

for a greener tomorrow eco

CITY MULTI

Full Product Lineup Catalogue

CM13WD-K

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.

nverter 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.

ntelligent 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.

R 410A refrigerant

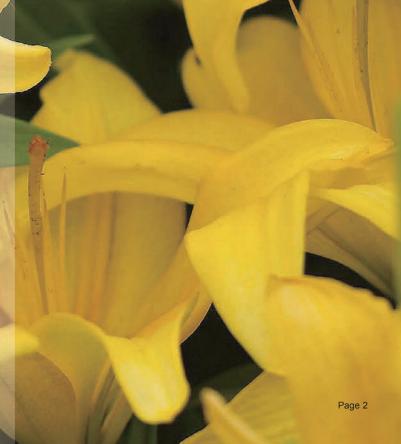
As scientific evidence points to man-made chemicals for the damage caused to the ozone layer, we only use chlorine-free refrigerants that are safe with zero ODP (Ozone Depletion Potential). Accordingly, our systems require less energy to run, and have a significantly lower indirect global warming potential.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

Unsurpassed air conditioning from Mitsubishi Electric

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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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, this range provides ideal solutions you can trust to protect your investment.

PEFY-VMR

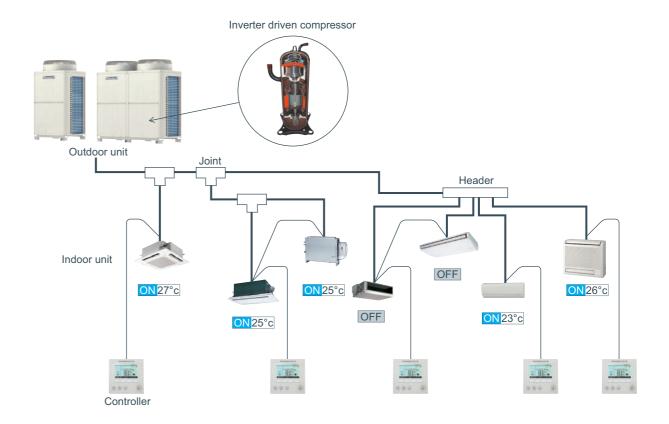
>All the CITY MULTI outdoor units are made in Japan under stringent control.

VRF system

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.





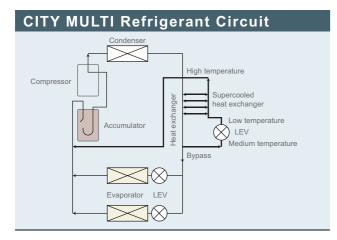
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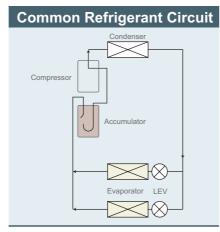


Unbeatable Efficiency

Heat Interchange Circuit

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





nverter Driven Compressor Technology - now up to 50HP





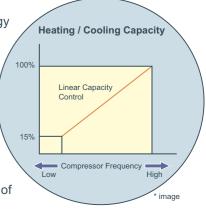
Using inverter driven technology saves energy for several reasons:

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 16HP YJM-A outdoor unit), and smooth transition across the range of compressor frequencies.



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

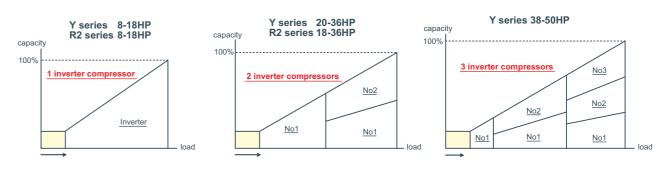
All CITY MULTI compressors are inverter-driven type.

-Capable of precisely matching a building's cooling and heating demands.

The outdoor unit combinations comprise 1 unit for 8-18HP systems (for Y and R2 series), 2 units for 20-36HP systems (for R2, 18-36HP) and 3 units for 38-50HP 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



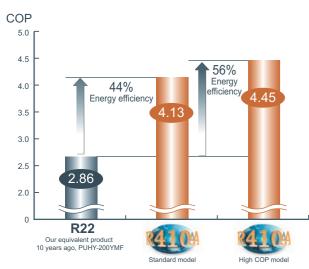


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Total Energy Conservation

Comparison of COP (energy efficiency) – 8HP system



High COP (Coefficient of Performance) is realized

Intelligent Power Module (IPM) Technology

The YJM-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 YJM-A and previous Mitsubishi Electric models

Technology is key when increased efficiency is demanded. The CITY MULTI YJM-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.



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^{*} Average COP of cooling / heating

^{*} The values were obtained under the standard conditions



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

fficient R410A refrigerant



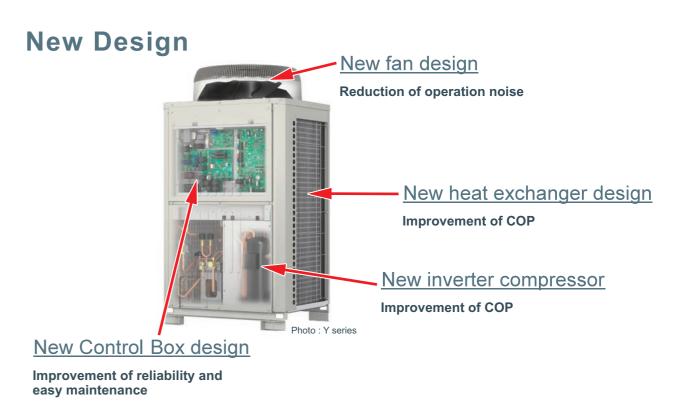
History of refrigerant

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

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

Technical aspects of refrigerant

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



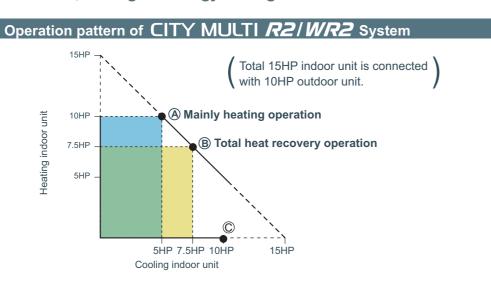


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Affordable & Effective air conditioning you can rely on

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

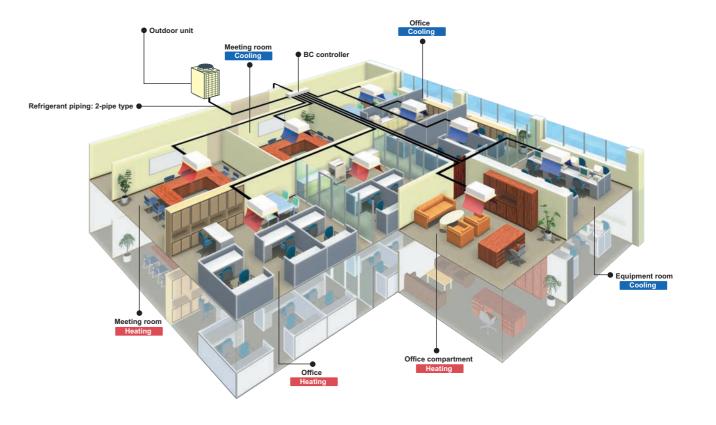


Unique technology

Unique to Mitsubishi Electric, our heat recovery technology uses just two pipes, as opposed to the market conventional three. Designed for effective simultaneous heating and cooling our R2 and WR2 systems offer 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 / WR2 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.





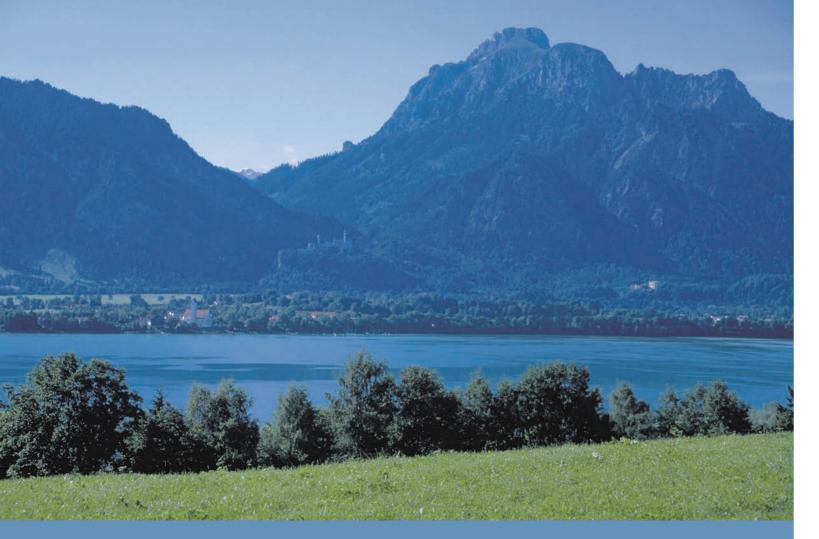






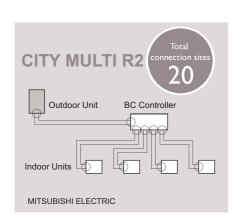


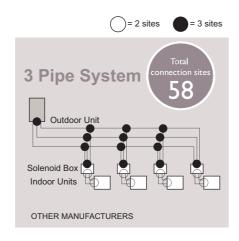
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"2-pipe" system provides Better Efficiency and Performance

Comparison example of piping connection sites





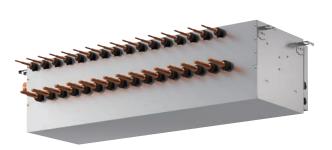
he world's first and the only "2-pipe" system

How does the R2/WR2 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.





2 R2/WR2 refrigerant circuit



of heat exchanger, amounts of heat

BC controller

BC controller div properly in comp each indoor unit.

High pressure gas-liquid 2 phase refrigerant

runit

Wasting 25°C (Soller 23°C Cooller 24°C Coo

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

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

Heating=gas refrigerant Cooling=liquid refrigerant









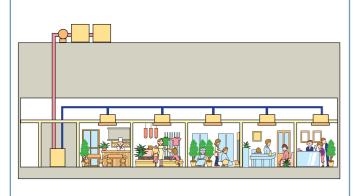


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Water Cooled CITY MULTI Benefits

Water cooled systems are ideally suited for use in temperate and cooler climates since heat exchange with the outside air is not required.



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

Any heat source system that can supply heat source water between 10°C~45°C can be used.

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

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

- Buildings that require all year cooling
- Tenant buildings in which kitchens and offices exist together • Buildings in which equipment rooms and offices exist together
- Buildings in which there are large room temperature differences between sunny and unsunny rooms
- Hotels in which there are a lot of individual operation needs

nergy Saving Technology

What is Water-Cooled?

>A unique offering from Mitsubishi Electric

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

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



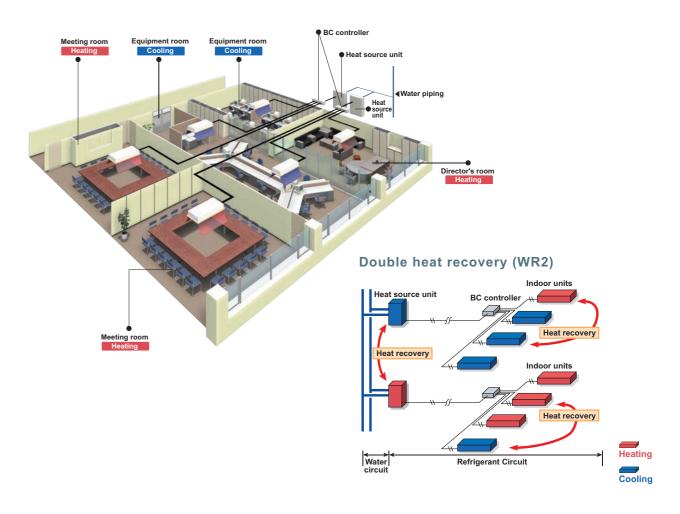
WR2(Heat recovery type)

Mitsubishi Electric now offers double heat recovery operation.

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

The second heat recovery is within the water loop, where heat recovery is performed between the PQRY units.

This double heat recovery operation substantially improves energy efficiency and makes the system the ideal solution to the requirements of modern office buldings, where some areas require cooling even in winter.





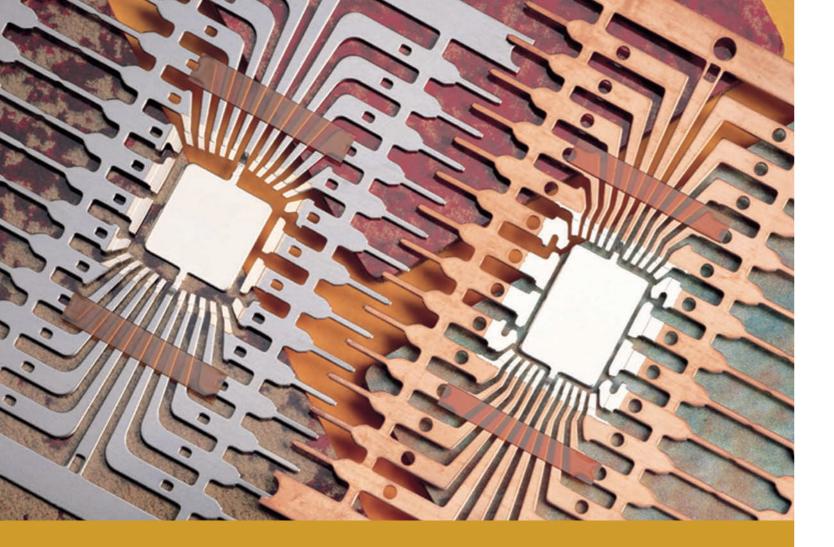




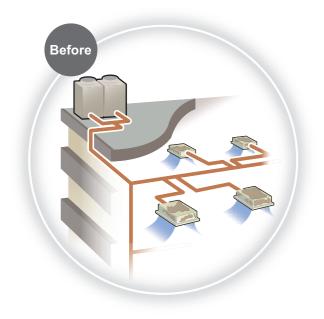


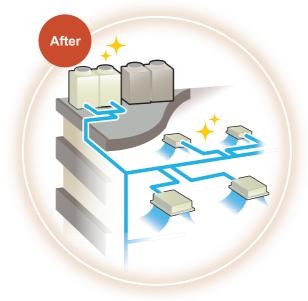


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A solution to renewal demands





Patent Technology

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

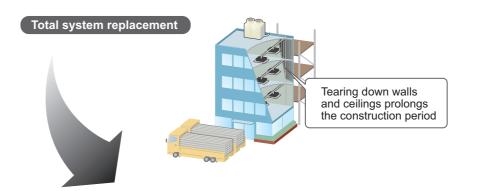
Short and quick replacement

-shorter time -automatically

Renewal

Renew systems for greater performance

-high energy efficiency -wider range and possibility



Keeping the effect on business hours to a minimum















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O utdoor unit

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

Wide Selection of Outdoor Units HP 4.5 5

				HP	4.5			8	10		12						24											46		
System	Туре	Model name		Model	P112	P125	P140	P200	P250		P300	P350	P400	P450	P500	P550	P600	P650	P700	P750	P800	P850	P900	P950	P1000	P1050	P1100	P1150	P1200	P1250
		PUMY-P VKM(-BS) PUMY-P YKM(-BS)			4.5	5	6			1 1 1 1 1 1 1 1 1																				
		Y series		S		<u>.</u>		8	10	 	12				10 10	10 12	10	12						10 12	12 12	12				
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		PUHY-P YSJM-A(-BS)		XL	_	!	!		-	I I I					1											-		18		
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		Y series - High COP		S				8		 	ļ		8 8	8				8 8	8 8	8	8		ļ	ļ	L				<u> </u>	<u> </u>
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Cooled		PUHY-EP YSJM-A1(-BS)		<u> </u>						! ! !	. :		ļ	ļ	1010						12									
		ZUBADAN series				<u>i</u>	<u>i</u>	<u> </u>	i	<u>i</u>	<u>i</u>	<u> </u>		<u>i</u>	1		<u> </u>	<u> </u>				1	<u>i</u>	<u>i</u>		<u>i</u>		i		
		PUHY-HP YHM-A PUHY-HP YSHM-A		*1 S				8	10				88		10 10														1	
		R2 series		S		! 	! 	8	10	I	12				10 10	10 12	12 12	12	12							i				
		PURY-P YJM-A(-BS)		 L						 		14	16	J		J !	J J	14	16	14 16	16 16					 !	!		; !	<u></u>
		PURY-P YSJM-A(-BS)		XL					†	! 	· ·		 	18	·	{	{ 					18	18 18					·	·	i
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Water	Heat Pump	WY series PQHY-P YHM-A PQHY-P YSHM-A						8	10	1 1 1 1 1 1 1 1	12		88	8 10	10 10	10 12	12 12	8810	8 10 10	101010	10 10 12	10 12 12	121212						 	
Cooled	Heat Recovery	WR2 series PQRY-P YHM-A PQRY-P YSHM-A						8	10		12		8 8	8 10	10 10	10 12	12 12													
Air	Heat Pump	REPLACE MULTI Y series PUHY-RP YJM-B PUHY-RP YSJM-B		S				8	10		12	14	8 8	8 10	10 10	10 12	12 12	12 14	8 10 10	10 10 10	10 10 12	10 12 12	12 12 12							
Cooled	Heat Recovery	PURY-RP YJM-B PURY-RP YSJM-B		*1 L				8	10		12																			

^{*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 YJM-A(-BS)
PUHY-P YSJM-A(-BS)

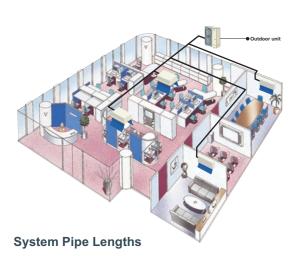
PUHY-EP YJM-A(-BS) PUHY-EP YSJM-A(1)(-BS)

The two-pipe zoned system designed for Heat Pump Operation

The CITY MULTI S 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.

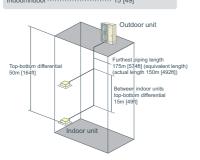
With a wide line-up of indoor units in connection with a flexible piping system, the CITY MULTI series can be configured for all applications. Up to 12 (S series) or 50 (Y series) indoor units can be connected with up to 130% connected capacity to maximize engineer's design options. This feature allows easy air conditioning in each area with convenient individual controllers.

Small Offices (S series)

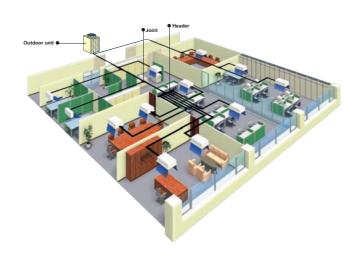


Refrigerant Piping Lengths Total length	Maximum meters [Feet] 300 [984]
Maximum allowable length · · · · · · · ·	
Farthest indoor from first branch····	30 [98]
Vertical differentials between units	Maximum meters [Feet]
Indoor/outdoor (outdoor higher)·····	50 [164]
Indoor/outdoor (outdoor lower)·····	40 [131]

[4.5-6HP (S series)]

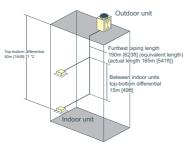


Large Offices (Y series)



	50HP 36HP			Υ	series)]

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



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

R2 (Heat Recovery) series



Simultaneous Cooling and Heating

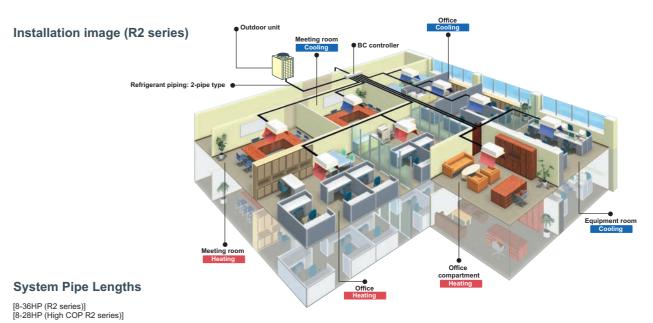
R2 series — PURY-P YJM-A(-BS)
PURY-P YSJM-A(1)(-BS)

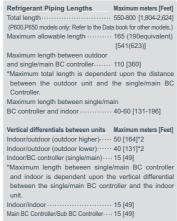
PURY-EP YJM-A(-BS) PURY-EP YSJM-A(1)(-BS)

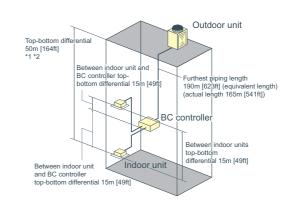
The world's first two-pipe system that Simultaneously Cools and Heats

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







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

Outdoor unit

Outdoor unit



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^{**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.

Y series & R2 series

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

New Lineup Y/R2 series(YJM)



In addition to outdoor unit "S" and "L" module, a new "XL" module is introduced.

The three modular form can be combined to create systems up to 50HP in Y series and up to 36HP in R2 series.

<Y Series-Standard>

HI	P	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50
Capacity	Cooling	22.4	28	33.5	40	45	50	56	63	69	73	80	85	90	96	101	108	113	118	124	130	136	140
Capacity	Heating	25	31.5	37.5	45	50	56	63	69	76.5	81.5	88	95	100	108	113	119.5	127	132	140	145	150	156.5
Module	S module	•	•	•				0 + 0	0 + 0	•	•						0 + 0	0 + 0	•				\Box
	L module				•					•	•	0 + 0	+ +	•				•	0 + 0	0+0+0	0 + 0	0 + 0	
(Pattern 1)	XL module						•									+ +							0 + 0
Madula	S module							+ +		0 + 0													
Module	L module													+									
(Pattern 2)	XL module																						

<R2 Series-Standard>

H	>	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
Capacity	Cooling	22.4	28	33.5	40	45	50	56	63	69	73	80	85	90	96	101
Capacity	Heating	25	31.5	37.5	45	50	56	63	69	76.5	81.5	88	95	100	108	113
Module	S module	•	•	•				+	0 +	+	•					
	L module										•		+	+		
(Pattern 1)	XL module														•	+ +
Madula	S module					+ +	+ +	+		•						
Module	L module									•		+		•		
(Pattern 2)	XL module													•		

Improved performance

Improved heating capacity at low ambient temperature ensures 70% capacity at -15°C [5°F].

Cooling operation range is extended up to 46°C [115°F] from 43°C [109°F] with conventional model.

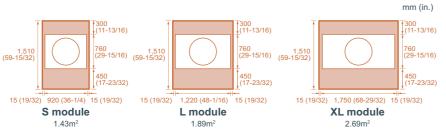
Compact Design Industry leading weight saving

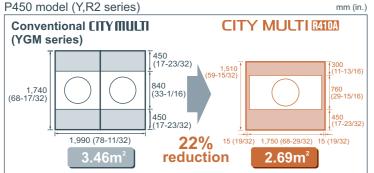
The manageability of the outdoor unit has been improved due to a drastic reduction in its weight, leading to easy transportation, installation, and reduction in withstand load.

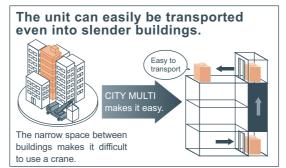
10HP outdoor unit 33kg reduction in weight 230kg PUHY-P250YGM-A 200kg PUHY-P250YJM-A

Effective Use of Space

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







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.



Based on 10HP model

Blue Fin Treatment

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.



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.

nder maintenance In operation

System Check

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

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.

Outdoor unit



Outdoor unit

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ZUBADAN ZUBADAN

Cooling or Heating

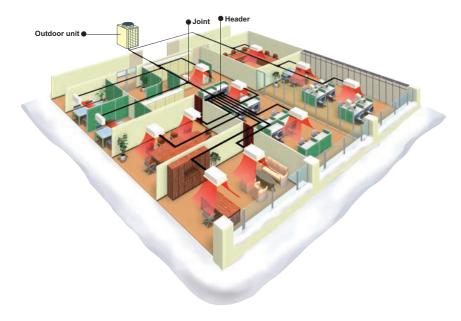
ZUBADAN series — PUHY-HP YHM-A(-BS) PUHY-HP YSHM-A(-BS)

Bringing a year round comfort solutions to extreme climates

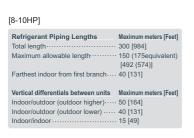
CITY MULTI ZUBADAN series combines the ultimate in application flexibility and powerful cooling and heating capabilities to deliver precise comfort even in the coldest days of the year down to -25°C.

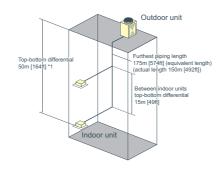
The technology behind this is a Flash Injection circuit which provides optimum amount of refrigerant to the system via a compressor through a specially designed injection port to ensure a particularly stable operation. With this, ZUBADAN can provide a full heating performance even at -15°C and continuous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

Installation image



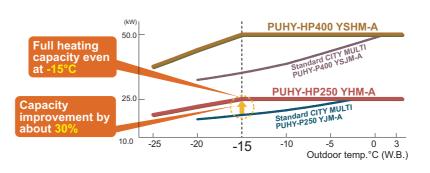
System Pipe Lengths





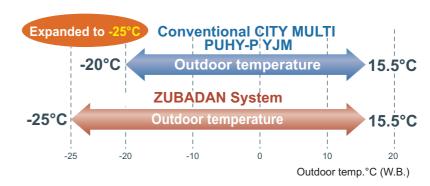
^{*1} When the outdoor unit is installed below the indoor unit, top-bottom differential is 40m [131 ft

Stable Heating Performance even at -15°C

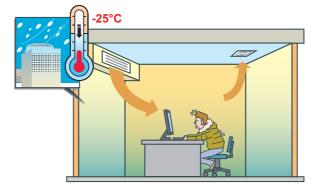


Using an industry first 'Flash-injection Circuit', the ZUBADAN System is able to provide FULL heating performance in ambient temperatures as low as -15°C.

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!

With ZUBADAN System



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



Outdoor unit

adoor drift

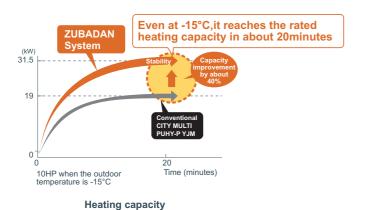
ZUBADAN ZUBADAN

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

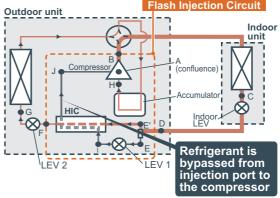
By utilizing our advanced Flash Injection Circuit, the system can not only provide continuous heating for up to 250 minutes in one continuous cycle, but also significantly lessens defrost time to give an exceptionally stable heating operation.

Heating up to 250 min. straigh

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.



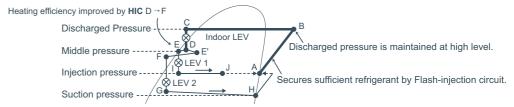
Note: Heat Interchange Circuit (HIC)

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]

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Water Cooled Series

Cooling or Heating

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

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

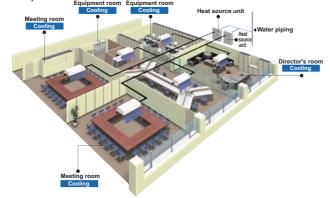
[WY(Heat Pump) series]

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)



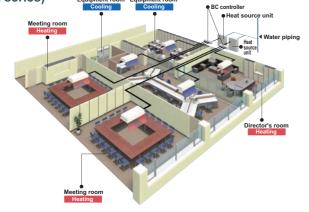
[WR2(Heat Recovery) series]

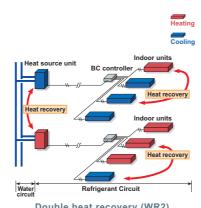
Advanced water heat source unit enjoying the benefits of R2 series

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,

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

Installation image (WR2 series)



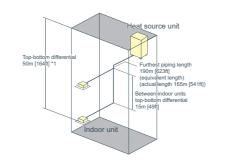


Double heat recovery (WR2)

System Pipe Lengths

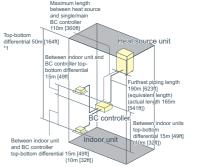
[8-36HP (WY series)]

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



[8-24HP (WR2 series)]

Refrigerant Piping Lengths	Maximum meters [Feet]
Total length (8-12HP)······	
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]
	15 (10) [49 (32)]
Indoor/indoor ·····	



COP comparison (energy efficiency)

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

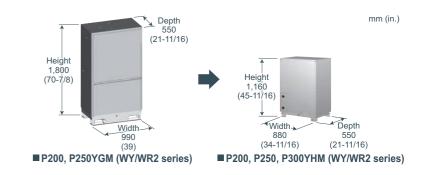
COP comparison

		HP	8	10	12	16	18	20	22	24	26	28	30	32	34	36
	VCM	Cooling	4.68	4.71	-	3.96	-	3.72	-	-	-	-	-	-	-	-
DOLLY	YGM	Heating	4.68	4.71	-	3.96	-	3.72	-	-	-	-	-	-	-	-
PQHY	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
	Y ITIVI	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
	VCM	Cooling	4.68	4.71	-	3.96	-	3.72	-	-	-	-	-	-	-	-
PQRY	YGM	Heating	5.33	5.43	-	4.54	-	4.63	-	-	-	-	-	-	-	-
FURT	YHM	Cooling	5.65	5.08	4.50	5.40	5.03	4.84	4.63	4.41	-	-	-	-	-	-
	I I IIVI	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



Weight saving

The reduction in weight leads to easy transportaion and installation.

Weight	comparis	on														unit : kg
		HP	8	10	12	16	18	20	22	24	26	28	30	32	34	36
DOLLY	YGM		272	275	-	452	-	456	-	-	-	-	-	-	-	-
PQHY	YHM		195	195	195	390	390	390	390	390	585	585	585	585	585	585
DODY	YGM		263	266	-	440	-	444	-	-	-	-	-	-	-	-
PQRY	YHM		121	181	181	362	362	362	362	362	_	_		_	_	_

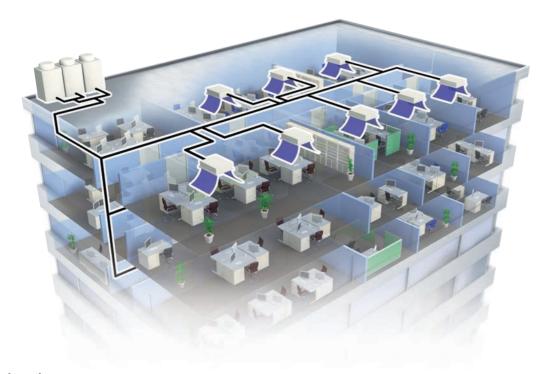
Outdoor unit

Outdoor unit

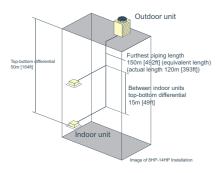
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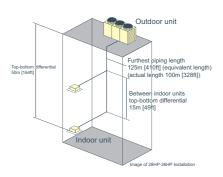
REPLACE MULTI series

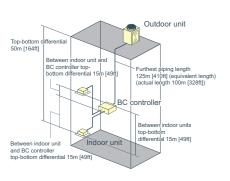




Piping length







[8-22HP (Y series)]

	Maximum meters [Feet] 300 [984]	
	120 [393] equivalent150 [492]	ou 🌳 🌳 ou
Farthest indoor from first branch····	40 [131]* L ₁	L2
*REPLACE MULTI can combine ar multiple system if the length differ farthest indoor from first branch is than 40m.	ence of Section 1	Existing system (L₁-L₂)≤40
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]	
Outdoor/outdoor · · · · · · · · · · · · · · · · · ·		

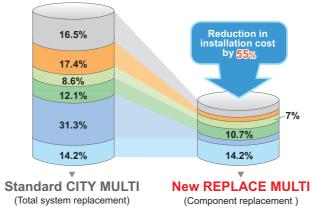
[24-36HP (Y series)]

Refrigerant Piping Lengths Total length Maximum allowable length Farthest indoor from first branch *REPLACE MULTI can combine at multiple system if the length differ farthest indoor from first branch is	n existing ence of	OU
than 40m. Vertical differentials between units Indoor/outdoor (outdoor higher) Indoor/outdoor (outdoor lower) Indoor/indoor Outdoor/outdoor *For models PUHY-RP600-RP900	Maximum meters [Feet] 50 [164] 40 [131] 15 [49] 0.1 [0.3] YSJM-A	

[8-12HP (R2 series)]

Kenigerani riping Lenguis	maximum meters [reet]
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	al 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 vertical differential between the single/	BC controller and indoor is dependent upon the main BC controller and the indoor unit.
Indoor/indoor	15 (10) [49 (32)]*
Main BC Controller/Sub BC Controller···	15 (10) [49 (32)]*
*\/aluga in / \ in applied when indeer tot	al conscitu execude 1200/ of outdoor unit conscitu

Cost



*Estimation based on installation in Japan

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, theses 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

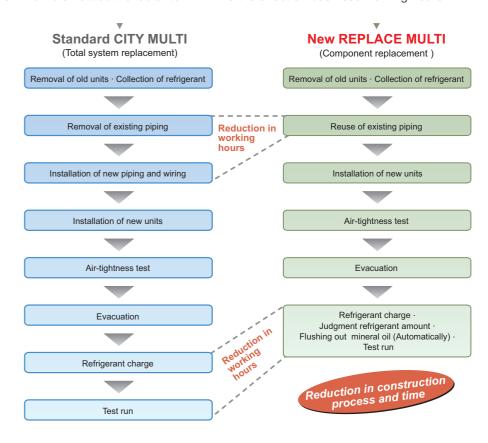
- Costs for electrical work
 Costs for piping work
 Costs for installation work

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.



Outdoor unit

Outdoor unit

Page 33 Page 34 **REPLACE MULTI series REPLACE MULTI series**

Technology

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

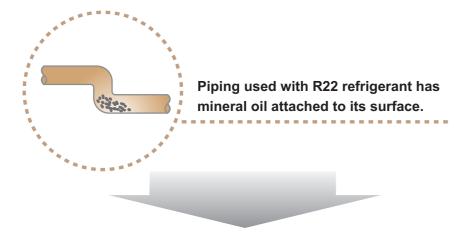
R22

R22 is a single hydrochlorofluorocarbon or HCFC compound known to have ozone depleting potential. R22 has been widely used in Air-Conditioning and Refrigeration equipment; however, virgin R22 refrigerant within the European countries are banned under European legislation driven by the Montreal Protocol.

R410A

R410A is a binary blend of hydrofluorocarbon or HFC compounds with ZERO ozone depleting potential. R410A is a more energy efficient refrigerant than R22 offering a greater heat transfer, which is one of the key elements to stop global warming.

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 cloqqing.

Quick & Automatic

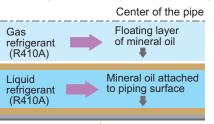
Facts

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

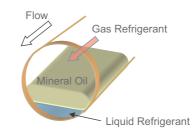
Mineral oil in R22 system is not soluble to the R410 refrigerant. When R410A two phase refrigerant flows through a pipework, shear force among the mineral oil and R410A refrigerant pushes out and strip off from the mineral oil attached to the piping surface. The mineral oil floats on the surface between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

Flushing operation (sectional view)



♠ Refrigerant pipe wall

Flushing operation



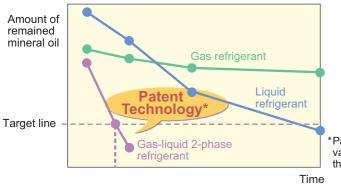
If the refrigerant is 2 phase, liquid refrigerant speed is accelerated by the gas refrigerant flowing at high-speed in the center part of the pipeworks. With this acceleration, the mineral oil floating at the surface of liquid refrigerant also increases its speed and mineral oil collection can be finished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

REPLACE MULTI series

REPLACE MULTI series

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

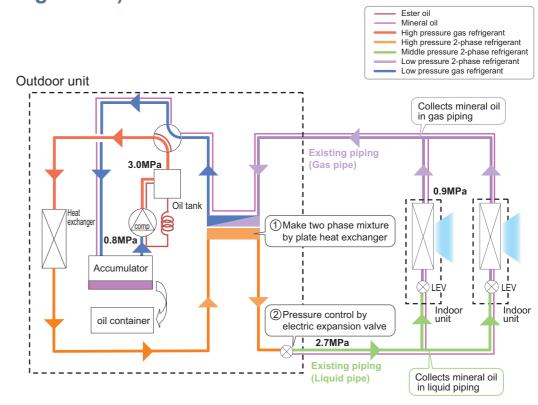
Mineral oil collection flow

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

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

► Specifications

Model			PUMY-P112VKM(-BS)	PUMY-P125VKM(-BS)	PUMY-P140VKM(-BS)
Power source			1-phase 220-240V 50Hz	1-phase 220-240V 50Hz	1-phase 220-240V 50Hz
Cooling capacity	*1	kW	12.5	14.0	15.5
(Nominal)	*1	BTU / h	42.700	47.800	52.900
,	Power input	kW	2.79	3.46	4.52
	Current input	Α	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	Indoor temp.	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
cooling	Outdoor temp.	D.B.	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)
Heating capacity	*2		14.0	16.0	18.0
(Nominal)	*2	BTU / h	47.800	54,600	61.400
,	Power input	kW	3.04	3.74	4.47
	Current input	Α	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	Indoor temp.	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)
heating	Outdoor temp.	W.B.	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)
Indoor unit	Total capacity		50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity
connectable	Model / Quantity		P15~P140 / 9	P15~P140 / 10	P15~P140 / 12
Sound pressure le (measured in ane	vel	dB <a>	49 / 51	50 / 52	51 / 53
Refrigerant piping	Liquid pipe	mm (in.)	9.52(3/8) Flare	9.52(3/8) Flare	9.52(3/8) Flare
diameter	Gas pipe	mm (in.)	15.88(5/8) Flare	15.88(5/8) Flare	15.88(5/8) Flare
FAN	Type x Quantity		Propeller Fan x 2	Propeller Fan x 2	Propeller Fan x 2
	Air flow rate	m³/min	110	110	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 dimensio	n HxWxD	mm	1,338 x 1,050 x 330 (+25)	1,338 x 1,050 x 330 (+25)	1,338 x 1,050 x 330 (+25)
		in.	52-11/16 x 41-11/32 x 13 (+1)	52-11/16 x 41-11/32 x 13 (+1)	52-11/16 x 41-11/32 x 13 (+1)
Protection	High pressure pre	otection	High pressure Switch	High pressure Switch	High pressure Switch
devices	Inverter circuit (CO	MP./FAN)	Overcurrent detection, Overheat detection (Heatsink thermistor)	Overcurrent detection, Overheat detection (Heatsink thermistor)	Overcurrent detection, Overheat detection (Heatsink thermistor)
	Compressor		Compressor thermistor, Over current detection	Compressor thermistor, Over current detection	Compressor thermistor, Over current detection
Fan motor			Overheating, Voltage protection	Overheating, Voltage protection	Overheating, Voltage protection
Refrigerant Type x original 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	I		Reversed refrigerant circuit	Reversed refrigerant circuit	Reversed refrigerant circuit
Optional parts			Joint: CMY-Y62-G-E	Joint: CMY-Y62-G-E	Joint: CMY-Y62-G-E
			Header: CMY-Y64/68-G-E	Header: CMY-Y64/68-G-E	Header: CMY-Y64/68-G-E

Notes:

*1,*2 Nominal conditions

٠,	2 Normal Conditions								
		Indoor	Indoor Outdoor Pi		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.

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

► Specifications

Power source Cooling capacity (Nominal)	*1		PUMY-P112YKM(-BS)	PUMY-P125YKM(-BS)	PUMY-P140YKM(-BS)
(Nominal)	*1		3-phase 380-415V 50Hz	3-phase 380-415V 50Hz	3-phase 380-415V 50Hz
(Nominal)		kW	12.5	14.0	15.5
	*1	BTU / h	42.700	47.800	52.900
L	Power input	kW	2.79	3.46	4.52
	Current input	A	4.46-4.24-4.09	5.53-5.26-5.07	7.23-6.87-6.62
		kW / kW	4.48	4.05	3.43
	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	*2	kW	14.0	16.0	18.0
(Nominal)	*2	BTU / h	47,800	54,600	61,400
	Power input	kW	3.04	3.74	4.47
	Current input	A	4.86-4.62-4.45	5.98-5.68-5.48	7.15-6.79-6.55
		kW / kW	4.61	4.28	4.03
	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)
	Total capacity	VV.D.	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 lev			F13-F14079	F 13-F 1407 10	F 13 -F 1407 12
(measured in anec		dB <a>	49 / 51	50 / 52	51 / 53
Refrigerant piping	Liquid pipe	mm (in.)	9.52(3/8) Flare	9.52(3/8) Flare	9.52(3/8) Flare
diameter	Gas pipe	mm (in.)	15.88(5/8) Flare	15.88(5/8) Flare	15.88(5/8) Flare
FAN	Type x Quantity		Propeller Fan x 2	Propeller Fan x 2	Propeller Fan x 2
	Air flow rate	m³/min	110	110	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	n HxWxD	mm	1,338 x 1,050 x 330 (+25)	1,338 x 1,050 x 330 (+25)	1,338 x 1,050 x 330 (+25)
		in.	52-11/16 x 41-11/32 x 13 (+1)	52-11/16 x 41-11/32 x 13 (+1)	52-11/16 x 41-11/32 x 13 (+1)
Protection	High pressure pro	otection	High pressure Switch	High pressure Switch	High pressure Switch
devices	Inverter circuit (COI	MP./FAN)	Overcurrent detection, Overheat detection (Heatsink thermistor)	Overcurrent detection, Overheat detection (Heatsink thermistor)	Overcurrent detection, Overheat detection (Heatsink thermistor)
-	Compressor		Compressor thermistor, Over current detection	Compressor thermistor, Over current detection	Compressor thermistor, Over current detection
-	Fan motor		Overheating, Voltage protection	Overheating, Voltage protection	Overheating, Voltage protection
Refrigerant Type x original charge		R410A 4.8kg	R410A 4.8kq	R410A 4.8kg	
Net weight	1 JPC A Original Cil	kg (lbs)	125(276)	125(276)	125(276)
Heat exchanger		rg (IDS)	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	Joint: CMY-Y62-G-E	Joint: CMY-Y62-G-E
Optional parts			Header: CMY-Y64/68-G-E	Header: CMY-Y64/68-G-E	Header: CMY-Y64/68-G-E

Notes:

*1,*2 Nominal condition

٠,	2 Normal Conditions								
		Indoor	Indoor Outdoor Pi		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.



Outdoor unit

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

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

OUTDOOR UNIT Y Series **PUHY-P YJM-A(-BS)**

► Specifications

Model			PUHY-P200YJM-A(-BS)	PUHY-P250YJM-A(-BS)	PUHY-P300YJM-A(-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	*1	kW	22.4	28.0	33.5
(Nominal)	*1	BTU / h	76,400	95,500	114,300
	Power input	kW	5.62	7.40	9.00
	Current input	Α	9.4-9.0-8.6	12.4-11.8-11.4	15.1-14.4-13.9
	EER	kW / kW	3.98	3.78	3.72
Temp. range of	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
cooling	Outdoor	D.B.	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)
Heating capacity	*2	kW	25.0	31.5	37.5
(Nominal)	*2	BTU / h	85.300	107,500	128,000
,	Power input	kW	5.84	7.34	9.25
	Current input	Α	9.8-9.3-9.0	12.3-11.7-11.3	15.6-14.8-14.2
	COP	kW / kW	4.28	4.29	4.05
Temp. range of	Indoor	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)
heating	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)
Indoor unit	Total capacity		50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity
connectable	Model / Quantity		P15~P250 / 1~17	P15~P250 / 1~21	P15~P250 / 1~26
Sound pressure le	vel				
(measured in aned	choic room)	dB <a>	56	58	59
Power pressure le	vel				
(measured in aned		dB <a>	76	78	79
Refrigerant piping	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)
diameter		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	170	170	170
		L/s	2.833	2.833	2,833
		cfm	6,003	6,003	6,003
	Driving mechanis		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
	Motor output	kW	0.46 x 1	0.46 x 1	0.46 x 1
*3	External static pre		0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	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	5.4	6.8	7.7
	Case heater	kW	0.035	0.035	0.045
External finish	1		Pre-coated galvanized steel sheets	Pre-coated galvanized steel sheets	Pre-coated galvanized steel sheets
			(+powder coating for -BS type)	(+powder coating for -BS type)	(+powder coating for -BS type)
			<munsell 1="" 5y="" 8="" or="" similar=""></munsell>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>
External dimensio	n HxWxD	mm	1,710(1,650 without legs) x 920 x 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 High pressure pro			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)
devices	Inverter circuit (CO	MP./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			Over-heat protection	Over-heat protection	Over-heat protection
			Thermal switch	Thermal switch	Thermal switch
		arge	R410A x 6.5kg (15lbs)	R410A x 8.0kg (18lbs)	R410A x 8.0kg (18lbs)
Net weight		kg (lbs)	190(419)	200(441)	215(474)
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	Joint: CMY-Y102SS-G2	Joint: CMY-Y102SS-G2
			Header: CMY-Y104/108/1010-G	Header: CMY-Y104/108/1010-G	Header: CMY-Y104/108/1010-G

Notes:

,	2 11011111101 001101110				
		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.)

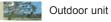
OUTDOOR UNIT Y Series **PUHY-P YJM-A(-BS)**

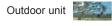
► Specifications

Model			PUHY-P350YJM-A(-BS)	PUHY-P400YJM-A(-BS)	PUHY-P450YJM-A(-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	*1	kW	40.0	45.0	50.0
(Nominal)	*1	BTU / h	136,500	153,500	170,600
()	Power input	kW	11.01	13.11	15.47
	Current input	A	18.5-17.6-17.0	22.1-21.0-20.2	26.1-24.8-23.9
	EER	kW / kW	3.63	3.43	3.23
Temp. range of	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
cooling	Outdoor	D.B.	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)
Heating capacity	*2		45.0	50.0	56.0
(Nominal)	_	BTU / h	153.500	170.600	191.100
(I tollillial)	Power input	kW	11.19	12.82	14.62
	Current input	A	18.8-17.9-17.2	21.6-20.5-19.8	24.6-23.4-22.5
	COP	kW / kW	4.02	3.90	3.83
Temp. range of	Indoor	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)
heating	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)
Indoor unit	Total capacity	VV.D.	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity
connectable	Model / Quantity		P15~P250 / 1~30	P15~P250 / 1~34	P15~P250 / 1~39
Sound pressure le			F15~F25071~30	F15~F25071~34	F15~F25071~39
(measured in aned	choic room)	dB <a>	60	61	62
Power pressure le (measured in anec		dB <a>	80	81	82
Refrigerant piping	Liquid pipe	mm (in.)	12.7(1/2) Brazed	12.7(1/2) Brazed	15.88(5/8) Brazed
diameter	Gas pipe	mm (in.)	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 2
	Air flow rate m³/mi		210	210	370
		L/s	3.500	3.500	6.167
		cfm	7.415	7.415	13.065
	Driving mechanism		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
	Motor output kW		0.46 x 1	0.46 x 1	0.46 x 2
*3	External static press.		0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	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	9.9	10.1	11.6
	Case heater	kW	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>
External dimension	n HxWxD	mm	1,710(1,650 without legs) x 1,220 x 760	1,710(1,650 without legs) x 1,220 x 760	1,710(1,650 without legs) x 1,750 x 760
in.		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 68-15/16 x 29-15/16
Protection	High pressure pro	otection	High pressure sensor, High pressure switch at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)
devices	Inverter circuit (CO	MP./FAN)	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection
	Fan motor		Thermal switch	Thermal switch	Thermal switch
Refrigerant	Type x original ch	narge	R410A x 11.5kg (26lbs)	R410A x 11.5kg (26lbs)	R410A x 11.8kg (27lbs)
Net weight		kg (lbs)	250(552)	250(552)	290(640)
Heat exchanger		. 3 (/	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		
- p p			Header: CMY-Y104/108/1010-G	Header: CMY-Y104/108/1010-G	Header: CMY-Y104/108/1010-G

Notes:

٠,	2 1101111101 00110100				
		Indoor	Indoor Outdoor		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.)





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^{*3} External static pressure option is available (30Pa, $60Pa/3.1mmH_2O$), $6.1mmH_2O$). *Nominal condition *1,*2 are subject to JIS B8615-1. *Due to continuing improvement, above specification may be subject to change without notice.

^{*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 Series PUHY-P YSJM-A(1)(-BS)

► Specifications



Model		PUHY-P500YSJM-A(-BS)	PUHY-P500YSJM-A1(-BS)	PUHY-P550YSJM-A(-BS)	PUHY-P600YSJM-A1(-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	
3 - 1 - 3		kW	56.0	56.0	63.0	69.0
(Nominal)	*1	BTU / h	191,100	191,100	215,000	235,400
	Power input	kW	15.38	15.05	17.16	19.00
	Current input	Α	25.9-24.6-23.7	25.4-24.1-23.2	28.9-27.5-26.5	32.0-30.4-29.3
	EER	kW / kW	3.64	3.72	3.67	3.63
Temp. range of	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
cooling	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	*2	kW	63.0	63.0	69.0	76.5
(Nominal)	*2	BTU / h	215,000	215,000	235,400	261,000
	Power input	kW	15.03	15.51	16.87	19.26
	Current input	Α	25.3-24.1-23.2	26.1-24.8-23.9	28.4-27.0-26.0	32.5-30.8-29.7
	COP	kW / kW	4.19	4.06	4.09	3.97
Temp. range of	Indoor	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)
heating	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)
Indoor unit	Total capacity		50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity
connectable	Model / Quantity		P15~P250 / 1~43	P15~P250 / 1~43	P15~P250 / 1~47	P15~P250 / 1~50
Sound pressure le		dB <a>	61	61	61.5	62
(measured in anechoic room)		01	01	01.0	02	
(measured in anechoic room)		dB <a>	81	81	81.5	82
		ub A	01	01	01.5	02
Refrigerant piping	Liquid pipe	mm (in.)	15.88(5/8) Brazed	15.88(5/8) Brazed	15.88(5/8) Brazed	15.88(5/8) Brazed
diameter	Gas pipe	mm (in.)	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed
Set Model						

Set Model	·									
Model			PUHY- P250YJM-A(-BS)		PUHY- P200YJM-A(-BS)	PUHY- P300YJM-A(-BS)	PUHY- P250YJM-A(-BS)	PUHY- P300YJM-A(-BS)	PUHY- P300YJM-A(-BS)	PUHY- P300YJM-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	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m³/min	170	170	170	170	170	170	170	170
		L/s	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833
		cfm	6,003	6,003	6,003	6,003	6,003	6,003	6,003	6,003
	Driving mechanis	sm	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	rect-driven by motor	Inverter-control, Di	rect-driven by motor	Inverter-control, Dir	ect-driven by motor
	Motor output	kW	0.46 x 1	0.46 x 1	0.46 x 1	0.46 x 1	0.46 x 1	0.46 x 1	0.46 x 1	0.46 x 1
*3	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	rmetic compressor	Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	6.8	6.8	5.4	7.7	6.8	7.7	7.7	7.7
	Case heater	kW	0.035	0.035	0.035	0.045	0.035	0.045	0.045	0.045
External finish			(+powder coati	nized steel sheets ng for -BS type) ' 8/1 or similar>	(+powder coati	nized steel sheets ng for -BS type) ' 8/1 or similar>	(+powder coati	nized steel sheets ng for -BS type) / 8/1 or similar>	Pre-coated galvar (+powder coatii <munsell 5y<="" td=""><td></td></munsell>	
External dimension	n 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
		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	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 pr	otection	High pressure sen switch at 4.15	sor, High pressure MPa (601 psi)		isor, High pressure iMPa (601 psi)		nsor, High pressure 5MPa (601 psi)	High pressure sen switch at 4.15	sor, High pressure MPa (601 psi)
	Inverter circuit (CO	MP./FAN)	Over-heat protection,	Over-current protection	Over-heat protection,	Over-current protection	Over-heat protection,	Over-current protection	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	Thermal switch	Thermal switch	Thermal switch	Thermal switch
Refrigerant	Type x original ch	narge	R410A x 8.0kg (18lbs)	R410A x 8.0kg (18lbs)	R410A x 6.5kg (15lbs)	R410A x 8.0kg (18lbs)	R410A x 8.0kg (18lbs)	R410A x 8.0kg (18lbs)	R410A x 8.0kg (18lbs)	R410A x 8.0kg (18lbs)
Net weight		kg (lbs)	200(441)	200(441)	190(419)	215(474)	200(441)	215(474)	215(474)	215(474)
Heat exchanger		Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube	
Pipe between unit	Liquid pipe	mm (in.)	9.52(3/8) Brazed	9.52(3/8) Brazed	9.52(3/8) Brazed	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
and distributor	Gas pipe	mm (in.)	22.2(7/8) Brazed	22.2(7/8) Brazed	19.05(3/4) 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 k	it: CMY-Y100VBK2	Outdoor Twinning I	kit: CMY-Y100VBK2	Outdoor Twinning I	kit: CMY-Y100VBK2	Outdoor Twinning k	it: CMY-Y100VBK2
				102SS/LS-G2, '202S-G2		102SS/LS-G2, '202S-G2		102SS/LS-G2, 202S/302S-G2	Joint: CMY-Y:	102SS/LS-G2, 202S/302S-G2
			Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-G

Notes:

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

^{*3} External static pressure option is available (30Pa, $60Pa/3.1mmH_2O$), $6.1mmH_2O$). *Nominal condition *1,*2 are subject to JIS B8615-1. *Due to continuing improvement, above specification may be subject to change without notice.

OUTDOOR UNIT Y Series PUHY-P YSJM-A(1)(-BS)



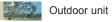
► Specifications

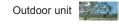
Model			PUHY-P600YSJM-A(-BS)	PUHY-P650YSJM-A(-BS)	PUHY-P700YSJM-A1(-BS)
Power source			3-phase 4-wire 380-400-415V 50/60Hz	3-phase 4-wire 380-400-415V 50/60Hz	3-phase 4-wire 380-400-415V 50/60Hz
Cooling capacity	*1	kW	69.0	73.0	80.0
(Nominal)	*1	BTU / h	235,400	249,100	273,000
	Power input	kW	18.75	20.39	23.05
	Current input	Α	31.6-30.0-28.9	34.4-32.7-31.5	38.9-36.9-35.6
	EER	kW / kW	3.68	3.58	3.47
Temp. range of	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
cooling	Outdoor	D.B.	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)
Heating capacity	*2	kW	76.5	81.5	88.0
(Nominal)	*2	BTU / h	261,000	278,100	300,300
	Power input	kW	18.88	20.47	23.09
	Current input	Α	31.8-30.2-29.1	34.5-32.8-31.6	38.9-37.0-35.6
	COP	kW / kW	4.05	3.98	3.81
Temp. range of	Indoor	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)
heating	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)
Indoor unit	Total capacity		50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity
connectable	Model / Quantity		P15~P250 / 1~50	P15~P250 / 1~50	P15~P250 / 1~50
Sound pressure le		dB <a>	62	62.5	63
(measured in ane	choic room)	UD VAP	02	02.3	
Power pressure le		dB <a>	82	82.5	83
(measured in ane					
Refrigerant piping		mm (in.)	15.88(5/8) Brazed	15.88(5/8) Brazed	19.05(3/4) Brazed
diameter	Gas pipe	mm (in.)	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed	34.93(1-3/8) Brazed
Set Model					

Set Model									
Model			PUHY- P250YJM-A(-BS)	PUHY- P350YJM-A(-BS)	PUHY- P300YJM-A(-BS)	PUHY- P350YJM-A(-BS)	PUHY- P300YJM-A(-BS)	PUHY- P400YJM-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	170	210	170	210	170	210	
		L/s	2,833	3,500	2,833	3,500	2,833	3,500	
		cfm	6,003	7,415	6,003	7,415	6,003	7,415	
	Driving mechanis	sm	Inverter-control, Dir	rect-driven by motor	Inverter-control, Di	rect-driven by motor	Inverter-control, Dir	ect-driven by motor	
	Motor output	kW	0.46 x 1	0.46 x 1	0.46 x 1	0.46 x 1	0.46 x 1	0.46 x 1	
*3	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	6.8	9.9	7.7	9.9	7.7	10.1	
	Case heater	kW	0.035	0.045	0.045	0.045	0.045	0.045	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>		(+powder coati	nized steel sheets ng for -BS type) ' 8/1 or similar>	(+powder coati	nized steel sheets ng for -BS type) ' 8/1 or similar>	
External dimension	n HxWxD	mm	1,710(1,650 without legs) x 920 x 760	1,710(1,650 without legs) x 1,220 x 760	1,710(1,650 without legs) x 920 x 760	1,710(1,650 without legs) x 1,220 x 760	1,710(1,650 without legs) x 920 x 760	1,710(1,650 without leg x 1,220 x 760	
		in.	67-3/8(65 without legs) x 36-1/4 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 36-1/4 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 36-1/4 x 29-15/16	67-3/8(65 without legs x 48-1/16 x 29-15/16	
Protection devices	High pressure pr	otection		High pressure switch (601 psi)		High pressure switch (601 psi)	High pressure sensor at 4.15MP	High pressure switch (601 psi)	
	Inverter circuit (CC	MP./FAN)	Over-heat protection,	Over-current protection	Over-heat protection,	Over-current protection	Over-heat protection,	Over-current protection	
	Compressor		Over-heat	protection	Over-heat	protection	Over-heat	protection	
	Fan motor		Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	
Refrigerant	Type x original c	harge	R410A x 8.0kg (18lbs)	R410A x 11.5kg (26lbs)	R410A x 8.0kg (18lbs)	R410A x 11.5kg (26lbs)	R410A x 8.0kg (18lbs)	R410A x 11.5kg (26lbs	
Net weight		kg (lbs)	200(441)	250(552)	215(474)	250(552)	215(474)	250(552)	
Heat exchanger			Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube	
Pipe between unit	Liquid pipe	mm (in.)	9.52(3/8) Brazed	12.7(1/2) Brazed	12.7(1/2) Brazed	12.7(1/2) Brazed	12.7(1/2) Brazed	15.88(5/8) Brazed	
and distributor	Gas pipe	mm (in.)	22.2(7/8) Brazed	28.58(1-1/8) Brazed	22.2(7/8) Brazed	28.58(1-1/8) Brazed	22.2(7/8) Brazed	28.58(1-1/8) Braze	
Optional parts		·	Outdoor Twinning I	kit: CMY-Y100VBK2	Outdoor Twinning I	kit: CMY-Y100VBK2	Outdoor Twinning I	kit: CMY-Y200VBK2	
•				102SS/LS-G2, 202S/302S-G2		102SS/LS-G2, 202S/302S-G2		Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2	
			Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-G	

Notes:

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		Indoor	Indoor Outdoor		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.)	





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^{*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 Series

PUHY-P YSJM-A(1)(-BS)

► Specifications



Model			PUHY-P700YSJM-A(-BS)	PUHY-P750YSJM-A(-BS)	PUHY-P800YSJM-A1(-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	*1	kW	80.0	85.0	90.0
(Nominal) *1		BTU / h	273,000	290,000	307,100
	Power input	kW	22.47	24.70	26.86
	Current input	Α	37.9-36.0-34.7	41.6-39.6-38.1	45.3-43.0-41.5
	EER	kW / kW	3.56	3.44	3.35
Temp. range of	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
cooling	Outdoor	D.B.	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)
Heating capacity	*2	kW	88.0	95.0	100.0
(Nominal)	*2	BTU / h	300,300	324,100	341,200
	Power input	kW	22.27	24.67	27.02
	Current input A		37.5-35.7-34.4	41.6-39.5-38.1	45.6-43.3-41.7
	COP	kW / kW	3.95	3.85	3.70
Temp. range of	Indoor	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)
heating	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)
Indoor unit	Total capacity		50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity
connectable	Model / Quantity		P15~P250 / 1~50	P15~P250 / 1~50	P15~P250 / 1~50
Sound pressure le (measured in aned		dB <a>	63	63.5	64
Power pressure level (measured in anechoic room)		dB <a>	83 83.5		84
Refrigerant piping	Liquid pipe	mm (in.)	19.05(3/4) Brazed 19.05(3/4) Brazed		19.05(3/4) Brazed
diameter	Gas pipe	mm (in.)	34.93(1-3/8) Brazed	34.93(1-3/8) Brazed	34.93(1-3/8) Brazed
Set Model					

Model Model			PUHY- P350YJM-A(-BS)		PUHY- P350YJM-A(-BS)	PUHY- P400YJM-A(-BS)	PUHY- P400YJM-A(-BS)	PUHY- P400YJM-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	210	210	210	210	210	210
		L/s	3,500	3,500	3,500	3,500	3,500	3,500
		cfm	7,415	7,415	7,415	7,415	7,415	7,415
	Driving mechanis	sm	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	rect-driven by motor	Inverter-control, Dir	rect-driven by motor
	Motor output	kW	0.46 x 1	0.46 x 1	0.46 x 1	0.46 x 1	0.46 x 1	0.46 x 1
*3	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	9.9	9.9	9.9	10.1	10.1	10.1
	Case heater	kW	0.045	0.045	0.045	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>	
External dimensio	n 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	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	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 pr	otection		High pressure switch a (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 (CC	MP/FAN)		Over-current protection				Over-current protection
	Compressor			protection	Over-heat protection			protection
	Fan motor		Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch
Refrigerant	Type x original cl	narge	R410A x 11.5kg (26lbs)	R410A x 11.5kg (26lbs)	R410A x 11.5kg (26lbs)	R410A x 11.5kg (26lbs)		R410A x 11.5kg (26lbs)
Net weight		kg (lbs)	250(552)	250(552)	250(552)	250(552)	250(552)	250(552)
Heat exchanger			Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube
Pipe between unit	Liquid pipe	mm (in.)	12.7(1/2) Brazed	12.7(1/2) Brazed	12.7(1/2) Brazed	15.88(5/8) Brazed	15.88(5/8) Brazed	15.88(5/8) Brazed
and distributor	Gas pipe	mm (in.)	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed
Optional parts			Outdoor Twinning I	it: CMY-Y200VBK2	Outdoor Twinning I	kit: CMY-Y200VBK2	Outdoor Twinning I	kit: CMY-Y200VBK2
			Joint: CMY-Y		Joint: CMY-Y			102SS/LS-G2,
				202S/302S-G2		202S/302S-G2		202S/302S-G2
			Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-G

Notes:

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

^{*3} External static pressure option is available (30Pa, $60Pa/3.1mmH_2O$), $6.1mmH_2O$). *Nominal condition *1,*2 are subject to JIS B8615-1. *Due to continuing improvement, above specification may be subject to change without notice.

OUTDOOR UNIT Y Series **PUHY-P YSJM-A** (-BS)





► Specifications

Model			PUHY-P800YSJM-A(-BS)	PUHY-P850YSJM-A(-BS)	PUHY-P900YSJM-A(-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	*1	kW	90.0	96.0	101.0
(Nominal)	*1	BTU / h	307,100	327,600	344,600
	Power input	kW	27.10	29.62	32.06
	Current input	Α	45.7-43.4-41.8	50.0-47.5-45.7	54.1-51.4-49.5
	EER	kW / kW	3.32	3.24	3.15
Temp. range of	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
cooling	Outdoor	D.B.	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)
Heating capacity	*2	kW	100.0	108.0	113.0
(Nominal)	*2	BTU / h	341,200	368,500	385,600
	Power input	kW	25.70	28.42	30.05
	Current input A		43.3-41.2-39.7	47.9-45.5-43.9	50.7-48.1-46.4
	COP	kW / kW	3.89	3.80	3.76
Temp. range of	Indoor	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)
heating	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)
Indoor unit	Total capacity		50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity
connectable	Model / Quantity		P15~P250 / 1~50	P15~P250 / 1~50	P15~P250 / 1~50
Sound pressure le (measured in ane		dB <a>	64 64.5		65
Power pressure level (measured in anechoic room)		dB <a>	84	84.5	85
Refrigerant piping	Liquid pipe	mm (in.)	19.05(3/4) Brazed	19.05(3/4) Brazed	19.05(3/4) Brazed
diameter	Gas pipe	mm (in.)	34.93(1-3/8) Brazed	41.28(1-5/8) Brazed	41.28(1-5/8) Brazed

ulailletei	Gas pipe	1111111 (111.)	0-1)00.F0	10) Blazeu	41.20(1-3	70) Blazeu	71.20(1-3	10) Blazeu
Set Model			·	·	·	·	·	·
Model			PUHY- P350YJM-A(-BS)	PUHY- P450YJM-A(-BS)	PUHY- P400YJM-A(-BS)	PUHY- P450YJM-A(-BS)	PUHY- P450YJM-A(-BS)	PUHY- P450YJM-A(-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Air flow rate	m³/min	210	370	210	370	370	370
		L/s	3,500	6,167	3,500	6,167	6,167	6,167
		cfm	7,415	13,065	7,415	13,065	13,065	13,065
	Driving mechanis	sm	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	rect-driven by motor	Inverter-control, Dir	rect-driven by motor
	Motor output	kW	0.46 x 1	0.46 x 2	0.46 x 1	0.46 x 2	0.46 x 2	0.46 x 2
*5	External static p	ress.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	9.9	11.6	10.1	11.6	11.6	11.6
	Case heater	kW	0.045	0.045	0.045	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>	
External dimension	on HxWxD	mm	1,710(1,650 without legs) x 1,220 x 760	1,710(1,650 without legs) x 1,750 x 760	1,710(1,650 without legs) x 1,220 x 760	1,710(1,650 without legs) x 1,750 x 760	1,710(1,650 without legs) x 1,750 x 760	1,710(1,650 without legs x 1,750 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 68-15/16 x 29-15/16	67-3/8(65 without legs) x 68-15/16 x 29-15/16	67-3/8(65 without legs) x 68-15/16 x 29-15/16
Protection devices	High pressure pr	rotection			High pressure sensor, High pressure switch at 4.15MPa (601 psi)		High pressure sensor, High pressure switch at 4.15MPa (601 psi)	
	Inverter circuit (CC	MP./FAN)	Over-heat protection,	Over-current protection	Over-heat protection,	Over-current protection	Over-heat protection,	Over-current protection
	Compressor		Over-heat	protection	Over-heat	protection	Over-heat	protection
	Fan motor		Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch
Refrigerant	Type x original c	harge	R410A x 11.5kg (26lbs)	R410A x 11.8kg (27lbs)	R410A x 11.5kg (26lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)
Net weight		kg (lbs)	250(552)	290(640)	250(552)	290(640)	290(640)	290(640)
Heat exchanger			Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube
Pipe between uni	Liquid pipe	mm (in.)	12.7(1/2) Brazed	15.88(5/8) Brazed	15.88(5/8) Brazed	15.88(5/8) Brazed	15.88(5/8) Brazed	15.88(5/8) Brazed
and distributor	Gas pipe	mm (in.)	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed
Optional parts			Outdoor Twinning I	it: CMY-Y200VBK2	Outdoor Twinning I	kit: CMY-Y200VBK2	Outdoor Twinning I	kit: CMY-Y200VBK2
•				102SS/LS-G2, 202S/302S-G2	CMY-Y	102SS/LS-G2, 202S/302S-G2		102SS/LS-G2, 202S/302S-G2
			Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-G

Notes:

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		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.)	



Outdoor unit

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^{*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 Series Y Series PUHY-P YSJM-A(-BS)



► Specifications

Model			PUHY-P950YSJM-A(-BS)	PUHY-P1000YSJM-A(-BS)	PUHY-P1050YSJM-A(-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	*1	kW	108.0	113.0	118.0	
(Nominal)	*1	BTU / h	368,500	385,600	402,600	
	Power input	kW	30.50	32.10	33.81	
	Current input	Α	51.4-48.9-47.1	54.1-51.4-49.6	57.0-54.2-52.2	
	EER	kW / kW	3.54	3.52	3.49	
Temp. range of	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	
cooling	Outdoor	D.B.	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)	
Heating capacity	*2	kW	119.5	127.0	132.0	
(Nominal)	*2	BTU / h	407,700	433,300	450,400	
	Power input	kW	30.02	33.15	34.10	
	Current input	Α	50.6-48.1-46.4	55.9-53.1-51.2	57.5-54.6-52.7	
	COP	kW / kW	3.98	3.83	3.87	
Temp. range of	Indoor	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	
heating	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)	
Indoor unit	Total capacity		50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	
connectable	Model / Quantity		P15~P250 / 1~50	P15~P250 / 2~50	P15~P250 / 2~50	
Sound pressure le (measured in ane		dB <a>	64.5	64.5	65	
Power pressure level (measured in anechoic room)		dB <a>	84.5	84.5	85	
Refrigerant piping	Liquid pipe	mm (in.)	19.05(3/4) Brazed	19.05(3/4) Brazed	19.05(3/4) Brazed	
diameter	Gas pipe	mm (in.)	41.28(1-5/8) Brazed	41.28(1-5/8) Brazed	41.28(1-5/8) Brazed	
Set Model						

Set Model											
Model			PUHY-	PUHY-	PUHY-	PUHY-	PUHY-	PUHY-	PUHY-	PUHY-	PUHY-
			P250YJM-A(-BS)	P300YJM-A(-BS)	P400YJM-A(-BS)	P300YJM-A(-BS)	P300YJM-A(-BS)	P400YJM-A(-BS)	P300YJM-A(-BS)	P350YJM-A(-BS)	P400YJM-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	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m³/min	170	170	210	170	170	210	170	210	210
		L/s	2,833	2,833	3,500	2,833	2,833	3,500	2,833	3,500	3,500
		cfm	6,003	6,003	7,415	6,003	6,003	7,415	6,003	7,415	7,415
	Driving mechanis	sm	Inverter-cor	ntrol, Direct-driv	en by motor	Inverter-cor	ntrol, Direct-driv	ven by motor	Inverter-cor	trol, Direct-driv	en by motor
	Motor output	kW	0.46 x 1	0.46 x 1	0.46 x 1	0.46 x 1	0.46 x 1	0.46 x 1	0.46 x 1	0.46 x 1	0.46 x 1
*3	External static pr	ess.	0 Pa	0 Pa	0 Pa	0 Pa	0 Pa	0 Pa	0 Pa	0 Pa	0 Pa
	_		(0 mmH ₂ O)	(0 mmH ₂ O)	(0 mmH ₂ O)	(0 mmH ₂ O)	(0 mmH ₂ O)	(0 mmH ₂ O)	(0 mmH ₂ O)	(0 mmH ₂ O)	(0 mmH ₂ O)
Compressor	Type x Quantity		Inverter s	croll hermetic o	ompressor	Inverter s	croll hermetic o	ompressor	Inverter s	croll hermetic o	ompressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	6.8	7.7	10.1	7.7	7.7	10.1	7.7	9.9	10.1
	Case heater	kW	0.035	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045
External finish				d galvanized s			ed galvanized s				
				er coating for -			er coating for -			(+powder coating for -BS type)	
			<muns< td=""><td>SELL 5Y 8/1 or</td><td>similar></td><td><muns< td=""><td>SELL 5Y 8/1 or</td><td>similar></td><td><muns< td=""><td>SELL 5Y 8/1 or</td><td>similar></td></muns<></td></muns<></td></muns<>	SELL 5Y 8/1 or	similar>	<muns< td=""><td>SELL 5Y 8/1 or</td><td>similar></td><td><muns< td=""><td>SELL 5Y 8/1 or</td><td>similar></td></muns<></td></muns<>	SELL 5Y 8/1 or	similar>	<muns< td=""><td>SELL 5Y 8/1 or</td><td>similar></td></muns<>	SELL 5Y 8/1 or	similar>
External dimensio	n HxWxD	mm						1,710(1,650 without			
		111111	legs) x 920 x 760	legs) x 920 x 760	legs) x 1,220 x 760	legs) x 920 x 760	legs) x 920 x 760	legs) x 1,220 x 760	legs) x 920 x 760	legs) x 1,220 x 760	legs) x 1,220 x 760
		in.									67-3/8(65 without legs)
		111.	x 36-1/4 x 29-15/16	x 36-1/4 x 29-15/16	x 48-1/16 x 29-15/16	x 36-1/4 x 29-15/16	x 36-1/4 x 29-15/16	x 48-1/16 x 29-15/16	x 36-1/4 x 29-15/16	x 48-1/16 x 29-15/16	x 48-1/16 x 29-15/16
Protection	High pressure pre	otection						pressure switch			
devices				4.15MPa (601			4.15MPa (601				
	Inverter circuit (CO	MP./FAN)						rrent protection			
	Compressor			er-heat protec			er-heat protec				
	Fan motor										
Refrigerant	Type x original ch										
Net weight		kg (lbs)	200(441)	215(474)	250(552)	215(474)	215(474)	250(552)	215(474)		
Heat exchanger				ant cross fin &			ant cross fin &				
Pipe between unit Liquid pipe mm (in.)		()	. ,		. ,		15.88(5/8) Brazed	. ,	. ,	()	
and distributor	Gas pipe	mm (in.)			28.58(1-1/8) Brazed			28.58(1-1/8) Brazed	,		
Optional parts		Outdoor Tw	inning kit: CM	/-Y300VBK2	Outdoor Tw	inning kit: CM	Y-Y300VBK2	Outdoor Tw	inning kit: CM	'-Y300VBK2	
				CMY-Y102SS/			CMY-Y102SS/		Joint:	70	
				CMY-Y202S/3			CMY-Y202S/3				
			Header:	CMY-Y104/10	8/1010-G	Header:	CMY-Y104/10	8/1010-G	Header:	CMY-Y104/10	3/1010-G

Notes:

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		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, $60Pa/3.1mmH_2O$), $6.1mmH_2O$). *Nominal condition *1,*2 are subject to JIS B8615-1. *Due to continuing improvement, above specification may be subject to change without notice.

OUTDOOR UNIT Y Series **PUHY-P YSJM-A** ► Specifications

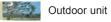


Model			PUHY-P1100YSJM-A(-BS)	PUHY-P1150YSJM-A(-BS)	PUHY-P1200YSJM-A(-BS)
Power source			3-phase 4-wire 380-400-415V 50/60Hz	3-phase 4-wire 380-400-415V 50/60Hz	3-phase 4-wire 380-400-415V 50/60Hz
Cooling capacity	*1	kW	124.0	130.0	136.0
(Nominal)	*1	BTU / h	423,100	443,600	464,000
	Power input	kW	35.73	38.34	40.84
	Current input	Α	60.3-57.3-55.2	64.7-61.4-59.2	68.9-65.4-63.1
	EER	kW / kW	3.47	3.39	3.33
Temp. range of	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
cooling	Outdoor	D.B.	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)
Heating capacity	*2	kW	140.0	145.0	150.0
(Nominal)	*2	BTU / h	477,700	494,700	511,800
	Power input	kW	36.08	37.27	39.26
	Current input A		60.9-57.8-55.7	60.9-57.8-55.7 62.9-59.7-57.6	
	COP	kW / kW	3.88	3.89	3.82
Temp. range of	Indoor	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)
neating	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)
ndoor unit	Total capacity		50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity
connectable	Model / Quantity		P15~P250 / 2~50	P15~P250 / 2~50	P15~P250 / 2~50
Sound pressure le measured in ane		dB <a>	65	65.5	66
Power pressure le measured in ane		dB <a> 85		85.5	86
Refrigerant piping	Liquid pipe	mm (in.)	19.05(3/4) Brazed	19.05(3/4) Brazed	19.05(3/4) Brazed
diameter	Gas pipe mm (in.)		41.28(1-5/8) Brazed 41.28(1-5/8) Brazed 41.28(1-5/8) Brazed		

diameter	Gas pipe	mm (in.)	41	.28(1-5/8) Braz	zed	41	1.28(1-5/8) Braz	zed	41.28(1-5/8) Brazed		
Set Model			•			•			•		
Model			PUHY-	PUHY-	PUHY-	PUHY-	PUHY-	PUHY-	PUHY-	PUHY-	PUHY-
			P350YJM-A(-BS)	P350YJM-A(-BS)	P400YJM-A(-BS)	P350YJM-A(-BS)	P350YJM-A(-BS)	P450YJM-A(-BS)	P350YJM-A(-BS)	P400YJM-A(-BS)	P450YJM-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	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2
	Air flow rate	m³/min	210	210	210	210	210	370	210	210	370
		L/s	3,500	3,500	3,500	3,500	3,500	6,167	3,500	3,500	6,167
		cfm	7,415	7,415	7,415	7,415	7,415	13,065	7,415	7,415	13,065
	Driving mechani	sm	Inverter-cor	ntrol, Direct-driv	ven by motor	Inverter-co	ntrol, Direct-driv	en by motor	Inverter-cor	ntrol, Direct-dri	ven by motor
	Motor output	kW	0.46 x 1	0.46 x 1	0.46 x 1	0.46 x 1	0.46 x 1	0.46 x 2	0.46 x 1	0.46 x 1	0.46 x 2
*3	External static p	ress.	0 Pa	0 Pa	0 Pa	0 Pa	0 Pa	0 Pa	0 Pa	0 Pa	0 Pa
			(0 mmH ₂ O)	(0 mmH ₂ O)	(0 mmH ₂ O)	(0 mmH ₂ O)	(0 mmH ₂ O)	(0 mmH ₂ O)	(0 mmH ₂ O)	(0 mmH ₂ O)	(0 mmH ₂ O)
Compressor	Type x Quantity		Inverter s	croll hermetic c	compressor	Inverter s	croll hermetic c	ompressor	Inverter s	croll hermetic	compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	9.9	9.9	10.1	9.9	9.9	11.6	9.9	10.1	11.6
	Case heater	kW	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045
External finish		Pre-coate	d galvanized s	teel sheets	Pre-coate	ed galvanized st	teel sheets	Pre-coate	ed galvanized s	teel sheets	
			(+powd	er coating for -	BS type)	(+powd	ler coating for -	BS type)	(+powd	ler coating for -	BS type)
			<muns< td=""><td>SELL 5Y 8/1 or</td><td>similar></td><td><mun:< td=""><td>SELL 5Y 8/1 or</td><td>similar></td><td><muns< td=""><td>SELL 5Y 8/1 or</td><td>similar></td></muns<></td></mun:<></td></muns<>	SELL 5Y 8/1 or	similar>	<mun:< td=""><td>SELL 5Y 8/1 or</td><td>similar></td><td><muns< td=""><td>SELL 5Y 8/1 or</td><td>similar></td></muns<></td></mun:<>	SELL 5Y 8/1 or	similar>	<muns< td=""><td>SELL 5Y 8/1 or</td><td>similar></td></muns<>	SELL 5Y 8/1 or	similar>
External dimensio	n HxWxD	mm						1,710(1,650 without			
								legs) x 1,750 x 760			
		in.						67-3/8(65 without legs)			
					x 48-1/16 x 29-15/16					x 48-1/16 x 29-15/16	
Protection	High pressure p	rotection						ressure switch			
devices				4.15MPa (601			4.15MPa (601			4.15MPa (601	
	Inverter circuit (CC	OMP./FAN)						rrent protection			
	Compressor			er-heat protec			ver-heat protect			ver-heat protec	
	Fan motor							Thermal switch			
Refrigerant	Type x original c	harge						R410A x 11.8kg (27lbs)			
Net weight		kg (lbs)	250(552)	250(552)	250(552)	250(552)	250(552)	290(640)	250(552)	250(552)	290(640)
Heat exchanger				ant cross fin &			ant cross fin &			ant cross fin &	
Pipe between unit	Liquid pipe							15.88(5/8) Brazed			
and distributor	Gas pipe	mm (in.)			28.58(1-1/8) Brazed					28.58(1-1/8) Brazed	
Optional parts				inning kit: CM			vinning kit: CM			vinning kit: CM'	
				CMY-Y102SS/		Joint:	CMY-Y102SS/		Joint:	CMY-Y102SS/	
				CMY-Y202S/3			CMY-Y202S/3			CMY-Y202S/3	
			Header:	CMY-Y104/10	8/1010-G	Header	CMY-Y104/10	8/1010-G	Header:	CMY-Y104/10	8/1010-G

Notes:

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		Indoor	Outdoor	Pipe length Level		
	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.)	



Outdoor unit

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^{*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 Series PUHY-P YSJM-A(-BS)

► Specifications

Model			PUHY-P1250YSJM-A(-BS)
Power source			3-phase 4-wire 380-400-415V 50/60Hz
Cooling capacity	*1	kW	140.0
(Nominal)	*1	BTU / h	477,700
	Power input	kW	42.94
	Current input	Α	72.4-68.8-66.3
	EER	kW / kW	3.26
Temp. range of	Indoor	W.B.	15.0~24.0°C(59~75°F)
cooling	Outdoor	D.B.	-5.0~46.0°C(23~115°F)
Heating capacity	*2	kW	156.5
(Nominal)	*2	BTU / h	534,000
	Power input	kW	40.86
	Current input	Α	68.9-65.5-63.1
	COP	kW / kW	3.83
Temp. range of	Indoor	D.B.	15.0~27.0°C(59~81°F)
heating	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)
Indoor unit	Total capacity		50~130 % of outdoor unit capacity
connectable	Model / Quantity		P15~P250 / 2~50
Sound pressure le		dB <a>	66
(measured in anec	choic room)	UD \A>	00
Power pressure le		dB <a>	86
(measured in anechoic room)		UD \A>	00
Refrigerant piping		mm (in.)	
	Gas pipe	mm (in.)	41.28(1-5/8) Brazed
Set Model			

Set Model								
Model			PUHY-P350YJM-A(-BS)	PUHY-P450YJM-A(-BS)	PUHY-P450YJM-A(-BS)			
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2			
	Air flow rate	m³/min	210	370	370			
		L/s	3,500	6,167	6,167			
		cfm	7,415	13,065	13,065			
	Driving mechanism			Inverter-control, Direct-driven by motor				
	Motor output kW		0.46 x 1	0.46 x 2	0.46 x 2			
*3	External static press.		0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)			
Compressor	Type x Quantity			Inverter scroll hermetic compressor				
	Starting method		Inverter	Inverter	Inverter			
	Motor output	kW	9.9	11.6	11.6			
	Case heater	kW	0.045	0.045	0.045			
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>					
External dimensio	n HxWxD	mm	1,710(1,650 without legs) x 1,220 x 760		1,710(1,650 without legs) x 1,750 x 760			
		in.	67-3/8(65 without legs) x 48-1/16 x 29-15/16 67-3/8(65 without legs) x 68-15/16 x 29-15/16 67		67-3/8(65 without legs) x 68-15/16 x 29-15/16			
Protection	High pressure pro	otection	High press	sure sensor, High pressure switch at 4.15MPa	a (601 psi)			
devices	Inverter circuit (CO	MP./FAN)	Over-heat protection, Over-current protection					
	Compressor			Over-heat protection				
	Fan motor		Thermal switch	Thermal switch	Thermal switch			
Refrigerant	Type x original ch	narge	R410A x 11.5kg (26lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)			
Net weight		kg (lbs)	250(552)	290(640)	290(640)			
Heat exchanger				Salt-resistant cross fin & copper tube				
Pipe between unit	Liquid pipe	mm (in.)	12.7(1/2) Brazed	15.88(5/8) Brazed	15.88(5/8) Brazed			
and distributor	Gas pipe	mm (in.)	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed			
Optional parts			Outdoor Twinning kit: CMY-Y300VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G					

Notes:

٠,	2 Norminal conditio	Notified 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.)							

OUTDOOR UNIT Y Series - High COP PUHY-EP YJM-A(-BS)

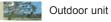


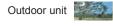
► Specifications

Model			PUHY-EP200YJM-A(-BS)	PUHY-EP250YJM-A(-BS)	PUHY-EP300YJM-A(-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	*1	kW	22.4	28.0	33.5	
(Nominal)		BTU / h	76.400	95.500	114.300	
(11011111101)	Power input	kW	5.09	6.73	8.03	
	Current input	A	8.5-8.1-7.8	11.3-10.7-10.4	13.5-12.8-12.4	
	EER	kW / kW	4.40	4.16	4.17	
Temp. range of	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	
cooling	Outdoor	D.B.	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)	
Heating capacity	*2		25.0	31.5	37.5	
(Nominal)		BTU / h	85.300	107,500	128.000	
(INOITHITAL)	Power input	kW	5.54	7.15	8.37	
	Current input	A	9.3-8.8-8.5	12.0-11.4-11.0	14.1-13.4-12.9	
	COP	kW / kW	9.3-6.6-6.5 4.51	12.0-11.4-11.0 4.40	4.48	
Temp. range of	Indoor	D.B.				
	Outdoor		15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	
heating Indoor unit		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)	
	Total capacity		50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	
connectable	Model / Quantity		P15~P250 / 1~17	P15~P250 / 1~21	P15~P250 / 1~26	
Sound pressure le (measured in ane	choic room)	dB <a>	57	60	61	
Power pressure le (measured in ane		dB <a>	77	80	81	
Refrigerant piping	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	
diameter	ameter Gas pipe 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 2	
	Air flow rate	m³/min	170	210	370	
		L/s	2,833	3,500	6,167	
		cfm	6,003	7,415	13,065	
	Driving mechanism		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	
	Motor output kW		0.46 x 1	0.46 x 1	0.46 x 2	
*3	External static press.		0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	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	5.4	6.8	7.7	
	Case heater	kW	0.035	0.045	0.045	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>	
External dimensio	n HxWxD	mm	1,710(1,650 without legs) x 920 x 760	1,710(1,650 without legs) x 1,220 x 760	1,710(1,650 without legs) x 1,750 x 760	
		in.	67-3/8(65 without legs) x 36-1/4 x 29-15/16	67-3/8(48-1/16 without legs) x 48-1/16 x 29-15/16	67-3/8(65 without legs) x 68-15/16 x 29-15/1	
Protection devices	High pressure pr	otection	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 (CO	MP./FAN)	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	
Fan motor		Thermal switch	Thermal switch	Thermal switch		
Refrigerant	Type x original ch	narge	R410A x 8.0kg (18lbs)	R410A x 11.5kg (26lbs)	R410A x 11.8kg (27lbs)	
Net weight		kg (lbs)	200(441)	250(552)	290(640)	
Heat exchanger		. 5 (/	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	
Optional parts			Joint: CMY-Y102SS-G2 Sait-resistant cross fin & copper tube Sait-resistant cross fin & copper tube Sait-resistant cross fin & copper tube		Joint: CMY-Y102SS/LS-G2	
Optional parts						

Notes:

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		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.)	





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^{*3} External static pressure option is available (30Pa, $60Pa/3.1mmH_2O$, $6.1mmH_2O$). *Nominal condition *1,*2 are subject to JIS B8615-1. *Due to continuing improvement, above specification may be subject to change without notice.

^{*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 Series - High COP PUHY-EP YSJM-A

(-BS)

► Specifications



Model			PUHY-EP400YSJM-A(-BS)	PUHY-EP450YSJM-A(-BS)	PUHY-EP500YSJM-A(-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	*1	kW	45.0	50.0	56.0	
(Nominal)	*1	BTU / h	153,500	170,600	191,100	
	Power input	kW	10.34	11.87	13.30	
	Current input	Α	17.4-16.5-15.9	20.0-19.0-18.3	22.4-21.3-20.5	
	EER	kW / kW	4.35	4.21	4.21	
Temp. range of	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	
cooling	Outdoor	D.B.	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)	
Heating capacity	*2	kW	50.0	56.0	63.0	
(Nominal)	*2	BTU / h	170,600	191,100	215,000	
	Power input	kW	11.41	12.90	14.28	
	Current input A		19.2-18.2-17.6	21.7-20.6-19.9	24.1-22.9-22.0	
	COP	kW / kW	4.38	4.34	4.41	
Temp. range of	Indoor	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	
heating	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)	
Indoor unit	Total capacity		50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	
connectable	Model / Quantity		P15~P250 / 1~35	P15~P250 / 1~39	P15~P250 / 1~43	
Sound pressure le (measured in ane		dB <a>	60	62	62.5	
Power pressure level (measured in anechoic room)		dB <a>	80	82	82.5	
Refrigerant piping	Liquid pipe	mm (in.)	12.7(1/2) Brazed	15.88(5/8) Brazed	15.88(5/8) Brazed	
diameter	Gas pipe	mm (in.)	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed	
Set Model			·			

Model			PUHY-	PUHY-	PUHY-	PUHY-	PUHY-	PUHY-
			EP200YJM-A(-BS)	EP200YJM-A(-BS)	EP200YJM-A(-BS)	EP250YJM-A(-BS)	EP200YJM-A(-BS)	EP300YJM-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	170	170	170	210	170	370
		L/s	2,833	2,833	2,833	3,500	2,833	6,167
		cfm	6,003	6,003	6,003	7,415	6,003	13,065
	Driving mechani	sm	Inverter-control, Di	rect-driven by motor	Inverter-control, Dir	rect-driven by motor	Inverter-control, Di	rect-driven by motor
	Motor output	kW	0.46 x 1	0.46 x 1	0.46 x 1	0.46 x 1	0.46 x 1	0.46 x 2
*3	External static p	ress.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	rmetic compressor
•	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.4	5.4	5.4	6.8	5.4	7.7
	Case heater	kW	0.035	0.035	0.035	0.045	0.035	0.045
External finish	•	•	Pre-coated galva	nized steel sheets	Pre-coated galvanized steel sheets		Pre-coated galvanized steel sheets	
			(+powder coati	ng for -BS type)	(+powder coati	ng for -BS type)	(+powder coati	ing for -BS type)
			<munsell 5<="" td=""><td>/ 8/1 or similar></td><td><munsell 5y<="" td=""><td>/ 8/1 or similar></td><td><munsell 5<="" td=""><td>Y 8/1 or similar></td></munsell></td></munsell></td></munsell>	/ 8/1 or similar>	<munsell 5y<="" td=""><td>/ 8/1 or similar></td><td><munsell 5<="" td=""><td>Y 8/1 or similar></td></munsell></td></munsell>	/ 8/1 or similar>	<munsell 5<="" td=""><td>Y 8/1 or similar></td></munsell>	Y 8/1 or similar>
External dimension	n HxWxD		1,710(1,650 without	1,710(1,650 without	1,710(1,650 without	1,710(1,650 without	1,710(1,650 without	1,710(1,650 withou
		mm	legs) x 920 x 760	legs) x 920 x 760	legs) x 920 x 760	legs) x 1,220 x 760	legs) x 920 x 760	legs) x 1,750 x 760
			67-3/8(65 without legs)	67-3/8(65 without legs)	67-3/8(65 without legs)	67-3/8(65 without legs)	67-3/8(65 without legs)	67-3/8(65 without legs
		in.	x 36-1/4 x 29-15/16	x 36-1/4 x 29-15/16	x 36-1/4 x 29-15/16	x 48-1/16 x 29-15/16	x 36-1/4 x 29-15/16	x 68-15/16 x 29-15/1
Protection	High pressure pr	otection	High pressure sensor	, High pressure switch	High pressure sensor	High pressure switch	High pressure sensor	r, High pressure swite
devices			at 4.15MP	a (601 psi)	at 4.15MP	a (601 psi)	at 4.15MP	Pa (601 psi)
	Inverter circuit (CC	MP./FAN)	Over-heat protection,	Over-current protection	Over-heat protection,	Over-current protection	Over-heat protection,	Over-current protectio
	Compressor		Over-heat	protection	Over-heat	protection	Over-heat	t protection
	Fan motor		Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch
Refrigerant	Type x original c	harge	R410A x 8.0kg (18lbs)	R410A x 8.0kg (18lbs)	R410A x 8.0kg (18lbs)	R410A x 11.5kg (26lbs)	R410A x 8.0kg (18lbs)	R410A x 11.8kg (27lbs
Net weight		kg (lbs)	200(441)	200(441)	200(441)	250(552)	200(441)	290(640)
Heat exchanger		Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube	
Pipe between unit	Liquid pipe	mm (in.)	9.52(3/8) Brazed	9.52(3/8) Brazed	9.52(3/8) Brazed	9.52(3/8) Brazed	9.52(3/8) Brazed	12.7(1/2) Brazed
and distributor	Gas pipe	mm (in.)	19.05(3/4) Brazed	19.05(3/4) Brazed	19.05(3/4) Brazed	22.2(7/8) Brazed	19.05(3/4) Brazed	22.2(7/8) Brazed
Optional parts			Outdoor Twinning I	kit: CMY-Y100VBK2	Outdoor Twinning I	kit: CMY-Y100VBK2	Outdoor Twinning I	kit: CMY-Y100VBK2
			Joint: CMY-Y102SS/L	S-G2, CMY-Y202S-G2	Joint: CMY-Y102SS/L	S-G2, CMY-Y202S-G2	Joint: CMY-Y102SS/L	S-G2, CMY-Y202S-G
			Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-G	Header: CMY-Y	′104/108/1010-G

Notes:

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		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).

OUTDOOR UNIT

► Specifications



Model			PUHY-EP500YSJM-A1(-BS)	PUHY-EP550YSJM-A(-BS)	PUHY-EP600YSJM-A(-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	*1	kW	56.0	63.0	69.0
(Nominal)	*1	BTU / h	191,100	215,000	235,400
	Power input	kW	13.65	15.36	16.82
	Current input	Α	23.0-21.8-21.0	25.9-24.6-23.7	28.3-26.9-26.0
	EER	kW / kW	4.10	4.10	4.10
Temp. range of	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
cooling	Outdoor	D.B.	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)
Heating capacity	*2	kW	63.0	69.0	76.5
(Nominal)	*2 BTU		215,000	235,400	261,000
	Power input	kW	14.54	15.78	17.30
	Current input	Α	24.5-23.3-22.4	26.6-25.3-24.3	29.2-27.7-26.7
	COP	kW / kW	4.33	4.37	4.42
Temp. range of	Indoor	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)
heating	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)
Indoor unit	Total capacity		50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity
connectable	Model / Quantity		P15~P250 / 1~43	P15~P250 / 1~47	P15~P250 / 1~50
Sound pressure le (measured in ane		dB <a>	63	63.5	64
Power pressure le (measured in anec		dB <a>	83	83.5	84
Refrigerant piping	Liquid pipe	mm (in.)	15.88(5/8) Brazed	15.88(5/8) Brazed	15.88(5/8) Brazed
diameter	Gas pipe	mm (in.)	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed

Set Model									
Model			PUHY- EP250YJM-A(-BS)	PUHY- EP250YJM-A(-BS)	PUHY- EP250YJM-A(-BS)	PUHY- EP300YJM-A(-BS)	PUHY- EP300YJM-A(-BS)	PUHY- EP300YJM-A(-BS)	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	
	Air flow rate	m³/min	210	210	210	370	370	370	
		L/s	3,500	3,500	3,500	6,167	6,167	6,167	
		cfm	7,415	7,415	7,415	13,065	13,065	13,065	
	Driving mechanis	sm	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	rect-driven by motor	Inverter-control, Di	rect-driven by motor	
	Motor output	kW	0.46 x 1	0.46 x 1	0.46 x 1	0.46 x 2	0.46 x 2	0.46 x 2	
*3	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	6.8	6.8	6.8	7.7	7.7	7.7	
	Case heater	kW	0.045	0.045	0.045	0.045	0.045	0.045	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>		
External dimensio	n HxWxD	mm	1,710(1,650 without legs) x 1,220 x 760	1,710(1,650 without legs) x 1,220 x 760	legs) x 1,220 x 760	1,710(1,650 without legs) x 1,750 x 760	legs) x 1,750 x 760	1,710(1,650 without legs) x 1,750 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	67-3/8(65 without legs) x 68-15/16 x 29-15/16		67-3/8(65 without legs) x 68-15/16 x 29-15/16	
Protection devices	High pressure pr	otection		High pressure sensor, High pressure switch I 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 (CC	MP./FAN)	Over-heat protection,	Over-current protection	Over-heat protection,	Over-current protection	Over-heat protection,	Over-current protection	
	Compressor		Over-heat	protection	Over-heat	protection	Over-heat	protection	
	Fan motor		Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	
Refrigerant	Type x original c	harge	R410A x 11.5kg (26lbs)	R410A x 11.5kg (26lbs)	R410A x 11.5kg (26lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	
Net weight		kg (lbs)	250(552)	250(552)	250(552)	290(640)	290(640)	290(640)	
Heat exchanger			Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube	
Pipe between unit	Liquid pipe	mm (in.)	9.52(3/8) Brazed	9.52(3/8) Brazed	9.52(3/8) Brazed	12.7(1/2) Brazed	12.7(1/2) Brazed	12.7(1/2) Brazed	
and distributor	Gas pipe	mm (in.)	22.2(7/8) Brazed	22.2(7/8) Brazed	22.2(7/8) Brazed	22.2(7/8) Brazed	22.2(7/8) Brazed	22.2(7/8) Brazed	
Optional parts			Outdoor Twinning k	tit: CMY-Y100VBK2	Outdoor Twinning I	kit: CMY-Y100VBK2	Outdoor Twinning I	kit: CMY-Y100VBK2	
			Joint: CMY-Y102SS/L	S-G2, CMY-Y202S-G2	Joint: CMY-Y102SS/L	S-G2, CMY-Y202S-G2	Joint: CMY-Y102SS/L	S-G2, CMY-Y202S-G2	
			Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-G	

Notes:

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		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.)



Outdoor unit

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^{*}Nominal condition *1,*2 are subject to JIS B8615-1.
*Due to continuing improvement, above specification may be subject to change without notice.

^{*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 Series - High COP **PUHY-EP YSJM-A**

(-BS)





Model			PUHY-EP650YSJM-A(-BS)	PUHY-EP700YSJM-A(-BS)
Power source			3-phase 4-wire 380-400-415V 50/60Hz	3-phase 4-wire 380-400-415V 50/60Hz
Cooling capacity	*1	kW	73.0	80.0
(Nominal)	*1	BTU / h	249,100	273,000
	Power input	kW	17.46	19.13
	Current input	Α	29.4-28.0-26.9	32.2-30.6-29.5
	EER	kW / kW	4.18	4.18
Temp. range of	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
cooling	Outdoor	D.B.	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)
Heating capacity	*2	kW	81.5	88.0
(Nominal)	*2	BTU / h	278,100	300,300
	Power input kW		18.56	20.00
	Current input A		31.3-29.7-28.6	33.7-32.0-30.9
	COP	kW / kW	4.39	4.40
Temp. range of	Indoor	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)
heating	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)
Indoor unit	Total capacity	•	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity
connectable	Model / Quantity		P15~P250 / 1~50	P15~P250 / 1~50
Sound pressure le		dB <a>	63	63.5
(measured in anechoic room)				
Power pressure level (measured in anechoic room)		dB <a>	83	83.5
Refrigerant piping	Liquid pipe	mm (in.)	15.88 (5/8) Brazed	19.05(3/4) Brazed
diameter	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	34.93(1-3/8) Brazed
Set Model				·

Set Model								
Model			PUHY- EP200YJM-A(-BS)	PUHY- EP200YJM-A(-BS)	PUHY- EP250YJM-A(-BS)	PUHY- EP200YJM-A(-BS)	PUHY- EP200YJM-A(-BS)	PUHY- EP300YJM-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	170	170	210	170	170	370
		L/s	2,833	2,833	3,500	2,833	2,833	6,167
		cfm	6,003	6,003	7,415	6,003	6,003	13,065
	Driving mechanis	sm	Inverter-	-control, Direct-driven I	by motor	Inverter	-control, Direct-driven	by motor
	Motor output	kW	0.46 x 1	0.46 x 1	0.46 x 1	0.46 x 1	0.46 x 1	0.46 x 2
*3	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverte	er scroll hermetic comp	ressor	Inverte	er scroll hermetic comp	pressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.4	5.4	6.8	5.4	5.4	7.7
	Case heater	kW	0.035	0.035	0.045	0.035	0.035	0.045
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>		
External dimension	on 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 1,220 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 1,750 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 48-1/16 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 68-15/16 x 29-15/16
Protection	High pressure pr	otection	High pressure sensor	, High pressure switch	at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)		
devices	Inverter circuit (CC	MP./FAN)	Over-heat p	protection, Over-current protection		Over-heat	protection, Over-currer	nt protection
	Compressor			Over-heat protection			Over-heat protection	
	Fan motor		Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch
Refrigerant	Type x original cl	narge	R410A x 8.0kg (18lbs)	R410A x 8.0kg (18lbs)	R410A x 11.5kg (26lbs)	R410A x 8.0kg (18lbs)	R410A x 8.0kg (18lbs)	R410A x 11.8kg (27lbs)
Net weight		kg (lbs)	200(441)	200(441)	250(552)	200(441)	200(441)	290(640)
Heat exchanger			Salt-res	sistant cross fin & copp	er tube	Salt-re:	sistant cross fin & copp	per tube
Pipe between uni		mm (in.)	9.52(3/8) Brazed	9.52(3/8) Brazed	9.52(3/8) Brazed	9.52(3/8) Brazed	9.52(3/8) Brazed	12.7(1/2) Brazed
and distributor	Gas pipe	mm (in.)	19.05(3/4) Brazed	19.05(3/4) Brazed	22.2(7/8) Brazed	19.05(3/4) Brazed	19.05(3/4) Brazed	22.2(7/8) Brazed
Optional parts			Joint: CMY-Y1	Twinning kit: CMY-Y3 102SS/LS-G2, CMY-Y2 der: CMY-Y104/108/10	202S/302S-G2	Joint: CMY-Y	r Twinning kit: CMY-Y3 102SS/LS-G2, CMY-Y2 der: CMY-Y104/108/10	202S/302S-G2

Notes:

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		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.)

OUTDOOR UNIT Y Series - High COP PUHY-EP YSJM-A(1) (-BS)

► Specifications

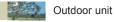


Model			PUHY-EP700YSJM-A1(-BS)	PUHY-EP750YSJM-A(-BS)	
Power source			3-phase 4-wire 380-400-415V 50/60Hz	3-phase 4-wire 380-400-415V 50/60Hz	
Cooling capacity	*1	kW	80.0	85.0	
(Nominal)	*1	BTU / h	273,000	290,000	
	Power input	kW	19.41	20.43	
	Current input	Α	32.7-31.1-30.0	34.4-32.7-31.5	
	EER	kW / kW	4.12	4.16	
Temp. range of	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	
cooling	Outdoor	D.B.	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)	
Heating capacity	*2	kW	88.0	95.0	
(Nominal)	*2	BTU / h	300,300	324,100	
	Power input	kW	20.32	21.93	
	Current input	Α	34.3-32.5-31.4	37.0-35.1-33.8	
	COP	kW / kW	4.33	4.33	
Temp. range of	Indoor	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	
heating	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)	
Indoor unit	Total capacity		50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	
connectable	Model / Quantity		P15~P250 / 1~50	P15~P250 / 1~50	
Sound pressure le (measured in ane		dB <a>	64	64.5	
Power pressure level (measured in anechoic room)		dB <a>	84	84.5	
Refrigerant piping	Liquid pipe	mm (in.)	19.05(3/4) Brazed	19.05(3/4) Brazed	
diameter		mm (in.)	34.93(1-3/8) Brazed	34.93(1-3/8) Brazed	
Set Model					

diameter Gas pipe		mm (in.)		34.93(1-3/8) Brazed			34.93(1-3/8) Brazed		
Set Model									
Model			PUHY-	PUHY-	PUHY-	PUHY-	PUHY-	PUHY-	
	1_		EP200YJM-A(-BS)	EP250YJM-A(-BS)	EP250YJM-A(-BS)	EP200YJM-A(-BS)	EP250YJM-A(-BS)	EP300YJM-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	170	210	210	170	210	370	
		L/s	2,833	3,500	3,500	2,833	3,500	6,167	
		cfm	6,003	7,415	7,415	6,003	7,415	13,065	
	Driving mechanis	sm	Inverter	-control, Direct-driven	by motor	Inverter	-control, Direct-driven	by motor	
	Motor output	kW	0.46 x 1	0.46 x 1	0.46 x 1	0.46 x 1	0.46 x 1	0.46 x 2	
*3	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	
Compressor	Type x Quantity			er scroll hermetic comp			er scroll hermetic comp	T	
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	5.4	6.8	6.8	5.4	6.8	7.7	
	Case heater	kW	0.035	0.045	0.045	0.035	0.045	0.045	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>			
External dimension	n HxWxD	mm	1,710(1,650 without legs) x 920 x 760	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 920 x 760	1,710(1,650 without legs) x 1,220 x 760	1,710(1,650 without legs) x 1,750 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		
Protection	High pressure pr	otection	High pressure sensor	, High pressure switch	at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)			
devices	Inverter circuit (CO	MP./FAN)	Over-heat	protection, Over-currer	nt protection	Over-heat	Over-heat protection, Over-current protection		
	Compressor			Over-heat protection	•		Over-heat protection		
	Fan motor		Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	
Refrigerant	Type x original ch	harge	R410A x 8.0kg (18lbs)	R410A x 11.5kg (26lbs)	R410A x 11.5kg (26lbs)	R410A x 8.0kg (18lbs)	R410A x 11.5kg (26lbs)	R410A x 11.8kg (27lbs)	
Net weight		kg (lbs)	200(441)	250(552)	250(552)	200(441)	250(552)	290(640)	
Heat exchanger			Salt-re	sistant cross fin & copp	er tube	Salt-re	sistant cross fin & copp	per tube	
Pipe between unit		mm (in.)	9.52(3/8) Brazed	9.52(3/8) Brazed	9.52(3/8) Brazed	9.52(3/8) Brazed	9.52(3/8) Brazed	12.7(1/2) Brazed	
and distributor	Gas pipe	mm (in.)	19.05(3/4) Brazed	22.2 (7/8) Brazed	22.2(7/8) Brazed	19.05(3/4) Brazed	22.2(7/8) Brazed	22.2(7/8) Brazed	
Optional parts			Joint: CMY-Y	Outdoor Twinning kit: CMY-Y300VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G		
			I Ica	uci. Olvi i- i 104/100/10	10-0	lica	uci. Olvi i- i 104/100/10	10-0	

Notes:

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		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.)



Outdoor unit

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^{*3} External static pressure option is available (30Pa, $60Pa/3.1mmH_2O$, $6.1mmH_2O$). *Nominal condition *1,*2 are subject to JIS B8615-1. *Due to continuing improvement, above specification may be subject to change without notice.

^{*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 Series - High COP PUHY-EP YSJM-A(1)

(-BS)



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Model			PUHY-EP750YSJM-A1(-BS)	PUHY-EP800YSJM-A(-BS)
Power source			3-phase 4-wire 380-400-415V 50/60Hz	3-phase 4-wire 380-400-415V 50/60Hz
Cooling capacity	*1	kW	85.0	90.0
(Nominal)	*1	BTU / h	290,000	307,100
	Power input	kW	20.93	21.63
	Current input	A	35.3-33.5-32.3	36.5-34.6-33.4
	EER	kW / kW	4.06	4.16
Temp. range of	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
cooling	Outdoor	D.B.	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)
Heating capacity	*2	kW	95.0	100.0
(Nominal)	*2	BTU / h	324,100	341,200
	Power input	kW	21.78	22.77
	Current input	A	36.7-34.9-33.6	38.4-36.5-35.1
	COP	kW / kW	4.36	4.39
Temp. range of	Indoor	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)
neating	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)
ndoor unit	Total capacity		50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity
connectable	Model / Quantity		P15~P250 / 1~50	P15~P250 / 1~50
Sound pressure level (measured in anechoic room)		dB <a>	65	65
Power pressure level (measured in anechoic room)		dB <a>	85	85
Refrigerant piping	Liquid pipe	mm (in.)	19.05(3/4) Brazed	19.05(3/4) Brazed
		mm (in.)	34.93(1-3/8) Brazed	34.93(1-3/8) Brazed

ulametei Gas pipe mini (iii.)		34.93(1-3/0) Blazed		54.93(1-370) Blazeu					
Set Model									
Model			PUHY-	PUHY-	PUHY-	PUHY-	PUHY-	PUHY-	
			EP250YJM-A(-BS)	EP250YJM-A(-BS)	EP250YJM-A(-BS)	EP200YJM-A(-BS)	EP300YJM-A(-BS)	EP300YJM-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 2	Propeller fan x 2	
	Air flow rate	m³/min	210	210	210	170	370	370	
		L/s	3,500	3,500	3,500	2,833	6,167	6,167	
		cfm	7,415	7,415	7,415	6,003	13,065	13,065	
	Driving mechanis	sm	Inverter	-control, Direct-driven I	by motor	Inverter	-control, Direct-driven	by motor	
	Motor output	kW	0.46 x 1	0.46 x 1	0.46 x 1	0.46 x 1	0.46 x 2	0.46 x 2	
*3	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	
Compressor	Type x Quantity		Inverte	er scroll hermetic comp	ressor	Invert	er scroll hermetic comp	pressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	6.8	6.8	6.8	5.4	7.7	7.7	
	Case heater	kW	0.045	0.045	0.045	0.035	0.045	0.045	
External finish			Pre-coated galvanized steel sheets			Pre-co	pated galvanized steel	sheets	
			(+powder coating for -BS type)				owder coating for -BS		
			<munsell 1="" 5y="" 8="" or="" similar=""></munsell>			<m></m>	UNSELL 5Y 8/1 or sim	ilar>	
External dimension	n HxWxD	mm	1,710(1,650 without	1,710(1,650 without	1,710(1,650 without	1,710(1,650 without			
		111111	legs) x 1,220 x 760	legs) x 1,220 x 760	legs) x 1,220 x 760	legs) x 920 x 760	legs) x 1,750 x 760	legs) x 1,750 x 760	
		in.	67-3/8(65 without legs)	67-3/8(65 without legs)	67-3/8(65 without legs)		67-3/8(65 without legs)		
		111.	x 48-1/16 x 29-15/16	x 48-1/16 x 29-15/16	x 48-1/16 x 29-15/16	x 36-1/4 x 29-15/16	x 68-15/16 x 29-15/16	x 68-15/16 x 29-15/16	
Protection	High pressure pr		High pressure sensor	r, High pressure switch	at 4.15MPa (601 psi)	High pressure senso	r, High pressure switch	vitch at 4.15MPa (601 psi)	
devices	Inverter circuit (CC	MP./FAN)	Over-heat	protection, Over-currer	t protection	Over-heat	protection, Over-currer	nt protection	
	Compressor			Over-heat protection			Over-heat protection		
	Fan motor		Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	
Refrigerant	Type x original c	harge	R410A x 11.5kg (26lbs)	R410A x 11.5kg (26lbs)	R410A x 11.5kg (26lbs)	R410A x 8.0kg (18lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	
Net weight		kg (lbs)	250(552)	250(552)	250(552)	200(441)	290(640)	290(640)	
Heat exchanger			sistant cross fin & copp			sistant cross fin & cop			
Pipe between uni		mm (in.)	9.52(3/8) Brazed	9.52(3/8) Brazed	9.52(3/8) Brazed	9.52(3/8) Brazed	12.7(1/2) Brazed	12.7(1/2) Brazed	
and distributor	Gas pipe	mm (in.)	22.2(7/8) Brazed	22.2(7/8) Brazed	22.2(7/8) Brazed	19.05(3/4) Brazed	22.2(7/8) Brazed	22.2(7/8) Brazed	
Optional parts				Twinning kit: CMY-Y3			r Twinning kit: CMY-Y3		
				102SS/LS-G2, CMY-Y2			102SS/LS-G2, CMY-Y		
		Hea	der: CMY-Y104/108/10	10-G	Header: CMY-Y104/108/1010-G				

Notes:

,	2 11011111101 001101110				
		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, $60Pa/3.1mmH_2O$, $6.1mmH_2O$). *Nominal condition *1,*2 are subject to JIS B8615-1. *Due to continuing improvement, above specification may be subject to change without notice.

OUTDOOR UNIT Y Series - High COP PUHY-EP YSJM-A(1) (-BS)

► Specifications



Model			PUHY-EP800YSJM-A1(-BS)	PUHY-EP850YSJM-A(-BS)
Power source			3-phase 4-wire 380-400-415V 50/60Hz	3-phase 4-wire 380-400-415V 50/60Hz
Cooling capacity *1		kW	90.0	96.0
(Nominal)	*1	BTU / h	307,100	327,600
	Power input	kW	22.16	23.58
	Current input	Α	37.4-35.5-34.2	39.8-37.8-36.4
	EER	kW / kW	4.06	4.07
Temp. range of	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
cooling	Outdoor	D.B.	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)
Heating capacity	*2	kW	100.0	108.0
(Nominal)	*2	BTU / h	341,200	368,500
	Power input	kW	22.98	24.65
	Current input	Α	38.7-36.8-35.5	41.6-39.5-38.1
	COP	kW / kW	4.35	4.38
Temp. range of	Indoor	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)
heating	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)
Indoor unit	Total capacity		50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity
connectable	Model / Quantity		P15~P250 / 1~50	P15~P250 / 1~50
Sound pressure le (measured in aned		dB <a>	65	65.5
Power pressure level (measured in anechoic room)		dB <a>	85	85.5
Refrigerant piping	Liquid pipe	mm (in.)	19.05(3/4) Brazed	19.05(3/4) Brazed
diameter	Gas pipe	mm (in.)	34.93(1-3/8) Brazed	41.28(1-5/8) Brazed
Set Model				

diameter	Gas pipe	mm (in.)	n.) 34.93(1-3/8) Brazed			41.28(1-5/8) Brazed		
Set Model	Set Model							
Model			PUHY- EP250YJM-A(-BS)	PUHY- EP250YJM-A(-BS)	PUHY- EP300YJM-A(-BS)	PUHY- EP250YJM-A(-BS)	PUHY- EP300YJM-A(-BS)	PUHY- EP300YJM-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	210	210	370	210	370	370
		L/s	3,500	3,500	6,167	3,500	6,167	6,167
		cfm	7,415	7,415	13,065	7,415	13,065	13,065
	Driving mechanis	m	Inverter-	control, Direct-driven I	by motor	Inverter	-control, Direct-driven	by motor
	Motor output	kW	0.46 x 1	0.46 x 1	0.46 x 2	0.46 x 1	0.46 x 2	0.46 x 2
	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity			er scroll hermetic comp			er scroll hermetic comp	
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	6.8	6.8	7.7	6.8	7.7	7.7
	Case heater	kW	0.045	0.045	0.045	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>		type)	
External dimensio	n 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 1,750 x 760	1,710(1,650 without legs) x 1,220 x 760	1,710(1,650 without legs) x 1,750 x 760	1,710(1,650 without legs) x 1,750 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 68-15/16 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 68-15/16 x 29-15/16	67-3/8(65 without legs) x 68-15/16 x 29-15/16
Protection	High pressure pr	otection	High pressure sensor	, High pressure switch	at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)		
devices	Inverter circuit (CC	MP./FAN)	Over-heat p	protection, Over-curren	t protection	Over-heat	protection, Over-currer	nt protection
	Compressor			Over-heat protection		Over-heat protection		
	Fan motor		Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch
Refrigerant	Type x original cl	narge	R410A x 11.5kg (26lbs)	R410A x 11.5kg (26lbs)	R410A x 11.8kg (27lbs)	R410A x 11.5kg (26lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)
Net weight		kg (lbs)	250(552)	250(552)	290(640)	250(552)	290(640)	290(640)
Heat exchanger			sistant cross fin & copp			sistant cross fin & copp		
Pipe between unit		mm (in.)	9.52(3/8) Brazed	9.52(3/8) Brazed	12.7(1/2) Brazed	9.52(3/8) Brazed	12.7(1/2) Brazed	12.7(1/2) Brazed
and distributor	Gas pipe	mm (in.)	22.2(7/8) Brazed	22.2(7/8) Brazed	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-Y30VBK2EG Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G		Outdoor Twinning kit: CMY-Y300VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G			

Notes:

٠,	2 1101111101 00110100				
		Indoor	Indoor Outdoor Pipe		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.)



Outdoor unit

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^{*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 Series - High COP

PUHY-EP YSJM-A(-BS)





Model			PUHY-EP900YSJM-A(-BS)					
Power source				3-phase 4-wire 380-400-415V 50/60Hz				
Cooling capacity	*1	kW		101.0				
(Nominal)	*1	BTU / h		344,600				
	Power input	kW	24.81					
	Current input	Α	41.8-39.7-38.3					
	EER	kW / kW	4.07					
Temp. range of	Indoor	W.B.		15.0~24.0°C(59~75°F)				
cooling	Outdoor	D.B.		-5.0~46.0°C(23~115°F)				
Heating capacity	*2	kW		113.0				
(Nominal)	*2	BTU / h		385,600				
	Power input	kW	25.50					
	Current input	Α	43.0-40.8-39.4					
	COP	kW / kW	4.43					
Temp. range of	Indoor	D.B.		15.0~27.0°C(59~81°F)				
heating	Outdoor	W.B.		-20.0~15.5°C(-4~60°F)				
Indoor unit	Total capacity			50~130 % of outdoor unit capacity				
connectable	Model / Quantity			P15~P250 / 1~50				
Sound pressure le (measured in anec		dB <a>	66					
Power pressure level (measured in anechoic room) dB <a>		dB <a>	86					
Refrigerant piping	Liquid pipe	mm (in.)	1.) 19.05(3/4) Brazed					
diameter	Gas pipe	mm (in.)	41.28(1-5/8) Brazed					
Set Model			<u> </u>					
Model			PUHY-EP300YJM-A(-BS) PUHY-EP300YJM-A(-BS) PUHY-EP300YJM-A(-BS)					

Model			PUHY-EP300YJM-A(-BS)	PUHY-EP300YJM-A(-BS)	PUHY-EP300YJM-A(-BS)		
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2		
	Air flow rate	m³/min	370	370	370		
		L/s	6,167	6,167	6,167		
		cfm	13,065	13,065	13,065		
	Driving mechanis	sm		Inverter-control, Direct-driven by motor			
	Motor output	kW	0.46 x 2	0.46 x 2	0.46 x 2		
*3	External static pr	ess.	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)		
Compressor	Type x Quantity			Inverter scroll hermetic compressor			
	Starting method		Inverter	Inverter	Inverter		
	Motor output	kW	7.7	7.7	7.7		
	Case heater	kW	0.045	0.045	0.045		
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>				
External dimensio	n HxWxD	mm	1,710(1,650 without legs) x 1,750 x 760	1,710(1,650 without legs) x 1,750 x 760	1,710(1,650 without legs) x 1,750 x 760		
		in.	67-3/8(65 without legs) x 68-15/16 x 29-15/16	67-3/8(65 without legs) x 68-15/16 x 29-15/16	67-3/8(65 without legs) x 68-15/16 x 29-15/16		
Protection	High pressure pr	otection	High press	sure sensor, High pressure switch at 4.15MP	a (601 psi)		
devices	Inverter circuit (CO	MP./FAN)	Over-heat protection, Over-current protection				
	Compressor			Over-heat protection			
	Fan motor		Thermal switch	Thermal switch	Thermal switch		
Refrigerant	Type x original ch	narge	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)		
Net weight		kg (lbs)	290(640)	290(640)	290(640)		
Heat exchanger			Salt-resistant cross fin & copper tube				
Pipe between unit	Liquid pipe	mm (in.)	12.7(1/2) Brazed	12.7(1/2) Brazed	12.7(1/2) Brazed		
and distributor	Gas pipe	mm (in.)	22.2(7/8) Brazed	22.2(7/8) Brazed	22.2(7/8) Brazed		
Optional parts			.lo	Outdoor Twinning kit: CMY-Y300VBK2 int: CMY-Y102SS/LS-G2, CMY-Y202S/302S-	G?		
			Header: CMY-Y104/108/1010-G				

Notes:

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	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, $60Pa / 3.1mmH_2O$, $6.1mmH_2O$). *Nominal condition *1,*2 are subject to JIS B8615-1. *Due to continuing improvement, above specification may be subject to change without notice.

OUTDOOR UNIT ZUBADAN (Heat Pump) Series(Y) PUHY-HP Y(S)HM-A(-BS)

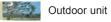
► Specifications

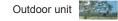


Set name			PUHY-HP200YHM-A(-BS)	PUHY-HP250YHM-A(-BS)	PUHY-HP400	YSHM-A(-BS)	PUHY-HP500	YSHM-A(-BS)
Power source				3-phase 4-wire 380	0-400-415V 50/60	Hz		
Cooling cap	acity *1	kW	22.4	28.0	45	5.0	56	6.0
(Nominal)	*1	BTU/h	76,400	95,500	153	,500	191	,100
	Power input	kW	6.40 9.06 12.86		18.16			
	Current input	Α	10.8-10.2-9.8	15.2-14.5-14.0	21.7-20).6-19.8	30.6-29	9.1-28.0
	EER	kW/kW	3.50	3.09	3.	49	3.	08
Temp.	Indoor	W.B.		15 ~ 24°C	(59 ~ 75°F)		'	
range of cooling	Outdoor	D.B.		- 5 ~ 43°C (23 ~ 109°F)				
Heating cap	acity *2	kW	25.0	31.5	50	0.0	63	3.0
(Nominal)	*2	BTU/h	85,300	107,500	170	,600	215	,000
	Power input	kW	6.52	8.94	13	.35	18	.04
	Current input	А	11.0-10.4-10.0	15.0-14.3-13.8	22.5-21	.4-20.6	30.4-28	3.9-27.8
	COP	kW/kW	3.83	3.52	3.74		3.	49
Temp.	Indoor	D.B.		15 ~ 27°C	(59 ~ 81°F)			
range	0.11							
of heating	Outdoor	W.B.		-25 ~ 15.5°C	(-13 ~ 60°F)			
Indoor unit	Total capac	ity		50 ~ 130% of out	door unit capacity	/		
connectable	Model/Quar	ntity	P15~P250 / 1~17	P15 ~ P250 / 1 ~ 21	P15 ~ P25	50 / 1 ~ 34	P15 ~ P25	50 / 1 ~ 43
Sound press (measured in a		dB <a>	56	57	5	9	6	0
Diameter of	Liquid pipe	mm(in.)	ø12.7 (ø1/2) Brazed	ø12.7 (ø1/2) Brazed	ø15.88 (ø5/8) Brazed		ø15.88 (ø5/8) Brazed	
refrigerant pipe		mm(in.)	ø19.05 (ø3/4) Brazed	ø22.2 (ø7/8) Brazed	ø28.58 (ø1-1/8) Brazed		,	1/8) Brazed
Model	Ouo pipo	11111(111.)	210.00 (20/1) 210200	222.2 (2770) 2.4204	(PUHY-HP200YHM-A(-BS)		,
External fini	sh		Pre-coated galvanized steel shee		anized steel she	. ,	. ,	
	011		-			1,710 (without legs 1,650)		
External dimens	ion H x W x D	mm		1,710 (without legs 1,650) x 920 x 760	x 920 x 760	x 920 x 760	x 920 x 760	x 920 x 760
	in.		67-3/8 (without legs 65)	67-3/8 (without legs 65)		67-3/8 (without legs 65)		
			x 36-1/4 x 29-15/16	x 36-1/4 x 29-15/16	x 36-1/4 x 29-15/16	x 36-1/4 x 29-15/16	x 36-1/4 x 29-15/16	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 exchar	3 -			s fin & copper tube	Salt-resistant cross fin & copper tube			
	Туре			metic compressor	Inverter scroll hermetic compressor			
Compressor	Starting me			erter	Inve			
	Motor output	kW	5.3	6.7	5.3	5.3	6.7	6.7
*3		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
FAN		cfm	7,945	7,945	7,945	7,945	7,945	7,945
	Type x Qua		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 stati		0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)		0 Pa (0 mmH ₂ O)		
Protection High pressure protection			High pressure sensor, High press	,	0 1	ensor, High pres		\ ' '
devices Inverter circuit (COM		, ,	Over-heat protection, 0	· · · · · · · · · · · · · · · · · · ·	Over-	heat protection,		ection
Compressor			Over-heat		D4404 0 21 122 1		protection	D4404 0.00 (00.00)
Refrigerant	Type x Origin		R410A x 9.0kg (20 lbs)	R410A x 9.0kg (20 lbs)		R410A x 9.0kg (20 lbs)	* ' '	
Pipe between	Liquid pipe	` ,	-	-		ø9.52 (ø3/8) Brazed		
unit distributor	Gas pipe	mm(in.)	-	-		ø19.05 (ø3/4) Brazed	· , ,	. ,
Optional parts				-Y102SS-G2 '104/108/1010-G		utdoor Twinning I :: CMY-Y102SS/I	_S-G2, CMY-Y20	2S-G2
					Header : CMY-Y104/108/1010-G			

Notes:

,				
	Indoor	Indoor Outdoor Pipe		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.)





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^{*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 (Heat Pump) Series

PQHY-P YHM-A

▶ Specifications

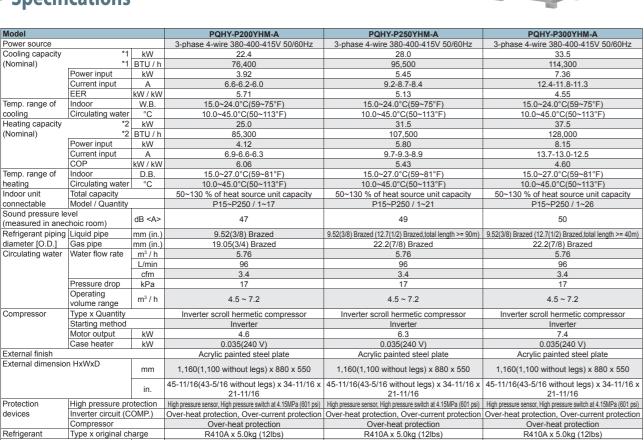


plate type

5.0

Header: CMY-Y104/108/1010-G

Joint: CMY-Y102SS-G2, CMY-Y102LS-G2 | Joint: CMY-Y102SS-G2, CMY-Y102LS-G2

Notes:

Refrigerant

Heat exchange

Optional parts

Type x original charge

MPa

Water volume in

Water pressure

,	2 14011111101 00110100					
		Indoor	Water temperature	Pipe length	Level difference	
	Cooling	27°CD.B./19°CW.B. (81°FD.B./66°FW.B.)	30°C (86°F)	7.5m (24-9/16ft.)	0m (0ft.)	
	Heating	20°CD.B. (68°FD.B.)	20°C (68°F)			

R410A x 5.0kg (12lbs)

plate type

5.0

2.0

Joint: CMY-Y102SS-G2 Header: CMY-Y104/108/1010-G

- *3 The ambient temperature of the heat source unit needs to be kept below 40°CD.B
- *4 The ambient relative humidity of the heat source unit needs to be kept below 80%.
 *5 The heat source Unit should not be installed at outdoor.
 *6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

- *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

HEAT SOURCE UNIT WY (Heat Pump) Series

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	*1	kW	45.0	50.0	56.0
(Nominal)	*1	BTU / h	153,500	170,600	191,100
	Power input	kW	8.25	9.84	11.45
	Current input	Α	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	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
cooling	Circulating water	°C	10.0~45.0°C(50~113°F)	10.0~45.0°C(50~113°F)	10.0~45.0°C(50~113°F)
Heating capacity	*2	kW	50.0	56.0	63.0
(Nominal)	*2 BTU / h		170,600	191,100	215,000
	Power input	kW	8.65	10.42	12.06
	Current input	Α	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	Indoor	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)
heating	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	Total capacity		50~130 % of heat source unit capacity	50~130 % of heat source unit capacity	50~130 % of heat source unit capacity
connectable	Model / Quantity		P15~P250 / 1~34	P15~P250 / 1~39	P15~P250 / 1~43
Sound pressure le		dB <a>	50	51	52
(measured in anechoic room)					
Refrigerant piping Liquid pipe		mm (in.)	12.7(1/2) Brazed	15.88(5/8) Brazed	15.88(5/8) Brazed
diameter [O.D.] Gas pipe mm (mm (in.)	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed
Set Model					
Model			POHY-P200YHM-A POHY-P200YHM-A	POHY-P250YHM-A POHY-P200YHM-A	POHY-P250YHM-A POHY-P250YHM-A

Gas pipe	mm (in.)	28.58(1-1/	8) Brazed	28.58(1-1	/8) Brazed	28.58(1-1/8) Brazed	
		PQHY-P200YHM-A	PQHY-P200YHM-A	PQHY-P250YHM-A	PQHY-P200YHM-A	PQHY-P250YHM-A	PQHY-P250YHM-A
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
Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
Motor output	kW	4.6	4.6	6.3	4.6	6.3	6.3
Case heater	kW	0.035(240 V)					
		Acrylic painte	ed steel plate			Acrylic painte	ed steel plate
n HxWxD	mm	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
High pressure pro	otection						
Inverter circuit (C	OMP.)	Over-heat protection, (Over-current protection				
Compressor		Over-heat	protection	Over-heat protection		Over-heat protection	
Type x original ch	narge	R410A x 5.0kg (12lbs)					
	kg (lbs)	195(430)	195(430)	195(430)	195(430)	195(430)	195(430)
	-	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
		Heat Source Twinning	kit: CMY-Y100VBK2	Heat Source Twinning	kit: CMY-Y100VBK2	Heat Source Twinning	kit: CMY-Y100VBK2
		Joint: CMY-Y102SS-G2, CMY	-Y102LS-G2, CMY-Y202S-G2	Joint: CMY-Y102SS-G2, CMY	-Y102LS-G2, CMY-Y202S-G2	Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2	
		Header:CMY-Y1	104/108/1010-G	Header: CMY-Y	104/108/1010-G	Header:CMY-Y	104/108/1010-G
	Water flow rate Pressure drop Operating volume range Type x Quantity Starting method Motor output Case heater h HxWxD High pressure pre Inverter circuit (C Compressor Type x original ch Water volume in plate Water pressure	Water flow rate	Water flow rate	Water flow rate	Water flow rate	Water flow rate	PQHY-P200YHM-A

Notes:

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

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

Outdoor unit



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R410A x 5.0kg (12lbs)

5.0

Header: CMY-Y104/108/1010-G

^{*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 (Heat Pump) Series

PQHY-P YSHM-A

▶ Specifications



Model			PQHY-P5	50YSHM-A	PQHY-P6	00YSHM-A		
Power source			3-phase 4-wire 380	-400-415V 50/60Hz	3-phase 4-wire 380	-400-415V 50/60Hz		
Cooling capacity	*1	kW	63.0		69	9.0		
(Nominal)	*1	BTU / h	215,000		235,400			
	Power input	kW	13	.46	15	.48		
	Current input	Α	22.7-21	1.5-20.8	26.1-24	4.8-23.9		
	EER	kW / kW	4.	68	4.	45		
Temp. range of	Indoor	W.B.	15.0~24.0°	C(59~75°F)	15.0~24.0°	C(59~75°F)		
cooling	Circulating water	°C	10.0~45.0°(C(50~113°F)	10.0~45.0°	C(50~113°F)		
Heating capacity	*2	kW	69	0.0	70	6.5		
(Nominal)	*2	BTU / h	235	,400	261	,000		
	Power input	kW	14	.65	17.12			
	Current input	Α	24.7-23	3.4-22.6	28.9-2	7.4-26.4		
	COP	kW / kW	4.	70	4.	46		
Temp. range of	Indoor	D.B.	15.0~27.0°	C(59~81°F)	15.0~27.0°C(59~81°F)			
heating	Circulating water	°C	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 / 2~47		P15~P250 / 2~50			
Sound pressure le (measured in aned		dB <a>	52.5		53			
Refrigerant piping	Liquid pipe	mm (in.)	15.88(5/8	B) Brazed	15.88(5/	8) Brazed		
diameter [O.D.]	Gas pipe	mm (in.)	28.58(1-1	/8) Brazed	28.58(1-1	/8) Brazed		
Set Model								
Model			PQHY-P300YHM-A	PQHY-P250YHM-A	PQHY-P300YHM-A	PQHY-P300YHM-A		
Circulating water	Water flow rate	m³/h	5.76	+ 5.76	5.76	+ 5.76		
		L/min	96 -	+ 96	96	96 + 96		
cfr		cfm	3.4	+ 3.4	3.4	+ 3.4		
	Pressure drop	kPa	17	17	17	17		

Model			PQHY-P300YHM-A	PQHY-P250YHM-A	PQHY-P300YHM-A	PQHY-P300YHM-A	
Circulating water	Water flow rate	m ³ / h		+ 5.76		+ 5.76	
		L/min		+ 96		+ 96	
		cfm	3.4	+ 3.4	3.4	+ 3.4	
Pressure drop		kPa	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	
Compressor Type x Quantity			Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	
	Motor output kW		7.4	6.3	7.4	7.4	
	Case heater	kW	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.035(240 V)	
External finish			Acrylic painted steel plate	Acrylic painted steel plate	Acrylic painted steel plate	Acrylic painted steel plate	
External 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) 34-11/16 x 21-11/16	
Protection	High pressure pro	otection	High pressure sensor, High pres	sure switch at 4.15MPa (601 psi)	High pressure sensor, High pres	sure switch at 4.15MPa (601 psi	
devices	Inverter circuit (C	OMP.)	Over-heat protection,	Over-current protection	Over-heat protection, (Over-current protection	
	Compressor	•	Over-heat	protection	Over-heat protection		
Refrigerant	Type x original ch	arge	R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)	
Net weight		kg (lbs)	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:

٠,	2 11011111101 00110100					
		Indoor	Water temperature	Pipe length	Level difference	
	Cooling	27°CD.B./19°CW.B. (81°FD.B./66°FW.B.)	30°C (86°F)	7.5m (24-9/16ft.)	Om (Oft.)	
	Heating	20°CD.B. (68°FD.B.)	20°C (68°F)			

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

- "4 The ambient temperature of the neaf source unit needs to be kept below 40°-U.I.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

HEAT SOURCE UNIT WY (Heat Pump) Series

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	*1	kW	73.0	80.0
(Nominal)	*1	BTU / h	249,100	273,000
	Power input	kW	13.96	15.58
	Current input	Α	23.5-22.3-21.5	26.3-24.9-24.0
	EER	kW / kW	5.22	5.13
Temp. range of	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
cooling	Circulating water	°C	10.0~45.0°C(50~113°F)	10.0~45.0°C(50~113°F)
Heating capacity	*2	kW	81.5	88.0
(Nominal)	*2	BTU / h	278,100	300,300
	Power input	kW	14.74	16.51
	Current input	Α	24.8-23.6-22.7	27.8-26.4-25.5
	COP	kW / kW	5.52	5.33
Temp. range of	Indoor	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)
heating	Circulating water	°C	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 le (measured in ane		dB <a>	53	53.5
Refrigerant piping	Liquid pipe	mm (in.)	19.05(3/4) Brazed	19.05(3/4) Brazed
diameter [O.D.]	Gas pipe	mm (in.)	34.93(1-3/8) Brazed	34.93(1-3/8) Brazed

diameter [O.D.]	Gas pipe	mm (in.)		34.93(1-3/8) Brazed		34.93(1-3/8) Brazed			
Set Model									
Model			PQHY-P250YHM-A	PQHY-P200YHM-A	PQHY-P200YHM-A	PQHY-P250YHM-A	PQHY-P250YHM-A	PQHY-P200YHM-A	
Circulating water	Water flow rate	m ³ / h		5.76 + 5.76 + 5.76			5.76 + 5.76 + 5.76		
		L/min		96 + 96 + 96			96 + 96 + 96		
		cfm		3.4 + 3.4 + 3.4			3.4 + 3.4 + 3.4		
	Pressure drop	kPa	17	17	17	17	17	17	
	Operating volume range	m³ / h	4.5 + 4.5 + 4.5 ~ 7.2 + 7.2 + 7.2			4.5 + 4.5 + 4.5 ~ 7.2 + 7.2 + 7.2			
Compressor	Type x Quantity		Inverte	er scroll hermetic comp	ressor	Inverte	er scroll hermetic comp	ressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	6.3	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	•		A	crylic painted steel pla	te	Acrylic painted steel plate			
External dimension	n HxWxD	mm	1,160(1,100 without legs) x 880 x 550	1,160(1,100 without legs) x 880 x 550	1,160(1,100 without legs) x 880 x 550	1,160(1,100 without legs) x 880 x 550	1,160(1,100 without legs) x 880 x 550	1,160(1,100 without legs) x 880 x 550	
			45-11/16(43-5/16 without		<u> </u>	45-11/16(43-5/16 without	U /		
		in.							
Protection	High pressure pr	ntection		r, High pressure switch		6 legs) x 34-11/16 x 21-11/16 legs) x 34-11/16 x 21-11/16 legs) x 34-11/16 x 21-11/19 High pressure sensor, High pressure switch at 4.15MPa (601 psi)			
devices	Inverter circuit (C			protection, Over-curren			protection, Over-curren		
401.000	Compressor		010111001	Over-heat protection	it protoction	0.101.1104.1	Over-heat protection	it protoction	
Refrigerant	Type x original ch	narge	R410A x 5.0kg (12lbs)		R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)		R410A x 5.0kg (12lbs	
Net weight	, , , p = 1. ege.	kg (lbs)	195(430)	195(430)	195(430)	195(430)	195(430)	195(430)	
Heat exchanger		1.5 (.22)	plate type	plate type	plate type	plate type	plate type	plate type	
3	Water volume in plate	L	5.0	5.0	5.0	5.0	5.0	5.0	
	Water pressure Max.	MPa	2.0	2.0	2.0	2.0	2.0	2.0	
Optional parts		Joint: CMY-Y102SS-G2,	ce Twinning kit: CMY- CMY-Y102LS-G2,CMY-Y2 der: CMY-Y104/108/10	02S-G2,CMY-Y302S-G2	Joint: CMY-Y102SS-G2,	ce Twinning kit: CMY-Y CMY-Y102LS-G2,CMY-Y2 der: CMY-Y104/108/10	202S-G2,CMY-Y302S-G2		

Notes:

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

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

Outdoor unit



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[&]quot;4 The ambient temperature of the neaf source unit needs to be kept below 40°CU.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 (Heat Pump) Series

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	*1	kW		85.0			90.0		
(Nominal)	*1	BTU / h		290,000		307,100			
	Power input	kW		17.19			19.18		
	Current input	Α		29.0-27.5-26.5			32.3-30.7-29.6		
	EER	kW / kW		4.94			4.69		
Temp. range of	Indoor	W.B.		15.0~24.0°C(59~75°F))		15.0~24.0°C(59~75°F)	
cooling	Circulating water	°C		10.0~45.0°C(50~113°F	()	10.0~45.0°C(50~113°F)			
Heating capacity	*2			95.0			100.0		
(Nominal)	*2	BTU / h		324,100			341,200		
	Power input	kW		18.27			20.74		
	Current input	Α		30.8-29.3-28.2			35.0-33.2-32.0		
	COP	kW / kW		5.19			4.82		
Temp. range of	Indoor	D.B.		15.0~27.0°C(59~81°F))		15.0~27.0°C(59~81°F)	
heating	Circulating water	°C		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 le	evel	dB <a>		54			E4		
(measured in ane	choic room)	UB <a>		54			54		
Refrigerant piping	Liquid pipe	mm (in.)		19.05(3/4) Brazed			19.05(3/4) Brazed		
diameter [O.D.]	Gas pipe	mm (in.)		34.93(1-3/8) Brazed		34.93(1-3/8) Brazed			
Set Model									
Model			PQHY-P250YHM-A	PQHY-P250YHM-A	PQHY-P250YHM-A	PQHY-P300YHM-A	PQHY-P250YHM-A	PQHY-P250YHM-A	
Circulating water	Water flow rate	m ³ / h		5.76 + 5.76 + 5.76			5.76 + 5.76 + 5.76		
_		L/min		96 + 96 + 96			96 + 96 + 96		
		cfm		3.4 + 3.4 + 3.4			3.4 + 3.4 + 3.4		
	Pressure drop	kPa	17	17	17	17	17	17	
	Operating volume range	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		Inverte	er scroll hermetic comp	ressor	Inverte	er scroll hermetic comp	ressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	6.3	6.3	6.3	7.4	6.3	6.3	
	Case heater	kW	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.035(240 V)	
External finish	10000			crylic painted steel pla			crylic painted steel pla		
External dimensio	n HxWxD	mm	1,160(1,100 without	1,160(1,100 without	1,160(1,100 without	1,160(1,100 without	1,160(1,100 without	1,160(1,100 without	
			legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550	
		in.	45-11/16(43-5/16 without	45-11/16(43-5/16 without	45-11/16(43-5/16 without	45-11/16(43-5/16 without			
D:	lue i					legs) x 34-11/16 x 21-11/16			
Protection	High pressure pro					High pressure sensor			
devices	Inverter circuit (C	UMP.)	Over-heat p	protection, Over-curren	it protection	Over-heat	protection, Over-currer	it protection	
Defrieses	Compressor		D4404 F 01 (40")	Over-heat protection	D4404 5 01 (60")	D4404 5 01 (40")	Over-heat protection	D4404 5 01 (40"	
Refrigerant	Type x original ch					R410A x 5.0kg (12lbs)			
Net weight		kg (lbs)	195(430)	195(430)	195(430)	195(430)	195(430)	195(430)	
Heat exchanger	Water volume in		plate type	plate type	plate type	plate type	plate type	plate type	
	plate	L	5.0	5.0	5.0	5.0	5.0	5.0	
	Water pressure Max.	MPa	2.0	2.0	2.0	2.0	2.0	2.0	
Optional parts			Joint: CMY-Y102SS-G2,	ce Twinning kit: CMY-\ CMY-Y102LS-G2,CMY-Y2 der: CMY-Y104/108/10	202S-G2,CMY-Y302S-G2	Joint: CMY-Y102SS-G2,	ce Twinning kit: CMY- CMY-Y102LS-G2,CMY-Y2 der: CMY-Y104/108/10	202S-G2,CMY-Y302S-G2	

Notes:

٠,	2 11011111101 00110100					
		Indoor	Water temperature	Pipe length	Level difference	
	Cooling	27°CD.B./19°CW.B. (81°FD.B./66°FW.B.)	30°C (86°F)	7.5m (24-9/16ft.)	Om (Oft.)	
	Heating	20°CD.B. (68°FD.B.)	20°C (68°F)			

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

- "4 The ambient temperature of the neaf source unit needs to be kept below 40°-U.I.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 (Heat Pump) Series **PQHY-P YSHM-A**



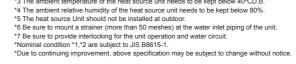
► Specifications

Model				PQHY-P850YSHM-A			PQHY-P900YSHM-A	
Power source			3-phase	4-wire 380-400-415V	50/60Hz	3-phase	4-wire 380-400-415V	50/60Hz
Cooling capacity	*1	kW		96.0		· ·	101.0	
(Nominal)	*1	BTU / h	327.600		344.600			
` ,	Power input	kW		21.20			23.22	
	Current input	Α		35.7-33.9-32.7			39.1-37.2-35.8	
	EER	kW / kW		4.52			4.34	
Temp. range of	Indoor	W.B.		15.0~24.0°C(59~75°F	1		15.0~24.0°C(59~75°F)	1
cooling	Circulating water	°C		10.0~45.0°C(50~113°F			10.0~45.0°C(50~113°F	
Heating capacity	*2			108.0	/		113.0	/
(Nominal)		BTU / h		368,500			385,600	
(11011111101)	Power input	kW		23.21			25.67	
	Current input	A		39.1-37.2-35.8			43.3-41.1-39.6	
	COP	kW / kW		4.65			4.40	
Temp. range of	Indoor	D.B.		15.0~27.0°C(59~81°F			15.0~27.0°C(59~81°F)	
heating	Circulating water			10.0~45.0°C(50~113°F			10.0~45.0°C(50~113°F	
Indoor unit	Total capacity			% of heat source unit			% of heat source unit	
connectable	Model / Quantity		30-130	P15~P250 / 2~50	Сарасну	30-130	P15~P250 / 2~50	Сарасну
Sound pressure le				F 13 - F 230 / 2 - 30			F 13*F 230 / 2**30	
(measured in ane		dB <a>		54.5			55	
Refrigerant piping		mm (in.)		19.05(3/4) Brazed			19.05(3/4) Brazed	
diameter [O.D.]	Gas pipe	mm (in.)		41.28(1-5/8) Brazed			41.28(1-5/8) Brazed	
Set Model	Gas pipe	111111 (111.)		41.20(1-3/0) DIazeu			41.20(1-3/0) DIAZEU	
Model			PQHY-P300YHM-A	PQHY-P300YHM-A	PQHY-P250YHM-A	PQHY-P300YHM-A	PQHY-P300YHM-A	PQHY-P300YHM-A
Circulating water	Water flow rate	m³/h	PQH1-P3001HW-A	5.76 + 5.76 + 5.76	PQn1-P2501NW-A	PQH1-P3001HW-A	5.76 + 5.76 + 5.76	PQH1-P3001HW-A
Circulating water	water now rate	L/min		96 + 96 + 96			96 + 96 + 96	
		cfm		3.4 + 3.4 + 3.4			3.4 + 3.4 + 3.4	
	Pressure drop	kPa	17	17	17	17	17	17
	Operating volume range	m ³ /h		- 4.5 + 4.5 ~ 7.2 + 7.2			- 4.5 + 4.5 ~ 7.2 + 7.2 ·	
Compressor			Investe	r carell barmatic come		Invent	r carell barmatic came	
Compressor	Type x Quantity			er scroll hermetic comp			er scroll hermetic comp	
	Starting method	134/	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	7.4	7.4	6.3	7.4	7.4	7.4
F	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 External dimension	n HxWxD	mm	1,160(1,100 without	crylic painted steel pla 1,160(1,100 without	1,160(1,100 without	1,160(1,100 without		1,160(1,100 without
			legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550
		in.	45-11/16(43-5/16 without 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	High pressure pro	otection	High pressure sensor	, High pressure switch	at 4.15MPa (601 psi)	High pressure sensor	, High pressure switch	at 4.15MPa (601 psi)
devices	Inverter circuit (C	OMP.)	Over-heat p	protection, Over-curren	t protection	Over-heat	protection, Over-curren	t protection
	Compressor		,	Over-heat protection	•		Over-heat protection	•
Refrigerant	Type x original ch	narge	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
3	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		ı	Joint: CMY-Y102SS-G2,0	ce Twinning kit: CMY- CMY-Y102LS-G2,CMY-Y2 der: CMY-Y104/108/10	02S-G2,CMY-Y302S-G2	Joint: CMY-Y102SS-G2,	ce Twinning kit: CMY-Y CMY-Y102LS-G2,CMY-Y2 der: CMY-Y104/108/10	02S-G2,CMY-Y302S-G2

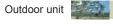
Notes:

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

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







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OUTDOOR UNIT R2 Series

PURY-P YJM-A(-BS)

▶ Specifications



Model		PURY-P200YJM-A(-BS)	PURY-P250YJM-A(-BS)	PURY-P300YJM-A(-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	*1	kW	22.4	28.0	33.5	
(Nominal)		BTU / h	76,400	95,500	114,300	
	Power input	kW	5.18	7.05	8.67	
	Current input	Α	8.7-8.3-8.0	11.9-11.3-10.8	14.6-13.9-13.4	
	EER	kW / kW	4.32	3.97	3.86	
Temp. range of	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	
cooling *3 Outdoor D.B.		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	Heating capacity *2 kW		25.0	31.5	37.5	
(Nominal)	*2	BTU / h	85,300	107,500	128,000	
	Power input	kW	5.69	7.32	8.78	
	Current input	Α	9.6-9.1-8.7	12.3-11.7-11.3	14.8-14.0-13.5	
İ	COP	kW / kW	4.39	4.30	4.27	
Temp. range of			15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	
heating *3	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)	
Indoor unit	Total capacity		50~150 % of outdoor unit capacity	50~150 % of outdoor unit capacity	50~150 % of outdoor unit capacity	
connectable	Model / Quantity		P15~P250 / 1~20	P15~P250 / 1~25	P15~P250 / 1~30	
Sound pressure le	vel					
(measured in aned	choic room)	dB <a>	56	57	59	
Power pressure le (measured in anec		dB <a>	76	77	79	
Refrigerant piping	High pressure	mm (in.)	15.88(5/8) Brazed	19.05(3/4) Brazed	19.05(3/4) Brazed	
diameter	Low pressure	mm (in.)	19.05(3/4) Brazed	22.2(7/8) Brazed	22.2(7/8) Brazed	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	
	Air flow rate	m³/min	185	185	185	
	7 11011 1410	L/s	3.083	3.083	3.083	
		cfm	6.532	6.532	6.532	
	Driving mechanis		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	
	Motor output kW		0.92 x 1	0.92 x 1	0.92 x 1	
*4	External static press.		0 Pa (0 mmH ₂ O) 0 Pa (0 mmH ₂ O)		0 Pa (0 mmH ₂ O)	
Compressor	Type x Quantity	000.	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	
00p. 0000.	Starting method		Inverter	Inverter	Inverter	
	Motor output	kW	5.4	6.8	7.8	
	Case heater	kW	0.035(240 V)	0.035(240 V)	0.045(240 V)	
External finish	Odde Heddel	1000	Pre-coated galvanized steel sheets	Pre-coated galvanized steel sheets	Pre-coated galvanized steel sheets	
External linion			(+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>	(+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>	(+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>	
External dimension	n HxWxD	mm	1,710(1,650 without legs) x 920 x 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 pr	otection	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 (CO	MP./FAN)	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	
	Fan motor		Thermal switch	Thermal switch	Thermal switch	
Refrigerant Type x original charge		narge	R410A x 9.5kg (21lbs)	R410A x 9.5kg (21lbs)	R410A x 9.5kg (21lbs)	
Net weight		kg (lbs)	240(530)	240(530)	245(541)	
Heat exchanger		. 5 (/	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	Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 BC controller: CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1	Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 BC controller: CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1	
ĺ			Main BC controller: CMB-P108,1010,1013,1016V-GA1 Sub BC controller: CMB-P104.108V-GB1.CMB-P1016V-HB1	Main BC controller: CMB-P108,1010,1013,1016V-GA1 Sub BC controller: CMB-P104.108V-GB1.CMB-P1016V-HB1	Main BC controller: CMB-P108,1010,1013,1016V-GA1 Sub BC controller: CMB-P104.108V-GB1.CMB-P1016V-HB1	

Notes:

٠,	2 Normal 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 -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.

OUTDOOR UNIT R2 Series PURY-P YJM-A(-BS)

► Specifications

Model			PURY-P350YJM-A(-BS)	PURY-P400YJM-A(-BS)	PURY-P450YJM-A(-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	*1	kW	40.0	45.0	50.0
(Nominal)		BTU / h	136,500	153,500	170,600
(Ivoilillai)	Power input	kW	11.33	13.55	14.49
	Current input	A	19.1-18.1-17.5	22.8-21.7-20.9	24.4-23.2-22.3
	EER				
T		kW / kW	3.53	3.32	3.45
Temp. range of	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
	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			45.0	50.0	56.0
(Nominal)		BTU / h	153,500	170,600	191,100
	Power input	kW	10.89	12.75	14.58
	Current input A		18.3-17.4-16.8	21.5-20.4-19.7	24.6-23.3-22.5
	COP	kW / kW	4.13	4.13 3.92	
Temp. range of			15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)
	ting *3 Outdoor W.B.		-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)
Indoor unit	Total capacity	11.5.	50~150 % of outdoor unit capacity	50~150 % of outdoor unit capacity	50~150 % of outdoor unit capacity
connectable	Model / Quantity		P15~P250 / 1~35	P15~P250 / 1~40	P15~P250 / 1~45
Sound pressure le			F 13 - F 250 / 1 - 55	F 13 - F 230 / 1 - 40	F 13 -F 2307 1-43
(measured in aned	choic room)	dB <a>	60	61	62
Power pressure le (measured in anec		dB <a>	80	81	82
Refrigerant piping	High pressure	mm (in.)	19.05(3/4) Brazed	22.2(7/8) Brazed	22.2(7/8) Brazed
diameter	Low pressure	mm (in.)	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 2
	Air flow rate	m³/min	225	225	360
		L/s	3.750	3.750	6.000
		cfm	7,945	7.945	12,712
	Driving mechanis		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
	Motor output kW		0.92 x 1	0.92 x 1	0.92 x 2
*4			0.92 X T	0.92 X 1 0 Pa (0 mmH ₂ O)	0.92 X 2 0 Pa (0 mmH ₂ O)
	External static press.				
Compressor	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter	Inverter
	Motor output kW		9.9	10.2	11.6
	Case heater kW		0.045(240 V)	0.045(240 V)	0.045(240 V)
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>
External dimension	n HxWxD	mm	1,710(1,650 without legs) x 1,220 x 760	1,710(1,650 without legs) x 1,220 x 760	1,710(1,650 without legs) x 1,750 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 68-15/16 x 29-15/16
Protection devices	High pressure pro		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 (CO	MP./FAN)	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection
	Fan motor		Thermal switch	Thermal switch	Thermal switch
Refrigerant	Type x original ch	narge	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)
Net weight	_	kg (lbs)	270(596)	270(596)	320(706)
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 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

Notes:

٠,	2 1101111101 00110100				
		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 -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.

Outdoor unit

Outdoor unit

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^{*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.

^{*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 Series

PURY-P YSJM-A(1)(-BS)

▶ Specifications



Model			PURY-P400YSJM-A1(-BS)	PURY-P450YSJM-A1(-BS)	PURY-P500YSJM-A(-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	*1	kW	45.0	50.0	56.0	
(Nominal)	*1	BTU / h	153,500	170,600	191,100	
	Power input	kW	10.73	12.50	14.85	
	Current input	Α	18.1-17.2-16.5	21.1-20.0-19.3	25.0-23.8-22.9	
	EER	kW / kW	4.19	4.00	3.77	
Temp. range of	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	
cooling *3	Outdoor	D.B.	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)	
Heating capacity	*2	kW	50.0	56.0	63.0	
(Nominal)	*2	BTU / h	170,600	191,100	215,000	
	Power input	kW	11.62	13.30	15.10	
	Current input	Α	19.6-18.6-17.9	22.4-21.3-20.5	25.4-24.2-23.3	
	COP	kW / kW	4.30	4.21	4.17	
Temp. range of	Indoor	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	
	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)	
Indoor unit	Total capacity		50~150 % of outdoor unit capacity	50~150 % of outdoor unit capacity	50~150 % of outdoor unit capacity	
connectable	Model / Quantity		P15~P250 / 1~40	P15~P250 / 1~45	P15~P250 / 1~50	
Sound pressure le (measured in anec		dB <a>	59	59.5	60	
Power pressure le (measured in anec		dB <a>	79	79.5	80	
Refrigerant piping	High pressure	mm (in.)	22.2(7/8) Brazed	22.2(7/8) Brazed	22.2(7/8) Brazed	
diameter	Low pressure	mm (in.)	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed	
Set Model	·					

Set Model								
Model			PURY-	PURY-	PURY-	PURY-	PURY-	PURY-
			P200YJM-A(-BS)	P200YJM-A(-BS)	P200YJM-A(-BS)	P250YJM-A(-BS)	P250YJM-A(-BS)	P250YJM-A(-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m³/min	185	185	185	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
	Driving mechanis	sm	Inverter-control, Dir	rect-driven by motor	Inverter-control, Dir	rect-driven by motor	Inverter-control, Di	rect-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
*4	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.4	5.4	5.4	6.8	6.8	6.8
	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		•	Pre-coated galva	nized steel sheets	Pre-coated galvanized steel sheets		Pre-coated galvanized steel sheets	
			(+powder coati	ng for -BS type)	(+powder coati	ng for -BS type)	(+powder coati	ng for -BS type)
			<munsell 5y<="" td=""><td>/ 8/1 or similar></td><td colspan="2"><munsell 1="" 5y="" 8="" or="" similar=""></munsell></td><td colspan="2"><munsell 1="" 5y="" 8="" or="" similar=""></munsell></td></munsell>	/ 8/1 or similar>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>		<munsell 1="" 5y="" 8="" or="" similar=""></munsell>	
External dimensio	n HxWxD		1,710(1,650 without	1,710(1,650 without	1,710(1,650 without	1,710(1,650 without	1,710(1,650 without	1,710(1,650 without
		mm	legs) x 920 x 760	legs) x 920 x 760	legs) x 920 x 760	legs) x 920 x 760	legs) x 920 x 760	legs) x 920 x 760
			67-3/8(65 without legs)	67-3/8(65 without legs)	67-3/8(65 without legs)	67-3/8(65 without legs)	67-3/8(65 without legs)	67-3/8(65 without legs)
		in.	x 36-1/4 x 29-15/16	x 36-1/4 x 29-15/16	x 36-1/4 x 29-15/16	x 36-1/4 x 29-15/16	x 36-1/4 x 29-15/16	x 36-1/4 x 29-15/16
Protection	High pressure pr	otection	High pressure sensor	, High pressure switch	High pressure sensor	, High pressure switch	High pressure sensor	, High pressure switch
devices			at 4.15MP	a (601 psi)	at 4.15MP	a (601 psi)	at 4.15MP	a (601 psi)
	Inverter circuit (CC	MP./FAN)	Over-heat protection,	Over-current protection	Over-heat protection,	Over-current protection	Over-heat protection,	Over-current protection
	Compressor		Over-heat	protection	Over-heat	protection	Over-heat	protection
	Fan motor		Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch
Refrigerant	Type x original c	harge	R410A x 9.5kg (21lbs)	R410A x 9.5kg (21lbs)	R410A x 9.5kg (21lbs)	R410A x 9.5kg (21lbs)	R410A x 9.5kg (21lbs)	R410A x 9.5kg (21lbs)
Net weight		kg (lbs)	240(530)	240(530)	240(530)	240(530)	240(530)	240(530)
Heat exchanger			Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube
Pipe between unit	High pressure	mm (in.)	15.88(5/8) Brazed	15.88(5/8) Brazed	15.88(5/8) Brazed	19.05(3/4) Brazed	19.05(3/4) Brazed	19.05(3/4) Brazed
and distributor	Low pressure	mm (in.)	19.05(3/4) Brazed	-	19.05(3/4) Brazed	-	22.2(7/8) Brazed	-
Optional parts	*		Outdoor Twinning	kit: CMY-R100VBK	Outdoor Twinning	kit: CMY-R100VBK	Outdoor Twinning	kit: CMY-R100VBK
			Joint: CMY-Y102SS-G2,CM	Y-Y102LS-G2,CMY-R160-J1	Joint: CMY-Y102SS-G2,CM	Y-Y102LS-G2,CMY-R160-J1	Joint: CMY-Y102SS-G2,CM	Y-Y102LS-G2,CMY-R160-J1
			Main BC controller: CMB-F	P108,1010,1013,1016V-GA1	Main BC controller: CMB-P	108,1010,1013,1016V-GA1	Main BC controller: CMB-F	2108,1010,1013,1016V-GA1
			Sub BC controller: CMB-P104	.108V-GB1.CMB-P1016V-HB1	Sub BC controller: CMB-P104	.108V-GB1.CMB-P1016V-HB1	Sub BC controller: CMB-P104	.108V-GB1.CMB-P1016V-HB1

Notes:

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		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 -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.

OUTDOOR UNIT R2 Series PURY-P YSJM-A(1)(-BS)



► Specifications

Model			PURY-P500YSJM-A1(-BS)	PURY-P550YSJM-A(-BS)	PURY-P600YSJM-A(-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	*1	kW	56.0	56.0 63.0	
(Nominal)	*1	BTU / h	191,100	215,000	235,400
	Power input	kW	14.73	17.30	19.65
	Current input	Α	24.8-23.6-22.7	29.2-27.7-26.7	33.1-31.5-30.3
	EER	kW / kW	3.80	3.64	3.51
Temp. range of	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
cooling *3	Outdoor	D.B.	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)
Heating capacity	*2	kW	63.0	69.0	76.5
(Nominal)	*2	BTU / h	215,000	235,400	261,000
	Power input	kW	15.07	16.95	19.07
	Current input	Α	25.4-24.1-23.2	28.6-27.1-26.2	32.1-30.5-29.4
	COP	kW / kW	4.18	4.07	4.01
Temp. range of	Indoor	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)
heating *3	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)
Indoor unit	Total capacity		50~150 % of outdoor unit capacity	50~150 % of outdoor unit capacity	50~150 % of outdoor unit capacity
connectable	Model / Quantity		P15~P250 / 1~50	P15~P250 / 2~50	P15~P250 / 2~50
Sound pressure le (measured in anec		dB <a>	61	61	62
Power pressure level (measured in anechoic room) dB <a>		dB <a>	81	81	82
Refrigerant piping	High pressure	mm (in.)	22.2(7/8) Brazed	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed
diameter	Low pressure	mm (in.)	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed
Set Model					

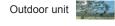
ulailletei	Low pressure	1111111 (111.)	20.30(1-1)	10) blazeu	20.30(1-1)	10) Diazeu	20.30(1-1)	10) Diazeu
Set Model								
Model			PURY- P200YJM-A(-BS)	PURY- P300YJM-A(-BS)	PURY- P250YJM-A(-BS)	PURY- P300YJM-A(-BS)	PURY- P300YJM-A(-BS)	PURY- P300YJM-A(-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m³/min	185	185	185	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
	Driving mechanis	sm	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	rect-driven by motor	Inverter-control, Dir	rect-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
*4	External static pi	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.4	7.8	6.8	7.8	7.8	7.8
	Case heater	kW	0.035(240 V)	0.045(240 V)	0.035(240 V)	0.045(240 V)	0.045(240 V)	0.045(240 V)
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) (+powder coating smiller) (+po			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>		
External dimension	n HxWxD	mm	1,710(1,650 without legs) x 920 x 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 pr	otection		High pressure switch a (601 psi)		High pressure switch (601 psi)	High pressure sensor at 4.15MP	High pressure switch (601 psi)
	Inverter circuit (CC	MP./FAN)	Over-heat protection,	Over-current protection	Over-heat protection,	Over-current protection	Over-heat protection, 0	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
Refrigerant	Type x original c	harge	R410A x 9.5kg (21lbs)	R410A x 9.5kg (21lbs)	R410A x 9.5kg (21lbs)	R410A x 9.5kg (21lbs)	R410A x 9.5kg (21lbs)	R410A x 9.5kg (21lbs)
Net weight		kg (lbs)	240(530)	245(541)	240(530)	245(541)	245(541)	245(541)
Heat exchanger			Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube	Salt-resistant cross	s fin & copper tube
Pipe between unit	High pressure	mm (in.)	15.88(5/8) Brazed	19.05(3/4) Brazed	19.05(3/4) Brazed	19.05(3/4) Brazed	19.05(3/4) Brazed	19.05(3/4) Brazed
and distributor	Low pressure	mm (in.)	19.05(3/4) Brazed	-	22.2(7/8) Brazed	-	22.2(7/8) Brazed	-
Optional parts			Outdoor Twinning	kit: CMY-R100VBK	Outdoor Twinning	kit: CMY-R100VBK	Outdoor Twinning	kit: CMY-R100VBK
			Joint: CMY-Y102SS-G2,CM	Y-Y102LS-G2,CMY-R160-J1	Joint: CMY-Y102SS-G2,CM	Y-Y102LS-G2,CMY-R160-J1	Joint: CMY-Y102SS-G2,CM	IY-Y102LS-G2,CMY-R160-J1
			Main BC controller: CMB-P	108,1010,1013,1016V-GA1	Main BC controller: CMB-P	108,1010,1013,1016V-GA1	Main BC controller: CMB-P	P108,1010,1013,1016V-GA1

Notes:

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		Indoor	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 -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.

Outdoor unit



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^{*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.

^{*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 Series

PURY-P YSJM-A(1)(-BS)

► Specifications



Model			PURY-P600YSJM-A1(-BS)	PURY-P650YSJM-A(-BS)	PURY-P700YSJM-A(-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	*1	kW	69.0	73.0	80.0
(Nominal)	*1	BTU / h	235,400	249,100	273,000
	Power input	kW	19.16	21.53	23.95
	Current input	Α	32.3-30.7-29.6	36.3-34.5-33.2	40.4-38.4-37.0
	EER	kW / kW	3.60	3.39	3.34
Temp. range of	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
cooling *3	Outdoor	D.B.	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)
Heating capacity	*2	kW	76.5	81.5	88.0
(Nominal)	*2	BTU / h	261,000	278,100	300,300
	Power input	kW	18.61	20.47	22.33
	Current input	Α	31.4-29.8-28.7	34.5-32.8-31.6	37.6-35.8-34.5
	COP	kW / kW	4.11	3.98	3.94
Temp. range of	Indoor	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)
heating *3	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)
Indoor unit	Total capacity		50~150 % of outdoor unit capacity	50~150 % of outdoor unit capacity	50~150 % of outdoor unit capacity
connectable	Model / Quantity		P15~P250 / 2~50	P15~P250 / 2~50	P15~P250 / 2~50
Sound pressure le (measured in anec		dB <a>	62	62.5	63
Power pressure level (measured in anechoic room)		dB <a>	82	82.5	83
Refrigerant piping	High pressure	mm (in.)	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed
diameter	Low pressure	mm (in.)	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed	34.93(1-3/8) Brazed
Set Model					

Set Model								
Model			PURY-	PURY-	PURY-	PURY-	PURY-	PURY-
			P250YJM-A(-BS)	P350YJM-A(-BS)	P300YJM-A(-BS)	P350YJM-A(-BS)	P300YJM-A(-BS)	P400YJM-A(-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m³/min	185	225	185	225	185	225
		L/s	3,083	3,750	3,083	3,750	3,083	3,750
		cfm	6,532	7,945	6,532	7,945	6,532	7,945
	Driving mechanis	sm	Inverter-control, Dir	rect-driven by motor	Inverter-control, Dir	rect-driven by motor	Inverter-control, Di	rect-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
*	4 External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	rmetic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	6.8	9.9	7.8	9.9	7.8	10.2
	Case heater	kW	0.035(240 V)	0.045(240 V)	0.045(240 V)	0.045(240 V)	0.045(240 V)	0.045(240 V)
External finish		•	Pre-coated galva	nized steel sheets	Pre-coated galvanized steel sheets		Pre-coated galvanized steel sheets	
			(+powder coati	ng for -BS type)	(+powder coati	ng for -BS type)	(+powder coati	ing for -BS type)
			<munsell 5y<="" td=""><td>/ 8/1 or similar></td><td colspan="2"><munsell 1="" 5y="" 8="" or="" similar=""></munsell></td><td colspan="2"><munsell 1="" 5y="" 8="" or="" similar=""></munsell></td></munsell>	/ 8/1 or similar>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>		<munsell 1="" 5y="" 8="" or="" similar=""></munsell>	
External dimension	on HxWxD		1,710(1,650 without	1,710(1,650 without	1,710(1,650 without	1,710(1,650 without	1,710(1,650 without	1,710(1,650 without
		mm	legs) x 920 x 760	legs) x 1,220 x 760	legs) x 920 x 760	legs) x 1,220 x 760	legs) x 920 x 760	legs) x 1,220 x 760
			67-3/8(65 without leas) x	67-3/8(65 without leas) x	67-3/8(65 without leas) x	67-3/8(65 without legs) x	67-3/8(65 without leas) x	67-3/8(65 without legs) x
		in.	36-1/4 x 29-15/16	48-1/16 x 29-15/16	36-1/4 x 29-15/16	48-1/16 x 29-15/16	36-1/4 x 29-15/16	48-1/16 x 29-15/16
Protection	High pressure pr	otection	High pressure sensor	High pressure switch	High pressure sensor	, High pressure switch	High pressure sensor	r, High pressure switch
devices			at 4.15MP	a (601 psi)		a (601 psi)		Pa (601 psi)
	Inverter circuit (CC	MP./FAN)	Over-heat protection,	Over-current protection	Over-heat protection,	Over-current protection	Over-heat protection,	Over-current protection
	Compressor	•	Over-heat	protection	Over-heat	protection	Over-heat	t protection
	Fan motor		Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch
Refrigerant	Type x original c	harge	R410A x 9.5kg (21lbs)	R410A x 11.8kg (27lbs)	R410A x 9.5kg (21lbs)	R410A x 11.8kg (27lbs)	R410A x 9.5kg (21lbs)	R410A x 11.8kg (27lbs)
Net weight		kg (lbs)	240(530)	270(596)	245(541)	270(596)	245(541)	270(596)
Heat exchanger			Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube
Pipe between uni	it High pressure	mm (in.)	19.05(3/4) Brazed	19.05(3/4) Brazed	19.05(3/4) Brazed	19.05(3/4) Brazed	19.05(3/4) Brazed	22.2(7/8) Brazed
and distributor	Low pressure	mm (in.)	22.2(7/8) Brazed	-	22.2(7/8) Brazed	-	22.2(7/8) Brazed	-
Optional parts	*		Outdoor Twinning	kit: CMY-R100VBK	Outdoor Twinning	kit: CMY-R100VBK	Outdoor Twinning	kit: CMY-R200VBK
				Y-Y102LS-G2,CMY-R160-J1	Joint: CMY-Y102SS-G2,CM	Y-Y102LS-G2,CMY-R160-J1		IY-Y102LS-G2,CMY-R160-J1
			Main BC controller: CMB-F	P108,1010,1013,1016V-GA1	Main BC controller: CMB-P	P108,1010,1013,1016V-GA1	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	4,108V-GB1,CMB-P1016V-HB1

Notes:

٠,	i, 2 rotting 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 -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.

OUTDOOR UNIT R2 Series PURY-P YSJM-A(1)(-BS)



► Specifications

Model			PURY-P700YSJM-A1(-BS)	PURY-P750YSJM-A(-BS)	PURY-P800YSJM-A(-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 *1 kW			80.0	85.0	90.0
(Nominal)	*1	BTU / h	273,000	290,000	307,100
	Power input	kW	23.39	26.47	28.30
	Current input	Α	39.4-37.5-36.1	44.6-42.4-40.9	47.7-45.3-43.7
	EER	kW / kW	3.42	3.21	3.18
Temp. range of	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
cooling *3	Outdoor	D.B.	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)
Heating capacity	*2	kW	88.0	95.0	100.0
(Nominal)	*2	BTU / h	300,300	324,100	341,200
	Power input	kW	21.78	24.05	26.04
	Current input A		36.7-34.9-33.6	40.6-38.5-37.1	43.9-41.7-40.2
	COP	kW / kW	4.04	3.95	3.84
Temp. range of	Indoor	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)
heating *3	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)
Indoor unit	Total capacity		50~150 % of outdoor unit capacity	50~150 % of outdoor unit capacity	50~150 % of outdoor unit capacity
connectable	Model / Quantity		P15~P250 / 2~50	P15~P250 / 2~50	P15~P250 / 2~50
Sound pressure lev (measured in anec			63	63.5	64
Power pressure lev (measured in anec			83	83.5	84
Refrigerant piping	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			·	·	·

ulailletei	Low pressure	1111111 (111.)	34.33(1-3	10) blazeu	34.33(1-3	10) Diazeu	34.33(1-3	0) Blazeu
Set Model								
Model			PURY- P350YJM-A(-BS)	PURY- P350YJM-A(-BS)	PURY- P350YJM-A(-BS)		PURY- P400YJM-A(-BS)	PURY- P400YJM-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	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
	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
*4	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	9.9	9.9	9.9	10.2	10.2	10.2
	Case heater	kW	0.045(240 V)	0.045(240 V)	0.045(240 V)	0.045(240 V)	0.045(240 V)	0.045(240 V)
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>	
External dimension	n HxWxD	mm	1,710(1,650 without legs) x 1,220 x 760	1,710(1,650 without legs) x 1,220 x 760	1,710(1,650 without legs) x 1,220 x 760	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		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 4.15MPa (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./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
Refrigerant	Type x original cl	harge	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)
Net weight		kg (lbs)	270(596)	270(596)	270(596)	270(596)	270(596)	270(596)
Heat exchanger	1 52 5		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Pipe between unit	High pressure	mm (in.)	19.05(3/4) Brazed	19.05(3/4) Brazed	19.05(3/4) Brazed	22.2(7/8) Brazed	22.2(7/8) Brazed	22.2(7/8) Brazed
and distributor	Low pressure	mm (in.)	28.58(1-1/8) Brazed	-	28.58(1-1/8) Brazed	-	28.58(1-1/8) Brazed	-
Optional parts			Outdoor Twinning kit: CMY-R200VBK		Outdoor Twinning kit: CMY-R200VBK		Outdoor Twinning kit: CMY-R200VBK	
		Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1		Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1		Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1		
		Main BC controller: CMB-P1016V-HA1		Main BC controller: CMB-P1016V-HA1		Main BC controller: CMB-P1016V-HA1		
		Sub BC controller: CMB-P104	400V OD4 OMB D4040VIID4	0 00 01/0 0/0	.108V-GB1.CMB-P1016V-HB1	Sub BC controller: CMB-P104	4001 / OD 4 OND D40401 / UD 4	

Notes:

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		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 -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.

Outdoor unit

Outdoor unit

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^{*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.

^{*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 Series

PURY-P YSJM-A(1) (-BS)

► Specifications



Model			PURY-P800YSJM-A1(-BS)	PURY-P850YSJM-A(-BS)	PURY-P900YSJM-A(-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	*1	kW	90.0	96.0	101.0
(Nominal)	*1	BTU / h	307,100	327,600	344,600
	Power input	kW	26.62	29.26	30.23
	Current input	Α	44.9-42.6-41.1	49.3-46.9-45.2	51.0-48.4-46.7
	EER	kW / kW	3.38	3.28	3.34
Temp. range of	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
cooling *3	Outdoor	D.B.	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)
Heating capacity	*2	kW	100.0	108.0	113.0
(Nominal)	*2	BTU / h	341,200	368,500	385,600
	Power input	kW	25.77	28.42	30.05
	Current input	Α	43.5-41.3-39.8	47.9-45.5-43.9	50.7-48.1-46.4
	COP	kW / kW	3.88	3.80	3.76
Temp. range of	Indoor	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)
heating *3	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)
Indoor unit	Total capacity		50~150 % of outdoor unit capacity	50~150 % of outdoor unit capacity	50~150 % of outdoor unit capacity
connectable	Model / Quantity		P15~P250 / 2~50	P15~P250 / 2~50	P15~P250 / 2~50
Sound pressure le (measured in anec		dB <a>	64	64.5	65
Power pressure level (measured in anechoic room)		dB <a>	84	84.5	85
Refrigerant piping	High pressure	mm (in.)	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed
diameter	Low pressure	mm (in.)	34.93(1-3/8) Brazed	41.28(1-5/8) Brazed	41.28(1-5/8) Brazed
Set Model			•		

Set Model								
Model			PURY- P350YJM-A(-BS)	PURY- P450YJM-A(-BS)	PURY- P400YJM-A(-BS)	PURY- P450YJM-A(-BS)	PURY- P450YJM-A(-BS)	PURY- P450YJM-A(-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Air flow rate	m³/min	225	360	225	360	360	360
		L/s	3,750	6,000	3,750	6,000	6,000	6,000
		cfm	7,945	12,712	7,945	12,712	12,712	12,712
	Driving mechanis	sm	Inverter-control, Dir	rect-driven by motor	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 2	0.92 x 1	0.92 x 2	0.92 x 2	0.92 x 2
*4	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	9.9	11.6	10.2	11.6	11.6	11.6
	Case heater	kW	0.045(240 V)	0.045(240 V)	0.045(240 V)	0.045(240 V)	0.045(240 V)	0.045(240 V)
External finish		•	Pre-coated galva	nized steel sheets			Pre-coated galvanized steel sheets	
			(+powder coating for -BS type)		(+powder coating for -BS type)		(+powder coating for -BS type)	
			<munsell 5y<="" td=""><td>/ 8/1 or similar></td><td colspan="2"><munsell 1="" 5y="" 8="" or="" similar=""></munsell></td><td colspan="2"><munsell 1="" 5y="" 8="" or="" similar=""></munsell></td></munsell>	/ 8/1 or similar>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>		<munsell 1="" 5y="" 8="" or="" similar=""></munsell>	
External dimension	n HxWxD		1,710(1,650 without	1,710(1,650 without	1,710(1,650 without	1,710(1,650 without	1,710(1,650 without	1,710(1,650 without
		mm	legs) x 1,220 x 760	legs) x 1,750 x 760	legs) x 1,220 x 760	legs) x 1,750 x 760	legs) x 1,750 x 760	legs) x 1,750 x 760
		in.	67-3/8(65 without legs)	67-3/8(65 without legs)	67-3/8(65 without legs)	67-3/8(65 without legs)	67-3/8(65 without legs)	67-3/8(65 without legs)
		III.	x 48-1/16 x 29-15/16	x 68-15/16 x 29-15/16	x 48-1/16 x 29-15/16	x 68-15/16 x 29-15/16	x 68-15/16 x 29-15/16	x 68-15/16 x 29-15/16
Protection	High pressure pr	otection	High pressure sensor	, High pressure switch	High pressure sensor	, High pressure switch	High pressure sensor	High pressure switch
devices			at 4.15MP	a (601 psi)	at 4.15MPa (601 psi)		at 4.15MPa (601 psi)	
	Inverter circuit (CC	MP./FAN)	Over-heat protection,	Over-current protection	Over-heat protection,	Over-current protection	Over-heat protection,	Over-current protection
	Compressor		Over-heat	protection	Over-heat	protection	Over-heat	protection
	Fan motor		Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch
Refrigerant	Type x original c	harge	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)
Net weight		kg (lbs)	270(596)	320(706)	270(596)	320(706)	320(706)	320(706)
Heat exchanger			Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube
Pipe between unit	High pressure	mm (in.)	19.05(3/4) Brazed	22.2(7/8) Brazed	22.2(7/8) Brazed	22.2(7/8) Brazed	22.2(7/8) Brazed	22.2(7/8) Brazed
and distributor	Low pressure	mm (in.)	28.58(1-1/8) Brazed	-	28.58(1-1/8) Brazed	-	28.58(1-1/8) Brazed	-
Optional parts		•	Outdoor Twinning k	it: CMY-R100XLVBK	Outdoor Twinning k	it: CMY-R200XLVBK	Outdoor Twinning k	it: CMY-R200XLVBK
				Y-Y102LS-G2,CMY-R160-J1		Y-Y102LS-G2,CMY-R160-J1	Joint: CMY-Y102SS-G2,CM	Y-Y102LS-G2,CMY-R160-J1
			Main BC controller	: CMB-P1016V-HA1	Main BC controller:	: CMB-P1016V-HA1	Main BC controller	CMB-P1016V-HA1
			Sub BC controller: CMB-P104	,108V-GB1,CMB-P1016V-HB1	Sub BC controller: CMB-P104	,108V-GB1,CMB-P1016V-HB1	Sub BC controller: CMB-P104	,108V-GB1,CMB-P1016V-HB1

Notes:

٠,	2 Nominal conditio	Tomas conducte									
		Indoor	Indoor Outdoor Pipe		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 -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.

OUTDOOR UNIT R2 Series - High COP **PURY-EP YJM-A(-BS)**



► Specifications

Model			PURY-EP200YJM-A(-BS)	PURY-EP250YJM-A(-BS)	PURY-EP300YJM-A(-BS)	PURY-EP350YJM-A(-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	*1	kW	22.4	28.0	33.5	40.0
(Nominal)		BTU / h	76.400	95.500	114.300	136.500
(i torriiriar)	Power input	kW	5.07	6.76	8.25	10.28
	Current input	A	8.5-8.1-7.8	11.4-10.8-10.4	13.9-13.2-12.7	17.3-16.4-15.8
	EER	kW / kW	4.41	4.14	4.06	3.89
Temp. range of	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	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)
Heating capacity	*2		25.0	31.5	37.5	45.0
(Nominal)		BTU / h	85,300	107,500	128.000	153,500
(INUITIIIIai)	Power input	kW	5.56	7.15	8.60	10.58
	Current input	A	9.3-8.9-8.5	12.0-11.4-11.0	14.5-13.7-13.2	17.8-16.9-16.3
	COP	kW / kW				
Tama rango of			4.49	4.40	4.36	4.25
Temp. range of	Indoor	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	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	Total capacity		50~150 % of outdoor unit capacity			
connectable	Model / Quantity	1	P15~P250 / 1~20	P15~P250 / 1~25	P15~P250 / 1~30	P15~P250 / 1~35
Sound pressure le (measured in aneo	choic room)	dB <a>	57	60	60	61
Power pressure le (measured in ane		dB <a>	77	80	80	81
Refrigerant piping	High pressure	mm (in.)	15.88(5/8) Brazed	19.05(3/4) Brazed	19.05(3/4) Brazed	19.05(3/4) Brazed
diameter	Low pressure	mm (in.)	19.05(3/4) Brazed	22.2(7/8) Brazed	22.2(7/8) Brazed	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 2
	Air flow rate	m³/min	185	225	225	360
		L/s	3.083	3,750	3.750	6.000
		cfm	6,532	7,945	7.945	12.712
	Driving mechanis		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 2
*4	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity	000.	Inverter scroll hermetic compressor			
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output kW		5.4	6.8	7.8	9.9
	Case heater	kW	0.035(240 V)	0.045(240 V)	0.045(240 V)	0.045(240 V)
External finish	,		Pre-coated galvanized steel sheets (+powder coating for -BS type)	Pre-coated galvanized steel sheets (+powder coating for -BS type)	Pre-coated galvanized steel sheets (+powder coating for -BS type)	Pre-coated galvanized steel sheets (+powder coating for -BS type)
External dimensio	n HxWxD	mm	<munsell 1="" 5y="" 8="" or="" similar=""> 1,710(1,650 without legs) x 920 x 760</munsell>	<munsell 1="" 5y="" 8="" or="" similar=""> 1,710(1,650 without legs) x 1,220 x 760</munsell>	<munsell 1="" 5y="" 8="" or="" similar=""> 1,710(1,650 without legs) x 1,220 x 760</munsell>	<munsell 1="" 5y="" 8="" or="" similar=""> 1,710(1,650 without legs) x 1,750 x 760</munsell>
		in.	67-3/8(65 without legs) x 36-1/4 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	67-3/8(65 without legs) x 68-15/16 x 29-15/16
Protection devices	High pressure pr	otection	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 (CO	MP./FAN)	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 ch	harge	R410A x 9.5kg (21lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)
Net weight		kg (lbs)	240(530)	270(596)	270(596)	320(706)
Heat exchanger		/	Salt-resistant cross fin & copper tube			
Optional parts			Joint: CMY-Y102SS-G2.CMY-Y102LS-G2.	Joint: CMY-Y102SS-G2.CMY-Y102LS-G2.	Joint: CMY-Y102SS-G2.CMY-Y102LS-G2.	Joint: CMY-Y102SS-G2.CMY-Y102LS-G2.
			CMY-R160-J1	CMY-R160-J1	CMY-R160-J1	CMY-R160-J1
			BC controller: CMB-P104,105,106,108, 1010,1013,1016V-G1 Main BC controller: CMB-P108,1010,	BC controller: CMB-P104,105,106,108, 1010,1013,1016V-G1 Main BC controller: CMB-P108,1010,	BC controller: CMB-P104,105,106,108, 1010,1013,1016V-G1 Main BC controller: CMB-P108,1010,	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	1013,1016V-GA1 Sub BC controller: CMB-P104,108V-GB1, CMB-P1016V-HB1	1013,1016V-GA1 Sub BC controller: CMB-P104,108V-GB1, CMB-P1016V-HB1	1013,1016V-GA1 Sub BC controller: CMB-P104,108V-GB1 CMB-P1016V-HB1	

Notes:

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		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 -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.

Outdoor unit

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^{*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.

^{*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 Series - High COP PURY-EP YSJM-A(-BS)



► Specifications

Model			PURY-EP400YSJM-A(-BS)	PURY-EP450YSJM-A(-BS)	PURY-EP500YSJM-A(-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	*1	kW	45.0	50.0	56.0
(Nominal)	*1	BTU / h	153,500	170,600	191,100
	Power input	kW	10.41	11.99	13.62
	Current input	Α	17.5-16.6-16.0	20.2-19.2-18.5	22.9-21.8-21.0
	EER	kW / kW	4.32	4.17	4.11
Temp. range of	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
cooling *3	Outdoor	D.B.	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)
Heating capacity	*2	kW	50.0	56.0	63.0
(Nominal)	*2	BTU / h	170,600	191,100	215,000
	Power input	kW	11.36	12.87	14.38
	Current input	Α	19.1-18.2-17.5	21.7-20.6-19.8	24.2-23.0-22.2
	COP	kW / kW	4.40	4.35	4.38
Temp. range of	Indoor	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)
heating *3	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)
Indoor unit	Total capacity		50~150 % of outdoor unit capacity	50~150 % of outdoor unit capacity	50~150 % of outdoor unit capacity
connectable	Model / Quantity		P15~P250 / 1~40	P15~P250 / 1~40	P15~P250 / 1~50
Sound pressure le (measured in anec		dB <a>	60	62	62
Power pressure level		dB <a>	80	82	82
Refrigerant piping	High pressure	mm (in.)	22.2(7/8) Brazed	22.2(7/8) Brazed	22.2(7/8) Brazed
diameter	Low pressure	mm (in.)	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed
Set Model					

Model			PURY-	PURY-	PURY-	PURY-	PURY-	PURY-
					EP200YJM-A(-BS)	EP250YJM-A(-BS)	EP200YJM-A(-BS)	EP300YJM-A(-BS)
	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	225	185	225
		L/s	3,083	3,083	3,083	3,750	3,083	3,750
		cfm	6,532	6,532	6,532	7,945	6,532	7,945
	Driving mechanis	m	Inverter-control, Dir	rect-driven by motor	Inverter-control, Dir	rect-driven by motor	Inverter-control, Dir	rect-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
*4	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.4	5.4	5.4	6.8	5.4	7.8
	Case heater	kW	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.045(240 V)	0.035(240 V)	0.045(240 V)
External finish	•	•	Pre-coated galva	nized steel sheets	Pre-coated galva	nized steel sheets	Pre-coated galva	nized steel sheets
			(+powder coating for -BS type)		(+powder coating for -BS type)		(+powder coating for -BS type)	
			<munsell 5y<="" td=""><td>8/1 or similar></td><td colspan="2"><munsell 1="" 5y="" 8="" or="" similar=""></munsell></td><td colspan="2"><munsell 1="" 5y="" 8="" or="" similar=""></munsell></td></munsell>	8/1 or similar>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>		<munsell 1="" 5y="" 8="" or="" similar=""></munsell>	
External dimension	n HxWxD		1,710(1,650 without	1,710(1,650 without	1,710(1,650 without	1,710(1,650 without	1,710(1,650 without	1,710(1,650 without
		mm	legs) x 920 x 760	legs) x 920 x 760	legs) x 920 x 760	legs) x 1,220 x 760	legs) x 920 x 760	legs) x 1,220 x 760
			67-3/8(65 without legs)	67-3/8(65 without legs)	67-3/8(65 without legs)	67-3/8(65 without legs)	67-3/8(65 without legs)	67-3/8(65 without legs)
		in.	x 36-1/4 x 29-15/16	x 36-1/4 x 29-15/16	x 36-1/4 x 29-15/16	x 48-1/16 x 29-15/16	x 36-1/4 x 29-15/16	x 48-1/16 x 29-15/16
Protection	High pressure pre	otection	High pressure sensor	High pressure switch	High pressure sensor	High pressure switch	High pressure sensor	High pressure switch
devices				a (601 psi)		a (601 psi)		a (601 psi)
	Inverter circuit (CO	MP./FAN)	Over-heat protection.	Over-current protection	Over-heat protection.	Over-current protection	Over-heat protection.	Over-current protection
	Compressor		Over-heat	protection	Over-heat	protection		protection
	Fan motor		Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch
Refrigerant	Type x original ch	narge	R410A x 9.5kg (21lbs)	R410A x 9.5kg (21lbs)	R410A x 9.5kg (21lbs)	R410A x 11.8kg (27lbs)	R410A x 9.5kg (21lbs)	R410A x 11.8kg (27lbs)
Net weight		kg (lbs)	240(530)	240(530)	240(530)	270(596)	240(530)	270(596)
Heat exchanger		3 (/	Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube
Pipe between unit	High pressure	mm (in.)	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
	Low pressure	mm (in.)	19.05(3/4) Brazed	-	19.05(3/4) Brazed	-	19.05(3/4) Brazed	-
Optional parts		()		kit: CMY-R100VBK		kit: CMY-R100VBK		kit: CMY-R100VBK
- b - viran banaa				Y-Y102LS-G2.CMY-R160-J1		Y-Y102LS-G2.CMY-R160-J1		Y-Y102LS-G2.CMY-R160-J1
				2108.1010.1013.1016V-GA1		108.1010.1013.1016V-GA1		2108.1010.1013.1016V-GA1
			Sub BC controller: CMB-P104			.108V-GB1.CMB-P1016V-HB1		.108V-GB1.CMB-P1016V-HB1

Notes:

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		Indoor	door Outdoor P		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 -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.

OUTDOOR UNIT R2 Series - High COP PURY-EP YSJM-A(1)(-BS)



► Specifications

Model			PURY-EP500YSJM-A1(-BS)	PURY-EP550YSJM-A(-BS)	PURY-EP600YSJM-A(-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	*1	kW	56.0	63.0	69.0	
(Nominal)	*1	BTU / h	191,100	215,000	235,400	
	Power input	kW	13.96	15.40	16.87	
	Current input	Α	23.5-22.3-21.5	25.9-24.6-23.8	28.4-27.0-26.0	
	EER	kW / kW	4.01	4.09	4.09	
Temp. range of	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	
cooling *3	Outdoor	D.B.	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)	
Heating capacity	*2	kW	63.0	69.0	76.5	
(Nominal)	*2	BTU / h	215,000	235,400	261,000	
	Power input	kW	14.78	15.93	17.38	
	Current input A		24.9-23.7-22.8	26.8-25.5-24.6	29.3-27.8-26.8	
	COP	kW / kW	4.26	4.33	4.40	
Temp. range of	Indoor	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	
heating *3	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)	
Indoor unit	Total capacity		50~150 % of outdoor unit capacity	50~150 % of outdoor unit capacity	50~150 % of outdoor unit capacity	
connectable	Model / Quantity		P15~P250 / 1~50	P15~P250 / 2~50	P15~P250 / 2~50	
Sound pressure le (measured in anec		dB <a>	63	63	63	
Power pressure level (measured in anechoic room)		dB <a>	83	83	83	
Refrigerant piping	High pressure	mm (in.)	22.2(7/8) 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			·	•	·	

a i i i i	LOW product		20.00(1 1	70) Bluzcu	20.00(1 1	70) DIGECC	20.00(1 1	70) DIUZCU
Set Model								
Model			PURY-	PURY-	PURY-		PURY-	PURY-
			EP250YJM-A(-BS)	EP250YJM-A(-BS)	EP250YJM-A(-BS)	EP300YJM-A(-BS)	EP300YJM-A(-BS)	EP300YJM-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	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
	Driving mechanis	sm	Inverter-control, Dir	rect-driven by motor	Inverter-control, Dir	rect-driven by motor	Inverter-control, Dir	rect-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
*4	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	6.8	6.8	6.8	7.8	7.8	7.8
	Case heater	kW	0.045(240 V)	0.045(240 V)	0.045(240 V)	0.045(240 V)	0.045(240 V)	0.045(240 V)
External finish			Pre-coated galva	nized steel sheets	s Pre-coated galvanized steel sheets		Pre-coated galvanized steel sheets	
			(+powder coating for -BS type)		(+powder coating for -BS type)		(+powder coating for -BS type)	
			<munsell 5y<="" td=""><td>/ 8/1 or similar></td><td><munsell 5y<="" td=""><td>/ 8/1 or similar></td><td><munsell 5y<="" td=""><td>/ 8/1 or similar></td></munsell></td></munsell></td></munsell>	/ 8/1 or similar>	<munsell 5y<="" td=""><td>/ 8/1 or similar></td><td><munsell 5y<="" td=""><td>/ 8/1 or similar></td></munsell></td></munsell>	/ 8/1 or similar>	<munsell 5y<="" td=""><td>/ 8/1 or similar></td></munsell>	/ 8/1 or similar>
External dimension	n HxWxD		1,710(1,650 without	1,710(1,650 without	1,710(1,650 without	1,710(1,650 without	1,710(1,650 without	1,710(1,650 without
		mm	legs) x 1,220 x 760	legs) x 1,220 x 760	legs) x 1,220 x 760	legs) x 1,220 x 760	legs) x 1,220 x 760	legs) x 1,220 x 760
			67-3/8(65 without legs)	67-3/8(65 without legs)	67-3/8(65 without legs)	67-3/8(65 without legs)	67-3/8(65 without legs)	67-3/8(65 without legs
		in.	x 48-1/16 x 29-15/16	x 48-1/16 x 29-15/16	x 48-1/16 x 29-15/16	x 48-1/16 x 29-15/16	x 48-1/16 x 29-15/16	x 48-1/16 x 29-15/16
Protection	High pressure pr	otection	High pressure sensor	High pressure switch	High pressure sensor, High pressure switch		High pressure sensor, High pressure switch	
devices			at 4.15MP	a (601 psi)	at 4.15MPa (601 psi)		at 4.15MPa (601 psi)	
	Inverter circuit (CC	MP./FAN)	Over-heat protection,	Over-current protection	Over-heat protection,	Over-current protection	Over-heat protection,	Over-current protection
	Compressor		Over-heat	protection	Over-heat	protection	Over-heat	protection
	Fan motor		Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch
Refrigerant	Type x original c	harge	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)
Net weight		kg (lbs)	270(596)	270(596)	270(596)	270(596)	270(596)	270(596)
Heat exchanger			Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube
Pipe between unit	High pressure	mm (in.)	19.05(3/4) Brazed	19.05(3/4) Brazed	19.05(3/4) Brazed	19.05(3/4) Brazed	19.05(3/4) Brazed	19.05(3/4) Brazed
and distributor	Low pressure	mm (in.)	22.2(7/8) Brazed	-	22.2(7/8) Brazed	-	22.2(7/8) Brazed	-
Optional parts			Outdoor Twinning	kit: CMY-R100VBK	Outdoor Twinning	kit: CMY-R100VBK	Outdoor Twinning	kit: CMY-R100VBK
			Joint: CMY-Y102SS-G2,CM	Y-Y102LS-G2,CMY-R160-J1	Joint: CMY-Y102SS-G2,CM	Y-Y102LS-G2,CMY-R160-J1	Joint: CMY-Y102SS-G2,CM	Y-Y102LS-G2,CMY-R160-J1
			Main BC controller: CMB-P	2108,1010,1013,1016V-GA1	Main BC controller: CMB-P	P108,1010,1013,1016V-GA1	Main BC controller: CMB-F	2108,1010,1013,1016V-GA1
				.108V-GB1.CMB-P1016V-HB1		.108V-GB1.CMB-P1016V-HB1	Sub BC controller: CMB-P104	

Notes:

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		Indoor	Indoor Outdoor		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 -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.

Outdoor unit

Outdoor unit



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^{*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.

^{*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 Series - High COP

PURY-EP YSJM-A(1) (-BS)

► Specifications



Model			PURY-EP600YSJM-A1(-BS)	PURY-EP650YSJM-A(-BS)	PURY-EP700YSJM-A(-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	*1	kW	69.0	73.0	80.0
(Nominal)	*1	BTU / h	235,400	249,100	273,000
	Power input	kW	17.82	19.01	21.22
	Current input	Α	30.0-28.5-27.5	32.0-30.4-29.3	35.8-34.0-32.8
	EER	kW / kW	3.87	3.84	3.77
Temp. range of	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
cooling *3	Outdoor	D.B.	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)
Heating capacity	*2	kW	76.5	81.5	88.0
(Nominal)	*2	BTU / h	261,000	278,100	300,300
	Power input	kW	18.30	19.73	22.05
	Current input	Α	30.8-29.3-28.2	33.3-31.6-30.4	37.2-35.3-34.0
	COP	kW / kW	4.18	4.13	3.99
Temp. range of	Indoor	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)
heating *3	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)
Indoor unit	Total capacity		50~150 % of outdoor unit capacity	50~150 % of outdoor unit capacity	50~150 % of outdoor unit capacity
connectable	Model / Quantity		P15~P250 / 2~50	P15~P250 / 2~50	P15~P250 / 2~50
Sound pressure lev (measured in anec		dB <a>	63.5	63.5	64
Power pressure level (measured in anechoic room)		dB <a>	83.5	83.5	84
Refrigerant piping	High pressure	mm (in.)	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed
diameter	Low pressure	mm (in.)	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed	34.93(1-3/8) Brazed
Set Model			·	·	

Set Model								
Model			PURY-	PURY-	PURY-	PURY-	PURY-	PURY-
			EP250YJM-A(-BS)	EP350YJM-A(-BS)	EP300YJM-A(-BS)	EP350YJM-A(-BS)	EP350YJM-A(-BS)	EP350YJM-A(-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
Air flow rate m³/min		225	360	225	360	360	360	
		L/s	3,750	6,000	3,750	6,000	6,000	6,000
		cfm	7,945	12,712	7,945	12,712	12,712	12,712
	Driving mechanis	sm	Inverter-control, Dir	rect-driven by motor	Inverter-control, Di	rect-driven by motor	Inverter-control, Di	rect-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 2	0.92 x 1	0.92 x 2	0.92 x 2	0.92 x 2
*4	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	rmetic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	6.8	9.9	7.8	9.9	9.9	9.9
	Case heater	kW	0.045(240 V)	0.045(240 V)	0.045(240 V)	0.045(240 V)	0.045(240 V)	0.045(240 V)
External finish			Pre-coated galvanized steel sheets		Pre-coated galvanized steel sheets		Pre-coated galvanized steel sheets	
			(+powder coating for -BS type)		(+powder coating for -BS type)		(+powder coating for -BS type)	
			<munsell 5y<="" td=""><td colspan="2">5Y 8/1 or similar> <munsell 1="" 5y="" 8="" or="" similar=""></munsell></td><td colspan="2"><munsell 1="" 5y="" 8="" or="" similar=""></munsell></td></munsell>	5Y 8/1 or similar> <munsell 1="" 5y="" 8="" or="" similar=""></munsell>		<munsell 1="" 5y="" 8="" or="" similar=""></munsell>		
External dimension	n HxWxD	mm	1,710(1,650 without	1,710(1,650 without	1,710(1,650 without	1,710(1,650 without	1,710(1,650 without	1,710(1,650 without
		111111	legs) x 1,220 x 760	legs) x 1,750 x 760	legs) x 1,220 x 760	legs) x 1,750 x 760	legs) x 1,750 x 760	legs) x 1,750 x 760
		in.	67-3/8(65 without legs)	67-3/8(65 without legs)	67-3/8(65 without legs)	67-3/8(65 without legs)	67-3/8(65 without legs)	67-3/8(65 without legs)
		111.	x 48-1/16 x 29-15/16	x 68-15/16 x 29-15/16	x 48-1/16 x 29-15/16	x 68-15/16 x 29-15/16	x 68-15/16 x 29-15/16	x 68-15/16 x 29-15/16
Protection	High pressure pr	otection	High pressure sensor	, High pressure switch	High pressure sensor	High pressure switch	High pressure sensor	, High pressure switch
devices			at 4.15MP	a (601 psi)	at 4.15MPa (601 psi)		at 4.15MPa (601 psi)	
	Inverter circuit (CC	MP./FAN)	Over-heat protection,	Over-current protection	Over-heat protection,	Over-current protection	Over-heat protection,	Over-current protection
	Compressor			protection	Over-heat	protection		protection
	Fan motor		Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch
Refrigerant	Type x original c	harge	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)
Net weight		kg (lbs)	270(596)	320(706)	270(596)	320(706)	320(706)	320(706)
Heat exchanger		Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube	
Pipe between unit	High pressure	mm (in.)	19.05(3/4) Brazed	19.05(3/4) Brazed	19.05(3/4) Brazed	19.05(3/4) Brazed	19.05(3/4) Brazed	19.05(3/4) Brazed
and distributor	Low pressure	mm (in.)	22.2(7/8) Brazed	-	22.2(7/8) Brazed	-	28.58(1-1/8) Brazed	-
Optional parts			Outdoor Twinning k	it: CMY-R100XLVBK	Outdoor Twinning k	it: CMY-R100XLVBK	Outdoor Twinning k	it: CMY-R100XLVBK
			Joint: CMY-Y102SS-G2,CM	Y-Y102LS-G2,CMY-R160-J1	Joint: CMY-Y102SS-G2,CM	Y-Y102LS-G2,CMY-R160-J1	Joint: CMY-Y102SS-G2,CM	IY-Y102LS-G2,CMY-R160-J1
			Main BC controller: CMB-F	108,1010,1013,1016V-GA1	Main BC controller: CMB-F	P108,1010,1013,1016V-GA1	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	I,108V-GB1,CMB-P1016V-HB1

Notes:

٠,	2 14011111101 001101110				
		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 -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.

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

▶ Specifications



Model			PQRY-P200YHM-A	PQRY-P250YHM-A	PQRY-P300YHM-A
Power source			3-phase 4-wire 380-400-415V 50/60Hz	3-phase 4-wire 380-400-415V 50/60Hz	3-phase 4-wire 380-400-415V 50/60Hz
Cooling capacity	*1	kW	22.4	28.0	33.5
(Nominal)	*1	BTU / h	76,400	95,500	114,300
	Power input	kW	3.96	5.51	7.44
	Current input	Α	6.6-6.3-6.1	9.3-8.8-8.5	12.5-11.9-11.5
	EER	kW / kW	5.65	5.08	4.50
Temp. range of	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
cooling	Circulating water	°C	10.0~45.0°C(50~113°F)	10.0~45.0°C(50~113°F)	10.0~45.0°C(50~113°F)
Heating capacity	*2	kW	25.0	31.5	37.5
(Nominal)	*2	BTU / h	85,300	107,500	128,000
,	Power input	kW	4.12	5.80	8.15
	Current input	Α	6.9-6.6-6.3	9.7-9.3-8.9	13.7-13.0-12.5
	COP	kW / kW	6.06	5.43	4.60
Temp. range of	Indoor	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)
heating	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	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 le (measured in anec	vel	dB <a>	47	49	50
Refrigerant piping		mm (in.)	15.88(5/8) Brazed	19.05(3/4) Brazed	19.05(3/4) Brazed
diameter [O.D.]	Low pressure	mm (in.)	19.05(3/4) Brazed	22.2(7/8) Brazed	22.2(7/8) Brazed
Circulating water	Water flow rate	m ³ / h	5.76	5.76	5.76
Oir calating water	Water now rate	L/min	96	96	96
		cfm	3.4	3.4	3.4
	Pressure drop	kPa	17	17	17
	Operating volume range	m³ / h	4.5 ~ 7.2	4.5 ~ 7.2	4.5 ~ 7.2
Compressor	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	4.6	6.3	7.4
	Case heater	kW	0.035(240 V)	0.035(240 V)	0.035(240 V)
External finish			Acrylic painted steel plate	Acrylic painted steel plate	Acrylic painted steel plate
External dimension	n HxWxD	mm	1,160(1,100 without legs) x 880 x 550	1,160(1,100 without legs) x 880 x 550	1,160(1,100 without legs) x 880 x 550
		in.	45-11/16(43-5/16 without legs) x 34-11/16 x 21-11/16	45-11/16(43-5/16 without legs) x 34-11/16 x 21-11/16	45-11/16(43-5/16 without legs) x 34-11/16 x 21-11/16
Protection	High pressure pro	otection	High pressure sensor, High pressure switch at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)
devices	Inverter circuit (C		Over-heat protection, Over-current protection	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 ch	arge	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
· ·	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		

Notes:

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

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



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^{*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.

[&]quot;4 The ambient temperature of the neaf source unit needs to be kept below 40°CU.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 (Heat Recovery) Series

PQRY-P YSHM-A

▶ Specifications



Model			PQRY-P40	0YSHM-A	PQRY-P45	0YSHM-A	PQRY-P50	00YSHM-A
Power source			3-phase 4-wire 380	-400-415V 50/60Hz	3-phase 4-wire 380	-400-415V 50/60Hz	3-phase 4-wire 380	-400-415V 50/60Hz
Cooling capacity	*1	kW	45	5.0	50	0.0	56	6.0
(Nominal)	*1	BTU / h	153,	500	170.	,600	191	,100
,	Power input	kW	8.5			94	11.	
	Current input	Α	14.0-13	3.3-12.8	16.7-15	5.9-15.3	19.5-18	
	EER	kW / kW	5.4			03	4.	
Temp. range of	Indoor	W.B.	15.0~24.0°0	C(59~75°F)	15.0~24.0°	C(59~75°F)	15.0~24.0°	C(59~75°F)
cooling	Circulating water	°C	10.0~45.0°C		10.0~45.0°C		10.0~45.0°C	
Heating capacity	*2	kW	50			5.0		3.0
(Nominal)	*2	BTU / h	170.			.100	215	
(/	Power input	kW	8.0	65	10	42	12	.06
	Current input	Α	14.6-13		17.5-16		20.3-19	
	COP	kW / kW	5.			37		22
Temp. range of	Indoor	D.B.	15.0~27.0°0		15.0~27.0°		15.0~27.0°	
heating	Circulating water		10.0~45.0°C		10.0~45.0°C		10.0~45.0°C	
Indoor unit	Total capacity		50~150 % of heat s			source unit capacity		source unit capacity
connectable	Model / Quantity		P15~P25		P15~P25		P15~P250 / 1~50 (Connectable	
Sound pressure le							,	
(measured in ane		dB <a>	5		5			2
Refrigerant piping		mm (in.)	22.2(7/8		22.2(7/8		22.2(7/8	
diameter [O.D.]	Low pressure	mm (in.)	28.58(1-1/	(8) Brazed	28.58(1-1/	(8) Brazed	28.58(1-1)	/8) Brazed
Set Model								
Model			PQRY-P200YHM-A			PQRY-P200YHM-A		PQRY-P250YHM-A
Circulating water	Water flow rate	m ³ / h	5.76 +		5.76			+ 5.76
		L/min	96 + 96			+ 96		+ 96
		cfm	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 her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	4.6	4.6	6.3	4.6	6.3	6.3
	Case heater	kW	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.035(240 V)
External finish			Acrylic painte	ed steel plate	Acrylic painte	ed steel plate	Acrylic painte	ed steel plate
External dimension	n HxWxD	mm		1,160(1,100 without	1,160(1,100 without	1,160(1,100 without	1,160(1,100 without	1,160(1,100 without
		1111111	legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550
		in.	45-11/16(43-5/16 without	45-11/16(43-5/16 without	45-11/16(43-5/16 without		45-11/16(43-5/16 without	
		III.			legs) x 34-11/16 x 21-11/16			
Protection	High pressure pro	otection	High pressure sensor, High press			sure switch at 4.15MPa (601 psi)		sure switch at 4.15MPa (601 psi)
devices	Inverter circuit (C	OMP.)	Over-heat protection, 0	Over-current protection	Over-heat protection, (Over-current protection	Over-heat protection, (Over-current protection
	Compressor		Over-heat		Over-heat			protection
Refrigerant	Type x original ch	narge	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 Twinnin	g kit: CMY-Q100VBK	Heat Source Twinnin	g kit: CMY-Q100VBK	Heat Source Twinnin	g kit: CMY-Q100VBK
				S-G2,CMY-Y202S-G2,CMY-R160-J1				

Notes:

٠,	2 Nominal conditio	113			
		Indoor	Water temperature	Pipe length	Level difference
	Cooling	27°CD.B./19°CW.B. (81°FD.B./66°FW.B.)	30°C (86°F)	7.5m (24-9/16ft.)	Om (Oft.)
	Heating	20°CD.B. (68°FD.B.)	20°C (68°F)		

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

- "4 The ambient temperature of the neaf source unit needs to be kept below 40°CU.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 (Heat Recovery) Series **PQRY-P YSHM-A**

▶ Specifications

Model			PQRY-P55	50YSHM-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	*1	kW	63	63.0		9.0	
(Nominal)	*1	BTU / h	215	,000	235	,400	
	Power input	kW	13	.60	15	.62	
	Current input	Α	22.9-21	1.8-21.0	26.3-25	5.0-24.1	
	EER		4.	41			
Temp. range of	Indoor	W.B.	15.0~24.0°C(59~75°F)		15.0~24.0°	C(59~75°F)	
cooling	Circulating water	°C	10.0~45.0°C	C(50~113°F)	10.0~45.0°0	C(50~113°F)	
Heating capacity	*2	kW	69	9.0	76	5.5	
(Nominal)	*2	BTU / h	235	,400	261	,000	
	Power input	kW	14	.65	17.12		
	Current input	Α	24.7-23	3.4-22.6	28.9-27.4-26.4		
	COP	kW / kW	4.	70	4.46		
Temp. range of	Indoor	D.B.	15.0~27.0°	C(59~81°F)	15.0~27.0°C(59~81°F)		
heating	Circulating water	°C	10.0~45.0°C	C(50~113°F)	10.0~45.0°C(50~113°F)		
Indoor unit	Total capacity		50~150 % of heat s	source unit capacity	50~150 % of heat source unit capacity		
connectable	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 le (measured in ane		dB <a>	52.5		53		
Refrigerant piping	High pressure	mm (in.)	28.58(1-1	/8) Brazed	28.58(1-1	/8) Brazed	
diameter [O.D.]	Low pressure	mm (in.)	28.58(1-1	/8) Brazed	28.58(1-1	/8) Brazed	
Set Model		*		,			
Model			PQRY-P300YHM-A	PQRY-P250YHM-A	PQRY-P300YHM-A	PQRY-P300YHM-A	
Circulating water	Water flow rate	m ³ / 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	m ³ / h	45+45	45+45~72+72		~72+72	

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	m ³ / h	4.5 + 4.5	~ 7.2 + 7.2	4.5 + 4.5	~ 7.2 + 7.2		
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor		
	Starting method		Inverter	Inverter	Inverter	Inverter		
	Motor output	kW	7.4	6.3	7.4	7.4		
	Case heater	kW	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.035(240 V)		
External finish			Acrylic painte	ed steel plate	Acrylic painte	Acrylic painted steel plate		
External dimension	n HxWxD	mm	1,160(1,100 without legs) x 880 x 550	1,160(1,100 without legs) x 880 x 550	1,160(1,100 without legs) x 880 x 550	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	High pressure pro	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)				
devices	Inverter circuit (C			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 ch	narge	R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)		
Net weight		kg (lbs)	181(400)	181(400)	181(400)	181(400)		
Heat exchanger		-	plate type	plate type	plate type	plate type		
	Water volume in plate	L	5.0	5.0	5.0	5.0		
	Water pressure Max.	MPa	2.0	2.0	2.0	2.0		
Optional parts			Heat Source Twinning kit: CMY-Q100VBK Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-Y202S-G2,CMY-R160-J1			g kit: CMY-Q100VBK S-G2,CMY-Y202S-G2,CMY-R160-J1		

Notes:

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

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

- "4 The ambient temperature of the neaf source unit needs to be kept below 40°CU.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

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OUTDOOR UNIT Y Series

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			
Cooling capacity	*1	kW	22.4	28.0	33.5	40.0
(Nominal)	*1	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	Α	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	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)
cooling	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	*2		25.0	31.5	37.5	45.0
(Nominal)	*2	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	Α	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	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)
heating	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit	Total capacity		50~130 % of outdoor unit capacity			
connectable	Model / Quantity		P15~P250 / 1~17	P15~P250 / 1~21	P15~P250 / 1~26	P15~P250 / 1~30
Sound pressure le						
(measured in aned		dB <a>	56	57	59	60
Refrigerant piping	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed
diameter	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed
FAN	Type x Quantity		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 m	echanism	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 pr	ess.	0 Pa (0 mmH ₂ O)			
Compressor	Type x Quantity		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 1="" 5y="" 8="" or="" similar=""></munsell>			
External dimensio	n HxWxD	mm	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			
Protection	High pressure pre	otection	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)	High pressure sensor, High pressure switch at 4.15,3.3MPa (601,479 psi)
devices	Inverter circuit (CO	MP./ FAN)	Over-heat protection,	Over-heat protection,	Over-heat protection,	Over-heat protection,
			Over-current protection	Over-current protection	Over-current 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 ch	narge	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			
Optional parts						Header: CMY-Y104/108/1010-G

Notes:

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		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.)

OUTDOOR UNIT Y Series PUHY-RP YSJM-B(-BS)

▶ Specifications

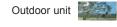
(measured in anechoic room) GB <a> 59 59.5	Model			PUHY-RP400YSJM-B (-BS)	PUHY-RP450YSJM-B (-BS)
Nominal Nomi	Power source			3-phase 4-wire 380-400-415V 50/60Hz	3-phase 4-wire 380-400-415V 50/60Hz
*1 BTU / h 153,500 170,600 Power input kW 11.87 13.77 Current input A 20.0-19.0-18.3 23.2-22.0-21.2 EER kW / kW 3.79 3.63 Temp. range of cooling Outdoor D.B. 15.0~24.0°C (59~75°F) 15.0~24.0°C (59~75°F) Heating capacity *2 kW 50.0 56.0 56.0 (23~109°F) *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 lndoor D.B. 15.0~27.0°C (59~81°F) 15.0~27.0°C (59~81°F) Indoor D.B. 15.0~27.0°C (59~81°F) 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.	Cooling capacity	*1	kW	45.0	50.0
Power input	(Nominal)	*1	kcal / h	38,700	43,000
Current input A 20.0-19.0-18.3 23.2-22.0-21.2 EER kW / kW 3.79 3.63 Indoor W.B. 15.0-24.0°C (59~75°F) 15.0~24.0°C (59~75°F) cooling Outdoor D.B. -5.0~43.0°C (23~109°F) -5.0~43.0°C (23~109°F) Heating capacity (Nominal) *2 kW 50.0 56.0 Keal / h 43,000 48,200 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) Indoor unit outled capacity Total capacity 50~130 % of outdoor unit capacity 50~130 % of outdoor unit capacity 50~130 % of outdoor unit capacity Sound pressure level (measured in anechoic room) dB <a> 59 59.5		*1	BTU / h	153,500	170,600
EER		Power input	kW	11.87	13.77
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) 15.0~24.0°C (59~75°F) 15.0~24.0°C (59~75°F) 15.0~24.0°C (23~109°F) 15.0°C (23~109°F) 15.0°C (23~109		Current input	Α	20.0-19.0-18.3	23.2-22.0-21.2
Outdoor D.B. -5.0~43.0°C (23~109°F) -5.0~43.0°C (23~109°F)		EER	kW / kW	3.79	3.63
Heating capacity (Nominal) *2 kW 50.0 56.0	Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
Nominal 12 Keal / h 43,000 48,200 191,100	cooling	Outdoor	D.B.	-5.0~43.0°C (23~109°F)	-5.0~43.0°C (23~109°F)
*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 Outdoor D.B. 15.0~27.0°C (59~81°F) 15.0~27.0°C (59~81°F) Indoor unit Total capacity 50~130 % of outdoor unit capacity 50~130 % of outdoor unit capacity 500nd pressure level (measured in anechoic room) *2 BTU / h 170,600 191,100 191,100 191,100 192,100 193,100 193,100 193,100 193,100 194,100 195,000 195,000 191,100 195,000 1	Heating capacity	*2	kW	50.0	56.0
Power input kW 11.38 12.81	(Nominal)	*2	kcal / h	43,000	48,200
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 leading Indoor D.B. 15.0-27.0°C (59-81°F) 15.0-27.0°C (59-81°F) heating Outdoor W.B. -20.0-15.5°C (4-60°F) -20.0-15.5°C (4-60°F) Indoor unit Total capacity 50~130 % of outdoor unit capacity 50~130 % of outdoor unit capacity Sound pressure level (measured in anechoic room) dB <a> 59 59.5		*2	BTU / h	170,600	191,100
COP kW / kW 4.39 4.37		Power input	kW	11.38	12.81
Temp. range of heating Indoor D.B. 15.0~27.0°C (59~81°F) 15.0~27.0°C (59~81°F) Indoor unit capacity Outdoor W.B. -20.0~15.5°C (-4~60°F) -20.0~15.5°C (-4~60°F) Indoor unit capacity 50~130 % of outdoor unit capacity 50~130 % of outdoor unit capacity connectable Model / Quantity P15~P250 / 1~32 P15~P250 / 1~32 Sound pressure level (measured in anechoic room) dB <a> 59 59.5		Current input	Α	19.2-18.2-17.5	21.6-20.5-19.8
heating Outdoor W.B. -20.0~15.5°C (-4~60°F) -20.0~15.5°C (-4~60°F) Indoor unit Total capacity 50~130 % of outdoor unit capacity 50~130 % of outdoor unit capacity connectable Model / Quantity P15~P250 / 1~32 P15~P250 / 1~32 Sound pressure level (measured in anechoic room) dB <a> 59 59.5		COP	kW / kW	4.39	4.37
Indoor unit Total capacity 50~130 % of outdoor unit capacity 50~130 % of outdoor unit capacity connectable Model / Quantity P15~P250 / 1~32 P15~P250 / 1~32 P15~P250 / 1~32 Sound pressure level (measured in anechoic room) dB <a> 59 59.5	Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
Connectable Model / Quantity P15~P250 / 1~32 P15~P250 / 1~32 Sound pressure level (measured in anechoic room) dB <a> 59 59.5	heating	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Sound pressure level (measured in anechoic room) dB <a> 59 59.5	Indoor unit	Total capacity		50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity
(measured in anechoic room) GB <a> 59 59.5	connectable	Model / Quantity		P15~P250 / 1~32	P15~P250 / 1~32
Porrigorant piping Liquid pipe mm (in) 15.99 (5/9) Proyed	Sound pressure level (measured in anechoic room)		dB <a>	59	59.5
Refrigerant piping Liquid pipe	Refrigerant piping	Liquid pipe	mm (in.)	15.88 (5/8) Brazed	15.88 (5/8) Brazed
diameter Gas pipe mm (in.) 34.93 (1-3/8) Brazed 34.93 (1-3/8) Brazed				34.93 (1-3/8) Brazed	34.93 (1-3/8) Brazed
Set Model	Set Model			. , ,	

Set Model				•				
Model		PUHY-RP200YJM-B (-BS)	PUHY-RP200YJM-B (-BS)	PUHY-RP200YJM-B (-BS)	PUHY-RP250YJM-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		L/s	3,083	3,083	3,083	3,083		
		cfm	6,532	6,532	6,532	6,532		
	Control, Driving m	nechanism	Inverter-control, Dir	rect-driven by motor	Inverter-control, Di	rect-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 pr	ess.	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)		
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor		
	Starting method		Inverter	Inverter	Inverter	Inverter		
	Motor output	kW	4.8	4.8	4.8	6.8		
	Case heater	kW	0.035 (240V)	0.035 (240V)	0.035 (240V)	0.045 (240V)		
External finish				ets (+powder coating for -BS type) '8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>			
External dimension	n HxWxD	mm	1,710 (1,650 without legs) x 920 x 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	High pressure pr	otection	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)			
devices	Inverter circuit (CC	MP./ 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	Thermal switch	Thermal switch		
Refrigerant	Type x original cl	harge	R410A x 6.5kg (15lbs)	R410A x 6.5kg (15lbs)	R410A x 6.5kg (15lbs)	R410A x 9.0kg (20lbs)		
		kg (lbs)	230 (508)	230 (508)	230 (508)	255 (563)		
Heat exchanger		Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube			
Pipe between unit	Liquid pipe	mm (in.)	9.52 (3/8) Brazed	9.52 (3/8) Brazed	9.52 (3/8) Brazed	9.52 (3/8) Brazed		
and distributor	Gas pipe	mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	22.2 (7/8) Brazed		
Optional parts				it: CMY-RP100VBK		Outdoor Twinning kit: CMY-RP100VBK		
			Header: CMY-Y	104/108/1010-G	Header: CMY-Y104/108/1010-G			

Notes:

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		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.)





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 ^{*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.

 ^{*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 Series

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	*1	kW	56.0	63.0
(Nominal)	*1	kcal / h	48,200	54,200
	*1	BTU / h	191,100	215,000
	Power input	kW	15.68	17.50
	Current input	Α	26.4-25.1-24.2	29.5-28.0-27.0
	EER	kW / kW	3.57	3.60
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling	Outdoor	D.B.	-5.0~43.0°C (23~109°F)	-5.0~43.0°C (23~109°F)
Heating capacity	*2	kW	63.0	69.0
(Nominal)	*2	kcal / h	54,200	59,300
	*2	BTU / h	215,000	235,400
	Power input	kW	14.44	16.62
	Current input	Α	24.3-23.1-22.3	28.0-26.6-25.6
	COP	kW / kW	4.36	4.15
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
heating	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit	Total capacity		50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity
connectable	Model / Quantity		P15~P250 / 1~32	P15~P250 / 1~32
Sound pressure le (measured in anec		dB <a>	60	61
Refrigerant piping	Liquid pipe	mm (in.)	15.88 (5/8) Brazed	15.88 (5/8) Brazed
diameter	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)	PUHY-RP250YJM-B (-BS)	PUHY-RP300YJM-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 L/s		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 m	echanism	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor	
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	
*3	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	6.8	6.8	6.8	8.2	
	Case heater	kW	0.045 (240V)	0.045 (240V)	0.045 (240V)	0.045 (240V)	
External finish			Pre-coated galvanized steel shee <munsell 5y<="" td=""><td></td><td colspan="3">BS type) Pre-coated galvanized steel sheets (+powder coa <munsell 1="" 5y="" 8="" or="" similar=""></munsell></td></munsell>		BS type) Pre-coated galvanized steel sheets (+powder coa <munsell 1="" 5y="" 8="" or="" similar=""></munsell>		
External dimensio	n 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	High pressure pr	otection			High pressure sensor, High pressure switch at 4.15,3.3MPa (601,479 psi		
devices	Inverter circuit (CO	MP./ FAN)	Over-heat protection, (Over-current protection	Over-heat protection, Over-current protection		
	Compressor	•	Over-heat protection		Over-heat protection		
	Fan motor		Thermal switch	Thermal switch	Thermal switch	Thermal switch	
Refrigerant	Type x original ch	narge	R410A x 9.0kg (20lbs)	R410A x 9.0kg (20lbs)	R410A x 9.0kg (20lbs)	R410A x 9.0kg (20lbs)	
Net weight	Net weight kg (lbs)		255 (563)	255 (563)	255 (563)	255 (563)	
Heat exchanger			Salt-resistant cross	s fin & copper tube	Salt-resistant cross	s fin & copper tube	
Pipe between unit	between unit Liquid pipe mm (in.		9.52 (3/8) Brazed	9.52 (3/8) Brazed	9.52 (3/8) Brazed	12.7 (1/2) Brazed	
and distributor	Gas pipe	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	
Optional parts	·			it: CMY-RP100VBK 104/108/1010-G	Outdoor Twinning kit: CMY-RP100VBK Header: CMY-Y104/108/1010-G		

Notes:

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		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.)

OUTDOOR UNIT Y Series

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	*1	kW	69.0	73.0
(Nominal)	*1	kcal / h	59,300	62,800
	*1	BTU / h	235,400	249,100
	Power input	kW	18.59	21.09
	Current input	Α	31.3-29.8-28.7	35.6-33.8-32.6
	EER	kW / kW	3.71	3.46
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling	Outdoor	D.B.	-5.0~43.0°C (23~109°F)	-5.0~43.0°C (23~109°F)
Heating capacity	*2	kW	76.5	81.5
(Nominal)	*2	kcal / h	65,800	70,100
	*2 BTU / h		261,000	278,100
	Power input	kW	19.22	21.73
	Current input	Α	32.4-30.8-29.7	36.6-34.8-33.5
	COP	kW / kW	3.98	3.75
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
heating	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit	Total capacity		50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity
connectable	Model / Quantity		P15~P250 / 1~32	P15~P250 / 1~32
Sound pressure le (measured in ane		dB <a>	62	62.5
Refrigerant piping	Liquid pipe	mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed
diameter	Gas pipe	mm (in.)	34.93 (1-3/8) Brazed	41.28 (1-5/8) Brazed
Set Model				

Gao pipo inini (ini							
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	
	Control, Driving		3,083	3,083	3,083	3,083	
	C		6,532	6,532	6,532	6,532	
	Control, Driving n	nechanism	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor	
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	
*3	External static p	ress.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	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				ets (+powder coating for -BS type) ' 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>		
External dimension	n HxWxD	mm	1,710 (1,650 without legs) x 920 x 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	High pressure pr	rotection	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)		
devices	Inverter circuit (CC	DMP./ 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	Thermal switch	Thermal switch	
Refrigerant	Type x original c	harge	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 cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube	
Pipe between uni	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	
and distributor	Gas pipe	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	
Optional parts				it: CMY-RP100VBK 104/108/1010-G	Outdoor Twinning kit: CMY-RP100VBK Header: CMY-Y104/108/1010-G		

Notes:

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		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.)

Outdoor unit

Outdoor unit

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 ^{*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.

 ^{*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 Series

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	*1	kW	80.0	85.0	90.0
(Nominal)	*1	kcal / h	68,800	73,100	77,400
	*1	BTU / h	273,000	290,000	307,100
	Power input	kW	22.22	24.14	25.49
	Current input	Α	37.5-35.6-34.3	40.7-38.7-37.3	43.0-40.8-39.4
	EER	kW / kW	3.60	3.52	3.53
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling	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	*2	kW	88.0	95.0	100.0
(Nominal)	*2	kcal / h	75,700	81,700	86,100
	*2	BTU / h	300,300	324,100	341,200
	Power input	kW	20.13	21.78	23.75
	Current input	Α	33.9-32.2-31.1	36.7-34.9-33.6	40.0-38.0-36.7
	COP	kW / kW	4.37	4.36	4.21
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
heating	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit	Total capacity		50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity
connectable	Model / Quantity		P15~P250 / 1~32	P15~P250 / 1~32	P15~P250 / 1~32
Sound pressure le (measured in ane		dB <a>	61.5	62	62.5
Refrigerant piping	Liquid pipe	mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed
diameter	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed	41.28 (1-5/8) Brazed	41.28 (1-5/8) Brazed
Set Model				•	

Model			PUHY-	PUHY-	PUHY-	PUHY-	PUHY-	PUHY-	PUHY-	PUHY-	PUHY-
			RP200YJM-B(-BS)	RP250YJM-B(-BS)	RP250YJM-B(-BS)	RP250YJM-B(-BS)	RP250YJM-B(-BS)	RP250YJM-B(-BS)	RP250YJM-B(-BS)	RP250YJM-B(-BS)	RP300YJM-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 m	echanism	Inverter-con	trol, Direct-driv	en by motor	Inverter-cor	trol, Direct-driv	en by motor	Inverter-cor	ntrol, Direct-driv	en 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 pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverter so	roll hermetic co	ompressor	Inverter so	croll hermetic co	ompressor	Inverter so	croll hermetic c	ompressor
	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-coate	d galvanized st	eel sheets	Pre-coate	d galvanized st	eel sheets	Pre-coated galvanized steel sheets		
			(+powder coating for -BS type)		(+powder coating for -BS type)		(+powder coating for -BS type)				
			<munsell 1="" 5y="" 8="" or="" similar=""></munsell>		<munsell 1="" 5y="" 8="" or="" similar=""></munsell>		<munsell 1="" 5y="" 8="" or="" similar=""></munsell>				
External dimension	n HxWxD	mm			1,710 (1,650 without		1,710 (1,650 without	, . (,		1,710 (1,650 without	, . (,
		111111	legs) x 920 x 760	legs) x 920 x 760	legs) x 920 x 760	legs) x 920 x 760	legs) x 920 x 760	legs) x 920 x 760	legs) x 920 x 760	legs) x 920 x 760	legs) x 920 x 760
		in.			67-3/8 (65 without legs)					67-3/8 (65 without legs)	
			x 36-1/4 x 29-15/16	x 36-1/4 x 29-15/16	x 36-1/4 x 29-15/16	x 36-1/4 x 29-15/16	x 36-1/4 x 29-15/16	x 36-1/4 x 29-15/16	x 36-1/4 x 29-15/16	x 36-1/4 x 29-15/16	x 36-1/4 x 29-15/16
Protection	High pressure pr	otection			ressure switch						
devices				,3.3MPa (601,4			,3.3MPa (601,4			5,3.3MPa (601,4	
	Inverter circuit (CC	MP./ FAN)			rent protection	Over-heat protection, Over-current protection					
	Compressor			er-heat protect			er-heat protect			er-heat protect	
	Fan motor		Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch
Refrigerant	Type x original cl		R410A x 6.5kg (15lbs)								
Net weight kg (lbs)		230 (508)	255 (563)	255 (563)	255 (563)	255 (563)	255 (563)	255 (563)	255 (563)	255 (563)	
Heat exchanger	I			nt cross fin & c			ant cross fin & c			ant cross fin & c	
Pipe between unit			9.52 (3/8) Brazed								
	Gas pipe	mm (in.)	19.05 (3/4) Brazed								
Optional parts				nning kit: CMY			inning kit: CMY			inning kit: CMY	
			Header:	CMY-Y104/108	3/1010-G	Header:	CMY-Y104/108	3/1010-G	Header:	CMY-Y104/108	3/1010-G

Notes:

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		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.)

OUTDOOR UNIT Y Series

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	*1	kW	96.0	101.0
Nominal)	*1	kcal / h	82,600	86,900
	*1	BTU / h	327,600	344,600
	Power input	kW	27.11	28.29
	Current input	Α	45.7-43.4-41.9	47.7-45.3-43.7
	EER	kW / kW	3.54	3.57
emp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
ooling	Outdoor	D.B.	-5.0~43.0°C (23~109°F)	-5.0~43.0°C (23~109°F)
leating capacity	*2	kW	108.0	113.0
(Nominal)	*2	kcal / h	92,900	97,200
	*2	BTU / h	368,500	385,600
	Power input	kW	26.47	28.39
	Current input	Α	44.6-42.4-40.9	47.9-45.5-43.8
	COP	kW / kW	4.08	3.98
emp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
eating	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
ndoor unit	Total capacity		50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity
onnectable	Model / Quantity		P15~P250 / 1~32	P15~P250 / 1~32
Sound pressure le measured in ane		dB <a>	63.5	64
Refrigerant piping	Liquid pipe	mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed
liameter	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed	41.28 (1-5/8) Brazed

Model			PUHY-RP250YJM-B(-BS)	PUHY-RP300YJM-B(-BS)	PUHY-RP300YJM-B(-BS)	PUHY-RP300YJM-B(-BS)	PUHY-RP300YJM-B(-BS)	PUHY-RP300YJM-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 m	echanism	Inverter-	-control, Direct-driven I	ov motor	Inverter-control, Direct-driven by motor			
	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	
*3 External static p		ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	
Compressor	Compressor Type x Quantity		Inverte	er scroll hermetic comp	ressor	Inverte	er scroll hermetic comp		
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				d steel sheets (+powde JNSELL 5Y 8/1 or sim		Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>			
External dimension	n HxWxD	mm	1,710 (1,650 without legs) x 920 x 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			
Protection	High pressure pr	otection	High pressure sensor, H	igh pressure switch at 4.	15,3.3MPa (601,479 psi)	High pressure sensor, High pressure switch at 4.15,3.3MPa (601,479 psi)			
devices	Inverter circuit (CO	MP./ FAN)	Over-heat p	protection, Over-currer	t protection	Over-heat p	protection, Over-curren	t protection	
	Compressor			Over-heat protection	•		Over-heat protection	•	
	Fan motor		Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	Thermal switch	
Refrigerant	Type x original ch	narge	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-res	sistant cross fin & copp	er tube	Salt-res	sistant cross fin & copp	er tube	
		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	
		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				Twinning kit: CMY-RP der: CMY-Y104/108/10		Outdoor Twinning kit: CMY-RP200VBK Header: CMY-Y104/108/1010-G			

Notes:

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		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.)

Outdoor unit

Outdoor unit

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 ^{*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.

 ^{*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 Series

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	*1	kW	22.4	28.0	33.5
(Nominal)	*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	Α	8.3-7.9-7.6	11.5-10.9-10.5	14.0-13.3-12.9
	EER	kW / kW	4.52	4.10	4.01
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling	Outdoor	D.B.	-5.0~43.0°C (23~109°F)	-5.0~43.0°C (23~109°F)	-5.0~43.0°C (23~109°F)
Heating capacity	*2	kW	25.0	31.5	37.5
(Nominal)	*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	Α	9.2-8.8-8.5	12.1-11.5-11.1	14.6-13.9-13.4
	COP	kW / kW	4.54	4.36	4.31
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
heating	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit	Total capacity		50~150 % of outdoor unit capacity	50~150 % of outdoor unit capacity	50~150 % of outdoor unit capacity
connectable	Model / Quantity		P15~P250 / 1~20	P15~P250 / 1~25	P15~P250 / 1~30
Sound pressure le (measured in aneo		dB <a>	56	57	59
Refrigerant piping	,	mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed
diameter		mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
FAN	Type x Quantity	111111 (111.)	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
FAIN	Air flow rate	m³/min	225	225	225
	All llow rate	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
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1
*3	External static pre		0.92 x 1 0 Pa (0 mmH₂O)	0.92 x 1 0 Pa (0 mmH₂O)	0.32 X 1 0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
Compressor	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	5.4	6.8	7.8
	Case heater	kW	0.035 (240V)	0.045 (240V)	0.045 (240V)
External finish	oudo moutor		Pre-coated galvanized steel sheets	Pre-coated galvanized steel sheets	Pre-coated galvanized steel sheets
External miler			(+powder coating for -BS type) <munsell 1="" 5y="" 8=""></munsell>	(+powder coating for -BS type) <munsell 1="" 5y="" 8=""></munsell>	(+powder coating for -BS type) <munsell 1="" 5y="" 8=""></munsell>
External dimension	n 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
External amonoro		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	High pressure pro		High pressure sensor, High pressure switch	High pressure sensor, High pressure switch	
devices	ingii procedio pre	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	at 4.15, 3.6MPa (601,522 psi)	at 4.15, 3.6MPa (601,522 psi)	at 4.15, 3.6MPa (601,522 psi)
	Inverter circuit (COI	MP./ FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor	,		Discharge thermo protection, Over-current protection	
	Fan motor		Thermal switch	Thermal switch	Thermal switch
Refrigerant	Type x original ch	arge	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	BC controller: CMB-P104,105,106,108,1010,1013,1016V-G Main BC controller: CMB-P108,1010,1013,1016V-GA	BC controller: CMB-P104,105,106,108,1010,1013,1016V-G Main BC controller: CMB-P108,1010,1013,1016V-GA
			Sub BC controller: CMB-P108,1010,1013,1016V-GA	Sub BC controller: CMB-P108,1010,1013,1016V-GA	Sub BC controller: CMB-P108,1010,1013,1016V-GA
			Out be controlled. Civib-F 104, 100V-GB	Out be controlled. Civib-F 104, 100V-GB	Oub BO Controller. Civib-F 104, 1007-GB

Notes:

,	2 Norminal Conditio	115			
		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.)

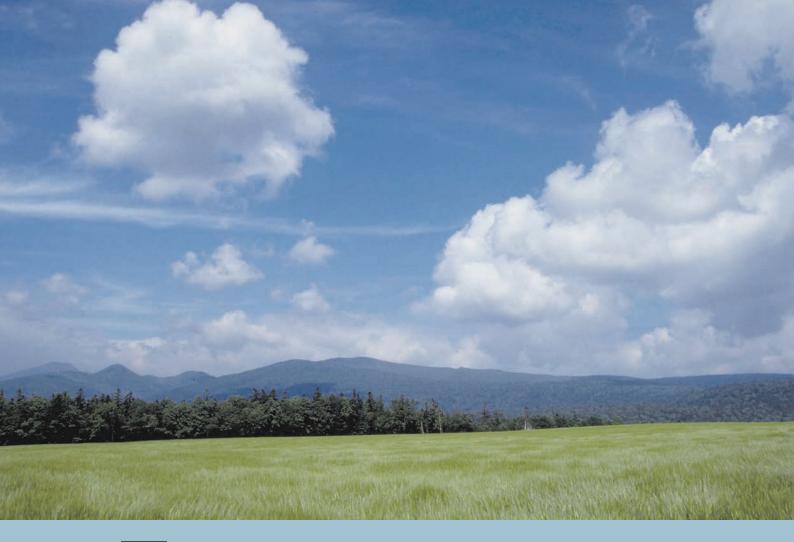


^{*3.} External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*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.



I ndoor unit

- Ceiling cassette type 4-way airflow
- Ceiling cassette type 2-way airflow
- Ceiling cassette type 1-way airflow
- Ceiling concealed type
- Fresh Air Intake type
- Ceiling suspended type
- Wall mounted type
- Floor standing exposed
- Floor mounted concealed type
- **BC** controller
- Air to water unit
- Lossnay

OA Processing Units

Wide Selection of Indoor Units

Тур	e	Model name	Model	P15	P20	P25		P32	P40	P50	P63	P71	P80	P100	P125	P140	P200	P250
	4-way air flow	PLFY-P VBM-E																
Ceiling Cassette	+ way all now	PLFY-P VCM-E2]											
Ocining Oddsocito	2-way air flow	PLFY-P VLMD-E																
	1-way air flow	PMFY-P VBM-E																
		PEFY-P VMR-E-L/R				I I I	1	i i	i i i i i	i i i i i				 				
		PEFY-P VMS1(L)-E				 	1	 	! ! !	 				 				
Ceiling Concealed	I	PEFY-P VMA(L)-E																
		PEFY-P VMH(S)-E			 	i ! ! ! !	 	: : : : : : : : :		<u> </u>								
	Fresh Air Intake	PEFY-P VMH-E-F				: : : : : : : :			: 	: 								
Ceiling Suspended	d	PCFY-P VKM-E				1 1 1 1 1 1	1	 		1 1 1 1 1 1 1								
		PKFY-P VBM-E				 		 	! ! ! ! ! ! !	! ! ! ! ! ! !				 				
Wall Mounted		PKFY-P VHM-E				 												
		PKFY-P VKM-E				 			: : : : : : : :	: : : : : : : :								
		PFFY-P VKM-E2				i i	i 			: : : : : : : : :								
Floor Standing/ Floor Mounted Co	ncealed	PFFY-P VLEM-E				i i	i 	1	 	! !								
		PFFY-P VLRM-E PFFY-P VLRMM-E				!	!	!	 	!								

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INDOOR UNIT Ceiling cassette type 4-way airflow

PLFY-P VBM-E F-see Sensor PLFY-P VCM-E2





PI FY-P VRM

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 feets (600mm) x 2 feets (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)



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)



*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

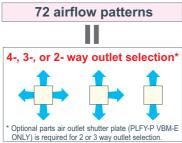
Discharge air reaches wider area and the fan speed is decreased by 20% thanks to the new wide shape air outlet.

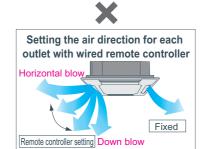


72 patterns of airflow to accommodate any room layout are available.



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

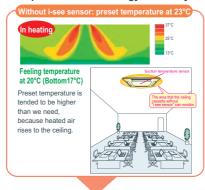


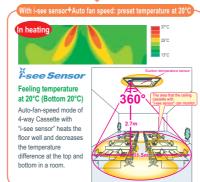


"i-see sensor" can be used with ceiling cassette type 4-way airflow unit. (Option PAC-SA1ME-E, PLFY-VBM-E ONLY)

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

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





▶ Specifications

				PLFY-P32VBM-E	PLFY-P40VBM-E				PLFY-P100VBM-E	PLFY-P125VBM-E				
Powers	source						240V 50Hz / 1-phas							
Cooling	capacity	, *1	kW	3.6	4.5	5.6	7.1	9.0	11.2	14.0				
Cooming	Capacity	*1	BTU/h	12,300	15,400	19,100	24,200	30,700	38,200	47,800				
Hoating	capacity	, *1	kW	4.0	5.0	6.3	8.0	10.0	12.5	16.0				
ricating	Capacity	*1	BTU/h	13,600	17,100	21,500	27,300	34,100	42,700	54,600				
Power		Cooling	kW	0.03	0.		0.05	0.07	0.15	0.16				
consum	nption	Heating	kW	0.02	0.	03	0.04	0.06	0.14	0.15				
Current		Cooling	Α	0.22	0.	29	0.36	0.51	1.00	1.07				
Ourrent		Heating	Α	0.14	0.	22	0.29	0.43	0.94	1.00				
Externa	al finish	Unit			Galvanized steel sheet									
(Munse	ll No.)	Panel			258 x 840 >									
		mm(in.)		298 x 840 x 840 (11-	3/4 x 33-1/8 x 33-1/8)									
HxWxD Panel		mm(in.)	35 x 950 x 950 (1-3/8 x 37-7/16 x 37-7/16)											
Notwoi	Net weight Unit		kg(lbs.)		22 (49)		23 (51)	27 (60)					
ivet wei	gni	Panel	kg(lbs.)				6 (13)						
Heat ex	changer			Cross fin (Aluminum plate fin and copper tube)										
	Type x (Quantity		Turbo fan x 1										
	Airflow	*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				
Fan		-Mid2-Hi)	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 sta	tic pressure	Pa				0							
Motor	Туре						DC motor							
IVIOLOI	Output		kW			0.050			0.1	20				
Air filter	-						PP Honeycomb							
		Gas (Flare)	mm(in.)	ø12.7	(ø1/2)	ø12.7 (ø1/2) / ø15.88 (ø5/8) (Compatible)	ø15.88	8(ø5/8)	ø15.88 (ø5/8) / (Comp	ø19.05 (ø3/4) patible)				
pipe dia	pipe diameter Liquid (Flare)		mm(in.)	ø6.35	(ø1/4)	ø9.52	52 (ø3/8)							
Field dra	ield drain pipe diameter mm		mm(in.)	O.D. 32 (1-1/4)										
	pressure 1-Mid2-Hi		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	g capacit	, *1	kW	1.7	2.2	2.8	3.6	4.5				
Coomi	g capacit	*1	BTU/h	5,800	7,500	9,600	12,300	15,400				
Heatin	g capacit	v *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		Cooling	kW	0.04	0.05	0.05	0.06	0.06				
consur	mption	Heating	kW	0.04	0.05	0.05	0.06	0.06				
Curren	nt	Cooling	Α	0.19	0.23	0.23	0.28	0.28				
Heating		Heating	Α	0.19	0.19 0.23 0.23 0.28							
External finish Unit					Galvanize	d steel sheet with gray heat	insulation					
(Munsell No.) Panel						White (6.4Y 8.9/0.4)						
Dimen	Dimension Unit mm(in.)			208 x 570 x 570 (8-1/4 x 22-1/2 x 22-1/2)								
HxWxD Panel mm(in.)		mm(in.)	20 x 650 x 650 (13/16 x 25-5/8 x 25-5/8)									
Net we	oiabt	Unit	kg(lbs.)		15.5 (35)	17 (38)						
I NET WE	eigiii	Panel	kg(lbs.)	3 (7)								
Heat e	xchange	r			Cross	fin (Aluminum fin and coppe	er tube)					
	Type x	Quantity			Turbo fan x 1							
	Airflow	rate *2	m³/min	8-8.5-9	8-9-10	8-9-10	8-9-11	8-9-11				
Fan	(Lo-Mid	-Hi)	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				
	Externa	l static ressure	Pa			0						
Motor	Туре					1-phase induction motor						
IVIOLOT	Outp	ut	kW	0.008	0.011	0.015	0.02	0.02				
Air filte	er				PP I	Honeycomb fabric (long life	type)					
Refrigerant Gas(Flare) mm(in.)		mm(in.)			ø12.7 (ø1/2)							
pipe di	iameter	Liquid(Flare)	mm(in.)			ø6.35 (ø1/4)						
Field d	rain pipe	diameter	mm(in.)		O.D. 32 (1-1/4) (PVC pipe VP-25 cor	inectable)					
	Sound pressure level		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).

Indoor unit

Indoor unit

^{*3} It is measured in anechoic room at power source 230V.

INDOOR UNIT Ceiling cassette type 2-way airflow

PLFY-P VLMD-E

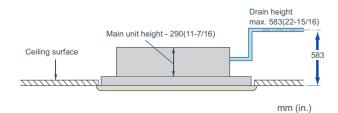


Slim body of 290mm(11-7/16in.) height



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.



Compact unit and low noise level attained!

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

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

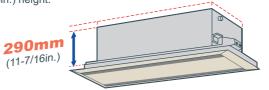
<220V,240V>

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

<230V>

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

The slimline body is 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

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-P20VLMD-E	PLFY-P25VLMD-E	PLFY-P32VLMD-E	PLFY-P40VLMD-E					
Powers	source				1-phase 220-240V 50Hz	/ 1-phase 220-230V 60Hz	•					
Cooling	capacity	, *1	kW	2.2	2.8	3.6	4.5					
Cooming	Capacit	*1	BTU/h	7,500	9,600	12,300	15,400					
Hoating	capacit	., *1	kW	2.5	3.2	4.0	5.0					
i icaliilg	Capacit	*1	BTU/h	8,500	10,900	13,600	17,100					
Power		Cooling	kW	0.072 / 0.075	0.072 / 0.075		0.081 / 0.085					
consum	nption	Heating	kW	0.065 / 0.069	0.065 / 0.069	0.065 / 0.069	0.074 / 0.079					
Current		Cooling	Α	0.36 / 0.37	0.36 / 0.37	0.36 / 0.37	0.40 / 0.42					
		Heating	Α	0.30 / 0.32	0.30 / 0.32	0.30 / 0.32	0.34 / 0.37					
Externa	al finish	Unit			Galvanized steel plate							
(Munsell No.) Panel					Pure white (6.4Y 8.9/0.4)							
Dimension Unit mm (in.)		mm (in.)	290 x 776 x 634 (11-7/16 x 30-9/16 x 25)									
HxWx	D	Panel	mm (in.)									
Net wei	iaht	Unit	kg(lbs.)	23 (51)	24	(53)					
I VOL WOI	giit	Panel	kg(lbs.)									
Heat ex	changer			Cross fin								
	Type x	Quantity			Turbo fan x 1							
	Airflow	rate *2	m³/min		6.5-8.0-9.5		7.0-8.5-10.5					
Fan	(Lo-Mid		L/s		108-133-158		117-142-175					
	(LO-IVIIC		cfm		230-283-335		247-300-371					
	_	atic pressure	Pa		()						
Motor	Туре				1-phase ind	uction motor						
IVIOLOI	Output		kW			at 240V)						
Air filter	r				PP honeycomb fa	bric (long life type)						
Refrige		Gas(Flare)	mm(in.)			(ø1/2)						
pipe dia		Liquid(Flare)	mm(in.)			(ø1/4)						
	ain pipe o		mm(in.)			(1-1/4)						
Sound pre	ssure level	220V,240V	dB(A)		27-30-33		29-33-36					
(Lo-Mid-H	li) *2 *3	230V	dB(A)		28-31-34		30-34-37					

				PLFY-P50VLMD-E	PLFY-P63VLMD-E	PLFY-P80VLMD-E	PLFY-P100VLMD-E	PLFY-P125VLMD-E				
Power	source				1-phase 220-240V	50Hz / 1-phase 220-230V	60Hz					
Caalia	it	*1	kW	5.6	7.1	9.0	11.2	14.0				
Cooling	g capacit	^y *1	BTU/h	19,100	24,200	30,700	38,200	47,800				
Hootin	g capacit	*1	kW	6.3	8.0	10.0	12.5	16.0				
пеашц	y capacit	^y *1	BTU/h	21,500	27,300	34,100	42,700	54,600				
Power		Cooling	kW	0.082 / 0.086	0.101 / 0.105	0.147 / 0.156	0.157 / 0.186	0.28 / 0.28				
consur	nption	Heating	kW	0.075 / 0.080	0.094 / 0.099	0.140 / 0.150	0.150 / 0.180	0.27 / 0.27				
Curren		Cooling	Α	0.41 / 0.43	0.49 / 0.51	0.72 / 0.74	0.75 / 0.88	1.35 / 1.35				
Heating		Heating	A	0.35 / 0.38	0.43 / 0.46		0.69 / 0.83	1.33 / 1.33				
Extern	al finish	Unit			Galvanized steel plate							
(Munse	ell No.)	Panel				Pure white (6.4Y 8.9 / 0.4)						
Dimension Unit mm (in.			mm (in.)	290 x 946 x 634 (11	-7/16 x 37-1/4 x 25)	290 x 1446 x 634 (11-	290 x 1708 x 606 (11-7/16 x 67-1/4 x 23-7/8)					
H x W x D Panel mm (in.)			mm (in.)	20 x 1250 x 710 (1	3/16 x 49-1/4 x 28)	/16 x 68-15/16 x 28)	20 x 2010 x 710 (13/16 x 79-3/16 x 28)					
N1 - 4	i l- 4	Unit	kg(lbs.)	27 (60)	28 (62)	44 (98)	44 (98) 47 (104)					
Net we	eignt	Panel	kg(lbs.)	7.5	(17)	12.5	13.0 (29)					
Heat e	xchanger				Cross fin							
	Type x	Quantity		Turbo	fan x 1	Turbo	fan x 2	Sirocco fan x 4				
	Airflow	irflow rate *2 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				
Fan	(P50~P100	:Lo-Mid-Hi)	L/s	150-183-208	167-217-258	258-308-367	292-350-417	400-450-500-550				
	(P125:Lo-N	Mid2-Mid1-Hi) cfm		318-388-441	353-459-547	547-653-777	618-742-883	848-953-1,059-1,165				
	External sta	atic pressure	Pa			0		•				
Motor	Type					1-phase induction motor						
IVIOLOI	Output		kW	0.020 (a	at 240V)	0.020 (at 240V)	0.030 (at 240V)	0.078 x 2 (at 240V)				
Air filte						1.6.1.1.11.11.11	,	Synthetic fiber unwoven				
All lille	1				PPT	noneycomb fabric (long life t	ype)	cloth filter (long life)				
Refrigerant Gas (Flare) mm(in.)		mm(in.)	ø12.7 (ø1/2)		ø15.88	(ø5/8)						
pipe di	ameter	Liquid (Flare)	mm(in.)	ø6.35 (ø1/4)		ø9.52	(ø3/8)					
Field di	rain pipe o	diameter	mm(in.)	'	•	O.D.32 (1-1/4)						
Sound pr	essure level	220V,240V	dB(A)	31-34-37	32-37-39	33-36-39	36-39-42	40-42-44-46				
(Lo-Mid-l	Hi) *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

Indoor unit

Page 91 Page 92

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.

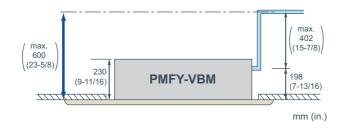
Sound pressure level table

Courte pressure level table											
	Capa	city	P20	P25 P32		P40					
Sound		High	35	3	7	39					
pressure	Fan	Mid 1	33	3	6	37					
level	Speed	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 50H:	z / 1-phase 220V 60Hz							
Cooling	a conocit	, *1	kW	2.2	2.8	3.6	4.5						
Coomi	g capacity	*1	BTU/h	7,500	9,600 12,300		15,400						
Heating	g capacity	, *1	kW	2.5	3.2	4.0	5.0						
пеашц	y capacity	*1	BTU/h	8,500	10,900 13,600		17,100						
Power		Cooling	kW	0.042	0.0	0.054							
consumption Heating kW		kW	0.042	0.0	44	0.054							
Cooling		Α	0.20	0.2	21	0.26							
Current Heating A			Α	0.20	0.2	21	0.26						
External finish (Munsell No.)					White (0.98Y 8.99/0.63)								
Dimens	sion	Unit	mm(in.)	230 x 812 x 395 (9-1/16 x 32 x 15-9/16)									
$H\timesW$	ΧD	Panel	mm(in.)		30 x 1000 x 470 (1-3/16 x 39-3/8 x 18-9/16)								
Net we	iaht	Unit	kg(lbs.)	14 (31)									
INCL WC	igiit	Panel	kg(lbs.)		3 (7)							
Heat ex	xchanger				Cross fin (Aluminum pla	te fin and copper tube)							
	Туре				Line flow fan x 1								
	Airflow r	*2	m³/min	6.5-7.2-8.0-8.7	7.3-8.0-	7.7-8.7-9.7-10.7							
Fan	(Lo-Mid2-		L/s	108-120-133-145	122-133-	128-145-162-178							
	(LO-WIUZ-	iviiu i-i ii)	cfm	230-254-283-307	258-283-	304-328	272-307-343-378						
	External sta	aticpressure	Pa		0	1							
Motor	Туре				1-phase indu	uction motor							
WIOLOI	Output		kW		0.0	28							
Air filter	r				PP Honeyc	omb fabric							
Refrige	erant	Gas(Flare)	mm(in.)	<u> </u>	ø12.7	(ø1/2)	<u> </u>						
pipe diameter Liquid(Flare) mm(in.)			mm(in.)		ø6.35	(ø1/4)							
Field dr	ain pipe d	liameter	mm(in.)		O.D. 2	26 (1)							
Sound pressure level (Lo-Mid2-Mid1-Hi) *2 *3 dB(A)			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

Indoor unit

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INDOOR UNIT Ceiling concealed type

PEFY-P VMR-E-L/R



640mm

Low Noise

L model R model



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

Enables to install for symmetric design room

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

Easy Maintenance

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

Energy 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.

► Specifications

				PEFY-P20VMR-E-L	PEFY-P25VMR-E-L	PEFY-P32VMR-E-L								
Power sour	rce			1-ph	ase 220-230-240V 50Hz / 1-phase 220-230V	60Hz								
Caalina aa		*1	kW	2.2	2.8	3.6								
Cooling cap	pacity	*1	BTU/h	7,500	9,600	12,300 4.0								
Heating ca	naoit (*1	kW	2.5										
nealing ca	pacity	*1	BTU/h	8,500	10,900	13,600								
Power	Co	ooling	kW	0.06 / 0.06	0.06 / 0.06	0.07 / 0.08								
consumption		eating	kW	0.06 / 0.06	0.06 / 0.06	0.07 / 0.08								
Current		ooling	Α	0.29 / 0.29	0.29 / 0.29	0.34 / 0.38								
Current	He	eating	Α	0.29 / 0.29	0.29 / 0.29	0.34 / 0.38								
External finish					Galvanized									
Dimension Rear inlet mm (in.			mm (in.)		292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)									
$H \times W \times D$	Bottor	m 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 excha	nger				Cross fin (Aluminum fin and copper tube)									
Тур	Type x Quantity				Sirocco fan x 1									
Air	flow rate	, [m³/min	4.8-5	4.8-5.8-9.3									
1	-Mid-Hi	- 1	L/s	80-9	80-97-155									
Tall (LC	-IVIIQ-I II	'	cfm	170-2	170-205-328									
	ternal st essure	tatic *2	Pa											
Motor Typ	ре				1-phase induction motor									
Ou	tput		kW	0.0)18	0.023								
Air filter					PP Honeycomb fabric (washable)									
Refrigerant	G	as	mm(in.)		ø12.7 (ø1/2) Brazed									
pipe diameter Liquid		quid	mm(in.)		ø6.35 (ø1/4) Brazed									
Field drain pipe diameter		mm(in.)		O.D. 26 (1)										
Sound pres	22	20V		20-2	5-30	20-25-33								
	0.0	30V	dB(A)	21-2	6-32	21-26-35								
level (Lo-Mid-Hi) *3	*3 24	10V	Ī	22-2	7-30	22-27-33								

	^3 240V 22-27-30					22-27-33							
				PEFY-P20VMR-E-R	PEFY-P25VMR-E-R	PEFY-P32VMR-E-R							
Power s	ource			1-ph	ase 220-230-240V 50Hz / 1-phase 220-230V 6	60Hz							
Caalina	it	*1	kW	2.2	2.8	3.6							
Cooling	capacity	y *1	BTU/h	7,500	9,600	12,300							
Heating	conocit	*1	kW	2.5									
пеашіў	capacit	*1 BTU/h		8,500	10,900	13,600							
Power		Cooling	kW	0.06 / 0.06	0.06 / 0.06	0.07 / 0.08							
consumption Hea		Heating	kW	0.06 / 0.06	0.06 / 0.06	0.07 / 0.08							
Current		Cooling	Α	0.29 / 0.29	0.29 / 0.29	0.34 / 0.38							
Current		Heating	A 0.29 / 0.29 0.29 / 0.29		0.34 / 0.38								
External finish					Galvanized								
Dimensi		ear inlet	mm (in.)		292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)								
$H \times W \times$	D Bo	ttom inlet	mm (in.)	300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2)									
Net weig			kg(lbs.)		18 (40)								
Heat exc					Cross fin (Aluminum fin and copper tube)								
L	Type x	Quantity			Sirocco fan x 1								
	Airflow	m³/min		4.8-5	4.8-5.8-9.3								
1.	(Lo-Mid		L/s	80-9	80-97-155								
L	`		cfm	170-2	170-205-328								
	Externa pressur		Pa		5								
Motor	Туре				1-phase induction motor								
IVIOLOI	Output		kW	0.0	018	0.023							
Air filter					PP Honeycomb fabric (washable)								
Refrigera	ant	Gas	mm(in.)		ø12.7 (ø1/2) Brazed								
pipe diameter Liquid		Liquid	mm(in.)		ø6.35 (ø1/4) Brazed								
Field drain pipe diameter		diameter	mm(in.)		O.D. 26(1)								
Sound pr	ressure	220V		20-2	25-30	20-25-33							
level (Lo-	-Mid-Hi)	230V	dB(A)	21-2	26-32	21-26-35							
(*3	240V		22-2	27-30	22-27-33							

Notes:

Indoor unit

Indoor unit

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^{*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 **200**mm

Low Noise

790mm

m 990mm 1,190mm

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.

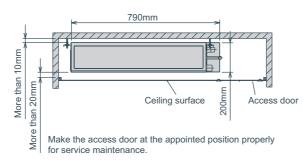
*For places where low noise operation is especially required (i.e. Hotels), VMS1L (without drain pump) is recommended.

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)	
	Capa	city	P15	P20	P25	P32	P40	P50	P63	
Sound pressure	Fan Speed	High	28	29	30	32	33	35	36	
Level		ran		Mid	24	25	26	27	30	32
		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	е				1-phase 220-24	0V 50Hz / 1-phase 2	220-240V 60Hz		
Coolin	g capa	*1	kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1
Cooliii	y capa	*1	BTU/h	5,800	7,500	9,600	12,300	15,400	19,100	24,200
Heating	a cana	city *1	kW	1.9	2.5	3.2	4.0	5.0	6.3	8.0
i icatii i	у сара	*1	BTU/h	6,500	8,500	10,900	13,600	17,100	21,500	27,300
Power	*3	Cooling	kW	0.05 [0.03]	0.05 [0.03]	0.06 [0.04]	0.07 [0.05]	0.07 [0.05]	0.09 [0.07]	0.09 [0.07]
consun	nption	Heating	kW	0.03 [0.03]	0.03 [0.03]	0.04 [0.04]	0.05 [0.05]	0.05 [0.05]	0.07 [0.07]	0.07 [0.07]
Current *3		Cooling	Α	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]
Currer	il J	Heating	Α	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			
Dimen	sion		mm		200 x 79	90 x 700		200 x 9	200 x 1,190 x 700	
HxW	x D		ln.		7-7/8 x 31-1	/8 x 27-9/16		7-7/8 x 39	x 27-9/16	7-7/8 x 46-7/8 x 27-9/16
Net w	eight	*3	kg(lbs.)		19(42) [18(40)]		20(45) [19(42)]	24(53)	[23(51)]	28(62) [27(60)]
Heat e	xchang	jer				Cross fin (A	Aluminium fin and co	pper tube)		
	Туре х	Quantity			Sirocco	fan x 2		Sirocco	fan x 3	Sirocco fan x 4
	Airflov	v rato	m³/min	5-6-7	5.5-6.5-8	5.5-7-9	6-8-10	8-9.5-11	9.5-11-13	12-14-16.5
Fan	(Lo-M		L/s	83-100-117	91-108-133	91-117-150	100-133-167	133-158-183	158-183-217	200-233-275
	(LO-IVI	iu-i ii)	cfm	176-212-247	194-229-282	194-247-317	212-282-353	282-335-388	335-388-459	424-494-583
	Externa	l static press	Pa				5-15-35-50			
Motor	type						DC motor			
IVIOIOI	output	t	kW				0.096			
Air filter	r					PP Ho	neycomb fabric (was	shable)		
Refrigerant	Gas		mm(in.)			Q	12.7 (ø1/2) Brazed	d		ø15.88 (ø5/8) Brazed
pipe diameter	Liquid		mm(in.)			Q	6.35 (ø1/4) Brazed	d		ø9.52 (ø3/8) Brazed
Field drain pipe diameter mm(in.)		mm(in.)				O.D. 32 (1-1/4)				
Sound p	pressur	e level								
(Lo-Mid	,		dB <a>	22-24-28	23-25-29	24-26-30	24-27-32	28-30-33	30-32-35	30-33-36
(mesured	d in anec	choic room)								

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

	,
	PEFY-P15VMS1(L)-E
PURY-P YHM, YJM	0
PUHY-P YHM, YJM	0
PUMY-P VHMA / VHMB	0
PUMY-P YHMA / YHMB	0
PQRY-P YGM	×
PQHY-P YGM	×
PQRY-P YHM	0
PQHY-P YHM	0

Notes

- *1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.

 Cooling: Indoor: 27°CD.B./19°CW.B. (81°FD.B. / 66°FW.B.) Outdoor: 35°CD.B. (95°FD.B.)

 Heating: Indoor: 20°CD.B. (68°FD.B.) Outdoor: 7°CD.B. / 6°CW.B. (45°FD.B. / 43°FW.B.)

 Pipe length: 7.5m (24-9/16ft) Height difference: 0m (0ft)
- *2 The external static pressure is set to 15 Pa at factory shipment.
- *3 [] is in case of PEFY-P15-63VMS1L-E

Indoor unit

Indoor unit

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INDOOR UNIT Ceiling Concealed Type

PEFY-P VMA(L)-E





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.



	PEFY-P\	/MA(L)	20	25	32	40	50	63	71	80	100	125	140
	Height	mm						250					
	Width	mm		700		90	0	1	1,100		1,4	100	1,600
Donth mm								722					

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.

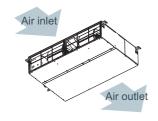
External static pressure setting

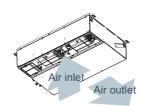
Series	20	25	32	40	50	63	71	80	100	125	140
PEFY-P VMA(L)				35	/50/7	0/100)/150	Pa			

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 VMAL-E No Drain pump

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

Analogue input

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

IT terminal

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

▶ Specifications

				PEFY-P20VMA(L)-E	PEFY-P25VMA(L)-E	PEFY-P32VMA(L)-E	PEFY-P40VMA(L)-E	PEFY-P50VMA(L)-E
Power	sourc	-			1-p	hase 220-230-240V 50 / 60	Hz	
Cooling	g capa	city *1	kW	2.2	2.8	3.6	4.5	5.6
(Nomin	al)	*1	BTU/h	7,500	9,600	12,300	15,400	19,100
Heating	g capa	acity *2	kW	2.5	3.2	4.0	5.0	6.3
(Nomin	al)	*2	BTU/h	8,500	10,900	13,600	17,100	21,500
Power		Cooling *3	kW	0.06 [0.04]	0.06 [0.04]	0.07 [0.05]	0.09 [0.07]	0.11 [0.09]
consum	ption	Heating *3	kW	0.04	0.04	0.05	0.07	0.09
Current F		Cooling *3	Α	0.53 [0.42]	0.53 [0.42]	0.55 [0.44]	0.64 [0.53]	0.74 [0.63]
Curren	۱ [Heating *3	Α	0.42	0.42	0.44	0.53	0.63
Externa	al finis	h				Galvanized steel plate		
Dimon	oion l	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
Dilliens	SIUII	1 X W X D	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 we	ight		kg(lbs)	23 (51) [22 (49)]	23 (51) [22 (49)]	23 (51) [22 (49)] 23 (51) [22 (49)] 26 (58) [25		26 (58) [25 (56)]
Heat ex	xchan	ger			Cross f	in (Aluminum fin and coppe	r tube)	
	Type x Quantity					Sirocco fan x 1		
	۸:-۵	ow rate	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
Fan		ow rate /-Mid-High)	L/s	100 - 125 - 142	100 - 125 - 142	125 - 150 - 175	167 - 200 - 233	200 - 242 - 283
ган	(LOW	-iviia-migri)	cfm	212 - 265 - 300	212 - 265 - 300	265 - 318 - 371	353 - 424 - 494	424 - 512 - 600
	Exte	rnal static sure *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	Туре	•				DC motor		
IVIOLOI	Outp	out	kW	0.085	0.085	0.085	0.085	0.085
Air filte	r					PP honeycomb fabric.		
		Liquid (R410A)	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
Refriger	ant	(R22,R407C)	111111(111.)	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
pipe diar	meter	Gas (R410A)	(i \	12.7 (1/2) Brazed	12.7 (1/20) Brazed	12.7 (1/20) Brazed	12.7 (1/20) Brazed	12.7 (1/2) Brazed
		(R22,R407C)	mm(in.)	12.7 (1/2) Brazed	12.7 (1/20) Brazed	12.7 (1/20) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed
Field dr	ain pi	oe 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	press	ure level (m	neasured in	anechoic room)				
(Low-N	1id-Hiç	gh) *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

		*3 *6	dB(A)	23-25-26	23-25-26	23-20	6-29	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 s	ource				(/	1-phase 220-230			
Cooling	capacit	y *1	kW	7.1	8.0	9.0	11.2	14.0	16.0
(Nomina	al)	*1	BTU/h	24,200	27,300	30,700	38,200	47,800	54,600
Heating	capacit	y *2	kW	8.0	9.0	10.0	12.5	16.0	18.0
(Nomina	al)	*2	BTU/h	27,300	30,700	34,100	42,700	54,600	61,400
Power Cooling		oling *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]
consump	tion He	ating *3	kW	0.10	0.12	0.12	0.22	0.32	0.34
Current	Co	oling *3	Α	1.01 [0.90]	1.15 [1.04]	1.15 [1.04]	1.47 [1.36]	2.05 [1.94]	2.21 [2.10]
Current	He	ating *3	Α	0.90	1.04	1.04	1.36	1.94	2.10
Externa	l finish	•				Galvanized	steel plate	•	•
Dimens	II.	W 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
Dimens	IOII II X	WXD	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 wei	ght		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 ex	change	r				Cross fin (Aluminum	fin and copper tube)		•
	Type x	Quantity							
	A irflow	Airflow rate m³/mir		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
Fan		lid-High)	L/s	225 - 267 - 317	242 - 300 - 350	242 - 300 - 350	383 - 467 - 550	467 - 567 - 667	492 - 592 - 700
rall	(LOW-IVI	iiu-riigii)	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		<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	Туре					DC n	notor		
IVIOLOI	Output		kW	0.121	0.121	0.121	0.244	0.244	0.244
Air filter						PP honeyo	omb fabric.		
	Liqu	uid (R410A)	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
Refrigera	nt (R2	22,R407C)	11111(111.)	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
pipe dian	neter Gas	s (R410A)	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
	(R2	2,R407C)	111111(111.)	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed
Field dra	ain 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-Mi	id-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	

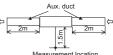
- [] is in case of PEFY-P VMAL-E
- Nominal cooling conditions Indoor: 27°CDB/19°CWB(81°FDB/66°FWB), Outdoor: 35°CDB(95°FDB) Pipe length: 7.5m(24-9/16ft.), Level difference: 0m(0ft.)

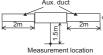
- Pipe length: 7.5m(24-9/16ft.), Level difference: 0m(0ft.)

 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





Indoor unit

Indoor unit

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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	P40	P40 P50 P63 P71 P80 P100 P125 P140						P200	P250			
	220V		50/100/200									
External static	230/240V	100/150/200								_	_	
pressure (Pa)	380V									110/220		
(. a)	400/415V				_				130/26			

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

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

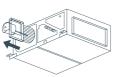
Reduced noise thanks to the use of newly designed centrifugal fan

Sound pressure level table (Standard static pressure 220V)

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

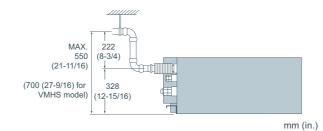
One-side maintenance

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 220-24	0V 60Hz			
Cooling capacity *		. *1	kW	4.5	5.6	7.1	8.0	9.0	11.2	14.0	16.0	
		^y *1	BTU/h	15,400	19,100	24,200	27,300	30,700	38,200	47,800	54,600	
Heating capacit		*1	kW	5.0	6.3	8.0	9.0	10.0	12.5	16.0	18.0	
neaun			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	0.32 / 0.40	0.48	/ 0.58	0.48 / 0.59	
		Heating	kW	0.19	0.23	0.24 / 0.30	0.26 / 0.33	0.32 / 0.40	0.48	/ 0.58	0.48 / 0.59	
Current		Cooling	Α	0.88	1.06	1.12 / 1.38	1.20 / 1.51	1.47 / 1.83	2.34	/ 2.66	2.35 / 2.70	
Curren	ι	Heating	Α	0.88	1.06	1.12 / 1.38	1.20 / 1.51	1.47 / 1.83	2.34	/ 2.66	2.35 / 2.70	
Externa	al finish						Galva	nized				
Dimension H x W x D mm in.		mm		380 x 750 x 900		380 x 1,0	000 x 900		380 x 1,200 x 900)		
		in.	15	x 29-9/16 x 35-7	16	15 x 39-3/8	3 x 35-7/16	15	5 x 47-1/4 x 35-7/	16		
Net weight kg(lbs.)		kg(lbs.)	44 (98)	45 (100)	50 (111)		70 (155)			
Heat e	xchange	r				Cross	fin (Aluminum pla	ate fin and coppe	r tube)			
Type		Type x Quantity		Sirocco fan x 1						Sirocco fan x 2		
	Airflow	rata	m³/min	10.0-14.0		13.5-19.0	15.5-22.0	18.0-25.0	26.5	-38.0	28.0-40.0	
Fan	(Lo-Hi)		L/s	167-233		225-317	258-367	300-417	442	-633	467-667	
ran	(LO-111)		cfm	353-494		477-671	547-777	636-883	936-1342 98		989-1413	
	External static	220V	Pa	50 · 100 · 200								
	pressure *2	230,240V	Pa				100 · 1	50 · 200				
Motor	Туре						1-phase ind	uction motor				
IVIOLOI	Output	*3	kW	0.	08	0.12	0.14	0.18		0.26		
Air filte	r (option))				Synth	ethic fiber unwov	en cloth filter (lor	ng life)			
Refrige	erant	Gas (Flare)	mm(in.)	ø12.7	(ø1/2)		ø15.88 (ø5/8)					
pipe di	ameter	Liquid (Flare)	mm(in.)	ø6.35	(ø1/4)		ø9.52 (ø3/8)					
Field dr	rain pipe	diameter	mm(in.)				O.D. 32	2 (1-1/4)				
	pressure		dB(A)	27-	-34	32-38	32-39	35-41		34-42		
level (L	o-Hi) *6	230,240V	dB(A)	31-	-37	36-41	35-41	38-43		38-44		

,		200,2101	35(1)					
				PEFY-P200VMH-E	PEFY-P250VMH-E	PEFY-P200VMHS-E	PEFY-P250VMHS-E	
Power	source			<u>'</u>	z / 3N ~ 380-415V 60Hz	1-phase 220-240V 50Hz /	<u>'</u>	
Cooling	capacit	*1 v	kW	22.4	28.0	22.4	28.0	
COOMING	y oupdoit	- 1	BTU/h	76,400	95,500	76,400	95,500	
Heating	capacit	*1	kW	25.0	31.5	25.0	31.5	
ricating	y capacit	*1	BTU/h	85,300	107,500	85,300	107,500	
Power		Cooling	kW	0.99 / 1.14	1.23 / 1.41	0.63 *7	0.82 *7	
consun	nption	Heating	kW	0.99 / 1.14	1.23 / 1.41	0.63 *7	0.82 *7	
	Cooling	380-415V	Α	1.62 / 1.86	2.00 / 2.30	_	_	
Current	Cooling	220-230-240V	Α	-	_	3.47-3.32-3.18 *7	4.72-4.43-4.14 *7	
Current	Hastina	380-415V	Α	1.62 / 1.86	2.00 / 2.30	_	_	
	Heating	220-230-240V	Α	_	_	3.47-3.32-3.18 *7	4.72-4.43-4.14 *7	
Externa	al finish	•		Galva	nized	Galvanized	steel plate	
	mm mm		mm	470 x 1,25	50 x 1,120	470 x 1,250 x 1,120		
Dimension H x W x D in.		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.)		kg(lbs.)	100	(221)	97 (214)	100 (221)		
Heat exchange		r	,	Cross fin (Aluminum pla	ate fin and copper tube)	Cross fin (Aluminum pla	ate fin and copper tube)	
		Quantity		Sirocco	fan x 2	Sirocco		
		-	m³/min	58.0	72.0	_	_	
	Airflow	rate	L/s	967	1200	_	_	
			cfm	2048	2543	_	_	
			m³/min	_	_	50.0-61.0-72.0	58.0-71.0-84.0	
Fan		Lo-Mid-Hi	L/s		_	833-1017-1200	967-1183-1400	
		LO-IVIIG-I II	cfm	_	_	1766-2154-2542	2048-2507-2966	
		380V	Pa	110	· 220 *4		-	
	External static	400,415V	Pa		· 260 *4	_	-	
	pressure	100,1101	Pa		-	- <50>-<100>-150-<200>-<250> *8		
	processo		mmH ₂ O		-		3-<20.4>-<25.5> *8	
	Type		1111111120	3-nhase ind	uction motor	DC n	· · · · · · · · · · · · · · · · · · ·	
Motor	Output		kW	0.76 *5	1.08 *5	0.87	0.87	
Air filto	r(option)		KVV	· · · ·	en cloth filter (long life)	Synthethic fiber unwoven cloth filter (long		
	\ , ,	Gas	mm(in.)	ø19.05 (ø3/4)	ø22.2 (ø7/8)	ø19.05 (ø3/4)	ø22.2 (ø7/8)	
Refrige pipe dia		(Brazed) Liquid	mm(in.)	ø9.52	(ø3/8)	ø9.52	(ø3/8)	
		(Brazed)	` ′		` '		` '	
Field dr	ain pipe		mm(in.)		2 (1-1/4)	O.D. 32	(1-1/4)	
Sound r	oressure	380V	dB(A)	42 (110Pa) / 45 (220Pa) *6	50 (110Pa) / 52 (220Pa) *6	_	_	
level		400,415V	dB(A)	44 (130Pa) / 47 (260Pa) *6	52 (130Pa) / 54 (260Pa) *6	-	_	
.5401		Lo-Mid-Hi	dB(A)	_	_	36-39-43 *9	39-42-46 *9	

- *1 Cooling/heating capacity indicates the maximum value at operation under the following condition Cooling Indoor: 27°C(81°F)DB/19°C(66°F)WB, Outdoo r: 35°C(95°F)DB Heating Indoor : 20°C(68°F)DB, Outdoor : 7°C(45°F)DB/6°C(43°F)WB
- *2 The external static pressure is set to 100Pa (at 220V) /150Pa (at 230, 240V) at factory shipment.
- *3 The value are that at 240V.
 - *4 The external static pressure is set to 220Pa (at 380V) /260Pa (at 400, 415V) at factory shipment.
- *5 The value are that at 415V.

- *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

Indoor unit

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INDOOR UNIT Fresh Air Intake Type

PEFY-P VMH-E-F







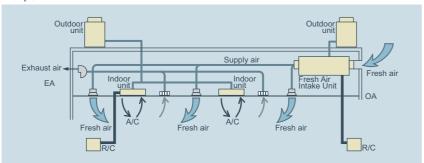
The Fresh Air intake indoor unit can be installed in any place.

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

► Specifications

				PEFY-P80VMH-E-F	PEFY-P140VMH-E-F
Power	source			1-phase 220-240V 50Hz	/ 1-phase 208-230V 60Hz
Cooling	capacit	. *1	kW	9.0	16.0
Cooling	capacit	^y *1	BTU/h	30,700	54,600
116-		*1	kW	8.5	15.1
Heating	g capacit	·y *1	BTU/h	29,000	51,500
Power		Cooling	kW	0.16 / 0.21	0.29 / 0.33
consu	nption	Heating	kW	0.16 / 0.21	0.29 / 0.33
		Cooling	Α	0.67 / 0.91	1.24 / 1.48
Curren	I	Heating	Α	0.67 / 0.91	1.24 / 1.48
Externa	al finish			Galva	anized
Dimens	sion		(' \	380 x 1000 x 900	380 x 1200 x 900
H x W	k D		mm(in.)	(15 x 39-3/8 x 35-7/16)	(15 x 47-1/4 x 35-7/16)
Net we	ight		kg(lbs.)	50 (111)	70 (155)
Heat ex	change	r		Cross fin (Aluminum pla	ate fin and copper tube)
	Type x Quautity			Sirocco fan x 1	Sirocco fan x 2
			m³/min	9.0	18.0
	Airflow rate		L/s	150	300
Fan		İ	cfm	318	636
ran	External	208V	Pa	35 - 85 - 170	35 - 85 - 170
	static	220V	Pa	40 - 115 - 190	50 - 115 - 190
	pressure	230V	Pa	50 - 130 - 210	60 - 130 - 220
	(Lo-Mid-Hi)	240V	Pa	80 - 170 - 220	100 - 170 - 240
	Type			1-phase inde	uction motor
Motor	Output		kW	0.09 (at 220V)	0.14 (at 220V)
Air filte	(option))		Synthetic fiber unwove	en cloth filter (long life)
Refrige	rant	Gas (Flare)	mm(in.)	ø15.88	3 (ø5/8)
pipe dia	ameter	Liquid (Flare)	mm(in.)	ø9.52	(ø3/8)
Field dr	ain pipe	diameter	mm(in.)	O.D.32	
Sound pre	ssure level	208, 220V	dB(A)	27 - 38 - 43	28 - 38 - 43
(Lo-Mid-H) *2	230, 240V	dB(A)	33 - 43 - 45	34 - 43 - 45
				PEFY-P200VMH-E-F	PEFY-P250 VMH-E-F
Power	source			3-phase 380-415V 50H	z / 3N~ 380-415V 60Hz
Caali		:	kW	22.4	28.0
Cooiin	g capac	ity	BTU/h	76,400	95,500

				PEFY-P200VMH-E-F	PEFY-P250 VMH-E-F	
Power	source			3-phase 380-415V 50Hz	z / 3N~ 380-415V 60Hz	
Caalia			kW	22.4	28.0	
Coolin	consumption Current External finish Dimension H x W x D Net weight Heat exchange Type x Airflow External static pressure Type	ity	BTU/h	76,400	95,500	
11			kW	21.2	26.5	
neaun	g capac	ity	BTU/h	72,300	90,400	
Power		Cooling	kW	0.34 / 0.42	0.39 / 0.50	
consu	mption	Heating	kW	0.34 / 0.42	0.39 / 0.50	
C		Cooling	Α	0.58 / 0.74	0.68 / 0.86	
Curren	IL	Heating	Α	0.58 / 0.74	0.68 / 0.86	
Extern	al finish			Galva	anized	
Dimen	sion		(in)	470 x 125	50 x 1120	
HxW	x D		mm(in.)	(18-9/16 x 49-	-1/4 x 44-1/8)	
Net we	eight		kg(lbs.)	100	(221)	
Heat e	xchange	er		Cross fin (Aluminum pla	ate fin and copper tube)	
	Type x Quautity		,	Sirocco	fan x 2	
			m³/min	28	35	
	Airflow rate		L/s	467	583	
Fan			cfm	989	1236	
	External	380V	Pa	140 / 200	110 / 190	
	static	400V	Pa	150 / 210	120 / 200	
	pressure	415V	Pa	160 / 220	130 / 210	
Matar	Туре			3-phase ind	uction motor	
IVIOLOI	Output		kW	0.20	0.23	
Air filte	r (optio	n)		Synthetic fiber unmoven	cloth filter (long life type)	
Refrige	erant	Gas (Flare)	mm(in.)	ø19.05 (ø3/4)	ø22.2 (ø7/8)	
		Liquid (Flare)	mm(in.)	ø9.52	? (ø3/8)	
Field dr	ain pipe		mm(in.)	O.D.32	(1-1/4)	
		380V	dB(A)	39 / 42	40 / 44	
Sound p		400V	dB(A)	40 / 43	40 / 45	
level	*2	415V	dB(A)	40 / 44	41 / 46	

- 1. The cooling and heating capacites are the maximum capacites that were obitained by operating in the above air conditions and with a refrigerant pipe of about 7.5m.
- 2 .The actual capacity characteristics vary with the combination of indoor and outdoor units. See the technical infomation.
 3 .The operating noise is the data that was obitained by measuring it 1.5m from the the bottom of the unit in an anechoic room. (Noise meter A-scale value)
 4 .The figure of Electrical characteristic indicates at 240V 50Hz/230V60Hz (PEFY-P80, 140VHHz-F type), at 220VPa setting at 415V (PEFY-P200, 250VMH-E-F type).
 5 . When the 100% fresh air indoor units are connected, the maximum connectable indoor units to 1 outdoor unit are as follows
 - 110%(100% in case of heating below-5°C(23°F)) 110%
- 10%(10% in case of rieating below-5 c(25 F)) 10%

 6. 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 in cooling mode or when the temperature exceeds 20°C(68°F)DB in heating mode.

 7. 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.

 8. Autochangeover function or Dry mode is NOT available. Fan mode operation during the thermo off in Cooling/Heating mode.

 9. In any case, the air flow rate should be kept lower than 110% of the above chart. Please see "Fan curves" for the details.

 10. When this unit is used as sole A/C system, be careful about the dew in air outlet grilles in cooling mode.

 11. 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.

 12. Air filter must be installed in the air intake side. The filter should be attached where easy maintenance in possible in case of usage of fild supply filters.

 13. Long life cannot be used with Hi-efficiency filter together (PEFY-P80 · 140VMH-E-F type).

Indoor unit

Indoor unit

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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)

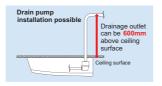
Greatly simplified installation

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

Indoor unit

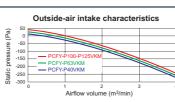
Drain pump option available with all models

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



Outside-air intake

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



Equipped with automatic air-speed adjustment

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



▶ Specifications

				PCFY-P40VKM-E	PCFY-P63VKM-E	PCFY-P100VKM-E	PCFY-P125VKM-E			
Power source					1-phase 220-240V 50H	z / 1-phase 220V 60Hz				
Cooling	a consoit	. *1	kW	4.5	7.1	11.2	14.0			
Coomi	g capacit	- 1	BTU/h	15,400	24,200	38,200	47,800			
Heatin	g capacit	*1	kW	5.0	8.0	12.5	16.0			
пеашц	g capacii	·y *1	BTU/h	17,100	27,300	42,700	54,600			
Power		Cooling	kW	0.04	0.05	0.09	0.11			
consu	mption	Heating	kW	0.04	0.05	0.09	0.11			
Curren		Cooling	Α	0.28	0.33	0.65	0.76			
Curren	ıı	Heating	Α	0.28	0.33	0.65	0.76			
External finish(Munsell No.)			No.)	6.4Y 8.9/ 0.4						
Dimension HxWxD			mm	230 x 960 x 680	230 x 1,280 x 680	230 x 1,6	600 x 680			
Dimen	sion H X	WXD	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 6	3 x 26-3/4			
Net we	eight kg(lbs.)		kg(lbs.)	24(53)	32 (71)	36 (79)	38 (84)			
Heat e	xchanger	r			Cross fin (Aluminum	fin and copper tube)				
	Type x Quantity			Sirocco fan x 2	Sirocco fan x 3	Sirocco	fan x 4			
	Airflow i	*2	m³/min	10-11-12-13	14-15-16-18	21-24-26-28	21-24-27-31			
Fan		-Mid1-Hi)	L/s	167-183-200-217	233-250-267-300	350-400-433-467	350-400-450-517			
	(LO-IVIIUZ-	-iviiu i -mi)	cfm	353-388-424-459	494-530-565-636	742-847-918-989	742-847-953-1,095			
	External sta	atic pressure	Pa	0						
	Type			DC motor						
Motor	Output		kW	0.090	0.095	0.1	60			
Air filte	r			PP Honeycomb (long life)						
Refrige	erant	Gas (Flare)	mm(in.)	ø12.7 (ø1/2)	ø15.88 (ø5/8)	ø15.88 (ø5/8) / ø19.0	5 (ø3/4) (Compatible)			
pipe di	ameter	Liquid (Flare)	mm(in.)	ø6.35 (ø1/4)		ø9.52 (ø3/8)				
Field di	rain pipe	diameter	mm(in.)		O.D. 2	6 (1)				
	pressure 12-Mid1-H		dB(A)	29-32-34-36	31-33-35-37	36-38-41-43	36-39-42-44			

- Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling Indoor: $27^{\circ}C(80.6^{\circ}F)DB/19^{\circ}C(66.2^{\circ}F)WB,Outdoor: 35^{\circ}C(95^{\circ}F)DB$ Heating Indoor: 20°C(68°F)DB,Outdoor 7°C(44.6°F)DB/6°C(42.8°F)WB
- *2 Airflw rate/Sound pressure level are shown in (low-middle 2-middle 1-high).

*3 It is measured in anechoic room.

Indoor unit

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INDOOR UNIT Wall mounted type

PKFY-P VBM-E PKFY-P VHM-E PKFY-P VKM-E





PKFY-P VKM



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

4-way piping provides more flexibility in selecting installation sites

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

Flat panel & Pure white finish

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.



PKFY-P VHM features

Built-in signal receiver

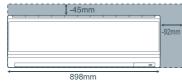
PKFY-P VBM features

Compact profile

Quiet operation

Compact size of 898mm

Width size reduced to match small size buildings and offices.



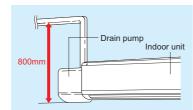
Comparison with PKFY-P VGM-E

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 *1		kW	1.7	2.2	2.8	3.6	4.5	5.6			
		*1	BTU/h	5,800	5,800 7,500 9,600		12,300	15,400	19,100		
Haatin	tapacity *1	it.	kW	1.9	2.5	3.2	4.0	5.0	6.3		
neaun	y capac	*1	BTU/h	6,500	8,500	10,900	13,600	17,100	21,500		
Power		Cooling*4 kW			0.04			0.04			
consumption Heating		Heating	kW		0.04		0.03				
Current Cooling*		Cooling *4	Α		0.20		0.40				
Curren	۱ [Heating	Α		0.20		0.30				
External finish(Munsell No.)		No.)		Plastic (1.0Y 9.2/0.2) Plastic (1.0Y 9.2/0.2							
Dimension H x W x D mm(in.		mm(in.)	295 x 815	5 x 225 (11-5/8 x 32-1/8	3 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)				
	Type x Quantity					Line flow	v fan x 1				
	Airflou	flow rate *2 m³/min		4.9-5.0-5.2-5.3	.9-5.0-5.2-5.3 4.9-5.2-5.6-5.9			9-10.5-11.5	9-10.5-12		
Fan	Airflow rate		n (Lo-Mid2-Mid1-Hi)		L/s	82-83-87-88	82-87	-93-98	150-167-183	150-175-192	150-175-200
	(LO-WIIC	12-IVIIU I-I II)	cfm	173-177-184-187	173-184-198-208		318-353-388	318-371-406	318-371-424		
	External	static pressure	Pa			()				
Motor	Туре			1-phase induction motor			DC motor				
IVIOLOI	Outpu	t	kW		0.017			0.030			
Air filte	r					PP Hon	eycomb				
		Gas	mm(in.)			ø12.7 (ø1/2)			ø12.7 (ø1/2) / ø15.88 (ø5/8)		
Refrige	erant	(Flare)	111111(111.)			Ø12.7 (Ø172)			(Compatible)		
pipe di	ameter	Liquid	mm(in.)			ac 25 (a1/4)	ø6.35 (ø1/4) / ø9.52				
		(Flare)	111111(111.)	ø6.35 (ø1/4)		(Compatible)					
Field di	rain pipe	diameter	mm(in.)			I.D.16	6 (5/8)				
	pressui d2-Mid1-	re level ·Hi) *2 *3	dB(A)	29-31-32-33	29-31	-34-36	34-37-41	34-38-41	34-39-43		

- *1 Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling Indoor: 27°C(81°F)DB/19°C(66°F)WB,Outdoor: 35°C(95°F)DB Heating Indoor: 20°C(68°F)DB,Outdoor: 7°C(45°F)DB/6°C(43°F)WB
- *2 Airflow rate/Sound pressure level are in (low-middle2-middle1-high).
- *3 It is measured in anechoic room
- *4 Electrical characteristic of cooling are included optional drain-pump.

				PKFY-P63VKM-E	PKFY-P100VKM-E	
Power	source			1-phase 220-230-240V 50	0Hz / 1-phase 220V 60Hz	
0 !:		., *1	kW	7.1	11.2	
Cooling	g capac	ity *1	BTU/h	24,200	38,200	
116-		*1	kW	8.0	12.5	
Heating	g capac	⁽¹¹⁾ *1	BTU/h	27,300	42,600	
Power	(Cooling *4	kW	0.05	0.08	
consur	nption	Heating	kW	0.04	0.07	
Curren	. (Cooling *4	Α	0.37	0.58	
Curren	١	Heating	Α	0.30	0.51	
Externa	al finish	(Munsell N	lo.)	Plastic (1.0	OY 9.2/0.2)	
Dimens	sion 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 we	ight		kg(lbs.)	21 (· ,	
Heat e	xchange			Cross fin (Aluminum	,	
	Type x Quantity			Line flov	v fan x 1	
	Airflow rate *2		m³/min	16-20	20-26	
Fan	(Lo-Hi		L/s	267-333	333-433	
	(LO-III	'' [cfm	565-706	706-918	
	External	static pressure	Pa)	
Motor	Туре			DC n	notor	
IVIOLOI	Outpu	t	kW	0.0		
Air filte	r			PP Hon	eycomb	
Refrige	erant	Gas (Flare)	mm(in.)	ø15.88 (ø5/8)	ø15.88 (ø5/8) / ø19.05 (ø3/4) (Compatible)	
pipe di	ameter	Liquid (Flare)	mm(in.)	ø9.52	2 (ø3/8)	
Field di	rain pipe	diameter	mm(in.)	I.D. 1	6(5/8)	
Sound (Lo-Hi)	pressu	re level *2 *3	dB(A)	39-45	41-49	

- 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

Indoor unit

Page 107 Page 108

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.



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.

27dB

80dB 60dB 40dB	27dB the quietest	10dB

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

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

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 Easy and regular cleaning



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

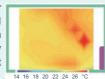
Optimum Air Distribution

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 controllable, with 5 air flow direction levels (+Swing and Auto modes) and 4 wind power levels (+Auto mode).

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



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



▶ Specifications

				PFFY-P20VKM-E2	PFFY-P25VKM-E2	PFFY-P32VKM-E2	PFFY-P40VKM-E2				
Power	source				1-phase 220	0-240V 50Hz					
Caalin		*1	kW	2.2	2.8	3.6	4.5				
Cooling	g capacit	^{ty} *1	BTU/h	7,500	9,600	12,300	15,400				
Hootin	g capaci	. *1	kW	2.5	3.2	4.0	5.0				
пеаші	y capaci	^{ty} *1	BTU/h	8,500	10,900	13,600	17,100				
Power		Cooling	kW	0.025	0.025	0.025	0.028				
consur	nption	Heating	kW	0.025	0.025	0.025	0.028				
Curren		Cooling	Α	0.20	0.20	0.20	0.24				
Curren	ıL	Heating	Α	0.20	0.20	0.20	0.24				
Extern	al finish				Plastic (Pure white)						
Dimension m			mm	600 x 700 x 200							
HxW	x D		in.	23-5/8 x 27-9/16 x 7-7/8							
Net we	eight		kg(lbs.)		15	(34)					
Heat e	xchange	r			Cross fin (Alminium pla	ate fin and copper tube)					
	Type x Quantity			Line flow fan x 2							
Fan	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				
	Faternal static		Pa		(0					
Motor	Туре				DC r	notor					
IVIOLOF	Output		kW		0.03	3 x 2					
Air filte	r				PP honeycomb fab	ric (Catechin Filter)					
Refrigerant Gas(Flare) mm(in		mm(in.)		ø12.7	(ø1/2)						
pipe di	ameter	Liquid(Flare)	mm(in.)		ø6.35	(ø1/4)					
Field d	rain pipe	diameter	r		I.D.16	6 (5/8)					
	pressure d-Hi-SHi		dB(A)	27-31-34-37	28-32-35-38	28-32-35-38	35-38-42-44				

Notes:

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

Indoor unit

Indoor unit

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^{*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 220mm(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-p	hase 220-240V 50Hz /	1-phase 208-230V 60	Hz	
Caslin		*1	kW	2.2	2.8	3.6	4.5	5.6	7.1
Coolini	g capacit	y *1	BTU/h	7,500	9,600	12,300	15,400	19,100	24,200
116-		*1	kW	2.5	3.2	4.0	5.0	6.3	8.0
Heatin	g capacit	y *1	BTU/h	8,500	10,900	13,600	17,100	21,500	27,300
Power		Cooling	kW	0.04	/ 0.06	0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11
consu	mption	Heating	kW	0.04	/ 0.06	0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11
C		Cooling	Α	0.19 / 0.25		0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47
Curren	Current		Α	0.19	/ 0.25	0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47
Extern	al finish(I	Munsell N	lo.)			Acrylic pai	nt (5Y 8/1)		
Dimon	sion H x	W D	mm	630 x 1,0	050 x 220	630 x 1,1	70 x 220	630 x 1,4	110 x 220
Dimen	SIOII II X	WXD	in.	24-13/16 x 41	-3/8 x 8-11/16	24-13/16 x 46	-1/8 x 8-11/16	24-13/16 x 55-	-9/16 x 8-11/16
Net we	eight		kg(lbs.)	23 (51)		25 (56)	26 (58)	30 (67)	32 (71)
Heat e	xchange	r			(Cross fin (Aluminum pla	ate fin and copper tube)	
	Type x	Quantity		Sirocco	fan x 1		Sirocco	fan x 2	
	A :==0 =		m³/min	5.5	-6.5	7.0-9.0	9.0-11.0	12.0-14.0	12.0-15.5
Fan	Alfilow	rate *2	L/s	92-108		117-150	150-183	200-233	200-258
	(Lo-Hi)		cfm	194-230		247-318	318-388	424-494	424-547
	External sta	atic pressure	Pa			()		
Motor	Туре					1-phase indu	uction motor		
Motor	Output		kW	0.0)15	0.018 0.030		0.035	0.050
Air filte	r					PP Honeycomb f	abric (washable)		
Refrige	erant	Gas (Flare)	mm(in.)			ø12.7 (ø1/2)			ø15.88 (ø5/8)
pipe di	ameter	Liquid (Flare)	mm(in.)		ø9.52 (ø3/8)				
Field d	rain pipe	diameter	mm(in.)		I.D.26 (1)	<accessory hose="" o.d.2<="" td=""><td>27 (1-3/32) (top end :20</td><td>(13/16))></td><td></td></accessory>	27 (1-3/32) (top end :20	(13/16))>	
Sound (Lo-Hi)	pressure *2	e level *3 *4	dB(A)	34	-40	35-40	38-	-43	40-46

Notes:

- *1 Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling Indoor: 27°C(81°F)DB/19°C(66°F)WB,Outdoor 35°C(95°F)DB Heating Indoor: 20°C(68°F)DB, Outdoor 7°C(45°F)DB/6°C(43°F)WB
- *2 Air flow rate/Sound pressure level are in (Low-High)
- *3 Measured point : 1m x 1m, Power supply : AC240V/50Hz · 1dB(A) lower at AC230V/50Hz · 2dB(A) lower at AC220V/50Hz · 3dB(A) lower at 1.5m x 1.5m point
- *4 It is measured in anechoic room.

Indoor unit

Indoor unit

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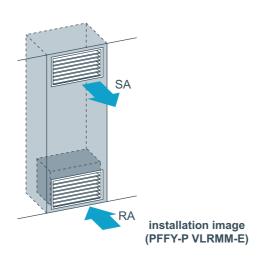
INDOOR UNIT Floor mounted concealed type

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				1-1	hase 220-240V 50Hz /	1-phase 208-230V 60	Hz		
		*1	kW	2.2	2.8	3.6	4.5	5.6	7.1	
Cooling	g capacit	y *1	BTU/h	7,500	9,600	12,300	15,400	19,100	24,200	
Hantine		*1	kW	2.5	3.2	4.0	5.0	6.3	8.0	
neaung	g capacit	·y *1	BTU/h	8,500	10,900	13,600	17,100	21,500	27,300	
Power Cooling kW		kW	0.04	/ 0.06	0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11		
consur	mption	Heating	kW	0.04	/ 0.06	0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11	
Current		Cooling	Α	0.19	/ 0.25	0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47	
Curren	ι	Heating	Α	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			
Dimon	sion H x	W D	mm	639 x 8	86 x 220	639 x 1,0	06 x 220	639 x 1,2	246 x 220	
Dimens	SIOII II X	WXD	in.	25-3/16 x 34-1	5/16 x 8-11/16	25-3/16 x 39-	5/8 x 8-11/16	25-3/16 x 49-	1/16 x 8-11/16	
Net we	ight		kg(lbs.)	18.5	(41)	20 (45)	21 (47)	25 (56)	27 (60)	
Heat ex	xchange	r				Cross fin (Aluminum pla	ate fin and copper tube))		
	Type x	Quautity		Sirocco	fan x 1		Sirocco	fan x 2		
	Airflow	rato *2	m³/min	5.5	-6.5	7.0-9.0	9.0-11.0	12.0-14.0	12.0-15.5	
Fan	(Lo-Hi)	Tale	L/s	92-108		117-150	150-183	200-233	200-258	
	(LU-III)		cfm	194	-230	247-318 318-388		424-494	424-547	
	External sta	atic pressure	Pa	0						
Motor	Туре					1-phase indu	uction motor			
IVIOLOI	Output		kW	0.0)15	0.018	0.030	0.035	0.050	
Air filte	r					PP Honeycomb f	abric (washable)			
Refrige	erant	Gas (Flare)	mm(in.)		ø12.7 (ø1/2)					
pipe dia	pipe diameter Liqu (Fla		mm(in.)			ø9.52 (ø3/8)				
Field dr	ain pipe	diameter	mm(in.)		I.D.26 (1)	<accessory hose="" o.d.2<="" td=""><td></td></accessory>				
Sound (Lo-Hi)	pressure	e level *2 *3 *4	dB(A)	34	-40	35-40				

- 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.

Fan												
Cooling capacity					PFFY-P20VLRMM-E	PFFY-P25VLRMM-E	PFFY-P32VLRMM-E	PFFY-P40VLRMM-E	PFFY-P50VLRMM-E	PFFY-P63VLRMM-E		
Cooling capacity	Power	source				1-բ	hase 220-240V 50Hz /	1-phase 220-240V 60	Hz			
Heating capacity Heating capacity Heating capacity Heating capacity Heating capacity Heating capacity Heating capacity Heating capacity Heating KW D.0.4 D.0.4 D.0.4 D.0.5 D.0.5 D.0.5 D.0.7	Caalin	i		kW	2.2	2.8	3.6	4.5	5.6	7.1		
Heating capacity Tourish BTU/h 8,500 10,900 13,600 17,100 21,500 27,300	Cooling	g capacit	^y *1	BTU/h	7,500	9,600	12,300	15,400	19,100	24,200		
Power Cooling kW 0.04 0.04 0.05 0.05 0.05 0.07	Hooting	a conocit		kW	2.5	3.2	4.0	5.0	6.3	8.0		
Consumption Heating kW 0.04 0.04 0.05 0.05 0.07	пеаші	y capacit	^y *1	BTU/h	8,500	10,900	13,600	17,100	21,500	27,300		
Courrent	Power		Cooling	kW	0.	04	0.04	0.05	0.05	0.07		
Heating A 0.34 0.38 0.43 0.48 0.59	consu	Should be a second seco		04	0.04	0.05	0.05	0.07				
External finish(Munsell No.) External finish(Munsell No.) Galvanized steel plate	Curron		Cooling	Α	0.	34	0.38	0.43	0.48	0.59		
Dimension H x W x D mm 639 x 886 x 220 639 x 1,006 x 220 639 x 1,246 x 220	Curren			Α	0.	34	0.38	0.43	0.48	0.59		
Dimension H x W x D Inc. 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 25-3/16 x 39-5/8 x 8-11/16 25-3/16 x 49-1/16 x 49-1/16 x 49-1/	External finish(Munsell No.)						Galvanized	steel plate				
Net weight Kg(lbs.) 18.5 (41) 20 (45) 21 (47) 25 (56) 27 (60)	Dimon	oion U v	W v D	mm	639 x 88	36 x 220	639 x 1,0	06 x 220	639 x 1,246 x 220			
Heat exchanger	Dilliens	SIUII II X	WXD	in.	25-3/16 x 34-1	5/16 x 8-11/16	25-3/16 x 39-	5/8 x 8-11/16	25-3/16 x 49-	1/16 x 8-11/16		
Type x Quautity	Net we	eight		kg(lbs.)	18.5	` '		21 (47)	25 (56)	27 (60)		
Airflow rate (Lo-Mid-Hi)	Heat e	xchanger				(Cross fin (Aluminum pla	ate fin and copper tube)			
Fan		Type x 0	Quautity		Sirocco	fan x 1		Sirocco	fan x 2			
Fan (L0-Mid-H)		Airflow	rato	m³/min	4.5-5.5-6.5		6.5-7.5-9.0	8.0-9.5-11.0	10.0-12.0-14.0	11.0-13.0-15.5		
Composition Composition	Fan			L/s	75-92	2-108	108-125-150	133-158-183	167-200-233	183-217-258		
Type		(LO-IVIIU-I	")	cfm	159-19	94-230			353-424-494	388-459-547		
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 Field drain pipe diameter Liquid mm(in.) ø6.35 (ø1/4) Brazed ø9.52 (ø3/8) Brazed Field drain pipe diameter mm(in.) I.D.26 (1) <accessory (1-3="" (13="" (top="" 16))="" 32)="" :20="" end="" hose="" o.d.27=""> Sound pressure level (Lo-Mid-Hi) 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</accessory>		External station	pressure +2	Pa		20/40/60						
Output RW Output Output	Motor	Type					DC n	notor				
Refrigerant pipe diameter Gas pipe diameter mm(in.) ø12.7 (ø1/2) Brazed ø15.88 (ø5/8) Brazed ø5/80 ps.2 (ø3/8) Brazed ø9.52 (ø3/8) Brazed	IVIOLOI	Output		kW								
pipe diameter Liquid mm(in.) ø6.35 (ø1/4) Brazed ø9.52 (ø3/8) Brazed 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 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	Air filte	r					PP Honeycomb f	abric (washable)				
Field drain pipe diameter mm(in.) I.D.26 (1) <accessory (1-3="" (13="" (top="" 16))="" 32)="" :20="" end="" hose="" o.d.27=""> 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</accessory>	Refrige	erant	Gas	mm(in.)			ø12.7 (ø1/	2) Brazed		ø15.88 (ø5/8) Brazed		
Sound pressure level (Lo-Mid-Hi) 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	pipe di	ameter	Liquid	mm(in.)			,	,		ø9.52 (ø3/8) Brazed		
level (Lo-Mid-Hi) 40Pa dB(A) 34-39-42 30-35-41 32-38-42 35-40-44 36-42-47	Field di	rain pipe o	diameter	mm(in.)		I.D.26 (1)	<accessory hose="" o.d.2<="" td=""><td>27 (1-3/32) (top end :20</td><td>) (13/16))></td><td></td></accessory>	27 (1-3/32) (top end :20) (13/16))>			
575. (25 mil 7 m)	Sound	pressure	20Pa	dB(A)	31-3	6-40	27-32-37	30-36-40	32-37-41	35-40-44		
*3 60Pa dB(A) 35-40-43 32-37-42 3,5-39-44 36-41-45 38-43-48	level (Le	o-Mid-Hi)	40Pa	dB(A)	34-3	9-42	30-35-41	32-38-42	35-40-44	36-42-47		
2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		*3	60Pa	dB(A)	35-4	0-43	32-37-42	3.5-39-44	36-41-45	38-43-48		

- 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

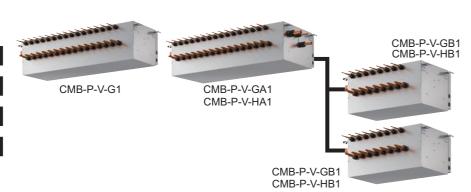
Indoor unit

Indoor unit

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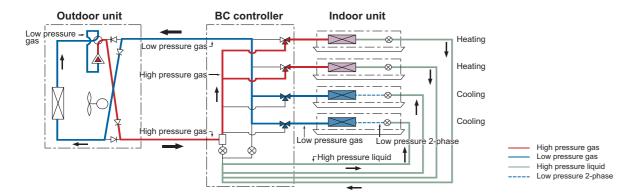
^{*3} The sound pressure level in operation is measured at 1m apart from the front side and the bottom side of the unit in anechoic room. (Noise meter A-scale value) Connect the duct of 1m in length to the air outlet.

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-G		
Number of b	ranch				4	5	6	8	10	13	16		
Power sourc	е				1-phase 220/230/240V 50Hz/60Hz								
			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	0.246/0.279/0.31		
Power input kW		heating	0.030/0.034/0.038					0.097/0.110/0.123	0.119/0.135/0.15				
rower input		KVV	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	0.198/0.222/0.24		
			OUNZ	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	0.096/0.108/0.11		
		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	1.12/1.22/1.3			
Current		A	30112	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	0.55/0.59/0.6		
Current		^	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		
			OUHZ	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	0.44/0.47/0.5		
External finish						Gal	vanized steel pla	te (Lower part dra	ain pan painting N	N1.5)			
Indoor unit c	apacity					Model P80 or smaller							
connectable	to 1 branch				(*Use optional joint pipe combing 2 branches when the total unit capacity exceeds 81.)								
Connectable	Outdoor unit *	7			Refer to the combination chart of BC controller R2/WR2 series								
Height			mm		284								
Width			mm		648 1098								
Depth			mm		432								
					Connectable outdoor unit capacity								
	To outdoor					P200		P250, P300		P350			
Refrigerant	unit	High p	oressur	e pipe	ø15.88	(ø5/8) Brazed	Ø.	19.05 (ø3/4) Braz	ed	ø19.05 (ø3/4) Brazed			
piping		Low p	ressure	pipe	ø19.05 (ø3/4) Brazed ø22.2 (ø7/8) Brazed ø28.58 (ø1-1/8) Brazed								
diameter		Liquid	l nine		Indoor unit Model 50 or smaller:ø6.35 brazed, Over 50:ø9.52 brazed								
	To indoor	Liquid	pipo			(ø12.7 with optional joint pipe used.)							
	unit	Coopi				Indoor ur	nit Model 50 or sn	naller:ø12.7 braze	ed, Over 50:ø15.8	88 brazed			
Gas pipe					(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)								
Accessories					•R	educer							

▶ Specifications

	•												
Model name					CMB-P108V-GA	41	CMB-P1010\	V-GA1	CMB-F	1013V-GA1	CM	1B-P1016V-GA1	CMB-P1016V-HA1
Number of br	ranch				8		10			13		1	6
Power source	е							1-phas	se 220/23	30/240V 50Hz/	/60Hz	_	
			5011	Cooling	0.127/0.144/0.1	61	0.156/0.177/	0.198	0.201/	0.228/0.255		0.246/0.2	279/0.312
			50Hz	heating	0.060/0.068/0.0	76	0.075/0.085/	0.095	0.097/	0.110/0.123		0.119/0.1	135/0.151
Power input		kW		Cooling	0.102/0.115/0.1	\rightarrow	0.126/0.141/	0 156	0.162/	0.182/0.201		0.198/0.2	222/0.246
			60Hz	heating	0.048/0.054/0.0	\rightarrow	0.060/0.068/			0.088/0.097			108/0.119
				-		\rightarrow				/1.00/1.07			22/1.30
			50Hz	Cooling	0.58/0.63/0.68	$\overline{}$	0.71/0.77/0						
Current		A		heating	0.28/0.30/0.32	\rightarrow	0.35/0.37/0			/0.48/0.52			59/0.63
			60Hz	Cooling	0.47/0.50/0.53	3	0.58/0.62/0	0.65	0.74	/0.80/0.84		0.90/0.	97/1.03
			001.12	heating	0.22/0.24/0.25	5	0.28/0.30/0	0.32	0.36	/0.39/0.41		0.44/0.	47/0.50
External finis	h						Galvanize	ed steel p	olate (Lov	ver part drain p	an pa	ainting N1.5)	
Indoor unit ca	apacity								Model P	80 or smaller			
connectable t	to 1 branch				(•\	Jse or	otional ioint pip	e combin	a 2 brand	hes when the	total ı	unit capacity excee	eds 81.)
	Outdoor unit ★											R2/WR2 series	,
Height	outdoor unit A		mm				110101101			289	0.1101	112/11/12 00/100	
Width			mm							1,110			
Depth			mm							520			
										utdoor unit cap			
					P200	F	250,300	P3	50	P400~P50	0	P550~P650	P700~P800/P850~P900*4
	To outdoor unit	High p	oressure	e pipe	ø15.88 (ø5/8) Brazed		ø19.05 (ø3/-	4) Brazeo	t	ø22.2 (ø7/8) Bra	azed	ø28.58 (ø1-1/8) Brazed	ø28.58 (ø1-1/8) Brazed/ ø28.58 (ø1-1/8) Brazed
		Low p	ressure	pipe	ø19.05 (ø3/4) Brazed	ø22.2	2 (ø7/8) Brazed		øź	28.58 (ø1-1/8) I	Braze	ed	ø34.93 (ø1-3/8) Brazed/ ø41.28 (ø1-5/8) Brazed
Refrigerant Liquid pine						Indoor unit Mo					50:ø9.52 brazed	2	
piping	To indoor							-		onal joint pipe ι		,	
diameter	unit	Gas p	ine				Indoor unit Mo	del 50 or	smaller:	12.7 brazed, C	Over 5	50:ø15.88 brazed	
Gas pipe							(ø19.05	with opti	onal joint pipe	used.	.)		
							Total indo	or unit ca	pacity co	nnected to this	Sub	BC controller	
					~P200	P201~P300 P301~P3)1~P350	P351~P400		P401~P450	
	To another BC	Hiah t	oress ga	as pipe	ø15.88 (ø5/8) Bra	azed	ø1	9.05 (ø3	/4) Braze	d	ø22.2 (ø7		/8) Brazed
	controller		ress ga		ø19.05 (ø3/4) Bra	\rightarrow	ø22.2 (ø7/8) I				a28 5	58 (ø1-1/8) Brazed	,
		Liquid		o pipo				Diazeu		ø12.7 (ø1/			ø15.88 (ø5/8) Brazed
Drain pipe		Liquid	hihe		ø9.52 (ø3/8) Brazed					•	2) DI	azeu	Ø10.00 (Ø0/0) Blazeu
		1			43 48				0.1). 32mm		62	00
Net weight		kg			43					55			69
Accessories					•Drain connection pipe (with flexible hose and insulation) •Reducer								
					CMB-P104V-GB1 CMB-P108V-GB1 CMB-P1016								
Model name					CMR-P1	104\/-	GR1		CMR-F	2108\/-GB1		CMB	-P1016V-HR1
Model name	ranch						GB1		CMB-F			CMB	-P1016V-HB1
Number of br						104V- 4	GB1	1 phas		8	/60Hz		-P1016V-HB1 16
			I	Cooling		4		1-phas	se 220/23	8 80/240V 50Hz/	/60Hz		16
Number of br			50Hz	Cooling	0.060/0.	.068/0	.076	1-phas	se 220/23 0.119/	8 80/240V 50Hz/ 0.135/0.151	/60Hz	0.23	16 7/0.269/0.301
Number of br Power source		kW	50Hz	heating	0.060/0. 0.030/0.	.068/0 .034/0	.076	1-phas	se 220/23 0.119/0	8 30/240V 50Hz/ 0.135/0.151 0.068/0.076	/60Hz	0.23	16 7/0.269/0.301 9/0.135/0.151
Number of br		kW	50Hz 60Hz	heating Cooling	0.060/0. 0.030/0. 0.048/0.	.068/0 .034/0 .054/0	.076 .038 .060	1-phas	se 220/23 0.119/0 0.060/0	8 80/240V 50Hz/ 0.135/0.151 0.068/0.076 0.108/0.119	/60Hz	0.237 0.119 0.192	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237
Number of br Power source		kW		heating Cooling heating	0.060/0. 0.030/0.	.068/0 .034/0 .054/0	.076 .038 .060	1-phas	se 220/23 0.119/0 0.060/0	8 30/240V 50Hz/ 0.135/0.151 0.068/0.076	/60Hz	0.237 0.119 0.192 0.096	7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 6/0.108/0.120
Number of br Power source		kW	60Hz	heating Cooling	0.060/0. 0.030/0. 0.048/0.	4 .068/0 .034/0 .054/0	.076 .038 .060	1-phas	0.119/0 0.060/0 0.096/0 0.048/0	8 80/240V 50Hz/ 0.135/0.151 0.068/0.076 0.108/0.119	/60Hz	0.237 0.119 0.192 0.096	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237
Number of br Power source Power input				heating Cooling heating	0.060/0. 0.030/0. 0.048/0. 0.024/0.	4 .068/0 .034/0 .054/0 .027/0	.076 .038 .060 .030 32	1-phas	se 220/23 0.119/0 0.060/0 0.096/0 0.048/0	8 80/240V 50Hz/ 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060	/60Hz	0.237 0.119 0.192 0.096	7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 6/0.108/0.120
Number of br Power source		kW	60Hz 50Hz	heating Cooling heating Cooling	0.060/0. 0.030/0. 0.048/0. 0.024/0.	.068/0 .034/0 .054/0 .027/0 .030/0.	.076 .038 .060 .030 32	1-phas	se 220/23 0.119/0 0.060/0 0.096/0 0.048/0 0.55/0 0.28/0	8 30/240V 50Hz/ 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63	/60Hz	0.233 0.115 0.192 0.096 1.0	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 6/0.108/0.120 8/1.17/1.26
Number of br Power source Power input			60Hz	heating Cooling heating Cooling heating	0.060/0. 0.030/0. 0.048/0. 0.024/0. 0.28/0	.068/0 .034/0 .054/0 .027/0 .30/0. .15/0.	.076 .038 .060 .030 32 16 25	1-phas	se 220/23 0.119/0 0.060/0 0.096/0 0.048/0 0.28/0 0.44/0	8 30/240V 50Hz/ 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 /0.59/0.63 /0.30/0.32 /0.47/0.50	/60Hz	0.23 0.11g 0.19g 0.09g 1.0 0.5	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 6/0.108/0.120 18/1.17/1.26 15/0.59/0.63 18/0.94/0.99
Number of br Power source Power input Current	9		60Hz 50Hz	heating Cooling heating Cooling heating Cooling	0.060/0. 0.030/0. 0.048/0. 0.024/0. 0.28/0 0.14/0 0.22/0	.068/0 .034/0 .054/0 .027/0 .30/0. .15/0.	.076 .038 .060 .030 32 16 25		se 220/23 0.119/0 0.060/0 0.096/0 0.048/0 0.28/0 0.44/0 0.22/0	8 80/240V 50Hz/ 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25		0.23° 0.11° 0.19° 0.09° 1.0 0.5° 0.8	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 6/0.108/0.120 18/1.17/1.26 15/0.59/0.63
Number of br Power source Power input Current External finisi	e h		60Hz 50Hz	heating Cooling heating Cooling heating Cooling	0.060/0. 0.030/0. 0.048/0. 0.024/0. 0.28/0 0.14/0 0.22/0	.068/0 .034/0 .054/0 .027/0 .30/0. .15/0.	.076 .038 .060 .030 32 16 25		se 220/23 0.119// 0.060// 0.096// 0.048// 0.55// 0.28// 0.44// 0.22// olate (Low	8 80/240V 50Hz/ 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 ver part drain p		0.23° 0.11° 0.19° 0.09° 1.0 0.5° 0.8	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 6/0.108/0.120 18/1.17/1.26 15/0.59/0.63 18/0.94/0.99
Number of br Power source Power input Current External finisi Indoor unit ca	h hapacity		60Hz 50Hz	heating Cooling heating Cooling heating Cooling	0.060/0. 0.030/0. 0.048/0. 0.024/0. 0.28/0 0.14/0 0.22/0 0.11/0	4 .068/0 .034/0 .054/0 .027/0 .30/0. 0.15/0. 0.24/0.		ed steel p	0.060/ 0.096/ 0.048/ 0.28/ 0.22/ 0.22/ 0.44/ 0.22/	8 80/240V 50Hz/ 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 ver part drain p	oan pa	0.23 0.119 0.090 1.0 0.5 0.8 0.4	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 6/0.108/0.120 18/1.17/1.26 15/0.59/0.63 18/0.94/0.99 4/0.47/0.50
Number of br Power source Power input Current External finis Indoor unit ca connectable in	h apacity to 1 branch		60Hz 50Hz	heating Cooling heating Cooling heating Cooling	0.060/0. 0.030/0. 0.048/0. 0.024/0. 0.28/0 0.14/0 0.22/0 0.11/0	4 .068/0 .034/0 .054/0 .027/0 .30/0. 0.15/0. 0.24/0.		ed steel p	0.119/k 0.060/k 0.096/k 0.048/k 0.55/k 0.28/k 0.22/k 0.44/k 0.22/k Model P g 2 brand	8 80/240V 50Hz/ 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 wer part drain p	oan pa	0.23 0.115 0.199 0.090 1.0 0.5 0.8 0.4	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 6/0.108/0.120 18/1.17/1.26 15/0.59/0.63 18/0.94/0.99 4/0.47/0.50
Number of br Power source Power input Current External finis Indoor unit caconnectable Connectable	h hapacity		60Hz 50Hz 60Hz	heating Cooling heating Cooling heating Cooling	0.060/0. 0.030/0. 0.048/0. 0.024/0. 0.28/0 0.14/0 0.22/0 0.11/0	4 .068/0 .034/0 .054/0 .027/0 .30/0. 0.15/0. 0.24/0.		ed steel p	0.119/k 0.060/k 0.096/k 0.048/k 0.55/k 0.28/k 0.22/k 0.44/k 0.22/k Model P g 2 brand	8 80/240V 50Hz/ 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 wer part drain p	oan pa	0.23 0.119 0.090 1.0 0.5 0.8 0.4	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 6/0.108/0.120 18/1.17/1.26 15/0.59/0.63 18/0.94/0.99 4/0.47/0.50 eds 81.)
Number of br Power source Power input Current External finis Indoor unit ca connectable Connectable Height	h apacity to 1 branch		60Hz 50Hz	heating Cooling heating Cooling heating Cooling	0.060/0. 0.030/0. 0.048/0. 0.024/0. 0.28/0 0.14/0 0.22/0 0.11/0	4 .068/0 .034/0 .054/0 .027/0 .30/0. 0.15/0. 0.24/0.		ed steel pe combine co	0.119/k 0.060/k 0.096/k 0.048/k 0.55/k 0.28/k 0.22/k 0.44/k 0.22/k Model P g 2 brand	8 80/240V 50Hz/ 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 wer part drain p	oan pa	0.23 0.115 0.199 0.090 1.0 0.5 0.8 0.4	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 6/0.108/0.120 18/1.17/1.26 15/0.59/0.63 18/0.94/0.99 4/0.47/0.50 eds 81.)
Number of br Power source Power input Current External finis Indoor unit caconnectable Connectable	h apacity to 1 branch		60Hz 50Hz 60Hz	heating Cooling heating Cooling heating Cooling	0.060/0. 0.030/0. 0.048/0. 0.024/0. 0.28/0 0.14/0 0.22/0 0.11/0	4 .068/0 .034/0 .054/0 .027/0 .30/0. 0.15/0. 0.24/0.		ed steel p	0.119/k 0.060/k 0.096/k 0.048/k 0.55/k 0.28/k 0.22/k 0.44/k 0.22/k Model P g 2 brand	8 80/240V 50Hz/ 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 wer part drain p	oan pa	0.23 0.115 0.199 0.090 1.0 0.5 0.8 0.4	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 6/0.108/0.120 18/1.17/1.26 15/0.59/0.63 18/0.94/0.99 4/0.47/0.50 eds 81.)
Number of br Power source Power input Current External finis Indoor unit ca connectable Connectable Height	h apacity to 1 branch		60Hz 50Hz 60Hz	heating Cooling heating Cooling heating Cooling	0.060/0. 0.030/0. 0.048/0. 0.024/0. 0.28/0 0.14/0 0.22/0 0.11/0	4 .068/0 .034/0 .054/0 .027/0 .30/0. 0.15/0. 0.24/0.		ed steel pe combine co	0.119/k 0.060/k 0.096/k 0.048/k 0.55/k 0.28/k 0.22/k 0.44/k 0.22/k Model P g 2 brand	8 80/240V 50Hz/ 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 wer part drain p	oan pa	0.23 0.115 0.199 0.090 1.0 0.5 0.8 0.4	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 6/0.108/0.120 18/1.17/1.26 15/0.59/0.63 18/0.94/0.99 4/0.47/0.50 eds 81.)
Number of br Power source Power input Current External finis Inconnectable t Connectable Height Width	h apacity to 1 branch		60Hz 50Hz 60Hz mm mm	heating Cooling heating Cooling heating Cooling	0.060/0. 0.030/0. 0.048/0. 0.024/0. 0.28/0 0.14/0 0.22/0 0.11/0	4 .068/0 .034/0 .054/0 .027/0 .30/0. 0.15/0. 0.24/0.		ed steel pe combine combine 284	se 220/23 0.119/l 0.060/l 0.096/ 0.048/l 0.28/ 0.44/ 0.22/ olate (Low Model P g 2 brandination ch	8 80/240V 50Hz/ 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 wer part drain p	oan pa total u	0.23: 0.119: 0.090: 1.0 0.5: 0.8 0.4 ainting N1.5) unit capacity excees	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 6/0.108/0.120 //8/1.17/1.26 //6/0.59/0.63 //6/0.94/0.99 4/0.47/0.50 eds 81.) 284 1,098
Number of br Power source Power input Current External finis Inconnectable t Connectable Height Width	h apacity to 1 branch		60Hz 50Hz 60Hz mm mm	heating Cooling heating Cooling heating Cooling	0.060/0. 0.030/0. 0.048/0. 0.024/0. 0.28/0 0.14/0 0.22/0 0.11/0	4 .068/0 .034/0 .054/0 .027/0 .30/0. 0.15/0. 0.24/0.		ed steel pe combin he combin 884 848 32 oor unit c	se 220/23 0.119/l 0.060/l 0.096/ 0.048/l 0.28/ 0.28/ 0.244 0.22/ olate (Low Model P g 2 brandination ch	8 30/240V 50Hz/ 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 ver part drain p 80 or smaller shes when the start of BC contr	oan pa total u	0.23 0.119 0.199 0.090 1.0 0.5 0.8 0.4 ainting N1.5) unit capacity excee R2/WR2 series	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 6/0.108/0.120 18/1.17/1.26 15/0.59/0.63 18/0.94/0.99 14/0.47/0.50 eds 81.) 284 1,098 432
Number of br Power source Power input Current External finis Inconnectable t Connectable Height Width	h apacity to 1 branch Outdoor unit *		60Hz 50Hz 60Hz mm mm	heating Cooling heating Cooling heating Cooling	0.060/0. 0.030/0. 0.048/0. 0.024/0. 0.28/0 0.14/0 0.22/0 0.11/0	4 .068/0 .034/0 .054/0 .027/0 .30/0. 0.15/0. 0.24/0.		ed steel pe combinhe combinhe combinhe sales and steel pe combinhe	se 220/23 0.119/0 0.060/0 0.096/0 0.098/0 0.048/0 0.28/0 0.44/0 0.22/0 late (Low Model P g 2 brandination ch	8 80/240V 50Hz/ 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 wer part drain p 80 or smaller ches when the leart of BC contr	aan paat total u	0.23 0.111 0.192 0.090 1.0 0.5 0.8 0.4 ainting N1.5) unit capacity excee R2/WR2 series	16 7/0.269/0.301 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 6/0.108/0.120 18/1.17/1.26 15/0.59/0.63 18/0.94/0.99 14/0.47/0.50 284 1,098 432 0, P201~P450
Number of br Power source Power input Current External finis Inconnectable t Connectable Height Width	h apacity to 1 branch Outdoor unit * To Main BC	A	60Hz 50Hz 60Hz mm mm	heating Cooling heating Cooling heating Cooling heating	0.060/0. 0.030/0. 0.048/0. 0.024/0. 0.28/0 0.14/0 0.22/0 0.11/0 (*L	4 .068/0 .034/0 .054/0 .027/0 .0.330/0 .0.15/0 .0.12/0 .1.12/0		ed steel pe combine combine combine 284 steel st	se 220/23 0.119/l 0.060/l 0.096/l 0.098/l 0.55/l 0.28/l 0.44/l 0.22/l blate (Low Model P g 2 brandination chi	8 10/240V 50Hz/ 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 wer part drain p 80 or smaller thes when the last of BC contributed this \$1000000000000000000000000000000000000	aan paat total u	0.23 0.115 0.192 0.096 1.0 0.5 0.8 0.4 ainting N1.5) unit capacity excer R2/WR2 series	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 6/0.108/0.120 18/1.17/1.26 15/0.59/0.63 18/0.94/0.99 4/0.47/0.50 eds 81.) 284 1,098 432 0, P201~P450 P401~P450
Number of br Power source Power input Current External finisi Indoor unit ca connectable to connectable Height Width Depth	h apacity to 1 branch Outdoor unit *	A High	60Hz 50Hz 60Hz mm mm mm	heating Cooling heating Cooling heating Cooling heating Cooling heating	0.060/0. 0.030/0. 0.048/0. 0.024/0. 0.28/0 0.14/0 0.22/0 0.11/0 (+L	4 .068/0 .034/0 .054/0 .027/0 .0.30/0 .0.15/0 .0.12/0 .1.12/0 .1.12/0		ed steel pe combine the combin	se 220/23 0.119/0 0.060/0 0.096/0 0.098/0 0.048/0 0.28/0 0.44/0 0.22/0 late (Low Model P g 2 brandination ch	8 10/240V 50Hz/ 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 wer part drain p 80 or smaller thes when the last of BC contributed this \$1000000000000000000000000000000000000	an pa total u roller	0.23: 0.119 0.099 1.0 0.5 0.8 0.4 ainting N1.5) unit capacity excet R2/WR2 series BC controller P351~P400 ø22.2 (ø7.	16 7/0.269/0.301 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 6/0.108/0.120 18/1.17/1.26 15/0.59/0.63 18/0.94/0.99 14/0.47/0.50 284 1,098 432 0, P201~P450
Number of br Power source Power input Current External finisi Indoor unit ca connectable to Connectable Height Width Depth Refrigerant	h apacity to 1 branch Outdoor unit * To Main BC	High p	60Hz 50Hz 60Hz mm mm mm oressure	heating Cooling heating Cooling heating Cooling heating Cooling heating	0.060/0. 0.030/0. 0.048/0. 0.024/0. 0.28/0 0.14/0 0.22/0 0.11/0 (+L	4 .068/0 .034/0 .054/0 .027/0 .030/0 .0.15/0 .0.124/0 .1.12/0 .1.12/0		ed steel pe combine the combin	se 220/23 0.119/l 0.060/l 0.096/l 0.098/l 0.55/l 0.28/l 0.44/l 0.22/l blate (Low Model P g 2 brandination chi	8 30/240V 50Hz/ 30/240V 50Hz/ 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.30/0.32 0.47/0.25 ver part drain p 80 or smaller thes when the interest of BC control onnected this \$ 11~P350 d	ean pa total u roller	0.23: 0.119 0.090 1.0 0.5 0.8 0.4 ainting N1.5) unit capacity excer R2/WR2 series BC controller -P200 922.2 (ø7 58 (ø1-1/8) Brazed	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 6/0.108/0.120 8/1.17/1.26 15/0.59/0.63 18/0.94/0.99 4/0.47/0.50 eds 81.) 284 1,098 432 0, P201~P450 P401~P450 //8) Brazed
Number of br Power source Power input Current External finisi Indoor unit ca connectable to Connectable Height Width Depth Refrigerant piping	h apacity to 1 branch Outdoor unit * To Main BC	A High	60Hz 50Hz 60Hz mm mm mm oressure	heating Cooling heating Cooling heating Cooling heating Cooling heating	0.060/0. 0.030/0. 0.048/0. 0.024/0. 0.28/0 0.14/0 0.22/0 0.11/0 (+L	4 .068/0 .034/0 .054/0 .027/0 .030/0 .0.15/0 .0.124/0 .1.12/0 .1.12/0		ed steel per combinate the com	se 220/23 0.119// 0.060// 0.096// 0.048// 0.28, 0.44, 0.22, blate (Low Model P g 2 brandination chi capacity c 0.01~P35(P35(/4) Braze	8 30/240V 50Hz/ 30/240V 50Hz/ 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 wer part drain p 80 or smaller shes when the interpretation of BC control 0.11~P350 d	ean pa total u roller Sub B	0.23: 0.119 0.199 0.090 1.0 0.5 0.8 0.4 ainting N1.5) unit capacity excee R2/WR2 series 8C controller -P200 P351~P400 022.2 (07.58 (01-1/8) Brazed	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 6/0.108/0.120 18/1.17/1.26 15/0.59/0.63 18/0.94/0.99 4/0.47/0.50 eds 81.) 284 1,098 432 0, P201~P450 P401~P450
Number of br Power source Power input Current External finisi Indoor unit ca connectable to Connectable Height Width Depth Refrigerant	h apacity to 1 branch Outdoor unit * To Main BC	High p	60Hz 50Hz 60Hz mm mm mm mm	heating Cooling heating Cooling heating Cooling heating Cooling heating	0.060/0. 0.030/0. 0.048/0. 0.024/0. 0.28/0 0.14/0 0.22/0 0.11/0 (+L	4 .068/0 .034/0 .054/0 .027/0 .030/0 .0.15/0 .0.124/0 .1.12/0 .1.12/0		ed steel per combinate the com	se 220/23 0.119// 0.060// 0.096// 0.048// 0.28, 0.44, 0.22, blate (Low Model P g 2 brandination chi capacity c 0.01~P35(P35(/4) Braze	8 30/240V 50Hz/ 30/240V 50Hz/ 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 wer part drain p 80 or smaller shes when the interpretation of BC control 0.11~P350 d	ean pa total u roller Sub B	0.23: 0.119 0.090 1.0 0.5 0.8 0.4 ainting N1.5) unit capacity excer R2/WR2 series BC controller -P200 922.2 (ø7 58 (ø1-1/8) Brazed	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 6/0.108/0.120 8/1.17/1.26 15/0.59/0.63 18/0.94/0.99 4/0.47/0.50 eds 81.) 284 1,098 432 0, P201~P450 P401~P450 //8) Brazed
Number of br Power source Power input Current External finisi Indoor unit ca connectable to Connectable Height Width Depth Refrigerant piping	h apacity to 1 branch Outdoor unit * To Main BC	High p	60Hz 50Hz 60Hz mm mm mm mm	heating Cooling heating Cooling heating Cooling heating Cooling heating	0.060/0. 0.030/0. 0.048/0. 0.024/0. 0.28/0 0.14/0 0.22/0 0.11/0 (+L	4 .068/0 .034/0 .054/0 .027/0 .030/0 .0.15/0 .0.124/0 .1.12/0 .1.12/0		ed steel pe combin he combin he combin 84 448 32 oor unit c P200, P2 00 9.05 (ø3.8 Brazed odel 50 or odel 50 o	se 220/23 0.119/w 0.060/w 0.096/w 0.096/w 0.048/w 0.22/w 0.22/w 0.22 blate (Low Model P g 2 brandination ch	8 30/240V 50Hz/ 30/240V 50Hz/ 0.135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 wer part drain p 80 or smaller shes when the interpretation of BC control 0.11~P350 d	ø28.8.9 Bracover	0.23: 0.119 0.199 0.090 1.0 0.5 0.8 0.4 ainting N1.5) unit capacity excee R2/WR2 series 8C controller	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 6/0.108/0.120 8/1.17/1.26 15/0.59/0.63 18/0.94/0.99 4/0.47/0.50 eds 81.) 284 1,098 432 0, P201~P450 P401~P450 //8) Brazed
Number of br Power source Power input Current External finisi Indoor unit ca connectable to Connectable Height Width Depth Refrigerant piping	h apacity to 1 branch Outdoor unit *	A High p Low p Liquid Liquid	60Hz 50Hz 60Hz 60Hz 60Hz 60Hz 60Hz 60Hz 60Hz 6	heating Cooling heating Cooling heating Cooling heating Cooling heating	0.060/0. 0.030/0. 0.048/0. 0.024/0. 0.28/0 0.14/0 0.22/0 0.11/0 (+L	4 .068/0 .034/0 .027/0 .027/0 .0.15/0 .0.15/0 .0.12/0 Jse op		ed steel pe combine co	se 220/23 0.119/l 0.060/l 0.096/l 0.098/l 0.048/l 0.22/l 0.122/l 0.124 (Low Model P g 2 brandination ch	8 80/240V 50Hz/ 50/135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 ver part drain p 80 or smaller ches when the lart of BC contribution of BC cont	ø28.8.9 Bracover	0.23: 0.119 0.199 0.090 1.0 0.5 0.8 0.4 ainting N1.5) unit capacity excee R2/WR2 series 8C controller	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 6/0.108/0.120 8/1.17/1.26 15/0.59/0.63 18/0.94/0.99 4/0.47/0.50 eds 81.) 284 1,098 432 0, P201~P450 P401~P450 //8) Brazed
Number of br Power source Power input Current External finisi Indoor unit ca connectable to Connectable Height Width Depth Refrigerant piping	h apacity to 1 branch Outdoor unit * To Main BC controller	High p	60Hz 50Hz 60Hz 60Hz 60Hz 60Hz 60Hz 60Hz 60Hz 6	heating Cooling heating Cooling heating Cooling heating Cooling heating	0.060/0. 0.030/0. 0.048/0. 0.024/0. 0.28/0 0.14/0 0.22/0 0.11/0 (+L	4 .068/0 .034/0 .027/0 .027/0 .0.15/0 .0.15/0 .0.12/0 Jse op		ed steel pe combinhe combines as a consumer of the combines and the combines are consumer of the combines and consumer of the combines are consumer of the combines are combines are combines and combines are combin	se 220/23 0.119/0 0.060/0 0.096/0 0.096/0 0.048/0 0.55/0 0.28/0 0.44/0 0.22/0 late (Low Model P g 2 brandination childre	8 80/240V 50Hz/ 50/135/0.151 0.068/0.076 0.108/0.119 0.054/0.060 0.59/0.63 0.30/0.32 0.47/0.50 0.24/0.25 ver part drain p 80 or smaller ches when the lart of BC contribution of BC cont	ø28.5.2) Bra Over used.	0.23: 0.119: 0.090: 0.090: 0.05: 0.8: 0.4 ainting N1.5) unit capacity excee R2/WR2 series Controller -P200 P351~P400 Ø22.2 (Ø7 58 (Ø1-1/8) Brazed azed 50:ø9.52 brazed) 50:ø15.88 brazed	16 7/0.269/0.301 9/0.135/0.151 2/0.216/0.237 6/0.108/0.120 8/1.17/1.26 15/0.59/0.63 18/0.94/0.99 4/0.47/0.50 eds 81.) 284 1,098 432 0, P201~P450 P401~P450 //8) Brazed
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★ Combination chart of BC Controller for R2 series

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

★ Combination chart of BC Controller for WR2 series

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

- 1. The equipment is for R410A refrigerant.
- 2. Install this product is a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors.(For use in quiet environments with low background noise, position the BC CONTROLLER at least 5 m away from any indoor units.)
- 3. Indoor units P100, P125, P140 can be connected to 1 branch. (In this case, cooling capacity

5. For sub BC controller CMB-P-B-GB1 the connectable indoor unit capacities may sum to equal that of a P350 unit or less. However, if two sub controllers are used the TOTAL sum of

decrease a little.)
4. When using an outdoor unit – 28HP (P700) or more, use CMB-P1016V-HA1

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 onnectable units connected to BOTH sub controllers must also not exceed that a P450 uni

Indoor unit

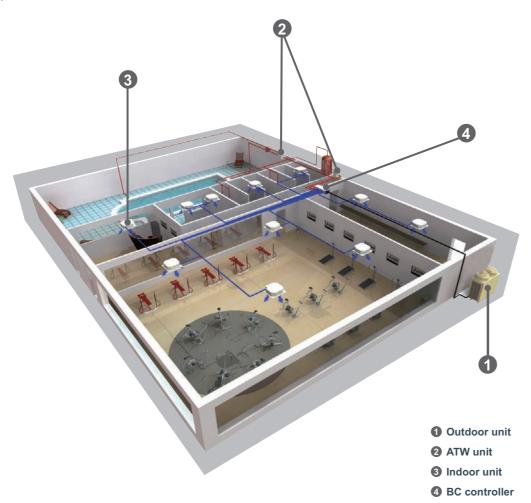
Indoor unit

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

1 ATW UNIT

BOOSTER UNIT

Benefiting from the heat recovery operation of the CITY MULTI R2 system, Booster unit converts energy from the air to higher temperatures suitable for supplying hot water and PWFY-P100VM-E-BU results in virtually no energy waste.



Connectable to

CITY MULTI R2/WR2 series REPLACE MULTI R2 series

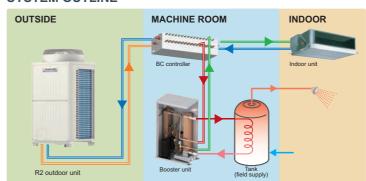
Applications

best for sanitary water, shower, etc.

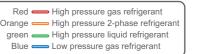
Operation

up to 70°C

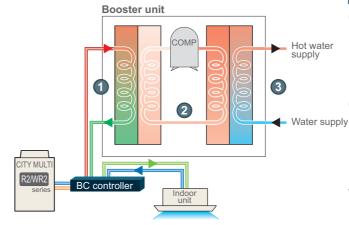
SYSTEM OUTLINE



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.



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.

Indoor unit

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.

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.

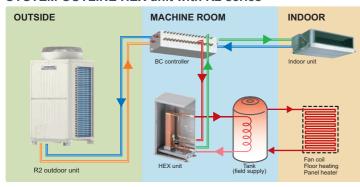
Operation

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

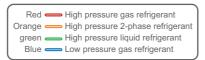


PWFY-P100VM-E1-AU PWFY-P200VM-E1-AU

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.



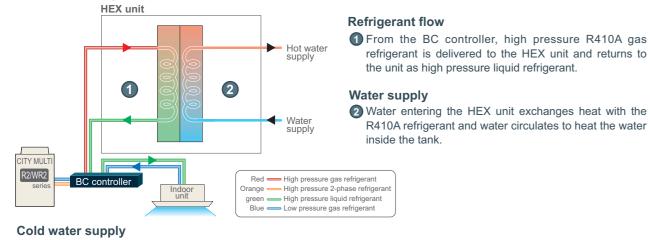
- *The image is a system example in case of heating mode.
- *The necessity of the tank depends on the system configuration.

What makes HEX unit unique with R2/WR2 series?

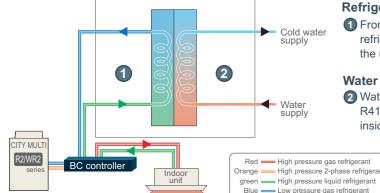
Hot water supply

Indoor unit

Page 119



HEX unit

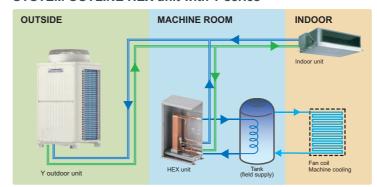


Refrigerant flow

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.

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

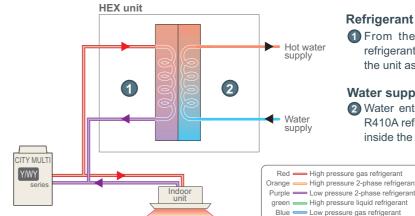


HEX unit is connected to Y outdoor unit with refrigerant pipes, and to the water tank with water pipes. HEX unit is not equipped with a compressor.

Red — High pressure gas refrigerant Prange — 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



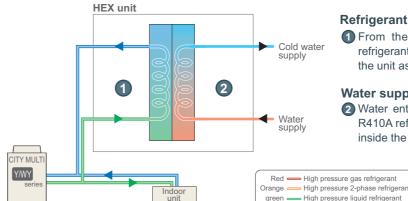
Refrigerant flow

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.

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

Blue - Low pressure gas refrigerant

2BC CONTROLLER

To connect R2/WR2 series outdoor units and ATW indoor units, a BC controller or WCB (Water system Connection Box), which is a simple version of a BC controller can be used.

		BC controller	WCB			
Connec	table ATW system	Booster/HEX				
Outdoor unit	Connectable series	R2*/	WR2			
Outdoor unit	Connectable capacity	P200-P900	P200-P350			
ATW/	Connectable qty	1-50	1-30			
Indoor unit	Connection method	With BC's port	By branch pipe			
macor and	Operation mode	Cooling AND heating	Cooling OR heating			
Pr	oduct image		,,,			

^{*}WCB cannot be connected to XL module outdoor unit.

CASE STUDY

Application: Restaurant Country: Italy







Unit information

Outdoor unit: Air-cooled R2 series ×5, BC controller ×5

ATW unit : Booster unit ×3 Indoor unit : Floor mounted conealed type ×18

Control : AG-150A ×1, ATW controller ×3, ME remote controller ×27, Power supply unit ×1

Other : OA processing unit ×9

Background

The restaurant required air conditioning, fresh air, and sanitary water. As a perfect solution that can provide all three, the consultant proposed the Air to Water system+CITY MULTI+OA processing unit.

With the combination of Mitsubishi Electric's product lineup, the system can provide hot water without a boiler and air conditioning with a high COP. Whats more, with the OA processing unit in a system, suitable ventilation with top quality air and energy saving environment is created.

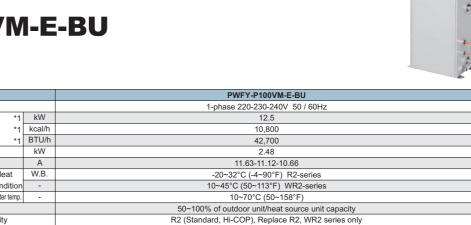
ATW UNIT Booster Unit

PWFY-P VM-E-BU

▶ Specifications

Power source

Heating capacity



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

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 2.15m³/h

Circulating water Temp. : 20°C (68°F)

Pipe length : 7.5 m (24-9/16 ft)

switch, and other items shall be referred to the Installation Manual.

Inlet water Temp 65°C Water flow rate 2.15m³/h

*2 Do not use refrigerant other than the type indicated in the manuals provided with the unit and on the nameplate.

- Doing so may cause the unit or pipes to burst, or result in explosion or fire during use, during repair, or at the time of disposal of the unit.
- It may also be in violation of applicable laws.
- MITSUBISHI ELECTRIC CORPORATION cannot be held responsible for malfunctions or accidents resulting from the use of the wrong type of refrigerant
- * Due to continuing improvement, the above specifications may be subject to change without notice.
- * The unit is not designed for outside installations.
- * Please don't use the steel material for the water piping material.
- * Please always make water circulate or add the brine to the circulation water when the ambient temperature becomes 0°C (32°F) or less.
- * Please always make water circulate or pull out the circulation water completely when not using it.
- * Please 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.

Indoor unit

Indoor unit

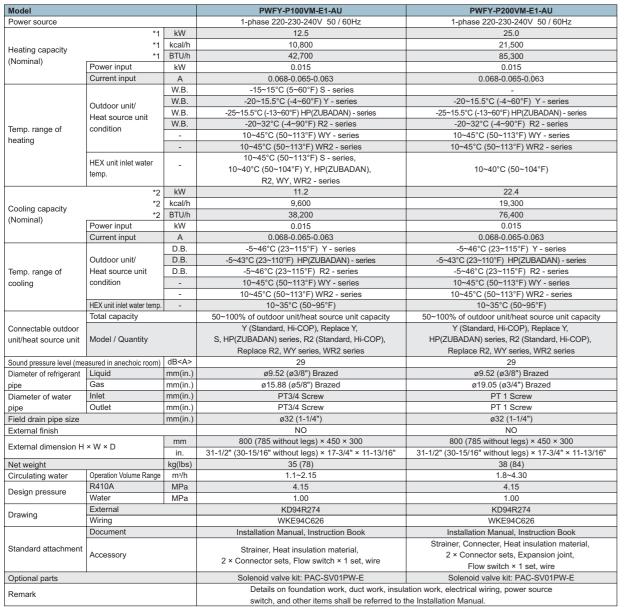
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^{*} Please do not use it as a drinking water.

ATW UNIT HEX Unit

PWFY-P VM-E1-AU

▶ Specifications



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 2.15m³/h(P100), 4.30m³/h(P200)

*2 Nominal cooling conditions <Y/HP(ZUBADAN)/R2-series> Outdoor Temp. : 35°CB (95°FDB) Pipe length: 7.5 m (24-9/16 ft) Level difference : 0m (0ft)

<WY/WR2-series> Circulating water Temp. : 20°C (68°F) Pipe length: 7.5 m (24-9/16 ft) Level difference : 0m (0ft)

Inlet water Temp 30°C Water flow rate 2.15m³/h(P100), 4.30m³/h(P200)

<WY/WR2-series>

Circulating water Temp. : 30°C (86°F) Pipe length : 7.5 m (24-9/16 ft) Level difference : 0m (0ft) Inlet water Temp 23°C

Water flow rate 1.93m3/h(P100), 3.86m3/h(P200)

Inlet water Temp 23°C Water flow rate 1.93m³/h(P100), 3.86m³/h(P200)

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

* The unit is not designed for outside installations.
* Please don't use the steel material for the water piping material.

* Please 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.

Indoor unit

Controller **Remote Controller PAR-W21MAA**



▶ Specifications

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

Optional Parts Solenoid Valve kit

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

PAC-SV01PW-F

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

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

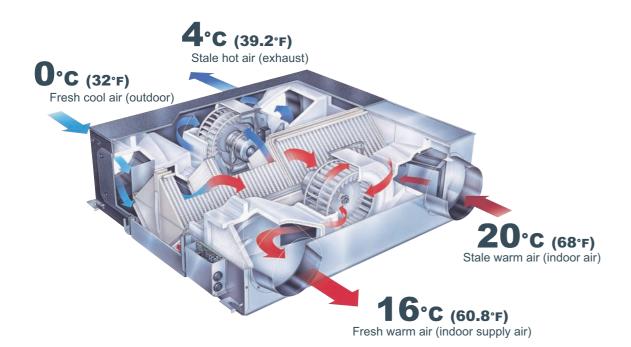


RX5 SERIES



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-25RX**5 [250m³/h Single phase 220-240V 50Hz] **LGH-35RX**5 [350m³/h Single phase 220-240V 50Hz] **LGH-50RX**5 [500m³/h Single phase 220-240V 50Hz] **LGH-65RX**5 [650m³/h Single phase 220-240V 50Hz]

LGH-80RX5 [800m³/h Single phase 220-240V 50Hz] **LGH-100RX**5 [1000m³/h Single phase 220-240V 50Hz] **LGH-150RX**5 [1500m³/h Single phase 220-240V 50Hz] **LGH-200RX**5 [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.

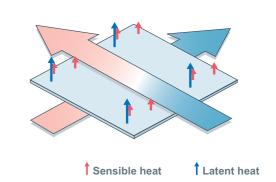
LOSSNAY Technology

- 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

EA Stale air exhaust SA Fresh air exhaust Outdoors : Indoors (dirty indoor air) Spacer plate Stale air induction Fresh air induction (dirty heating/cooling air)

B. Total Energy transfer



Hyper Eco Core

Hyper Element

Humidity does not

penetrate easily

Better energy conservation by improved total heat exchange efficiency.



RA

Hyper Eco Element

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.



Indoor unit

Indoor unit



Why LOSSNAY is necessary.

• Without ventilation...

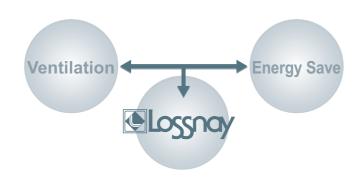
Lack of Ventilation makes people sick by dirty indoor air including CO₂, Dust, Bacteria.

• 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 \rightarrow SA and RA \rightarrow EA)

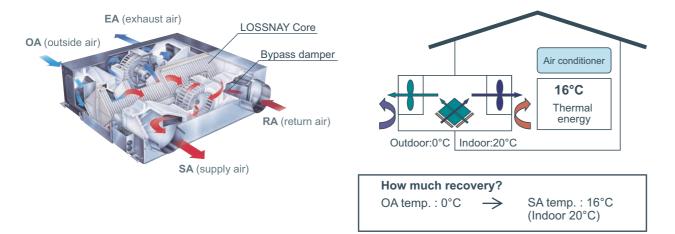
Energy recovery by LOSSNAY Core

Free cooling by bypass damper

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

UNIT STRUCTURE

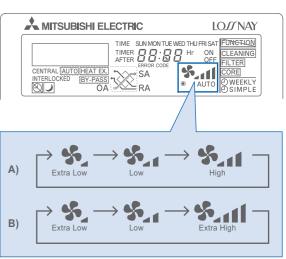
Energy Recovery Image



Extra Low Mode

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

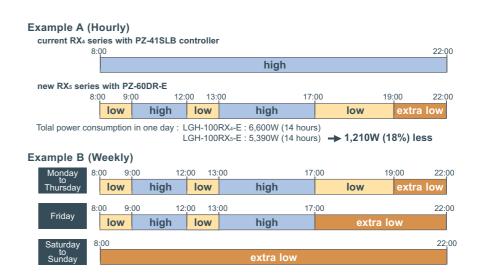
In addition to the conventional Extra High, High, and Low modes, an Extra Low mode is added to provide a more dynamic range of air volume settings and versatility in a variety of installation environments, yielding much better energy conservation. Using a simplified timer function, it switches to Extra 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.



Indoor unit

Indoor unit

Page 128



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.

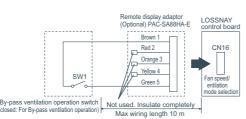
Automatic ventilation setting

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



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.

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.

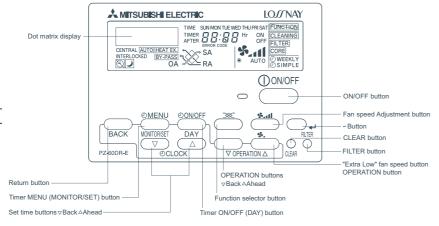
The appearance of the remote controller conforms to Mitsubishi air conditioner interface design standards.

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.

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Model line up

LGH-15~100RX5-E

■ Specification

LGH-15RX5-E

Model					LGH-1	5RX5-E			
Frequency / Power source		50Hz / Single phase 220-240V							
Ventilation mode			LOSSNAY	ventilation			By-pass ve	entilation	
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low
Current (A)		0.44-0.46	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
(m³/h)		150	150	110	70	150	150	110	70
Air volume	(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
External static pressure	(Pa)	100-105	65-70	35-40	14	100-105	65-70	35-40	14
Temperature exchange efficiency (%)	82.0	82.0	84.0	85.5	_	_	_	_
Enthalpy exchange efficiency (%)	Heating	75.0	75.0	77.5	81.0	_	_	_	_
Entrialpy exchange enticlency (%)	Cooling	73.0	73.0	76.5	81.0	_	_	_	_
Noise (dB) (Measured at 1.5m under the center of panel in an anechoeic 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)

I CH-25PYs-E

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

2011 001010 2										
Model					LGH-3	5RX₅-E				
Frequency / Power source					50Hz / Single p	hase 220-240V				
Ventilation mode			LOSSNAY	ventilation			By-pass ve	entilation		
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low	
Current (A)		0.92-0.92	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	
Fotomol static massaum	(mmH ₂ O)	15.8-16.3	7.6-8.2	2.5-3.1	0.9	15.8-16.3	7.6-8.2	2.5-3.1	0.9	
External static pressure	(Pa)	155-160	75-80	25-30	9	155-160	75-80	25-30	9	
Temperature exchange efficiency	(%)	80.0	80.0	85.0	88.0	_	_	_	_	
Enthalpy exchange efficiency (%)	Heating	71.5	71.5	76.5	81.5	_	_	_	_	
Entrialpy exchange efficiency (%)	Cooling	71.0	71.0	75.5	81.0	_	_	_	_	
Noise (dB) (Measured at 1.5m under the center of panel in an anechoeic chamber)		32-32	28.5-29.5	21.5-23	18	32.5-32.5	29.5-30.5	21.5-24	18	
Weight (kg)					2	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)

Indoor unit

Indoor unit

 $^{^{\}star}$ When the outdoor air tempereture drops lower than 8 $^{\circ}\text{C}$ 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



LGH-15~100RX5-E

LGH-50RX5-E

Model		LGH-50RXs-E									
Frequency / Power source		50Hz / Single phase 220-240V									
Ventilation mode			LOSSNAY	ventilation			By-pass ve	entilation			
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low		
Current (A)		1.2-1.25	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		
Air volume	(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		
External static pressure	(Pa)	150-155	65-90	40-60	10	150-155	65-90	40-60	10		
Temperature exchange efficiency (%)	78.0	78.0	81.0	86.0	_	_	_	_		
Enthalpy exchange efficiency (%)	Heating	69.0	69.0	71.0	78.0	_	_	_	_		
Entrialpy exchange eniciency (%)	Cooling	66.5	66.5	68.0	77.0	_	_	_	_		
Noise (dB) (Measured at 1.5m under the center of panel in an anechoeic chamber)		33-34	30.5-32	26.5-28	19	34-35	31-32.5	27-29	19		
Weight (kg)					3	32					
Starting current					Under 3.	.0 A Less					

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

LGH-65RX5-E

Model					LGH-6	5RX₅-E					
Frequency / Power source		50Hz / Single phase 220-240V									
Ventilation mode			LOSSNAY	ventilation			By-pass ve	entilation			
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low		
Current (A)		1.7-1.8	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		
External static pressure	(Pa)	110-120	60-80	40-50	8	110-120	60-80	40-50	8		
Temperature exchange efficiency (%)	77.0	77.0	80.0	86.0	_	_	_	_		
Enthalpy exchange efficiency (%)	Heating	68.5	68.5	70.5	78.0	_	_	_	_		
Entitially exchange entitlency (%)	Cooling	66.0	66.0	68.5	77.0	_	_	_	_		
Noise (dB) (Measured at 1.5m under the center of panel in an anechoeic 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)					4	10					
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-80RX ₅ -E										
Frequency / Power source		50Hz / Single phase 220-240V										
Ventilation mode		LOSSNAY	ventilation			By-pass ve	entilation					
Fan speed	Fan speed		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			
External static pressure	(Pa)	145-150	105-120	80-95	20	145-150	105-120	80-95	20			
Temperature exchange efficiency (%)	79.0	79.0	80.5	87.5	_	_	_	_			
Enthalpy exchange efficiency (%)	Heating	71.0	71.0	72.5	79.5	_	_	_	_			
Entitially exchange efficiency (%)	Cooling	70.0	70.0	71.5	79.5	_	_	_	_			
Noise (dB) (Measured at 1.5m under the center of panel in an anechoeic chamber)		33.5-34.5	32-33	30-31	22	34.5-35.5	33-34	31-32	22			
Weight (kg)					5	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-150/200RX5-E

LGH-100RX5-E

Model					LGH-1	00RX5-E					
Frequency / Power source		50Hz / Single phase 220-240V									
Ventilation mode			LOSSNAY	ventilation			By-pass ve	entilation			
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low		
Current (A)		2.3-2.4	2.1-2.1	1.7-1.7	0.9-0.9	2.3-2.4	2.1-2.1	1.7-1.7	0.9-0.9		
Power consumption (W)		500-535	445-475	350-380	175-200	510-550	460-485	365-395	175-200		
Air volume	(m³/h)	1000	1000	755	415	1000	1000	755	415		
	(L/s)	278	278	210	115	278	278	210	115		
F. 1.0	(mmH ₂ O)	16.3-17.3	10.2-11.2	5.6-6.1	1.8	16.3-17.3	10.2-11.2	5.6-6.1	1.8		
External static pressure	(Pa)	160-170	100-110	55-60	18	160-170	100-110	55-60	18		
Temperature exchange efficiency (%)	80.0	80.0	83.0	87.0	_	_	_	_		
Enthalpy exchange efficiency (%)	Heating	72.5	72.5	74.0	80.0	_	_	_	_		
Enthalpy exchange efficiency (%)	Cooling	71.0	71.0	73.0	79.0	_	_	_	_		
Noise (dB) (Measured at 1.5m under the center of panel in an anechoeic chamber)		36-37	34-35	31-32.5	21-22	37-38	35-36	32-33	21-22		
Weight (kg)					Ę	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
External static pressure	(Pa)	160-175	130-135	95-100	160-175	130-135	95-100
Temperature exchange efficiency	(%)	80.0	80.0	81.0	_	_	_
Enthalpy exchange efficiency (%)	Heating	72.0	72.0	72.5	_	_	_
Entrialpy exchange efficiency (%)	Cooling	70.5	70.5	71.5	_	_	_
Noise (dB) (Measured at 1.5m under the center of panel in an anechoeic 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

Extra High 4.8-4.8 1035-1100	LOSSNAY ventilation High 4.2-4.2	50Hz / Single Low 3.4-3.4	phase 220-240V Extra High	By-pass ventilation High				
4.8-4.8	High 4.2-4.2		Extra High	7.				
4.8-4.8	4.2-4.2		Extra High	High	Low 3.4-3.4 720-785 1580 439 6.1-6.6 60-65			
		2424		riigii	Low			
1035-1100		3.4-3.4	4.8-4.8	4.2-4.2	3.4-3.4			
	910-980	715-785	1040-1110	915-980	720-785			
2000	2000	1580	2000	2000	1580			
556	556	439	556	556	439			
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			
160-165	100-105	60-65	160-165	100-105	60-65			
80.0	80.0	83.0	_	_	_			
ng 72.5	72.5	73.5	_	_	_			
ng 71.0	71.0	72.0	_	_	_			
	37-38	32.5-34	40.5-41	38-39	33.5-35			
			118					
		Under 1	1.9A Less					
r	556 16.3-16.8 160-165 80.0 19 72.5 19 71.0 ter 39.5-40	556 556 50) 16.3-16.8 10.2-10.7 160-165 100-105 80.0 80.0 19 72.5 72.5 19 71.0 71.0 10 37-38	556 556 439 16.3-16.8 10.2-10.7 6.1-6.6 160-165 100-105 60-65 80.0 80.0 83.0 72.5 72.5 73.5 71.0 71.0 72.0 101 39.5-40 37-38 32.5-34	556 556 439 556 60) 16.3-16.8 10.2-10.7 6.1-6.6 16.3-16.8 160-165 100-105 60-65 160-165 80.0 80.0 83.0 — 19 72.5 72.5 73.5 — 19 71.0 71.0 72.0 — 10 39.5-40 37.38 32.5-34 40.5-41	556 556 439 556 556 556 556 10.2-10.7 6.1-6.6 16.3-16.8 10.2-10.7 160-165 100-105 60-65 160-165 100-105 80.0 80.0 83.0 — — — — — — — — — — — — — — — — — —			

^{*}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)

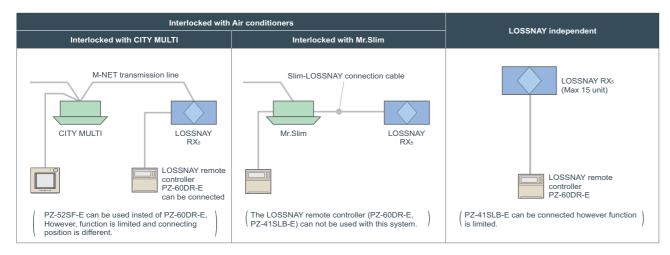
Indoor unit

Indoor unit

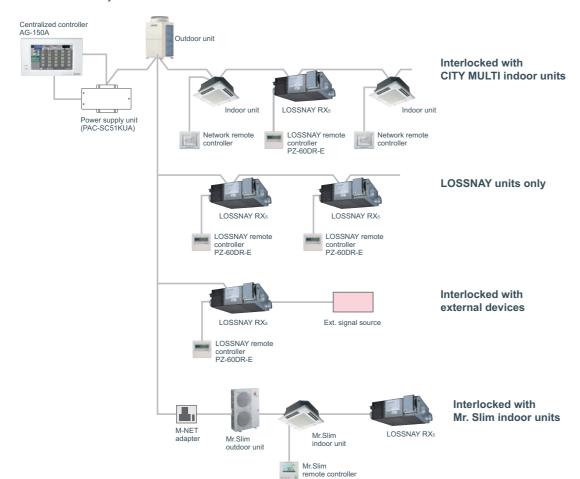
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Control

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



■ Centralized Controller System





VL-100U-E

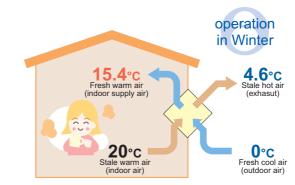


Heat Recovery Ventilators for Residential Use

Time Spent in Comfort with a Breath of Fresh Air



Total-Heat-Exchange Concept



•Heat-exchange calculating equation

 $\begin{array}{ll} \mbox{Indoor supply-air} & = \mbox{Outdoor} \\ \mbox{temperature (°C)} + \left\{ \begin{array}{ll} \mbox{Indoor} \\ \mbox{temperature (°C)} - \mbox{Outdoor} \\ \end{array} \right\} x \begin{array}{ll} \mbox{tempe exchange} \\ \mbox{efficiency (%6)} \end{array}$ Calculation example : 15.4°C = 0°C + (20°C - 0°C) x 77% (Low notch)

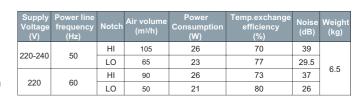
operation in Summer 24.2°C Fresh cool air (indoor supply air) 31.8°C Stale cool air **21**℃ 35°C Fresh hot air (indoor air) (outdoor air)

•Heat-exchange calculating equation

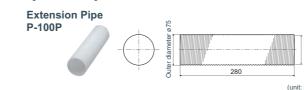
$$\label{eq:local_local_local_local_local_local} \begin{split} & \text{Indoor supply-air} & = \text{Outdoor} \\ & \text{temperature (°C)} - \left\{ \begin{array}{l} \text{Outdoor} \\ \text{temperature (°C)} - \\ \end{array} \right\} \\ & \text{x temp exchange efficiency (%)} \end{split} \\ & \text{x temperature (°C)} \\ & \text{x temperature ($$
Calculation example : 24.2°C = 35°C - (35°C - 21°C) x 77% (Low notch)

Specification

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



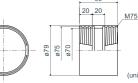
Optional parts



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

Extension Pipe Coupling P-100PJ





Screw-in method

Indoor unit

Indoor unit

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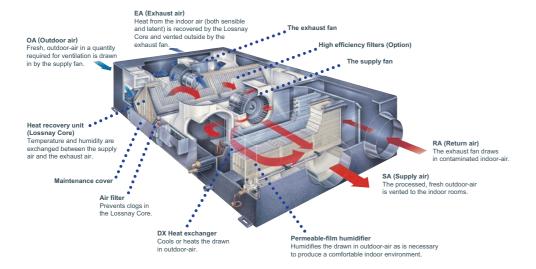
OA Processing Units

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.



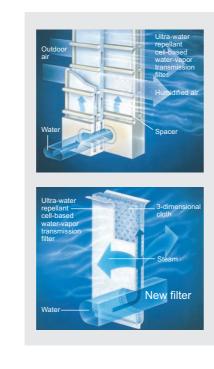
New Permeable Film Humidifier (RDH3 model)

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.



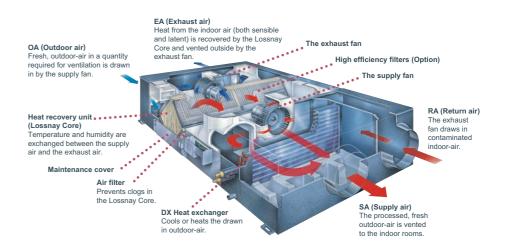
RD3 Series

A Total Air Conditioning Package Manifesting Remarkable Power

Lossnay Ventilation and Air Conditioning

- 1. When the load is light ⇒ Main air conditioning
- 2. When the load is heavy ⇒ 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.

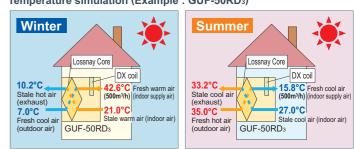


The Air Conditioning Function

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. Wha'ts more, the air temperature in any room can be perfectly adjusted to the desired

Temperature simulation (Example : GUF-50RD₃)



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

Indoor unit

Indoor unit

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Specification

Model			GUF-50	RDH3 *3	GUF-10	0RDH3 *3	GUF-	50RD3	GUF-1	100RD3	
Power source					1-phase 2	20-240V 50H	lz. 1-phase :	220V 60Hz			
Cooling capacity	,	1 kW	5.46	<1.83>	11.17	<3.85>	5.46	<1.83>	11.17	<3.85>	
Figure in < > is the	ne recovery ,	1 kcal / h	4,700	<1,600>	9.600	<3.300>	4.700	<1,600>	9,600	<3,300>	
capacity by LOSS		1 BTU/h	18.600	<6.200>	38.100	<13.100>	18.600	<6.200>	38,100	<13,100>	
	Power input	kW	235-	-,	,	-505	- ,	5-265	-	-505	
	Current input	Α	1.1	15		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	ne recovery '	2 kcal / h	5.300	<1.700>	10.800	<3.600>	5.300	<1.700>	10.800	<3.600>	
capacity by LOSSNAY core. *2			21.100	<6.900>	42.700	<14,300>	21.100	<6.900>	42.700	<14,300>	
	Power input	kW	235-	265	480	480-505		235-265		-505	
	Current input	Α	1.15		2.20		1.15		2.20		
Capacity equivale			P32		P63		P32		P63		
Humidifying capa		kg / h	2.7		5.4		-		-		
3 1 7	•	lbs / h	6.	0	1:	2.0	-		-		
	Humidifier			Permeable fi	lm humidifie				-		
External finish						nized, with gr	ev insulation	n sheet			
External dimension	on H x W x D	mm	317 x 1,01	6 x 1.288		31 x 1,580	-	16 x 1,288	398 x 1.2	31 x 1,580	
	12-1/2 x 4			8-1/2 x 62-1/4		40 x 50-3/4	-	8-1/2 x 62-1/4			
Net weight		kg (lbs)	57 (126)	98 ((217)	54 ((120)		(203)	
Heat	LOSSNAY core		,		· '	ow structure,		,		,	
exchanger	Refrigerant coil				,	in (Aluminum			prostor		
FAN	Type x Quantity					Centrifugal fai		,			
						Centrifugal fai		*			
	External	Pa	125		135		140		140		
	static press.	mmH₂O	12	.7	1;	3.8	14.3		14.3		
	Motor type		Tot	ally enclose	d capacitor p	permanent sp	lit-phase ind	luction motor	, 4 poles, 2u	nits	
	Motor output	kW	-			-		-		-	
	Driving mechanism	n				Direct-drive	en by motor				
	Airflow rate	m³ / h	50	00	1,0	000	5	00	1,0	000	
	(High value)	L/s	13	39	1	39	1	39	1	39	
		cfm	29	94	5	89	2	94	5	89	
Sound pressure I	, , ,	dB <a>	33.5-	34.5	38	-39	33.5	5-34.5	38	-39	
Insulation materia	, , , , , , ,					Polyeste	er sheet				
Air filter	Supplying air		Non-woven fa	ahrics filter (Gr	avitational met	hod 82%) & Opt		h efficiency filte	r (Colorimetric	method 65%)	
7 til lilloi	Exhausting air		14011 WOVOII IS			abrics filter (C				motriou 0070)	
Protection device	U				.511 11040111	Fu			'1		
Refrigerant contro						LE					
Diameter of	Liquid	mm (in.)	ø6.35 (ø1	I/4) Flare	ø9.52 (ø	3/8) Flare	=V ø6.35 (ø1/4) Flare		ø9.52 (ø	3/8) Flare	
refrigerant pipe	Gas	mm (in.)	ø12.7 (ø1	,	,	5/8) Flare	,	1/2) Flare	ø15.88 (ø5/8) Flare		
Diameter of drain		mm (in.)	(D I	, , , , , , , ,	5.00 (x	VP					
Dia notor or drain	hiho	11111 (111.)				VI	20				

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.

Indoor unit

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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.

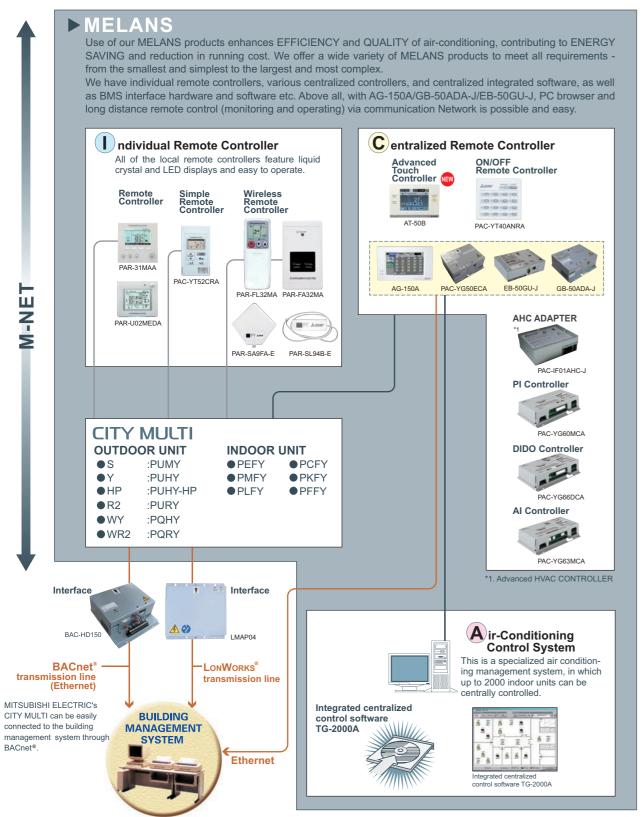
The simpler, the better

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 AG-150A 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



Remote Controller

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

				•											
	L	ocal remo	te controll	er *10				,	Syste	m cor	itrolle	er			*10
Model	PAR-31MAA			PAR-FL32MA	PAC-	AT-50B	AG-	150A		50A +	FR-5	i0GU-J	GB-50	DADA-J	TG-2000A
Controllable Groups / Indoors			170-11020101		YT40ANRA			/ 50	_	350ECA / 150		/ 50		/ 50	
(Group / Indoor)	1 / 16	1 / 16	1 / 16	1 / 16	16 / 50	50 / 50		Browser*4				J Browser*4			2000 / 200
■Operating							A0-130A	DIOWSGI .	A0-130A	DIOWS61 -	LD-0000-	o browser .	OD-OUNDAY	DIOWS61 ·	
ON / OFF	0	1 0	l 0	1 0	0	0				 	•	□			□
Mode (cool / heat / dry / fan)	0	0	0	0	N	0					N		N		© I
Temperature-set	0	0	0	0	N	0		_			N		N		© I
Dual set point *11	0	0	0	N	N	0	N	N	N	N	N		N	N	© I
Local Permit / Prohibit	N	N	N	N	N	0	© ■	© I	© I	© ■	N		N	© ■	© I
Fan speed	0	0	0	0	N	0				_	N		N		© ■
Air-flow direction	0	0	0	0	N	0					N		N		© I
Status monitoring					14						14		IN		
ON / OFF	I 0	1 0	1 0	1 0				10		0	A	0		10	0
Mode (cool / heat / dry / fan)	0	0	0	0	N	0	0	0	0	0	N	0	N	0	0
Temperature-set	0	0	0	0	N	0	0	0	0	0	N	0	N	0	0
Local Permit / Prohibit	0	0	0	0	0	0	0	0	0	0	N	0	N	0	0
Fan speed	0	0	0	0	N	_	_	_	_	_	N	_	N	_	0
Air-flow direction	0	0	0	0	N	0	0	0	0	0	N	0	N	0	0
	0	0	0	N	N	0	0	0	0	0	N	0	N	0	0
Indoor temperature Filter sign	0	0	N	N	N	0	0	0	0	0	N	0	N	0	0
	0	0	0	0	0	0	0	0	0	0	IN .	0	IN	0	0
Error flashing Error code	0	0	0	N	0	0	0	6	0	0	N	0	N	0	0
	N	N	N	N	N	N	N	N	N	N	N	N	N	N	•
Operation hour	I IN	I IN	I IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	
■Scheduling		1 0	l N	l N	l NI	1 0	•	•	•	•	l NI		N.	•	•
One-day Times of ON / OFF per day	1	1	N N	1/1	N N	16	24	24	24	24	N N	24	N N	24	24
	0	0					_		_						
Weekly			N	N	N	0	0(•)	0(•)	0(0)	0(•)	N	O(•)	N	O(•)	O(•)
Times of ON / OFF per week	8 x 7	8 x 7	N	N N	N	16 x 7	24 x 7	24 x 7	24 x 7	24 x 7	N N	24 x 7	N	24 x 7	24 x 7
Annual Optimized start-up	N N	N N	N N	N	N N	N N	0	0	0	0	N	0	N N	0	0
Auto-off timer	0	0	N	N	N	N	N	N	N	N	N	N	N	N	N
Min. timer setting unit (minute)	5	5	N N	10	N	5	1	1	1	1	N	1 1	N	1	1 1
■Recording	5] 5	I IN	10	IN	5					IN		IN		- 1
•	I 0	ΙN	l N	l N	l NI	1 0	10	10			l NI	101	N.	10	0
Error record Daily / monthly report	N	N N	N N	N	N N	N	N	N	O N	O N	N N	N	N N	N	
Electricity charge	N N	N N	N N	N N	N	N	N	N	N	N	N	N	N	N	<u> </u>
Energy management data	N N	N N	N N	N N	N	N	N	N	N	N	N	IN	N	N	
■Other	IN IN	I IN	IN IN	IN IN	IN	IN	IN	IN	IN	IN	IN		IN	IN	N
	I 0	1 0	1 0	l N	l N	l N	l N	N	N	N	l N	l N	N	l N	N
Temp-set limitation by Local R / C Temp-set limitation by System controller *4	0 %	0	0 *6	N	N	O*6	N	O*2*6		O*2*6	N	O*2*6	N	O*2*6	N ⊚ *6
Operation-lock	0	0	0	N	N	© *•	N	N	N	N	N	N	N	N	N
Night setback	0	0	N	N	N	0	O	O*2	0	O*2	N	O*2	N	O*2	O
Sliding temperature control	N	N	N	N	N	N	0	O*2	0	O*2	N	O*2	N	O*2	0
■Management (Group / In		I IN	I IN	IN	IN	IN		0.			IN	0-	IN		
Ventilation interlock	<i>'</i>	l N/O	l N/O	L N	0	1 0	10	0/0	1 0	0/0	l NI	0/0	N.	0/0	010
Group setting	N /O	N/O	N /O	N							N		N	0/0	0/0
Block setting	O *1	0		N	0	0	0	O*2	0	O*2	N	O*2	N	_	0
Revision of electricity charge	N N	N N	N N	N	N N	N	0	O*2 N	0	O*2	N	O*2	N	O*2	0
■Operating on LOSSNAY				N	IN	N	N	IN	N	IN	N	N	N	N	
ON / OFF		.` '	. ′	N / O*8	0/0*3						A / A		A / A		@1@
Fan speed	N/O	N/O N/O	N/O	N / O*8	⊚/⊚*3 N							10/0			@/@ @/@
<u> </u>	N/O		N												
Ventilation mode	N/N	N N	N / Intari	N N	N	@/N	I@/N	IO/N	IO/N	◎/N	IN / N	0/ N	IN / IN	IO/N	O/ N
Status monitoring on LOS					N.	1010	1010	1010	1010	1010		1010		1010	0.0
ON / OFF	N/O	N/O	N/O	N	N	0/0									0/0
Fan speed	N/O	N/O	N	N	N	0/0									0/0
Ventilation mode	N	N	N	N	N	O/N	10/N	10/N	10/N	10/N	N / N	IO/N	N/N		O/ N

©: Each group / Batched; O: Each group; ☐: Block (for CITY MULTI Indoor unit, not for all Mr.SLIM); ●: AG-150A/GB-50ADA-J/EB-50GU-J license registration properties of the optional functions required N: Not Available (Not Used.) △: Batched only; ▲: Batched handling (for maintenance) ■: Block

(®): License registration for the optional functions required N: Not Available (Not Used.) \(\Delta:\) Batched only; \(\Delta:\) Batched handling (for maintenance) \(\Delta:\) 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. AG-150A/EB-50GU-J/GB-50ADA-J license registration to AG-150A/EB-50GU-J/GB-50ADA-J is required to monitor and operate the units by browser and TG-2000A.

*5. AG-150A/ED-50GU-J/GB-50ADA-J is compatible with TG-2000A Ver. 6.400 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, AG-150A, GB-50ADA-J, and EB-50GU-J.

*8. Inter-lock is set from system controllers (Except PAC-YT40ANRA) or local remote controllers.

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*8. Inter-lock is set from system controllers (Except PAC-YT40ANRA) or local remote controllers.

The maximum number of controllable units decreases depending on the indoor unit model

19. The intermitation of controllars and state of the first of the fir

LOSSNAY remote controller PZ-52SF		Management Group setting
■Controllable LOSSNAY Groups	1	Block setting
■Controllable LOSSNAY unit	16	■Status monitoring
■Operating		ON/OFF
ON/OFF	0	Mode
Mode		(automatic ventilation/vent-heat interchange/normal ventilation)
(automatic ventilation/vent-heat interchange/normal ventilation)	0	Local Permit-Prohibit
Local Permit-Prohibit	N	Fan speed
Fan speed	0	Air flow direction
Air flow direction	N	Filter sign
■Scheduling	N	Error flashing
■Recording	N	Error code

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.

0

Remote Controller



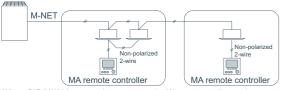
Individual _ Remote Controller

Wired MA remote controller PAR-31MAA



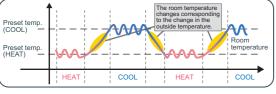
Dimensions: 120(W) x 120(H) x 19(D) mm : 4-3/4(W) x 4-3/4(H) x 3/4(D) in.

Example of system configuration



to the same group.

Operation pattern during Auto (dual set point) mode



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

Dual set point

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

*Please contact your Mitsubishi Electric sales office for details.

• Backlit LCD (Liquid Crystal Display)

Large, easy-to-see display

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

Night Setback

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

Language selection

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

Functions

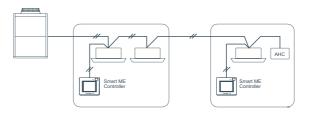
	: Each group	X: Not av	ailable
Item	Description	Operations	Display
ON/OFF	Switches between ON and OFF.	0	0
Operation mode switching	Switches among Cool/Dry/Fan/Auto/Heat.	0	0
Room temp. setting	The temperature can be set within the following range. Cool/Drying : 19°C - 35°C/67°F - 95°F Heat : 4.5°C - 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.	0	0
Air flow direction setting	Changes airflow direction. * Available airflow directions vary depending on the model.	0	0
Louver setting	Switches between louver ON/OFF.	0	0
Ventilation equipment control	Interlocked setting and interlocked operation setting with the CITY MULTI LOSSNAY units can be made. The Stop/Low/High settings of the ventilation equipment can be controlled.	0	0
Error information	When an error occurs, an error code and the unit address appear. Air conditioning unit model, serial number, and contact number can be set to appear when an error occurs. (The information above needs to be entered in advance.) *An error code may not appear depending on the error.	-	0
Timer	ON/OFF timer Turns ON and OFF daily at a set time. • Time can be set in 5-minute increments. • It is also possible to set the ON time only or the OFF time only. Auto-OFF timer Turns off the unit after a certain period of operation. • Operation time can be set to a value from 30 to 240 minutes in 10-minute increments.	0	0
Allows/disallows local operation	The following operation can be prohibited by making certain settings on the centralized controller: ON/OFF, operation mode setting, temperature setting, fan speed, air direction, and filter sign reset. *While an operation is prohibited, the operation icon lights up (only on the Main display in the "Full" mode).	×	0
Operation lock	The following operation can be prohibited respectively: ON/OFF, operation mode setting, temperature setting, and airflow direction setting.	0	0
Temperature range restriction	The room temperature range for each operation mode can be restricted.	0	0
Auto return	The units operate at the preset temperature after a designated period. (Time can be set to a value from 30 to 120 in 10-minute increments.) * Not valid when the temperature setting range is restricted	0	х

Smart ME Controller PAR-U02MEDA



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

Example of system configuration



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

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

Functions

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

2

Remote Controller

Remote Controller

○:Fach group ×:Not available



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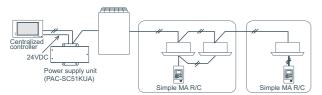
Individual _ Remote Controller

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 $\boxed{\epsilon_{\!\!\!\!4}}$ button is pressed.
- The only wiring required is cross-over wiring based on two-wire signal lines.
- Room temperature sensors are built-in.
- Can operate all types of indoor units

*Since this controller has limited functions, it should always be used in conjunction with standard controller or centralized controller.

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

Functions

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

Remote Controller

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



Dimensions: 58(W) x 159(H) x 19(D) mm

: 2-5/16(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.

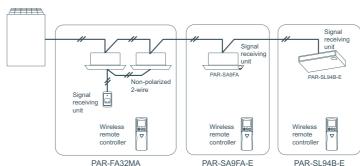


PAR-SL94B-E (Wireless remote controller kit for ceiling suspended)

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

^{*}Some models will have different display for the air flowdirection and fan speed. Set the air flow direction and fan speed when performing initial setting.

Remote Controller



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



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.

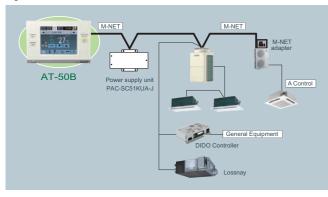
Temperature will be displayed either in Centigrade in 0.5or 1-degree increments, or in Fahrenheit, depending on the indoor unit model and the display mode setting on the remote controller.

Dual set point

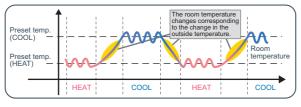
When the operation mode is set to the Auto (dual set point) mode, two preset temperatures (one each for cooling and heating) can be set. Depending on the room temperature, indoor unit will automatically operate in either the Cool or Heat mode and keep the room temperature within the preset range.

*Please contact your Mitsubishi Electric sales office for details.

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



GROUP screenDisplays the detailed operation status of each group.
Sets group operations.

Remote Controller

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

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

Remote Controller



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

System structure

Centralized controller AG-150A



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



AG-150A

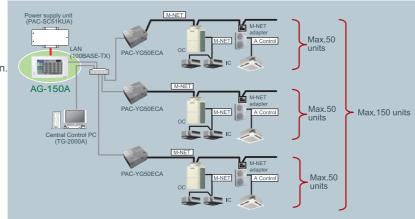
Expansion Controller PAC-YG50ECA



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

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

System structure



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

Design

Backlight color liquid crystal

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

Control in the night with no lights is possible.

Touch panel

9 inch wide, high-resolution

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

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

Flat back

Functions

Easy installation

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

*Optional parts are required.

USB memory compatible

Measurement/initial setting CSV data extractable with USB memory.

Can save and overwrite setting data.

Functions

Controllable units/groups

Controls up to 50 units/groups (including indoor units, LOSSNAY, DIDO/AI/PI controller)

Up to 150 units can be controlled via expansion controller; PAC-YG50ECA (AG-150A software needs to be upgraded to Ver. 2.10 or later.)

Monitoring functions

Temperature/Humidity (using AI controller)

General equipment such as lights on LCD (using DIDO

Interlock function from AI controller, DIDO controller to indoor units and between DIDO units are available.

AG-150A interlock with DIDO controller or free contact on an indoor unit available. * Ver. 2.30 or later

Energy saving functions

Seasonal scheduling and automatic switch over *1

Yearly scheduling on LCD *1

Scheduling fan speed and airflow direction

Optimized Start up

External temperature interlock control

Night setback control

*1 License required.

	☐ : Each unit ○ : Each group ● : Each block △ : Each floor ◎ : Collec	tive X: Not a	vailable
Item	Description	Operations	Display
Controllable unit	50 units/groups or 150 units/groups via expansion controller; PAC-YG50ECA.		
ON/OFF	Run and stop operation for the air conditioner units and general equipment. (To operate general equipment, PAC-YG66DCA is required.)	$\bigcirc \bigcirc \triangle \bigcirc$	00
Mode selection	Switches between Cool / Dry / Auto / Fan / Heat. (Group of LOSSNAY unit: automatic ventilation/ vent - heat interchange/ normal ventilation) depending on the air conditioner unit. Auto mode is for CITY MULTI R2 and WR2 series only.	0 0 4 •	0
Temperature setting	Cool/Dry: 19°C-30°C (14°C-30°C) / 67°F-87°F(57°F-87°F) Heat : 17°C-28°C (17°C-28°C) / 63°F-83°F(63°F-83°F) Auto : 19°C-28°C (17°C-28°C) / 63°F-83°F(63°F-83°F) () in case of using middle-temperature on PEFY-VML/VMR/VMS/VMH by setting DipSW7-1 to ON. Yet, PEFY-P-VMH-E-F is excluded.	0 O A •	0
Fan speed setting	Models with 4 air flow speed settings: Hi/Mid-2/Mid-1/Low Models with 3 air flow speed settings: Hi/Mid/Low Models with 2 air flow speed settings: Hi/Low Fan speed setting (including Auto) varies depending on the model.	0 0 0	0
Air flow direction setting	Air flow direction angles, 4-angle or 5-angle Swing, Auto (Louver cannot be set)	$\bigcirc \bigcirc \triangle \bigcirc$	0
Schedule operation	Annaul/Weekly (5 types)/today schedule can be set for each group of air conditioning units. Optimized startup setting is also available.	0000	0
Permit / Prohibit local operation	Individually prohibit operation of each local remote control function (Start/Stop, Change operation mode, Set temperature, Reset filter).	0000	0
Indoor unit intake temperature	Measures the intake temperature of the indoor unit only when the indoor unit is operating.	X	0
Error	When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed.	×	
Test run	This operates air conditioner units in test run mode.	$\bigcirc \bigcirc \triangle \bigcirc$	0
Ventilation interlock	The ventilation unit (LOSSNAY) is able to automatically start its operation when operation of the interlocked indoor unit starts.	$\bigcirc \bigcirc \triangle \bigcirc$	0
External input/output	By using optional external input/output adaptor (PAC-YG10HA) you can set and monitor the following. Input: By level signal: "Batch start/stop", "Batch emergency stop" By pulse signal: "Batch start/stop", "Enable/disable local remote controller" Output: "Start/stop", "Error/Normal"	0	0

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

Remote Controller



Remote Controller

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

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).

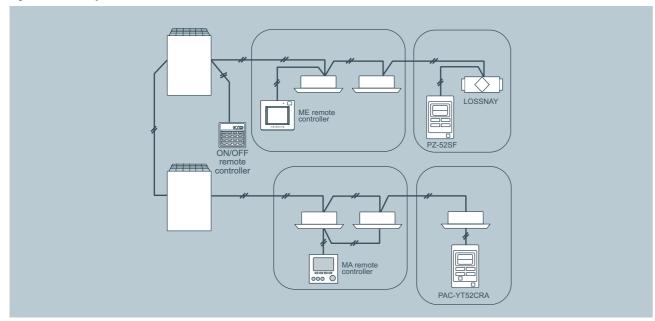
ON/OFF remote controller PAC-YT40ANRA



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

* 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).

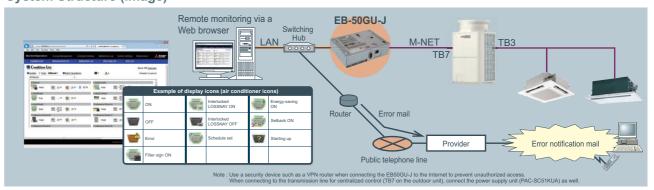
Using "Dial-up Connection"

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

Java is a registered trademark of	of Oracle and/or its affiliates. ☐:Each unit ○:Each group ●:Each block △:Each floor ⊙:Collecti	ve X:Nota	available
Function	Description	Operations	Display
ON / OFF	Run and stop operation for the air conditioner units	000	00
Mode selection	Switches between COOL/DRY/FAN/AUTO/HEAT	$\bigcirc \bullet \bigcirc$	0
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.	○●◎	0
Air flow direction setting	Air flow direction angles, 4-angle or 5-angle Swing, Auto (Louver cannot be set)	$\bigcirc \bullet \circledcirc$	0
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.	000	0
Permit / Prohibit function	Individually prohibit operation of each local remote control function	000	0
Indoor unit intake temperature	Measures the intake temperature of the indoor unit only when the indoor unit is operating.	X	Ō
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.	0⊚∆●	0
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).	0	0
AHC status	Displays the status of input and output ports of each Advanced HVAC CONTROLLER (AHC).	×	
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.	×	

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

System Structure (image)



Annual / Weekly Schedule

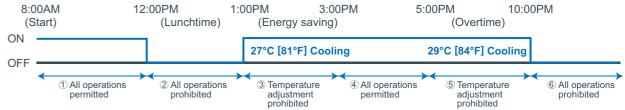
Enables Weekly and Annual scheduling with a registering license

- 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

Remote Controller

Remote Controller

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Centralized controller GB-50ADA-J*



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.

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

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).

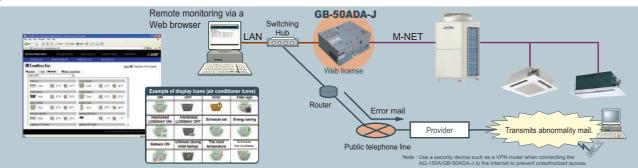
Using "Dial-up Connection"

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

Function	Description
runction	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/IDry: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	Annaul/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

*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

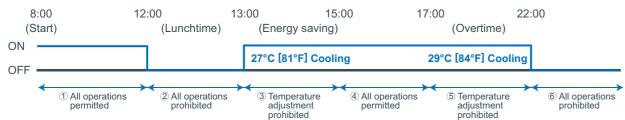
Enables Weekly and Annual scheduling with a registering license

- 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



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

Remote Controller

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).

*a2 SIMPLE APPLICATION CONTROLLER is one of the Programming Logic Controllers that are manufactured by MITSUBISHI ELECTRIC CORPORATION.

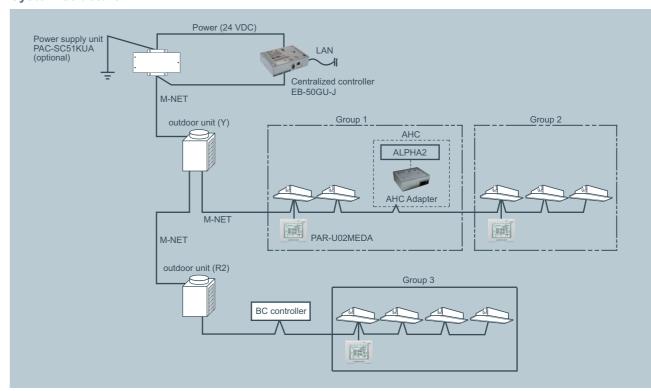
AHC allows for the connection of MITSUBISHI ELECTRIC's air conditioning network system (hereafter referred to as M-NET) to other systems, which was not possible with the use of ALPHA2 alone. AHC provides the following functions.

- 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



Remote Controller



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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.

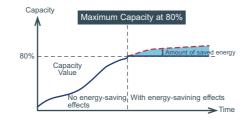
*24 VDC power needs to be provided on site.

Energy Saving Control (Peak Cut)

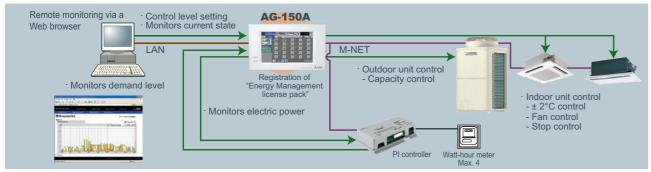
Enables Energy Saving Control with the use of our new PI controller. (Registration of "Energy Management license pack" is required.)

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.



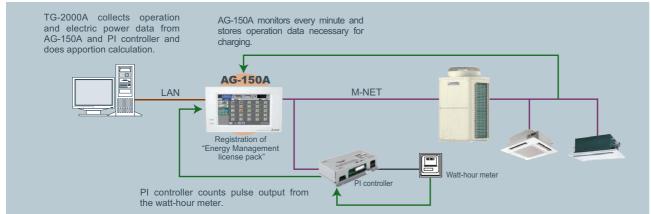
System Structure



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.

General-purpose equipment Control

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

No more PLCs are needed!

*24 VDC power needs to be provided on site.

the DIDO controller.

- 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.





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

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 Al controller has two input and two output channels.

*24 VDC power needs to be provided on site.

Temperature/Humidity Monitoring

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

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

- Trend displays of measurement data can be shown on a Web browser.
- · An alarm can be output by e-mail when measurement data exceeds a preset upper or lower limit.

System Structure



Remote Controller

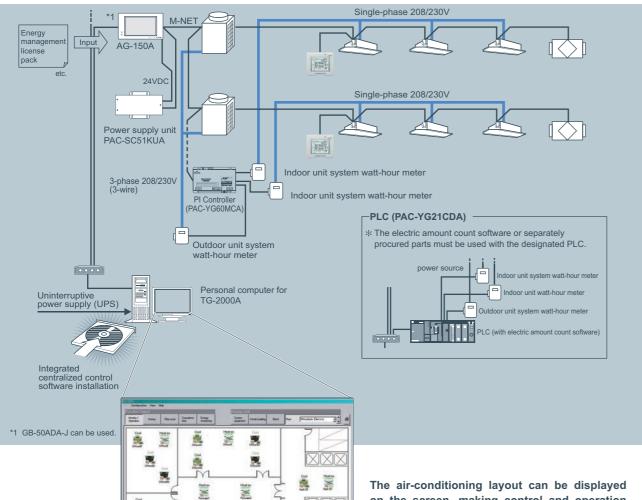
Remote Controller



Page 155 Page 156

Integrated centralized control software TG-2000A

Example of Basic System Configuration



The air-conditioning layout can be displayed on the screen, making control and operation easier.

Effective use of TG-2000A

-

-

š 3

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



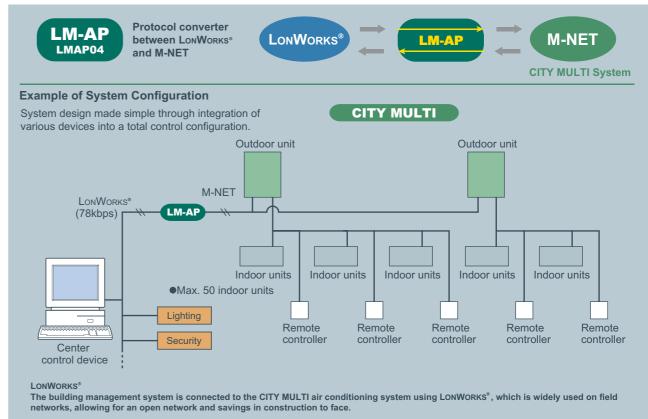
For example, installing TG-2000A to the system in the headquarters makes it possible to control AG-150A/GB-50ADA-J units that are used in branch offices.

LonWorks® (LMAP04)

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

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

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



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

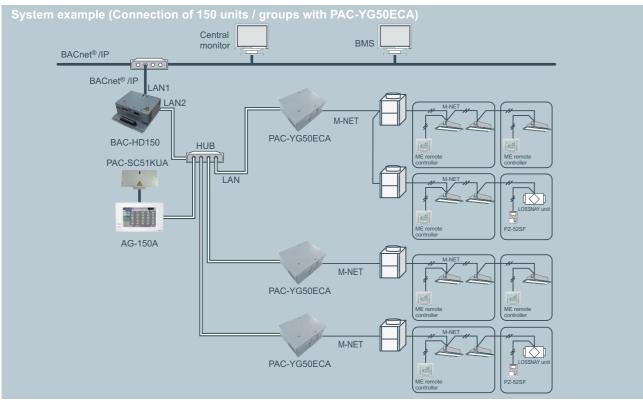
BACnet® (BAC-HD150)

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®.

 $\ensuremath{\mathsf{BAC}\text{-}\mathsf{HD150}}$ can control up to 50 units/groups (including LOSSNAY).

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

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



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



Remote Controller

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O ptional parts

OPTIONAL PARTS FOR INDOOR UNITS

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

Description	Model	Applicable capacity		
Description	Model	VBM	VCM	
Decoration panel	SLP-2AAW/SLP-2ALW	-	P20, P25, P32, P40	
Decoration parier	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)

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

Description	Model	Applicable capacity	D
	CMP-40VLW-C	P20, P25, P32, P40	Dec
Decoration panel	CMP-63VLW-C	P50, P63	
Decoration paner	CMP-100VLW-C	P80, P100	
	CMP-125VLW-C	P125	
OA duct flange	PAC-KH110F	P20, P25, P32, P40, P50, P63, P80, P100	

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

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

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

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

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

Description	Model	Applicable capacity
	PAC-KE88LAF	P80
Long life filter	PAC-KE89LAF	P140
	PAC-KE85LAF	P200, P250
	PAC-KE80TB-F	P80
Filter box	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-SI 94R-F	P40 63 100 125

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

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

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

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



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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
	CMY-Y100VBK2 / 3	For PUHY-P500~P650 / EP400~EP600YSJM
Twinning kit	CMY-Y200VBK2	For PUHY-P700~P900YSJM
	CMY-Y300VBK2 / 3	For PUHY-P950~P1250 / EP650~EP900YSJM
	CMY-Y102SS-G2	200 or below (Total capacity of indoor unit)
	CMY-Y102LS-G2	201-400 (Total capacity of indoor unit)
	ONAY V0000 00	401-650 (Total capacity of indoor unit)
Branch pipe (Joint)	CMY-Y202S-G2	The 1st branch of P450~P650
	CMY-Y302S-G2	651 or above (Total capacity of indoor unit)
		The 1st branch of P700~P1250
	CMY-Y104-G	For 4 branches
Branch pipe (Header)	CMY-Y108-G	For 8 branches
	CMY-Y1010-G	For 10 branches
Relay box	PAC-BH02KTY-E	Relay box should be used together with Base heater PAC-BH-EHT-E
	PAC-BH01EHT-E	For S Module
Base heater	PAC-BH02EHT-E	For L Module
	PAC-BH03EHT-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

// OF FORT 111 3CHE3				
Description	Model	Remarks		
	CMY-Y102SS-G2	200 or below (Total capacity of indoor unit)		
Branch pipe (Joint)	CMY-Y102LS-G2	201-400 (Total capacity of indoor unit)		
branch pipe (Joint)	CMY-Y202S-G2	401-650 (Total capacity of indoor unit)		
	CIVIT-12025-G2	The 1st branch of P400,P500		
	CMY-Y104-G	For 4 branches		
Branch pipe (Header)	CMY-Y108-G	For 8 branches		
	CMY-Y1010-G	For 10 branches		
Twinning kit	CMY-Y100VBK2 / 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 PURY series

For PUKY series		
Description	Model	Remarks
	CMY-R100VBK	For PURY-P400~P650 / EP400~EP600YSJM
Twinning kit	CMY-R200VBK	For PURY-P700~P800YSJM
TWITHING KIL	CMY-R100XLVBK	For PURY-P800 / EP600~700YSJM
	CMY-R200XLVBK	For PURY-P850~900YSJM
	CMY-Y102SS-G2	200 or below (Total capacity of indoor unit)
Decembering (Injust)	CMY-Y102LS-G2	201-400 (Total capacity of indoor unit)
Branch pipe (Joint)	CMY-Y202S-G2	401-650 (Total capacity of indoor unit)
	CW11-12025-G2	The 1st branch of P450~P650
Relay box	PAC-BH02KTY-E	Relay box should be used together with Base heater PAC-BH-EHT-E.
	PAC-BH01EHT-E	For S Module
Base heater	PAC-BH02EHT-E	For L Module
	PAC-BH03EHT-E	For XL Module

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

>>For PQHY series

Description	Model	Remarks	
	CMY-Y102SS-G2	200 or below (Total capacity of indoor unit)	
	CMY-Y102LS-G2	201-400 (Total capacity of indoor unit)	
Branch pipe (Joint)	CMY-Y202S-G2	401-650 (Total capacity of indoor unit)	
	GW11-12025-G2	The first branch of P400-P600	
	CMY-Y302S-G2	651 or above (Total capacity of indoor unit)	
	CMY-Y104-G	For 4 branches	
Branch pipe (Header)	CMY-Y108-G	For 8 branches	
	CMY-Y1010-G	For 10 branches	
Turinging bit	CMY-Y100VBK2	For PQHY-P400-P600YSHM-A	
Twinning kit	CMY-Y300VBK2	For PQHY-P650-P900YSHM-A	

>>For PQRY series

Description	Model	Remarks		
	CMY-Y102SS-G2	200 or below (Total capacity of indoor unit)		
December of the (defeat)	CMY-Y102LS-G2	201-400 (Total capacity of indoor unit)		
Branch pipe (Joint)	CMY-Y202S-G2	401-650 (Total capacity of indoor unit)		
	GW11-12025-G2	The first branch of P400-P600		
Twinning kit	CMY-Q100VBK	For PQRY-P400-P600YSHM-A		

OPTIONAL PARTS FOR CONTROL

Model	Description	Model	Description
PAC-SE41TS-E	Remote Sensor for A/J/K/M-Net Control	PAC-YT41HAA	External input/output adapter for AT-50A
PAC-SE55RA-E	Remote ON/OFF adaptor for Indoor Unit	PAC-YG10HA	External input/output adapter for 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-YG85KTB	Mounting attachment A type for AG-150A/PAC-SC51KUA wall-mount installations
LMAP04-E	Air conditioner interface	PAC-YG71CBL	Black surface cover for AG-150A
PAC-YG11CDA	Electric amount count software		
BAC-HD150	BAC net® and M-NET adapter		

OPTIONAL EQUIPMENT FOR BC CONTROLLER

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

Optional parts

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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
	m³/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 30 min-4hours, per 30 min)

Standard setting Cooling 14°C 30°C Low temperature limit Temperature in this

Limiting set temperature range By limiting lowest / highest temperature, it is possible to save

By limiting lowest / highest temperature, it is possible to 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.

PFAV Serie



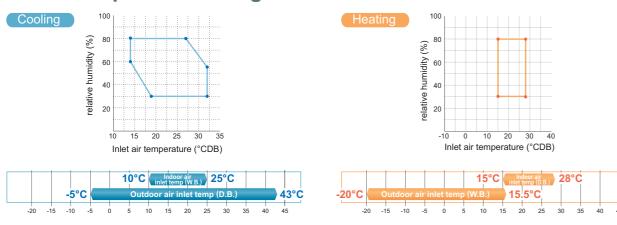
IStandard model

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.



Wide temperature range



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.

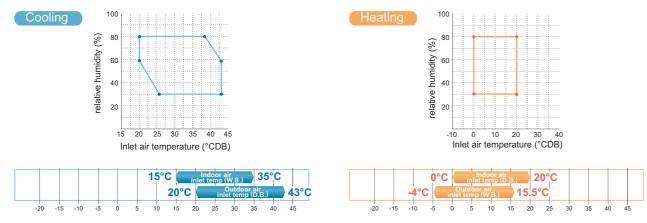
IFresh Air Intake model

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.



Wide temperature range



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

PFAV Series

PFAV Series STANDARD Model

PFAV-P VM-E

▶ Specifications



Model Name	Indoor		PFAV-P2	250VM-E	PFAV-P8	500VM-E	PFAV-P	750VM-E
	Outdoor		PUHY-P250	YJM-A(-BS)	PUHY-P500\	(SJM-A(-BS)	PUHY-P750YSJM-A (-BS) (PUHY-P350YJM-A(-BS)	
					(PUHY-P250YJM-A(-B	S) × 2,CMY-Y100VBK2)	+PUHY-P400YJM-A(-	BS),CMY-Y200VBK2)
Operation			Cooling	Heating	Cooling	Heating	Cooling	Heating
System capacity		kW	25.0	28.0	50.0	56.0	71.0	80.0
			(Maximum 28.0)	(Maximum 31.5)	(Maximum 56.0)	(Maximum 63.0)	(Maximum 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		Α	14.5-13.8-13.3 /	15.8-15.0-14.4 /	32.3-30.7-29.6 /	30.8-29.3-28.2 /	48.1-45.7-44.1 /	43.4-41.2-39.8 /
			13.4-12.8-12.3	14.7-14.0-13.4	32.6-31.0-29.9	31.1-29.6-28.5	47.5-45.1-43.5	42.8-40.6-39.2
Power source			3-phase 4-wire		3-phase 4-wire			: 380-400-415V
			(50Hz	,	(50Hz	,	,	/ 60Hz)
Power input		kW		0.89	2.37			/ 5.37
Current		Α	3.4-3.2-3.1		6.2-5.9-5.7			0 / 10.3-9.8-9.4
Fan Type × Quantity			Sirocco	fan × 2	Sirocco fan × 1		Sirocco fan × 1	
Airflow rate External static pressure		m ³ / min	90		180		260	
		Pa	30 / 90		30 / 130		100 / 310	
Motor output		kW	2.2		5.5		7.5	
Refrigerant			R410A		R410A		R410A	
External finish			Galvanized steel plate		Galvanized steel plate		Galvanized steel plate	
			(with polyes <munsel 5y<="" td=""><td></td><td colspan="2">(with polyester coating) <munsel 1="" 5y="" 8="" or="" similar=""></munsel></td><td colspan="2">(with polyester coating) <munsel 1="" 5y="" 8="" or="" similar=""></munsel></td></munsel>		(with polyester coating) <munsel 1="" 5y="" 8="" or="" similar=""></munsel>		(with polyester coating) <munsel 1="" 5y="" 8="" or="" similar=""></munsel>	
External dimension H × W × E	`	mm	1.748 × 1.200 × 485		1,899 × 1,420 × 635			750 × 1,064
Protection devices	,	Fan motor	Therma		Therma			al switch
Refrigerant piping diameter	Liquid pipe	1 all Illotol	9.52 Brazed (12.7 for over 90m) 15.88 Brazed			19.05 Brazed		
itelligerant piping diameter	Gas pipe		22.2 E		28.58 Brazed		34.93 Brazed	
Refrigerant piping allowable le		m		35	165		165	
Sound pressure level	ngui	dB(A)	5		59 / 62			i5
Heat exchanger		UD(A)	Cros		Cross fin			ss fin
neat exchanger		(Aluminum plate fir		(Aluminum plate fin and copper tube)			n and copper tube)	
Air filter		` '	woven cloth filter	Synthetic fiber unwoven cloth filter			mb fabric filter	
Net weight		kg	15		265		,	59
Operating temperature range		9	Cooling	Heating	Cooling	Heating	Cooling	Heating
a programma range			Indoor:10°CWB~25°CWB	Indoor:15°CDB~28°CDB	Indoor:10°CWB~25°CWB	Indoor:15°CDB~28°CDB	Indoor:10°CWB~25°CWB	Indoor:15°CDB~28°CDB
					(Outdoor:-5°CDB~43°CDB)			

Notes:

	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.)

- 2. The sound pressure level is measured in an anechoic room
- 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 pa	rts	Description	Model	Applicable capacity
			PAC-CC83PL-E	PFAV-P250VM-E
Indoor unit		Plenum chamber	PAC-CC85PL-E	PFAV-P500VM-E
			PAC-CC87PL-E	PFAV-P750VM-E
Outdoor unit		Torinaine hit	CMY-Y100VBK2	PUHY-P500YSJM-A
Outdoor unit		Twinning kit	CMY-Y200VBK2	PUHY-P750YS.IM-A

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

PFAV Series FRESH AIR INTAKE Model PFAV-P VM-E-F



▶ Specifications

Model N	ame	Indoor		PFAV-P30	00VM-E-F	PFAV-P60	00VM-E-F	PFAV-P90	00VM-E-F
	Outdoor			PUHY-P250	YJM-A(-BS)	PUHY-P500Y	(SJM-A(-BS)	PUHY-P750YSJM-A(-BS)	(PUHY-P350YJM-A(-BS)
						(PUHY-P250YJM-A(-BS	S) × 2,CMY-Y100VBK2)	+PUHY-P400YJM-A(-	BS),CMY-Y200VBK2)
Operation			Cooling	Heating	Cooling	Heating	Cooling	Heating	
System	capacity		kW	28.0	26.5	56.0	50.0	80.0	71.0
				(Maximum 33.5)	(Maximum 28.0)	(Maximum 67.0)	(Maximum 56.0)	(Maximum 100.0)	(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		Α	12.6-11.9-11.5 /	14.0-13.3-12.8 /	26.1-24.9-24.0 /	27.4-26.1-25.1 /	40.5-38.5-37.1 /	38.7-36.8-35.5 /
				12.2-11.5-11.1	13.6-12.9-12.4	26.2-25.0-24.0	27.5-26.2-25.1	39.6-37.6-36.2	37.8-35.9-34.6
Power se	ource			3-phase 4-wire	380-400-415V	3-phase 4-wire	380-400-415V	3-phase 4-wire	380-400-415V
				(50Hz /	(60Hz)	(50Hz /	(60Hz)	(50Hz	(60Hz)
Power in	put		kW	0.37	0.36	0.90	1.26	1.77	1.97
Current			Α	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		m ³ / min	45		90		12	20
	External static pressure		Pa	80		110 / 170		210 / 330	
	Motor output		kW	1.5		2.2		3.7	
Refrigera	ant			R4	10A	R4	10A	R4	10A
External	finish			Galvanized	steel plate	Galvanized	steel plate	Galvanized	steel plate
				(with polyester coating)		(with polyester coating)		(with polyester coating)	
				<munsel 1="" 5y="" 8="" or="" similar=""></munsel>		<munsel 1="" 5y="" 8="" or="" similar=""></munsel>		<munsel 1="" 5y="" 8="" or="" similar=""></munsel>	
External	dimension H × W × [)	mm	1,748 × 1,200 × 485		1,899 × 1,420 × 635		1,860 × 1,750 × 1,064	
Protection	n devices		Fan motor	Thermal switch		Therma	l switch	Therma	I switch
Refrigera	ant piping diameter	Liquid pipe		9.52 Brazed (12	2.7 for over 90m) 15.88 Brazed 19.05 Brazed		15.88 Brazed		Brazed
		Gas pipe		22.2 E	Brazed	28.58 Brazed		34.93 Brazed	
Refrigera	ant piping allowable le	ength	m	16	35	165		16	35
Sound p	ressure level		dB(A)	48	3.5	50 / 53		5	7
Heat exc	hanger			Cros	s fin	Cros	ss fin	Cros	s fin
		(Aluminum plate fir	and copper tube)	(Aluminum plate fir	n and copper tube)	(Aluminum plate fir	and copper tube)		
Air filter				Synthetic fiber un	woven cloth filter	filter Synthetic fiber unwoven cloth filter PP Honeycomb fabric filt		nb fabric filter	
Net weig	ht		kg	15	51	24	18	43	37
Operatin	g temperature range			Cooling	Heating	Cooling	Heating	Cooling	Heating
				Indoor:15°CWB~35°CWB (Outdoor:20°CDB~43°CDB)	Indoor:0°CDB~20°CDB (Outdoor:-4°CWB~15.5°CWB)	Indoor:15°CWB~35°CWB (Outdoor:20°CDB~43°CDB)	Indoor:0°CDB~20°CDB (Outdoor:-4°CWB~15.5°CWB)	Indoor:15°CWB~35°CWB (Outdoor:20°CDB~43°CDB)	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

3 3	, ,	3		
	Indoor	Outdoor	Pipe length	Level difference
Cooling	33°CDB/28°CWB (91°FDB/82°FWB)	33°CDB/28°CWB (91°FDB/82°FWB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	7°CDB/3°CWB (45°FDB/37°FWB)	7°CDB/3°CWB (45°FDB/37°FWB)	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	
Outdoor unit	Twinning kit	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 defrostprocess.
- 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" 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.

- 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

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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" 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°CD.B./15.5°CW.B. ~ 43°CD.B./35°CW.B.

Heating: -10°CD.B.~ 20°CD.B

The unit is forced to operate Thermo OFF (fan operation) when the outside air temperature is as follows.

Cooling: 21°CD.B or below; Heating: 20°CD.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.

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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.
- ♦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 quard. 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 AG-150A, GB-50ADA, 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 AG-150A and GB-50ADA, 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 AG-150A or GB-50ADA, 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 AG-150A or GB-50ADA 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 AG-150A, GB-50ADA, 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 AG-150A, GB-50ADA, or TG-2000A to the Internet.

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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
Ī	Compressor	1 year	20,000 hours	Expansion valve	1 year	20,000 hours
ı	Motor (Fan, Louver, drain pump)		20,000 hours	Valve (solenoid valve, four-way valve) Sensor (thermistor, presser sensor)		20,000 hours
	Bearing		15,000 hours			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.

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

Table 2. Replacement cycle

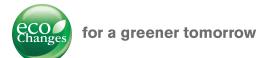
·					
Major components	Checking cycle	Replacement cycle			
Long-life filter		5 years			
High-performance filter		1 year			
Fan belt	4	5,000 hours			
Smoothing capacitor	1 year	10 years			
Fuse		10 years			
Crank case heater		8 years			

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

Note2 This 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.

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.)



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.



FM33568 / ISO 9001;2008

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

ISO Authorization System

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



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

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

∆Warning

- 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.

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