and lights off after certain period of time.

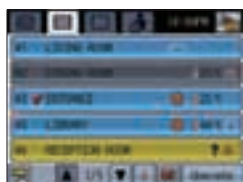
The touch panel displays the operation status of the units in GRID, LIST or in GROUP.



GRID (zoom-out) screen
Displays the operation status of all groups.



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



LIST screen
Displays the detailed operation status of each group with group name.



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

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)

Advanced Functions

□: Each unit ○: Each group ◎: Group or collective ×: Not available			
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.	◎	◎
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.	◎	◎
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.	×	□◎
Ventilation (independent)	Switches the mode "Bypass/Heat recovery/Auto" for LOSSNAY groups.	◎	◎
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.	◎	◎
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.)	◎	◎
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.	◎	◎
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.	◎	◎
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.	◎	◎
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.	○	○

* 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.

NEW**Centralized Controller AE-200E/AE-50E****Dual Set Point**

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

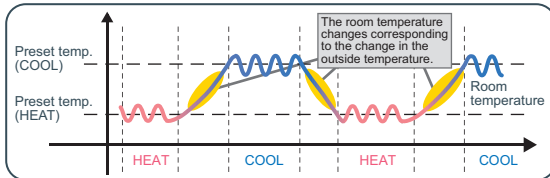
Energy consumption of applicable area is displayed by the month, day, and hour.

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.

Operation pattern during Auto (dual set point) mode

- **By comprehensively showing the energy consumption of air-conditioning equipment, it provides assistance in energy saving.**

- 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 air-conditioning equipment.

- By using three units of expansion controller "AE-50E", the centralized control is implemented for the maximum of 200 indoor units.

- Connection with PC allows implementation of control on more than 200 indoor units via Web browser.*1

*1. Please contact your local distributor for when the feature is supported.

- **Features for operating and monitoring the hot water heat pump are also available on CAHV, PWFY, and CRHV.*2**

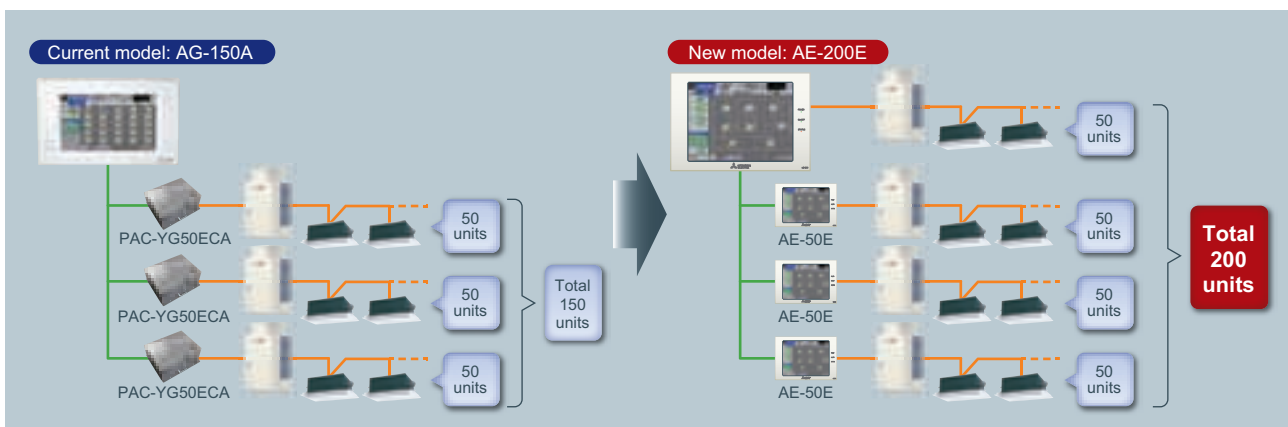
- Centralized batch control on CAHV, PWFY, and CRHV *2 is possible in addition to that on air-conditioning unit.

*2. Please contact your local distributor for when these features are supported on CRHV.

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.

Comparison in the Number of Connectable Units

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11/11/2019

*1. Please contact your local distributor for when the feature is supported.

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).

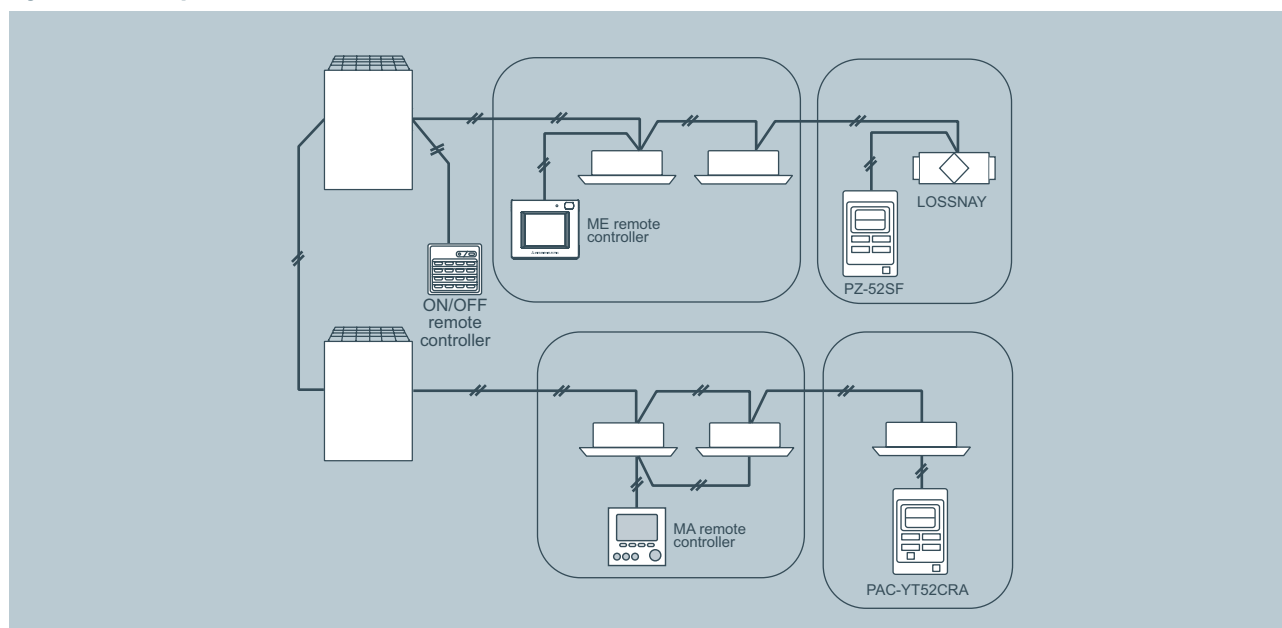
ON/OFF remote controller PAC-YT40ANRA



- 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



FUNCTION	DESCRIPTION	PAC-YT40ANRA	
UNITS	Max No.Units	50 units/16 groups	
		OPERATIONS	DISPLAY
ON/OFF	Run and stop operation	✓	✓
ERROR INDICATION	LED flashes during failure. (The error code can be confirmed by removing the cover.)	—	✓
VENTILATION OPERATION (INDEPENDENT)	Group operation of only LOSSNAY units possible. *Only ON/OFF of group.	✓	✓
VENTILATION OPERATION (INTERLOCKED)	The LOSSNAY will run in interlock with the operation of indoor unit. *The fan rate and mode cannot be changed. The LED will turn ON only during operation after interlocking.	✓	✓
EXTERNAL INPUT	On/Off/Fire Alarm *	✓	—
EXTERNAL OUTPUT	On/Off/Faults *	—	✓

* Applicable to collective only
Not applicable to groups

Centralized controller EB-50GU-J



EB-50GU-J (without display)

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



Java is a registered trademark of Oracle and/or its affiliates.

The Web Server Function enables Remote Operation or Scheduling Via a Web Browser on a Personal Computer!
Up to 50 indoor units can be controlled!

Web Browser

Enables monitoring and operation of indoor units using a PC with Microsoft® Internet Explorer (Ver.8 or Ver.9)

*When connecting to the Internet, please use the VPN (Virtual Private Network).

Using “Dial-up Connection”

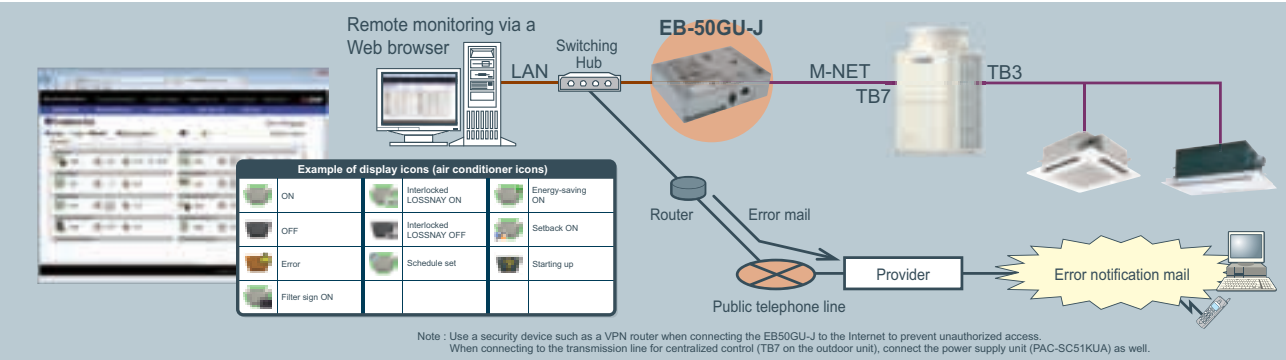
- Enables monitoring and operation from a remote place
- Enables error notification by e-mails to a PC or to a mobile phone

□:Each unit ○:Each group ●:Each block △:Each floor ◎:Collective X:Not available

Function	Description	Operations	Display
ON / OFF	Run and stop operation for the air conditioner units	○●◎	○◎
Mode selection	Switches between COOL/DRY/FAN/AUTO/HEAT	○●◎	○
Temperature setting	The room temperature can be set for all floors or in block, floor or group units. Set temperature range COOL / DRY :19°C to 30°C / 66°F to 86°F HEAT :17°C to 28°C / 63°F to 82°F AUTO (single set point) :19°C to 28°C / 66°F to 82°F *Depend on the model AUTO (dual set points) [Cool] Same as the set temp. range for Cool mode. [Heat] Same as the set temp. range for Heat mode.	○●◎	○
Air flow direction setting	Air flow direction angles, 4-angle or 5-angle Swing, Auto (Louver cannot be set)	○●◎	○
Timer operation / Schedule	Annual/Weekly (5 types)/today schedule can be set for each group of air conditioning units. Optimized startup setting is also available.	○●◎	○
Permit / Prohibit function	Individually prohibit operation of each local remote control function	○●◎	○
Indoor unit intake temperature	Measures the intake temperature of the indoor unit only when the indoor unit is operating.	X	○
Error	When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed.	X	□
Test run	This operates air conditioner units in test run mode.	○◎△●	○
Ventilation interlock	Operation of indoor groups or general equipment can be interlocked by the change of state (ON/OFF, mode, error of indoor groups and general equipment).	○	○
AHC status	Displays the status of input and output ports of each Advanced HVAC CONTROLLER (AHC).	X	□
Energy Use Status	On the Energy Use Status screen, the energy-control-related status, such as electric energy consumption, operation time, and outdoor temperature, can be displayed in a graph. Operators can check the detailed status of given indoor units by specifying the date to display the data per group, block, or unit address.	X	□○●

*NOTE: Operation and displayed content vary depending on the indoor unit model.

System Structure (image)



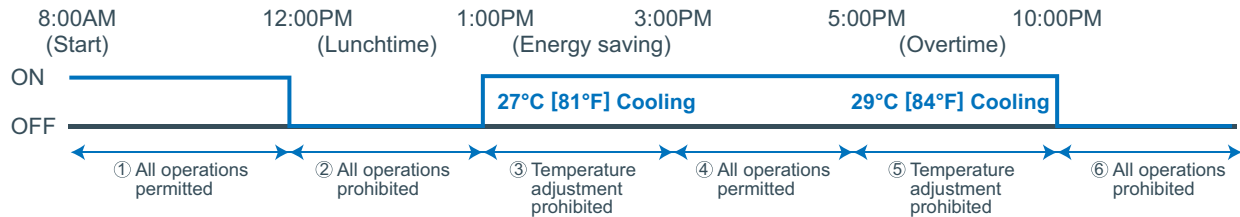
Annual / Weekly Schedule

Enables Weekly and Annual scheduling with a registering license

- The operations that can be scheduled for air conditioning unit group: ON/OFF/Optimized Start, Mode, Set Temp, Air Direction, Fan Speed, and Prohibit Remote Controller operation
- For annual schedule, it is possible to set 50 day-long settings up to 24 months into the future.



Scheduling example in the office



Up to 24 operation settings per day in 1-minute increment

Centralized controller GB-50ADA-J*

*GB-50ADA-J is indicated as GB-50ADA.



GB-50ADA-J (without display)

- 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.

The Web Server Function enables Remote Operation or Scheduling Via a Web Browser on a Personal Computer!
Up to 50 indoor units can be controlled!

Web Browser

Enables monitoring and operation of indoor units using a PC with Microsoft® Internet Explorer (Ver.6 or 7 or 8) (Web browser function is an optional and needs license registration.)

*When connecting to the Internet, please use the VPN (Virtual Private Network).

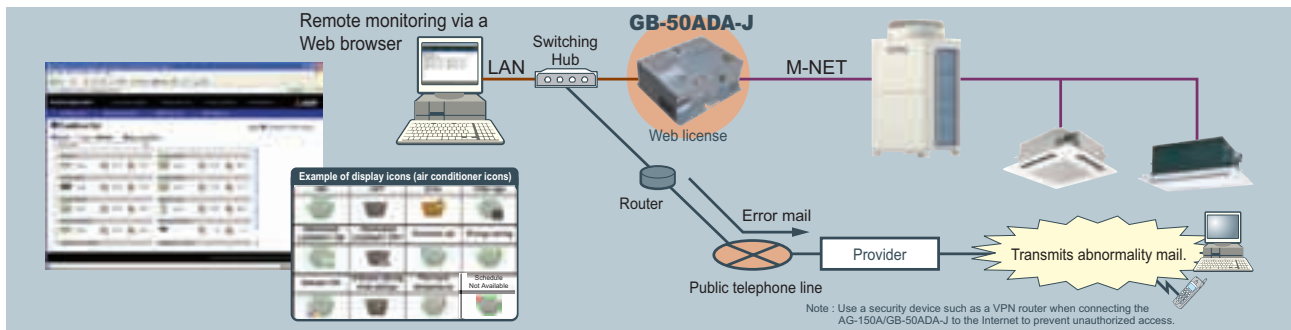
Using "Dial-up Connection"

- Enables monitoring and operation from a remote place
- Enables error notification by e-mails to a PC or to a mobile phone

Function	Description
GB-50ADA-J (web browser)	
ON / OFF	Run and stop operation for the air conditioner units
Mode selection	Switches between Cool / Dry / Auto / Fan / Heat.
Temperature setting	The temperature can be set within the following range. 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) () in case of using middle-temperature on PEFY, PEFY-VML/VMR/VMS/VMH by setting DipSW7-1 to ON. Yet, PEFY-P-VMH-E-F is excluded. *Set temperature range varies depending on the model.
Air flow direction setting	Air flow direction angles, 4-angle or 5-angle Swing, Auto (Louver cannot be set)
Schedule operation	Annul/Weekly (5 types)/today schedule can be set for each group of air conditioning units. Optimized startup setting is also available.
Permit / Prohibit function	Individually prohibit operation of each local remote control function
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 occurring on an air conditioner unit, the afflicted unit and the error code are displayed.
Test run	-
Ventilation interlock	Operation of indoor groups or general equipment can be interlocked by the change of state (ON/OFF, mode, error of indoor groups and general equipment).

*NOTE: Operation and displayed content vary depending on the indoor unit model.
License registration is necessary to perform each function on GB-50ADA-J.

System Structure



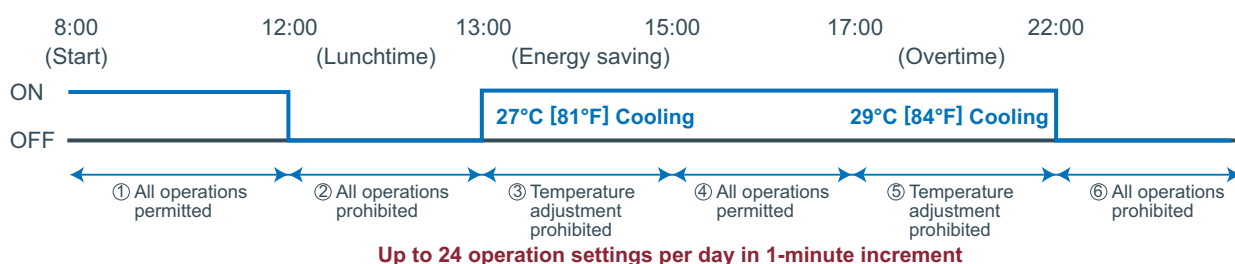
Annual / Weekly Schedule

Enables Weekly and Annual scheduling with a registering license

- The operations that can be scheduled for air conditioning unit group: ON/OFF/Optimized Start, Mode, Set Temp, Air Direction, Fan Speed, and Prohibit Remote Controller operation
- For annual schedule, it is possible to set 50 day-long settings up to 24 months into the future.



Scheduling example in the office



External Signal Interface

AHC ADAPTER PAC-IF01AHC-J



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.

Advanced HVAC CONTROLLER (hereafter referred to as **AHC**) comprises of MITSUBISHI ELECTRIC's **AHC ADAPTER (PAC-IF01AHC-J)** and **α2 SIMPLE APPLICATION CONTROLLER*** (hereafter referred to as **ALPHA2**).

*α2 SIMPLE APPLICATION CONTROLLER is one of the Programming Logic Controllers that are manufactured by MITSUBISHI ELECTRIC CORPORATION.

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.

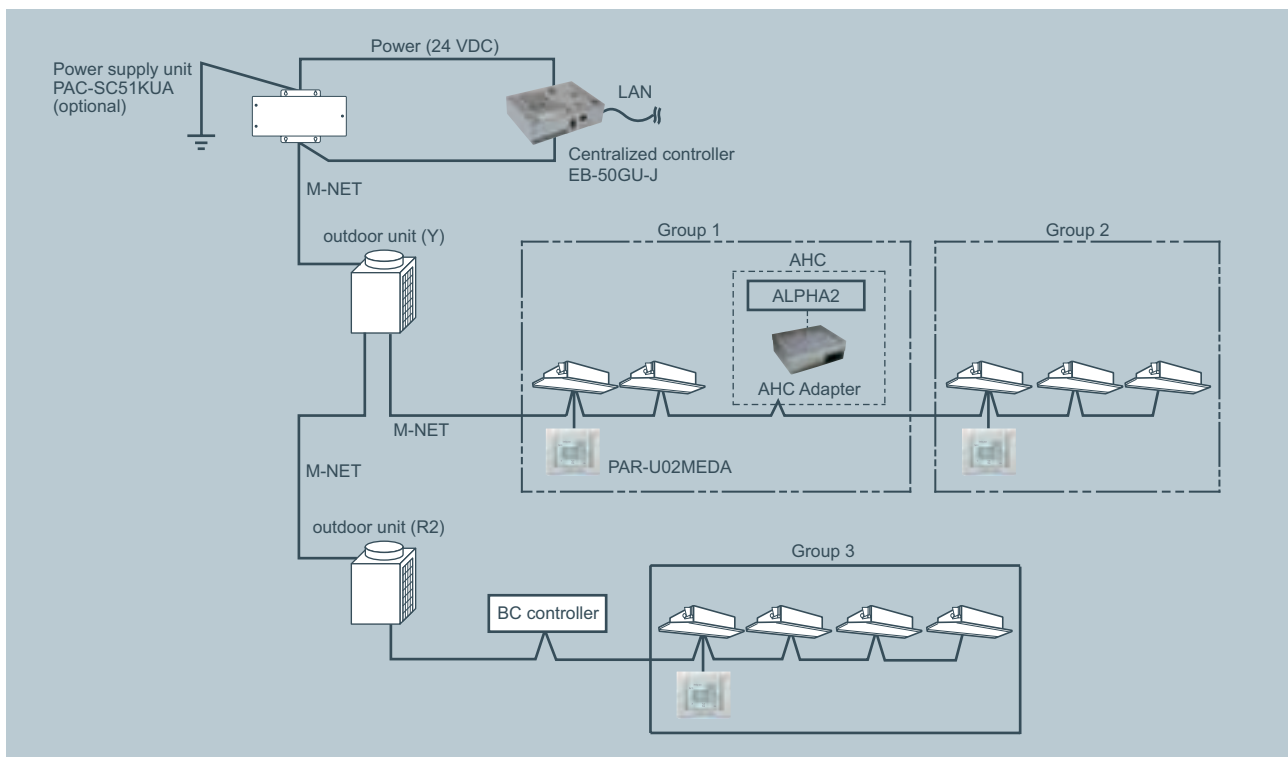
Compatible controllers

- 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



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.

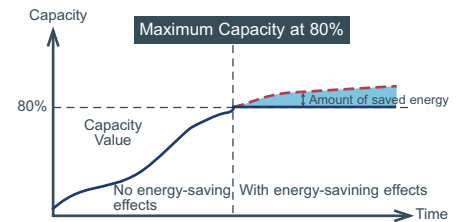
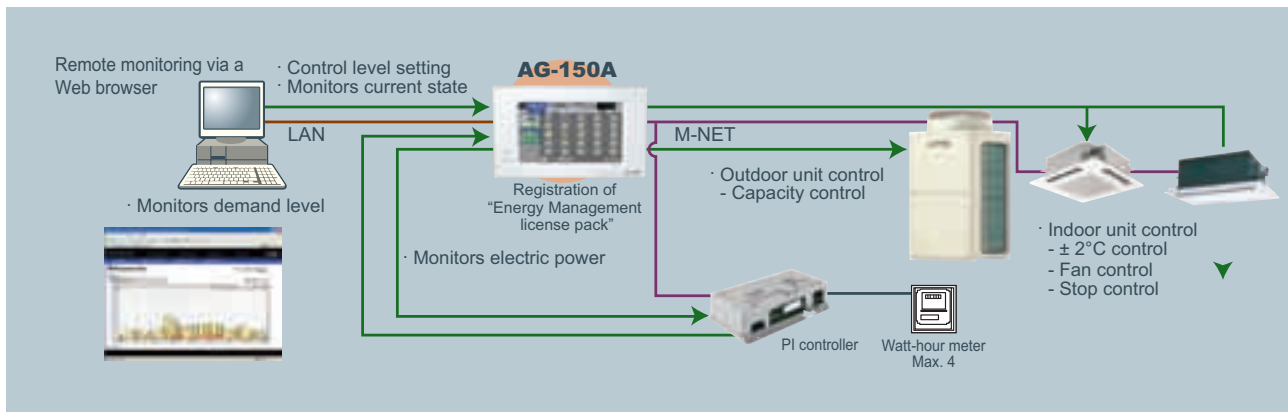
*24 VDC power needs to be provided on site.

Energy Saving Control (Peak Cut)

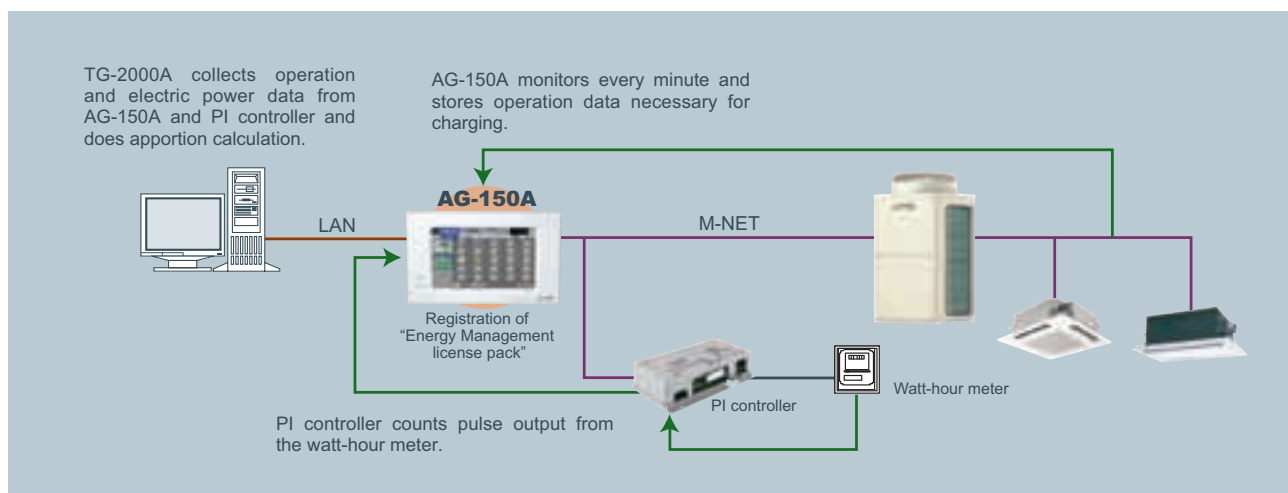
Enables Energy Saving Control with the use of our new PI controller. (Registration of "Energy Management license pack" is required.)

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

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

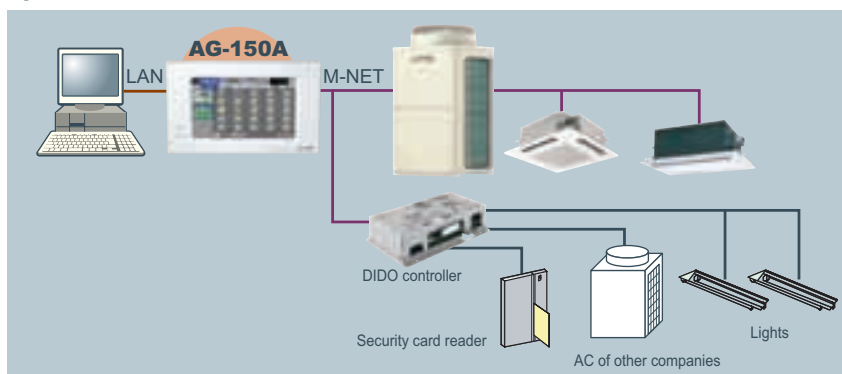
Enables to control and monitor equipment other than air-conditioners (air-conditioners of other companies, lights, ventilators, etc.)

- 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.

Icon display (Lights)



System Structure



AI Controller PAC-YG63MCA



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.

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

The AI controller has two input and two output channels.

*24 VDC power needs to be provided on site.

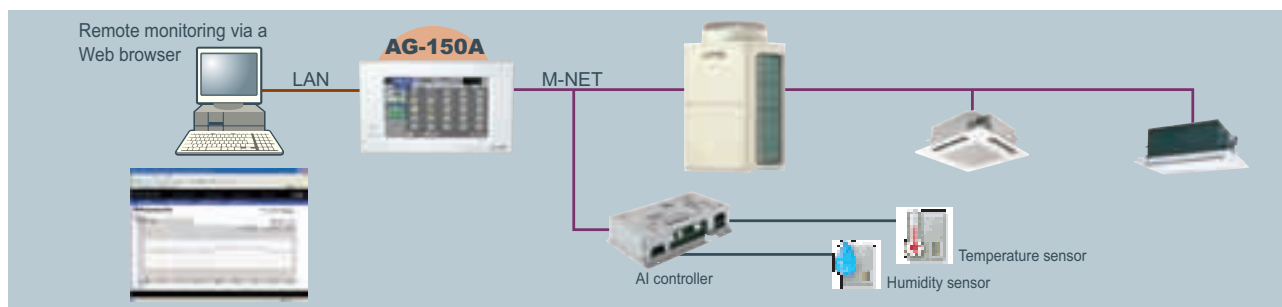
Temperature/Humidity Monitoring

Monitors the values measured by the temperature/humidity sensor connected to the AI 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.
- An alarm can be output by e-mail when measurement data exceeds a preset upper or lower limit.

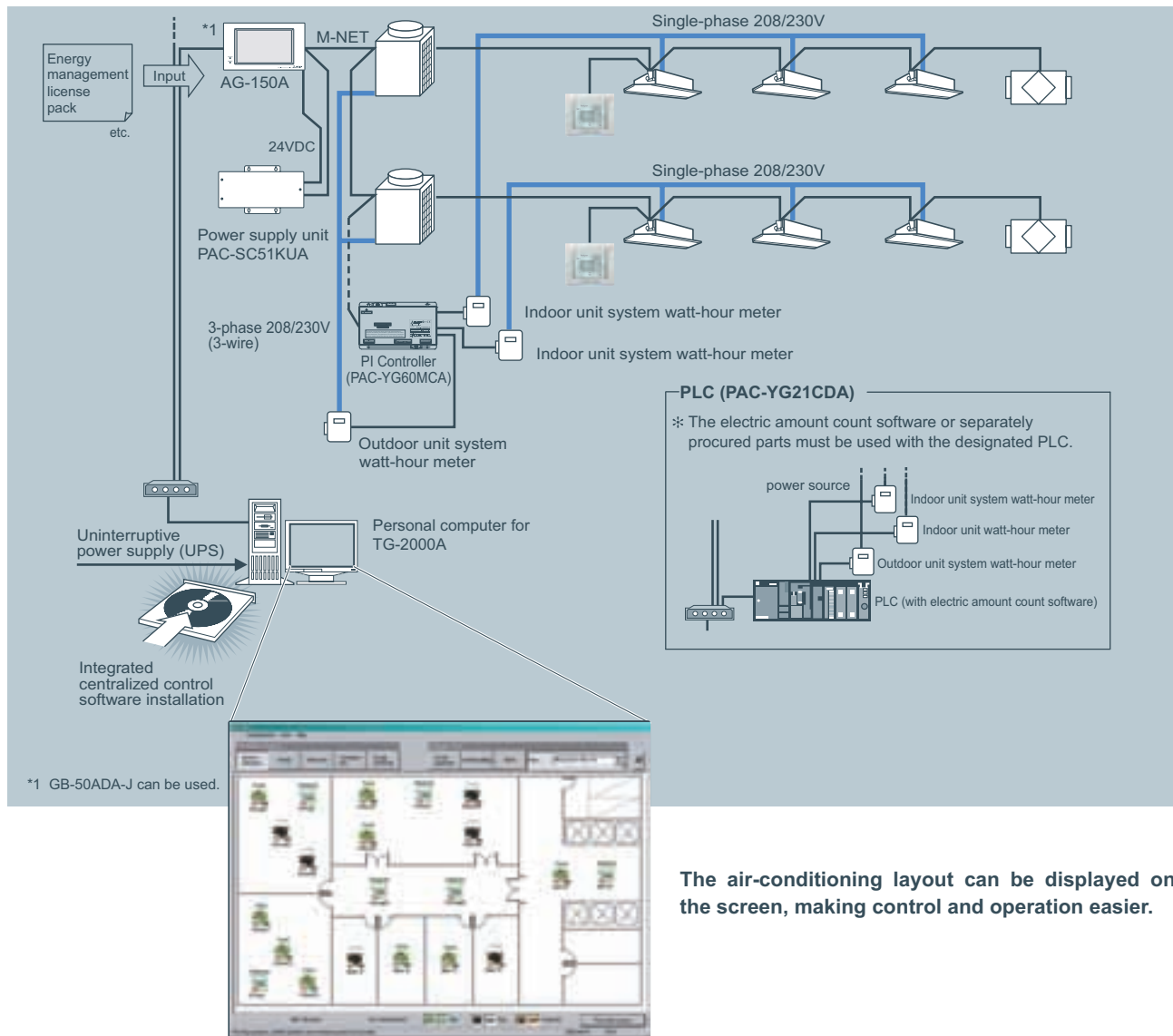
System Structure



Supervision System

Integrated centralized control software TG-2000A

Example of Basic System Configuration



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.

B.M.S. Interface

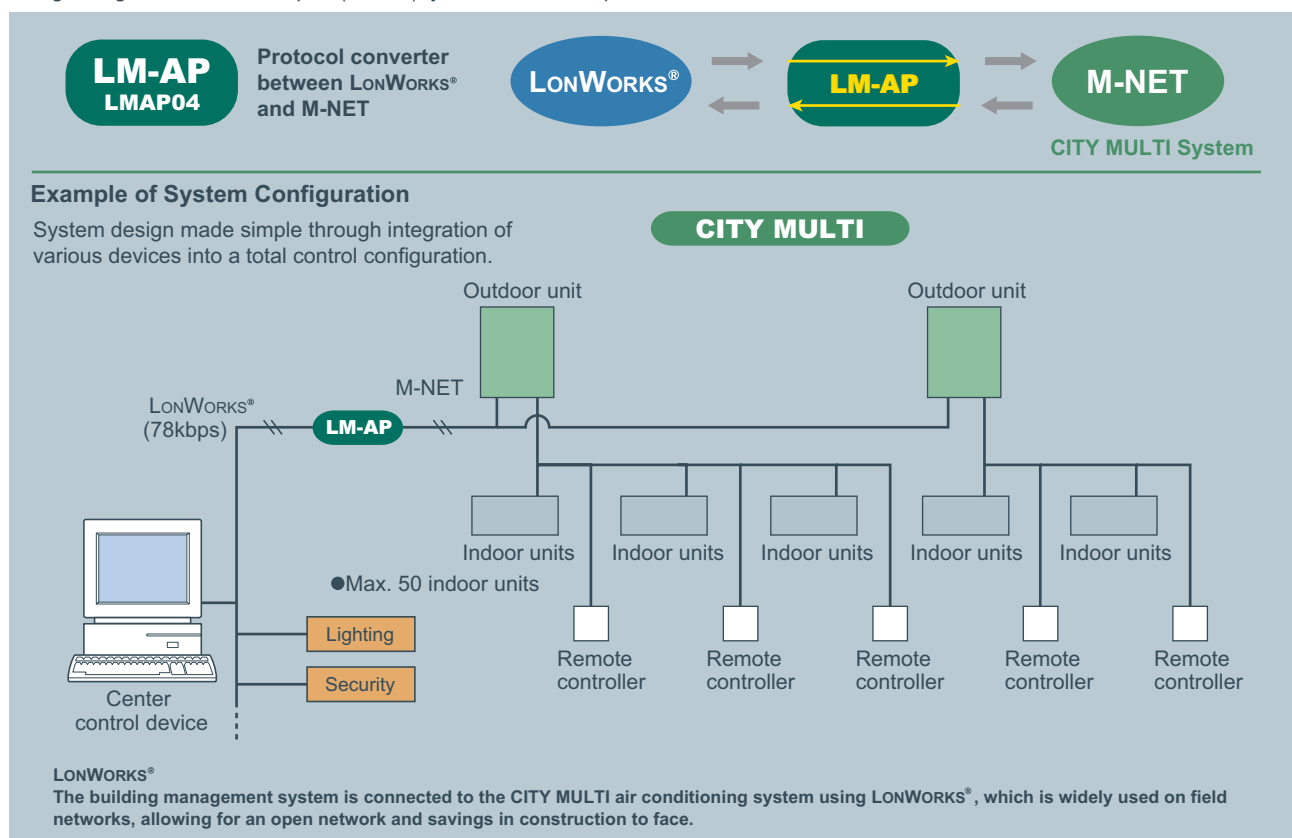


LONWORKS® (LMAP04)

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.



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

BACnet® (BAC-HD150)

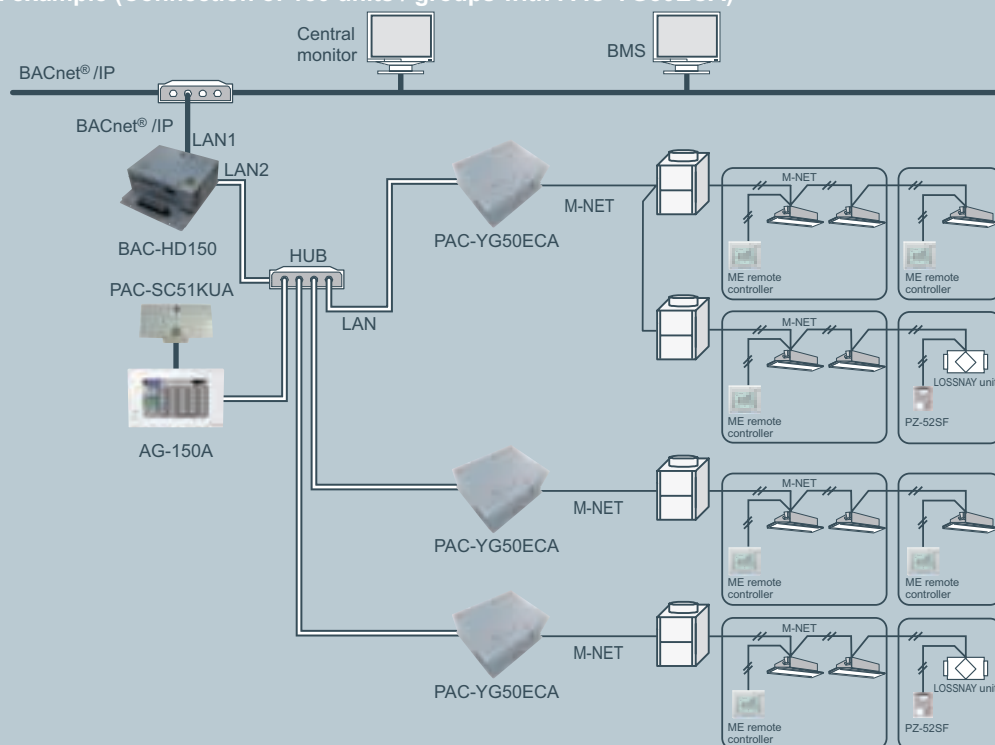
CITY MULTI can easily combine into a Building Management System (BMS) via the BACnet® and M-NET adapter BAC-HD150. BACnet® is an opened transmission protocol widely used at BMS, and related equipment control. CITY MULTI is therefore compatible with large-scaled BMS management via BACnet®.

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)

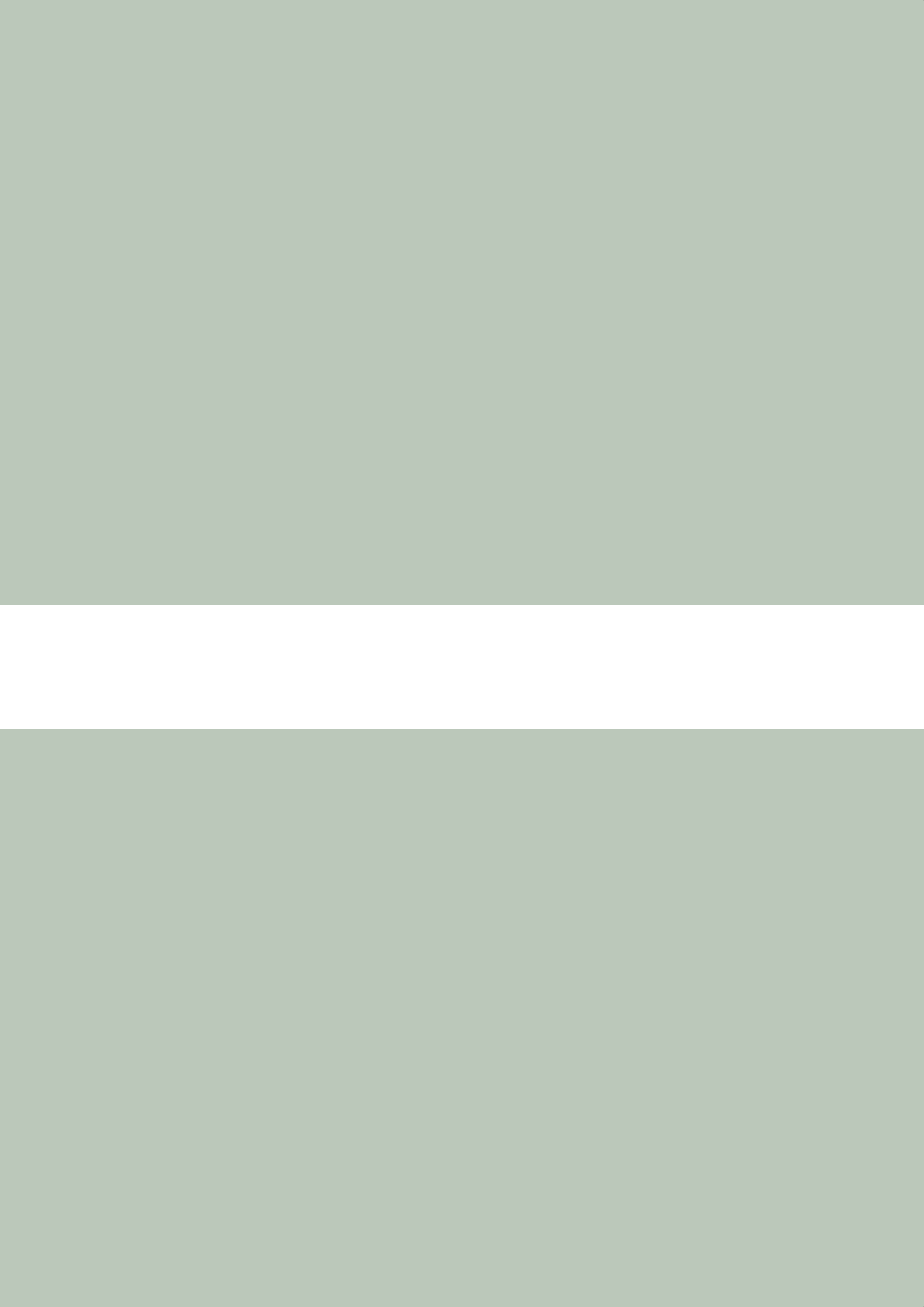
When the dual-set-point function is used, no expansion controllers can be connected, and only up to 50 units/groups can be controlled from each BAC-HD150.

System example (Connection of 150 units / groups with PAC-YG50ECA)



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

OPTIONAL PARTS FOR INDOOR UNITS

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

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

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

Description	Model	Applicable capacity
Decoration panel	CMP-40VLW-C	P20, P25, P32, P40
	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

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

Description	Model	Applicable capacity
Decoration panel	PMP-40BM	P20, P25, P32, P40

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

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

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

Description	Model	Applicable capacity
Filter box	PAC-KE91TB-E	P20, P25, P32
	PAC-KE92TB-E	P40, P50
	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
Long life filter	PAC-KE88LAF	P80
	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 pump kit	PAC-SH83DM-E	P40
	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
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
Branch Pipe (2 Branch)	CMY-Y62-G-E
Header	CMY-Y64-G-E
Header	CMY-Y68-G-E
Drain Socket	PAC-SG61DS-E
Centralized Drain Pan	PAC-SH97DP-E
Port Connector (ø9.52 → 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
Base Heater	PAC-SJ20BH-E

>>For PUHY series

Description	Model	Remarks
Twinning kit	CMY-Y100VBK3	For PUHY-P400-P650YSKB / EP500-EP600YSLM
	CMY-Y200VBK2	For PUHY-P700-P900YSKB
	CMY-Y300VBK3	For PUHY-P950-P1350YSKB / EP650-EP1350YSLM
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 1st branch of P400-P650YSKB / EP400-EP600YSLM
		651 or above (Total capacity of indoor unit)
	CMY-Y302S-G2	The 1st branch of P700-P1350YSKB / EP650-EP1350YSLM
Branch pipe (Header)	CMY-Y104-G	For 4 branches
	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.
Base heater	PAC-BH04EHT-E	For S Module
	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 PUHY-HP 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)
Branch pipe (Header)	CMY-Y104-G	The 1st branch of P400, P500
		For 4 branches
		For 8 branches
		For 10 branches
Twinning kit	CMY-Y100VBK2 / 3	For PUHY-HP400, HP500YSHM-A
Relay box	PAC-BH02KTY-E	Relay box should be used together with Base heater PAC-BH-EHT-E.
Base heater	PAC-BH01EHT-E	For S 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
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)
	CMY-Y302S-G2	The first branch of P400-P600
Branch pipe (Header)	CMY-Y104-G	651 or above (Total capacity of indoor unit)
		For 4 branches
		For 8 branches
		For 10 branches
Twinning kit	CMY-Y100VBK2	For PQHY-P400-P600YSHM-A
	CMY-Y300VBK2	For PQHY-P650-P900YSHM-A

>>For PQR 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)
Twinning kit	CMY-Q100VBK	The first branch of P400-P600
		For PQR-P400-P600YSHM-A

OPTIONAL PARTS FOR CONTROL

Model	Description
PAC-SE41TS-E	Remote Sensor for A/J/K/M-Net Control
PAC-SE55RA-E	Remote ON/OFF adaptor for Indoor Unit
PAC-SA88HA-EP	Remote Display Adaptor for Indoor Unit
PAC-SA89TA-EP	Timer Adaptor for remote controller
PAC-SC37SA-E	Output signal connector
PAC-SC36NA-E	Input signal connector
PAC-SF46EPA	Transmission booster
LMAP04-E	Air conditioner interface
PAC-YG11CDA	Electric amount count software
BAC-HD150	BAC net® and M-NET adapter

Model	Description
PAC-YT41HAA	External input/output adaptor for AT-50A
PAC-YG10HA	External input/output adaptor for AG-150A
PAC-YG50ECA	Expansion controller for AG-150A
PAC-SC51KUA	Power supply unit for AG-150A / GB-50ADA-J
PAC-YG81TB	Mounting attachment B type for AG-150A wall-mount installations
PAC-YG83UTB	Electric box for AG-150A wall-embed installations
PAC-YG85KTB	Mounting attachment A type for AG-150A/PAC-SC51KUA wall-mount installations
PAC-YG71CBL	Black surface cover for AG-150A

OPTIONAL PARTS FOR OUTDOOR UNITS

>>For PURY series

Description	Model	Remarks
Twinning kit	CMY-R100VBK-A	For PURY-P400~P500YSLM
	CMY-R100VBK2	For PURY-P550~P650YSLM
	CMY-ER100VBK-A	For PURY-EP500YSLM
	CMY-R200VBK2	For PURY-P700~P800YSLM
	CMY-ER200VBK	For PURY-EP550~EP900YSLM
	CMY-R200XLVBK	For PURY-P850~900YSLM
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 1st branch of P450~P650
Relay box	PAC-BH02KTY-E	Relay box should be used together with Base heater PAC-BH-EHT-E.
Base heater	PAC-BH04EHT-E	For S Module
	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.

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
LMA04-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	CMY-R160-J1	CMY-Y102SS-G2
CMB-P105V-G1		
CMB-P106V-G1		
CMB-P108V-G1, GA1, GB1		
CMB-P1010V-G1, GA1		
CMB-P1013V-G1, GA1		
CMB-P1016V-G1, GA1, HA1, HB1		







P FAV Series

— **Standard Model**

— **Fresh Air Intake Model**

PFAV series

PFAV series is a large capacity floor standing indoor unit with high air flow operation especially designed for various types of large spaced application. The unit is an one-to-one connection unit meaning one indoor is connected to one outdoor unit. The lineup consists of two models; standard model and fresh air intake model, selectable depending on usage.

Adaptable to various applications

With wide range of airflow and static pressure, and piping length up to 165m, PFAV series can provide flexibility in design by adapting to various applications from shops, schools, and to factories.

	Air flow rate	External static pressure
	m ³ /min	Pa
PFAV-P250VM-E	90	30/90
PFAV-P500VM-E	180	30/130
PFAV-P750VM-E	260	100/310
PFAV-P300VM-E-F	45	80
PFAV-P600VM-E-F	90	110/170
PFAV-P900VM-E-F	120	210/330



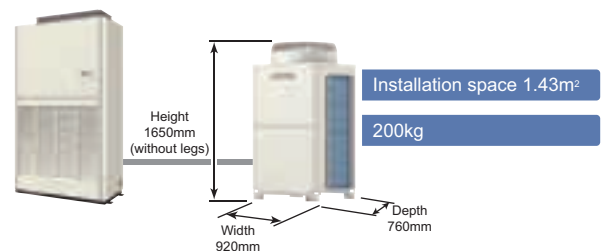
Large capacity indoor unit

PFAV is a floor standing large capacity indoor unit, which reduces the piping and installation burdens, moreover makes maintenance easy.

OUTDOOR UNIT

Compact outdoor unit

PFAV series can only be connected to PUHY-YJM outdoor units. YJM series offers small footprint and lightweight inversely to high heating capacity, which allows easy transportation and saves installation space.



High Reliability

Outdoor heat exchangers have been treated with an anti-corrosion coating ensuring higher resistance against salt damage or air pollution.

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

CONTROL

With the usage of MA controller (PAR-21MAA), which is embedded at the PFAV series, following energy saving functions can be provided.

Auto-OFF timer

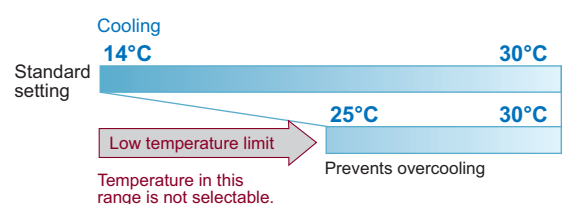
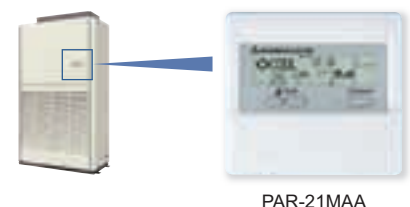
Automatically switches off based on presetting time. (Preset time can be 30min-4hours, per 30min)

Limiting set temperature range

By limiting lowest / highest temperature, it is possible to save energy when air conditioners are frequently used.

Locking function

To sustain optimal temperature, and prevent operational errors, buttons can be locked to only ON/OFF control.



Standard model

Features

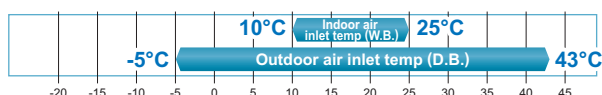
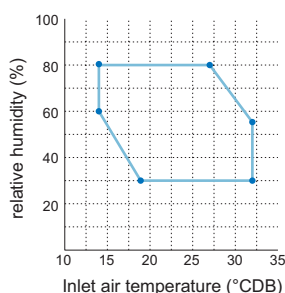
Highly energy efficient with easy installation and maintenance, the standard PFAV model is suitable for working places where large capacity air conditioning is required.

Line up

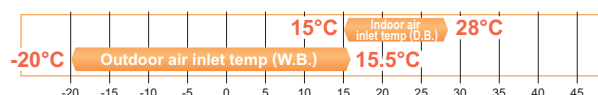
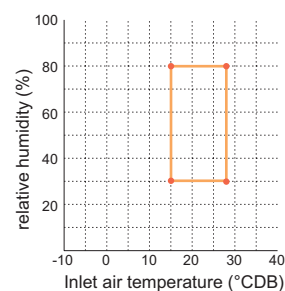


Wide temperature range

Cooling



Heating



By controlling the air volume of the outdoor unit fan, operation is available even when the outdoor temperature is -5°C for cooling and -20°C for heating.

*In heating operation, operation capacity may fall below the rated capacity in low outdoor temp. / indoor inlet temp. conditions.

Fresh Air Intake model

Features

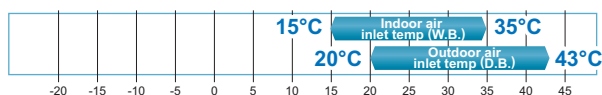
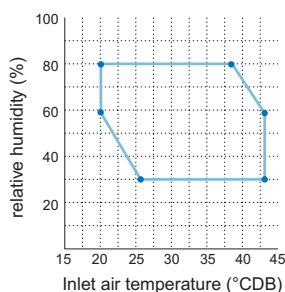
Fresh air intake model takes in fresh air from the outdoor suitable for application such as factories and laboratories where intake of indoor air is not favored.

Line up

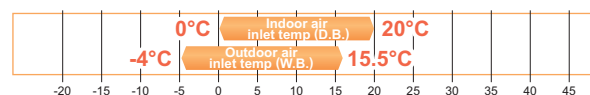
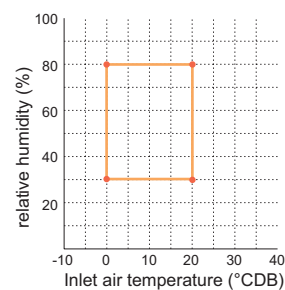


Wide temperature range

Cooling



Heating



Heating operation is available at -4°C Outdoor temperature making it adaptable for places with frequent heating requirements.

PFAV Series

STANDARD Model

PFAV-P VM-E



► Specifications

Model Name		Indoor	PFAV-P250VM-E		PFAV-P500VM-E		PFAV-P750VM-E	
		Outdoor	PUHY-P250YJM-A(-BS)		PUHY-P500YSJM-A(-BS) (PUHY-P250YJM-A(-BS) × 2, CMY-Y100VBK2)		PUHY-P750YSJM-A(-BS) (PUHY-P350YJM-A(-BS) +PUHY-P400YJM-A(-BS), CMY-Y200VBK2)	
Operation			Cooling	Heating	Cooling	Heating	Cooling	Heating
System capacity		kW	25.0 (Maximum 28.0)	28.0 (Maximum 31.5)	50.0 (Maximum 56.0)	56.0 (Maximum 63.0)	71.0 (Maximum 80.0)	80.0 (Maximum 90.0)
System Power input		kW	7.46 / 7.53	8.27 / 8.34	17.85 / 18.84	17.00 / 17.99	26.33 / 27.40	23.93 / 25.00
System current		A	14.5-13.8-13.3 / 13.4-12.8-12.3	15.8-15.0-14.4 / 14.7-14.0-13.4	32.3-30.7-29.6 / 32.6-31.0-29.9	30.8-29.3-28.2 / 31.1-29.6-28.5	48.1-45.7-44.1 / 47.5-45.1-43.5	43.4-41.2-39.8 / 42.8-40.6-39.2
Power source			3-phase 4-wire 380-400-415V (50Hz / 60Hz)		3-phase 4-wire 380-400-415V (50Hz / 60Hz)		3-phase 4-wire 380-400-415V (50Hz / 60Hz)	
Power input		kW	0.82 / 0.89		2.37 / 3.36		4.30 / 5.37	
Current		A	3.4-3.2-3.1 / 2.3-2.2-2.1		6.2-5.9-5.7 / 6.5-6.2-6.0		10.9-10.4-10.0 / 10.3-9.8-9.4	
Fan	Type × Quantity		Sirocco fan × 2		Sirocco fan × 1		Sirocco fan × 1	
	Airflow rate		90		180		260	
	External static pressure		30 / 90		30 / 130		100 / 310	
	Motor output		2.2		5.5		7.5	
Refrigerant			R410A		R410A		R410A	
External finish			Galvanized steel plate (with polyester coating) <MUNSEL 5Y 8/1 or similar>		Galvanized steel plate (with polyester coating) <MUNSEL 5Y 8 / 1 or similar>		Galvanized steel plate (with polyester coating) <MUNSEL 5Y 8 / 1 or similar>	
External dimension H × W × D		mm	1,748 × 1,200 × 485		1,899 × 1,420 × 635		1,860 × 1,750 × 1,064	
Protection devices		Fan motor	Thermal switch		Thermal switch		Thermal switch	
Refrigerant piping diameter	Liquid pipe		9.52 Brazed (12.7 for over 90m)		15.88 Brazed		19.05 Brazed	
	Gas pipe		22.2 Brazed		28.58 Brazed		34.93 Brazed	
Refrigerant piping allowable length		m	165		165		165	
Sound pressure level		dB(A)	55		59 / 62		65	
Heat exchanger			Cross fin (Aluminum plate fin and copper tube)		Cross fin (Aluminum plate fin and copper tube)		Cross fin (Aluminum plate fin and copper tube)	
Air filter			Synthetic fiber unwoven cloth filter		Synthetic fiber unwoven cloth filter		PP Honeycomb fabric filter	
Net weight		kg	156		265		459	
Operating temperature range			Cooling	Heating	Cooling	Heating	Cooling	Heating
			Indoor:10°CWB~25°CWB (Outdoor:-5°CDB~43°CDB)	Indoor:15°CDB~28°CDB (Outdoor:20°CWB~15.5°CWB)	Indoor:10°CWB~25°CWB (Outdoor:-5°CDB~43°CDB)	Indoor:15°CDB~28°CDB (Outdoor:20°CWB~15.5°CWB)	Indoor:10°CWB~25°CWB (Outdoor:-5°CDB~43°CDB)	Indoor:15°CDB~28°CDB (Outdoor:20°CWB~15.5°CWB)

Notes:

1. Cooling/Heating capacity indicates the maximum value at operation under the following conditions.

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

2. The sound pressure level is measured in an anechoic room.
3. Long period operation in a high temperature and humidity atmosphere(dew point of 23°C or more) may cause condensation.
4. Works not included: Installation / foundation work, electric connection work, duct work, insulation work. The power source switch and other items are not specified in the specifications.

Optional parts	Description	Model	Applicable capacity
Indoor unit	Plenum chamber	PAC-CC83PL-E	PFAV-P250VM-E
		PAC-CC85PL-E	PFAV-P500VM-E
		PAC-CC87PL-E	PFAV-P750VM-E
Outdoor unit	Twinning kit	CMY-Y100VBK2	PUHY-P500YSJM-A
		CMY-Y200VBK2	PUHY-P750YSJM-A

PFAV Series

FRESH AIR INTAKE Model

PFAV-P VM-E-F



► Specifications

Model Name		Indoor	PFAV-P300VM-E-F		PFAV-P600VM-E-F		PFAV-P900VM-E-F	
		Outdoor	PUHY-P250YJM-A(-BS)		PUHY-P500YSJM-A(-BS) (PUHY-P250YJM-A(-BS) × 2, CMY-Y100VBK2)		PUHY-P750YSJM-A(-BS) (PUHY-P350YJM-A(-BS) +PUHY-P400YJM-A(-BS), CMY-Y200VBK2)	
Operation			Cooling	Heating	Cooling	Heating	Cooling	Heating
System capacity		kW	28.0 (Maximum 33.5)	26.5 (Maximum 28.0)	56.0 (Maximum 67.0)	50.0 (Maximum 56.0)	80.0 (Maximum 100.0)	71.0 (Maximum 80.0)
System Power input		kW	6.73 / 6.72	7.57 / 7.56	14.69 / 15.05	15.43 / 15.79	22.54 / 22.74	21.43 / 21.63
System current		A	12.6-11.9-11.5 / 12.2-11.5-11.1	14.0-13.3-12.8 / 13.6-12.9-12.4	26.1-24.9-24.0 / 26.2-25.0-24.0	27.4-26.1-25.1 / 27.5-26.2-25.1	40.5-38.5-37.1 / 39.6-37.6-36.2	38.7-36.8-35.5 / 37.8-35.9-34.6
Power source			3-phase 4-wire 380-400-415V (50Hz / 60Hz)		3-phase 4-wire 380-400-415V (50Hz / 60Hz)		3-phase 4-wire 380-400-415V (50Hz / 60Hz)	
Power input		kW	0.37 / 0.36		0.90 / 1.26		1.77 / 1.97	
Current		A	1.9-1.8-1.7 / 1.5-1.4-1.3		2.9-2.8-2.8 / 3.0-2.9-2.8		5.6-5.3-5.1 / 4.7-4.4-4.2	
Fan	Type × Quantity		Sirocco fan × 2		Sirocco fan × 1		Sirocco fan × 1	
	Airflow rate	m ³ / min	45		90		120	
	External static pressure	Pa	80		110 / 170		210 / 330	
	Motor output	kW	1.5		2.2		3.7	
Refrigerant			R410A		R410A		R410A	
External finish			Galvanized steel plate (with polyester coating) <MUNSEL 5Y 8 / 1 or similar>		Galvanized steel plate (with polyester coating) <MUNSEL 5Y 8 / 1 or similar>		Galvanized steel plate (with polyester coating) <MUNSEL 5Y 8 / 1 or similar>	
External dimension H × W × D		mm	1,748 × 1,200 × 485		1,899 × 1,420 × 635		1,860 × 1,750 × 1,064	
Protection devices		Fan motor	Thermal switch		Thermal switch		Thermal switch	
Refrigerant piping diameter	Liquid pipe		9.52 Brazed (12.7 for over 90m)		15.88 Brazed		19.05 Brazed	
	Gas pipe		22.2 Brazed		28.58 Brazed		34.93 Brazed	
Refrigerant piping allowable length		m	165		165		165	
Sound pressure level		dB(A)	48.5		50 / 53		57	
Heat exchanger			Cross fin (Aluminum plate fin and copper tube)		Cross fin (Aluminum plate fin and copper tube)		Cross fin (Aluminum plate fin and copper tube)	
Air filter			Synthetic fiber unwoven cloth filter		Synthetic fiber unwoven cloth filter		PP Honeycomb fabric filter	
Net weight		kg	151		248		437	
Operating temperature range			Cooling Indoor: 15°CWB-35°CWB (Outdoor: 20°CDB-43°CDB)	Heating Indoor: 0°CDB-20°CDB (Outdoor: 4°CWB-15.5°CWB)	Cooling Indoor: 15°CWB-35°CWB (Outdoor: 20°CDB-43°CDB)	Heating Indoor: 0°CDB-20°CDB (Outdoor: 4°CWB-15.5°CWB)	Cooling Indoor: 15°CWB-35°CWB (Outdoor: 20°CDB-43°CDB)	Heating Indoor: 0°CDB-20°CDB (Outdoor: 4°CWB-15.5°CWB)

Notes:

1. Cooling/Heating capacity indicates the maximum value at operation under the following conditions.

	Indoor	Outdoor	Pipe length	Level difference
Cooling	33°CDB/28°CWB (91°FDB/82°F WB)	33°CDB/28°CWB (91°FDB/82°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	7°CDB/3°CWB (45°FDB/37°F WB)	7°CDB/3°CWB (45°FDB/37°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

2. The sound pressure level is measured in an anechoic room.
3. The indoor intake air temperature should be kept more than 0°C.
4. At factory setting, the fan temporary stops in defrosting. Change DIP SW for fan to operate in defrosting.
5. Indoor temperature and humidity cannot be controlled with Fresh air intake type.
6. Works not included: Installation / foundation work, electric connection work, duct work, insulation work. The power source switch and other items are not specified in the specifications.

Optional parts	Description	Model	Applicable capacity
Outdoor unit	Twinning kit	CMY-Y100VBK2	PUHY-P500YSJM-A
		CMY-Y200VBK2	PUHY-P750YSJM-A

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 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,

when the connected indoor units operate simultaneously, each unit's capacity may become smaller than the rated capacity.

- ◆When the unit is started up for the first time within 12 hours after power on or after power failure, it performs initial startup operation (capacity control operation) to prevent damage to the compressor. The initial startup operation requires 90 minutes maximum to complete, depending on the operation load.

1-5. Relevant equipment

- ◆Use an earth leakage breaker (ELB) with medium sensitivity, and an activation speed of 0.1 second or less.
- ◆Consult your local distributor or a qualified technician when installing an earth leakage breaker.
- ◆If the unit is inverter type, select an earth leakage breaker for handling high harmonic waves and surges.
- ◆Leakage current is generated not only through the air conditioning unit but also through the power wires. Therefore, the leakage current of the main power supply is greater than the total leakage current of each unit. Take into consideration the capacity of the earth leakage breaker or leakage alarm when installing one at the main power supply. To measure the leakage current simply on site, use a measurement tool equipped with a filter, and clamp all the four power wires together. The leakage current measured on the ground wire may not accurate because the leakage current from other systems may be included to the measurement value.
- ◆Do not install a phase advancing capacitor on the unit connected to the same power system with an inverter type unit and its equipment.
- ◆If a large current flows due to the product malfunctions or faulty wiring, both the earth leakage breaker on the product side and the upstream overcurrent breaker may trip almost at the same time. Separate the power system or coordinate all the breakers depending on the system's priority level.

1-6. Unit installation

- ◆Your local distributor or a qualified technician must read the Installation Manual that is provided with each unit carefully before performing installation work.
- ◆Consult your local distributor or a qualified technician when installing the unit. Improper installation by an unqualified person may result in water leakage, electric shock, or fire.
- ◆Ensure there is enough space around each unit.

1-7. Optional accessories

- ◆Only use accessories recommended by Mitsubishi Electric. Consult your local distributor or a qualified technician when installing them. Improper installation by an unqualified person may result in water leakage, electric leakage, system breakdown, or fire.
- ◆Some optional accessories may not be compatible with the air conditioning unit to be used or may not suitable for the installation conditions. Check the compatibility when considering any accessories.
- ◆Note that some optional accessories may affect the air conditioner's external form, appearance, weight, operating sound, and other characteristics.

1-8. Operation/Maintenance

- ◆Read the Instruction Book that is provided with each unit carefully prior to use.
 - ◆Maintenance or cleaning of each unit may be risky and require expertise. Read the Instruction Book to ensure safety.
- Consult your local distributor or a qualified technician when special expertise is required such as when the indoor unit needs to be cleaned.

2. Precautions for Indoor unit

2-1. Operating environment

- ◆The refrigerant (R410A) used for air conditioner is non-toxic and nonflammable. However, if the refrigerant leaks, the oxygen level may drop to harmful levels. If the air conditioner is installed in a small room, measures must be taken to prevent the refrigerant concentration from exceeding the safety limit even if the refrigerant should leak.
- ◆If the units operate in the cooling mode at the humidity above 80%, condensation may collect and drip from the indoor units.

2-2. Unit characteristics

- ◆The return air temperature display on the remote controller may differ from the ones on the other thermometers.
- ◆The clock on the remote controller may be displayed with a time lag of approximately one minute every month.
- ◆The temperature using a built-in temperature sensor on the remote controller may differ from the actual room temperature due to the effect of the wall temperature.
- ◆Use a built-in thermostat on the remote controller or a separately-sold thermostat when indoor units installed on or in the ceiling operate the automatic cooling/heating switchover.
- ◆The room temperature may rise drastically due to Thermo OFF in the places where the air conditioning load is large such as computer rooms.
- ◆Be sure to use a regular filter. If an irregular filter is installed, the unit may not operate properly, and the operation noise may increase.
- ◆The room temperature may rise over the preset temperature in the environment where the heating air conditioning load is small.

2-3. Unit installation

- ◆For simultaneous cooling/heating operation type air conditioners (R2, WR2 series), the G-type BC controller cannot be connected to the 16HP outdoor unit model or above, and the G- and GA-type BC controllers cannot be connected to the 28HP model or above. The GB- and HB-type BC controllers (sub) cannot be connected to the outdoor unit directly, and be sure to use them with GA- and HA-type BC controllers (main).
- ◆The insulation for low pressure pipe between the BC controller and outdoor unit shall be at least 20 mm thick. If the unit is installed on the top floor or in a high-temperature, high-humidity environment, thicker insulation may be necessary.
- ◆Do not have any branching points on the downstream of the refrigerant pipe header.
- ◆When a field-supplied external thermistor is installed or when a device for the demand control is used, abnormal stop of the unit or damage of the electromagnetic contactor may occur. Consult your local distributor for details.
- ◆When indoor units operate a fresh air intake, install a filter in the duct (field-supplied) to remove the dust from the air.
- ◆The 4-way or 2-way Airflow Ceiling Cassette Type units that have an outside air inlet can be connected to the duct, but need a booster fan to be installed at site. Refer to the chapter "Indoor Unit" in the Data Book for the available range for fresh air intake volume.
- ◆Operating fresh air intake on the indoor unit may increase the sound pressure level.

3. Precautions for Fresh air intake type indoor unit

3-1. Usage

- ◆ This unit mainly handles the outside air load, and is not designed to maintain the room temperature. Install other air conditioners for handling the air conditioning load in the room.

3-2. Unit characteristics

- ◆ This unit cannot perform the drying operation. The unit will continue the fan operation and blow fresh air (air that is not air-conditioned) when the Heating Thermo-OFF or Cooling Thermo-OFF mode is selected.
- ◆ The fan may stop tentatively when the unit is connected to the simultaneous cooling/heating operation type outdoor unit (R2, WR2 series) or during the defrost cycle.
- ◆ This unit switches the Thermo ON or OFF depending on the room temperature. The outside air is directly supplied into the room during Thermo OFF. Take caution of the cold supply air due to low outside air temperature and of condensation in the room due to high humidity of the outside air.
- ◆ Outside air temperature ranges for the operation must be as follows:
Cooling: 21°C D.B./15.5°C W.B. ~ 43°C D.B./35°C W.B.
Heating: -10°C D.B. ~ 20°C D.B.
The unit is forced to operate Thermo OFF (fan operation) when the outside air temperature is as follows.
Cooling: 21°C D.B. or below; Heating: 20°C D.B. or above
- ◆ Either a remote controller (sold separately) or a remote sensor (sold separately) must be installed to monitor the room temperature.
- ◆ If only this unit is used as an indoor unit, condensation may form at the supply air grill while the unit is operated in the cooling mode. This unit cannot operate dehumidifying.
- ◆ Use the unit in the way that the airflow rate will not exceed the 110% of the rated airflow.

4. Precautions for Outdoor unit/Heat source unit

4-1. Installation environment

- ◆Outdoor unit with salt-resistant specification is recommended to use in a place where it is subject to salt air.
- ◆Even when the unit with salt-resistant specification is used, it is not completely protected against corrosion. Be sure to follow the directions or precautions described in Instructions Book and Installation Manual for installation and maintenance. The salt-resistant specification is referred to the guidelines published by JRAIA (JRA9002).
- ◆Install the unit in a place where the flow of discharge air is not obstructed. If not, the short-cycling of discharge air may occur.
- ◆Provide proper drainage around the unit base, because the condensation may collect and drip from the outdoor units.
Provide water-proof protection to the floor when installing the units on the rooftop.
- ◆In a region where snowfall is expected, install the unit so that the outlet faces away from the direction of the wind, and install a snow guard to protect the unit from snow. Install the unit on a base approximately 50 cm higher than the expected snowfall. Close the openings for pipes and wiring, because the ingress of water and small animals may cause equipment damage. If SUS snow guard is used, refer to the Installation Manual that comes with the snow guard and take caution for the installation to avoid the risk of corrosion.
- ◆When the unit is expected to operate continuously for a long period of time at outside air temperatures of below 0°C, take appropriate measures, such as the use of a unit base heater, to prevent icing on the unit base. (Not applicable to the PUMY series)
- ◆Install the snow guard so that the outlet/inlet faces away from the direction of the wind.
- ◆When the snow accumulates approximately 50 cm or more on the snow guard, remove the snow from the guard. Install a roof that is strong enough to withstand snow loads in a place where snow accumulates.
- ◆Provide proper protection around the outdoor units in places such as schools to avoid the risk of injury.
- ◆A cooling tower and heat source water circuit should be a closed circuit that water is not exposed to the atmosphere.
When a tank is installed to ensure that the circuit has enough water, minimize the contact with outside air so that the oxygen from being dissolved in the water should be 1 mg/L or less.
- ◆Install a strainer (50 mesh or more recommended) on the water pipe inlet on the heat source unit.
- ◆Interlock the heat source unit and water circuit pump.
- ◆Note the followings to prevent the freeze bursting of pipe when the heat source unit is installed in a place where the ambient temperature can be 0°C or below.
 - ◆Keep the water circulating to prevent it from freezing when the ambient temperature is 0°C or below.
 - ◆Before a long period of non use, be sure to purge the water out of the unit.

4-2. Circulating water

- ◆Follow the guidelines published by JRAIA (JRA-GL02-1994) to check the water quality of the water in the heat source unit regularly.
- ◆A cooling tower and heat source water circuit should be a closed circuit that water is not exposed to the atmosphere.
When a tank is installed to ensure that the circuit has enough water, minimize the contact with outside air so that the oxygen from being dissolved in the water should be 1 mg/L or less.

4-3. Unit characteristics

- ◆When the Thermo ON and OFF is frequently repeated on the indoor unit, the operation status of outdoor units may become unstable.

4-4. Relevant equipment

- ◆Provide grounding in accordance with the local regulations.

5. Precautions for Control-related items

5-1. Product specification

- ◆To introduce the MELANS system, a consultation with us is required in advance. Especially to introduce the electricity charge apportioning function or energy-save function, further detailed consultation is required. Consult your local distributor for details.
- ◆Billing calculation for AE-200E, AE-50E, AG-150A, EB-50GU-J, GB-50ADA-J, TG-2000A, or the billing calculation unit is unique and based on our original method. (Backup operation is included.) It is not based on the metering method, and do not use it for official business purposes. It is not the method that the amount of electric power consumption (input) by air conditioner is calculated. Note that the electric power consumption by air conditioner is apportioned by using the ratio corresponding to the operation status (output) for each air conditioner (indoor unit) in this method.
- ◆In the apportioned billing function for AE-200E, AE-50E, AG-150A, EB-50GU-J, and GB-50ADA-J, use separate watthour meters for A-control units, K-control units, and packaged air conditioner for City Multi air conditioners. It is recommended to use an individual watthour meter for the large-capacity indoor unit (with two or more addresses).
- ◆When using the peak cut function on the AE-200E, AE-50E, AG-150A, EB-50GU-J, GB-50ADA-J, note that the control is performed once every minute and it takes time to obtain the effect of the control. Take appropriate measures such as lowering the criterion value. Power consumption may exceed the limits if AE-200E, AE-50E, AG-150A, EB-50GU-J, or GB-50ADA-J, malfunctions or stops. Provide a back-up remedy as necessary.
- ◆The controllers cannot operate while the indoor unit is OFF. (No error)
Turn ON the power to the indoor unit when operating the controllers.
- ◆When using the interlocked control function on the AE-200E, AE-50E, AG-150A, EB-50GU-J, GB-50ADA-J, PAC-YG66DCA, or PAC-YG63MCA, do not use it for the control for the fire prevention or security. (This function should never be used in the way that would put people's lives at risk.) Provide any methods or circuit that allow ON/OFF operation using an external switch in case of failure.

5-2. Installation environment

- ◆The surge protection for the transmission line may be required in areas where lightning strikes frequently occur.
- ◆A receiver for a wireless remote controller may not work properly due to the effect of general lighting. Leave a space of at least 1 m between the general lighting and receiver.
- ◆When the Auto-elevating panel is used and the operation is made by using a wired remote controller, install the wired remote controller to the place where all air conditioners controlled (at least the bottom part of them) can be seen from the wired remote controller. If not, the descending panel may cause damage or injury, and be sure to use a wireless remote controller designed for use with elevating panel (sold separately).
- ◆Install the wired remote controller (switch box) to the place where the following conditions are met.
 - ◆Where installation surface is flat
 - ◆Where the remote controller can detect an accurate room temperature
The temperature sensors that detect a room temperature are installed both on the remote controller and indoor unit. When a room temperature is detected using the sensor on the remote controller, the main remote controller is used to detect a room temperature. In this case, follow the instructions below.
 - ◆Install the controller in a place where it is not subject to the heat source.
(If the remote controller faces direct sunlight or supply air flow direction, the remote controller cannot detect an accurate room temperature.)
 - ◆Install the controller in a place where an average room temperature can be detected.
 - ◆Install the controller in a place where no other wires are present around the temperature sensor.
(If other wires are present, the remote controller cannot detect an accurate room temperature.)
- ◆To prevent unauthorized access, always use a security device such as a VPN router when connecting AE-200E, AE-50E, AG-150A, EB-50GU-J, GB-50ADA-J, or TG-2000A to the Internet.

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)

Table 1. Maintenance cycle

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

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	1 year	5 years
High-performance filter		1 year
Fan belt		5,000 hours
Smoothing capacitor		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.)

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for a greener tomorrow

Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.



The equipments described in this catalogue contain fluorinated gasses such as HFC-410A, HFC-134A and HFC-407C. Installation of those equipment must be executed by professional installer based on EU reg. 842/2006 and 303/2008.