



AIR CONDITIONING SYSTEMS



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 heafing 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.

Intelligent Power Module (IPM) technology

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

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.



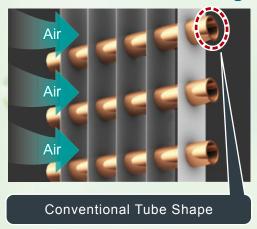
The New YKB/YLM Series

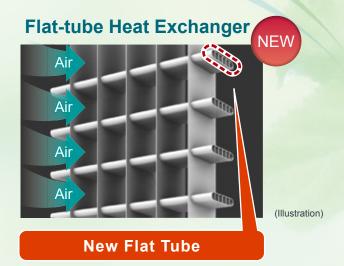
New Technology (PUHY/PURY-EP-Y(S)LM-A(-BS) only)

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



Conventional Heat Exchanger



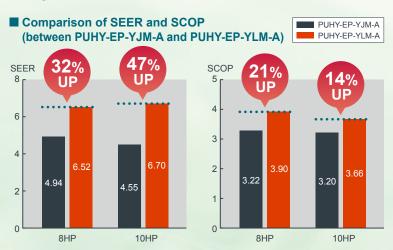


The heat exchanger of the outdoor unit has been drastically changed. Our new model uses a world-first aluminum flat-tube heat exchanger as a heat exchanger of the outdoor unit. The flat tubes can reduce airflow resistance, and the larger number of tubes can be installed in the flat-tube heat exchanger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

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

Lowest power consumption achieves industry-leading energy efficiency.

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



^{*1:} As of October 2013 (according to our own survey); for VRF systems

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

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

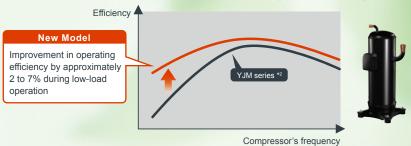
^{*4:} Except for EP300 and EP350 models

New Technology

Equipped with High Efficiency Compressor

Optimizing the capacity of the scroll compressor and modifying the winding of the compressor motor have led to the improvement in operating efficiency by approximately 2 to 7% during low-load operation that can occur often in actual use.

■ Relationship between Compressor's Frequency and Efficiency

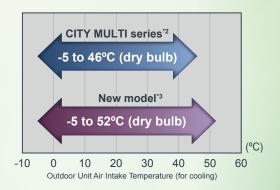


Flexibility of Design (PUHY-P-Y(S)KB-A(-BS)/PUHY-EP-Y(S)LM-A(-BS))

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

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

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



Reliability (PUHY/PURY-EP-Y(S)LM-A(-BS) only) Less amount of refrigerant is required to be charged on site.

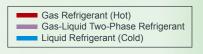
With our new flat-tube heat exchanger, the amount of refrigerant to be charged on site can be controlled and reduced. For example, when the total refrigerant piping length is 150 m, the amount of refrigerant to be charged on site can be reduced by approximately 10% compared to our conventional models,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

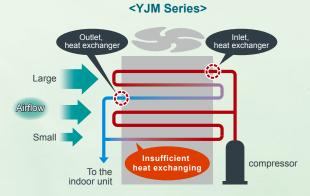
*In the case of liquid pipe ø19.05



New Technology (PUHY-EP-Y(S)LM-A(-BS) only)*4

Optimum Distribution of Refrigerant Using a BSC Circuit





The uniform distribution of the gas-liquid two-phase refrigerant flow throughout the heat exchanger resulted in insufficient heat exchanging at the lower part of the heat exchanger where the airflow was smaller.

Outlet, heat exchanger heat exchanger Large Alirilow Small To the indoor unit Efficient heat exchanging compressor

<New Model>

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



Sophisticated Yet Simple Technology

Reliable

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







PFFY-VKM

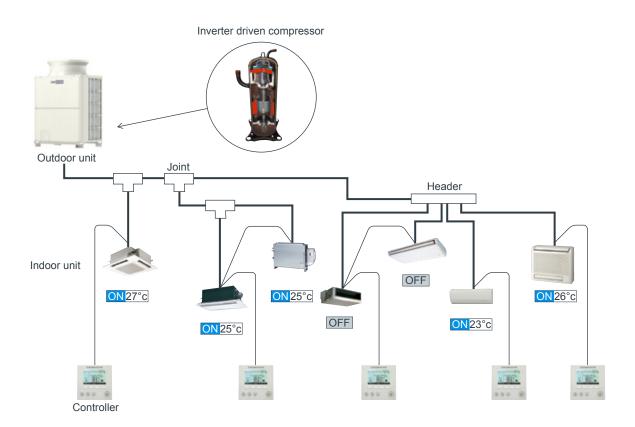
>All the CITY MULTI outdoor units are made under stringent control.

RF Systems

Our Answer to VRF

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

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

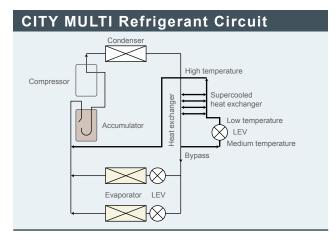


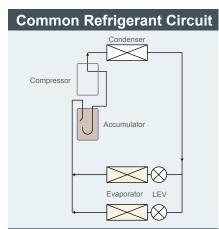


Unbeatable Efficiency

Heat Interchange Circuit

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





nverter Driven Compressor Technology





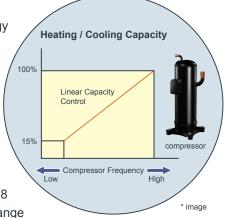
Using inverter driven technology saves energy for several reasons:

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 18HP YLM-A outdoor unit) and smooth transition across the range of compressor frequencies.



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

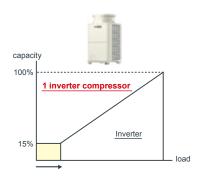
All CITY MULTI compressors are inverter-driven type.

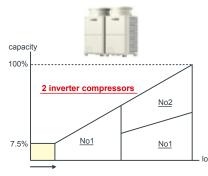
-Capable of precisely matching a building's cooling and heating demands. (High COP model)

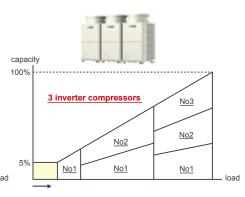
The outdoor unit combinations comprise 1 unit for 8-18HP systems (for Y and R2 series), 2 units for 20-24HP systems (for R2, 20-36HP) and 3 units for 26-54HP systems (Y series only). Each unit carries one inverter compressor making simple and highly reliable control possible.

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

Stable and Smooth Operation













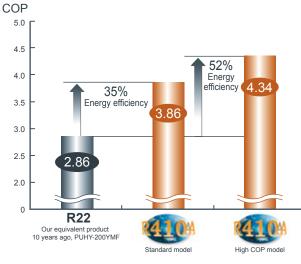






Total Energy Conservation

Comparison of COP (energy efficiency) – 8HP system



High COP (Coefficient of Performance) is realized

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

Intelligent Power Module (IPM) Technology

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

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

The Difference between YLM-A and Previous Mitsubishi Electric Models

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

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

The Importance of COP

COP stands for "Coefficient of Performance". It is a measure of the useful energy a system can deliver compared to the energy it consumes. It is calculated by dividing the energy output by the energy input of a system. The higher the figure then the more efficient the system is deemed to be. Mitsubishi Electric VRF models, the world's highest energy-efficient air-conditioners, will undoubtedly reduce millions of tons of CO₂ emissions.





For the Environment

Enhancing Environmental Care (measures for the RoHS Directive and the refrigerant reduction)

Every unit is in compliance with the RoHS Directive,* which stands for the Restriction of Hazardous Substances:

Lead-free soldering is used to avoid Lead Groundwater Contamination on the print board. The amount of refrigerant on the unit has also been reduced to enhance environmental care.

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

fficient R410A Refrigerant



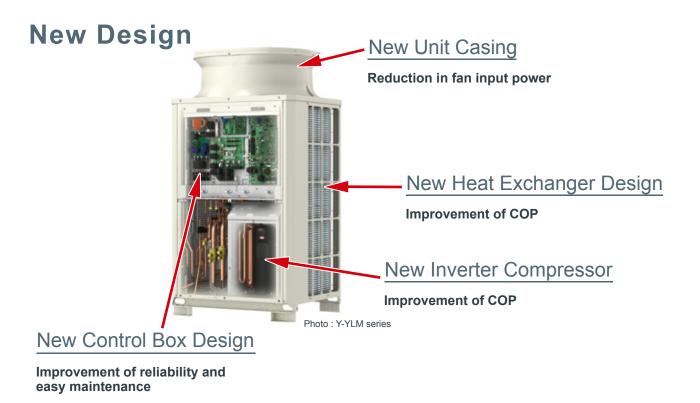
History of Refrigerant

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

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

Technical Aspects of Refrigerant

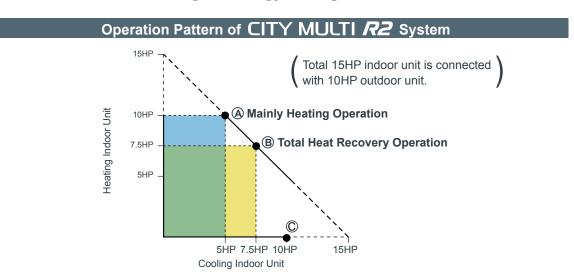
R410A is a more efficient refrigerant as it has a higher specific heat capacity when compared to R407C or R22. This higher energy carrying capacity allows for smaller pipe sizes, longer pipe runs and reduces the volume of refrigerant within a system. This is a major factor when concerning safety and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





Affordable & Effective air conditioning you can rely on

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

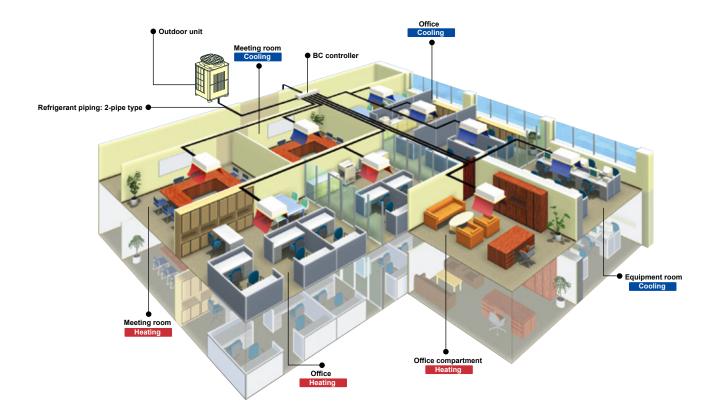


Unique Technology

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

Why Heat Recovery?

Flexibility and efficiency are key factors when selecting a heat recovery system. For example, while a heat pump system is adequate for a large open-plan office, an office that has a more partitioned structure will require the need to simultaneously heat or cool different sections of the office according to each user's individual preferences. The efficiency of this type of system comes from the ability to use the by-products of cooling and heating to transfer energy where it is required, thus acting as a balanced heat exchanger achieving up to 20% cost savings over a conventional heat pump system. The number of connection sites needed for a R2 system are also significantly lower than those needed for a three pipe version. This helps to reduce installation costs, further increasing the savings associated with CITY MULTI.

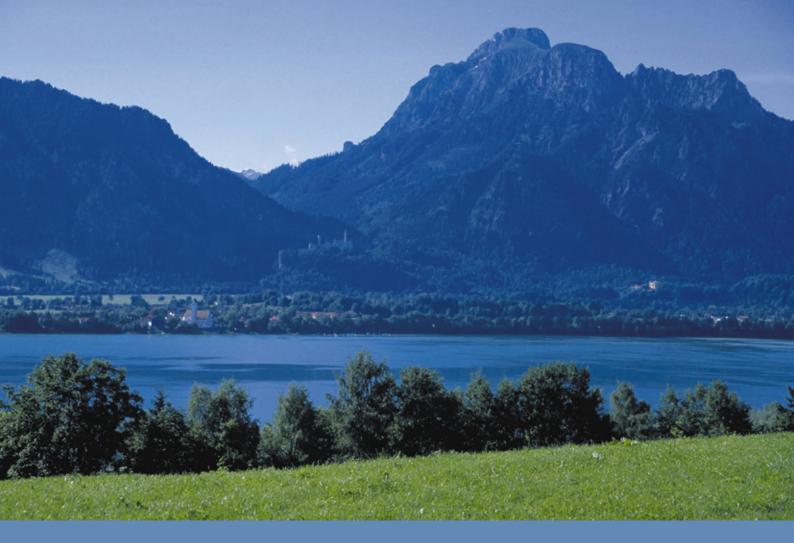






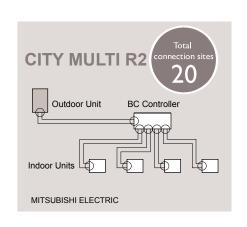


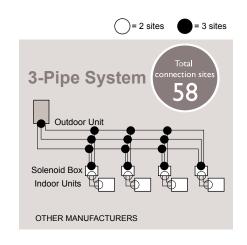




"2-pipe" System Provides Better Efficiency and Performance

Comparison Example of Piping Connection Sites





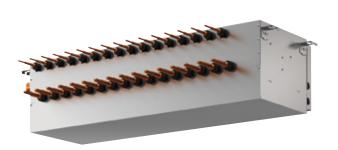
$oxedsymbol{\mathbb{T}}$ he World's First and Only "2-pipe" System

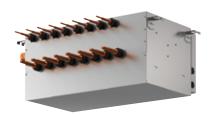
How does the R2 Heat Recovery System Operate on 2-Pipe's?

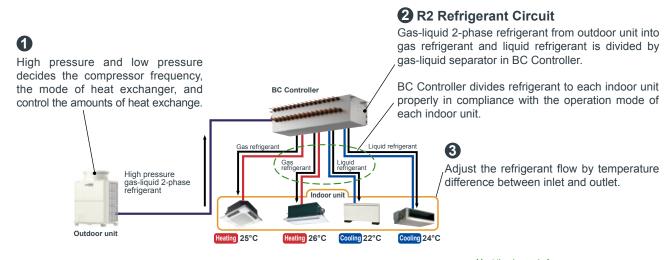
The secret of CITY MULTI heat recovery systems lies in the

BC Controller

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







Meet the demand of — — cooling / heating flexibly.

Heating=gas refrigerant Cooling=liquid refrigerant









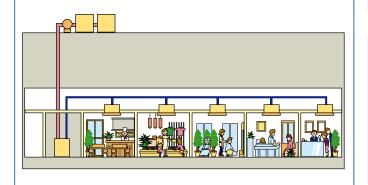






Water Cooled CITY MULTI Benefits

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.

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

Energy Saving Technology

What is Water-Cooled?

>A unique offering from Mitsubishi Electric

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

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



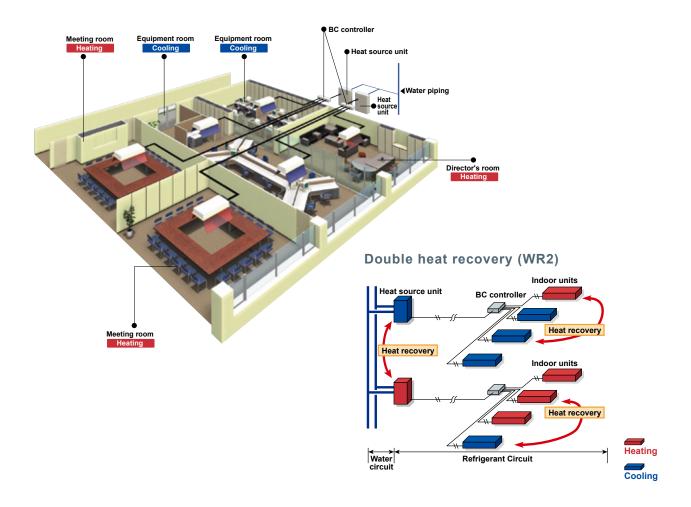
WR2(Heat recovery type)

Mitsubishi Electric now offers double heat recovery operation.

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

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

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

















O utdoor Unit

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

Wide Selection of Outdoor Units

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System	Туре	Model name	Mode	l	P112	P125	P140	P200	P250	P300	P350	P400	
		PUMY-P VKM-A(-BS) PUMY-P YKM-A(-BS)	Page32 - Page	333	4.5	5	6						
		Y series NEW Page34 - PUHY-P YKB-A(-BS)	Page44	S				8	10	 		8	
	Heat Pump	PUHY-P YSKB-A(-BS)		L		 			 	12	14		
Pump			XL										
		Y series - High COP NEW Page45 - PUHY-EP YLM-A(-BS) PUHY-EP YSLM-A(-BS)	- Page55	S				8	10	 	 		
Air Cooled		PUNT-EP TSLM-A(-BS)		L		 			 	12	14)	 	
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		Page62 - PURY-P YLM-A(-BS) PURY-P YSLM-A(-BS)	- Page67	S		 		8	10	 	 	8	
		FURT-F TSLIM-A(-BS)	9	L		 			 	12	14		
	Heat Recovery			XL									
	ricecreiy	R2 series - High COP NEW Page68 - PURY-EP YLM-A(-BS) PURY-EP YSLM-A(-BS)	- Page72	S		 		8	10	 	 		
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				XL								16	
Water	Heat Pump	PQHY-P YHM-A PQHY-P YSHM-A	Page56 - Page	961				8	10	12		8 8	
Cooled	Heat Recovery	WR2 series PQRY-P YHM-A PQRY-P YSHM-A	Page73 - Page	75				8	10	12		8	

^{*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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Y (Heat Pump) series



Cooling or Heating

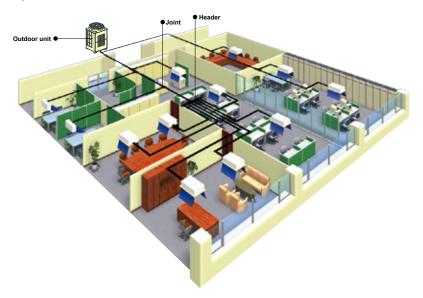
Y series — PUHY-P YSKB-A(-BS)

PUHY-P YKB-A(-BS)
PUHY-EP YLM-A(-BS)
PUHY-EP YSLM-A(-BS)

The two-pipe zoned system designed for Heat **Pump Operation**

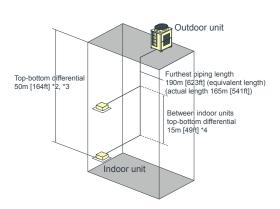
The CITY MULTI Y series (for large applications) make use of a two-pipe refrigerant system, which allows for system changeover from cooling to heating, ensuring that a constant indoor climate is maintained in all zones. The compact outdoor unit utilizes R410A refrigerant and an INVERTER-driven compressor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

Large Offices (Y series)



[8-54HP (Y series)] [8-54HP (High COP Y 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]*1
Vertical differentials between units	Maximum meters [Feet]
Indoor/outdoor (outdoor higher)	50 [164]*2
Indoor/outdoor (outdoor lower) · · · ·	40 [131]*3
Indoor/indoor · · · · · · · · · · · · · · · · · ·	15 [49]*4



- *1 90m [295ft] is available. When the piping length exceeds 40m [131ft], use one size larger liquid pipe starting with the section of piping where 40m [131ft] is exceeded and all piping after that point.
 *2 90m [295ft] is available depending on the model and installation conditions. For more detailed information, contact your local distributor.
 *3 60m [196ft] is available depending on the model and installation conditions. For more detailed information, contact your local distributor.
 *4 30m [98ft] is available. If the height difference between indoor units exceeds 15m [49ft] (but does not exceed 30m [98ft]), use one-size larger pipes for indoor unit liquid pipes.



R2 (Heat Recovery) series



Simultaneous Cooling and Heating

R2 series — PURY-P YSLM-A(-BS)

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

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

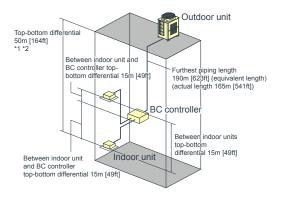
CITY MULTI R2 series offers the ultimate in freedom and flexibility. Cool one zone while heating another. Our exclusive BC controller makes two-pipe simultaneous cooling and heating possible. The BC controller is the technological heart of the CITY MULTI R2 series. It houses a liquid and gas separator,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

This innovation results in 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

Office Installation image (R2 series) Refrigerant piping: 2-pipe type **System Pipe Lengths**

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

Refrigerant Piping Lengths Maximum Total length 550 [1,804 ((E)P600, 650 only)	
Total length······· 700 [2,296 ((E)P700, 750, 800, 850, 900 only)]
Maximum allowable length······ 165 (1906) [541(623	
Maximum length between outdoor	
and single/main BC controller ······ 110 [360]	
*Maximum total length is dependent upon the	ne distance
between the outdoor unit and the single Controller.	e/main BC
Maximum length between single/main	
BC controller and indoor · · · · · 40-60 [13	1-196]
Vertical differentials between units Maximum	neters [Feet]
Indoor/outdoor (outdoor higher)····· 50 [164]*:	2
Indoor/outdoor (outdoor lower)····· 40 [131]*:	2
Indoor/BC controller (single/main) · · · 15 [49]	
*Maximum length between single/main BC and indoor is dependent upon the vertical between the single/main BC controller and unit.	differential
Indoor/indoor 15 [49]	
Main BC Controller/Sub BC Controller··· 15 [49]	



^{*11} When the outdoor unit is installed below the indoor unit, top-bottom differential is 40m [131ft].

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



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

Compact Design Industry Leading Weight Saving

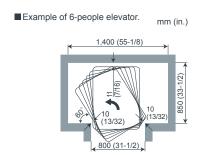
The manageability of the outdoor unit has been improved due to a drastic reduction in its weight, leading to easy transportation, installation, and reduction in withstand load.



Industry Leading Space Saving

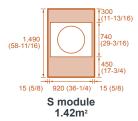
The downsized outdoor unit can be transported through a 800 mm wide door.

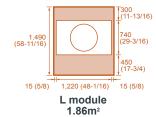


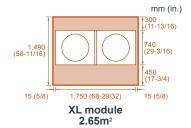


Effective Use of Space

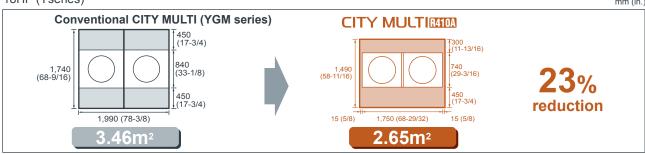
The new models have a smaller foot print and service space requirement than previous models.







18HP (Yseries) mm (in.)





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.

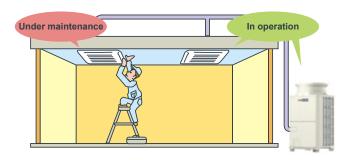


Based on 10HP model

Easy Maintenance

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

- * Not applicable to all situations.
- Be sure to turn off the power to the indoor unit when repairing or servicing the unit



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



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

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

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

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

60Pa High Static Pressure as standard

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

System Check

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



Advanced Energy-saving Technologies



S series | PUMY-P VKM | PUMY-P YKM

Highly efficient fan and grille for outdoor unit

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

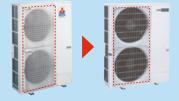
Outdoor unit fan opening increased

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

Opening increased from 490 to 550mm in diameter

Grille shape changed

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



PUMY-P V/YHMB PUMY-P V/

Inflexed fan

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



Highly efficient heat exchanger

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

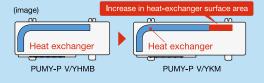
High-density heat exchanger

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

Heat-exchange surface area increased

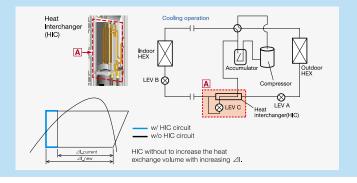
Heat exchanger size extended horizontally, increasing the surface area.

2 lines, 52 columns 2 lines, 64 columns



Heat Interchanger (HIC) Added

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



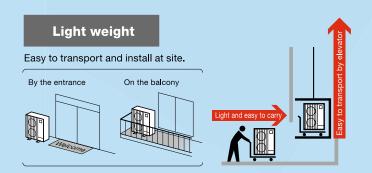


Outdoor Unit



Demand Response Capable

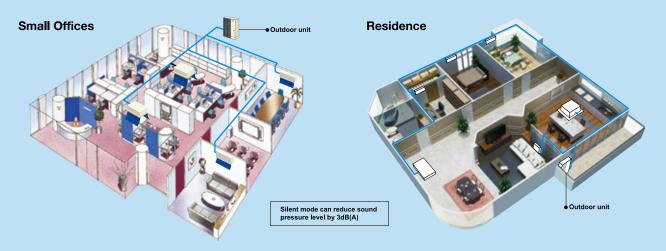
Demand Response mode is activated in response to signals sent from the electric power company at times when it is necessary to reduce peak demand.



The two-pipe zoned system designed for Heat **Pump Operation**

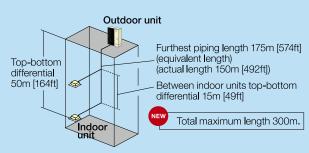
The CITY MULTI S series (for small applications) make use of a two-pipe refrigerant system, which allows for system changeover from cooling to heating, ensuring that a constant indoor climate is maintained in all zones. The compact outdoor unit utilizes R410A refrigerant and an INVERTER-driven compressor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

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



[P112~140(V/YKM)]

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



Water Cooled Series



Cooling or Heating

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

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

[WY(Heat Pump) series]

Water energy source system allows switching between cooling and heating.

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

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

Installation image (WY series)



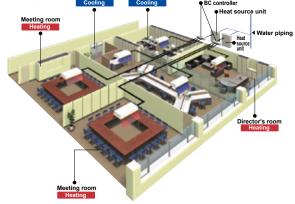
[WR2(Heat Recovery) series]

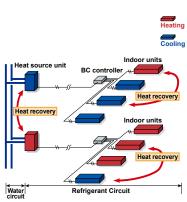
Advanced water heat source unit enjoying the benefits of R2 series

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

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







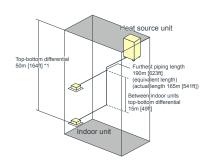
Double heat recovery (WR2)



System Pipe Lengths

[8-36HP (WY series)]

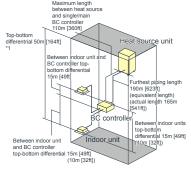
Refrigerant Piping Lengths	Maximum meters [Feet]
Total length (8-12HP)·····	300 [984]
Total length (16-36HP)······	500 [1,640]
Maximum allowable length·····	165 (190equivalent) [541 (623)]
Farthest indoor from first branch · · · · · · · · · · · · · · · · · · ·	40 [131]
Vertical differentials between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



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

[8-24HP (WR2 series)]

Maximum meters [Feet] 300-550 [984-1,804]
500-350 [364-1,664]
165 (190equivalent) [541 (623)]
110 [360]
40-60 [131-196]
Maximum meters [Feet]
50 [164]
40 [131]
15 [49]
15 (10) [49 (32)]
15 (10) [49 (32)]



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

COP comparison (energy efficiency)

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

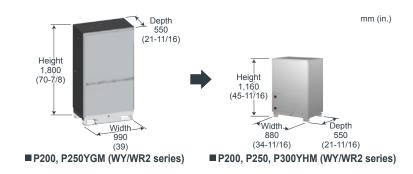
COP comparison

00. 00																
		HP	8	10	12	16	18	20	22	24	26	28	30	32	34	36
	YGM	Cooling	4.68	4.71	-	3.96	-	3.72	-	-	-	-	-	-	-	-
DOLLY		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
	I I IIVI	Heating	6.06	5.43	4.60	5.78	5.37	5.22	4.70	4.46	5.52	5.33	5.19	4.82	4.65	4.40
	YGM	Cooling	4.68	4.71	-	3.96	-	3.72	-	-	-	-	-	-	-	-
PQRY	f GIVI	Heating	5.33	5.43	-	4.54	-	4.63	-	-	-	-	-	-	-	-
PQRT	YHM	Cooling	5.65	5.08	4.50	5.40	5.03	4.84	4.63	4.41	-	-	-	-	-	-
	I CIIVI	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	Weight comparison unit: kg														unit : kg
	F	HP 8	10	12	16	18	20	22	24	26	28	30	32	34	36
PQHY	YGM	272	275	-	452	-	456	-	-	-	-	-	-	-	-
FUNT	YHM	195	195	195	390	390	390	390	390	585	585	585	585	585	585
PQRY	YGM	263	266	-	440	-	444	-	-	-	-	-	-	-	-
PQRT	YHM	181	181	181	362	362	362	362	362	-	-	-	-	-	-

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



► Specifications

Model			PUMY-P112VKM-A (-BS)	PUMY-P125VKM-A (-BS)	PUMY-P140VKM-A (-BS)		
Power source			1-phase 230V 50Hz	1-phase 230V 50Hz	1-phase 230V 50Hz		
Cooling capacity	*1	kW	12.5	14.0	15.5		
(Nominal)	*1	BTU / h	42.700	47.800	52,900		
,	Power input	kW	2.79	3.46	4.52		
	Current input	Α	12.32	15.27	19.95		
	AEER/EER	kW / kW	4.13/4.48	3.76/4.05	3.22/3.43		
Temp. range of	Indoor temp.	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)		
cooling	Outdoor temp.	D.B.	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)		
Heating capacity	*2		14.0	16.0	18.0		
(Nominal)		BTU / h	47,800	54,600	61,400		
(* ************************************	Power input	kW	3.13	3.74	4.47		
	Current input	A	13.82	16.51	19.73		
	ACOP/COP	kW / kW	4.20/4.47	4.03/4.28	3.81/4.03		
Temp. range of	Indoor temp.	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)		
heating	Outdoor temp.	W.B.	-20.0°C(-4°F)	-20.0°C(-4°F)	-20.0°C(-4°F)		
Indoor unit	Total capacity	**.0.	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 aned		dB <a>	49/51	50/52	51/54		
Refrigerant piping	Liquid pipe	mm (in.)	9.52(3/8) Flare	9.52(3/8) Flare	9.52(3/8) Flare		
diameter	Gas pipe	mm (in.)	15.88(5/8) Flare	15.88(5/8) Flare	15.88(5/8) Flare		
FAN	Type x Quantity		Propeller Fan x 2	Propeller Fan x 2	Propeller Fan x 2		
	Air flow rate m³/mi		110	110	120		
		L/s	1,833	1,833	2,000		
		cfm	3,884	3,884	4,237		
	Motor output	kW	0.06 + 0.06	0.06 + 0.06	0.06 + 0.06		
Compressor	Type x Quantity		Scroll hermetic compressor x 1	Scroll hermetic compressor x 1	Scroll hermetic compressor x 1		
·	Starting method		Inverter	Inverter	Inverter		
	Motor output	kW	3.0	3.5	4.0		
External finish			Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1	Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1	Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1		
External dimensio	n HxWxD	mm	1,338 x 1,050 x 330 (+25)	1,338 x 1,050 x 330 (+25)	1,338 x 1,050 x 330 (+25)		
		in.	52-11/16 x 41-11/32 x 13 (+1)	52-11/16 x 41-11/32 x 13 (+1)	52-11/16 x 41-11/32 x 13 (+1)		
Protection	High pressure pr		High pressure Switch	High pressure Switch	High pressure Switch		
devices Inverter circuit (MP./FAN)	Overcurrent detection, Overheat detection (Heatsink thermistor)	Overcurrent detection, Overheat detection (Heatsink thermistor)	Overcurrent detection, Overheat detection (Heatsink thermistor)		
	Compressor		Compressor thermistor, Over current detection	Compressor thermistor, Over current detection	Compressor thermistor, Over current detection		
	Fan motor		Overheating, Voltage protection	Overheating, Voltage protection	Overheating, Voltage protection		
Refrigerant	Type x original ch	narge	R410A 4.8kg	R410A 4.8kg	R410A 4.8kg		
Net weight		kg (lbs)	123(272)	123(272)	123(272)		
Heat exchanger			Plate fin coil	Plate fin coil	Plate fin coil		
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		
' '			Header: CMY-Y64/68-G-E	Header: CMY-Y64/68-G-E	Header: CMY-Y64/68-G-E		

٠,	2 Nominal conditio	113			
		Indoor	Outdoor	Pipe length	Level difference
	Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

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



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

► Specifications

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

1, 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.)					

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

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



► Specifications

Model			PUHY-P200YKB-A (-BS)	PUHY-P250YKB-A (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	22.4	28.0
(Nominal)	*1	BTU / h	76,400	95,500
(* ************************************	Power input	kW	6.12	8.09
	Current input	Α	10.3-9.8-9.4	13.6-12.9-12.5
		kW / kW	3.66	3.46
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling	Outdoor D.B		-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)
Heating capacity	*2		25.0	31.5
(Nominal)		BTU / h	85,300	107,500
(Power input	kW	6.15	8.33
	Current input	A	10.3-9.8-9.5	14.0-13.3-12.8
		kW / kW	4.06	3.78
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
heating	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit	Total capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
connectable	Model / Quantity		P15~P250/1~17	P15~P250/1~21
Sound pressure le (measured in anec	vel	dB <a>	57	59
Sound power leve (measured in aned	l	dB <a>	78	79
Refrigerant piping		mm (in.)	9.52 (3/8) Brazed	9.52 (3/8) Brazed (12.7 (1/2) Brazed, farthest length >= 90 m)
diameter	Gas pipe	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1
	Air flow rate	m³/min	175	175
		L/s	2,917	2,917
		cfm	6,179	6,179
	Driving mechanism		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
	Motor output kW		0.92 x 1	0.92 x 1
*3	External static press.		0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)
Compressor	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter
	Motor output	kW	5.5	6.9
	Case heater	kW	-	-
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>
External dimension	n HxWxD	mm	1,710 (1,650 without legs) x 920 x 740	1,710 (1,650 without legs) x 920 x 740
		in.	67-3/8 (65 without legs) x 36-1/4 x 29-3/16	67-3/8 (65 without legs) x 36-1/4 x 29-3/16
Protection	High pressure pro	otection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
devices	Inverter circuit (CO	MP./FAN)	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection
	Fan motor		Over-current protection	Over-current protection
Refrigerant	Type x original charge		R410A x 6.5 kg (15 lbs)	R410A x 8.0 kg (18 lbs)
Net weight		kg (lbs)	190 (419)	199 (439)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
Optional parts			Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G	Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G

1, 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/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)					
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)					

^{*3} External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).
*Nominal condition *1,*2 are subject to JIS B8615-1.
*Due to continuing improvement, above specification may be subject to change without notice.



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

► Specifications

Model			PUHY-P300YKB-A (-BS)	PUHY-P350YKB-A (-BS)	
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity	*1	kW	33.5	40.0	
(Nominal)	*1	BTU / h	114,300	136,500	
,	Power input	kW	9.49	11.79	
	Current input	Α	16.0-15.2-14.6	19.9-18.9-18.2	
	EER	kW / kW	3.53	3.39	
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	
cooling	Outdoor	D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	
Heating capacity	*2	kW	37.5	45.0	
(Nominal)	*2	BTU / h	128,000	153,500	
,	Power input	kW	9.89	13.23	
	Current input	Α	16.6-15.8-15.2	22.3-21.2-20.4	
	COP	kW / kW	3.79	3.40	
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	
heating	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)	
Indoor unit	Total capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	
connectable	Model / Quantity		P15~P250/1~26	P15~P250/1~30	
Sound pressure le					
(measured in ane		dB <a>	61	61	
Sound power leve					
(measured in ane			83	83	
Refrigerant piping		mm (in.)	9.52 (3/8) Brazed (12.7 (1/2) Brazed, farthest length >= 40 m)	12.7 (1/2) Brazed	
diameter	Gas pipe	mm (in.)	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	
	Air flow rate	m³/min	210	210	
		L/s	3,500	3,500	
		cfm	7.415	7.415	
	Driving mechanism		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	
	Motor output kW		0.92 x 1	0.92 x 1	
*3	External static press.		0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	
	Starting method		Inverter	Inverter	
	Motor output	kW	8.1	10.5	
	Case heater	kW	_	_	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>	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 740	1,710 (1,650 without legs) x 1,220 x 740	
		in.	67-3/8 (65 without legs) x 48-1/16 x 29-3/16	67-3/8 (65 without legs) x 48-1/16 x 29-3/16	
Protection High pressure protection		tection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
devices	Inverter circuit (CO		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	
	Fan motor		Over-current protection	Over-current protection	
Refrigerant	Type x original ch	arge	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	
Net weight		kg (lbs)	251 (554)	251 (554)	
Heat exchanger		5/	Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & copper tube	
Optional parts			Joint: CMY-Y102SS/LS-G2	Joint: CMY-Y102SS/LS-G2.CMY-Y202S-G2	
			Header: CMY-Y104/108/1010-G	Header: CMY-Y104/108/1010-G	

1, 2 Norminal Conditions									
		Indoor	Outdoor	Pipe length	Level difference				
	Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)				
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)				



^{*3} External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O). *Nominal condition *1,*2 are subject to JIS B8615-1. *Due to continuing improvement, above specification may be subject to change without notice.

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



► Specifications

Model			PUHY-P400YSKB-A (-BS)	PUHY-P450YSKB-A (-BS)	PUHY-P500YSKB-A (-BS)
Power source		3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity	*1	kW	45.0	50.0	56.0
(Nominal)	*1	BTU / h	153,500	170,600	191,100
	Power input	kW	12.96	14.74	16.91
	Current input	Α	21.8-20.7-20.0	24.8-23.6-22.7	28.5-27.1-26.1
	EER	kW / kW	3.47	3.39	3.31
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling	Outdoor	D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)
Heating capacity	*2	kW	50.0	56.0	63.0
(Nominal)	*2	BTU / h	170,600	191,100	215,000
	Power input	kW	12.98	15.05	17.54
	Current input	Α	21.9-20.8-20.0	25.4-24.1-23.2	29.6-28.1-27.1
	COP	kW / kW	3.85	3.72	3.59
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)
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~P250/1~34	P15~P250/1~39	P15~P250/1~43
Sound pressure le	vel dB <a>		60	61.5	62
(measured in ane	choic room)	ub \A>	00	01.5	02
Sound power level		dB <a>	81	82	82
(measured in ane		ub \A>		02	62
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-P200YKB-A (-BS)	PUHY-P200YKB-A (-BS)	PUHY-P200YKB-A (-BS)	PUHY-P250YKB-A (-BS)	PUHY-P250YKB-A (-BS)	PUHY-P250YKB-A (-BS)	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1				
	Air flow rate	m³/min	175	175	175	175	175	175	
		L/s	2,917	2,917	2,917	2,917	2,917	2,917	
		cfm	6,179	6,179	6,179	6,179	6,179	6,179	
	Driving mechanis	m	Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	
*3	External static pro	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)				
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	5.5	5.5	5.5	6.9	6.9	6.9	
	Case heater	kW	_	_	-	-	_	_	
External finish	External finish		(+powder coating for -BS type) (+powder		(+powder coati	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>	
External dimension	n HxWxD	mm	1,710 (1,650 without legs) x 920 x 740	1,710 (1,650 without legs) x 920 x 740	1,710 (1,650 without legs) x 920 x 740	1,710 (1,650 without legs) x 920 x 740	1,710 (1,650 without legs) x 920 x 740	1,710 (1,650 without legs) x 920 x 740	
		in.	67-3/8 (65 without legs) x 36-1/4 x 29-3/16	67-3/8 (65 without legs) x 36-1/4 x 29-3/16	67-3/8 (65 without legs) x 36-1/4 x 29-3/16	67-3/8 (65 without legs) x 36-1/4 x 29-3/16	67-3/8 (65 without legs) x 36-1/4 x 29-3/16	67-3/8 (65 without legs) x 36-1/4 x 29-3/16	
Protection	High pressure protection		High pressure sensor	, High pressure switch	High pressure sensor	High pressure switch	High pressure sensor	, High pressure switch	
devices			at 4.15 MPa (601 psi)		at 4.15 MPa (601 psi)		at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection,	Over-current protection	Over-heat protection, (Over-current protection	Over-heat protection,	Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	
	Fan motor		Over-current protection	Over-current protection	Over-current protection	Over-current protection	Over-current protection	Over-current protection	
Refrigerant	Type x original ch	narge	R410A x 6.5 kg (15 lbs)	R410A x 6.5 kg (15 lbs)	R410A x 6.5 kg (15 lbs)	R410A x 8.0 kg (18 lbs)	R410A x 8.0 kg (18 lbs)	R410A x 8.0 kg (18 lbs)	
Net weight		kg (lbs)	190 (419)	190 (419)	190 (419)	199 (439)	199 (439)	199 (439)	
Heat exchanger		Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube		
Pipe between unit	Liquid pipe	mm (in.)	9.52 (3/8) Brazed	9.52 (3/8) Brazed	9.52 (3/8) Brazed	9.52 (3/8) Brazed	9.52 (3/8) Brazed	9.52 (3/8) Brazed	
and distributor	Gas pipe	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	
Optional parts			Outdoor Twinning k	it: CMY-Y100VBK3	Outdoor Twinning k	it: CMY-Y100VBK3	Outdoor Twinning k	it: CMY-Y100VBK3	
			Joint: CMY-Y		Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2		Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2		
			CMY-Y2	202S/302S-G2					
		Header: CMY-Y104/108/1010-G		Header: CMY-Y104/108/1010-G		Header: CMY-Y104/108/1010-G			

1, 2 Nominal Conditions									
		Indoor	Outdoor	Pipe length	Level difference				
	Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)				
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)				

^{*3} External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O). *Nominal condition *1,*2 are subject to JIS B8615-1. *Due to continuing improvement, above specification may be subject to change without notice.







► Specifications

Model			PUHY-P550YSKB-A (-BS)	PUHY-P600YSKB-A (-BS)	PUHY-P650YSKB-A (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity *1		kW	63.0	69.0	73.0
(Nominal)		BTU / h	215,000	235,400	249,100
	Power input	kW	18.91	21.16	22.25
	Current input	Α	31.9-30.3-29.2	35.7-33.9-32.7	37.5-35.6-34.3
	EER	kW / kW	3.33	3.26	3.28
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling	Outdoor	D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)
Heating capacity	*2	kW	69.0	76.5	81.5
(Nominal)	*2 BTU / I		235,400	261,000	278,100
	Power input	kW	19.22	22.43	23.90
	Current input	Α	32.4-30.8-29.7	37.8-35.9-34.6	40.3-38.3-36.9
	COP	kW / kW	3.59	3.41	3.41
Temp. range of	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~P250/2~47	P15~P250/2~50	P15~P250/2~50
Sound pressure le (measured in ane		dB <a>	63.5	63.5	64
Sound power leve (measured in ane		dB <a>	84.5	84.5	86
Refrigerant piping	Liquid pipe	mm (in.)	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed
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				·	·

Set Model								
Model			PUHY-P250YKB-A (-BS)	PUHY-P300YKB-A (-BS)	PUHY-P250YKB-A (-BS)	PUHY-P350YKB-A (-BS)	PUHY-P300YKB-A (-BS)	PUHY-P350YKB-A (-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m³/min	175	210	175	210	210	210
		L/s	2,917	3,500	2,917	3,500	3,500	3,500
		cfm	6,179	7,415	6,179	7,415	7,415	7,415
	Driving mechanis	m	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 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	6.9	8.1	6.9	10.5	8.1	10.5
	Case heater	kW	-	-	-	-	-	-
External finish	External finish			nized steel sheets ng for -BS type) ' 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>	
External dimension	n HxWxD	mm	1,710 (1,650 without legs) x 920 x 740	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 920 x 740	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,220 x 740
		in.	67-3/8 (65 without legs) x 36-1/4 x 29-3/16	67-3/8 (65 without legs) x 48-1/16 x 29-3/16	67-3/8 (65 without legs) x 36-1/4 x 29-3/16	67-3/8 (65 without legs) x 48-1/16 x 29-3/16	67-3/8 (65 without legs) x 48-1/16 x 29-3/16	67-3/8 (65 without legs) x 48-1/16 x 29-3/16
Protection	High pressure pre	otection	High pressure sensor	High pressure switch	High pressure sensor	High pressure switch	High pressure sensor	, High pressure switch
devices			at 4.15 MF	a (601 psi)	at 4.15 MPa (601 psi)		at 4.15 MPa (601 psi)	
	Inverter circuit (CO	MP./FAN)	Over-heat protection,	Over-current protection	Over-heat protection, (Over-current protection	Over-heat protection,	Over-current protection
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
	Fan motor		Over-current protection	Over-current protection	Over-current protection	Over-current protection	Over-current protection	Over-current protection
Refrigerant	Type x original ch	narge	R410A x 8.0 kg (18 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 8.0 kg (18 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)
Net weight		kg (lbs)	199 (439)	251 (554)	199 (439)	251 (554)	251 (554)	251 (554)
Heat exchanger			Salt-resistant 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	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	28.58 (1-1/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed
Optional parts			Outdoor Twinning I	it: CMY-Y100VBK3	Outdoor Twinning k	it: CMY-Y100VBK3	Outdoor Twinning I	kit: CMY-Y100VBK3
			Joint: CMY-Y		Joint: CMY-Y			102SS/LS-G2,
				202S/302S-G2	CMY-Y2	202S/302S-G2	CMY-Y2	202S/302S-G2
			Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-G

٠,	, 2 Notified Conditions									
		Indoor	Outdoor	Pipe length	Level difference					
	Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)					
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)					

^{*3} External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).
*Nominal condition *1,*2 are subject to JIS B8615-1.
*Due to continuing improvement, above specification may be subject to change without notice.



► Specifications

Model			PUHY-P700YSKB-A (-BS)	PUHY-P750YSKB-A (-BS)	PUHY-P800YSKB-A (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	80.0	85.0	90.0
(Nominal)	*1	BTU / h	273,000	290,000	307,100
	Power input	kW	24.84	27.68	29.50
	Current input	Α	41.9-39.8-38.3	46.7-44.3-42.7	49.8-47.3-45.6
	EER	kW / kW	3.22	3.07	3.05
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling	Outdoor	D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)
Heating capacity	*2	kW	88.0	95.0	100.0
(Nominal)	*2 BTU / h		300,300	324,100	341,200
	Power input	kW	27.24	29.68	31.54
	Current input	Α	45.9-43.6-42.1	50.1-47.5-45.8	53.2-50.5-48.7
	COP	kW / kW	3.23	3.20	3.17
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)
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~P250/2~50	P15~P250/2~50	P15~P250/2~50
Sound pressure le (measured in ane		dB <a>	64	65.5	67.5
Sound power level (measured in anechoic room)		dB <a>	86	86	87.5
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.)	34.93 (1-3/8) Brazed	34.93 (1-3/8) Brazed	34.93 (1-3/8) Brazed
Set Model					

Set Model								
Model			PUHY-P350YKB-A (-BS)	PUHY-P350YKB-A (-BS)	PUHY-P350YKB-A (-BS)	PUHY-P400YKB-A (-BS)	PUHY-P350YKB-A (-BS)	PUHY-P450YKB-A (-BS
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2
	Air flow rate	m³/min	210	210	210	210	210	360
		L/s	3,500	3,500	3,500	3,500	3,500	6,000
		cfm	7,415	7,415	7,415	7,415	7,415	12,712
	Driving mechanis	sm	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 2
*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	10.5	10.5	10.5	10.8	10.5	12.4
	Case heater	kW	_	-	-	-	-	0.045
External finish				nized steel sheets ng for -BS type) ' 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) (+powder coating for -MUNSELL 5Y 8/1 or similar> Pre-coated galvanized (+powder coating for -MUNSELL 5Y 8/1 or similar>		ng for -BS type)	
External dimension	n HxWxD	mm	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,750 x 740
		in.	67-3/8 (65 without legs) x 48-1/16 x 29-3/16	67-3/8 (65 without legs) x 48-1/16 x 29-3/16	67-3/8 (65 without legs) x 48-1/16 x 29-3/16	67-3/8 (65 without legs) x 48-1/16 x 29-3/16	67-3/8 (65 without legs) x 48-1/16 x 29-3/16	67-3/8 (65 without legs x 68-15/16 x 29-3/16
Protection	High pressure pre	otection		High pressure switch		, High pressure switch	High pressure sensor	
devices				a (601 psi)	at 4.15 MP		at 4.15 MPa (601 psi)	
	Inverter circuit (CO	MP./FAN)		Over-current protection	Over-heat protection, (Over-heat protection,	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
	Fan motor		Over-current protection	Over-current protection	Over-current protection	Over-current protection	Over-current protection	Over-current protection
Refrigerant	Type x original ch	narge	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.8 kg (27 lbs)
Net weight		kg (lbs)	251 (554)	251 (554)	251 (554)	251 (554)	251 (554)	304 (671)
Heat exchanger			Salt-resistant cros	s fin & copper tube	Salt-resistant 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	12.7 (1/2) Brazed	15.88 (5/8) Brazed
and distributor	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Optional parts			Outdoor Twinning I	kit: CMY-Y200VBK2	Outdoor Twinning k	kit: CMY-Y200VBK2	Outdoor Twinning I	kit: CMY-Y200VBK2
			Joint: CMY-Y		Joint: CMY-Y		Joint: CMY-Y	102SS/LS-G2, 202S/302S-G2
				104/108/1010-G		104/108/1010-G		104/108/1010-G

١,	, 2 Norminal conditions										
		Indoor	Outdoor Pipe lengt		Level difference						
	Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)						
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)						

^{*3} External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O). *Nominal condition *1,*2 are subject to JIS B8615-1. *Due to continuing improvement, above specification may be subject to change without notice.







► Specifications

Model			PUHY-P850YSKB-A (-BS)	PUHY-P900YSKB-A (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity *1 kW		kW	96.0	101.0
(Nominal)	*1	BTU / h	327,600	344,600
	Power input	kW	33.10	35.06
	Current input	Α	55.8-53.0-51.1	59.1-56.2-54.1
	EER	kW / kW	2.90	2.88
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling	Outdoor	D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)
Heating capacity	*2	kW	108.0	113.0
(Nominal)	*2	BTU / h	368,500	385,600
	Power input	kW	34.28	36.21
	Current input	Α	57.8-54.9-52.9	61.1-58.0-55.9
	COP	kW / kW	3.15	3.12
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
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~P250/2~50	P15~P250/2~50
Sound pressure le (measured in ane		dB <a>	68	69
Sound power level (measured in anechoic room)		dB <a>	87.5	88
Refrigerant piping	Liquid pipe	mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed
diameter Gas pipe		mm (in.)	41.28 (1-5/8) Brazed	41.28 (1-5/8) Brazed
Set Model			,	

Set Model							
Model			PUHY-P400YKB-A (-BS)	PUHY-P450YKB-A (-BS)	PUHY-P450YKB-A (-BS)	PUHY-P450YKB-A (-BS)	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	
	Air flow rate	m³/min	210	360	360	360	
		L/s	3,500	6,000	6,000	6,000	
		cfm	7,415	12,712	12,712	12,712	
	Driving mechanis	sm	Inverter-control, Direct-driven by motor Inverter-control, Direct-driven b		ect-driven by motor		
	Motor output	kW	0.92 x 1	0.92 x 2	0.92 x 2	0.92 x 2	
*3	External static pr	ess.	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	10.8	12.4	12.4	12.4	
	Case heater	kW	_	0.045	0.045	0.045	
External finish			Pre-coated galvar	nized steel sheets	Pre-coated galvanized steel sheets		
			(+powder coati	ng 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></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	mm	1,710 (1,650 without legs) x	1,710 (1,650 without legs) x	1,710 (1,650 without legs) x	1,710 (1,650 without legs) x	
		111111	1,220 x 740	1,750 x 740	1,750 x 740	1,750 x 740	
		in.	67-3/8 (65 without legs) x	67-3/8 (65 without legs) x	67-3/8 (65 without legs) x	67-3/8 (65 without legs) x	
		111.	48-1/16 x 29-3/16	68-15/16 x 29-3/16	68-15/16 x 29-3/16	68-15/16 x 29-3/16	
Protection	High pressure pr	otection	High pressure sensor, High press	sure switch at 4.15 MPa (601 psi)			
devices	Inverter circuit (CO	MP./FAN)	Over-heat protection, 0	Over-current protection	Over-heat protection,	Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	
	Fan motor		Over-current protection	Over-current protection	Over-current protection	Over-current protection	
Refrigerant	Type x original ch	narge	R410A x 11.5 kg (26 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	
Net weight		kg (lbs)	251 (554)	304 (671)	304 (671)	304 (671)	
Heat exchanger			Salt-resistant cross	s fin & copper tube	Salt-resistant cros	s fin & copper tube	
Pipe between unit	Liquid pipe	mm (in.)	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	
and distributor	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	
Optional parts			Outdoor Twinning k	kit: CMY-Y200VBK2	Outdoor Twinning I	kit: CMY-Y200VBK2	
			Joint: CMY-Y102SS/LS-G			62, CMY-Y202S/302S-G2	
			Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-G	

٠,	, 2 Notified Conditions									
		Indoor	Outdoor	Pipe length	Level difference					
	Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)					
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)					

^{*3} External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O). *Nominal condition *1,*2 are subject to JIS B8615-1. *Due to continuing improvement, above specification may be subject to change without notice.



► Specifications

Model			PUHY-P950YSKB-A (-BS)	PUHY-P1000YSKB-A (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	108.0	113.0
(Nominal)	*1	BTU / h	368,500	385,600
	Power input	kW	33.85	35.20
	Current input	Α	57.1-54.2-52.3	59.4-56.4-54.4
	EER	kW / kW	3.19	3.21
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling	Outdoor	D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)
Heating capacity	*2	kW	119.5	127.0
(Nominal)	*2	BTU / h	407,700	433,300
	Power input	kW	34.63	36.70
	Current input	Α	58.4-55.5-53.5	61.9-58.8-56.7
	COP	kW / kW	3.45	3.46
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
heating	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
ndoor unit	Total capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
connectable	Model / Quantity		P15~P250/2~50	P15~P250/2~50
Sound pressure le (measured in ane		dB <a>	66.5	66.5
Sound power leve (measured in ane		dB <a>	87	88
Refrigerant piping	Liquid pipe	mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed
diameter	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed	41.28 (1-5/8) Brazed

Set Model									
Model			PUHY-P250YKB-A (-BS)	PUHY-P300YKB-A (-BS)	PUHY-P400YKB-A (-BS)	PUHY-P300YKB-A (-BS)	PUHY-P300YKB-A (-BS)	PUHY-P400YKB-A (-BS)	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	
	Air flow rate	m³/min	175	210	210	210	210	210	
		L/s	2,917	3,500	3,500	3,500	3,500	3,500	
		cfm	6,179	7,415	7,415	7,415	7,415	7,415	
	Driving mechanis	sm	Inverter-	-control, Direct-driven I	by motor	Inverter	-control, Direct-driven I	by motor	
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	
*3	External static pr	ess.	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	
Compressor	Type x Quantity		Inverte	er scroll hermetic comp	ressor	Inverte	er scroll hermetic comp	ressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	6.9	8.1	10.8	8.1	8.1	10.8	
	Case heater	kW	-	-	-	-	-	-	
External finish			Pre-co	ated galvanized steel	sheets	Pre-coated galvanized steel sheets			
				owder coating for -BS t		(+powder coating for -BS type)			
			<mi< td=""><td>JNSELL 5Y 8/1 or sim</td><td>lar></td><td><mi< td=""><td colspan="3"><munsell 1="" 5y="" 8="" or="" similar=""></munsell></td></mi<></td></mi<>	JNSELL 5Y 8/1 or sim	lar>	<mi< td=""><td colspan="3"><munsell 1="" 5y="" 8="" or="" similar=""></munsell></td></mi<>	<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 920 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	
		in.	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)	
		111.	x 36-1/4 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	
Protection	High pressure pre			, High pressure switch			, High pressure switch		
devices	Inverter circuit (CO	MP./FAN)		protection, Over-currer			protection, Over-currer		
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	
	Fan motor			Over-current protection	Over-current protection		Over-current protection		
Refrigerant	Type x original ch		R410A x 8.0 kg (18 lbs)			R410A x 11.5 kg (26 lbs)		R410A x 11.5 kg (26 lbs)	
Net weight		kg (lbs)	199 (439)	251 (554)	251 (554)	251 (554)	251 (554)	251 (554)	
Heat exchanger		Salt-res	sistant cross fin & copp		Salt-re:	sistant cross fin & copp	er tube		
Pipe between unit	Liquid pipe	mm (in.)	9.52 (3/8) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed	
and distributor	Gas pipe	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	
Optional parts				Twinning kit: CMY-Y3			Twinning kit: CMY-Y3		
				102SS/LS-G2, CMY-Y			102SS/LS-G2, CMY-Y		
		Head	der: CMY-Y104/108/10	10-G	Head	der: CMY-Y104/108/10	10-G		

١,	2 Nonlinal Conditions										
		Indoor	Outdoor	Pipe length	Level difference						
	Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)						
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)						

^{*3} External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O). *Nominal condition *1,*2 are subject to JIS B8615-1. *Due to continuing improvement, above specification may be subject to change without notice.





► Specifications

Model			PUHY-P1050YSKB-A (-BS)	PUHY-P1100YSKB-A (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	118.0	124.0
(Nominal)	*1	BTU / h	402,600	423,100
	Power input	kW	37.34	39.74
	Current input	Α	63.0-59.8-57.7	67.0-63.7-61.4
	EER	kW / kW	3.16	3.12
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling	Outdoor	D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)
Heating capacity	*2	kW	132.0	140.0
(Nominal)	*2	BTU / h	450,400	477,700
(/	Power input	kW	39.63	43.61
	Current input	Α	66.9-63.5-61.2	73.6-69.9-67.4
	COP	kW / kW	3.33	3.21
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
heating	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
ndoor unit	Total capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
connectable	Model / Quantity		P15~P250/2~50	P15~P250/2~50
Sound pressure le	evel	dB <a>	00.5	00.5
(measured in ane	choic room)	ub <a>	66.5	66.5
Sound power leve	:	dB <a>	88	88
measured in ane	choic room)	ub <a>	08	88
Refrigerant piping	Liquid pipe	mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed
diameter	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed	41.28 (1-5/8) Brazed

Set Model			•						
Model			PUHY-P300YKB-A (-BS)	PUHY-P350YKB-A (-BS)	PUHY-P400YKB-A (-BS)	PUHY-P350YKB-A (-BS)	PUHY-P350YKB-A (-BS)	PUHY-P400YKB-A (-BS)	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	
	Air flow rate	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	m	Inverter-	-control, Direct-driven b	by motor	Inverter	-control, Direct-driven I	by motor	
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	
*3	External static pro	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	
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	8.1	10.5	10.8	10.5	10.5	10.8	
	Case heater	kW	-	-	-	-	-	_	
External finish			Pre-co	ated galvanized steel	sheets	Pre-coated galvanized steel sheets			
			(+powder coating for -BS type)			(+powder coating for -BS type)			
			<munsell 1="" 5y="" 8="" or="" similar=""></munsell>			<munsell 1="" 5y="" 8="" or="" similar=""></munsell>			
External dimension	n HxWxD	mm	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without	
			legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	
		in.		67-3/8 (65 without legs)			67-3/8 (65 without legs)		
			x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	
Protection	High pressure pro			, High pressure switch		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
devices	Inverter circuit (CO	MP./FAN)	Over-heat p	protection, Over-curren	t protection	Over-heat	Over-heat protection, Over-current protection		
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	
	Fan motor				Over-current protection		Over-current protection		
Refrigerant	Type x original ch					R410A x 11.5 kg (26 lbs)		R410A x 11.5 kg (26 lbs)	
Net weight		kg (lbs)	251 (554)	251 (554)	251 (554)	251 (554)	251 (554)	251 (554)	
Heat exchanger		Salt-res	sistant cross fin & copp	er tube	Salt-re:	sistant cross fin & copp	er tube		
Pipe between unit	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed	
and distributor	Gas pipe	mm (in.)	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	
Optional parts				Twinning kit: CMY-Y3			Twinning kit: CMY-Y3		
				102SS/LS-G2, CMY-Y			102SS/LS-G2, CMY-Y		
			Head	der: CMY-Y104/108/10	10-G	Head	der: CMY-Y104/108/10	10-G	

٠,	, 2 Notified Conditions										
		Indoor	Indoor Outdoor Pipe length								
	Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)						
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)						

^{*3} External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O). *Nominal condition *1,*2 are subject to JIS B8615-1. *Due to continuing improvement, above specification may be subject to change without notice.



► Specifications

Model			PUHY-P1150YSKB-A (-BS)	PUHY-P1200YSKB-A (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	130.0	136.0
(Nominal)	*1	BTU / h	443,600	464,000
	Power input	kW	41.93	45.18
	Current input	A	70.7-67.2-64.8	76.2-72.4-69.8
	EER	kW / kW	3.10	3.01
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling	Outdoor	D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)
Heating capacity	*2	kW	145.0	150.0
(Nominal)	*2	BTU / h	494,700	511,800
(/	Power input	kW	45.45	47.31
	Current input	Α	76.7-72.8-70.2	79.8-75.8-73.1
	COP	kW / kW	3.19	3.17
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
heating	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit	Total capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
connectable	Model / Quantity		P15~P250/2~50	P15~P250/2~50
Sound pressure le	evel	dB <a>	68.5	69
(measured in ane	choic room)	ub <a>	00.5	69
Sound power level		dB <a>	88.5	88.5
(measured in ane	choic room)	ub <a>	00.5	88.5
Refrigerant piping	Liquid pipe	mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed
diameter	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed	41.28 (1-5/8) Brazed

Set Model			•					
Model			PUHY-P350YKB-A (-BS)	PUHY-P350YKB-A (-BS)	PUHY-P450YKB-A (-BS)	PUHY-P350YKB-A (-BS)	PUHY-P400YKB-A (-BS)	PUHY-P450YKB-A (-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 2	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2
	Air flow rate	m³/min	210	210	360	210	210	360
		L/s	3,500	3,500	6,000	3,500	3,500	6,000
		cfm	7,415	7,415	12,712	7,415	7,415	12,712
	Driving mechanis	sm	Inverter-	-control, Direct-driven b	by motor	Inverter	-control, Direct-driven I	by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 2	0.92 x 1	0.92 x 1	0.92 x 2
*3	External static pro	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)
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	10.5	10.5	12.4	10.5	10.8	12.4
	Case heater	kW	-	-	0.045	-	-	0.045
External finish			Pre-co	ated galvanized steel	sheets	Pre-coated galvanized steel sheets		
			(+powder coating for -BS type)			(+powder coating for -BS type)		
			<munsell 1="" 5y="" 8="" or="" similar=""></munsell>		<munsell 1="" 5y="" 8="" or="" similar=""></munsell>			
External dimension	n HxWxD	mm	1,710 (1,650 without		1,710 (1,650 without			1,710 (1,650 without
			legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,750 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,750 x 740
		in.		67-3/8 (65 without legs)			67-3/8 (65 without legs)	
			x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 68-15/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 68-15/16 x 29-3/16
Protection	High pressure pro			High pressure switch		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
devices	Inverter circuit (CO	MP./FAN)	Over-heat p	protection, Over-curren	t protection	Over-heat	protection, Over-currer	t protection
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
	Fan motor				Over-current protection		Over-current protection	
Refrigerant	Type x original ch					R410A x 11.5 kg (26 lbs)		R410A x 11.8 kg (27 lbs)
Net weight		kg (lbs)	251 (554)	251 (554)	304 (671)	251 (554)	251 (554)	304 (671)
Heat exchanger		Salt-res	sistant cross fin & copp	er tube	Salt-re:	sistant cross fin & copp	er tube	
Pipe between unit	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed
and distributor	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Optional parts				Twinning kit: CMY-Y3			Twinning kit: CMY-Y3	
				102SS/LS-G2, CMY-Y		Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2		
			Head	der: CMY-Y104/108/10	10-G	Head	der: CMY-Y104/108/10	10-G

٠,	, 2 Notified Conditions										
		Indoor	Indoor Outdoor Pipe length								
	Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)						
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)						

^{*3} External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).
*Nominal condition *1,*2 are subject to JIS B8615-1.
*Due to continuing improvement, above specification may be subject to change without notice.





► Specifications

Model			PUHY-P1250YSKB-A (-BS)	PUHY-P1300YSKB-A (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	140.0	146.0
(Nominal)	*1	BTU / h	477,700	498,200
	Power input	kW	46.82	50.51
	Current input	Α	79.0-75.0-72.3	85.2-81.0-78.0
	EER	kW / kW	2.99	2.89
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling	Outdoor	D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)
Heating capacity	*2	kW	156.5	163.0
(Nominal)	*2	BTU / h	534,000	556,200
,	Power input	kW	49.52	51.91
	Current input	Α	83.5-79.4-76.5	87.6-83.2-80.2
	COP	kW / kW	3.16	3.14
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
heating	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit	Total capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
connectable	Model / Quantity		P15~P250/2~50	P15~P250/2~50
Sound pressure le	evel	dB <a>	70	70
(measured in ane	choic room)	ub <a>	70	70
Sound power leve	:	dB <a>	89.5	89.5
(measured in ane	choic room)	ub <a>	09.5	89.5
Refrigerant piping	Liquid pipe	mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed
diameter	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed	41.28 (1-5/8) Brazed

diameter	Odo pipo	111111 (111.)		+1.20 (1-3/0) Diazed			+1.20 (1-3/0) DIAZCU	
Set Model								
Model			PUHY-P350YKB-A (-BS)	PUHY-P450YKB-A (-BS)	PUHY-P450YKB-A (-BS)	PUHY-P400YKB-A (-BS)	PUHY-P450YKB-A (-BS)	PUHY-P450YKB-A (-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 1	Propeller fan x 2	Propeller fan x 2
	Air flow rate	m³/min	210	360	360	210	360	360
		L/s	3,500	6,000	6,000	3,500	6,000	6,000
		cfm	7,415	12,712	12,712	7,415	12,712	12,712
	Driving mechanis	m	Inverter-	control, Direct-driven b	y motor	Inverter	-control, Direct-driven b	by motor
	Motor output	kW	0.92 x 1	0.92 x 2	0.92 x 2	0.92 x 1	0.92 x 2	0.92 x 2
*3	External static pro	ess.	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)
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	10.5	12.4	12.4	10.8	12.4	12.4
	Case heater	kW	-	0.045	0.045	-	0.045	0.045
External finish			Pre-coated galvanized steel sheets			Pre-coated galvanized steel sheets		
			(+powder coating for -BS type)			(+powder coating for -BS type)		
			<munsell 1="" 5y="" 8="" or="" similar=""></munsell>			<munsell 1="" 5y="" 8="" or="" similar=""></munsell>		
External dimension	n HxWxD	mm		1,710 (1,650 without			1,710 (1,650 without	
			legs) x 1,220 x 740	legs) x 1,750 x 740	legs) x 1,750 x 740	legs) x 1,220 x 740	<u> </u>	legs) x 1,750 x 740
		in.	67-3/8 (65 without legs)			67-3/8 (65 without legs)		
			x 48-1/16 x 29-3/16	x 68-15/16 x 29-3/16	x 68-15/16 x 29-3/16	x 48-1/16 x 29-3/16	x 68-15/16 x 29-3/16	x 68-15/16 x 29-3/16
Protection	High pressure pro			High pressure switch		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
devices	Inverter circuit (CO	MP./FAN)		protection, Over-curren		Over-heat protection, Over-current protection		
	Compressor			Over-heat protection			Over-heat protection	
	Fan motor			Over-current protection			Over-current protection	
Refrigerant	Type x original ch			R410A x 11.8 kg (27 lbs)	,		R410A x 11.8 kg (27 lbs)	
Net weight		kg (lbs)	251 (554)	304 (671)	304 (671)	251 (554)	304 (671)	304 (671)
Heat exchanger			sistant cross fin & copp			sistant cross fin & copp		
Pipe between unit	Liquid pipe	mm (in.)		15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed
and distributor	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed				28.58 (1-1/8) Brazed	
Optional parts				Twinning kit: CMY-Y3		Outdoor Twinning kit: CMY-Y300VBK3		
				102SS/LS-G2, CMY-Y			102SS/LS-G2, CMY-Y	
			Head	der: CMY-Y104/108/10	10-G	Head	der: CMY-Y104/108/10	10-G

١,	2 Norminal Conditions											
		Indoor	Outdoor	Pipe length	Level difference							
	Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)							
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)							

^{*3} External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).
*Nominal condition *1,*2 are subject to JIS B8615-1.
*Due to continuing improvement, above specification may be subject to change without notice.



► Specifications

Model			PUHY-P1350YSKB-A (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	150.0
(Nominal)	*1	BTU / h	511,800
	Power input	kW	52.08
	Current input	Α	87.9-83.5-80.5
	EER	kW / kW	2.88
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)
cooling	Outdoor	D.B.	-5.0~52.0°C (23~126°F)
Heating capacity	*2	kW	168.0
(Nominal)	*2	BTU / h	573,200
	Power input kW		53.84
	Current input	Α	90.8-86.3-83.2
	COP	kW / kW	3.12
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)
heating	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)
Indoor unit	Total capacity		50~130% of outdoor unit capacity
connectable	Model / Quantity		P15~P250/2~50
Sound pressure le		dB <a>	71
(measured in aned	choic room)	ub \A>	71
Sound power level		dB <a>	90
(measured in aned			
Refrigerant piping		mm (in.)	19.05 (3/4) Brazed
diameter	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed

Set Model			,		
Model			PUHY-P450YKB-A (-BS)	PUHY-P450YKB-A (-BS)	PUHY-P450YKB-A (-BS)
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Air flow rate	m³/min	360	360	360
L		L/s	6,000	6,000	6,000
		cfm	12,712	12,712	12,712
	Driving mechanis	sm	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
	Motor output	kW	0.92 x 2	0.92 x 2	0.92 x 2
*3	External static pr	ess.	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 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	12.4	12.4	12.4
	Case heater	kW	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheets	Pre-coated galvanized steel sheets	Pre-coated galvanized steel sheets
			(+powder coating for -BS type)	(+powder coating for -BS type)	(+powder coating for -BS type)
			<munsell 1="" 5y="" 8="" or="" similar=""></munsell>	<munsell 1="" 5y="" 8="" or="" similar=""> <munsell 1="" 5y="" 8="" or="" similar=""></munsell></munsell>	
External dimensio	n HxWxD	mm	1,710 (1,650 without legs) x 1,750 x 740	1,710 (1,650 without legs) x 1,750 x 740	1,710 (1,650 without legs) x 1,750 x 740
		in.	67-3/8 (65 without legs) x 68-15/16 x 29-3/16	67-3/8 (65 without legs) x 68-15/16 x 29-3/16	67-3/8 (65 without legs) x 68-15/16 x 29-3/16
Protection	High pressure pre	otection	High pressure sensor, High pressure switch	High pressure sensor, High pressure switch	High pressure sensor, High pressure switch
devices			at 4.15 MPa (601 psi)	at 4.15 MPa (601 psi)	at 4.15 MPa (601 psi)
	Inverter circuit (CO	MP./FAN)	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection
	Fan motor		Over-current protection	Over-current protection	Over-current protection
Refrigerant	Type x original ch	narge	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)
Net weight		kg (lbs)	304 (671)	304 (671)	304 (671)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
Pipe between unit	Liquid pipe	mm (in.)	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed
and distributor	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Optional parts				Outdoor Twinning kit: CMY-Y300VBK3	
			Jo	oint: CMY-Y102SS/LS-G2, CMY-Y202/302S-C	62
				Header: CMY-Y104/108/1010-G	

٠,	, 2 Notified Conditions										
		Indoor	Indoor Outdoor Pipe length								
	Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)						
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)						

^{*3} External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).
*Nominal condition *1,*2 are subject to JIS B8615-1.
*Due to continuing improvement, above specification may be subject to change without notice.





► Specifications

Model			PUHY-EP200YLM-A (-BS)	PUHY-EP250YLM-A (-BS)	PUHY-EP300YLM-A (-BS)	
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity *1 kW		22.4	28.0	33.5		
(Nominal)	*1	BTU / h	76,400	95,500	114,300	
	Power input	kW	5.19	6.89	8.56	
	Current input	Α	8.7-8.3-8.0	11.6-11.0-10.6	14.4-13.7-13.2	
	EER	kW / kW	4.31	4.06	3.91	
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	
cooling	Outdoor	D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	
Heating capacity	*2	kW	25.0	31.5	37.5	
(Nominal)	*2	BTU / h	85,300	107,500	128,000	
·	Power input	kW	5.73	7.68	9.16	
	Current input	Α	9.6-9.1-8.8	12.9-12.3-11.8	15.4-14.6-14.1	
	COP kW/		4.36			
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	4.09 15.0~27.0°C (59~81°F)	
heating	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)	
Indoor unit	Total capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	
connectable	Model / Quantity		P15~P250/1~17	P15~P250/1~21	P15~P250/1~26	
Sound pressure le						
(measured in aned		dB <a>	57	60	61	
Sound power leve						
(measured in aned		dB <a>	79.5	80	82	
Refrigerant piping				9.52 (3/8) Brazed (12.7 (1/2) Brazed.	9.52 (3/8) Brazed (12.7 (1/2) Brazed.	
diameter	Liquid pipo	mm (in.)	9.52 (3/8) Brazed	farthest length >= 90 m)	farthest length >= 40 m)	
diamotor	Gas pipe mm (in		22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	
	Air flow rate	m³/min	175	175	200	
	7 11011 1410	L/s	2.917	2.917	3.333	
		cfm	6.179	6.179	7.062	
	Driving mechanism		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	
*3	External static pr		0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	
	Starting method		Inverter	Inverter	Inverter	
	Motor output	kW	5.6	6.9	8.1	
	Case heater	kW	-	_	_	
External finish	,		Pre-coated galvanized steel sheets	Pre-coated galvanized steel sheets	Pre-coated galvanized steel sheets	
			(+powder coating for -BS type)	(+powder coating for -BS type)	(+powder coating for -BS type)	
			<munsell 1="" 5y="" 8="" or="" similar=""></munsell>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>	
External dimensio	n HxWxD	mm	1,710 (1,650 without legs) x 920 x 740	1,710 (1,650 without legs) x 920 x 740	1,710 (1,650 without legs) x 1,220 x 740	
		in.	67-3/8 (65 without legs) x 36-1/4 x 29-3/16		67-3/8 (65 without legs) x 48-1/16 x 29-3/16	
Protection	High pressure pre	otection	High pressure sensor, High pressure switch	High pressure sensor, High pressure switch	High pressure sensor, High pressure switch	
devices			at 4.15 MPa (601 psi)	at 4.15 MPa (601 psi)	at 4.15 MPa (601 psi)	
	Inverter circuit (CO	MP./FAN)	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	
	Fan motor		Over-current protection	Over-current protection	Over-current protection	
Refrigerant	Type x original ch	narge	R410A x 7.5 kg (17 lbs)	R410A x 7.5 kg (17 lbs)	R410A x 10.3 kg (23 lbs)	
Net weight		kg (lbs)	208 (459)	208 (459)	252 (556)	
Heat exchanger			Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube	
Optional parts			Joint: CMY-Y102SS/LS-G2	Joint: CMY-Y102SS/LS-G2	Joint: CMY-Y102SS/LS-G2	
			Header: CMY-Y104/108/1010-G	Header: CMY-Y104/108/1010-G	Header: CMY-Y104/108/1010-G	

٠,	2 Nominal conditio	113			
		Indoor	Outdoor	Pipe length	Level difference
	Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

^{*3} External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O). *Nominal condition *1,*2 are subject to JIS B8615-1. *Due to continuing improvement, above specification may be subject to change without notice.



► Specifications

Cooling capacity (Nominal)	I-400-415 V 50/60 Hz 0.0 0.600 4.79 3.7-22.8 .38 C (59~75°F) C (23~126°F) 6.0 1,100 0.09 5.8-24.8 .48 C (59-81°F) °C (-4~60°F) door unit capacity
(Nominal) **1 BTU / h	0,600 1.79 3.7-22.8 3.8 C (59~75°F) C (23~126°F) 6.0 1,100 5.09 5.8-24.8 .48 C (59~81°F) © ((4~60°F) door unit capacity
Power input kW 11.69 12.26 14 14 14 15 15 15 15 15	1.79 3.7-22.8 3.8 (C (59-75°F) C (23~126°F) 6.0 1,100 5.09 5.8-24.8 .48 C (59~81°F) °C (-4~60°F) door unit capacity
Current input A 19.7-18.7-18.0 20.6-19.6-18.9 24.9-2 EER kW / kW 3.42 3.67 3 Temp. range of cooling Indoor W.B. 15.0~24.0°C (59~75°F) 15.0~24.0°C (59~81°F) 19.0	3.7-22.8 .38 .C (59~75°F) .C (23~126°F) .6.0 .1,100 .6.09 .5.8-24.8 .48 .C (59~81°F) .C (4~60°F) .door unit capacity
EER	.38 C (59~75°F) C (23~126°F) 6.0 1,100 8.09 5.8-24.8 .48 C (59~81°F) °C (-4~60°F) door unit capacity
Temp. range of cooling Indoor D.B. 15.0~24.0°C (59~75°F) 15.0~24.0°C (59~75°F) 15.0~24.0°C (59~75°F) Heating capacity (Nominal) *2 kW 45.0 50.0 50.0 Power input Current input A Current input A Cope input Pemperage of leating kW 12.53 13.15 16.0 Temp. range of leating Indoor D.B. 15.0~21.0°C (59~81°F) 15.0~21.0°C (59~81°F) 15.0~27.0°C (59~81°F) 15.0~27.0°C (4~60°F) -20.0~15.5°C (4~60°F) <td< td=""><td>C (59~75°F) C (23~126°F) 6.0 1,100 1,009 5.8-24.8 .48 C (59~81°F) °C (-4~60°F) door unit capacity</td></td<>	C (59~75°F) C (23~126°F) 6.0 1,100 1,009 5.8-24.8 .48 C (59~81°F) °C (-4~60°F) door unit capacity
cooling Outdoor D.B. -5.0~52.0°C (23~126°F)	C (23~126°F) 6.0 1,100 5.09 5.8-24.8 .48 C (59~81°F) °C (-4~60°F) door unit capacity
Heating capacity	6.0 1,100 5.09 5.8-24.8 .48 C (59~81°F) °C (-4~60°F) door unit capacity
(Nominal) *2 BTU / h 153,500 170,600 191 Power input Lorrent input Current input Current input CoP kW 12.53 13.15 16 COP kW / kW 3.59 3.80 3.80 Temp. range of heating Indoor D.B. 15.0~27.0°C (59~81°F) 15.0~27.0°C (59~81°F) 15.0~27.0°C (59~81°F) Outdoor W.B. -20.0~15.5°C (4~60°F) -20.0~15.5°C (4~60°F) -20.0~15.5°C (4~60°F)	1,100 5.09 5.8-24.8 .48 C (59~81°F) °C (4~60°F) door unit capacity
Power input kW 12.53 13.15 16 Current input A 21.1-20.0-19.3 22.1-21.0-20.3 27.1-2 COP kW / kW 3.59 3.80 3 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) 15.0~27.0°C (4~60°F) -20.0~15.5°C (4~60°F) -20	5.09 5.8-24.8 .48 C (59~81°F) °C (-4~60°F) door unit capacity
Current input A 21.1-20.0-19.3 22.1-21.0-20.3 27.1-2 COP kW / kW 3.59 3.80 3 Temp. range of leating 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)	5.8-24.8 .48 °C (59~81°F) °C (-4~60°F) door unit capacity
COP kW / kW 3.59 3.80 3 Temp. range of heating Indoor D.B. 15.0~27.0°C (59~81°F) 15.0~27.0°C (59~81°F) 15.0~27.0°C (59~81°F) Outdoor W.B. -20.0~15.5°C (-4~60°F) -20.0~15.5°C (-4~60°F) -20.0~15.5°C (-4~60°F)	.48 CC (59~81°F) °C (-4~60°F) door unit capacity
Temp. range of heating Indoor D.B. 15.0~27.0°C (59~81°F) 15.0~27.0°C (59~81°F) 15.0~27.0°C (59~81°F) Outdoor W.B. -20.0~15.5°C (-4~60°F) -20.0~15.5°C (-4~60°F) -20.0~15.5°C (-4~60°F)	°C (59~81°F) °C (-4~60°F) door unit capacity
heating Outdoor W.B20.0~15.5°C (-4~60°F) -20.0~15.5°C (-4~60°F) -20.0~15.5°C	°C (-4~60°F) door unit capacity
	door unit capacity
T	
	250/1~30
connectable Model / Quantity P15~P250/1~30 P15~P250/1~34 P15~P2	230/11-39
(measured in anechoic room)	63
(measured in anechoic room)	83
	/8) Brazed
	1/8) Brazed
FAN Type x Quantity Propeller fan x 1 Propeller fan x 2 Propeller	er fan x 2
Air flow rate m³/min 200 320 3	370
	167
	,065
Driving mechanism Inverter-control, Direct-driven by motor Inverter-control, Direct-driven by Motor Inverter-control, Direct-driven by Motor Inverter-control, D	irect-driven by motor
	2 x 2
	mmH₂O)
	rmetic compressor
	erter
	2.4
Case neater KII	_
	nized steel sheets
	ing for -BS type)
	Y 8/1 or similar>
	ut legs) x 1,750 x 740
	s) x 68-15/16 x 29-3/16
devices High pressure protection at 4.15 MPa (601 psi) at 4.15 MPa (601 psi) at 4.15 MPa (601 psi) at 4.15 MPa	r, High pressure switch Pa (601 psi)
	Over-current protection
	t protection
	nt protection
	.8 kg (27 lbs)
	(702)
	fin & aluminium tube
Optional parts Joint: CMY-Y102SS/LS-G2,CMY-Y202S-G2 Joint: CMY-Y102SS/LS-G2,CMY-Y202S-G2 Joint: CMY-Y102SS/LS-G2,CMY-Y202S-G2 Joint: CMY-Y104/108/1010-G Header: CMY-Y104/108/10	0.00.011///0000.00

٠,	, 2 Notified Conditions											
		Indoor	Outdoor	Pipe length	Level difference							
	Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)							
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)							

^{*3} External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O). *Nominal condition *1,*2 are subject to JIS B8615-1. *Due to continuing improvement, above specification may be subject to change without notice.





► Specifications

Model			PUHY-EP500YSLM-A (-BS)	PUHY-EP550YSLM-A (-BS)	PUHY-EP600YSLM-A (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	56.0	63.0	69.0
(Nominal)	*1	BTU / h	191,100	215,000	235,400
	Power input	kW	14.50	16.62	18.59
	Current input	Α	24.4-23.2-22.4	28.0-26.6-25.6	31.3-29.8-28.7
	EER	kW / kW	3.86	3.79	3.71
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling	Outdoor	D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)
Heating capacity	*2	kW	63.0	69.0	76.5
(Nominal)	*2	BTU / h	215,000	235,400	261,000
	Power input	kW	16.15	17.73	19.66
	Current input	Α	27.2-25.9-24.9	29.9-28.4-27.4	33.1-31.5-30.3
	COP	kW / kW	3.90	3.89	3.89
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	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)
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~P250/1~43	P15~P250/2~47	P15~P250/2~50
Sound pressure le	evel	dB <a>	63	63.5	64
(measured in ane	choic room)	ub <a>	03	03.5	04
Sound power leve	1	dB <a>	83	84.5	85
(measured in ane	choic room)	ub <a>	03	04.5	00
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

Cat Madel		,		,		-,		,
Set Model			DUUN EDOCOVI M. A. (DO)	DULLY EDOCAYUM A / DOX	DULLY EDOCAY M.A. (DO)	DILLIV EDOCOVI M. A. / DO	DILLIV EDOCOVI M. A. / DOV	DILLIV EDOCOVI M. A. / DOV
Model	I=					PUHY-EP300YLM-A (-BS)		
FAN	Type x Quantity	1 2	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m³/min	175	175	175	200	200	200
		L/s	2,917	2,917	2,917	3,333	3,333	3,333
		cfm	6,179	6,179	6,179	7,062	7,062	7,062
	Driving mechanis			ect-driven by motor		ect-driven by motor		ect-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
*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)
	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
Camaraaaar	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
Compressor	Motor output	kW	6.9	6.9	6.9	8.1	8.1	8.1
	Case heater	kW	_	_	_	-	_	_
External finish			Pre-coated galvar	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 colspan="2"><munsell 1="" 5y="" 8="" or="" similar=""> <munsell 1="" 5y="" 8="" or="" similar=""></munsell></munsell></td><td colspan="2"><munsell 1="" 5y="" 8="" or="" similar=""></munsell></td></munsell>	<munsell 1="" 5y="" 8="" or="" similar=""> <munsell 1="" 5y="" 8="" or="" similar=""></munsell></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 740	legs) x 920 x 740	legs) x 920 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740
		in.	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)
		111.	x 36-1/4 x 29-3/16	x 36-1/4 x 29-3/16	x 36-1/4 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16
Protection	High pressure pr	otection		, High pressure switch	High pressure sensor	, High pressure switch		, High pressure switch
devices			at 4.15 MP	a (601 psi)	at 4.15 MP		at 4.15 MF	Pa (601 psi)
	Inverter circuit (CO	MP./FAN)	Over-heat protection, (Over-current protection	Over-heat protection, (Over-current protection	Over-heat protection,	Over-current protection
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
	Fan motor		Over-currer	nt protection	Over-currer	nt protection	Over-currer	nt protection
Refrigerant	Type x original cl	narge	R410A x 7.5 kg (17 lbs)	R410A x 7.5 kg (17 lbs)	R410A x 7.5 kg (17 lbs)	R410A x 10.3 kg (23 lbs)	R410A x 10.3 kg (23 lbs)	R410A x 10.3 kg (23 lbs)
Net weight		kg (lbs)	208 (459)	208 (459)	208 (459)	252 (556)	252 (556)	252 (556)
Heat exchanger			Salt-resistant cross	fin & aluminium tube	Salt-resistant cross	fin & aluminium tube	Salt-resistant cross	fin & aluminium tube
Pipe between unit	Liquid pipe	mm (in.)	9.52 (3/8) Brazed	9.52 (3/8) Brazed	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	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Optional parts				it: CMY-Y100VBK3		it: CMY-Y100VBK3		it: CMY-Y100VBK3
'				S-G2. CMY-Y202S-G2		S-G2, CMY-Y202S-G2		S-G2, CMY-Y202S-G2
			Header: CMY-Y	104/108/1010-G		104/108/1010-G		104/108/1010-G

١,	2 Norminal Conditions												
		Indoor	Outdoor	Pipe length	Level difference								
	Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)								
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)								

^{*3} External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O). *Nominal condition *1,*2 are subject to JIS B8615-1. *Due to continuing improvement, above specification may be subject to change without notice.





► Specifications

Model			PUHY-EP650YSLM-A (-BS)	PUHY-EP700YSLM-A (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	73.0	80.0
(Nominal)	*1	BTU / h	249,100	273,000
	Power input	kW	18.15	20.15
	Current input	Α	30.6-29.1-28.0	34.0-32.3-31.1
	EER	kW / kW	4.02	3.97
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling	Outdoor	D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)
Heating capacity	*2	kW	81.5	88.0
(Nominal)	*2	BTU / h	278,100	300,300
	Power input	kW	20.07	21.67
	Current input	Α	33.8-32.1-31.0	36.5-34.7-33.4
	COP	kW / kW	4.06	4.06
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
heating	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-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~P250/2~50	P15~P250/2~50
Sound pressure le	evel	dB <a>	63	63.5
(measured in ane	choic room)	UB <a>	03	03.5
Sound power leve	l	dB <a>	84.5	85.5
(measured in ane	choic room)	ub \A>	04.0	00.0
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

ularrietei	Gas pipe	1111111 (111.)		20.30 (1-1/0) brazeu			34.93 (1-3/0) Blazeu	
Set Model								
Model			PUHY-EP200YLM-A (-BS)	PUHY-EP200YLM-A (-BS)	PUHY-EP250YLM-A (-BS)	PUHY-EP200YLM-A (-BS)	PUHY-EP200YLM-A (-BS)	PUHY-EP300YLM-A (-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m³/min	175	175	175	175	175	200
		L/s	2,917	2,917	2,917	2,917	2,917	3,333
		cfm	6,179	6,179	6,179	6,179	6,179	7,062
	Driving mechanis	sm	Inverter	-control, Direct-driven b	by motor	Inverter	-control, Direct-driven I	by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 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 mmH₂O)	0 Pa (0 mmH₂O)
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	5.6	5.6	6.9	5.6	5.6	8.1
	Case heater	kW	_	_	-	-	_	_
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type)					
			<munsell 1="" 5y="" 8="" or="" similar=""></munsell>			<munsell 1="" 5y="" 8="" or="" similar=""> 1,710 (1,650 without 1,710 (1,6</munsell>		
External dimensio	n HxWxD	mm	1,710 (1,650 without		1,710 (1,650 without			
			legs) x 920 x 740	legs) x 920 x 740	legs) x 920 x 740	legs) x 920 x 740	legs) x 920 x 740	legs) x 1,220 x 740
		in.		67-3/8 (65 without legs)				
	1		x 36-1/4 x 29-3/16	x 36-1/4 x 29-3/16	x 36-1/4 x 29-3/16	x 36-1/4 x 29-3/16	x 36-1/4 x 29-3/16	x 48-1/16 x 29-3/16
Protection	High pressure pr					High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
devices	Inverter circuit (CO	MP./FAN)		protection, Over-current	1	Over-heat protection, Over-current protection		
	Compressor		Over-heat protection				Over-heat protection	
	Fan motor			Over-current protection			Over-current protection	
Refrigerant	Type x original cl			R410A x 7.5 kg (17 lbs)				
Net weight		kg (lbs)	208 (459)	208 (459)	208 (459)	208 (459)	208 (459)	252 (556)
Heat exchanger			stant cross fin & alumin			stant cross fin & alumir		
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.)	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 (1-1/8) Brazed
Optional parts				Twinning kit: CMY-Y3			r Twinning kit: CMY-Y3	
				102SS/LS-G2, CMY-Y			102SS/LS-G2, CMY-Y	
			Head	der: CMY-Y104/108/10	10-G	Head	der: CMY-Y104/108/10	10-G

٠,	, 2 Notified Conditions											
		Indoor	Outdoor	Pipe length	Level difference							
	Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)							
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)							

^{*3} External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O). *Nominal condition *1,*2 are subject to JIS B8615-1. *Due to continuing improvement, above specification may be subject to change without notice.





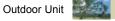


► Specifications

Model			PUHY-EP750YSLM-A (-BS)	PUHY-EP800YSLM-A (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	85.0	90.0
(Nominal)	*1	BTU / h	290,000	307,100
	Power input	kW	21.85	23.43
	Current input	A	36.8-35.0-33.7	39.5-37.5-36.2
	EER	kW / kW	3.89	3.84
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling	Outdoor	D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)
Heating capacity	*2	kW	95.0	100.0
(Nominal)	*2	BTU / h	324,100	341,200
	Power input	kW	23.92	25.18
	Current input	Α	40.3-38.3-36.9	42.5-40.3-38.9
	COP	kW / kW	3.97	3.97
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~P250/2~50	P15~P250/2~50
Sound pressure le	evel	dB <a>	64.5	65
(measured in ane	choic room)	ub <a>	04.0	00
Sound power leve	l	dB <a>	85.5	86.5
(measured in ane	choic room)	ub \A>	00.0	00.5
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	34.93 (1-3/8) Brazed

ulainetei	Gas pipe	1111111 (111.)		34.93 (1-3/0) Blazeu			34.93 (1-3/0) blazeu	
Set Model								
Model			PUHY-EP200YLM-A (-BS)	PUHY-EP250YLM-A (-BS)	PUHY-EP300YLM-A (-BS)	PUHY-EP200YLM-A (-BS)	PUHY-EP300YLM-A (-BS)	PUHY-EP300YLM-A (-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m³/min	175	175	200	175	200	200
		L/s	2,917	2,917	3,333	2,917	3,333	3,333
		cfm	6,179	6,179	7,062	6,179	7,062	7,062
	Driving mechani	sm	Inverter	-control, Direct-driven	by motor	Inverter	-control, Direct-driven I	by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
*3	External static p	ress.	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)
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	5.6	6.9	8.1	5.6	8.1	8.1
	Case heater	kW	_	_	_	_	_	_
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type)					
			<munsell 1="" 5y="" 8="" or="" similar=""></munsell>			<munsell 1="" 5y="" 8="" or="" similar=""></munsell>		
External dimension	n HvWvD	mm	1,710 (1,650 without		1,710 (1,650 without			1,710 (1,650 without
External dimension	II HXWXD		legs) x 920 x 740	legs) x 920 x 740	legs) x 1,220 x 740	legs) x 920 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740
		in.			67-3/8 (65 without legs)			
			x 36-1/4 x 29-3/16	x 36-1/4 x 29-3/16	x 48-1/16 x 29-3/16	x 36-1/4 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16
Protection	High pressure pr				at 4.15 MPa (601 psi)			
devices	Inverter circuit (CC	MP./FAN)		protection, Over-curren	, r	Over-heat protection, Over-current protection		
	Compressor				Over-heat protection		Over-heat protection	
	Fan motor			Over-current protection			Over-current protection	
Refrigerant	Type x original c				R410A x 10.3 kg (23 lbs)			
Net weight		kg (lbs)	208 (459)	208 (459)	252 (556)	208 (459)	252 (556)	252 (556)
Heat exchanger				stant cross fin & alumir			stant cross fin & alumir	
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	28.58 (1-1/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Optional parts				Twinning kit: CMY-Y3			r Twinning kit: CMY-Y3	
				102SS/LS-G2, CMY-Y			102SS/LS-G2, CMY-Y	
			Head	der: CMY-Y104/108/10	10-G	Header: CMY-Y104/108/1010-G		

٠,	, 2 Nothinal conditions										
		Indoor	Outdoor	Pipe length	Level difference						
	Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)						
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)						



^{*3} External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O). *Nominal condition *1,*2 are subject to JIS B8615-1. *Due to continuing improvement, above specification may be subject to change without notice.





► Specifications

Model			PUHY-EP850YSLM-A (-BS)	PUHY-EP900YSLM-A (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	96.0	101.0
(Nominal)	*1	BTU / h	327,600	344,600
	Power input	kW	25.53	27.22
	Current input	Α	43.0-40.9-39.4	45.9-43.6-42.0
	EER	kW / kW	3.76	3.71
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling	Outdoor	D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)
Heating capacity	*2	kW	108.0	113.0
(Nominal)	*2	BTU / h	368,500	385,600
	Power input	kW	27.76	29.04
	Current input	Α	46.8-44.5-42.9	49.0-46.5-44.8
	COP	kW / kW	3.89	3.89
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
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~P250/2~50	P15~P250/2~50
Sound pressure le		dB <a>	65.5	66
Sound power leve (measured in ane	dD < A>		86.5	87
Refrigerant piping	Liquid pipe	mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed
diameter	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed	41.28 (1-5/8) Brazed

Set Model									
Model			PUHY-EP250YLM-A (-BS)	PUHY-EP300YLM-A (-BS)	PUHY-EP300YLM-A (-BS)	PUHY-EP300YLM-A (-BS)	PUHY-EP300YLM-A (-BS)	PUHY-EP300YLM-A (-BS)	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	
	Air flow rate	m³/min	175	200	200	200	200	200	
		L/s	2,917	3,333	3,333	3,333	3,333	3,333	
		cfm	6,179	7,062	7,062	7,062	7,062	7,062	
	Driving mechanis	m	Inverter-	-control, Direct-driven I	by motor	Inverter-	control, Direct-driven b	by motor	
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	
*3	External static pro	ess.	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	
Compressor	Type x Quantity		Inverte	er scroll hermetic comp	ressor	Inverte	er scroll hermetic comp	er scroll hermetic compressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	6.9	8.1	8.1	8.1	8.1	8.1	
	Case heater	kW	-	_	-	-	-	-	
External finish				pated galvanized steel			Pre-coated galvanized steel sheets		
				owder coating for -BS t		(+powder coating for -BS type)			
				UNSELL 5Y 8/1 or simi			JNSELL 5Y 8/1 or simi		
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	
			legs) x 920 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	
		in.				67-3/8 (65 without legs)			
			x 36-1/4 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	
Protection	High pressure pro			, High pressure switch			High pressure switch		
devices	Inverter circuit (CO	MP./FAN)	Over-heat p	protection, Over-currer			protection, Over-curren		
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection		Over-heat protection		
	Fan motor			Over-current protection			Over-current protection		
Refrigerant	Type x original ch	narge	R410A x 7.5 kg (17 lbs)			R410A x 10.3 kg (23 lbs)			
Net weight		kg (lbs)	208 (459)	252 (556)	252 (556)	252 (556)	252 (556)	252 (556)	
Heat exchanger			stant cross fin & alumir			stant cross fin & alumin	ium 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	12.7 (1/2) Brazed	
and distributor	Gas pipe	mm (in.)	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	
Optional parts				Twinning kit: CMY-Y3			Twinning kit: CMY-Y3		
				102SS/LS-G2, CMY-Y			102SS/LS-G2, CMY-Y		
			Head	der: CMY-Y104/108/10	10-G	Head	der: CMY-Y104/108/10	10-G	

٠,	, 2 Nothinal conditions										
		Indoor	Outdoor	Pipe length	Level difference						
	Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)						
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)						

^{*3} External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O). *Nominal condition *1,*2 are subject to JIS B8615-1. *Due to continuing improvement, above specification may be subject to change without notice.





► Specifications

Model			PUHY-EP950YSLM-A (-BS)	PUHY-EP1000YSLM-A (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	108.0	113.0
(Nominal)	*1	BTU / h	368,500	385,600
	Power input	kW	30.33	31.04
	Current input	Α	51.2-48.6-46.8	52.4-49.7-47.9
	EER	kW / kW	3.56	3.64
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling	Outdoor	D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)
Heating capacity	*2	kW	119.5	127.0
(Nominal)	*2	BTU / h	407,700	433,300
	Power input	kW	32.03	33.50
	Current input	Α	54.0-51.3-49.5	56.5-53.7-51.7
	COP	kW / kW	3.73	3.79
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
heating	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit	Total capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
connectable	Model / Quantity		P15~P250/2~50	P15~P250/2~50
Sound pressure le	evel	dB <a>	66	66.5
(measured in ane	choic room)	ub <a>	00	00.5
Sound power leve	el .	dB <a>	87	87
(measured in ane	choic room)	ub <a>	0/	87
Refrigerant piping	Liquid pipe	mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed
diameter	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed	41.28 (1-5/8) Brazed

Set Model			•							
Model			PUHY-EP300YLM-A (-BS)	PUHY-EP300YLM-A (-BS)	PUHY-EP350YLM-A (-BS)	PUHY-EP300YLM-A (-BS)	PUHY-EP300YLM-A (-BS)	PUHY-EP400YLM-A (-BS)		
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2		
	Air flow rate	m³/min	200	200	200	200	200	320		
		L/s	3,333	3,333	3,333	3,333	3,333	5,333		
		cfm	7,062	7,062	7,062	7,062	7,062	11,299		
	Driving mechanis	m	Inverter-	-control, Direct-driven b	by motor	Inverter	-control, Direct-driven I	Arol, Direct-driven by motor 0.92 x 1 0.92 x 2 OPA (0 mmH ₂ O) 0 PA (0 mmH ₂ O)		
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 2		
*3	External static pro	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)		
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	8.1	8.1	10.5	8.1	8.1	10.9		
	Case heater	kW	-	-	-	-	_			
External finish			Pre-co	ated galvanized steel	sheets	Pre-coated galvanized steel sheets				
				owder coating for -BS t		(+powder coating for -BS type)				
			<mi< td=""><td>JNSELL 5Y 8/1 or simi</td><td>lar></td><td><mi< td=""><td>JNSELL 5Y 8/1 or simi</td><td>lar></td></mi<></td></mi<>	JNSELL 5Y 8/1 or simi	lar>	<mi< td=""><td>JNSELL 5Y 8/1 or simi</td><td>lar></td></mi<>	JNSELL 5Y 8/1 or simi	lar>		
External dimension	n HxWxD	mm	1,710 (1,650 without							
			legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,750 x 740		
		in.		67-3/8 (65 without legs)						
			x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 68-15/16 x 29-3/16		
Protection	High pressure pro			High pressure switch			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
devices	Inverter circuit (CO	MP./FAN)	Over-heat p	protection, Over-curren	t protection		protection, Over-currer	t protection		
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection		
	Fan motor				Over-current protection		Over-current protection			
Refrigerant	Type x original ch	arge				R410A x 10.3 kg (23 lbs)		R410A x 11.8 kg (27 lbs)		
Net weight		kg (lbs)	252 (556)	252 (556)	252 (556)	252 (556)	252 (556)	318 (702)		
Heat exchanger		Salt-resis	stant cross fin & alumin	ium tube	Salt-resis	stant cross fin & alumir	ium tube			
Pipe between unit	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed		
and distributor	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed		
Optional parts				Twinning kit: CMY-Y3			Twinning kit: CMY-Y3			
				102SS/LS-G2, CMY-Y			102SS/LS-G2, CMY-Y			
			Head	der: CMY-Y104/108/10	10-G	Head	der: CMY-Y104/108/10	10-G		

٠,	, 2 Nothinal conditions										
		Indoor	Outdoor	Pipe length	Level difference						
	Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)						
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)						

^{*3} External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O). *Nominal condition *1,*2 are subject to JIS B8615-1. *Due to continuing improvement, above specification may be subject to change without notice.



► Specifications

Model			PUHY-EP1050YSLM-A (-BS)	PUHY-EP1100YSLM-A (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	118.0	124.0
(Nominal)	*1	BTU / h	402,600	423,100
	Power input	kW	34.40	38.15
	Current input	A	58.0-55.1-53.1	64.4-61.1-58.9
	EER	kW / kW	3.43	3.25
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling	Outdoor	D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)
Heating capacity	*2	kW	132.0	140.0
(Nominal)	*2	BTU / h	450,400	477,700
	Power input	kW	36.87	41.17
	Current input	Α	62.2-59.1-56.9	69.5-66.0-63.6
	COP	kW / kW	3.58	3.40
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
heating	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit	Total capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
connectable	Model / Quantity		P15~P250/3~50	P15~P250/3~50
Sound pressure le	evel	dD dAs	00.5	00.5
(measured in ane	choic room)	dB <a>	66.5	66.5
Sound power leve	el .	dD dAs	87.5	87.5
(measured in ane		dB <a>	07.5	87.5
Refrigerant piping	Liquid pipe	mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed
diameter	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed	41.28 (1-5/8) Brazed

Set Model									
Model			PUHY-EP300YLM-A (-BS)	PUHY-EP350YLM-A (-BS)	PUHY-EP400YLM-A (-BS)	PUHY-EP350YLM-A (-BS)	PUHY-EP350YLM-A (-BS)	PUHY-EP400YLM-A (-BS)	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 2	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2	
	Air flow rate	m³/min	200	200	320	200	200	320	
		L/s	3,333	3,333	5,333	3,333	3,333	5,333	
		cfm	7,062	7,062	11,299	7,062	7,062	11,299	
	Driving mechanis	m	Inverter-	-control, Direct-driven b	by motor	Inverter	-control, Direct-driven I	by motor	
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 2	0.92 x 1	0.92 x 1	0.92 x 2	
*3	External static pr	ess.	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	
Compressor	Type x Quantity		Inverte	er scroll hermetic comp	ressor	Inverte	er scroll hermetic comp	ressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	8.1	10.5	10.9	10.5	10.5	10.9	
	Case heater	kW	-	-	-	-	_	_	
External finish			Pre-co	ated galvanized steel	sheets	Pre-co	Pre-coated galvanized steel sheets		
				owder coating for -BS t		(+powder coating for -BS type)			
			<mi< td=""><td>JNSELL 5Y 8/1 or simi</td><td>lar></td><td><mi< td=""><td>JNSELL 5Y 8/1 or simi</td><td>ilar></td></mi<></td></mi<>	JNSELL 5Y 8/1 or simi	lar>	<mi< td=""><td>JNSELL 5Y 8/1 or simi</td><td>ilar></td></mi<>	JNSELL 5Y 8/1 or simi	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 740	legs) x 1,220 x 740	legs) x 1,750 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,750 x 740	
		in.		67-3/8 (65 without legs)			67-3/8 (65 without legs)		
			x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 68-15/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 68-15/16 x 29-3/16	
Protection	High pressure pre			, High pressure switch			essure sensor, High pressure switch at 4.15 MPa (601 psi)		
devices	Inverter circuit (CO	MP./FAN)		protection, Over-curren			protection, Over-currer		
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection		Over-heat protection	
	Fan motor				Over-current protection		Over-current protection		
Refrigerant	Type x original ch			R410A x 10.3 kg (23 lbs)		R410A x 10.3 kg (23 lbs)	R410A x 10.3 kg (23 lbs)		
Net weight		kg (lbs)	252 (556)	252 (556)	318 (702)	252 (556)	252 (556)	318 (702)	
Heat exchanger		Salt-resis	stant cross fin & alumin	ium tube	Salt-resis	stant cross fin & alumir	nium tube		
Pipe between unit	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed	
and distributor	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	
Optional parts				Twinning kit: CMY-Y3			Twinning kit: CMY-Y3		
				102SS/LS-G2, CMY-Y			102SS/LS-G2, CMY-Y		
			Head	der: CMY-Y104/108/10	10-G	Head	der: CMY-Y104/108/10	10-G	

١,	, 2 Nominal Conditions										
		Indoor	Outdoor	Pipe length	Level difference						
	Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)						
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)						

^{*3} External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O). *Nominal condition *1,*2 are subject to JIS B8615-1. *Due to continuing improvement, above specification may be subject to change without notice.





► Specifications

Model			PUHY-EP1150YSLM-A (-BS)	PUHY-EP1200YSLM-A (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	130.0	136.0
(Nominal)	*1	BTU / h	443,600	464,000
	Power input	kW	41.53	42.76
	Current input	Α	70.1-66.6-64.1	72.1-68.5-66.0
	EER	kW / kW	3.13	3.18
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling	Outdoor	D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)
Heating capacity	*2	kW	145.0	150.0
(Nominal)	*2	BTU / h	494,700	511,800
	Power input	kW	44.47	45.45
	Current input	Α	75.0-71.3-68.7	76.7-72.8-70.2
	COP	kW / kW	3.26	3.30
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
heating	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit	Total capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
connectable	Model / Quantity		P15~P250/3~50	P15~P250/3~50
Sound pressure le (measured in aned		dB <a>	66.5	67
Sound power level (measured in anechoic room)		dB <a>	87.5	87.5
Refrigerant piping	Liquid pipe	mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed
diameter	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed	41.28 (1-5/8) Brazed
Set Model				
Model			PUHY-EP350YLM-A (-BS) PUHY-EP350YLM-A (-BS) PUHY-EP450YLM-A (-BS)	PUHY-EP350YLM-A (-BS) PUHY-EP400YLM-A (-BS) PUHY-EP450YLM-A

Set Model		•						
Model			PUHY-EP350YLM-A (-BS)	PUHY-EP350YLM-A (-BS)	PUHY-EP450YLM-A (-BS)	PUHY-EP350YLM-A (-BS)	PUHY-EP400YLM-A (-BS)	PUHY-EP450YLM-A (-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 2	Propeller fan x 1	Propeller fan x 2	Propeller fan x 2
	Air flow rate	m³/min	200	200	370	200	320	370
		L/s	3,333	3,333	6,167	3,333	5,333	6,167
		cfm	7,062	7,062	13,065	7,062	11,299	13,065
	Driving mechanis	sm	Inverter-	control, Direct-driven b	y motor	Inverter	-control, Direct-driven b	by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 2	0.92 x 1	0.92 x 2	0.92 x 2
*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 mmH₂O)
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	10.5	10.5	12.4	10.5	10.9	12.4
	Case heater	kW	-	ı	ı	-	-	_
External finish			Pre-co	ated galvanized steel:	sheets	Pre-coated galvanized steel sheets		
				wder coating for -BS t		(+powder coating for -BS type)		
			****	JNSELL 5Y 8/1 or simi	· ···	****	UNSELL 5Y 8/1 or simi	
External dimension	n HxWxD	mm		1,710 (1,650 without			1,710 (1,650 without	
			legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,750 x 740	legs) x 1,220 x 740	legs) x 1,750 x 740	legs) x 1,750 x 740
		in.			67-3/8 (65 without legs)		67-3/8 (65 without legs)	
			x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 68-15/16 x 29-3/16	x 48-1/16 x 29-3/16	x 68-15/16 x 29-3/16	x 68-15/16 x 29-3/16
Protection	High pressure pre			High pressure switch			, High pressure switch	
devices	Inverter circuit (CO	MP./FAN)		protection, Over-curren			protection, Over-curren	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	
	Fan motor			Over-current protection			Over-current protection	
Refrigerant	Type x original ch			R410A x 10.3 kg (23 lbs)			R410A x 11.8 kg (27 lbs)	
Net weight		kg (lbs)	252 (556)	252 (556)	318 (702)	252 (556)	318 (702)	318 (702)
Heat exchanger			tant cross fin & alumin			stant cross fin & alumin		
Pipe between unit		mm (in.)	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed
and distributor	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Optional parts				Twinning kit: CMY-Y3			Twinning kit: CMY-Y3	
				102SS/LS-G2, CMY-Y			102SS/LS-G2, CMY-Y	
			Head	der: CMY-Y104/108/10	10-G	Head	der: CMY-Y104/108/10	10-G

١,	, 2 Norminal Conditions								
		Indoor	Outdoor	Pipe length	Level difference				
	Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)				
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)				

^{*3} External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O). *Nominal condition *1,*2 are subject to JIS B8615-1. *Due to continuing improvement, above specification may be subject to change without notice.



► Specifications

Model			PUHY-EP1250YSLM-A (-BS)	PUHY-EP1300YSLM-A (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	140.0	146.0
(Nominal)	*1	BTU / h	477,700	498,200
	Power input	kW	45.90	46.94
	Current input	Α	77.4-73.6-70.9	79.2-75.2-72.5
	EER	kW / kW	3.05	3.11
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling	Outdoor	D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)
Heating capacity	*2	kW	156.5	163.0
(Nominal)	*2	BTU / h	534,000	556,200
,	Power input	kW	49.36	50.62
	Current input	Α	83.3-79.1-76.2	85.4-81.1-78.2
	COP	kW / kW	3.17	3.22
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
heating	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit	Total capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
connectable	Model / Quantity		P15~P250/3~50	P15~P250/3~50
Sound pressure le	evel	dB <a>	67.5	68
(measured in ane	choic room)	ub <a>	07.5	00
Sound power level		dB <a>	88	88
(measured in ane	choic room)	ub <a>	00	88
Refrigerant piping	Liquid pipe	mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed
diameter	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed	41.28 (1-5/8) Brazed

Set Model								
Model			PUHY-EP350YLM-A (-BS)	PUHY-EP450YLM-A (-BS)	PUHY-EP450YLM-A (-BS)	PUHY-EP400YLM-A (-BS)	PUHY-EP450YLM-A (-BS)	PUHY-EP450YLM-A (-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Air flow rate	m³/min	200	370	370	320	370	370
		L/s	3,333	6,167	6,167	5,333	6,167	6,167
		cfm	7,062	13,065	13,065	11,299	13,065	13,065
	Driving mechanis		Inverter-	-control, Direct-driven b		Inverter	-control, Direct-driven I	by motor
	Motor output	kW	0.92 x 1	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2
*3	External static pr	ess.	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverte	er scroll hermetic comp	ressor	Inverte	er scroll hermetic comp	ressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	10.5	12.4	12.4	10.9	12.4	12.4
	Case heater	kW	-	_	-	-	_	_
External finish			Pre-coated galvanized steel sheets			Pre-coated galvanized steel sheets		
			(+powder coating for -BS type)			(+powder coating for -BS type)		
			<munsell 1="" 5y="" 8="" or="" similar=""></munsell>		<munsell 1="" 5y="" 8="" or="" similar=""></munsell>			
External dimension	n HxWxD	mm	1,710 (1,650 without		1,710 (1,650 without			1,710 (1,650 without
			legs) x 1,220 x 740	legs) x 1,750 x 740	legs) x 1,750 x 740	legs) x 1,750 x 740	legs) x 1,750 x 740	legs) x 1,750 x 740
		in.		67-3/8 (65 without legs)			67-3/8 (65 without legs)	
			x 48-1/16 x 29-3/16	x 68-15/16 x 29-3/16	x 68-15/16 x 29-3/16	x 68-15/16 x 29-3/16	x 68-15/16 x 29-3/16	x 68-15/16 x 29-3/16
Protection	High pressure pre			High pressure switch		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
devices	Inverter circuit (CO	MP./FAN)		protection, Over-curren		Over-heat protection, Over-current protection		
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
	Fan motor				Over-current protection		Over-current protection	
Refrigerant	Type x original ch					R410A x 11.8 kg (27 lbs)		
Net weight		kg (lbs)	252 (556)	318 (702)	318 (702)	318 (702)	318 (702)	318 (702)
Heat exchanger		Salt-resis	stant cross fin & alumin	ium tube	Salt-resis	stant cross fin & alumir	ium tube	
Pipe between unit	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed
and distributor	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Optional parts				Twinning kit: CMY-Y3			Twinning kit: CMY-Y3	
				102SS/LS-G2, CMY-Y			102SS/LS-G2, CMY-Y	
			Head	der: CMY-Y104/108/10	10-G	Head	der: CMY-Y104/108/10	10-G

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/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)					
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)					

^{*3} External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O). *Nominal condition *1,*2 are subject to JIS B8615-1. *Due to continuing improvement, above specification may be subject to change without notice.





► Specifications

		PUHY-EP1350YSLM-A (-BS)
		3-phase 4-wire 380-400-415 V 50/60 Hz
*1	kW	150.0
*1	BTU / h	511,800
Power input	kW	50.00
Current input	Α	84.4-80.1-77.2
EER	kW / kW	3.00
Indoor	W.B.	15.0~24.0°C (59~75°F)
Outdoor	D.B.	-5.0~52.0°C (23~126°F)
*2	kW	168.0
*2	BTU / h	573,200
Power input	kW	54.36
Current input	Α	91.7-87.1-84.0
COP	kW / kW	3.09
Indoor	D.B.	15.0~27.0°C (59~81°F)
Outdoor	W.B.	-20.0~15.5°C (-4~60°F)
Total capacity		50∼130% of outdoor unit capacity
Model / Quantity		P15~P250/3~50
vel	4D ~ ^ >	68
choic room)	ub \A>	00
Sound power level		88
choic room)	ub \A>	00
Liquid pipe	mm (in.)	19.05 (3/4) Brazed
Gas pipe	mm (in.)	41.28 (1-5/8) Brazed
	Power input Current input EER Indoor Outdoor *2 Power input Current input Current input COP Indoor Outdoor Total capacity Model / Quantity vel choic room) Liquid pipe	BTU / h

ulailletei	Gas pipe			41.20 (1-3/0) blazeu		
Set Model						
Model			PUHY-EP450YLM-A (-BS)	PUHY-EP450YLM-A (-BS)	PUHY-EP450YLM-A (-BS)	
FAN	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	0.92 x 2	0.92 x 2	0.92 x 2	
*3	External static pr	ess.	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	
Compressor	Type x Quantity			Inverter scroll hermetic compressor		
	Starting method		Inverter	Inverter	Inverter	
	Motor output	kW	12.4	12.4	12.4	
	Case heater	kW	_	_	_	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type)			
			<munsell 1="" 5y="" 8="" or="" similar=""></munsell>			
External dimension	n HxWxD	mm	1,710 (1,650 without legs) x 1,750 x 740	1,710 (1,650 without legs) x 1,750 x 740	1,710 (1,650 without legs) x 1,750 x 740	
		in.	67-3/8 (65 without legs) x 68-15/16 x 29-3/16	67-3/8 (65 without legs) x 68-15/16 x 29-3/16		
Protection	High pressure pre		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
devices	Inverter circuit (CO	MP./FAN)	Over-heat protection, Over-current protection			
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	
	Fan motor		Over-current protection	Over-current protection	Over-current protection	
Refrigerant	Type x original ch	narge	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	
Net weight		kg (lbs)	318 (702)	318 (702)	318 (702)	
Heat exchanger			Salt-resistant cross fin & aluminium tube			
Pipe between unit	Liquid pipe	mm (in.)	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	
and distributor	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	
Optional parts		Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G				

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/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)					
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)					

^{*3} External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O). *Nominal condition *1,*2 are subject to JIS B8615-1. *Due to continuing improvement, above specification may be subject to change without notice.

HEAT SOURCE UNIT WY (Heat Pump) Series

PQHY-P YHM-A



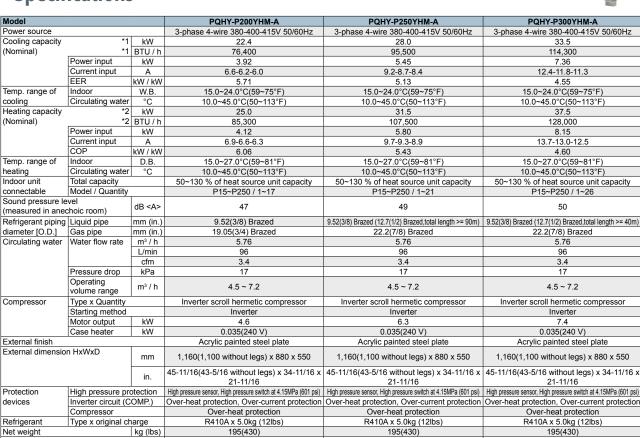


plate type

5.0

2 0

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

Header: CMY-Y104/108/1010-G

plate type

5.0

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

Header: CMY-Y104/108/1010-G

Notes:

Heat exchanger

Optional parts

Water volume in

plate Water pressure L

MPa

, 2	INOTHINAL CONGINO	1113			
		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)	1	

plate type

5.0

2.0

Joint: CMY-Y102SS-G2

Header: CMY-Y104/108/1010-G

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



^{*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%

To the heat source Unit should not be installed at outdoor.

To Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

To Be sure to provide interlocking for the unit operation and water circuit.

► 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 level (measured in anechoic room)		dB <a>	50	51	52
Refrigerant piping	Liquid pipe	mm (in.)	12.7(1/2) Brazed	15.88(5/8) Brazed	15.88(5/8) Brazed
diameter [O.D.] Gas pipe mm (in.) 28.58(1-1/8) Brazed 28.58		28.58(1-1/8) Brazed	28.58(1-1/8) Brazed		
Set Model			_ ·	· ·	· •
Madal			DOUNT DOORNALISE A DOUNT DOORNALISE A	DOLLY DOTON (INC. A. DOLLY DOCON (INC. A.	DOLLY DOLLY A DOLLY DOLLY A

Model			PQHY-P200YHM-A	PQHY-P200YHM-A	PQHY-P250YHM-A	PQHY-P200YHM-A	PQHY-P250YHM-A	PQHY-P250YHM-A
Circulating water	Water flow rate	m³ / h	5.76 +	+ 5.76	5.76 -	5.76	5.76 + 5.76	
		L/min	96 +	+ 96	96 -	+ 96	96 + 96	
		cfm	3.4 +	+ 3.4	3.4 -	+ 3.4	3.4 -	+ 3.4
	Pressure drop	kPa	17	17	17	17	17	17
	Operating volume range	m³ / h	4.5 + 4.5 ~	~ 7.2 + 7.2	4.5 + 4.5	~ 7.2 + 7.2	4.5 + 4.5	~ 7.2 + 7.2
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll 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		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	1,160(1,100 without
		111111	legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550
		in.	45-11/16(43-5/16 without	45-11/16(43-5/16 without	45-11/16(43-5/16 without	45-11/16(43-5/16 without	45-11/16(43-5/16 without	45-11/16(43-5/16 without
			legs) x 34-11/16 x 21-11/16 legs) x 34-11/16 x 21-11/16					
Protection	High pressure pro		High pressure sensor, High pressure switch at 4.15MPa (601 psi)		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					
	Compressor		Over-heat		Over-heat		Over-heat	
Refrigerant	Type x original ch	arge					R410A x 5.0kg (12lbs)	
Net weight		kg (lbs)	195(430)	195(430)	195(430)	195(430)	195(430)	195(430)
Heat exchanger			plate type	plate type	plate type	plate type	plate type	plate type
	Water volume in plate	L	5.0	5.0	5.0	5.0	5.0	5.0
	Water pressure Max.	MPa	2.0	2.0	2.0	2.0	2.0	2.0
Optional parts			Heat Source Twinning	kit: CMY-Y100VBK2	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

١,	, 2 Nonlina Conditions										
		Indoor	Water temperature	Pipe length	Level difference						
	Cooling	27°CD.B./19°CW.B. (81°FD.B./66°FW.B.)	30°C (86°F)	7.5m (24-9/16ft.)	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 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.

► Specifications



Model			PQHY-P550YSHM-A	PQHY-P600YSHM-A
Power source			3-phase 4-wire 380-400-415V 50/60Hz	3-phase 4-wire 380-400-415V 50/60Hz
Cooling capacity	*1	kW	63.0	69.0
(Nominal)	*1	BTU / h	215,000	235,400
	Power input	kW	13.46	15.48
	Current input	Α	22.7-21.5-20.8	26.1-24.8-23.9
	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	76.5
(Nominal)	*2	BTU / h	235,400	261,000
	Power input	kW	14.65	17.12
	Current input	Α	24.7-23.4-22.6	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(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 ane		dB <a>	52.5	53
Refrigerant piping	Liquid pipe	mm (in.)	15.88(5/8) Brazed	15.88(5/8) Brazed
diameter [O.D.]	Gas pipe	mm (in.)	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed
Set Model				· ·

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	5.76	+ 5.76	
		L/min	96 + 96		96 + 96		
		cfm	3.4	+ 3.4	3.4 -	+ 3.4	
	Pressure drop	kPa	17	17	17	17	
	Operating volume range	m³ / h	4.5 + 4.5	~ 7.2 + 7.2	4.5 + 4.5	~ 7.2 + 7.2	
Compressor	Type x Quantity		Inverter scroll 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	on 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	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 protection, Over-current protection		Over-heat protection, Over-current 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)	
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:

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

^{*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.



^{*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.

► 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
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	pressor	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	A	crylic painted steel pla	te
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	45-11/16(43-5/16 without	45-11/16(43-5/16 without	45-11/16(43-5/16 without		45-11/16(43-5/16 without
		in.			legs) x 34-11/16 x 21-11/16			
Protection	High pressure pro	tection	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			
	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)	R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)
Net weight		kg (lbs)	195(430)	195(430)	195(430)	195(430)	195(430)	195(430)
Heat exchanger			plate type	plate type	plate type	plate type	plate type	plate type
	Water volume in plate	L	5.0	5.0	5.0	5.0	5.0	5.0
	Water pressure Max.	MPa	2.0	2.0	2.0	2.0	2.0	2.0
Optional parts			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-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.)	0m (0ft.)	
Heating	20°CD.B. (68°FD.B.)	20°C (68°F)			

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

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

^{*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.

► 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	kW	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 (measured in aned		dB <a>	54	54
Refrigerant piping	Liquid pipe	mm (in.)	19.05(3/4) Brazed	19.05(3/4) Brazed
diameter [O.D.]	Gas pipe	mm (in.)	34.93(1-3/8) Brazed	34.93(1-3/8) Brazed
Set Model				•

Model			PQHY-P250YHM-A	PQHY-P250YHM-A	PQHY-P250YHM-A	PQHY-P300YHM-A	PQHY-P250YHM-A	PQHY-P250YHM-A
Circulating water	Water flow rate	m ³ / h		5.76 + 5.76 + 5.76			5.76 + 5.76 + 5.76	
	L/min		96 + 96 + 96				96 + 96 + 96	
		cfm		3.4 + 3.4 + 3.4			3.4 + 3.4 + 3.4	
	Pressure drop	kPa	17	17	17	17	17	17
	Operating volume range	m³ / h	4.5 +	+ 4.5 + 4.5 ~ 7.2 + 7.2	+ 7.2	4.5 +	4.5 + 4.5 ~ 7.2 + 7.2	+ 7.2
Compressor	Type x Quantity		Inverte	er scroll hermetic comp	ressor	Inverte	er scroll hermetic comp	ressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	6.3	6.3	6.3	7.4	6.3	6.3
	Case heater	kW	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.035(240 V)
External finish			A	crylic painted steel pla	te	A	crylic painted steel pla	te
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	1,160(1,100 without
		111111	legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550
		in.	45-11/16(43-5/16 without	45-11/16(43-5/16 without	45-11/16(43-5/16 without	45-11/16(43-5/16 without	45-11/16(43-5/16 without	45-11/16(43-5/16 without
		111.	legs) x 34-11/16 x 21-11/16 legs) x 34-11/16 x 21-11/16 legs) x 34-11/16 x 21-11/16			legs) x 34-11/16 x 21-11/16 legs) x 34-11/16 x 21-11/16 legs) x 34-11/16 x 21-11/16		
Protection	High pressure pro	tection	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 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)	R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)
Net weight		kg (lbs)	195(430)	195(430)	195(430)	195(430)	195(430)	195(430)
Heat exchanger			plate type	plate type	plate type	plate type	plate type	plate type
	Water volume in plate	L	5.0	5.0	5.0	5.0	5.0	5.0
	Water pressure Max.	MPa	2.0	2.0	2.0	2.0	2.0	2.0
Optional parts			Heat Sour	ce Twinning kit: CMY-	Y300VBK2	Heat Source Twinning kit: CMY-Y300VBK2		
			Joint: CMY-Y102SS-G2,	CMY-Y102LS-G2,CMY-Y2	202S-G2,CMY-Y302S-G2	Joint: CMY-Y102SS-G2,	CMY-Y102LS-G2,CMY-Y2	02S-G2,CMY-Y302S-G2
			Head	der: CMY-Y104/108/10	10-G	Head	der: CMY-Y104/108/10	10-G

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.

^{*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.



^{*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.

► 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)	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	108.0	113.0
(Nominal)	*2	BTU / h	368,500	385,600
	Power input	kW	23.21	25.67
	Current input	Α	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	°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>	54.5	55
Refrigerant piping	Liquid pipe	mm (in.)	19.05(3/4) Brazed	19.05(3/4) Brazed
	Gas pipe	mm (in.)	41.28(1-5/8) Brazed	41.28(1-5/8) Brazed
Set Model				

Model			PQHY-P300YHM-A	PQHY-P300YHM-A	PQHY-P250YHM-A	PQHY-P300YHM-A	PQHY-P300YHM-A	PQHY-P300YHM-A
Circulating water	Water flow rate	m ³ / h		5.76 + 5.76 + 5.76			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	pressor	Inverte	er scroll hermetic comp	ressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	7.4	7.4	6.3	7.4	7.4	7.4
	Case heater	kW	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.035(240 V)
External finish			A	crylic painted steel pla	te	A	crylic painted steel pla	te
External dimension	on 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	45-11/16(43-5/16 without	45-11/16(43-5/16 without	45-11/16(43-5/16 without		45-11/16(43-5/16 without
		in.	legs) x 34-11/16 x 21-11/16	legs) x 34-11/16 x 21-11/16	legs) x 34-11/16 x 21-11/16	legs) x 34-11/16 x 21-11/16	legs) x 34-11/16 x 21-11/16	legs) x 34-11/16 x 21-11/16
Protection	High pressure pro	tection	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 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)	R410A x 5.0kg (12lbs)	R410A x 5.0kg (12lbs)
Net weight		kg (lbs)	195(430)	195(430)	195(430)	195(430)	195(430)	195(430)
Heat exchanger			plate type	plate type	plate type	plate type	plate type	plate type
	Water volume in plate	L	5.0	5.0	5.0	5.0	5.0	5.0
	Water pressure Max.	MPa	2.0	2.0	2.0	2.0	2.0	2.0
Optional parts			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-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.)	0m (0ft.)	
Heating	20°CD.B. (68°FD.B.)	20°C (68°F)			

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

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

^{*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.

PURY-P YLM-A(-BS)

► Specifications



Model			PURY-P200YLM-A (-BS)	PURY-P250YLM-A (-BS)		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity	*1	kW	22.4	28.0		
(Nominal)		BTU / h	76,400	95,500		
(**************************************	Power input	kW	5.95	7.93		
	Current input	A	10.0-9.5-9.1	13.3-12.7-12.2		
	EER	kW / kW	3.76	3.53		
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)		
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)	-5.0~46.0°C (23~115°F)		
Heating capacity	*2		25.0	31.5		
(Nominal)		BTU / h	85,300	107,500		
(11011111101)	Power input	kW	6.54	8.65		
	Current input	A	11.0-10.4-10.1	14.6-13.8-13.3		
	COP	kW / kW	3.82	3.64		
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)		
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)		
Indoor unit	Total capacity	***.5.	50~150%	50~150% of outdoor unit capacity		
connectable	Model / Quantity		P15~P250/1~20	P15~P250/1~25		
Sound pressure le						
(measured in aned		dB <a>	59	60		
Sound power leve						
(measured in aned		dB <a>	82.5	83.5		
Refrigerant piping		mm (in.)	15.88 (5/8) Brazed	19.05 (3/4) Brazed		
diameter	Low pressure	mm (in.)	19.05 (3/4) Brazed	22.2 (7/8) Brazed		
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1		
IAN	Air flow rate m³/min		185	185		
	All llow rate	L/s	3,083	3,083		
		cfm	6,532	6,532		
	Driving mechanism		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor		
	Motor output kW		0.92 x 1	0.92 x 1		
*4	External static press.		0.92 X 1 0 Pa (0 mmH₂O)	0.92 X 1 0 Pa (0 mmH₂O)		
Compressor	Type x Quantity	C33.	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor		
Compressor	Starting method		Inverter	Inverter		
	Motor output	kW	5.6	6.9		
	Case heater	kW	5.0	0.9		
External finish	Case Healer	KVV	Pre-coated galvanized steel sheets	Pre-coated galvanized steel sheets		
External lillish			(+powder coating for -BS type)	(+powder coating for -BS type)		
			<pre><munsell 1="" 5y="" 8="" or="" similar=""></munsell></pre>	<pre></pre> <pre><munsell 1="" 5y="" 8="" or="" similar=""></munsell></pre>		
External dimension	n HxWxD	mm	1,710 (1,650 without legs) x 920 x 740	1,710 (1,650 without legs) x 920 x 740		
External almendid	TIATAD	in.	67-3/8 (65 without legs) x 36-1/4 x 29-3/16	67-3/8 (65 without legs) x 36-1/4 x 29-3/16		
Protection	High pressure pro			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
devices	Inverter circuit (CO		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection		
	Compressor		Over-heat protection	Over-heat protection		
	Fan motor		Over-current protection	Over-current protection		
Refrigerant	Type x original ch	narge	R410A x 9.5 kg (21 lbs)	R410A x 9.5 kg (21 lbs)		
Net weight	1 . , FO	kg (lbs)	205 (452)	205 (452)		
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube		
Optional parts			Joint: CMY-Y102SS-G2.CMY-Y102LS-G2.CMY-R160-J1	Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1		
optional parts			BC controller: CMB-P104,105,106,108,1010,1013,1016V-G1	BC controller: CMB-P104,105,106,108,1010,1013,1016V-G1		
			Main BC controller: CMB-P108,100,100,1013,1016V-GA1	Main BC controller: CMB-P108,100,100,1010,1013,1010V-GA1		
			Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1	Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1		
			111 11 11 11 11 11 11 11 11 11 11 11 11	1 111 11 111 1111 1111 1111 1111 1111 1111		

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/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)						
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)						

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

*4 External static pressure option is available (30°Pa, 60°Pa / 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.



PURY-P YLM-A(-BS)

► Specifications



Model			PURY-P300YLM-A (-BS)	PURY-P350YLM-A (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	33.5	40.0
(Nominal)	*1	BTU / h	114,300	136,500
(/	Power input	kW	9.82	12.69
	Current input	Α	16.5-15.7-15.1	21.4-20.3-19.6
	EER	kW / kW	3.41	3.15
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)	-5.0~46.0°C (23~115°F)
Heating capacity	*2	kW	37.5	45.0
(Nominal)		BTU / h	128,000	153,500
(/	Power input	kW	10.77	12.97
	Current input	Α	18.1-17.2-16.6	21.8-20.8-20.0
	COP	kW / kW	3.48	3.46
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit	Total capacity		50~150% of outdoor unit capacity	50~150% of outdoor unit capacity
connectable	Model / Quantity		P15~P250/1~30	P15~P250/1~35
Sound pressure le				
(measured in aned		dB <a>	62.5	62.5
Sound power leve				
(measured in aned		dB <a>	86	86
Refrigerant piping		mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed
diameter	Low pressure	mm (in.)	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1
. 7	Air flow rate	m³/min	230	230
	All now rate	L/s	3.833	3.833
		cfm	8,121	8,121
	Driving mechanism		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
	Motor output kW		0.92 x 1	0.92 x 1
*4	External static press.		0.62 X 1 0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)
Compressor	Type x Quantity	000.	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
oomprocoo.	Starting method		Inverter	Inverter
	Motor output	kW	8.1	10.5
	Case heater	kW	-	-
External finish	Cubb Houtor		Pre-coated galvanized steel sheets	Pre-coated galvanized steel sheets
LACTION IIIIST			(+powder coating for -BS type)	(+powder coating for -BS type)
			<munsell 1="" 5y="" 8="" or="" similar=""></munsell>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>
External dimension	n HxWxD	mm	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,220 x 740
		in.	67-3/8 (65 without legs) x 48-1/16 x 29-3/16	67-3/8 (65 without legs) x 48-1/16 x 29-3/16
Protection	High pressure pr		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
devices	Inverter circuit (CO		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection
	Fan motor		Over-current protection	Over-current protection
Refrigerant	Type x original ch	narge	R410A x 10.3 kg (23 lbs)	R410A x 10.3 kg (23 lbs)
Net weight	, . , p o x o g lai oi	kg (lbs)	248 (547)	248 (547)
Heat exchanger		3 (5)	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
Optional parts			Joint: CMY-Y102SS-G2.CMY-Y102LS-G2.CMY-R160-J1	Joint: CMY-Y102SS-G2.CMY-Y102LS-G2.CMY-R160-J1
Spanial parts			BC controller: CMB-P104,105,106,108,1010,1013,1016V-G1	BC controller: CMB-P104,105,106,108,1010,1013,1016V-G1
			Main BC controller: CMB-P108,100,100,1013,1016V-GA1	Main BC controller: CMB-P108,1010,1013,1016V-GA1
			Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1	Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1
		-	122 2 2 12 0 0 1 10 1, 100 1 05 1, 0 1 10 10 V 115 1	1 222 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

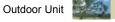
, 2 Normal conditions									
		Indoor	Outdoor	Pipe length	Level difference				
	Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)				
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)				

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

*4 External static pressure option is available (30°Pa, 60°Pa / 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.



PURY-P YSLM-A(-BS)

► Specifications



Model			PURY-P400YSLM-A (-BS)	PURY-P450YSLM-A (-BS)	PURY-P500YSLM-A (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	45.0	50.0	56.0
(Nominal)	*1	BTU / h	153,500	170,600	191,100
	Power input	kW	12.36	14.16	16.37
	Current input	Α	20.8-19.8-19.1	23.9-22.7-21.8	27.6-26.2-25.3
	EER	kW / kW	3.64	3.53	3.42
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°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 / I		170,600	191,100	215,000
	Power input	kW	13.08	15.01	17.30
	Current input A		22.0-20.9-20.2	25.3-24.0-23.2	29.2-27.7-26.7
	COP	kW / kW	3.82	3.73	3.64
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~P250/1~45	P15~P250/1~50
Sound pressure level (measured in anechoic room)		dB <a>	62	62.5	63
Sound power level (measured in anechoic room)		dB <a>	85.5	86	86.5
Refrigerant piping	High pressure	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed
		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-P200YLM-A (-BS)	PURY-P200YLM-A (-BS)	PURY-P200YLM-A (-BS)	PURY-P250YLM-A (-BS)	PURY-P250YLM-A (-BS)	PURY-P250YLM-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	m	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
*4	External static pro	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.6	5.6	5.6	6.9	6.9	6.9
	Case heater	kW	-	-	-	-	-	-
External finish			Pre-coated galvar	nized steel sheets	Pre-coated galva	nized steel sheets	Pre-coated galvar	nized steel sheets
				ng 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 colspan="2"><munsell 1="" 5y="" 8="" or="" similar=""> <munsell 1="" 5y="" 8="" or="" sin<="" td=""><td>8/1 or similar></td></munsell></munsell></td></munsell></td></munsell>	8/1 or similar>	<munsell 5y<="" td=""><td colspan="2"><munsell 1="" 5y="" 8="" or="" similar=""> <munsell 1="" 5y="" 8="" or="" sin<="" td=""><td>8/1 or similar></td></munsell></munsell></td></munsell>	<munsell 1="" 5y="" 8="" or="" similar=""> <munsell 1="" 5y="" 8="" or="" sin<="" td=""><td>8/1 or similar></td></munsell></munsell>		8/1 or similar>
External dimension	n HxWxD	mm		1,710 (1,650 without		1,710 (1,650 without		1,710 (1,650 without
			legs) x 920 x 740	legs) x 920 x 740	legs) x 920 x 740	legs) x 920 x 740	legs) x 920 x 740	legs) x 920 x 740
		in.			67-3/8 (65 without legs)		67-3/8 (65 without legs)	
		111.	x 36-1/4 x 29-3/16	x 36-1/4 x 29-3/16	x 36-1/4 x 29-3/16	x 36-1/4 x 29-3/16	x 36-1/4 x 29-3/16	x 36-1/4 x 29-3/16
Protection	High pressure pro	ntection		High pressure switch		, High pressure switch	High pressure sensor	
devices			at 4.15 MP		at 4.15 MPa (601 psi)		at 4.15 MPa (601 psi)	
	Inverter circuit (CO	MP./FAN)	Over-heat protection, (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			nt protection	Over-currer		Over-currer	
Refrigerant	Type x original ch	arge			R410A x 9.5 kg (21 lbs)		R410A x 9.5 kg (21 lbs)	R410A x 9.5 kg (21 lbs)
Net weight		kg (lbs)	205 (452)	205 (452)	205 (452)	205 (452)	205 (452)	205 (452)
Heat exchanger	Heat exchanger		Salt-resistant cross	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	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 ki			it: CMY-R100VBK-A		it: CMY-R100VBK-A
			Joint: CMY-Y102S-G2,CM		Joint: CMY-Y102S-G2,CM		Joint: CMY-Y102S-G2,CM	
			Main BC controller: CMB-P		Main BC controller: CMB-P			108,1010,1013,1016V-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

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/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)						
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)						

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

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

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

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



PURY-P YSLM-A(-BS)

► Specifications



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

alainoto.	zon procedio		20.00 (1. 1	70) B. a.z.o.a	20.00 (1.	70) Brazoa	20.00 (1.1	70) Brazoa
Set Model								
Model			PURY-P250YLM-A (-BS)	PURY-P300YLM-A (-BS)	PURY-P300YLM-A (-BS)	PURY-P300YLM-A (-BS)	PURY-P300YLM-A (-BS)	PURY-P350YLM-A (-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m³/min	185	230	230	230	230	230
		L/s	3,083	3,833	3,833	3,833	3,833	3,833
		cfm	6,532	8,121	8,121	8,121	8,121	8,121
	Driving mechanis	sm	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 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	6.9	8.1	8.1	8.1	8.1	10.5
	Case heater	kW	-	-	-	-	-	-
External finish				nized steel sheets		nized steel sheets		nized steel sheets
				ng for -BS type)		ng for -BS type)		ng for -BS type)
			<munsell 5y<="" td=""><td>' 8/1 or similar></td><td><munsell 5y<="" td=""><td>' 8/1 or similar></td><td><munsell 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	mm	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without
			legs) x 920 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740		legs) x 1,220 x 740	
		in.			67-3/8 (65 without legs)			
			x 36-1/4 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16
Protection	High pressure pre	otection		, High pressure switch		, High pressure switch		, High pressure switch
devices				a (601 psi)	at 4.15 MP			a (601 psi)
	Inverter circuit (CO	MP./FAN)		Over-current protection	Over-heat protection, (Over-current protection
	Compressor			Over-heat protection		Over-heat protection		Over-heat protection
	Fan motor			nt protection	Over-currer			nt protection
Refrigerant	Type x original ch				R410A x 10.3 kg (23 lbs)			
Net weight		kg (lbs)	205 (452)	248 (547)	248 (547)	248 (547)	248 (547)	248 (547)
Heat exchanger		Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube		s fin & copper tube	
Pipe between unit	High pressure	mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	19.05 (3/4)	19.05 (3/4) Brazed	19.05 (3/4) Brazed
and distributor	Low pressure	mm (in.)	22.2 (7/8) Brazed	_	22.2 (7/8) Brazed	_	22.2 (7/8) Brazed	_
Optional parts				it: CMY-R100VBK2		it: CMY-R100VBK2		it: CMY-R100VBK2
				Y-Y102LS-G2,CMY-R160-J1	Joint: CMY-Y102SS-G2,CM			
					Main BC controller: CMB-P			108,1010,1013,1016V-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

١,	, 2 Nominal Conditions									
		Indoor	Outdoor	Pipe length	Level difference					
	Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)					
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)					

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

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

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

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

PURY-P YSLM-A(-BS)

► Specifications



Model			PURY-P700YSLM-A (-BS)	PURY-P750YSLM-A (-BS)	PURY-P800YSLM-A (-BS)
Power source		3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity	*1	kW	80.0	85.0	90.0
(Nominal)	*1	BTU / h	273,000	290,000	307,100
	Power input	kW	26.22	28.23	30.30
	Current input	Α	44.2-42.0-40.5	47.6-45.2-43.6	51.1-48.5-46.8
	EER	kW / kW	3.05	3.01	2.97
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	90.0	90.0
(Nominal)	*2 BTU /		300,300	307,100	307,100
	Power input	kW	25.43	25.49	24.93
	Current input	Α	42.9-40.7-39.3	43.0-40.8-39.4	42.0-39.9-38.5
	COP	kW / kW	3.46	3.53	3.61
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
heating *3	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit	Total capacity		50~150% of outdoor unit capacity	50~150% of outdoor unit capacity	50~150% of outdoor unit capacity
connectable	Model / Quantity		P15~P250/2~50	P15~P250/2~50	P15~P250/2~50
Sound pressure level (measured in anechoic room) Sound power level (measured in anechoic room)		dB <a>	65.5	65.5	65.5
		dB <a>	89	89	89
Refrigerant piping	High pressure	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
diameter	Low pressure	mm (in.)	34.93 (1-3/8) Brazed	34.93 (1-3/8) Brazed	34.93 (1-3/8) Brazed
Set Model			,		

Set Model				,				,
Model			PURY-P350YLM-A (-BS)	PURY-P350YLM-A (-BS)	PURY-P350YLM-A (-BS)	PURY-P400YLM-A (-BS)	PURY-P400YLM-A (-BS)	PURY-P400YLM-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	230	230	230	230	230	230
		L/s	3,833	3,833	3,833	3,833	3,833	3,833
		cfm	8,121	8,121	8,121	8,121	8,121	8,121
	Driving mechanis	m	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
*4	External static pro	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	10.5	10.5	10.5	10.9	10.9	10.9
	Case heater	kW	-	-	-	-	-	-
External finish				nized steel sheets ng for -BS type) ' 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>	
External dimension	n HxWxD	mm	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,220 x 740
		in.	67-3/8 (65 without legs) x 48-1/16 x 29-3/16	67-3/8 (65 without legs) x 48-1/16 x 29-3/16	67-3/8 (65 without legs) x 48-1/16 x 29-3/16	67-3/8 (65 without legs) x 48-1/16 x 29-3/16	67-3/8 (65 without legs) x 48-1/16 x 29-3/16	67-3/8 (65 without legs) x 48-1/16 x 29-3/16
Protection devices	High pressure pro	otection	High pressure sensor, at 4.15 MP	High pressure switch (601 psi)	High pressure sensor at 4.15 MP			, High pressure switch a (601 psi)
	Inverter circuit (CO	MP./FAN)	Over-heat protection, (Over-current protection	Over-heat protection, 0	Over-current protection	Over-heat protection,	Over-current protection
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
	Fan motor			nt protection		nt protection		nt protection
Refrigerant	Type x original ch	narge	R410A x 10.3 kg (23 lbs)	R410A x 10.3 kg (23 lbs)	R410A x 10.3 kg (23 lbs)	R410A x 10.3 kg (23 lbs)	R410A x 10.3 kg (23 lbs)	R410A x 10.3 kg (23 lbs)
Net weight		kg (lbs)	248 (547)	248 (547)	248 (547)	246 (543)	246 (543)	246 (543)
Heat exchanger		Salt-resistant cross		Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube	
Pipe between unit and distributor Low pressure mm (in.) Optional parts		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
		mm (in.)	28.58 (1-1/8) Brazed	_	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed	
			it: CMY-R200VBK2		it: CMY-R200VBK2		kit: CMY-R200VBK2	
			Main BC controller:	CMB-P1016V-HA1	Joint: CMY-Y102SS-G2,CM Main BC controller: Sub BC controller: CMB-P104	CMB-P1016V-HA1	Main BC controller:	CMB-P1016V-HA1
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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/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)						
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)						

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

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

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

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



PURY-P YSLM-A(-BS)



► Specifications

Model			PURY-P850YSLM-A (-BS)	PURY-P900YSLM-A (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	96.0	101.0
(Nominal)	*1	BTU / h	327,600	344,600
	Power input	kW	31.16	31.56
	Current input	Α	52.6-49.9-48.1	53.2-50.6-48.7
	EER	kW / kW	3.08	3.20
Temp. range of	Indoor	W.B.	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)
Heating capacity	*2	kW	101.0	113.0
(Nominal)	*2	BTU / h	344,600	385,600
	Power input	kW	28.53	32.47
	Current input	Α	48.1-45.7-44.1	54.8-52.0-50.1
	COP	kW / kW	3.54	3.48
Temp. range of	Indoor	D.B.	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)
Indoor unit	Total capacity		50~150% of outdoor unit capacity	50~150% of outdoor unit capacity
connectable	Model / Quantity		P15~P250/2~50	P15~P250/2~50
Sound pressure le	vel	dB <a>	65.5	65.5
(measured in aned	choic room)	ub \A>	00.5	05.5
Sound power level		dB <a>	89	89
(measured in aned	choic room)	ub <a>	09	89
Refrigerant piping	High pressure	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
diameter	Low pressure	mm (in.)	41.28 (1-5/8) Brazed	41.28 (1-5/8) Brazed

ulametei			41.20 (1-3	vo) brazeu	41.28 (1-5/6) Blazeu				
Set Model									
Model		PURY-P400YLM-A (-BS)	PURY-P450YLM-A (-BS)	PURY-P450YLM-A (-BS)	PURY-P450YLM-A (-BS)				
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2			
	Air flow rate	m³/min	230	320	320	320			
		L/s	3,833	5,333	5,333	5,333			
		cfm	8,121	11,299	11,299	11,299			
	Driving mechanis	sm	Inverter-control, Dir	rect-driven by motor	Inverter-control, Dir	Inverter-control, Direct-driven by motor			
	Motor output	kW	0.92 x 1	0.92 x 2	0.92 x 2	0.92 x 2			
*4	External static pr	ress.	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)			
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor			
	Starting method		Inverter	Inverter	Inverter	Inverter			
	Motor output	kW	10.9	12.4	12.4	12.4			
	Case heater	kW	_	_	_	_			
External finish	External finish		Pre-coated galva	nized steel sheets	Pre-coated galvanized steel sheets				
				ing 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></munsell></td></munsell>	/ 8/1 or similar>	<munsell 5y<="" td=""><td>' 8/1 or similar></td></munsell>	' 8/1 or similar>			
External dimensio	n HxWxD	mm	1,710 (1,650 without legs)	1,710 (1,650 without legs)	1,710 (1,650 without legs)	1,710 (1,650 without legs)			
			x 1,220 x 740	x 1,750 x 740	x 1,750 x 740	x 1,750 x 740			
			in.	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)	67-3/8 (65 without legs)		
			x 48-1/16 x 29-3/16	x 68-15/16 x 29-3/16	x 68-15/16 x 29-3/16	x 68-15/16 x 29-3/16			
Protection	High pressure pr				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				
devices	Inverter circuit (CC	MP./FAN)		Over-current protection		Over-current protection			
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection			
	Fan motor		Over-current protection	Over-current protection	Over-current protection	Over-current protection			
Refrigerant	Type x original c		R410A x 10.3 kg (23 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)			
Net weight		kg (lbs)	246 (543)	321 (708)	321 (708)	321 (708)			
Heat exchanger				s fin & copper tube		s fin & copper tube			
Pipe between unit	High pressure	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed			
and distributor	Low pressure	mm (in.)	28.58 (1-1/8) Brazed	_	28.58 (1-1/8) Brazed	_			
Optional parts				it: CMY-R200XLVBK	Outdoor Twinning ki	it: CMY-R200XLVBK			
				Y-Y102LS-G2,CMY-R160-J1		Y-Y102LS-G2,CMY-R160-J1			
				CMB-P1016V-HA1		CMB-P1016V-HA1			
			Sub BC controller: CMB-P104	,108V-GB1,CMB-P1016V-HB1	Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1				

٠,	, 2 Normal conditions										
		Indoor	Indoor Outdoor		Level difference						
	Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)						
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)						

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

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

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

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



► Specifications

Model			PURY-EP200YLM-A (-BS)	PURY-EP250YLM-A (-BS)	PURY-EP300YLM-A (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	22.4	28.0	33.5
(Nominal)	*1	BTU / h	76,400	95,500	114,300
	Power input	kW	5.48 7.25		9.20
	Current input	Α	9.2-8.7-8.4	12.2-11.6-11.2	15.5-14.7-14.2
	EER	kW / kW	4.08 3.86		3.64
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling *3	Outdoor	D.B.	-5.0~46.0°C (23~115°F)	-5.0~46.0°C (23~115°F)	-5.0~46.0°C (23~115°F)
Heating capacity	*2		25.0	31.5	37.5
(Nominal)	*2	BTU / h	85,300	107,500	128,000
,	Power input	kW	6.41	8.45	9.97
	Current input	Α	10.8-10.2-9.9	14.2-13.5-13.0	16.8-15.9-15.4
COP		kW / kW	3.90	3.72	3.76
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
heating *3	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%	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	dB <a>	50	60	62.5
(measured in aned	choic room)	an <	59	60	62.5
Sound power level	ĺ	dB <a>	92.5	83.5	86
(measured in aned	choic room)	an <	82.5		86
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	230
		L/s	3,083	3,083	3,833
		cfm	6,532	6,532	8,121
	Driving mechanis	m	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1
*4	External static pro	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 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	5.6	6.9	8.1
	Case heater	kW	_	_	_
External finish			Pre-coated galvanized steel sheets	Pre-coated galvanized steel sheets	Pre-coated galvanized steel sheets
			(+powder coating for -BS type)	(+powder coating for -BS type)	(+powder coating for -BS type)
			<munsell 1="" 5y="" 8="" or="" similar=""></munsell>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>
External dimension	n HxWxD	mm	1,710 (1,650 without legs) x 920 x 740	1,710 (1,650 without legs) x 920 x 740	1,710 (1,650 without legs) x 1,220 x 740
		in.	67-3/8 (65 without legs) x 36-1/4 x 29-3/16	67-3/8 (65 without legs) x 36-1/4 x 29-3/16	
Protection	High pressure pro	otection	High pressure sensor, High pressure switch	High pressure sensor, High pressure switch	
devices			at 4.15 MPa (601 psi)	at 4.15 MPa (601 psi)	at 4.15 MPa (601 psi)
	Inverter circuit (CO	MP./FAN)	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection
D (: 1	Fan motor		Over-current protection	Over-current protection	Over-current protection
Refrigerant	Type x original ch		R410A x 8.5 kg (19 lbs)	R410A x 8.5 kg (19 lbs)	R410A x 9.3 kg (21 lbs)
Net weight		kg (lbs)	218 (481)	218 (481)	260 (574)
Heat exchanger			Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube
Optional parts			Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1	Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1	Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1
			BC controller: CMB-P104,105,106,108,1010,1013,1016V-G1 Main BC controller: CMB-P108,1010,1013,1016V-GA1	BC controller: CMB-P104,105,106,108,1010,1013,1016V-G1 Main BC controller: CMB-P108,1010,1013,1016V-GA1	BC controller: CMB-P104,105,106,108,1010,1013,1016V-G1
					Main BC controller: CMB-P108,1010,1013,1016V-GA1
,			OUD DO CONTROLLES. CIVID-F 104, 100V-GD 1, CIVID-F 10 10V-FB 1	Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1	JUL DO CONTROLLE . CIVID-F 104, 100 V-GD 1, CIVID-P 10 10 V-FB 1

٠,	, 2 Normal conditions										
		Indoor	Indoor Outdoor		Level difference						
	Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)						
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)						

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

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

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

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





► Specifications

Model			PURY-EP350YLM-A (-BS)	PURY-EP400YLM-A (-BS)	PURY-EP450YLM-A (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity *1 kW		40.0	45.0	50.0	
(Nominal)	*1	BTU / h	136,500	153,500	170,600
	Power input	kW	12.57	12.56	14.83
	Current input	Α	21.2-20.1-19.4	21.2-20.1-19.4	25.0-23.7-22.9
	EER	kW / kW	3.18	3.58	3.37
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling *3	Outdoor	D.B.	-5.0~46.0°C (23~115°F)	-5.0~46.0°C (23~115°F)	-5.0~46.0°C (23~115°F)
Heating capacity	*2	kW	45.0	50.0	56.0
(Nominal) *2 BTU / h		BTU / h	153,500	153,500 170,600	
Current input A		kW	12.93	13.40	15.86
		Α	21.8-20.7-19.9	22.6-21.4-20.7	26.7-25.4-24.5
	COP	kW / kW	3.48	3.73	3.53
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
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~P250/1~35	P15~P250/1~40	P15~P250/1~45
Sound pressure le					
(measured in aneo	choic room)	dB <a>	62.5	62.5	62.5
Sound power level (measured in anec		dB <a>	86	86	86
Refrigerant piping		mm (in.)	19.05 (3/4) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed
diameter	Low pressure	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2
1744	Air flow rate	m³/min	230	320	320
	All How rate	L/s	3.833	5,333	5,333
		cfm	8,121	11.299	11,299
	Driving mechanism		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
	Motor output kW		0.92 x 1	0.92 x 2	0.92 x 2
*4	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	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
Compressor	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	10.5	10.9	12.4
	Case heater	kW	-	-	_
External finish	Odde Heddel		Pre-coated galvanized steel sheets	Pre-coated galvanized steel sheets	Pre-coated galvanized steel sheets
LAternal lillion			(+powder coating for -BS type)	(+powder coating for -BS type)	(+powder coating for -BS type)
			<munsell 1="" 5y="" 8="" or="" similar=""></munsell>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>
External dimension	n HxWxD	mm	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,750 x 740	1,710 (1,650 without legs) x 1,750 x 740
		in.	67-3/8 (65 without legs) x 48-1/16 x 29-3/16		67-3/8 (65 without legs) x 68-15/16 x 29-3/16
Protection	High pressure pro	otection	High pressure sensor, High pressure switch	High pressure sensor, High pressure switch	High pressure sensor, High pressure switch
devices			at 4.15 MPa (601 psi)	at 4.15 MPa (601 psi)	at 4.15 MPa (601 psi)
	Inverter circuit (CO	MP./FAN)	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection
Fan motor			Over-current protection	Over-current protection	Over-current protection
Refrigerant	Type x original ch		R410A x 9.3 kg (21 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)
Net weight		kg (lbs)	260 (574)	338 (746)	338 (746)
Heat exchanger			Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube
Optional parts			Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1	Joint: CMY-Y102SS-G2.CMY-Y102LS-G2.CMY-R160-J1	Joint: CMY-Y102SS-G2.CMY-Y102LS-G2.CMY-R160-J1
			BC controller: CMB-P104,105,106,108,1010,1013,1016V-G1	Main BC controller: CMB-P108,1010,1013,1016V-GA1	Main BC controller: CMB-P108,1010,1013,1016V-GA1
			Main BC controller: CMB-P108,1010,1013,1016V-GA1	Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1	Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1
	-		Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

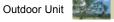
٠,	, 2 Normal conditions										
		Indoor	Indoor Outdoor		Level difference						
	Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)						
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)						

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

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

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

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





► Specifications

Model			PURY-EP500YSLM-A (-BS)	PURY-EP550YSLM-A (-BS)	PURY-EP600YSLM-A (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	56.0	63.0	69.0
(Nominal)	*1	BTU / h	191,100	215,000	235,400
	Power input	kW	14.97	17.35	19.54
	Current input	Α	25.2-24.0-23.1	29.2-27.8-26.8	32.9-31.3-30.2
	EER	kW / kW	3.74	3.63	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 *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	16.93	18.44	20.34
	Current input	Α	28.5-27.1-26.1	31.1-29.5-28.5	34.3-32.6-31.4
	COP	kW / kW	3.72	3.74	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~P250/1~50	P15~P250/2~50	P15~P250/2~50
Sound pressure le (measured in anec		dB <a>	63	64.5	65.5
Sound power leve (measured in aned	dB < A>		86.5	88	89
Refrigerant piping	High pressure	mm (in.)	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
diameter	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-EP250YLM-A (-BS)	PURY-EP250YLM-A (-BS)	PURY-EP250YLM-A (-BS)	PURY-EP300YLM-A (-BS)	PURY-EP300YLM-A (-BS)	PURY-EP300YLM-A (-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m³/min	185	185	185	230	230	230
		L/s	3,083	3,083	3,083	3,833	3,833	3,833
		cfm	6,532	6,532	6,532	8,121	8,121	8,121
	Driving mechanis	m	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 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	6.9	6.9	6.9	8.1	8.1	8.1
	Case heater	kW	-	-	-	-	-	_
External finish	External finish		(+powder coating	coated galvanized steel sheets Pre-coated galvanized steel sheets powder coating for -BS type) (+powder coating for -BS type) (MUNSELL 5Y 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 740	1,710 (1,650 without legs) x 920 x 740	1,710 (1,650 without legs) x 920 x 740	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,220 x 740
		in.	67-3/8 (65 without legs) x 36-1/4 x 29-3/16	67-3/8 (65 without legs) x 36-1/4 x 29-3/16	67-3/8 (65 without legs) x 36-1/4 x 29-3/16	67-3/8 (65 without legs) x 48-1/16 x 29-3/16	67-3/8 (65 without legs) x 48-1/16 x 29-3/16	67-3/8 (65 without legs) x 48-1/16 x 29-3/16
Protection devices	High pressure pr	otection	High pressure sensor, at 4.15 MP		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (CO	MP./FAN)	Over-heat protection, (Over-current protection	Over-heat protection, 0	Over-current protection	Over-heat protection,	Over-current protection
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
	Fan motor		Over-currer	t protection	Over-currer	nt protection	Over-currer	nt protection
Refrigerant	Type x original cl	narge	R410A x 8.5 kg (19 lbs)	R410A x 8.5 kg (19 lbs)	R410A x 8.5 kg (19 lbs)	R410A x 9.3 kg (21 lbs)	R410A x 9.3 kg (21 lbs)	R410A x 9.3 kg (21 lbs)
Net weight		kg (lbs)	218 (481)	218 (481)	218 (481)	260 (574)	260 (574)	260 (574)
Heat exchanger			Salt-resistant cross t	fin & aluminium tube	Salt-resistant cross	fin & aluminium tube	Salt-resistant cross	fin & aluminium 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)
and distributor	Low pressure	mm (in.)	22.2 (7/8) Brazed	-	22.2 (7/8) Brazed	-	22.2 (7/8) Brazed	_
Optional parts				: CMY-ER100VBK-A		it: CMY-ER200VBK		it: CMY-ER200VBK
			Joint: CMY-Y102S-G2,CM		Joint: CMY-Y102SS-G2,CM			Y-Y102LS-G2,CMY-R160-J1
			Main BC controller: CMB-P		Main BC controller: CMB-P			108,1010,1013,1016V-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

١,	2 Nonlinal Conditions										
		Indoor	Outdoor	Pipe length	Level difference						
	Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)						
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)						

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

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



 $^{^*4}$ External static pressure option is available (30Pa, 60Pa / 3.1mmHzO, 6.1mmHzO). *Nominal condition *1,*2 are subject to JIS B8615-1.



► Specifications

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

Model			PURY-EP300YLM-A (-BS)	PURY-EP350YLM-A (-BS)	PURY-EP350YLM-A (-BS)	PURY-EP350YLM-A (-BS)	PURY-EP350YLM-A (-BS)	PURY-EP400YLM-A (-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2
	Air flow rate	m³/min	230	230	230	230	230	320
	7 11017 1410	L/s	3.833	3.833	3.833	3.833	3.833	5.333
		cfm	8.121	8.121	8.121	8.121	8.121	11.299
	Driving mechanis		Inverter-control, Dir			ect-driven by motor		ect-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 2
*4	External static pre		0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity			metic compressor		metic compressor		metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	8.1	10.5	10.5	10.5	10.5	10.9
	Case heater	kW	-	-	-	-	-	-
External finish			Pre-coated galvar	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></td><td></td><td>' 8/1 or similar></td><td></td><td>' 8/1 or similar></td></munsell>			' 8/1 or similar>		' 8/1 or similar>
External dimension	n HxWxD	mm		1,710 (1,650 without		1,710 (1,650 without		1,710 (1,650 without
			legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	legs) x 1,750 x 740
		in.	67-3/8 (65 without legs)		67-3/8 (65 without legs)		67-3/8 (65 without legs)	
		111.	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 68-15/16 x 29-3/16
Protection	High pressure pro	ntection		, High pressure switch		, High pressure switch		, High pressure switch
devices			at 4.15 MP	a (601 psi)	at 4.15 MPa (601 psi)		at 4.15 MPa (601 psi)	
	Inverter circuit (CO	MP./FAN)	Over-heat protection, (Over-current protection		Over-current protection
	Compressor			Over-heat protection		Over-heat protection		Over-heat protection
	Fan motor			nt protection		nt protection		nt protection
Refrigerant	Type x original ch	arge				R410A x 9.3 kg (21 lbs)		R410A x 11.8 kg (27 lbs)
Net weight		kg (lbs)	260 (574)	260 (574)	260 (574)	260 (574)	260 (574)	338 (746)
Heat exchanger				fin & aluminium tube	Salt-resistant cross		Salt-resistant cross	fin & aluminium tube
Pipe between unit		mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	22.2 (7/8) Brazed
and distributor	Low pressure	mm (in.)	22.2 (7/8) Brazed	_	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed	-
Optional parts				tit: CMY-ER200VBK		tit: CMY-ER200VBK		tit: CMY-ER200VBK
			Joint: CMY-Y102SS-G2,CM		Joint: CMY-Y102SS-G2,CM			Y-Y102LS-G2,CMY-R160-J1
			Main BC controller: CMB-P			CMB-P1016V-HA1	Main BC controller:	
			Sub BC controller: CMB-P104	,108V-GB1,CMB-P1016V-HB1	Sub BC controller: CMB-P104	,108V-GB1,CMB-P1016V-HB1	Sub BC controller: CMB-P104	,108V-GB1,CMB-P1016V-HB1

1, 2 Norminal Conditions									
		Indoor	Outdoor	Pipe length	Level difference				
	Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)				
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)				

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

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

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

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



► Specifications

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

Set Model								
Model			PURY-EP400YLM-A (-BS)	PURY-EP400YLM-A (-BS)	PURY-EP400YLM-A (-BS)	PURY-EP450YLM-A (-BS)	PURY-EP450YLM-A (-BS)	PURY-EP450YLM-A (-BS)
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Air flow rate	m³/min	320	320	320	320	320	320
		L/s	5,333	5,333	5,333	5,333	5,333	5,333
		cfm	11,299	11,299	11,299	11,299	11,299	11,299
	Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2
*4	External static 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	Type x Quantity		metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	10.9	10.9	10.9	12.4	12.4	12.4
	Case heater	kW	-	-	-	-	-	-
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>	
External dimension	n HxWxD	mm	1,710 (1,650 without legs) x 1,750 x 740	1,710 (1,650 without legs) x 1,750 x 740	1,710 (1,650 without legs) x 1,750 x 740	1,710 (1,650 without legs) x 1,750 x 740	1,710 (1,650 without legs) x 1,750 x 740	1,710 (1,650 without legs) x 1,750 x 740
		in.			67-3/8 (65 without legs) x 68-15/16 x 29-3/16		67-3/8 (65 without legs) x 68-15/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, (Over-current protection	Over-heat protection, (Over-current protection	Over-heat protection,	Over-current protection
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
	Fan motor		Over-current protection		Over-current protection		Over-current protection	
Refrigerant	Type x original ch	narge	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)
Net weight		kg (lbs)	338 (746)	338 (746)	338 (746)	338 (746)	338 (746)	338 (746)
Heat exchanger			Salt-resistant cross	fin & aluminium tube	Salt-resistant cross	fin & aluminium tube	Salt-resistant cross	fin & aluminium tube
Pipe between unit	High pressure	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed
and distributor	Low pressure	mm (in.)	28.58 (1-1/8) Brazed	_	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed	
Optional parts				it: CMY-ER200VBK		it: CMY-ER200VBK		it: CMY-ER200VBK
		Joint: CMY-Y102SS-G2,CM		MY-R160-J1 Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1 Joint: CMY-Y102SS-G2,CMY-Y102LS-C				
		Main BC controller: CMB-P1016V-HA1 Main BC controller: CMB-P1016V-HA1 Main BC controller: CMB-P						
		Sub BC controller: CMB-P104	,108V-GB1,CMB-P1016V-HB1	Sub BC controller: CMB-P104	,108V-GB1,CMB-P1016V-HB1	Sub BC controller: CMB-P104	,108V-GB1,CMB-P1016V-HB1	

١,	, 2 Nominal Conditions								
		Indoor	Outdoor	Pipe length	Level difference				
	Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)				
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)				

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

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

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

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



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





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	
connectable	Model / Quantity		P15~P250 / 1~20	P15~P250 / 1~25	P15~P250 / 1~30	
Sound pressure le	vel	dB <a>	47	49	50	
(measured in aned		ub 1/1		-		
Refrigerant piping	High pressure	mm (in.)	15.88(5/8) Brazed	19.05(3/4) Brazed	19.05(3/4) Brazed	
diameter [O.D.]	Low pressure	mm (in.)	19.05(3/4) Brazed	22.2(7/8) Brazed	22.2(7/8) Brazed	
Circulating water	Water flow rate	m ³ / h	5.76	5.76	5.76	
		L/min	96	96	96	
		cfm	3.4	3.4	3.4	
	Pressure drop	kPa	17	17	17	
	Operating volume range m³ / h		4.5 ~ 7.2	4.5 ~ 7.2	4.5 ~ 7.2	
Compressor	Type x Quantity	•	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	
	Starting method		Inverter	Inverter	Inverter	
	Motor output	kW	4.6	6.3	7.4	
	Case heater	kW	0.035(240 V)	0.035(240 V)	0.035(240 V)	
External finish	,		Acrylic painted steel plate	Acrylic painted steel plate	Acrylic painted steel plate	
External dimension	n HxWxD	mm	1,160(1,100 without legs) x 880 x 550	1,160(1,100 without legs) x 880 x 550	1,160(1,100 without legs) x 880 x 550	
		in.	45-11/16(43-5/16 without legs) x 34-11/16 x 21-11/16	45-11/16(43-5/16 without legs) x 34-11/16 x 21-11/16	45-11/16(43-5/16 without legs) x 34-11/16 x 21-11/16	
Protection	High pressure pro	ntection		High pressure sensor, High pressure switch at 4.15MPa (601 psi)		
devices	Inverter circuit (C			Over-heat protection, Over-current protection		
devides	Compressor	O	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	Type x original or	kg (lbs)	181(400)	181(400)	181(400)	
Heat exchanger			plate type	plate type	plate type	
ricat exonanger	Water volume in plate	L	5.0	5.0	5.0	
	Water pressure Max.	MPa	2.0	2.0	2.0	
Optional parts			Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-R160-J1	Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-Y202S-G2,CMY-R160-J1	Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-Y202S-G2.CMY-R160-J1	

Notes:

*1,*2 Nominal conditions

١,	2 Nominal conditio	ns			
		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 (Off.)
	Heating	20°CD.B. (68°FD.B.)	20°C (68°F)]	

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

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

^{*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





Model			PQRY-P400	YSHM-A	PQRY-P48	OYSHM-A	PQRY-P50	0YSHM-A	
Power source			3-phase 4-wire 380-4	00-415V 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	8.32	!	9.	94	11.	57	
	Current input	Α	14.0-13.3-12.8		16.7-15	16.7-15.9-15.3		.5-17.8	
	EER	kW / kW	V 5.40 5.03		4.8	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°0	C(59~75°F)	
cooling	Circulating water	°C	10.0~45.0°C(5	50~113°F)	10.0~45.0°C	C(50~113°F)	10.0~45.0°C	C(50~113°F)	
Heating capacity *2		kW	50.0		56	5.0	63	.0	
		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	6.7-16.1	20.3-19	.3-18.6	
	COP	kW / kW	5.78		5.	37	5.2	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°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 sou	urce unit capacity	50~150 % of heat source unit capacity		50~150 % of heat source unit capacity		
connectable	Model / Quantity		P15~P250	/ 1~40	P15~P250 / 1~45		P15~P250 / 1~50 (Connectable branch pipe number is max. 4		
Sound pressure le (measured in aned		dB <a>	50		5	1	52		
Refrigerant piping	High pressure	mm (in.)	22.2(7/8) E	Brazed	22.2(7/8) Brazed	22.2(7/8) Brazed	
diameter [O.D.]	Low pressure	mm (in.)	28.58(1-1/8)	Brazed	28.58(1-1	/8) Brazed	28.58(1-1/	8) Brazed	
Set Model					•		•		
Model			PQRY-P200YHM-A	PQRY-P200YHM-A	PQRY-P250YHM-A	PQRY-P200YHM-A	PQRY-P250YHM-A	PQRY-P250YHM-A	
Circulating water	Water flow rate	m³/h	5.76 + 5	5.76	5.76 -	+ 5.76	5.76 +	- 5.76	
		L/min	96 + 9	96	96 -	+ 96	96 + 96		
		cfm	3 4 ± 3	2.4	3.4.	3 /	3.4.	2.4	

Set Model										
Model			PQRY-P200YHM-A	PQRY-P200YHM-A	PQRY-P250YHM-A	PQRY-P200YHM-A	PQRY-P250YHM-A	PQRY-P250YHM-A		
Circulating water	Water flow rate	m ³ / h	5.76 +	+ 5.76	5.76 -	+ 5.76	5.76 -	+ 5.76		
		L/min	96 +	+ 96	96 -	+ 96	96 -	+ 96		
		cfm	3.4 +	+ 3.4	3.4 +	+ 3.4	3.4 -	+ 3.4		
	Pressure drop	kPa	17	17	17	17	17	17		
	Operating volume range	m ³ / h	4.5 + 4.5 ~ 7.2 + 7.2		4.5 + 4.5	~ 7.2 + 7.2	4.5 + 4.5	7.2 + 7.2		
Compressor	Type x Quantity	•	Inverter scroll 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 painted steel plate		Acrylic painted steel plate		Acrylic painted steel plate			
External dimensio	External dimension HxWxD		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		
		mm	legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550	legs) x 880 x 550		
		in.	45-11/16(43-5/16 without	45-11/16(43-5/16 without	45-11/16(43-5/16 without	45-11/16(43-5/16 without	45-11/16(43-5/16 without	45-11/16(43-5/16 without		
		In.	legs) x 34-11/16 x 21-11/16	legs) x 34-11/16 x 21-11/16	legs) x 34-11/16 x 21-11/16	legs) x 34-11/16 x 21-11/16	legs) x 34-11/16 x 21-11/16	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	OMP.)	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	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				g kit: CMY-Q100VBK S-G2,CMY-Y202S-G2,CMY-R160-J1		g kit: CMY-Q100VBK S-G2,CMY-Y202S-G2,CMY-R160-J1	Heat Source Twinnin Joint: CMY-Y102SS-G2,CMY-Y102L	g kit: CMY-Q100VBK S-G2,CMY-Y202S-G2,CMY-R160-J1		

^{*1.*2} Nominal conditions

, 2 11011111101 001101110				
	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 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





Model			PQRY-P550YSHM-A	PQRY-P600YSHM-A
Power source			3-phase 4-wire 380-400-415V 50/60Hz	3-phase 4-wire 380-400-415V 50/60Hz
Cooling capacity	*1	kW	63.0	69.0
(Nominal)	*1	BTU / h	215,000	235,400
	Power input	kW	13.60	15.62
	Current input	Α	22.9-21.8-21.0	26.3-25.0-24.1
	EER	kW / kW	4.63	4.41
Temp. range of	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
cooling	Circulating water	°C	10.0~45.0°C(50~113°F)	10.0~45.0°C(50~113°F)
Heating capacity	*2	kW	69.0	76.5
(Nominal)	*2	BTU / h	235,400	261,000
	Power input	kW	14.65	17.12
	Current input	Α	24.7-23.4-22.6	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(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
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 aned		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	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	rmetic compressor		
	Starting method		Inverter	Inverter	Inverter	Inverter		
Motor output Case heater		kW	7.4	6.3	7.4	7.4		
		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	ed steel plate		
External dimension	External dimension HxWxD mm		1,160(1,100 without legs) x 880		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	High pressure sensor, High pressure 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	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 MPa		2.0	2.0	2.0	2.0		
Optional parts				g kit: CMY-Q100VBK S-G2,CMY-Y202S-G2,CMY-R160-J1	Heat Source Twinning kit: CMY-Q100VBK Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-Y202S-G2,CMY-R160-J1			

Notes:

*1 *2 Nominal conditions

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

^{*3} The ambient temperature of the heat source unit needs to be kept below 40°CD.B. *4 The ambient relative humidity of the heat source unit needs to be kept below 80%.

^{*4} The ambient relative humidity of the near source unit needs to be kept below to no.
*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.



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
- Description
- OA Processing Units

Wide Selection of Indoor Units

Тур	е	Model name	Model	P15	P20	P25	
	4-way air flow	PLFY-P VBM-E Page80 - Page81					
Ceiling Cassette	 	PLFY-P VCM-E2 Page80 - Page81					:
	2-way air flow	PLFY-P VLMD-E Page82 - Page83				<u> </u>	
	1-way air flow	PMFY-P VBM-E					1
						1	1
		PEFY-P VMS1(L)-E			! !		I I
Ceiling Concealed	d	PEFY-P VMA(L)-E				1	
		PEFY-P VMH(S)-E			 		! ! ! ! !
	Fresh Air Intake	PEFY-P VMH-E-F			 		
Ceiling Suspende	d	PCFY-P VKM-E			 		
		PKFY-P VBM-E Page98 - Page99			 	1	
Wall Mounted	Wall Mounted Floor Standing/ Floor Mounted Concealed)———		! ! ! ! ! !		1 1 1 1 1 1
					: 		
Floor Standing/ Floor Mounted Co							
		PFFY-P VLRM-E PFFY-P VLRMM-E			7	!	

	P32	P40	P50	P63	P71	P80	D100	P125	P140	P200	P250
	F 32				F / I	100	1 100	1123	1 140	1 200	F 250
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INDOOR UNIT Ceiling cassette type 4-way airflow

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





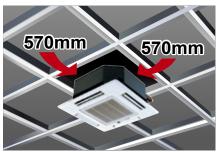
PLFY-P VBM

PLFY-P VCM

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



Compact body to match with 2 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)



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

Draft-less Air Distribution

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



*Default

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

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

Cooling softly with Wide Air Flow

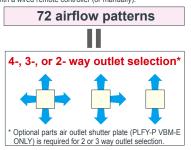
Discharge air reaches wider area and the fan speed is decreased by 20% thanks to the new wide shape air outlet.

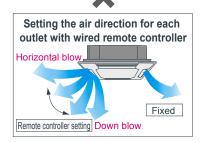


72 patterns of airflow to accommodate any room layout are available.

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

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

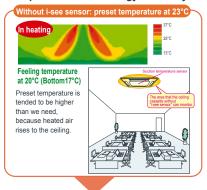


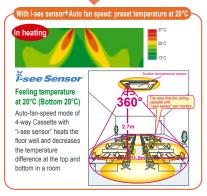


"i-see sensor" can be used with ceiling cassette type 4-way airflow unit. (Option PAC-SA1ME-E, PLFY-VBM-E ONLY)

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

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





				PLFY-P20VBM-E	PLFY-P25VBM-E	PLFY-P32VBM-E	PLFY-P40VBM-E	PLFY-P50VBM-E	PLFY-P63VBM-E	PLFY-P80VBM-E		
Power	source					1-phase 220-	240V 50Hz / 1-phas	e 220V 60Hz				
Caslina		. *1	kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0		
Coomi	capacity	*1	BTU/h	7,500	9,600	12,300	15,400	19,100	24,200	30,700		
Hooting	g capacity	, *1	kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0		
пеаші	y capacity	*1	BTU/h	8,500	10,900	13,600	17,100	21,500	27,300	34,100		
Power		Cooling	kW	0.03	0.03	0.03	0.04	0.04	0.05	0.07		
consun	consumption Heating kW			0.02	0.02	0.02	0.03	0.03	0.04	0.06		
Curren	t	Cooling	Α	0.26	0.26	0.27	0.29	0.29	0.36	0.51		
		Heating	Α	0.19	0.19 0.19 0.20 0.22 0.22 0.29							
	External finish Unit Galvanized steel sheet											
(Munsell No.) Panel MUNSELL (6.4Y 8.9/0.4)												
Dimens H x W		Unit	mm(in.)				840 (10-3/16 x 33-1					
H X VV	עא	Panel	mm(in.)	35 x 950 x 950 (1-3/8 x 37-7/16 x 37-7/16)								
Net we	iaht	Unit	kg(lbs.)			22 (49)	2 (12)		23	(51)		
		Panel	kg(lbs.)				6 (13)					
Heat ex	kchanger	0 1"1		Cross fin (Aluminum fin and copper tube)								
	Type x	Quantity		Turbo fan x 1 11-12-13-14 12-13-14-16 14-15-16-18 16-								
_	Airflow	rate *2	m³/min		11-12-13-14				14-15-16-18	16-18-20-22		
Fan	(Lo-Mid1	-Mid2-Hi)	L/s		183-200-217-233		200-217		233-250-267-300	267-300-333-367		
	External sta	tio proceuro	cfm		388-424-459-494		424-459-494-565 494-530-565-636 565-636-706-777					
	Type	uc pressure	Pa	0								
Motor	Output		kW				DC motor 0.050					
Air filte			KVV				PP Honeycomb					
All litte		0					FFTIONEycomb	ø12.7 (ø1/2) / ø15.88 (ø5/8)				
Refrige	rant	Gas (Flare)	mm(in.)		ø12.7	(ø1/2)		(Compatible)	ø15.88	8(ø5/8)		
pipe dia	pipe diameter Liquid (Flare) mm(in.)				ø6.35 (ø1/4)			ø9.52	(ø3/8)			
Field drain pipe diameter mm(in.)							O.D. 32 (1-1/4)					
	ressure lev 1-Mid2-Hi)		dB(A)		27-28-29-31		27-28	-30-31	28-29-30-32	30-32-35-37		

				PLFY-P100VBM-E	PLFY-P125VBM-E	PLFY-P15VCM-E2	PLFY-P20VCM-E2	PLFY-P25VCM-E2	PLFY-P32VCM-E2	PLFY-P40VCM-E2
Power	source			1-phase 220-240V 50H	z / 1-phase 220V 60Hz		1-	phase 220-240V 50)Hz	
Caalin	~ ~~~~	. *1	kW	11.2	14.0	1.7	2.2	2.8	3.6	4.5
Cooling	g capacit	y *1	BTU/h	38,200	47,800	5,800	7,500	9,600	12,300	15,400
Hootin	g capacit	., *1	kW	12.5	16.0	1.9	2.5	3,2	4.0	5.0
пеаш	y capacii	y *1	BTU/h	42,700	54,600	6,500	8,500	10,900	13,600	17,100
Power		Cooling	kW	0.15	0.16	0.04	0.05	0.05	0.06	0.06
consumption		Heating	kW	0.14	0.15	0.04	0.05	0.05	0.06	0.06
Curren	ıt	Cooling	Α	1.00	1.07	0.19	0.23	0.23	0.28	0.28
Ourien		Heating	Α	0.94	1.00	0.19	0.23	0.23	0.28	0.28
Extern	al finish	Unit		Galvanized	steel sheet		Galvanized st	eel sheet with gray	heat insulation	
(Munse	ell No.)	Panel				MUNSELL (6.4Y 8.9/0.4)				
Dimen	sion	Unit	mm(in.)	298 x 840 x 840 (11-3	3/4 x 33-1/8 x 33-1/8)		208 x 570 x	570 (8-1/4 x 22-1/2	2 x 22-1/2)	
HxW	x D	Panel	mm(in.)	35 x 950 x 950 (1-3/8	x 37-7/16 x 37-7/16)		20 x 650 x	650 (13/16 x 25-5/8	x 25-5/8)	
Notwo	iaht	Unit	kg(lbs.)	27 ((60)	15.5 (35) 17 (38)				
ivet we	Net weight Panel kg(lbs.			6 (1	13)			3 (7)		
Heat e	xchangeı	r				Cross fin (A	Aluminum fin and co	pper tube)		
	Type x	Quantity		Turbo fan x 1						
	Airflow	rate *2	m³/min	21-24-27-29	22-25-28-30	8-8.5-9	8-9-10	8-9-10	8-9-11	8-9-11
Fan	(Lo-Mid-l	Hi)	L/s	350-400-450-483	367-417-467-500	133-142-150	133-150-167	133-150-167	133-150-183	133-150-183
	(Lo-Mid1	-Mid2-Hi)	cfm	742-848-953-1024	777-883-989-1059	283-300-353	283-318-353	283-318-353	283-318-388	283-318-388
	External sta	itic pressure	Pa			0				
Motor	Type			DC n	notor	1-phase induction motor				
WOLOI	Output		kW	0.1	20	0.008 0.011 0.015 0.02 0.02				
Air filte	er			PP Hone	eycomb	PP Honeycomb fabric (long life type)				
Refrige		Gas (Flare)	mm(in.)	ø15.88 (ø5/8) / (Comp		ø12.7 (ø1/2)				
pipe di	pipe diameter Liquid (Flare) mm(i			ø9.52	(ø3/8)	ø6.35 (ø1/4)				
Field d	Field drain pipe diameter mm(ir			O.D. 32	! (1-1/4)		O.D. 32 (1-1/4) (PVC pipe VP-25	connectable)	
Sound pressure level *2 *3			dB(A)	34-37-39-41	35-38-41-43	28-30-31	28-31-35	29-31-37	29-33-38	30-34-39

- *1 Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling: Indoor 27°C(81°F)DB/19°C(66°F)WB,Outdoor 35°C(95°F)DB Heating: Indoor 20°C(68°F)DB,Outdoor 7°C(45°F)DB/6°C(43°F)WB
- *2 Airflow rate/Sound pressure level are in (Lo-Mid-Hi) or (Lo-Mid1-Mid2-Hi).
- *3 It is measured in anechoic room at power source 230V.

INDOOR UNIT Ceiling cassette type 2-way airflow

PLFY-P VLMD-E

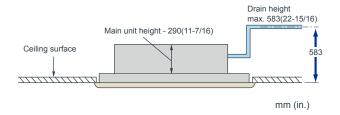


Slim body of 290mm(11-7/16in.) height



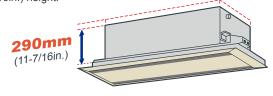
Equipped with drain pump mechanism as standard

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



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

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



Terminal block on outside of main unit makes wiring easier

Compact unit and low noise level attained!

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

												dB(A)					
		Capa	city	P20	P25	P32	P40	P50	P63	P80	P100	P125					
			High		33		36	37	39	39	42	46					
		Fan Speed	-	-	-	-	1 1/116	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		High	34			37	38	40	40	43	46	
Level	Fan Speed		Mid		31			35	38	37	41	42/44
		Low		28		30	32	33	34	37	40	

<230V>

Fresh air directly taken in

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

Long life filter equipped as standard

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

Easy installation

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

				PLFY-P20VLMD-E	PLFY-P25VLMD-E	PLFY-P32VLMD-E	PLFY-P40VLMD-E					
Power source												
Cooling	r canacity	, *1	kW	2.2	2.8	3.6	4.5					
Coomi	y capacity	*1	BTU/h	7,500	9,600	12,300	15,400					
Heating	r canacit	, *1	kW	2.5	3.2	4.0	5.0					
Ticating	y capacit	*1	BTU/h	8,500	10,900	13,600	17,100					
		Cooling	kW	0.072 / 0.075	0.072 / 0.075	0.072 / 0.075	0.081 / 0.085					
consun	nption	Heating	kW	0.065 / 0.069	0.065 / 0.069	0.065 / 0.069	0.074 / 0.079					
Curren	t		Α	0.36 / 0.37	0.36 / 0.37	0.36 / 0.37	0.40 / 0.42					
	He		Α	0.30 / 0.32	0.30 / 0.32							
		Unit			Galvanized	I steel plate						
, , , , , , , , , , , , , , , , , , , ,												
		Unit	mm (in.)			,						
HxWxD Panel mm (in.												
Net we	Net weight		kg(lbs.)	23 ((53)							
			kg(lbs.)	· /								
Heat ex												
	Type x	Quantity										
	Airflow	rate *2	m³/min									
Fan			L/s		108-133-158		117-142-175					
	`		cfm				247-300-371					
		atic pressure	Pa			-						
Motor	Туре				<u>.</u>							
	Output		kW		0.015 (a	,						
Air filte						bric (long life type)						
Refrige		Gas(Flare)	mm(in.)		ø12.7	· /						
pipe di		Liquid(Flare)	mm(in.)			(ø1/4)						
	ain pipe o		mm(in.)			O.D.32 (1-1/4)						
	essure level		dB(A)	27-30-33 29-33-36								
(Lo-Mid-F	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			12.110072		50Hz / 1-phase 220-230V (1211112012111112		
		*1	kW	5.6	7.1	9.0	11.2	14.0		
Cooling	capacit	y *1	BTU/h	19,100	24,200	30,700	38,200	47,800		
		*1	kW	6.3	8.0	10.0	12.5	16.0		
Heating	g 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		
consun	nption	Heating	kW	0.075 / 0.080	0.094 / 0.099	0.140 / 0.150	0.150 / 0.180	0.27 / 0.27		
0		Cooling	Α	0.41 / 0.43	0.49 / 0.51	0.72 / 0.74	0.75 / 0.88	1.35 / 1.35		
Curren	ι	Heating	Α	0.35 / 0.38	0.43 / 0.46	0.66 / 0.69	0.69 / 0.83	1.33 / 1.33		
Externa	al finish	Unit				Galvanized steel plate				
(Munse	ell No.)	Panel				Pure white (6.4Y 8.9 / 0.4)				
Dimension Unit			mm (in.)	290 x 946 x 634 (11	-7/16 x 37-1/4 x 25)	290 x 1446 x 634 (11-	7/16 x 56-15/16 x 25)	290 x 1708 x 606 (11-7/16 x 67-1/4 x 23-7/8)		
HxW	x D	Panel	mm (in.)	20 x 1250 x 710 (1	3/16 x 49-1/4 x 28)	20 x 1750 x 710 (13/16 x 68-15/16 x 28		20 x 2010 x 710 (13/16 x 79-3/16 x 28)		
Net we	inht	Unit	kg(lbs.) 27 (60)		28 (62)	44 (98)	47 (104)	56 (124)		
inet we	igni	Panel	kg(lbs.)	7.5	(17)	12.5	(28)	13.0 (29)		
Heat ex	kchanger					Cross fin				
	Туре х	Quantity		Turbo	fan x 1	Turbo	fan x 2	Sirocco fan x 4		
	Airflow	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	lid2-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	Туре					1-phase induction motor				
Wiotor	Output		kW	0.020 (a	at 240V)	0.020 (at 240V)	0.030 (at 240V)	0.078 x 2 (at 240V)		
Air filte	r				DD.	anayaamh fahria (lang lifa t		Synthetic fiber unwoven		
All litte					PP1	noneycomb fabric (long life t	ype)	cloth filter (long life)		
Refrige	rant	Gas (Flare)	mm(in.)	ø12.7 (ø1/2)		ø15.88	s (ø5/8)			
pipe dia	ameter	Liquid (Flare)	mm(in.)	ø6.35 (ø1/4)		ø9.52	(ø3/8)			
Field dr	ain pipe	e diameter mm(in.)			O.D.32 (1-1/4)					
Sound pre	essure level	220V,240V	dB(A)	31-34-37	32-37-39	33-36-39	36-39-42	40-42-44-46		
(Lo-Mid-H	li) *2 *3	230V	dB(A)	32-35-38	33-38-40	34-37-40	37-41-43	(Lo-Mid2-Mid1-Hi)		

- *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
- $^{\star}2 \ \ \text{Airflow rate/Sound pressure level are in \ (low-middle-high) or \ (low-middle2-middle1-high)}.$
- *3 It is measured in anechoic room.



INDOOR UNIT Ceiling cassette type 1-way airflow

PMFY-P VBM-E



Compact and lightweight body perfect for limited ceiling space applications.



Compact size for smooth installation and maintenance

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

Quiet operation

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

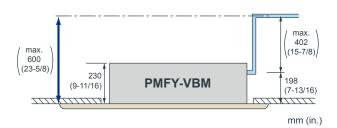
Sound pressure level table

Sound pre	essure	ievei t	abie			
	Сара	city	P20	P25	P32	P40
Sound		High	35	3	7	39
pressure	Fan	Mid 1	33	3	6	37
level	Speed	Mid 2	30	3	4	35
		Low	27	3	2	33

<220V,240V>

Drain pump

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



				PMFY-P20VBM-E	PMFY-P25VBM-E	PMFY-P32VBM-E	PMFY-P40VBM-E							
Power	source			<u> </u>	1-phase 220-240V 50H	lz / 1-phase 220V 60Hz	•							
Caalina	it	. *1	kW	2.2	2.8	3.6	4.5							
Cooling	g capacity	y *1	BTU/h	7,500	9,600	12,300	15,400							
Llaatin	~it	. *1	kW	2.5	3.2	4.0	5.0							
neaung	g capacit	y *1	BTU/h	8,500	10,900	13,600	17,100							
Power		Cooling	kW	0.042	0.0)44	0.054							
consun	nption	Heating	kW	0.042	0.0)44	0.054							
Curren		Cooling	Α	0.20	0.	21	0.26							
Heating		Α	0.20											
External finish (Munsell No.)			No.)		White (0.98Y 8.99/0.63)									
Dimension Unit mm(in.)			mm(in.)		230 x 812 x 395 (9-1/16 x 32 x 15-9/16)									
H x W	x D	Panel	mm(in.)	30 x 1000 x 470 (1-3/16 x 39-3/8 x 18-9/16)										
Net weight		Unit	kg(lbs.)		14 (31)									
vet we	igni	Panel	kg(lbs.)	3 (7)										
leat e	xchanger	•		Cross fin (Aluminum plate fin and copper tube)										
	Type			Line flow fan x 1										
	Airflow	rate *2	m³/min	6.5-7.2-8.0-8.7	7.3-8.0	-8.6-9.3	7.7-8.7-9.7-10.7							
an		-Mid1-Hi)	L/s	108-120-133-145	122-133	-143-155	128-145-162-178							
	(LO-WIGZ	-Wild 1-Fill)	cfm	230-254-283-307	258-283	-304-328	272-307-343-378							
	External st	aticpressure	Pa		(0								
Motor	Туре				1-phase ind	uction motor								
	Output		kW		0.0)28								
Air filte	•				PP Honeyo	comb fabric								
Refrige		Gas(Flare)	mm(in.)		ø12.7	(ø1/2)								
		Liquid(Flare)	mm(in.)		ø6.35	(ø1/4)								
	rain pipe o		mm(in.)	O.D. 26 (1)										
	pressure d2-Mid1-H		dB(A)	27-30-33-35	32-34-	36-37	33-35-37-39							

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

INDOOR UNIT Ceiling concealed type

PEFY-P VMR-E-L/R



Width **640**mm _{25-6/32in.}

Ultra Low Noise Piping connection
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 $\slash\hspace{-0.6em}$ stop by taking a key card in and out.

Ultra low noise

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

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

Enables to install for symmetric design room

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

Easy Maintenance

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

Energy 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.

				PEFY-P20VMR-E-L	PEFY-P25VMR-E-L	PEFY-P32VMR-E-L
Power	source			1-phas	se 220-230-240V 50Hz / 1-phase 220-230V	60Hz
0 !!		*1	kW	2.2	2.8	3.6
Cooling	g capacit	^y *1	BTU/h	7,500	9,600	12,300
114:-		*1	kW	2.5	3.2	4.0
Heating	g capacit	y *1	BTU/h	8,500	10,900	13,600
Power		Cooling	kW	0.06 / 0.06	0.06 / 0.06	0.07 / 0.08
consur	nption	Heating	kW	0.06 / 0.06	0.06 / 0.06	0.07 / 0.08
0		Cooling	Α	0.29 / 0.29	0.29 / 0.29	0.34 / 0.38
Curren	τ	Heating	Α	0.29 / 0.29	0.29 / 0.29	0.34 / 0.38
Externa	al finish				Galvanized	
Dimen	sion R	ear inlet	mm (in.)		292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)	
H x W	x D Bo	ottom inlet	mm (in.)		300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2)	
Net we	ight		kg(lbs.)		18 (40)	
Heat e	xchangei	r			Cross fin (Aluminum fin and copper tube)	
	Type x Quantity				Sirocco fan x 1	
	Airflow	roto	m³/min	4.8-5.8	-7.9	4.8-5.8-9.3
Fan	(Lo-Mid		L/s	80-97-	132	80-97-155
ran	(LO-IVIIC	ı-mı)	cfm	170-205	-279	170-205-328
	Externa		Pa		5	
Motor	Туре				1-phase induction motor	
MOIOI	Output		kW	0.01	8	0.023
Air filte	r				PP Honeycomb fabric (washable)	
Refrige	erant	Gas	mm(in.)		ø12.7 (ø1/2) Brazed	
pipe di	ameter	Liquid	mm(in.)		ø6.35 (ø1/4) Brazed	
Field di	ain pipe	diameter	mm(in.)		O.D. 26 (1)	
Sound	pressure	220V		20-25-	-30	20-25-33
	o-Mid-Hi)	230V	dB(A)	21-26-	-32	21-26-35
.5751 (L	*3	240V		22-27-	-30	22-27-33
PEFY-P20VMR-E-R PEFY-P25VMR-E-R PEFY-P32VMI						PEFY-P32VMR-E-R
Power	source			-	se 220-230-240V 50Hz / 1-phase 220-230V 6	

				PEFY-P20VMR-E-R	PEFY-P25VMR-E-R	PEFY-P32VMR-E-R
Power	source			1-pha	ase 220-230-240V 50Hz / 1-phase 220-230V	60Hz
Cooling	capacity	, *1	kW	2.2	2.8	3.6
Coomi	Capacit		BTU/h	7,500	9,600	12,300
Heating	capacit	, *1	kW	2.5	3.2	4.0
Tieatiii	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
consun	nption	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	Α	0.29 / 0.29	0.29 / 0.29	0.34 / 0.38
Externa	al finish				Galvanized	
Dimens	sion Re	ear inlet	mm (in.)		292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)	
H x W x	k D Bo	ttom inlet	mm (in.)		300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2)	
Net we	ight		kg(lbs.)		18 (40)	
Heat ex	changer				Cross fin (Aluminum fin and copper tube)	
	Type x	Quantity			Sirocco fan x 1	
	Airflow	rate	m³/min	4.8-5.	.8-7.9	4.8-5.8-9.3
Fan	(Lo-Mid		L/s	80-97	7-132	80-97-155
I all	(LO-IVIIG	-111)	cfm	170-20	05-279	170-205-328
	Externa pressur		Pa		5	
Motor	Type				1-phase induction motor	
IVIOLOI	Output		kW	0.0	018	0.023
Air filte		•			PP Honeycomb fabric (washable)	
Refrige	rant	Gas	mm(in.)		ø12.7 (ø1/2) Brazed	
pipe dia	ameter	Liquid	mm(in.)		ø6.35 (ø1/4) Brazed	
	ain pipe o		mm(in.)		O.D. 26(1)	·
Sound	oressure	220V		20-2	5-30	20-25-33
level (Lo	o-Mid-Hi)	230V	dB(A)	21-2	6-32	21-26-35
		240V		22-2	7-30	22-27-33

Notes:

 $^{\star}2$ The external static pressure is set to 5Pa (at 220V, 230V, 240V).

Indoor Unit

^{*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

^{*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





Height **200mm** 7-28/32in.

Low Noise

Width **790mm** 31-1/8in.

Width 990mm

Width **1,190**mm

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.

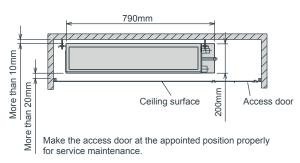
*For places where low noise operation is especially required (i.e. Hotels), VMS1L (without drain pump) is recommended.

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		High	28	29	30	32	33	35	36
Level	Fan Speed	Mid	24	25	26	27	30	32	33
	ороса	Low	22	23	24	24	28	30	30

				DEEY D45//MC4// \ E	DEEY DOOMMONULE	DEEY DOEVMOA(L) E	DEEY D22\/MC4/() E	DEEX D40/MC4/L) E	DEEX DEOVINCALLY	PEFY-P63VMS1(L)-E			
Power	SOUTO	e		PEFT-PIOVINGI(L)-E	PEFT-PZUVMST(L)-E		0V 50Hz / 1-phase		PEF 1-P30VW31(L)-E	: PEF 1-P03VIVIS I(L)-E			
1 01101	Jouro	*1	kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1			
Coolin	g capa	city *1	BTU/h	5.800	7.500	9.600	12.300	15,400	19,100	24.200			
	Consumption He Current *3 Co He External finish	*1	kW	1.9	2.5	3.2	4.0	5.0	6.3	8.0			
Heating	g capa	city *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		0.09 [0.07]	0.09 [0.07]			
consur	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]			
_		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	nt ^3	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]			
Extern	al finis	h			Galvanized								
Dimen	Dimension				200 x 79	90 x 700		200 x 9	90 x 700	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	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)]								
Heat e	xchang	jer			Cross fin (Aluminium fin and copper tube)								
	Type x Quantity				Sirocco	fan x 2	Sirocco	fan x 3	Sirocco fan x 4				
	Airflov	rata	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-Hi)	cfm	176-212-247	194-229-282	194-247-317	212-282-353	282-335-388	335-388-459	424-494-583			
	Externa	I static press	Pa				5-15-35-50						
Motor	type						DC motor						
	outpu	t	kW				0.096						
Air filte	r					PP Ho	neycomb fabric (was	shable)					
Refrigerant	Gas		mm(in.)			Q	12.7 (ø1/2) Braze	d		ø15.88 (ø5/8) Brazed			
pipe diameter	Liquid		mm(in.)			Q	6.35 (ø1/4) Braze	d		ø9.52 (ø3/8) Brazed			
Field dr	ain pipe	diameter	mm(in.)				O.D. 32 (1-1/4)						
Sound (Lo-Mic (mesure	l-Hi)	e level	dB <a>	22-24-28	23-25-29	24-26-30	24-27-32	28-30-33	30-32-35	30-33-36			

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

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

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

Pipe length: 7.5m (24-9/16ft) Height difference: 0m (0ft)

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

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

INDOOR UNIT Ceiling Concealed Type

PEFY-P VMA(L)-E



Slim Body

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	20	20 25 32 40 50 63 71 80 100 125									140	
Height						250						
Width	Width mm		700 900 1,100 1,400								100	1,600
Depth mm							732					

External static pressure

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

External static pressure setting

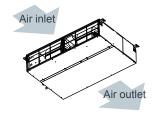
External otatio pr	External otatio procedire cotting											
Series	20	25	32	40	50	63	71	80	100	125	140	
PEFY-P VMA(L) 35/50/70/100/150Pa												

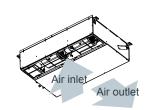


Air Inlet

(1) Rear inlet







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.

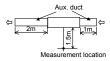


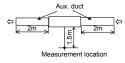
				PEFY-P20VMA(L)-E	PEFY-P25VMA(L)-E	PEFY-P32VMA(L)-E	PEFY-P40VMA(L)-E	PEFY-P50VMA(L)-E		
Power	cource	0		PEFT-PZUVIVIA(L)-E		hase 220-230-240V 50 / 60	- ()	PEFT-F30VIVIA(L)-E		
Cooling			kW	2.2	2.8	3.6	4.5	5.6		
(Nomin	•	*1	BTU/h	7.500	9.600	12.300	15.400	19.100		
Heating		-	kW	2.5	3.2	4.0	5.0	6.3		
(Nomin	•	*2	BTU/h	8.500	10.900	13.600	17.100	21.500		
Power			kW	-,	-,	-,	,	,		
			kW	0.06 [0.04]	0.06 [0.04]	0.07 [0.05]	0.09 [0.07]	0.11 [0.09]		
consum		,		0.04	0.04	0.05 0.55 [0.44]	0.07	0.09		
Current		Cooling *3	A				0.64 [0.53]	0.74 [0.63]		
		Heating *3	Α	0.42	0.42	0.44	0.53	0.63		
Externa	al finis	sh				Galvanized steel plate				
Dimension H x W x D ———		mm	250 x 700 x 732	250 x 700 x 732	250 x 700 x 732	250 x 900 x 732	250 x 900 x 732			
in		in.	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 35-7/16 x 28-7/8	9-7/8 x 35-7/16 x 28-7/8			
Net weight kg(lbs)			kg(lbs)	23 (51) [22 (49)] 23 (51) [22 (49)] 23 (51) [22 (49)] 26 (58) [25 (56)] 26 (58) [25 (56)]						
Heat ex	xchan	ger		Cross fin (Aluminum fin and copper tube)						
	Type x Quantity					Sirocco fan x 1				
	Δirfle	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		/-Mid-High)	L/s	100 - 125 - 142	100 - 125 - 142	125 - 150 - 175	167 - 200 - 233	200 - 242 - 283		
ı alı	(LOW	/-iviiu-i iigii)	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	•			
MOIOI	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		
Refrigera	ant	(R22,R407C)	mm(m.)	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)	(: \	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	rain pir	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	easured in	anechoic room)				· · · · · · · · · · · · · · · · · · ·		
(Low-N	∕lid-Hig	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		

				PEFY-P63VMA(L)-E	PEFY-P71VMA(L)-E	PEFY-P80VMA(L)-E	PEFY-P100VMA(L)-E	PEFY-P125VMA(L)-E	PEFY-P140VMA(L)-E
Power	source	е				1-phase 220-230	0-240V 50 / 60Hz		
Cooling	ј сара	city *1	kW	7.1	8.0	9.0	11.2	14.0	16.0
(Nomin	al)	*1	BTU/h	24,200	27,300	30,700	38,200	47,800	54,600
Heating	д сара	city *2	kW	8.0	9.0	10.0	12.5	16.0	18.0
(Nomin	ıal)	*2	BTU/h	27,300	30,700	34,100	42,700	54,600	61,400
Power		Cooling *3	kW	0.12 [0.10]	0.14 [0.12]	0.14 [0.12]	0.24 [0.22]	0.34 [0.32]	0.36 [0.34]
consum	ption	Heating *3	kW	0.10	0.12	0.12	0.22	0.32	0.34
Curren	. [Cooling *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]
Curren	۱ [Heating *3 A		0.90	1.04	1.04	1.36	1.94	2.10
Externa	al finis	h				Galvanized	steel plate		
Dimons	sion L	IxWxD	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
Dilliens	SIUII F	1 X W X D	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 we	Net weight kg(lbs			32 (71) [31(69)]	32 (71) [31 (69)]	32 (71) [31 (69)]	42 (93) [41 (91)]	42 (93) [41 (91)]	46 (102) [45 (10)]
Heat ex	xchan	ger				Cross fin (Aluminum	fin and copper tube)		
	Type x Quantity				Sirocco	fan x 2			
	Airflo	w rate	m³/min	13.5 - 16.0 - 19.0	14.5 - 18.0 - 21.0	14.5 - 18.0 - 21.0	23.0 - 28.0 - 33.0	28.0 - 34.0 - 40.0	29.5 - 35.5 - 42.0
Fan	1	-Mid-High)	L/s	225 - 267 - 317	242 - 300 - 350	242 - 300 - 350	383 - 467 - 550	467 - 567 - 667	492 - 592 - 700
I all	(LOW	-wild-rilgiri)	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
	Exter	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>	<35> - 50 - <70> - <100> - <150>
Motor	Туре	;				DC r	notor		
IVIOLOI	Outp	ut	kW	0.121	0.121	0.121	0.244	0.244	0.244
Air filte	r					PP honeyc	omb fabric.		
		Liquid (R410A)	mm(in.)	9.52 (3/8) Brazed					
Refriger	ant	(R22,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 dia	meter	Gas (R410A)	mm(in.)	15.88 (5/8) Brazed					
		(R22,R407C)	11111(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 dr	ain pip	e diameter	mm(in.)	O.D.32 (1-1/4)					
Sound	pressi	ure level (m	easured in	anechoic room)					
(Low-N	1id-Hig	jh) *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.)
 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.)
 The values are measured at the rated external static pressure.
 The rated external static pressure is shown without < >.The factory setting is the rated value.

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





INDOOR UNIT Ceiling concealed type

PEFY-P VMH(S)-E

High Static Pressure



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



High static pressure of 200 Pa or higher

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

PEFY-P	VMH-E	P40	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			
(. 4)	400/415V									130/260			

PEFY-P VMHS-E	P200	P250
External static pressure (Pa)	<50> - <100> - 15	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

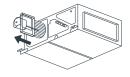
Sound pressure level table (Standard static pressure 220V)

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

One-side maintenance

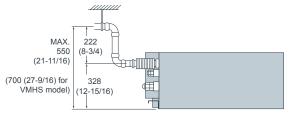
All maintenance to the unit, including fan inspection and fan motor removal, can be conducted from the inspection opening on one side.

(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.



mm (in.)

				PEFY-P40VMH-E	PEFY-P50VMH-E	PEFY-P63VMH-E	PEFY-P71VMH-E		PEFY-P100VMH-E	PEFY-P125VMH-E	PEFY-P140VMH-E
Power	source					1-phase	220-240V 50Hz /	1-phase 220-240			
Cooling	a conocit	*1	kW	4.5	5.6	7.1	8.0	9.0	11.2	14.0	16.0
Coomi	g capacit	^y *1	BTU/h	15,400	19,100	24,200	27,300	30,700	38,200	47,800	54,600
114:-		*1	kW	5.0	6.3	8.0	9.0	10.0	12.5	16.0	18.0
Heating	g capacit	y *1	BTU/h	17,100	21,500	27,300	30,700	34,100	42,700	54,600	61,400
Power		Cooling	kW	0.19	0.23	0.24 / 0.30	0.26 / 0.33	0.32 / 0.40	0.48	0.58	0.48 / 0.59
consur	nption	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
0		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	τ	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	•		
D:		D	mm		380 x 750 x 900		380 x 1,0	000 x 900	;	380 x 1,200 x 900)
Dimension H x W x D in.			in.	15	x 29-9/16 x 35-7/	/16	15 x 39-3/8	8 x 35-7/16	15	x 47-1/4 x 35-7/	16
Net we	ight		kg(lbs.)	bs.) 44 (98) 45 (100) 50 (111) 70 (155)							
Heat e	xchanger	r				Cross	fin (Aluminum pla	ate fin and coppe	r tube)		
	Type x Quanti					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
	(Lo-Hi)	rate	L/s	167-233		225-317	258-367	300-417	442-633		467-667
Fan	(LO-HI)		cfm	353-494		477-671	477-671 547-777 636-883		936-	1342	989-1413
	External static	220V	Pa				50 · 10	0 · 200			
	pressure *2	230,240V	Pa				100 · 1	50 · 200			
Mater	Туре						1-phase ind	uction motor			
Motor	Output	*3	kW	0.	08	0.12	0.14	0.18		0.26	
Air filte	r (option))				Synth	ethic fiber unwov	en cloth filter (lon	ig life)		
Refrige	erant	Gas (Flare)	mm(in.)	ø12.7	(ø1/2)			ø15.88	3 (ø5/8)		
pipe di	ameter	Liquid (Flare)	mm(in.)	ø6.35	(ø1/4)			ø9.52	(ø3/8)		
Field di	ain pipe	diameter	mm(in.)				O.D. 32	2 (1-1/4)			
Sound	pressure	220V	dB(A)	27-	-34	32-38	32-39	35-41	34-42		
	o-Hi) *6		dB(A)	31-	-37	36-41	35-41	38-43		38-44	

				PEFY-P200VMH-E	PEFY-P250VMH-E	PEFY-P200VMHS-E	PEFY-P250VMHS-E		
Power	source			3-phase 380-415V 50Hz	z / 3N ~ 380-415V 60Hz	1-phase 220-240V 50Hz	/ 1-phase 220-240V 60Hz		
0		*1	kW	22.4	28.0	22.4	28.0		
Cooling	g capacit	y *1	BTU/h	76,400	95,500	76,400	95,500		
Llaatin	~it	*1	kW	25.0	31.5	25.0	31.5		
пеаші	g capacit	^y *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		
consur	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	Heating	380-415V	Α	1.62 / 1.86	2.00 / 2.30	_	_		
	пеашу	220-230-240V	Α			3.47-3.32-3.18 *7	4.72-4.43-4.14 *7		
Externa	al finish			Galva	nized	Galvanized	d steel plate		
Dimon	aian II.v	mm mm		470 x 1,25		470 x 1,2	50 x 1,120		
Dimen	Dimension H x W x D		in.	18-9/16 x 49		18-9/16 x 49	9-1/4 x 44-1/8		
Net we	Net weight kg(lbs.		kg(lbs.)	100 (221)	97 (214)	100 (221)		
Heat e	Heat exchanger			Cross fin (Aluminum pla	ate fin and copper tube)	Cross fin (Aluminum plate fin and copper tube)			
	Туре х	Type x Quantity		Sirocco	fan x 2	Sirocco	fan x 2		
	1,7,2 2		m³/min	58.0	72.0	_	_		
	Airflow ra	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		
			cfm	-	-	1766-2154-2542	2048-2507-2966		
		380V	Pa		220 *4	_			
	External static	400,415V	Pa	130 -	260 *4	_			
	pressure		Pa	_	-	<50>-<100>-150-<200>-<250> *8			
			mmH₂O	_	-	<5.1>-<10.2>-15.3-<20.4>-<25.5> *8			
Motor	Type			3-phase indu		DC i	motor		
IVIOLOI	Output		kW	0.76 *5	1.08 *5	0.87	0.87		
Air filte	r(option)			Synthethic fiber unwove	en cloth filter (long life)	Synthethic fiber unwoven cloth filter (long	life filter) and filter box are recommended.		
Refrige	erant	Gas (Brazed)	mm(in.)	ø19.05 (ø3/4)	ø22.2 (ø7/8)	ø19.05 (ø3/4)	ø22.2 (ø7/8)		
pipe di	ameter	Liquid (Brazed)	mm(in.)	ø9.52	(ø3/8)	ø9.52	(ø3/8)		
Field di	rain pipe	diameter	mm(in.)	O.D. 32	(1-1/4)	O.D. 32	2 (1-1/4)		
Caund	pressure	380V	dB(A)	42 (110Pa) / 45 (220Pa) *6	50 (110Pa) / 52 (220Pa) *6	_	_		
	pressure	400,415V	dB(A)	44 (130Pa) / 47 (260Pa) *6	52 (130Pa) / 54 (260Pa) *6	_	_		
level		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, Outdoor: 35°C(95°F)DB Heating Indoor: 20°C(68°F)DB, Outdoor: 7°C(45°F)DB/6°C(43°F)WB
- *2 The external static pressure is set to 100Pa (at 220V) /150Pa (at 230, 240V) at factory shipment.
- *3 The value are that at 240V.
- *4 The external static pressure is set to 220Pa (at 380V) /260Pa (at 400, 415V) at factory shipment.
- *5 The value are that at 415V.

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

INDOOR UNIT Fresh Air Intake Type

PEFY-P VMH-E-F

Fresh Air Intake

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



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

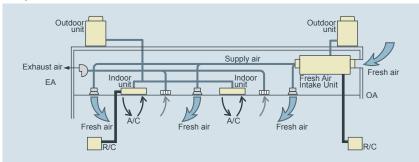
The Fresh Air intake indoor unit can take fresh outdoor air into any building in any place at any time.

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

* Limits of capacity connectable to outdoor unit

Max. 110% of outdoor unit capacity, excepting heating at outdoor temperature of less than -5°C(23°F) (100%).

Example



< Note>

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

				PEFY-P80VMH-E-F	PEFY-P140VMH-E-F			
Power	source			1-phase 220-240V 50Hz /				
Cooling	capacit	*1	kW	9.0	16.0			
` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	, ,	*1 *1	BTU/h	30,700	54,600			
Heating	capacit	ty *1	kW BTU/h	8.5 29,000	15.1 51,500			
Power		Cooling	kW	0.16 / 0.21	0.29 / 0.33			
consu	mntion	Heating	kW	0.16 / 0.21	0.29 / 0.33			
		Cooling	A	0.67 / 0.91	1.24 / 1.48			
Curren	t	Heating	A	0.67 / 0.91	1.24 / 1.48			
Externa	al finish	1		Galva				
Dimens			<i>(</i> ,)	380 x 1000 x 900	380 x 1200 x 900			
H x W	x 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	changer				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	Eutomol	2001/	cfm	318 35 - 85 - 170	636			
	External static	208V	Pa Pa	40 - 115 - 190	35 - 85 - 170 50 - 115 - 190			
	pressure		Pa	50 - 130 - 210	60 - 130 - 220			
	(Lo-Mid-Hi)		Pa	80 - 170 - 220	100 - 170 - 240			
	Type	1	, u	1-phase indu				
Motor	Output	1	kW	0.09 (at 220V)	0.14 (at 220V)			
Air filte	r (option)			Synthetic fiber unwove	, ,			
Gas mm(in								
Refrige	rant	(Flare)	mm(in.)	ø15.88	(Ø5/8)			
pipe di	pipe diameter Liquid mm/i		mm/in \	~0.50	(~2/0)			
	(Flare) mm(in.			ø9.52	(03/6)			
	ain pipe		mm(in.)	O.D.32				
	ssure level		dB(A)	27 - 38 - 43	28 - 38 - 43			
(Lo-Mid-H	i) *2	230, 240V	dB(A)	33 - 43 - 45	34 - 43 - 45			
				PEFY-P200VMH-E-F	PEFY-P250 VMH-E-F			
Power	source			PEFY-P200VMH-E-F 3-phase 380-415V 50H:				
		rity	kW	3-phase 380-415V 50H: 22.4	z / 3N~ 380-415V 60Hz 28.0			
	source g capac	ity	BTU/h	3-phase 380-415V 50H: 22.4 76,400	z / 3N~ 380-415V 60Hz 28.0 95,500			
Coolin	g capac	-	BTU/h kW	3-phase 380-415V 50H: 22.4 76,400 21.2	z / 3N~ 380-415V 60Hz 28.0 95,500 26.5			
Coolin	g capac g capac	city	BTU/h kW BTU/h	3-phase 380-415V 50H: 22.4 76,400 21.2 72,300	z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400			
Coolin Heatin Power	g capac g capac	city	BTU/h kW BTU/h kW	3-phase 380-415V 50H: 22.4 76,400 21.2 72,300 0.34 / 0.42	z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50			
Coolin Heatin Power	g capac g capac	Cooling Heating	BTU/h kW BTU/h kW kW	3-phase 380-415V 50H: 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42	z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.39 / 0.50			
Coolin Heatin Power	g capac g capac mption	Cooling Heating Cooling	BTU/h kW BTU/h kW kW	3-phase 380-415V 50H: 22.4 76,400 21.2 72,300 0.34 / 0.42 0.58 / 0.74	z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86			
Coolin Heatin Power consu Currer	g capac g capac mption	Cooling Heating Cooling Heating	BTU/h kW BTU/h kW kW	3-phase 380-415V 50H. 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74	z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86			
Coolin Heatin Power consu Currer Extern	g capac g capac mption at al finish	Cooling Heating Cooling Heating	BTU/h kW BTU/h kW kW A	3-phase 380-415V 50H: 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 Galva	z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86			
Coolin Heatin Power consu Currer	g capac g capac mption at al finish sion	Cooling Heating Cooling Heating	BTU/h kW BTU/h kW kW	3-phase 380-415V 50H. 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 Galva 470 x 128	z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86			
Coolin Heatin Power consu Currer Extern Dimen	g capac g capac mption at al finish sion x D	Cooling Heating Cooling Heating	BTU/h kW BTU/h kW kW A	3-phase 380-415V 50H: 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galva 470 x 12t (18-9/16 x 49	z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86			
Coolin Heatin Power consu Currer Extern Dimen H x W : Net we	g capac g capac mption at al finish sion x D	Cooling Heating Cooling Heating	BTU/h kW BTU/h kW kW A A mm(in.)	3-phase 380-415V 50H: 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galva 470 x 12t (18-9/16 x 49	z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 nized 60 x 1120 1.14 x 44-1/8) (221)			
Coolin Heatin Power consu Currer Extern Dimen H x W : Net we	g capac g capac mption ut al finish sion x D eight xchange	Cooling Heating Cooling Heating	BTU/h kW BTU/h kW kW A A kg(lbs.)	3-phase 380-415V 50H: 22.4 76,400 21.2 72,300 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galva 470 x 125 (18-9/16 x 49 Cross fin (Aluminum pla	z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 inized 50 x 1120 1/4 x 44-1/8) (221) ate fin and copper tube) fan x 2			
Coolin Heatin Power consu Currer Extern Dimen H x W : Net we	g capac g capac mption ut al finish sion x D eight xchange	Cooling Heating Cooling Heating Heating	BTU/h kW BTU/h kW kW A A Mmm(in.)	3-phase 380-415V 50H: 22.4 76,400 21.2 72,300 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galva 470 x 125 (18-9/16 x 49 100 Cross fin (Aluminum pla Sirocco	z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 inized 60 x 1120 -1/4 x 44-1/8) 221) ate fin and copper tube) fan x 2 35			
Coolin Heatin Power consu Currer Extern Dimen H x W : Net we Heat e	g capac g capac mption ut al finish sion x D eight xchange	Cooling Heating Cooling Heating Heating Couling BTU/h kW BTU/h kW kW A A Mmm(in.) kg(lbs.)	3-phase 380-415V 50H. 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galve 470 x 125 (18-9/16 x 49 100 Cross fin (Aluminum ple Sirocco	z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.122d 60 x 1120 1.1/4 x 44-1/8) (221) ate fin and copper tube) fan x 2 35 583				
Coolin Heatin Power consu Currer Extern Dimen H x W : Net we	g capac g capac mption at al finish sion x D eight xchange Type x Airflow	Cooling Heating Cooling Heating Heating Couling Heating	BTU/h kW BTU/h kW A A mm(in.) kg(lbs.)	3-phase 380-415V 50H. 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 Galva 470 x 12t (18-916 x 49 100 Cross fin (Aluminum pla Sirocco 28 467 989	z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.00 x 1120 1.1/4 x 44-1/8) 221) ate fin and copper tube) fan x 2 35 583			
Coolin Heatin Power consu Currer Extern Dimen H x W : Net we Heat e	g capac g capac mption it al finish sion x D eight xchange Type x Airflow External	Cooling Heating Cooling Heating Cooling Heating rate 380V	BTU/h kW BTU/h kW A A mm(in.) kg(lbs.)	3-phase 380-415V 50H: 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 Galve 470 x 12t (18-9/16 x 49 100) Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200	z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 nized 30 x 1120 -1/4 x 44-1/8) (221) ate fin and copper tube) fan x 2 35 583 1236 110 / 190			
Coolin Heatin Power consu Currer Extern Dimen H x W : Net we Heat e	g capac g capac mption It al finish sion x D sight xchange Type x Airflow External static	Cooling Heating Cooling Heating Heating er Quautity rate 380V 400V	BTU/h kW BTU/h kW BTU/h kW kW A A A mm(in.) kg(lbs.) m³/min L/s cfm Pa Pa	3-phase 380-415V 50H. 22.4 76,400 21.2 72,300 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galve 470 x 125 (18-9/16 x 49 100 Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200 150 / 210	z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 inized 50 x 1120 1/4 x 44-1/8) (221) ate fin and copper tube) fan x 2 35 583 1236 110 / 190 120 / 200			
Coolin Heatin Power consu Currer Extern Dimen H x W : Net we Heat e	g capac g capac g capac mption at al finish sion x D eight xchange Type x Airflow External static pressure	Cooling Heating Cooling Heating Heating er Quautity rate 380V 400V	BTU/h kW BTU/h kW A A mm(in.) kg(lbs.)	3-phase 380-415V 50H. 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galva 470 x 125 (18-9/16 x 49) Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200 150 / 210 160 / 220	z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.60 x 1120 1/4 x 44-1/8) (221) ate fin and copper tube) fan x 2 35 583 1236 110 / 190 120 / 200 130 / 210			
Coolin Heatin Power consu Currer Extern Dimen H x W : Net we Heat e	g capac g capac g capac mption at al finish sion x D eight xchange Type x Airflow External static pressure Type	Cooling Heating Cooling Heating Cooling Heating Heating Heating Heating Practice Pra	BTU/h kW BTU/h kW A A A mm(in.) kg(lbs.) m³/min L/s cfm Pa Pa Pa	3-phase 380-415V 50H. 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galva 470 x 12t (18-916 x 49 1000 Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200 150 / 210 160 / 220 3-phase ind	z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 nized 00 x 1120 11/4 x 44-1/8) 221) ate fin and copper tube) fan x 2 35 583 1236 110 / 190 120 / 200 130 / 210 uction motor			
Coolin Heatin Power consu Currer Extern Dimen H x W Net we Heat e	g capac g capac mption ut al finish sion x D sight xchange Type x Airflow External static pressure Type Output	Cooling Heating Cooling Heating Heating Heating Heating Prate Service	BTU/h kW BTU/h kW BTU/h kW kW A A A mm(in.) kg(lbs.) m³/min L/s cfm Pa Pa	3-phase 380-415V 50H. 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galva 470 x 12t (18-916 x 49 100 Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200 150 / 210 160 / 220 3-phase ind 0.20	z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 nized 50 x 1120 -1.1/4 x 44-1/8) 2211 ate fin and copper tube) fan x 2 35 583 1236 110 / 190 120 / 200 130 / 210 uction motor 0.23			
Coolin Heatin Power consu Currer Extern Dimen H x W Net we Heat e	g capac g capac g capac mption at al finish sion x D eight xchange Type x Airflow External static pressure Type	Cooling Heating Cooling Heating Heating er Quautity rate 380V 400V 415V	BTU/h kW BTU/h kW kW A A mm(in.) kg(lbs.) m³/min L/s cfm Pa Pa kW	3-phase 380-415V 50H. 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galva 470 x 12t (18-916 x 49 100) Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200 150 / 210 160 / 220 3-phase ind 0.20 Synthetic fiber unmoven	z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.00 x 1120 1.1/4 x 44-1/8) 221) ate fin and copper tube) fan x 2 35 583 1236 110 / 190 120 / 200 130 / 210 uction motor 0.23 cloth filter (long life type)			
Coolin Heatin Power consu Currer Extern Dimen H x W Net we Heat e	g capac g capac g capac g capac mption at al finish sion x D eight xxchange Type x Airflow External static pressure Type Output er (optio	Cooling Heating Cooling Heating Heating Processing Heating Processing Heating Processing	BTU/h kW BTU/h kW A A A mm(in.) kg(lbs.) m³/min L/s cfm Pa Pa Pa	3-phase 380-415V 50H. 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galva 470 x 12t (18-916 x 49 100 Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200 150 / 210 160 / 220 3-phase ind 0.20	z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 nized 50 x 1120 -1.1/4 x 44-1/8) 2211 ate fin and copper tube) fan x 2 35 583 1236 110 / 190 120 / 200 130 / 210 uction motor 0.23			
Coolin Heatin Power consu Currer Extern Dimen H x W : Net we Heat e Fan Motor Air filte Refrigit	g capac g capac mption al finish sion x D sight xchange Type x Airflow External static pressure Type Output er (optioe	er Quautity above the state of	BTU/h kW BTU/h kW A A A mm(in.) kg(lbs.) m³/min L/s cfm Pa Pa Pa kW mm(in.)	3-phase 380-415V 50H. 22.4 76,400 21.2 72,300 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 0.58 / 0.74 Galve 470 x 125 (18-9/16 x 49 100) Cross fin (Aluminum ple Sirocco 28 467 989 140 / 200 150 / 210 160 / 220 3-phase ind 0.20 Synthetic fiber unmoven	z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 inized 60 x 1120 1/4 x 44-1/8) (221) ate fin and copper tube) fan x 2 35 583 1236 110 / 190 120 / 200 130 / 210 uction motor 0.23 cloth filter (long life type)			
Coolin Heatin Power consu Currer Extern Dimen H x W : Net we Heat e Fan Motor Air filte Refrigit	g capac g capac g capac g capac mption at al finish sion x D eight xxchange Type x Airflow External static pressure Type Output er (optio	Cooling Heating Cooling Heating Heating Heating Heating Frate Salv 400V 415V Gas (Flare) Liquid	BTU/h kW BTU/h kW kW A A mm(in.) kg(lbs.) m³/min L/s cfm Pa Pa kW	3-phase 380-415V 50H. 22.4 76,400 21.2 72,300 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 0.58 / 0.74 Galve 470 x 125 (18-9/16 x 49 100) Cross fin (Aluminum ple Sirocco 28 467 989 140 / 200 150 / 210 160 / 220 3-phase ind 0.20 Synthetic fiber unmoven	z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.00 x 1120 1.1/4 x 44-1/8) 221) ate fin and copper tube) fan x 2 35 583 1236 110 / 190 120 / 200 130 / 210 uction motor 0.23 cloth filter (long life type)			
Coolin Heatin Power consu Currer Extern Dimen H x W : Net we Heat e	g capac g capac mption al finish sion x D sight xchange Type x Airflow External static pressure Type Output er (optioe	Cooling Heating Cooling Heating Cooling Heating Heating Frate Guautity Trate S80V 400V 415V S0n) Gas (Flare) Liquid (Flare)	BTU/h kW BTU/h kW A A A mm(in.) kg(lbs.) m³/min L/s cfm Pa Pa Pa kW mm(in.)	3-phase 380-415V 50H. 22.4 76,400 21.2 72,300 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 0.58 / 0.74 Galve 470 x 125 (18-9/16 x 49 100) Cross fin (Aluminum ple Sirocco 28 467 989 140 / 200 150 / 210 160 / 220 3-phase ind 0.20 Synthetic fiber unmoven	z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 inized 60 x 1120 1/4 x 44-1/8) (221) ate fin and copper tube) fan x 2 35 583 1236 110 / 190 120 / 200 130 / 210 uction motor 0.23 cloth filter (long life type) Ø22.2 (Ø7/8)			
Coolin Heatin Power consu Currer Extern Dimen H x W Net we Heat e Fan Motor Air filte Refrigepipe di	g capac g capac g capac mption at al finish sion x D sight xxchange Type x Airflow External static pressure Type Output er (optio	Cooling Heating Cooling Heating Cooling Heating Heating Frate Guautity Trate S80V 400V 415V S0n) Gas (Flare) Liquid (Flare)	BTU/h kW BTU/h kW A A A mm(in.) kg(lbs.) m³/min L/s cfm Pa Pa Pa kW mm(in.) mm(in.)	3-phase 380-415V 50H. 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galve 470 x 12e (18-916 x 49 1000 Cross fin (Aluminum ple Sirocco 28 467 989 140 / 200 150 / 210 160 / 220 Synthetic fiber unmoven ø19.05 (ø3/4)	z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 nized 00 x 1120 1/4 x 44-1/8) 221) ate fin and copper tube) fan x 2 35 583 1236 110 / 190 120 / 200 130 / 210 uction motor 0.23 cloth filter (long life type) Ø22.2 (Ø7/8) (Ø3/8) ((-1/4)			
Coolin Heatin Power consu Currer Extern Dimen H x W : Net we Heat e Fan Motor Air filte Refrige pipe di Field dr Sound p	g capac g capac g capac mption at al finish sion x D sight xxchange Type x Airflow External static pressure Type Output er (optio	Cooling Heating Cooling Heating Heating Heating Heating Auautity rate 380V 400V 415V Con) Gas (Flare) Liquid (Flare) diameter	BTU/h kW BTU/h kW BTU/h kW A A A mm(in.) kg(lbs.) m³/min L/s cfm Pa Pa Pa kW mm(in.) db(A) dB(A)	3-phase 380-415V 50H. 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galva 470 x 12t (18-916 x 49 100) Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200 150 / 210 160 / 220 3-phase ind 0.20 Synthetic fiber unmoven ø19.05 (ø3/4) ø9.52 39 / 42 40 / 43	z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.0 x 1120 1.1/4 x 44-1/8) 221) ate fin and copper tube) fan x 2 35 583 1236 110 / 190 120 / 200 130 / 210 uction motor 0.23 cloth filter (long life type) Ø22.2 (Ø7/8) (Ø3/8) ((1-1/4) 40 / 44 40 / 45			
Coolin Heatin Power consu Currer Extern Dimen H x W Net we Heat e Fan Motor Air filte Refrigepipe di	g capac g capac g capac mption at al finish sion x D sight xxchange Type x Airflow External static pressure Type Output er (optio	er Quautity rate 380V 400V 415V Case (Flare) Liquid (Flare) diameter 380V	BTU/h kW BTU/h kW A A A mm(in.) kg(lbs.) m³/min L/s cfm Pa Pa Pa kW mm(in.) mm(in.)	3-phase 380-415V 50H. 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galve 470 x 12e (18-916 x 49 1000 Cross fin (Aluminum ple Sirocco 28 467 989 140 / 200 150 / 210 160 / 220 Synthetic fiber unmoven ø19.05 (ø3/4)	z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 nized 00 x 1120 1/4 x 44-1/8) 221) ate fin and copper tube) fan x 2 35 583 1236 110 / 190 120 / 200 130 / 210 uction motor 0.23 cloth filter (long life type) Ø22.2 (Ø7/8) (Ø3/8) ((-1/4)			

Notes:

- 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/280V60Hz (PEFY-P80, 140VHM-E-F type), at 220Pa 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

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

- 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

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

 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 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)

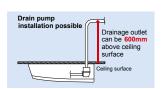
	Standard	High ceiling
Ceiling height	3.0(9-13/16)	4.2(13-3/4)

Greatly simplified installation

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

Drain pump option available with all models

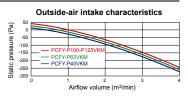
The pumping height of the optional drain pump has been increased from 400 mm to 600 mm, expanding flexibility in choosing unit location during installation work.



Outside-air intake

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

m (ft)



Equipped with automatic air-speed adjustment

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



				PCFY-P40VKM-E	PCFY-P63VKM-E	PCFY-P100VKM-E	PCFY-P125VKM-E		
Power	source				1-phase 220-240V 50H	z / 1-phase 220V 60Hz			
01:		*1	kW	4.5	7.1	11.2	14.0		
Cooling	g capacit	y *1	BTU/h	15,400	24,200	38,200	47,800		
I I 40-		*1	kW	5.0	8.0	12.5	16.0		
Heating	consumption Hea	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	ι	Heating	Α	0.28	0.33	0.65	0.76		
Externa	al finish(N	Munsell N	lo.)		6.4Y 8	.9/ 0.4			
D:		W D	mm	230 x 960 x 680	230 x 1,280 x 680	230 x 1,6	600 x 680		
Dimension H x W x D		in.	9-1/16 x 37-13/16 x 26-3/4	9-1/16 x 50-3/8 x 26-3/4	9-1/16 x 6	63 x 26-3/4			
Net weight kg(lbs.)		kg(lbs.)	24(53)	32 (71)	36 (79)	38 (84)			
Heat ex	xchanger	-			Cross fin (Aluminum	fin and copper tube)			
	Type x	Type x Quantity		Sirocco fan x 2	Sirocco fan x 3	Sirocco	fan x 4		
	Airflow	*2	m³/min	10-11-12-13	14-15-16-18	21-24-26-28	21-24-27-31		
Fan	1			D-Mid2-Mid1-Hi)		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		C				
	Туре				DC n	notor			
Motor	Output		kW	0.090	0.095	0.1	160		
Air filte	r				PP Honeycor	mb (long life)			
Refrige	erant	Gas (Flare)	mm(in.)	ø12.7 (ø1/2)	ø15.88 (ø5/8)	ø15.88 (ø5/8) / ø19.0	8) / ø19.05 (ø3/4) (Compatible)		
pipe di	ameter	Liquid (Flare)	mm(in.)	ø6.35 (ø1/4)		ø9.52 (ø3/8)			
Field dr	ain pipe	diameter	mm(in.)		O.D. 2	26 (1)			
	pressure 2-Mid1-H		dB(A)	29-32-34-36	31-33-35-37	36-38-41-43	36-39-42-44		

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

INDOOR UNIT Wall mounted type

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



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



Capacity range											
Capacity	P15	P20	P25	P32	P40	P50	P63	P100			
VBM	0	0									
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

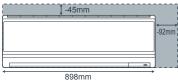
PKFY-P VBM features

Compact profile

Quiet operation

Compact size of 898mm

Width size reduced to match small size buildings and offices.



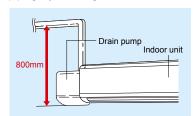
Comparison with PKFY-P VGM-E

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.



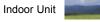
				PKFY-P15VBM-E	PKFY-P20VBM-E	PKFY-P25VBM-E	PKFY-P32VHM-E	PKFY-P40VHM-E	PKFY-P50VHM-E	
Power	source					1-phase 220-240V 50H	lz / 1-phase 220V 60Hz	2		
0 !!		. *1	kW	1.7	2.2	2.8	3.6	4.5	5.6	
Cooling	g capaci	^{ty} *1	BTU/h	5,800	7,500	9,600	12,300	15,400	19,100	
Lleating	~ ~~~~	*1	kW	1.9	2.5	3.2	4.0	5.0	6.3	
пеаші	g capaci	^{ty} *1	BTU/h	6,500	8,500	10,900	13,600	17,100	21,500	
Power	(Cooling *4	kW		0.04			0.04		
consun	nption	leating	kW		0.04			0.03		
Curren	. (Cooling *4	Α		0.20			0.40		
Curren	ŀ	leating	Α		0.20			0.30		
Externa	al finish(Munsell N	l o.)		Plastic (1.0Y 9.2/0.2)			Plastic (1.0Y 9.2/0.2)		
, , , ,			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 we	ight		kg(lbs.)		10 (23)		13(29)			
Heat exchanger						Cross fin (Aluminum	fin and copper tube)			
	Type x Quantity					Line flow	w fan x 1			
	Airflow	rate *2	m³/min	4.9-5.0-5.2-5.3	4.9-5.2	-5.6-5.9	9-10-11	9-10.5-11.5	9-10.5-12	
Fan	1	2-Mid1-Hi)	L/s	82-83-87-88	82-87-93-98		150-167-183	150-175-192	150-175-200	
	`		cfm	173-177-184-187	173-184	-198-208	318-353-388 318-371-406 318-371-424			
	External s	tatic pressure	Pa			(0			
Motor	Type			1	-phase induction moto	r	DC motor			
IVIOLOI	Output	:	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)	()			912.7 (9172)			(Compatible)	
pipe di	ameter	Liquid	mm(in.)			ø6.35 (ø1/4)			ø6.35 (ø1/4) / ø9.52 (ø3/8)	
		(Flare)	` ′			. ,			(Compatible)	
Field dr	rain pipe	diameter	mm(in.)			I.D.16	6 (5/8)			
	Sound pressure level		dB(A)	29-31-32-33	29-31	-34-36	34-37-41	34-38-41	34-39-43	

Notes:

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

				PKFY-P63VKM-E	PKFY-P100VKM-E					
Power source				1-phase 220-230-240V 50Hz / 1-phase 220V 60Hz						
*1			kW	7.1	11.2					
Cooling	g capaci	^{ty} *1	BTU/h	24,200	38,200					
114:		*1	kW	8.0	12.5					
Heating	g capaci	^{ty} *1	BTU/h	27,300	42,600					
Power	C	cooling *4	kW	0.05	0.08					
consun	nption F	leating	kW	0.04	0.07					
0	,	cooling *4	Α	0.37	0.58					
Curren	ι F	leating	Α	0.30	0.51					
Externa	al finish(Munsell N	lo.)	Plastic (1.0	OY 9.2/0.2)					
Dimens	sion H x	WxD	mm(in.)	365 x 1,170 x 295 (14-3/8 x 46-1/16 x 11-5/8)						
Net we	Net weight kg(lbs.)			21 (46)						
Heat ex	Heat exchanger			Cross fin (Aluminum	fin and copper tube)					
	Type x	Quantity		Line flow fan x 1						
	Airflow	rate *2	m³/min	16-20	20-26					
Fan	(Lo-Hi)		L/s	267-333	333-433					
	` ′		cfm	565-706	706-918					
	External st	atic pressure	Pa	0						
Motor	Туре			DC motor						
WOO	Output		kW	0.056						
Air filte	r			PP Hon	•					
		Gas	mm(in.)	ø15.88 (ø5/8)	ø15.88 (ø5/8) / ø19.05 (ø3/4)					
Refrige		(Flare) Liquid	()	210:00 (20:0)	(Compatible)					
pipe di	pipe diameter		mm(in.)	ø9.52	52 (ø3/8)					
Field dr	ain pipe	diameter	mm(in.)	I.D. 10	6(5/8)					
	Sound pressure level		dB(A)	39-45	41-49					

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



INDOOR UNIT Floor standing exposed

PFFY-P VKM-E2



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

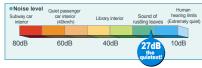


Quiet operation

Mitsubishi Electric air conditioners have always been some of the quietest models available in the market. Our new floorstanding models are no exception.

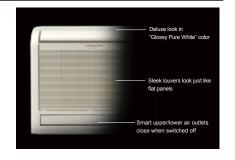
It can create a silent and comfortable space where the occupants would not even recognize the existence of air conditioner operation.

*2.5kw class



Sophisticated Design

From Mitsubishi Electric, an innovative new floor-standing air-conditioner. Our pleasing mix of streamlined form and diversified function. Engineered to



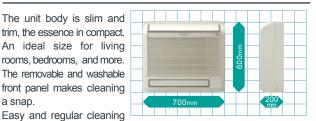
keep room walls free, furnish comfy cooling in summer, toasty heating in winter.

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

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



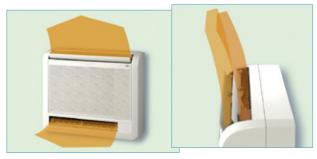
allows your air-conditioner stay beautiful while keeping its energy-efficient operation always possible.

Optimum Air Distribution

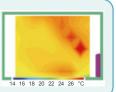
Comfy room temperatures are realized by the optimum, powerful and efficient air distribution through upper and lower air outlets.

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 comer of the room. In heating mode, the warm air is smartly controlled to stay at the floor level: Your feet do not feel chilled any more!





				PFFY-P20VKM-E2	PFFY-P25VKM-E2	PFFY-P32VKM-E2	PFFY-P40VKM-E2					
Power	source			1-phase 220-240V 50Hz								
Caalina sanasit		*1	kW	2.2	2.8	3.6	4.5					
Coolin	Cooling capacity		BTU/h	7,500	9,600	12,300	15,400					
Heating capacity *1		. *1	kW	2.5	3.2	4.0	5.0					
		BTU/h	8,500	10,900	13,600	17,100						
Power		Cooling	kW	0.025	0.025	0.025	0.028					
consur	mption	Heating	kW	0.025	0.025	0.025	0.028					
Curren	nt.	Cooling	Α	0.20	0.20	0.20	0.24					
Curren	ıı	Heating	Α	0.20	0.20	0.20	0.24					
Extern	al finish				Plastic (Pu	ure white)						
Dimen	sion		mm	600 x 700 x 200								
H x W	x D		in.	23-5/8 x 27-9/16 x 7-7/8								
Net we	eight		kg(lbs.)	15 (34)								
Heat e	exchange	r		Cross fin (Alminium plate fin and copper tube)								
		Quantity			Line flow	fan x 2						
Fan	Airflow (Lo-Mic	rate I-Hi-SHi)	m³/min	5.9-6.8-7.6-8.7	5.9-6.8-7.6-8.7 6.1-7.0-8.0-9.1 6.1-7.0-8.0-9.1							
	Eaterna	al static re	Pa	0								
	Туре			DC motor								
Motor	Output		kW		0.03	x 2						
Air filte	er			PP honeycomb fabric (Catechin Filter)								
Refrige	erant	Gas(Flare)	mm(in.)		ø12.7	(ø1/2)						
pipe di	iameter	Liquid(Flare)	mm(in.)		ø6.35	(ø1/4)						
		diamete	r		I.D.16	(5/8)						
Sound pressure level (Lo-Mid-Hi-SHi) *2		dB(A)	27-31-34-37	28-32-35-38	28-32-35-38	35-38-42-44						

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

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

^{*3} It is measured in anechoic room.

INDOOR UNIT Floor standing exposed

PFFY-P VLEM-E



Floor mounted lowboy type effective in perimeter zone.



Standardized design with mild lines.

Supports various types of spaces from office buildings and shop buildings to hospitals.

Water vapor permeable film humidifier can be installed.

Remote controller can be installed onto the main unit.

Compact unit for easy air conditioning in perimeter zone.

The compact body of 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.

				PFFY-P20VLEM-E	PFFY-P25VLEM-E	PFFY-P32VLEM-E	PFFY-P40VLEM-E	PFFY-P50VLEM-E	PFFY-P63VLEM-E			
Power source				1-phase 220-240V 50Hz / 1-phase 208-230V 60Hz								
Cooling capacity *1 *1		*1	kW	2.2	2.8	3.6	4.5	5.6	7.1			
		BTU/h	7,500	9,600	12,300	15,400	19,100	24,200				
11		*1	kW	2.5	3.2	4.0	5.0	6.3	8.0			
Heating	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			
Curren		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			
Externa	al finish(N	Munsell N	lo.)			Acrylic pai	nt (5Y 8/1)					
Dimon	sion H x	W v D	mm	630 x 1,0	050 x 220	630 x 1,1	70 x 220	630 x 1,4	10 x 220			
Dimens	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	ight		kg(lbs.)	23	(51)	25 (56)	26 (58)	30 (67)	32 (71)			
Heat e	xchanger	r			(Cross fin (Aluminum pla	ate fin and copper tube)				
	Type x	Quantity		Sirocco	Sirocco fan x 1 Sirocco fan x 2							
	Airflow	roto	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)	rate *2	L/s	92-108		117-150	150-183	200-233	200-258			
	(LO-HI)		cfm	194-230		247-318	247-318 318-388 42		424-547			
	External sta	atic pressure	Pa									
Motor	Туре			1-phase induction motor								
IVIOIOI	Output		kW	0.0)15	0.018	0.018 0.030		0.050			
Air filte	r			PP Honeycomb fabric (washable)								
pipe diameter Liqui		Gas (Flare)	mm(in.)		ø12.7 (ø1/2)							
		Liquid (Flare)	mm(in.)			ø9.52 (ø3/8)						
Field dr	ain pipe	diameter	mm(in.)		I.D.26 (1)	<accessory hose="" o.d.2<="" td=""><td>27 (1-3/32) (top end :20</td><td>(13/16))></td><td></td></accessory>	27 (1-3/32) (top end :20	(13/16))>				
Sound pressure level (Lo-Hi) *2 *3 *4		dB(A)	34	-40	35-40 38-43		-43	40-46				

- *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)
- *4 It is measured in anechoic room.

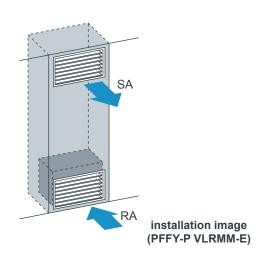
INDOOR UNIT Floor mounted concealed type

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.

				PFFY-P20VLRM-E	PFFY-P25VLRM-E	PFFY-P32VLRM-E	PFFY-P40VLRM-E	PFFY-P50VLRM-E	PFFY-P63VLRM-E				
Dower	oouroo.			FFF1-F2UVLKIVI-E	1-phase 220-240V 50Hz / 1-phase 208-230V 60Hz								
Power source *1 kW			kW	2.2	7.1								
Cooling consoity		٠.	BTU/h	7.500	2.8 9.600	3.6 12.300	4.5 15.400	5.6 19.100	24.200				
	9 , , ,			,	-,	7	-,	-,	,				
Heating capacity		v *1	kW	2.5	3.2	4.0	5.0	6.3	8.0				
		, "1	BTU/h	8,500	10,900	13,600	17,100	21,500	27,300				
Power		Cooling	kW	0.04		0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11				
consu	mption	Heating	kW		/ 0.06	0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11				
Curren		Cooling	Α	0.19	/ 0.25	0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47				
Ounch		Heating	Α	0.19	/ 0.25	0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47				
Externa	al finish(N	Munsell N	lo.)			Galvanized	steel plate						
Dimon	sion H x	W v D	mm	639 x 88	36 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 weight		kg(lbs.)	18.5	(41)	20 (45)	21 (47)	27 (60)						
Heat ex	xchanger	r			Cross fin (Aluminum plate fin and copper tube)								
	Type x	Quautity		Sirocco	fan x 1	Sirocco fan x 2							
	Airflow	roto *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)	iale	L/s	92-108		117-150	150-183	200-233	200-258				
	(LO-HI)		cfm	194-230		247-318 318-388		424-494	424-547				
	External sta	atic pressure	Pa			0							
	Туре			1-phase induction motor									
Motor	Output		kW	0.0)15	0.018	0.018 0.030 0.035						
Air filte	r			PP Honeycomb fabric (washable)									
		Gas (Flare)	mm(in.)		ø12.7 (ø1/2)								
pipe di	pipe diameter		mm(in.)			ø6.35 (ø1/4)							
Field dr	ain pipe	diameter	mm(in.)		I.D.26 (1)	Accessory hose O.D.:	27 (1-3/32) (top end :20	(13/16))>					
Sound (Lo-Hi)	pressure	e level *2 *3 *4	dB(A)	34	-40	35-40	38-	-43	40-46				

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

				PFFY-P20VLRMM-E	PFFY-P25VLRMM-E	PFFY-P32VLRMM-E	PFFY-P40VLRMM-E	PFFY-P50VLRMM-E	PFFY-P63VLRMM-E				
Power source				1-phase 220-240V 50Hz / 1-phase 220-240V 60Hz									
Cooling capacity		*1	kW	2.2	2.8	3.6	4.5	5.6	7.1				
		y *1	BTU/h	7,500	9,600	12,300	15,400	19,100	24,200				
Heating capacit		*1	kW	2.5	3.2	4.0	5.0	6.3	8.0				
пеаші	g capacit	^y *1	BTU/h	8,500	10,900	13,600	17,100	21,500	27,300				
Power		Cooling	kW	0.	04	0.04	0.05	0.05	0.07				
consu	mption	Heating	kW	0.	04	0.04	0.05	0.05	0.07				
Curren		Cooling	Α	0.	34	0.38	0.43	0.48	0.59				
Curren	IL	Heating	Α	0.	34	0.38	0.43	0.48	0.59				
Externa	al finish(N	Munsell N	lo.)			Galvanized	steel plate						
Dimon	sion H x	W v D	mm	639 x 88	36 x 220	639 x 1,0	06 x 220	639 x 1,246 x 220					
Dimen	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	eight		kg(lbs.)	18.5	(41)	20 (45)	()						
Heat e	xchanger	-		Cross fin (Aluminum plate fin and copper tube)									
	Type x 0	Quautity		Sirocco	fan x 1	Sirocco fan x 2							
	Airflow	roto	m³/min	4.5-5	4.5-5.5-6.5		8.0-9.5-11.0	10.0-12.0-14.0	11.0-13.0-15.5				
Fan	(Lo-Mid-F		L/s	75-92	75-92-108		133-158-183	167-200-233	183-217-258				
	(LO-IVIIU-F	11)	cfm	159-19	94-230	230-265-318 282-335-388		353-424-494	388-459-547				
	External station	c pressure *2	Pa			20/40/60							
Motor	Туре			DC motor									
IVIOLOI	Output		kW										
Air filte	er			PP Honeycomb fabric (washable)									
Refrige	erant	Gas	mm(in.)			ø12.7 (ø1/	2) Brazed		ø15.88 (ø5/8) Brazed				
pipe di	ameter	Liquid	mm(in.)			ø6.35 (ø1/4) Brazed ø9.52 (ø3/8) Brazed							
Field di	rain pipe	diameter	mm(in.)		I.D.26 (1)	Accessory hose O.D.2	27 (1-3/32) (top end :20	(13/16))>					
Sound	pressure	20Pa	dB(A)	31-3	6-40	27-32-37	30-36-40	32-37-41	35-40-44				
level (Le	o-Mid-Hi)	40Pa	dB(A)	34-3	9-42	30-35-41	32-38-42	35-40-44	36-42-47				
	*3	60Pa	dB(A)	35-4	0-43	32-37-42	3.5-39-44	36-41-45	38-43-48				

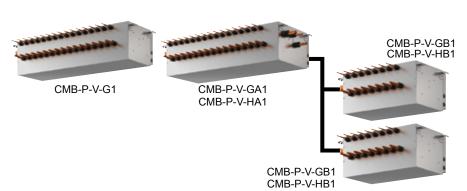
- 1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.

 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

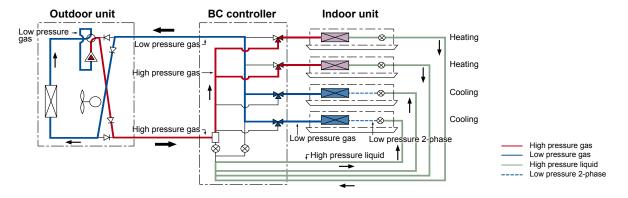
 pipe length: 7.5m(24-9/16ft) Height difference: 0m(0ft)
- *2 The external static pressure is set to 20Pa at factory shipment.
- *3 The sound pressure level in operation is measured at 1m apart from the front side and the bottom side of the unit in anechoic room. (Noise meter A-scale value) Connect the 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

					CMP D104V C1	CMB-P105V-G1	CMP D106V/C1	CMP D100V C1	CMP B1010V C1	CMB-P1013V-G1	CMB B1016V C1				
Model name							6	8							
Number of branch															
Power source	e			0 1:	0.007/0.070/0.005	1-phase 220/230/240V 50Hz/60Hz									
			50Hz	Cooling		0.082/0.093/0.104	0.097/0.110/0.123	0.127/0.144/0.161	0.156/0.177/0.198	0.201/0.228/0.255	0.246/0.279/0.312				
Power input		kW		heating	0.030/0.034/0.038	0.038/0.043/0.048	0.045/0.051/0.057	0.060/0.068/0.076	0.075/0.085/0.095	0.097/0.110/0.123	0.119/0.135/0.151				
			60Hz	Cooling	0.054/0.061/0.067	0.066/0.074/0.082	0.078/0.088/0.097	0.102/0.115/0.127	0.126/0.141/0.156	0.162/0.182/0.201	0.198/0.222/0.246				
			001.12	heating	0.024/0.027/0.030	0.030/0.034/0.038	0.036/0.041/0.045	0.048/0.054/0.060	0.060/0.068/0.075	0.078/0.088/0.097	0.096/0.108/0.119				
			50Hz	Cooling	0.31/0.34/0.36	0.38/0.41/0.44	0.45/0.48/0.52	0.58/0.63/0.68	0.71/0.77/0.83	0.92/1.00/1.07	1.12/1.22/1.30				
Current		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	0.55/0.59/0.63				
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				
			00HZ	heating	0.11/0.12/0.13	0.14/0.15/0.16	0.17/0.18/0.19	0.22/0.24/0.25	0.28/0.30/0.32	0.36/0.39/0.41	0.44/0.47/0.50				
External finis	sh					Gal	vanized steel pla	te (Lower part dra	ain pan painting I	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 *				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	outdoor High pressure pipe				P200		P250, P300		P350					
Refrigerant	unit			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										
diameter					Indoor unit Model 50 or smaller:ø6,35 brazed, Over 50:ø9,52 brazed										
	To indoor	Liquic	i pipe		(Ø12.7 with optional joint pipe used.)										
	unit				Indoor unit Model 50 or smaller:ø12.7 brazed, Over 50:ø15.88 brazed										
		Gas p	oipe		(ø19.05 with optional joint pipe used.)										
Drain pipe	1	<u> </u>						O.D. 32mm	. ,						
Net weight		kg			24	27	28	33	38	45	52				
					*Drain connection pipe (with flexible hose and insulation)										
Accessories					•Reducer										
						*17	Cuucei								

Model name					CMB-P108V-GA1 CMB-P1010V-GA1 CMB-P1013V-0			P1013V-GA1	CME	3-P1016V-GA1	CMB-P1016V-HA1			
Number of br	ranch				8		10			13		16		
Power source	e					1-phase 220/230/240V 50Hz/60Hz								
				Cooling	0.127/0.144/0.16	61 (0.156/0.177	7/0.198	0.201/	0.228/0.255		0.246/0.2	279/0.312	
			50Hz	heating	0.060/0.068/0.07		0.075/0.085			0.110/0.123		0.119/0.1		
Power input		kW		Cooling	0.102/0.115/0.12		0.126/0.141			0.182/0.201		0.198/0.2		
			60Hz	heating	0.048/0.054/0.06		0.060/0.068			0.088/0.097			108/0.119	
				Cooling	0.58/0.63/0.68		0.71/0.77/			/1.00/1.07			22/1.30	
			50Hz	heating	0.28/0.30/0.32		0.35/0.37/			/0.48/0.52			59/0.63	
Current		Α	-	Cooling	0.47/0.50/0.53		0.58/0.62/			/0.40/0.32		0.90/0.		
			60Hz	heating										
E				neating	0.22/0.24/0.25	<u> </u>	0.28/0.30/			/0.39/0.41	L .		47/0.50	
External finis							Gaivaniz	zea steel		ver part drain p	oan pai	nting N1.5)		
Indoor unit ca										80 or smaller				
connectable					(•U	Jse optio						nit capacity exce	eds 81.)	
	Outdoor unit ★						Refer to	the comb	ination ch		roller F	R2/WR2 series		
Height			mm							289				
Width			mm							1,110				
Depth			mm							520				
								Conn	ectable c	utdoor unit ca				
					P200	P2	50,300	P3	50	P400~P50	0	P550~P650	P700~P800/P850~P900*4	
	To outdoor unit	High p	pressure	e pipe	ø15.88 (ø5/8) Brazed		ø19.05 (ø3	3/4) Braze	d	ø22.2 (ø7/8) Br	azed ø	28.58 (ø1-1/8) Brazed	ø28.58 (ø1-1/8) Brazed ø28.58 (ø1-1/8) Brazed	
		Low p	w pressure pipe		ø19.05 (ø3/4) Brazed	ø22.2 (ø	ø7/8) Brazed	zed ø28.58 (ø1-1/8) Braz		Brazeo	t	ø34.93 (ø1-3/8) Brazed ø41.28 (ø1-5/8) Brazed		
						l In	door unit M	ladal 50 ar amallarias 25 brazad Over				0.g0 52 brazed	J (J . 1.1)	
Refrigerant	To indoor	Liquid	l pipe		Indoor unit Model 50 or smaller: ø6.35 brazed, Over 50: ø9.52 brazed									
piping	unit				(ø12.7 with optional joint pipe used.) Indoor unit Model 50 or smaller:ø12.7 brazed, Over 50:ø15.88 brazed									
diameter	uniit	Gas p	ipe			ind	door unit Mo							
										ional joint pipe				
										nnected to this				
	To another BC				~P200		P201~P			01~P350	-	P351~P400	P401~P450	
	controller		press ga		` '			19.05 (ø3	/4) Braze	d			/8) Brazed	
		<u> </u>	ress ga	is pipe	ø19.05 (ø3/4) Brazed ø22.2 (ø7/8) Bra						3 (ø1-1/8) Brazed			
		Liquid	Liquid pipe		ø9.52 (ø3/8) Brazed ø12.7 (ø1/2) Brazed ø15.88 (ø5/8) Braze									
Drain pipe						O.D. 32mm								
Net weight		kg			43		48			55		62	69	
Accessories						•	Drain conne	ection pipe	e (with fle	xible hose and	insula	tion) •Reducer		
					OMD DA	10.01.05	24		0140.7	24001.004		0140	D40401411D4	
Model name					CMB-P104V-GB1			CMB-P108V-GB1 8				CMB-P1016V-HB1		
Number of bi						4		1 ===	220/2		/COL I=		16	
Power source	e			O 1:	0.000/0	000/0.0	70	1-pna		30/240V 50Hz	/6UHZ	1 0.00	710 00010 001	
			50Hz	Cooling	0.060/0.068/0.076			0.119/0.135/0.151					7/0.269/0.301	
Power input		kW		heating	0.030/0.0					0.068/0.076			9/0.135/0.151	
			60Hz	Cooling	0.048/0.0					0.108/0.119			2/0.216/0.237	
			1	heating	0.024/0.0					0.054/0.060			6/0.108/0.120	
			50Hz	Cooling		.30/0.32			0.55/0.59/0.63				8/1.17/1.26	
Current		Α	30112	heating	0.14/0.	.15/0.16	3		0.28	/0.30/0.32		0.5	5/0.59/0.63	
Current		_ ^	60Hz	Cooling	0.22/0.	.24/0.25	5		0.44	/0.47/0.50		8.0	8/0.94/0.99	
			00112	heating	0.11/0.	.12/0.13	3		0.22	/0.24/0.25		0.4	4/0.47/0.50	
External finis	h						Galvaniz	zed steel	olate (Lov	ver part drain p	an pai	nting N1.5)		
Indoor unit ca	apacity									80 or smaller		<u> </u>		
connectable					(•U	Jse optic	onal joint nir	pe combin			total u	nit capacity exce	eds 81.)	
	Outdoor unit ★				(-							R2/WR2 series	,	
Height mm						284				T	284			
Width			mm					648					1,098	
Depth			mm					432					432	
Бериі			.111111						onocit :	onnooted this	Cuk D	Coontroller	704	
										connected this	oud B(2 DOOL D	
	T- M-: 50							~P200, P2					0, P201~P450	
	To Main BC controller				~P200		P201~P:			01~P350		P351~P400	P401~P450	
	High pressure pipe			ø15.88 (ø5/8) Bra	5.88 (ø5/8) Brazed			1	ø22.2 (ø7/8) Brazed					

★ Combination chart of BC Controller for R2 series

kg

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

★ Combination chart of BC Controller for WR2 series

Indoor unit Model 50 or smaller:ø6.35 brazed, Over 50:ø9.52 brazed

(ø12.7 with optional joint pipe used.)

Indoor unit Model 50 or smaller:ø12.7 brazed, Over 50:ø15.88 brazed

(ø19.05 with optional joint pipe used.)

O.D. 32mm

•Drain connection pipe (with flexible hose and insulation) •Reducer

	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

ø19.05 (ø3/4) Brazed | ø22.2 (ø7/8) Brazed

ø9.52 (ø3/8) Brazed

Refrigerant

piping

diameter

Drain pipe

Net weight

To indoor

unit

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

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

Low pressure pipe

Liquid pipe

Liquid pipe

Gas pipe

 For sub BC controller CMB-P-B-GB1 the connectable indoor unit capacities may sum to equal that of a P350 unit or less. However, if two sub controllers are used the TOTAL sum of connectable units connected to BOTH sub controllers must also not exceed that a P350 unit. For sub BC controller CMB-P-1016V-HB1 the connectable indoor unit capacities may sum to equal that of a P350 unit or less. However, if two sub controllers are used the TOTAL sum of connectable units connected to BOTH sub controllers must also not exceed that a P450 unit.

55

ø15.88 (ø5/8) Brazed

ø28.58 (ø1-1/8) Brazed

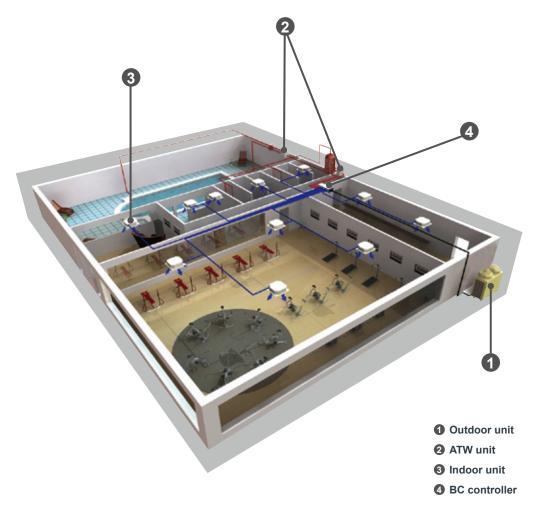
ø12.7 (ø1/2) Brazed

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 results in virtually no energy waste.



PWFY-P100VM-E-BU

Connectable to

CITY MULTI R2/WR2 series REPLACE MULTI R2 series

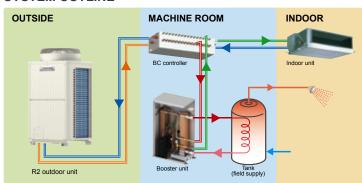
Applications

best for sanitary water, shower, etc.

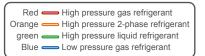
Operation

up to 70°C

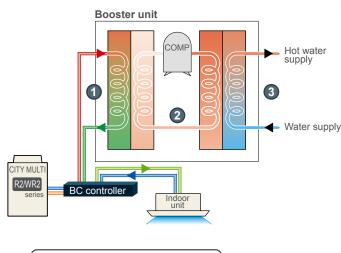
SYSTEM OUTLINE



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



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

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

HEX UNIT

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

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.

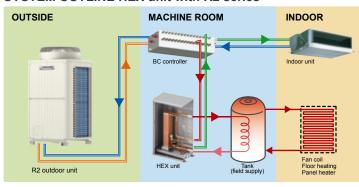
Operation

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

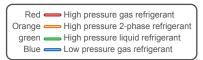


PWFY-P100VM-E1-AU PWFY-P200VM-E1-AU

SYSTEM OUTLINE HEX unit with R2 series



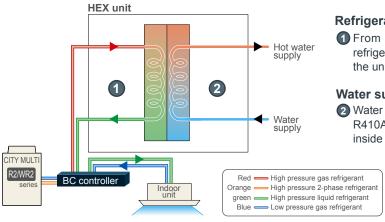
HEX unit is connected to BC controller with refrigerant pipes, and to the water tank with water pipes. HEX unit is not equipped with a compressor.



- *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?





Refrigerant flow

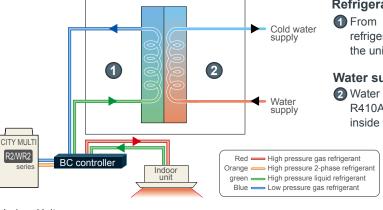
1 From the BC controller, high pressure R410A gas refrigerant is delivered to the HEX unit and returns to the unit as high pressure liquid refrigerant.

Water supply

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

Cold water supply

HEX unit



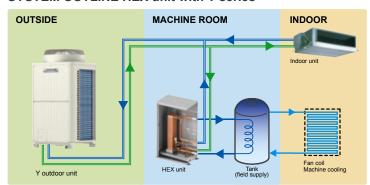
Refrigerant flow

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.

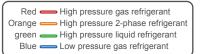
Water supply

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

SYSTEM OUTLINE HEX unit with Y series

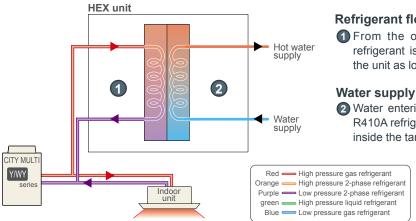


HEX unit is connected to Y outdoor unit with refrigerant pipes, and to the water tank with water pipes. HEX unit is not equipped with a compressor.

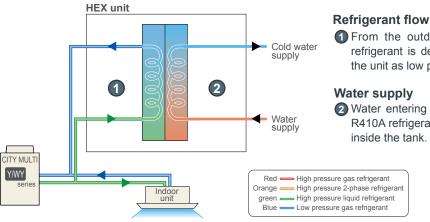


What makes HEX unit unique with Y/WY series?

Hot water supply



Cold 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.

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

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.

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			
Connectable ATW system		Booster/HEX				
Outdoor unit	Connectable series	R2*/	WR2			
Cutacor 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		11			

^{*}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



Model			PWFY-P100VM-E-BU				
Power source			1-phase 220-230-240V 50 / 60Hz				
	*1	kW	12.5				
	*1	kcal/h	10,800				
Heating capacity	*1	BTU/h	42,700				
(Nominal)	Power input	kW	2.48				
	Current input	Α	11.63-11.12-10.66				
T	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 (mea	asured in anechoic room)	dB <a>	44				
Diameter of refrigerant	Liquid	mm(in.)	ø9.52 (ø3/8") Brazed				
pipe	Gas	mm(in.)	ø15.88 (ø5/8") Brazed				
Diameter of water	Inlet	mm(in.)	PT3/4 Screw				
pipe	Outlet	mm(in.)	PT3/4 Screw				
Field drain pipe size		mm(in.)	ø32 (1-1/4")				
External finish			NO				
External dimension $H \times W \times D$ mm in.		mm	800 (785 without legs) × 450 × 300				
		in.	31-1/2" (30-15/16" without legs) × 17-3/4" × 11-13/16"				
Net weight	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 protec	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				
Defile	Type × original charg	e *2	R134a × 1.1kg (0.50lb)				
Refrigerant	Control		LEV				
	R410A	MPa	4.15				
Design pressure	R134a	MPa	3.60				
	Water	MPa	1.00				
Danisia a	External		WKB94L762				
Drawing	Wiring		WKE94C229				
Ctandard attack	Document		Installation Manual, Instruction Book				
Standard attachment	Accessory		Strainer, Heat insulation material, 2 × Connector sets				
Optional parts			NONE				
Remark			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.				

Notes:

*1 Nominal heating conditions

Outdoor Temp. : 7°CDB/6°CWB (45°FDB / 43°FWB)
Pipe length : 7.5 m (24-9/16 ft)

Pipe length: 7.5 m (2+0... Level difference: 0m (0ft)

Water flow rate 2.15m³/h

<WR2-series>

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

Inlet water Temp 65°C Water flow rate 2.15m3/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 always make water circulate or add the brine to the circulation water when the ambient temperature becomes 0°C (32°F) or less.
- * Please always make water circulate or pull out the circulation water completely when not using it.
- * Please do not use groundwater and well water.
 * Install the unit in an environment where the wet bulb Temp. will not exceed 32°C (90°F).
- * The water circuit must use the closed circuit.
- * Please do not use it as a drinking water.

ATW UNIT

HEX Unit

PWFY-P VM-E1-AU

► Specifications



Model			PWFY-P100VM-E1-AU	PWFY-P200VM-E1-AU		
Power source			1-phase 220-230-240V 50 / 60Hz	1-phase 220-230-240V 50 / 60Hz		
	*1	kW	12.5	25.0		
	*1	kcal/h	10.800	21.500		
Heating capacity	*1	BTU/h	42,700	85,300		
(Nominal)	Power input	kW	0.015	0.015		
	Current input	A	0.068-0.065-0.063	0.068-0.065-0.063		
	Current input	W.B.	-15~15°C (5~60°F) S - series	0.008-0.003-0.003		
		W.B.	-20~15.5°C (-4~60°F) Y - series	-20~15.5°C (-4~60°F) Y - series		
	Outdoor unit/	W.B.	-20~15.5 °C (-4~60 °F) F - Series -25~15.5 °C (-13~60°F) HP(ZUBADAN) - series	-25~15.5°C (-13~60°F) HP(ZUBADAN) - series		
	Heat source unit	W.B.	-20~32°C (-4~90°F) R2 - series	-20~32°C (-4~90°F) R2 - series		
Temp. range of	condition	VV.D.	10~45°C (50~113°F) WY - series	10~45°C (50~113°F) WY - series		
heating		-	10~45 °C (50~113 °F) WY - series	10~45 °C (50~113 °F) WY - series		
		-	,	10~45°C (50~113°F) WR2 - series		
	HEX unit inlet water	-	10~45°C (50~113°F) S - series,	10 1000 (50 10105)		
	temp.		10~40°C (50~104°F) Y, HP(ZUBADAN),	10~40°C (50~104°F)		
		1-10/	R2, WY, WR2 - series	00.4		
	*2	kW	11.2	22.4		
Cooling capacity	*2	kcal/h	9,600	19,300		
(Nominal)	*2	BTU/h	38,200	76,400		
,	Power input	kW	0.015	0.015		
	Current input	Α	0.068-0.065-0.063	0.068-0.065-0.063		
		D.B.	-5~46°C (23~115°F) Y - series	-5~46°C (23~115°F) Y - series		
	Outdoor unit/	D.B.	-5~43°C (23~110°F) HP(ZUBADAN) - series	-5~43°C (23~110°F) HP(ZUBADAN) - series		
Temp. range of		D.B.	-5~46°C (23~115°F) R2 - series	-5~46°C (23~115°F) R2 - series		
cooling	condition	-	10~45°C (50~113°F) WY - series	10~45°C (50~113°F) WY - series		
	Heat source unit condition HEX unit inlet water temp. Total capacity able outdoor		10~45°C (50~113°F) WR2 - series	10~45°C (50~113°F) WR2 - series		
		-	10~35°C (50~95°F)	10~35°C (50~95°F)		
	Total capacity		50~100% of outdoor unit/heat source unit capacity	50~100% of outdoor unit/heat source unit capacity		
Connectable outdoor	Total capacity		Y (Standard, Hi-COP), Replace Y,	Y (Standard, Hi-COP), Replace Y,		
unit/heat source unit	Model / Quantity		S, HP(ZUBADAN) series, R2 (Standard, Hi-COP),	HP(ZUBADAN) series, R2 (Standard, Hi-COP),		
			Replace R2, WY series, WR2 series	Replace R2, WY series, WR2 series		
Sound pressure level (mea		dB <a>	29	29		
Diameter of refrigerant	Liquid	mm(in.)	ø9.52 (ø3/8") Brazed	ø9.52 (ø3/8") Brazed		
pipe	Gas	mm(in.)	ø15.88 (ø5/8") Brazed	ø19.05 (ø3/4") Brazed		
Diameter of water	Inlet	mm(in.)	PT3/4 Screw	PT 1 Screw		
pipe	Outlet	mm(in.)	PT3/4 Screw	PT 1 Screw		
Field drain pipe size		mm(in.)	ø32 (1-1/4")	ø32 (1-1/4")		
External finish			NO	NO		
External dimension H	× W × D	mm	800 (785 without legs) × 450 × 300	800 (785 without legs) × 450 × 300		
External dimension II		in.	31-1/2" (30-15/16" without legs) × 17-3/4" × 11-13/16"	31-1/2" (30-15/16" without legs) × 17-3/4" × 11-13/16"		
Net weight		kg(lbs)	35 (78)	38 (84)		
Circulating water	Operation Volume Range	m³/h	1.1~2.15	1.8~4.30		
Design pressure	R410A	MPa	4.15	4.15		
200.gii prooduio	Water	MPa	1.00	1.00		
Drawing	External		KD94R274	KD94R274		
Diawing	Wiring		WKE94C626	WKE94C626		
	Document		Installation Manual, Instruction Book	Installation Manual, Instruction Book		
Standard attachment			Strainer Heat insulation material	Strainer, Connecter, Heat insulation material,		
otanuaru attaunment	Accessory		Strainer, Heat insulation material,	2 × Connector sets, Expansion joint,		
			2 × Connector sets, Flow switch × 1 set, wire	Flow switch × 1 set, wire		
Optional parts			Solenoid valve kit: PAC-SV01PW-E	Solenoid valve kit: PAC-SV01PW-E		
•			Details on foundation work, duct work, insula	ation work, electrical wiring, power source		
Remark			switch, and other items shall be referred to t	he Installation Manual.		
			,			

Notes:

*1 Nominal heating conditions <S/Y/HP(ZUBADAN)/R2-series> Outdoor Temp. : 7°CDB/6°CWB (45°FDB / 43°FWB) Pipe length : 7.5 m (24-9/16 ft) Level difference : 0m (0ft)

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

*2 Nominal cooling conditions

2 Normal cooling contactions

2Y/HP(ZUBADAN)/R2-series>

Outdoor Temp.: 35°CB (95°FDB)

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

Level difference: 0m (0ft)

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

<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)

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

 * The unit is not designed for outside installations.

 * Please don't use the steel material for the water piping material.

- * Please always make water circulate or add the brine to the circulation water when the ambient temperature becomes 0°C (32°F) or less.

 * Please always make water circulate or pull out the circulation water completely when not using it.

 * Please do not use groundwater and well water.

 * Install the unit in an environment where the wet bulb Temp. will not exceed 32°C (90°F).

- * The water circuit must use the closed circuit.

 * Please do not use it as a drinking water.

Controller **Remote Controller**

PAR-W21MAA



► Specifications

	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		
ater 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.		
Schedule operation	ON / OFF / Water temperature setting can be done up to 6 times one day in the week.	0	0
Scriedule operation	(in increments of a minute)		
Error display	When an error is currently occurring on a unit, the afflicted unit and the error code are displayed.	×	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
Test ruit	* 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

Note:

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

Applicable System

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

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

PAC-SV01PW-E

Item			Description					
Power source			1-phase 220-230	0-240V 50 / 60Hz				
Diameter of	Applicable models		PWFY-P100VM-E1-AU	PWFY-P200VM-E1-AU				
refrigerant pipe	Liquid	mm (in.)	ø15.88	ø19.05				
reingerant pipe	Gas mm (in.)		ø9.52	ø9.52				
External dimension F	I ~ W ~ D	mm	462 × 33	20 × 207				
LAterrial dimension i	1 ^ W ^ D	in.	18-1/4" × 12-	5/8" × 8-3/16"				
Net weight		kg (lbs)	8.5	(19)				
Drawing	External		WKD9	4T532				
Standard attachment	Document		Installation Manual					
Standard attachment	Accessory		Specification label, F	Refrigerant conn.pipe				

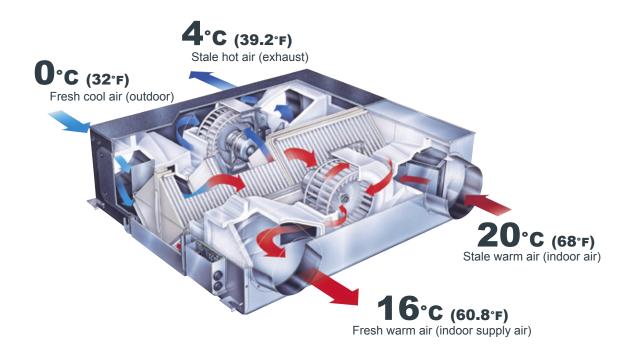


RX5 SERIES



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

 LGH-25RX5
 [250m³/h Single phase 220-240V 50Hz]
 LGH-100RX5
 [1000m³/h Single phase 220-240V 50Hz]

 LGH-35RX5
 [350m³/h Single phase 220-240V 50Hz]
 LGH-150RX5
 [1500m³/h Single phase 220-240V 50Hz]

 LGH-65RX5
 [650m³/h Single phase 220-240V 50Hz]
 LGH-200RX5
 [2000m³/h Single phase 220-240V 50Hz]

Heat-Exchange Efficiency Obtainable Only with Lossnay.

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

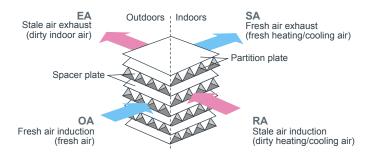
The superior heat-transfer and moisture permeability of the special paper assure highly effective total heat exchange (temperature and humidity) when inducted and exhausted air supplies cross in the Lossnay core.

LOSSNAY Technology

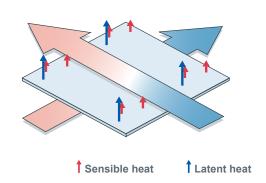
- Two paths ventilation
 - LOSSNAY simultaneously intakes Fresh Air and exhausts Dirty Air.
- Total energy recover

LOSSNAY returns BOTH sensible heat and latent heat.

A. Two paths ventilation

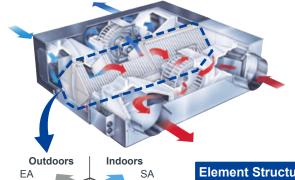


B. Total Energy transfer



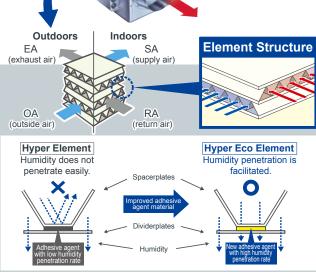
Hyper Eco Core

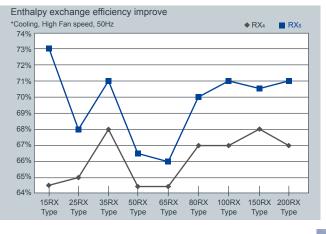
Better energy conservation by improved total heat exchange efficiency.



Introducing the new Hyper Eco Element

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



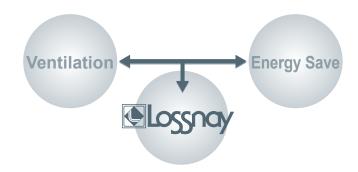




Why LOSSNAY is necessary.

- 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)

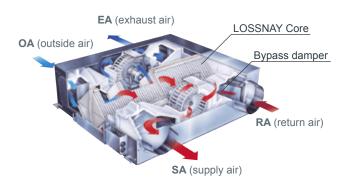
Energy recovery by LOSSNAY Core

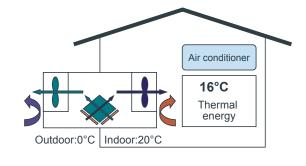
Free cooling by bypass damper

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

UNIT STRUCTURE

Energy Recovery Image





How much recovery?

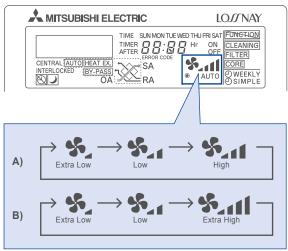
OA temp. : 0°C ->

SA temp. : 16°C (Indoor 20°C)

Extra Low Mode

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

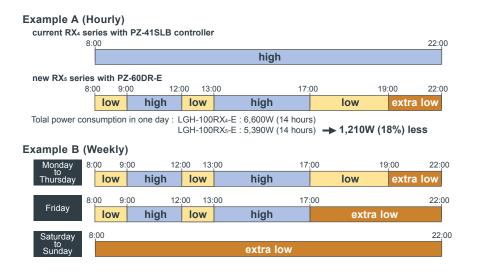
In addition to the conventional Extra High, High, and Low modes, an Extra Low mode is added to provide a more dynamic range of air volume settings and versatility in a variety of installation environments, yielding much better energy conservation. Using a simplified timer function, it switches to Extra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



- * The Extra High and High ventilation modes are selectable by the initial setting
- * Extra-Low not equipped LGH-150RX5 and 200RX5.
- * The ventilation mode is actually selected in three levels, and the remote controller also displays these three levels.

Energy Saving by WEEKLY timer

Air volume level can be set hourly (max 8 times) and weekly. You can pre-set air volume according to the predictable requirement so that LOSSNAY can automatically operate at only necessary air-speed at the specified time period, which saves power consumption while maintaining the indoor air quality. Besides, once the weekly timer has been set, no switching on-off is required.



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.

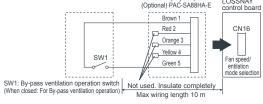
Automatic ventilation setting

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 Exhaust air Fresh air Return air Supply air Cossnay core Remote display adaptor (Optional) PAC-SA88HA-E Control devices (example) Return air Cossnay control board CN16



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.

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

- * When the outdoor air tempereture drops lower than 8°C it changes to the heat exchange ventilation. (Display of the remote controller does not change.)
- * In the case of "By-pass" ventilation, the supply air temperature slightly rises more than the outside air temperature because of the heat effect around the ducts or the unit motors.

New Remote Controller PZ-60DR-E

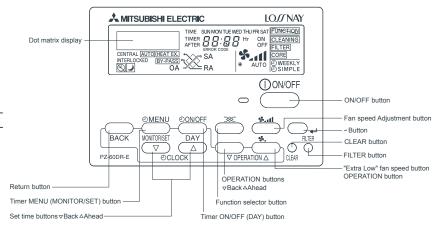
A new remote controller for the RX5 series is now available. In addition to boosting the energy conservation performance of the main unit, the remote controller features a variety of new functions which also pursue additional energy conservation.

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.





Model line up

■ Specification

LGH-15~100RX5-E

LGH-15RX5-E

Model		LGH-15RX₅-E								
Frequency / Power source					50Hz / Single p	hase 220-240V				
Ventilation mode		LOSSNAY ventilation By-pass ventilation								
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low	
Current (A)		0.44-0.46	0.37-0.38	0.25-0.25	0.14-0.15	0.45-0.46	0.37-0.38	0.25-0.26	0.14-0.15	
Power consumption (W)		96-110	80-90	53-59	30-35	97-110	97-110 81-91 54-61 30-35			
Air volume	(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	_	_	_	_	
Enthalpy exchange enficiency (78)	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)					2	20				
Starting current		Under 0.8 A Less								

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

LGH-25RX5-E

Model		LGH-25RXs-E 50Hz / Single phase 220-240V								
Frequency / Power source										
Ventilation mode			LOSSNAY	ventilation	ation By-pass ventilation					
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low	
Current (A)		0.52-0.55	0.47-0.48	0.26-0.27	0.17-0.18	0.53-0.55	0.53-0.55			
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	
= 1	(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 entitlency (%)	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)					2	20				
Starting current	ng 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

LOTT-00TOX5-L										
Model		LGH-35RX₅-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			0.28-0.3	
Power consumption (W)		195-212	160-169	105-116	58-69	197-217 164-173 105-116 58-69			58-69	
Air volume	(m³/h)	350	350	210	115	350	350	210	115	
	(L/s)	97	97	58	32	97	97	58	32	
E 4	(mmH ₂ O)	15.8-16.3	7.6-8.2	2.5-3.1	0.9	15.8-16.3	7.6-8.2	2.5-3.1	0.9	
External static pressure	(Pa)	155-160	75-80	25-30	9	155-160	75-80	25-30	9	
Temperature exchange efficiency	(%)	80.0	80.0	85.0	88.0	_	_	_	_	
Enthalpy exchange efficiency (%)	Heating	71.5	71.5	76.5	81.5	_	_	_	_	
Enthalpy exchange entitlency (%)	Cooling	71.0	71.0	75.5	81.0	_	_	_	_	
Noise (dB) (Measured at 1.5m und of panel in an anechoe		32-32	28.5-29.5	21.5-23	18	32.5-32.5	29.5-30.5	21.5-24	18	
Weight (kg)					29					
Starting current		Under 2.4 A Less								

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



LGH-15~100RX5-E

LGH-50RX₅-E

Model					LGH-5	i0RX₅-E					
Frequency / Power source		50Hz / Single phase 220-240V									
Ventilation mode			LOSSNAY ventilation By-pass ventilation								
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low		
Current (A)		1.2-1.25	1.0-1.0	0.85-0.85	0.4-0.4	1.25-1.25	1.0-1.0	0.85-0.85	0.4-0.4		
Power consumption (W)		255-286	207-228	175-190	80-95	260-290	210-230	180-195	80-95		
Air volume	(m³/h)	500	500	390	180	500	500	390	180		
	(L/s)	139	139	108	50	139	139	108	50		
Established and a second	(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	_	_	_	_		
Entitalpy exchange efficiency (%)	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-65RXs-E										
Frequency / Power source		50Hz / Single phase 220-240V								
Ventilation mode		LOSSNAY ventilation By-pass ventilation								
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low	
Current (A)		1.7-1.8	1.5-1.5	1.2-1.2	0.6-0.6	1.7-1.8	1.7-1.8 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	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	
Fortament atatic management	(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	_	_	_	_	
Entitalpy exchange efficiency (%)	Cooling	66.0	66.0	68.5	77.0	_	_	_	_	
Noise (dB) (Measured at 1.5m under of panel in an anechoe		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-80RXs-E								
Frequency / Power source					50Hz / Single p	hase 220-240V				
Ventilation mode		LOSSNAY ventilation By-pass ventilation								
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low	
Current (A)		1.75-1.75	1.6-1.6	1.45-1.45	0.60-0.65	1.75-1.75	1.6-1.6	1.45-1.45	0.60-0.65	
Power consumption (W)		380-415	345-370	315-340	125-145	380-415	345-370	315-340	120-145	
Air volume	(m³/h)	800	800	700	355	800	800	700	355	
	(L/s)	222	222	194	99	222	222	194	99	
Fortennel etetic massesses	(mmH ₂ O)	14.8-15.3	10.7-12.2	8.2-9.7	2	14.8-15.3	10.7-12.2	8.2-9.7	2	
External static pressure	(Pa)	145-150	105-120	80-95	20	145-150	105-120	80-95	20	
Temperature exchange efficiency (%)	79.0	79.0	80.5	87.5	_	_	_	_	
Enthalpy exchange efficiency (%)	Heating	71.0	71.0	72.5	79.5	_	_	_	_	
Enthalpy exchange 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-15~100RX5-E

LGH-150/200RX5-E

LGH-100RX5-E

Model					LGH-10	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					
Ainmainma	(m³/h)	1000	1000	755	415	1000	1000	755	415					
Air volume	(L/s)	278	278	210	115	278	278	210	115					
External static pressure	(mmH ₂ O)	16.3-17.3	10.2-11.2	5.6-6.1	1.8	16.3-17.3	10.2-11.2	5.6-6.1	1.8					
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 emclency (%)	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)				5	59									
Starting current					Under 4	.6 A Less								

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

LGH-150RX5-E

Model				LGH-1	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		
Air volume	(L/s)	417	417	361	417	417	361		
External static pressure	(mmH ₂ O)	16.3-17.8	13.3-13.8	9.7-10.2	16.3-17.8	13.3-13.8	9.7-10.2		
External static pressure	(Pa)	160-175	130-135	95-100	160-175	130-135	95-100		
Temperature exchange efficiency	(%)	80.0	80.0	81.0	_	_	_		
Enthalpy exchange efficiency (%)	Heating	72.0	72.0	72.5	_	_	_		
Entrialpy exchange emclency (%)	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)

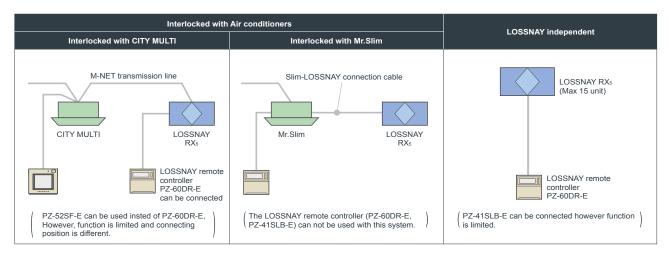
LGH-200RX5-E

Model				LGH-2	00RX₅-E						
Frequency / Power source				50Hz / Single phase 220-240V							
Ventilation mode			LOSSNAY ventilation			By-pass ventilation					
Fan speed		Extra High	High	Low	Extra High	High	Low				
Current (A)		4.8-4.8	4.2-4.2	3.4-3.4	4.8-4.8	4.2-4.2	3.4-3.4				
Power consumption (W)		1035-1100	910-980	715-785	1040-1110	915-980	720-785				
Air volume	(m³/h)	2000	2000	1580	2000	2000	1580				
Air volume	(L/s)	556	556	439	556	556	439				
External static pressure	(mmH ₂ O)	16.3-16.8	10.2-10.7	6.1-6.6	16.3-16.8	10.2-10.7	6.1-6.6				
External static pressure	(Pa)	160-165	100-105	60-65	160-165	100-105	60-65				
Temperature exchange efficiency ([%)	80.0	80.0	83.0	_	_	_				
Enthalpy exchange efficiency (%)	Heating	72.5	72.5	73.5	_	_	_				
Enthalpy exchange emclency (78)	Cooling	71.0	71.0	72.0	_	_	_				
Noise (dB) (Measured at 1.5m under the center of panel in an anechoeic chamber)		39.5-40	37-38	32.5-34	40.5-41	38-39	33.5-35				
Weight (kg)				1	18						
Starting current				Under 1	1.9A Less						

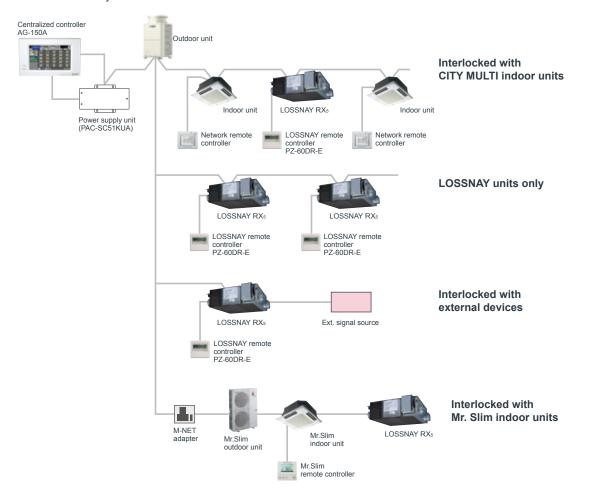
^{*}The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 20 dB greater than the indicated value. (at High Fan speed)

Control

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



■ Centralized Controller System



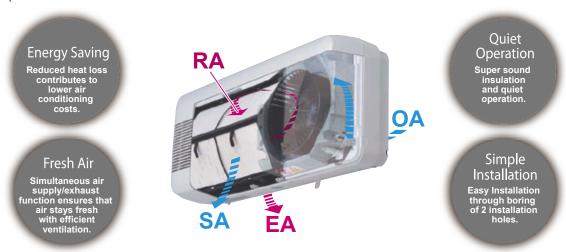


VL-100U-E

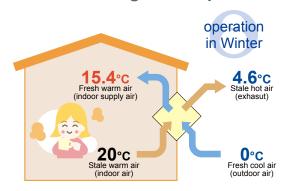


Heat Recovery Ventilators for Residential Use

Time Spent in Comfort with a Breath of Fresh Air



Total-Heat-Exchange Concept



·Heat-exchange calculating equation

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

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

•Heat-exchange calculating equation

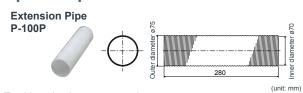
 $\begin{array}{l} \mbox{Indoor supply-air temperature (°C)} = \begin{array}{l} \mbox{Outdoor temperature (°C)} - \left\{ \begin{array}{l} \mbox{Outdoor temperature (°C)} - \mbox{Indoor temperature (°C)} \end{array} \right\} x \\ \mbox{ temperature (°C)} \end{array} x \\ \mbox{ temperature (°C)} \end{array} x \\ \mbox{ temperature (°C)} \\ \mbox{ representation of temperature (°C)} \end{array} x \\ \mbox{ temperature (°C)} \\ \mbox{ temperature (°C)} \\ \mbox{ representation of temperature (°C)} \\ \mbox{ representation of temperature (°C)} \\ \mbox{ temperature (°C)} \\ \mbox{ representation of temperatur$ 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

	Power line frequency (Hz)	Notch	Air volume (m³/h)	Power Consumption (W)	Temp.exchange efficiency (%)	Noise (dB)	Weight (kg)
220-240	F0	HI	105	26	70	39	
220-240	50	LO	65	23	77	29.5	0.5
000	00	HI	90	26	73	37	6.5
220	60	LO	50	21	80	26	

Optional parts

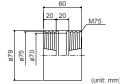


•Total length when connected to the pipe extension coupling is 300mm.

Extension Pipe Coupling P-100PJ







Screw-in method

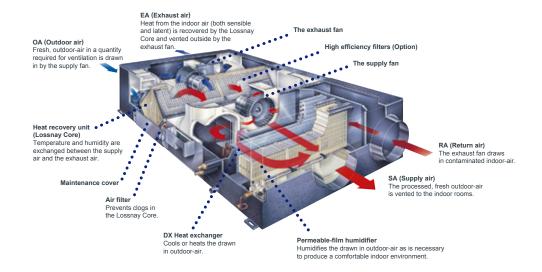
OA Processing Units

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.



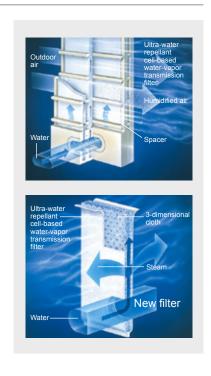
New Permeable Film Humidifier (RDH3 model)

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.



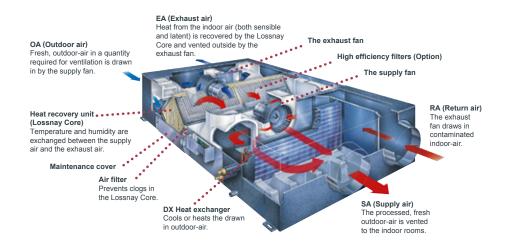
RD3 Series

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.

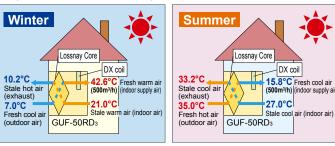


The Air Conditioning Function

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.

Specification

Model	0115 50	GUF-50RDH3 *3				0.15				
		GUF-50	RDH3 *3	GUF-10	0RDH3 *3	GUF-	50RD3	GUF-1	I00RD3	
Power source				1-phase 2	220-240V 50H	lz, 1-phase 2	220V 60Hz			
Cooling capacity *1	kW	5.46	<1.83>	11.17	<3.85>	5.46	<1.83>	11.17	<3.85>	
Figure in < > is the recovery *1	kcal / h	4,700	<1,600>	9,600	<3,300>	4,700	<1,600>	9,600	<3,300>	
capacity by LOSSNAY core. *1	BTU / h	18,600	<6,200>	38,100	<13,100>	18,600	<6,200>	38,100	<13,100>	
Power input	kW	235-265		480-505		235-265		480-505		
Current input	Α	1.	15	2.20		1.15		2.20		
Heating capacity *2	kW	6.18	<2.01>	12.50	<4.20>	6.18	<2.01>	12.50	<4.20>	
Figure in < > is the recovery *2	kcal / h	5,300	<1,700>	10,800	<3,600>	5,300	<1,700>	10,800	<3,600>	
capacity by LOSSNAY core. *2	BTU / h	21,100	<6,900>	42,700	<14,300>	21,100	<6,900>	42,700	<14,300>	
Power input	kW	235	-265	480	-505	235	-265	480	-505	
Current input	Α	1.	15	2.	.20	1.	15	2.	20	
Capacity equivalent to indoor unit		P:	32	P	63	Р	32	Р	63	
Humidifying capacity	kg / h	2	.7	5	5.4		-		-	
	lbs / h	6	.0	12	2.0		-		-	
Humidifier			Permeable fi	lm humidifie	r			-		
External finish				Galva	nized, with gr	ey insulatior	sheet			
External dimension H x W x D	mm	317 x 1,0	16 x 1,288	398 x 1,2	31 x 1,580	317 x 1,0	16 x 1,288	398 x 1,2	31 x 1,580	
	in.	12-1/2 x 4	0 x 50-3/4	15-11/16 x 4	8-1/2 x 62-1/4	12-1/2 x 4	10 x 50-3/4	15-11/16 x 4	8-1/2 x 62-1/4	
Net weight	kg (lbs)	57 (126)	98 ((217)	54 (120)	92 (203)	
Heat LOSSNAY core			Partiti	on, Cross-flo	ow structure,	Special pres	served paper	-plate.		
exchanger Refrigerant coil				Cross f	in (Aluminum	fin and copp	per tube)			
FAN Type x Quantity				SA: (Centrifugal fa	n (Sirocco fa	n) x 1			
		EA: Centrifugal fan (Sirocco fan) x 1								
External	Pa	12	25	1	35	140		140		
static press.	mmH₂O	12	2.7	1:	3.8	14	4.3	14	4.3	
Motor type		То	tally enclose	d capacitor p	permanent sp	lit-phase ind	uction motor	4 poles, 2u	nits	
Motor output	kW		-		-		-		-	
Driving mechanism					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 level (Low-High)	dB <a>	22.5	-34.5	20	3-39	22.5	-34.5	20	-39	
(measured in anechoic room)	UD \A>	33.5	-34.3	30	-39	33.5	-34.5	30	-39	
Insulation material					Polyest	er sheet				
Air filter Supplying air		Non-woven f	abrics filter (Gra	avitational met	hod 82%) & Opt	tional part: High	h efficiency filte	r (Colorimetric	method 65%)	
Exhausting air			1	Non-woven f	abrics filter (C	Gravitational	method 82%)		
Protection device					Fu	se				
Refrigerant control device					LE	V				
Diameter of Liquid	mm (in.)	ø6.35 (ø	1/4) Flare	ø9.52 (ø	3/8) Flare	ø6.35 (ø	1/4) Flare	ø9.52 (ø	3/8) Flare	
refrigerant pipe Gas	mm (in.)	ø12.7 (ø1	I/2) Flare	ø15.88 (ø	95/8) Flare	ø12.7 (ø	1/2) Flare	ø15.88 (ø	5/8) Flare	
Diameter of drain pipe	mm (in.)				VP	25				

Notes:

- *1 Cooling : Indoor 27°CDB/19°CWB, Outdoor 35°CDB/24°CWB
- *2 Heating : Indoor 20°CDB/13.8°CWB, Outdoor 7°CDB/16°CWB
- *3 Available for limited countries. Please contact your local distributor for further information.



Remote Controller

- Individual Remote Controller
- Centralized Remote Controller

The Importance of Control

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

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

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

A Degree of Difference

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

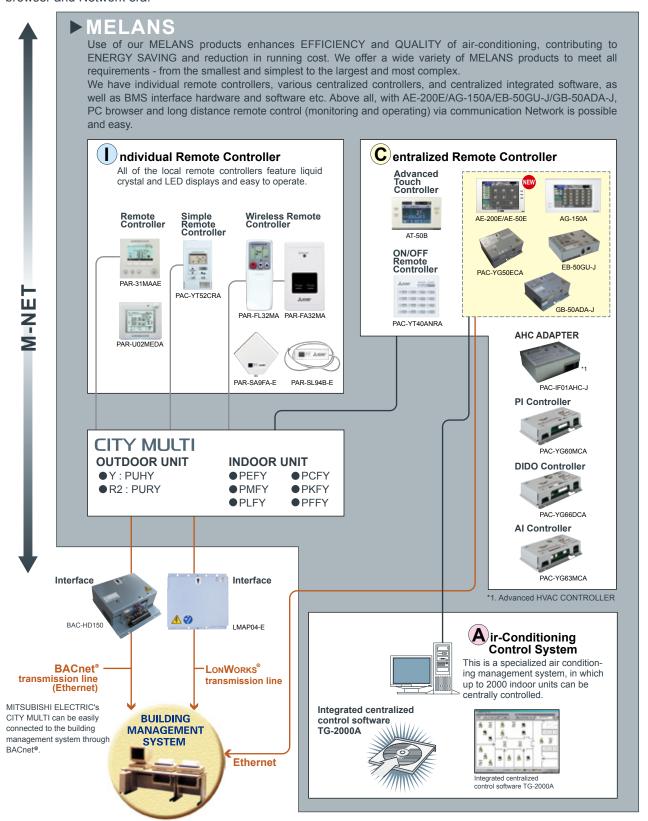
The Simpler, The Better

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



System Controller

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



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



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

Local remote controller *10					System controller *10														
Model	PAR-31MAAE	PAR-U02MEDA	PAC-YT52CRA	PAR-FL32MA	PAC- YT40ANRA	AT-50B	AE-:	200E -50E		200E + -50E	AG-	150A		150A + G50ECA	EB-5	0GU-J	GB-5	0ADA-J	TG-2000A
Controllable Groups / Indoors (Group / Indoor)	1 / 16	1 / 16	1 / 16	1 / 16	16 / 50	50 / 50		/ 50 Browser*4		/ 200 Browser*		/ 50 Browser*4	150			/ 50 Browser*4		/ 50	2000 / 2000
							AE-200E	Browser 4	AE-200E	Browser	* AG-150A	Browser 4	AG-150A	Browser 4	EB-50GU-	J Browser *	GB-SUADA	J Browser 4	
■Operating						I @													
ON / OFF	0	0	0	0	0	0	_				O I		_	_	<u> </u>	◎ ■		O	© I
Mode (cool / heat / dry / fan)	0	0	0	0	N	0	◎ ■				O I			O I	N	◎ ■	N	◎ ■	© ■
Temperature-set	0	0	0	0	N	0	I			_	_	 	_	□	N	 	N	I	O I
Dual set point *11	0	0	0	N	O*12	0	◎ ■		_	_	_	N	N	N	N	 	N	N	© ■
Local Permit / Prohibit	N	N	N	N	N	0	◎ ■		O I		_	O I	_	O I	N	◎ ■	N	◎ ■	◎ ■
Fan speed	0	0	0	0	N	0	O I	_	_			O I			N	O I	N	O I	□ □
Air-flow direction	0	0	0	0	N	0	I	◎ ■			◎ ■			O I	N	◎ ■	N		© ■
■Status monitoring																			
ON / OFF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	_	0	A	0	○ ■
Mode (cool / heat / dry / fan)	0	0	0	0	Ν	0	0		0		0	0	0	0	N	0	N	0	0
Temperature-set	0	0	0	0	N	0	0	0	0		0	0	0	0	Ν	0	N	0	0
Local Permit / Prohibit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Ν	0	N	0	0
Fan speed	0	0	0	0	N	0	0	0	0	0	0	0	0	0	Ν	0	N	0	0
Air-flow direction	0	0	0	0	N	0	0	0	0	0	0	0	0	0	N	0	N	0	0
Indoor temperature	0	0	0	N	N	0	0	0	0	0	0	0	0	0	N	0	N	0	0
Filter sign	0	0	N	N	N	0	0	0	0	0	0	0	0	0	N	0	N	0	0
Error flashing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	_	0	A	0	0
Error code	0	0	0	N	0	0	Ō	0	0	0	0	0	0	Ō	N	0	N	0	0
Operation hour	Ň	N	N	N	Ň	Ň	N	N	N	N	N	N	N	N	N	N	N	N	•
■Scheduling																			
One-day	0	1 0	N	l n	l N	10		@ ■		 					Ν		lΝ		•
Times of ON / OFF per day	1	1	N	1	N	16	24	24	24	24	24	24	24	24	N	24	N	24	24
Weekly	0	0	N	N	N	0	© ■					0(0)	0(0)	0(•)	N	0(0)	N	0(0)	O(•)
Times of ON / OFF per week	8 x 7	8 x 7	N	N	N	16 x 7					24 x 7			24 x 7	N	24 x 7	N	24 x 7	24 x 7
Annual	N	N	N	N	N	N	© ■								N	<u></u>	N	•	<u> </u>
Optimized start-up	N	N	N	N	N	N	0		0		0	0	0	0	N	0	N	0	0
Auto-off timer	0	0	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Min. timer setting unit (minute)	5	5	N	10	N	5	1	1	1	1	1	1	1	1	N	1	N	1	1
■Recording	<u> </u>	J J	IV	10	14	<u> </u>	'	<u> </u>	1	<u> </u>	1	'	'		IN	<u> </u>	14	1 '	'
Error record	0	l N	l N	l n	N	10	10	10	10	10	10	10	10	0	N	10	ΙN	101	0
Daily / monthly report	N	N	N	N	N	N	N	N	l N	N	N	N	N	N	N	N	N	N	<u> </u>
Electricity charge	N N	N	N	N	N	N	N	N	N	N		N	N			N	N	N	•
								_		_	N			N	N				
Energy management data ■Other	N	N	N	N	N	N	N	•	N	•	N	N	N	N	N	•	N	N	N
	_					1	L	1	Lau	Like	Like	Lai	Lai	1		Lau	1	1 6 1	N.
Temp-set limitation by Local R / C	0	0	0	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Temp-set limitation by System controller *4	0 *6	0	O *6	N	N	O*6	N	O*2*6		O*2*6		O*2*6		O*2*6	N	O*2*6	N	O*2*6	◎ *6
Operation-lock	0	0	0	N	N	0	N	N	N	N	N	N	N	N	N	N	N	N	N
Night setback	0	0	N	N	N	0	0	O*2	_	O*2		O*2		O*2	N	O*2	N	O*2	0
Sliding temperature control	N	N	N	N	N	N	0	O*2	0	O*2	0	O*2	0	O*2	N	O*2	N	O*2	0
■Management (Group / In					_			*2		*2		*2		*2		*2		*2	
Ventilation interlock	N/O	N/O	N/O	N	0	0	0	0/0	0	0/0	0	0/0		0/0	N	0/0		0/0	0/0
Group setting	O *1	0	O *1	N	0	0		10-		10-		O*2	_	O*2	N	O*2	N	O*2	0
Block setting	N	N	N	N	N	N	0	O*2		O*2		O*2		O*2	N	O*2	N	O*2	0
Revision of electricity charge	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
■Operating on LOSSNAY interlocked (Group / Interlocked)																			
ON / OFF	N/O	N/O	N/O	N/O*8	⊘ / ⊙ *3	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	A / A	0/0	▲/▲	0/0	0/0
Fan speed	N/O	N/O	N	N	N	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	N/N	0/0	N/N	0/0	©/©
Ventilation mode	N/N	N	N	N	N	@/ N	@/N	@/ N	0/N	1 @ / N	0/ N	@/ N	@/N	@/N	N/N	0/N	N/N	0/ N	O/ N
■Status monitoring on LOS									,										
ON / OFF	N/O	l N/O	N/O	l N	N	0/0	0/0	0/0	0/0	0/0	0/0	@/@	0/0	0/0	A / A	0/0	A / A	0/0	@/@
Fan speed	N/O	N/O	N N	N	N													0/0	0/0
Ventilation mode	N N	N N	N	N	N													0/ N	0/ N
©: Fach group / Batched :			ok (for CITV																_

Recording

LOSSNAY remote controller PZ-52SF					
■Controllable LOSSNAY Groups	1				
■Controllable LOSSNAY unit	16				
■Operating					
ON/OFF	0_				
Mode (automatic ventilation/vent-heat interchange/normal ventilation)	0				
Local Permit-Prohibit	N				
Fan speed	0				
Air flow direction	N				
■Scheduling	N				

Management Group setting	0
Block setting	N
■Status monitoring	
ON/OFF	0
Mode (automatic ventilation/vent-heat interchange/normal ventilation)	0
Local Permit-Prohibit	0
Fan speed	0
Air flow direction	N
Filter sign	0
Error flashing	0
Error code	0

Air conditioner control system interface LMAP04-E:LonWorks® Interface Controls up to 50 Groups/ 50 units, for details, refer to its description.

BAC-HD150: BACnet® Interface Controls up to 50 Groups/ 50 units. up to 150 Groups/ 150 units with three expansion controllers for details, refer to its description.

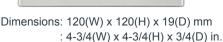
O : Each group, N: Not Available

Remote Controller

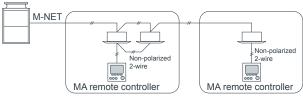
Individual __ Remote Controller

Wired MA remote controller PAR-31MAAE



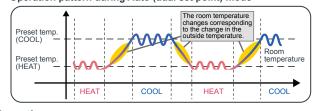


Example of system configuration



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

Operation pattern during Auto (dual set point) mode



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

Dual set point

Dual

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.

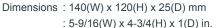
Language selection

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

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



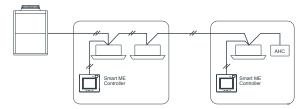




- It can control up to sixteen indoor units and one AHC.
- Smart ME Controller features such basic functions as operations and monitoring of air conditioning units and schedule-control functions and is equipped with four built-in sensors (temperature, humidity, occupancy, brightness), which enable an integrated control of the system, including the humidifiers and ventilation units connected to the system via AHC, to help create a comfortable environment.

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

Example of system configuration



	○:Each gro	oup ×:No	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 points) [Cool] Same as the set temp. range for Cool mode. [Heat] Same as the set temp. range for Heat mode. * The settable temperature ranges vary depending on the indoor unit model.	0	0
Fan speed setting	Changes fan speed. * Available fan speeds vary depending on the model.	0	0
Air flow direction setting	Changes airflow direction. * Available airflow directions vary depending on the model.	0	0
Allows/disallows local operation	The following operation can be prohibited by making certain settings on the centralized controller: ON/OFF, operation mode setting, temperature setting, fan speed, air direction, and filter sign reset. * While an operation is prohibited, the operation icon lights up.	×	0
Error information	When an error occurs, an error code and the unit address appear. Contact number can be set to appear when an error occurs. (The information above needs to be entered on the Service menu.)	_	0
Schedule (Weekly timer)	Weekly ON/OFF times, operation mode, and set temperatures can be set. • Time can be set in 5-minute increments. Up to 8 schedule patterns can be set per day of the week. * Not valid when the ON/OFF timer is set.	0	0
Timer	ON/OFF timer Turns ON and OFF daily at a set time. • Time can be set in 5-minute increments. • It is also possible to set the ON time only or the OFF time only. Auto-OFF timer Turns off the unit after a certain period of operation. • Operation time can be set to a value from 30 to 240 in 10-minute increments.	0	0
Energy-save control during vacancy	When vacancy is detected by the occupancy sensor, the energy-save control assist function is activated. Four control types are available for selection: ON/OFF/Set temperature/Fan speed/Thermo-off. The brightness sensor can be used in conjunction with the occupancy sensor to detect the occupancy/vacancy status more accurately.	0	0

Individual Remote Controller

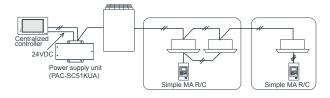
Simple remote controller PAC-YT52CRA (MA)





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 July 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 $\sqrt[\infty]{u}$ button is pressed.
- The only wiring required is cross-over wiring based on two-wire signal lines.
- $\bullet \ \ Room \ temperature \ sensors \ are \ built-in.$
- · 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.

	: 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.	x	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

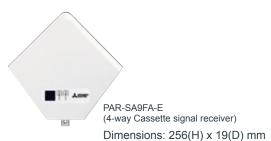


Wireless remote controller PAR-FL32MA / PAR-FA32MA / PAR-SA9FA



PAR-FL32MA

Dimensions: $58(W) \times 159(H) \times 19(D) \text{ mm}$: $2-5/16(W) \times 6-5/16(H) \times 3/4(D) \text{ in.}$





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.

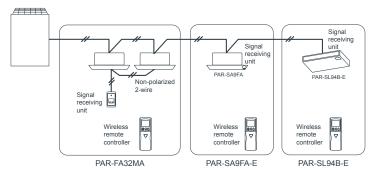


PAR-SL94B-E (Wireless remote controller kit for ceiling suspended)

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	PAR-FA32MA			
PFFY-P VLEM/VKM/VLRM/VLRMM	PAIN-I ASZIVIA	PAR-FI 32MA		
PEFY-P VMS1(L)				
PEFY-VMA(L)		I / d C I LOZIVI/ C		
PCFY-P VKM	PAR-FA32MA			
	PAR-SL94B-E			
PLFY-P VBM-E	PAR-SA9FA-E			
PKFY-P VBM-E	Built-in			
PKFY-P VHM/VKM	Built-IN			

	○: Each group	∴ 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.



Centralized Remote Controller

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

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.

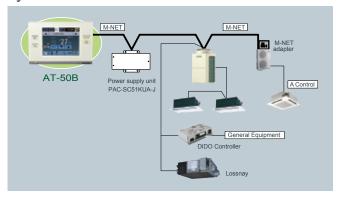


- Temperature will be displayed either in Centigrade in 0.5or 1-degree increments, or in Fahrenheit, depending on the indoor unit model and the display mode setting on the remote controller.
- Dual set point

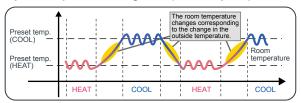
When the operation mode is set to the Auto (dual set point) mode, two preset temperatures (one each for cooling and heating) can be set. Depending on the room temperature, indoor unit will automatically operate in either the Cool or Heat mode and keep the room temperature within the preset range.

*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.











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.	0	0
Operation lock	The operation lock can be set to the input operation of AT-50B. Each button can be set. (Function Button 1, Function Button 2, Collective ON/OFF, Touch Panel) Each function can be set. (Operation mode, Setting temperature, Fan speed, Menu button) The password for the lock release can be set.	0	0
Error display	When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed. * When an error occurs, the "ON/OFF" LED flashes. The operation monitor screen show abnormal icon over the unit. The error monitor screen shows the abnormal unit address and error code. The error log monitor screen shows the time and date, the abnormal unit address, error code and source of detection.	×	
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.



Centralized Remote Controller

NEW

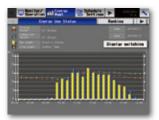
Point

Centralized controller AE-200E/AE-50E



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

Control Screen for Power Consumption



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

Energy consumption of two different units, groups and blocks can be compared.

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

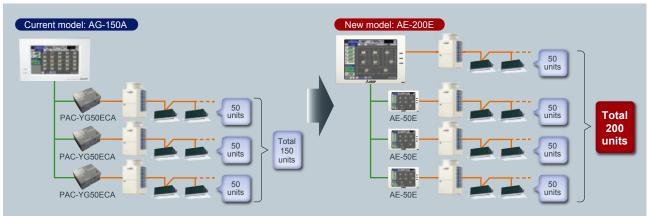


Energy consumptions of air-conditioning equipment are ranked and displayed by individual air-conditioning equipment and by area, thus visualizing high-load components. Also, comparison of energy consumption with target electric energy is possible.

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

- Energy consumption of air-conditioning equipment by individual area is displayed using graphs for easier viewing.
- Enables comparisons with the previous year's power consumption as well as with the target electric power, thus allowing users to check the operating state at a glance.
- Floor layout is displayed on the 10.4-inch LCD touch panel, facilitating easier operation of air-conditioning equipment.
- In an easy and flexible manner, an optimum system can be established according to the scale of facilities.
- Implements control on up to 50 indoor units of airconditioning equipment.
- By using three units of expansion controller "AE-50E", the centralized control is implemented for the maximum of 200 indoor units.
- Connection with PC allows implementation of control on more than 200 indoor units via Web browser.¹¹
- *1. Please contact your local distributor for when the feature is supported.
- Features for operating and monitoring the hot water heat pump are also available on CAHV, PWFY, and CRHV.²
- Centralized batch control on CAHV, PWFY, and CRHV ² is possible in addition to that on air-conditioning unit.
 - *2. Please contact your local distributor for when these features are supported on CRHV.

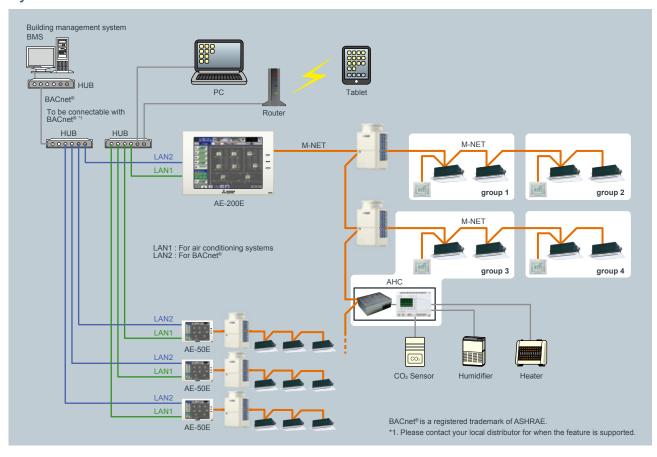
Comparison in the number of connectable units





Remote Controller

System Structure



	☐ : Each unit O : Each group ● : Each block Δ: Each floor ●	. Collective X:	INUL AVAIIADIE
Item	Description	Operations	Display
Controllable number of unit	Up to 50 units/50 groups		
ON/OFF	ON and OFF operation for the air conditioning units and general equipment. (To operate general equipment, PAC-YG66DCA is required.)	00△●	00
Operation mode	Switches between several operation modes depending on the air conditioning unit. Air conditioning unit: Cool/Dry/Auto(")/Fan/Heat LOSSNAY unit: Heat Recovery/Bypass/Auto CAHV, CRHV, Air To Water (PWFY) units: Heating, Heating ECO, Hot Water, Anti-freeze, Cooling(**) * Auto mode is for CITY MULTI R2 and WR2 series only. ** Only PWFY	○◎△●	0
Temperature setting	Cool/Dry : 19°C (67°F) -25°C (95°F) [14°C (57°F) -30°C (87°F)] Heat : 4.5°C (40°F) -28°C (83°F) [17°C (63°F) -28°C (83°F)] Auto : 19°C (67°F) -28°C (83°F) [17°C (63°F) -28°C (83°F)] The range of temperature depends on the air conditioning unit. [] in case of using middle-temperature on PDFY, PEFY-VML/VMR/VMS/VMH-by setting DipSW7-1 to ON. Yet, PEFY-P-VMH-E-F is excluded.	○◎△●	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.	004	0
Air flow direction setting	Air flow direction angles, 4-angles or 5-angles Swing, Auto (Louver cannot be set)	00△●	0
Schedule operation	Weekly schedule can be set by groups based on daily operation pattern.	$\bigcirc\bigcirc\bigcirc$	0
Permit/prohibit local operation	Individually prohibits operation of each local remote controller function. (ON/OFF, Operation mode, Set temperature, Filter sign reset, Air Direction*, Fan Speed*, Timer*) * This function depends on the model.	00△●	0
Indoor unit intake temperature	Measures the intake temperature of the indoor unit only when the indoor unit is operating.	×	0
Error	When an error is currently occuring on an air conditioning unit, the afflicated unit and the error code are displayed.	×	
Test run	This operates air conditioning units in test run mode.	0040	0
Ventilation interlock	The ventilation unit (LOSSNAY) is able to automatically start its operation when operation of the interlocked indoor unit starts.	00△●	0
External input/output	By using optional external input/output adapter (PAC-YG10HA-E) you can set and monitor the following. Input: By level signal: "Batch ON/OFF", "Batch emergency stop" By pulse signal: "Batch ON/OFF", "Enable/disable local remote controller" Output: "ON/OFF", "Error/Normal"	0	0
Energy Management	Bar Graph: Indoor unit Electric Energy, FAN operation time, Thermo-ON time (TOTAL, Cooling, Heating) can be displayed hourly, daily and monthly. Line Graph: Outdoor temp., Room temp., Set temp. (Heating, Cooling) input from PAC-YG63MCA and temp. from AHC.	×	□○●
Advanced HVAC Controller (AHC)	The status of AHC can only be monitored.	×	0
New Smart ME contoroller	The status of sensor on this controller can be monitored.	×	0
Smartphone/Tablet	The specified Web browser on iOS and Android OS can monitor and operate AE-200E. *1	0	0
New Web design	The web screen design is renewed for user friendly interface. *1	00△●	0
Initial setting software	The initial setting can be configured without the connection of AE-200E. *1	×	×
Apportionment of power consumption	Apportionment of power consumption can be calculated on AE-200 without TG-2000A. *1	•	
BACnet® communication	ANSI/ASHRAE 135-2010 (ISO16484-5) is supported and approved by the BTL. *1		×

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

Centralized Remote Controller

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.

Centralized controller AG-150A

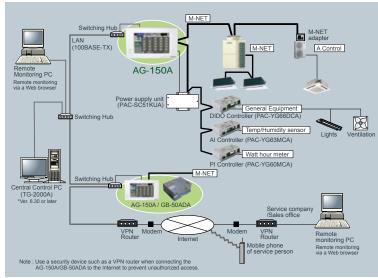


 $\begin{array}{ll} \mbox{Dimensions: } 300(W) \ x \ 185(H) \ x \ 70.3(D) \ mm \\ \mbox{: } 11\mbox{-}13\mbox{/}16(W) \ x \ 7\mbox{-}5\mbox{/}16(H) \ x \ 2\mbox{-}13\mbox{/}16(D) \ in. \end{array}$



Option : Black surface cover PAC-YG71CBL

System structure



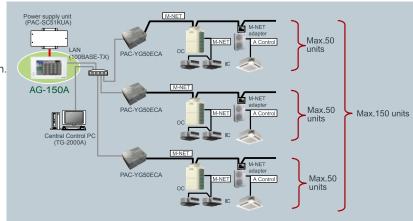
Expansion Controller PAC-YG50ECA



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

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

System structure



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

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

Design

Backlight color liquid crystal

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

Control in the night with no lights is possible.

Touch panel

9 inch wide, high-resolution

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

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

Flat back

Easy installation

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

*Optional parts are required.

USB memory compatible

Measurement/initial setting CSV data extractable with USB memory.

Can save and overwrite setting data.

Functions

Controllable units/groups

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

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

Monitoring functions

Temperature/Humidity (using AI controller)

General equipment such as lights on LCD (using DIDO

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

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

Energy saving functions

Seasonal scheduling and automatic switch over *1 Yearly scheduling on LCD *1

Scheduling fan speed and airflow direction

Optimized Start up

External temperature interlock control

Night setback control

*1 License required.

Functions

	☐ : Each unit ○ : Each group ● : Each block △ : Each floor ◎ : Collect	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.)	0000	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.	004	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
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.	004	0
Air flow direction setting	Air flow direction angles, 4-angle or 5-angle Swing, Auto (Louver cannot be set)	$\bigcirc \bigcirc \triangle \bigcirc$	0
Schedule operation	Annaul/Weekly (5 types)/today schedule can be set for each group of air conditioning units. Optimized startup setting is also available.	$\bigcirc \bigcirc \triangle \bigcirc$	0
Permit / Prohibit local operation	Individually prohibit operation of each local remote control function (Start/Stop, Change operation mode, Set temperature, Reset filter).	$\bigcirc \bigcirc \triangle \bigcirc$	0
Indoor unit intake temperature	Measures the intake temperature of the indoor unit only when the indoor unit is operating.	X	0
Error	When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed.	×	
Test run	This operates air conditioner units in test run mode.	$\bigcirc \bigcirc \triangle \bigcirc$	0
Ventilation interlock	The ventilation unit (LOSSNAY) is able to automatically start its operation when operation of the interlocked indoor unit starts.	$\bigcirc \bigcirc \triangle \bigcirc$	0
External input/output	By using optional external input/output adaptor (PAC-YG10HA) you can set and monitor the following. Input: By level signal: "Batch start/stop", "Batch emergency stop" By pulse signal: "Batch start/stop", "Enable/disable local remote controller" Output: "Start/stop", "Error/Normal"	0	0

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



Centralized Remote Controller

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

ON/OFF remote controller PAC-YT40ANRA

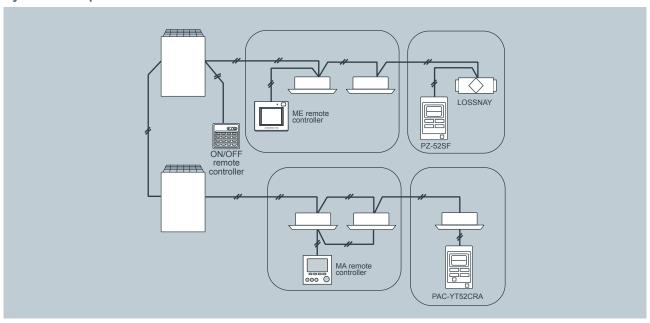




- The group setting is kept in nonvolatile memory. No need to worry about re-setting at power failure.
- No individual AC power supply is needed.
 The power can be supplied from one outdoor unit (R410A) or Power supply unit.

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

System example



FUNCTION	DESCRIPTION	PAC-YT	40ANRA
UNITS	Max No.Units	50 units/	16 groups
		OPERATIONS	DISPLAY
ON/OFF	Run and stop operation	/	/
EDDOD INDICATION	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.		
VENTILATION OPERATION	The LOSSNAY will run in interlock with the operation of indoor unit.		
	*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 *	_	/



Centralized controller EB-50GU-J



EB-50GU-J (without display)

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



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

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

Web Browser

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

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

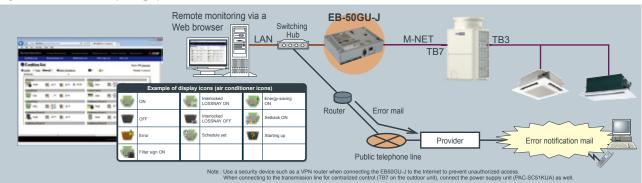
Using "Dial-up Connection"

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

		☐:Each unit ☐:Each group ☐:Each block ☐:Each floor ☐:Collection	ve X:Not	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	000	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.		
	Air flow direction setting	Air flow direction angles, 4-angle or 5-angle Swing, Auto (Louver cannot be set)	$\bigcirc \bullet \bigcirc$	
	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.		0•0	0
	Permit / Prohibit function	Individually prohibit operation of each local remote control function	000	
	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.	000	0
Ventilation interlock Operation of indoor groups or general equipment can be interlocked by the change of state (O error of indoor groups and general equipment).		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)



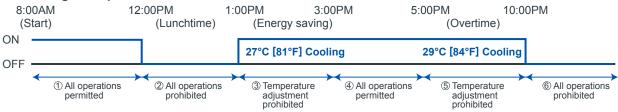
Annual / Weekly Schedule

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



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).

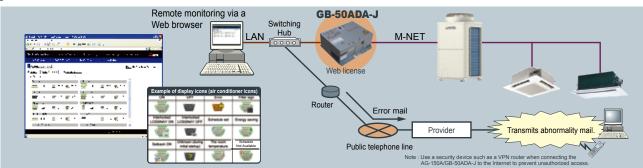
Using "Dial-up Connection"

- 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/Dry:19°C-30°C (14°C-30°C) / 67°F-87°F (57°F-87°F) Heat: 117°C-28°C (17°C-28°C) / 63°F-83°F (63°F-83°F) Auto: 119°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 and general equipment).

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

System Structure



Annual / Weekly Schedule

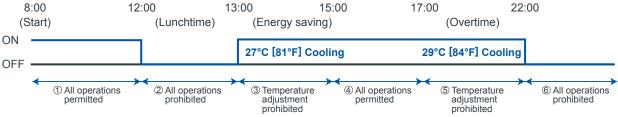
Enables Weekly and Annual scheduling with a registering license

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





Scheduling example in the office



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



AHC ADAPTER PAC-IF01AHC-J



Dimensions: $116(W) \times 90(H) \times 40(D) \text{ mm}$: $4-9/16(W) \times 3-1/2(H) \times 1-9/16(D) \text{ in.}$ Advanced HVAC CONTROLLER (hereafter referred to as AHC) comprises of MITSUBISHI ELECTRIC's AHC ADAPTER (PAC-IF01AHC-J) and $\alpha 2$ 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.

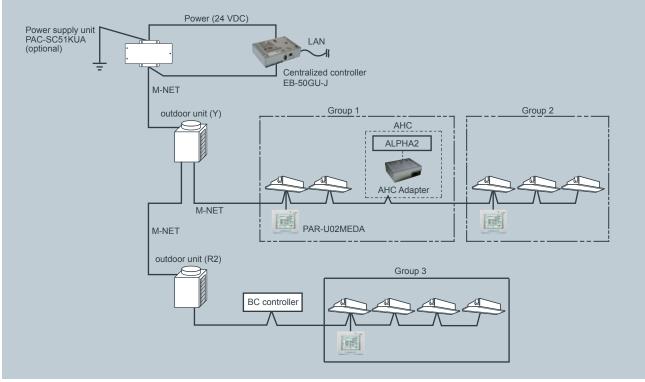
- ① Controls external devices using the sensor data of the air conditioning units connected to M-NET.
- 2 Interlocks the operation of air conditioning units and external devices that are connected to ALPHA2.
- 3 Controls air conditioning units that are connected to M-NET.
- 4 Allows for the combined 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



Centralized Remote Controller

PI Controller PAC-YG60MCA



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

No more PLCs are needed!

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

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

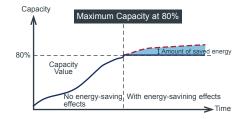
*24 VDC power needs to be provided on site.

Energy Saving Control (Peak Cut)

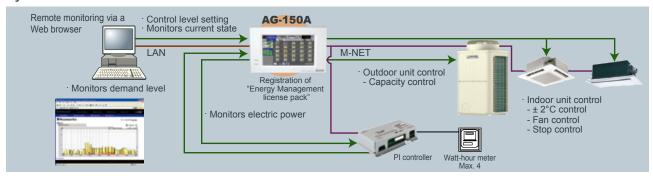
Enables Energy Saving Control with the use of our new PI controller. (Registration of "Energy Management license pack" is required.)

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

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



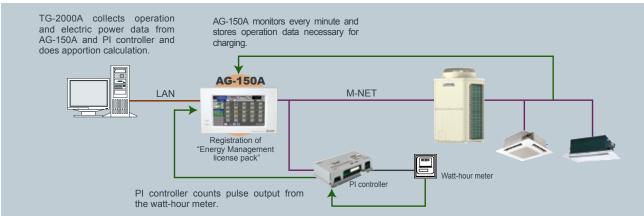
System Structure



Charge Calculation

Enables charge calculation for each tenant and output as CSV file

System Structure





Remote Controller

DIDO Controller PAC-YG66DCA



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

No more PLCs are needed!

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

*24 VDC power needs to be provided on site.

General-purpose equipment Control

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

System Structure

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





Al Controller PAC-YG63MCA



 $\begin{array}{l} \mbox{Dimension: 200(W) x 120(H) x 45(D) mm} \\ \mbox{: 7-7/8(W) x 4-3/4(H) x 1-13/16(D) in.} \end{array}$

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

The Al controller has two input and two output channels.

*24 VDC power needs to be provided on site.

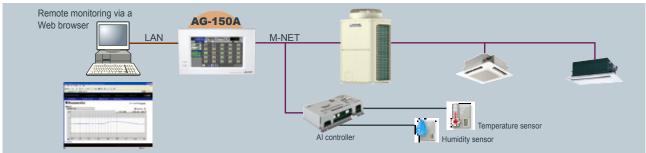
Temperature/Humidity Monitoring

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

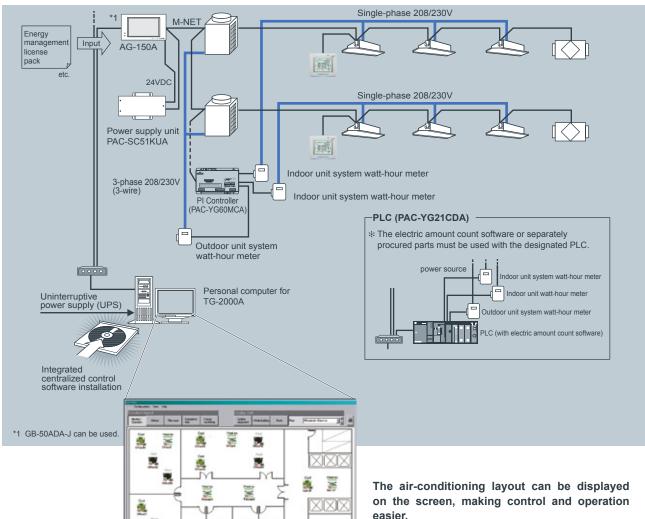


Centralized Remote Controller

Integrated centralized control software TG-2000A

Example of Basic System Configuration





Effective use of TG-2000A

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



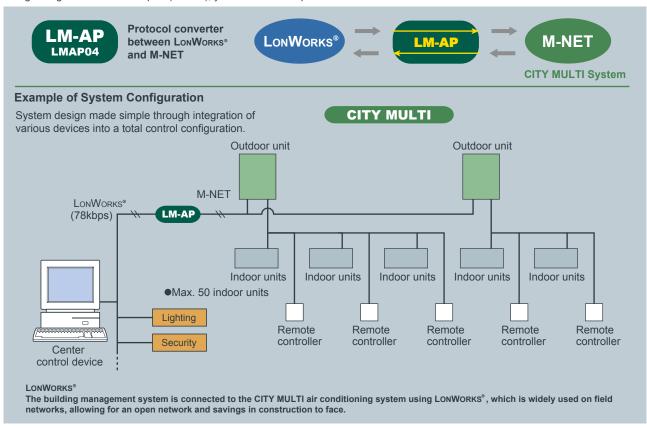
For example, installing TG-2000A to the system in the headquarters makes it possible to control AG-150A/GB-50ADA-J units that are used in branch offices.

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

Centralized Remote Controller

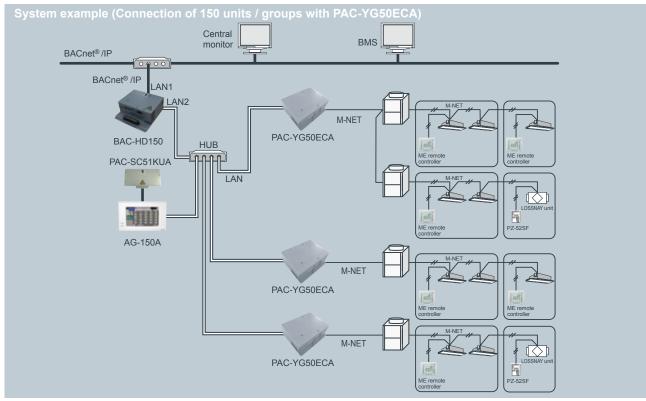
BACnet® (BAC-HD150)

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

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

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

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



BACnet® and M-NET adapter	ACnet® 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		





O ptional Parts

OPTIONAL PARTS FOR INDOOR UNITS

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

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

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

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

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

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

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

Description	Model	Applicable capacity	Remarks
Drain pump	PAC-KE04DM-F	P40~P250	
Drain pump	PAC-KE05DM-F	P200, P250	
	PAC-KE86LAF	P40, P50, P63	
Long life filter	PAC-KE88LAF	P71, P80	
Long me men	PAC-KE89LAF	P100, P125, P140	
	PAC-KE85LAF	P200, P250	
	PAC-KE63TB-F	P40, P50, P63	
Filter box	PAC-KE80TB-F	P71, P80	Necessary when long life filter is used
Filler DOX	PAC-KE140TB-F	P100, P125, P140	Necessary when long me men 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
Drain pump kit	PAC-SH84DM-E	P63,100,125
	PAC-SH88KF-E	P40
High efficiency filter	PAC-SH89KF-E	P63
	PAC-SH90KF-E	P100,125
Wireless remote controller kit	PAR-SL94B-E	P40,63,100,125

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

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

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

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

OPTIONAL PARTS FOR OUTDOOR UNITS

>>For PUMY series

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

>>For PUHY series

Description	Model	Remarks		
	CMY-Y100VBK3	For PUHY-P400~P650YSKB / EP500~EP600YSLM		
Twinning kit	CMY-Y200VBK2	For PUHY-P700~P900YSKB		
	CMY-Y300VBK3	For PUHY-P950~P1350YSKB / EP650~EP1350YSLM		
	CMY-Y102SS-G2	200 or below (Total capacity of indoor unit)		
	CMY-Y102LS-G2	201-400 (Total capacity of indoor unit)		
5 1 : (1:0)	CMY-Y202S-G2	401-650 (Total capacity of indoor unit)		
Branch pipe (Joint)	CM1-12025-G2	The 1st branch of P400~P650YSKB / EP400~EP600YSLM		
	011/1/0000 00	651 or above (Total capacity of indoor unit)		
	CMY-Y302S-G2	The 1st branch of P700~P1350YSKB / EP650~EP1350YSLM		
	CMY-Y104-G	For 4 branches		
Branch pipe (Header)	CMY-Y108-G	For 8 branches		
	CMY-Y1010-G	For 10 branches		
Relay box	PAC-BH02KTY-E	Relay box should be used together with Base heater PAC-BH-EHT-		
	PAC-BH04EHT-E	For S Module		
Base heater	PAC-BH05EHT-E	For L Module		
	PAC-BH06EHT-E	For XL Module		

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

>>For PURY series

Description	Model	Remarks		
	CMY-R100VBK-A	For PURY-P400~P500YSLM		
	CMY-R100VBK2	For PURY-P550~P650YSLM		
Twinning kit	CMY-ER100VBK-A	For PURY-EP500YSLM		
TWITITING KIL	CMY-R200VBK2	For PURY-P700~P800YSLM		
	CMY-ER200VBK	For PURY-EP550~EP900YSLM		
	CMY-R200XLVBK	For PURY-P850~900YSLM		
	CMY-Y102SS-G2	200 or below (Total capacity of indoor unit)		
December of the section of the secti	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 P450~P650		
Relay box	PAC-BH02KTY-E	Relay box should be used together with Base heater PAC-BH-EHT-E.		
	PAC-BH04EHT-E	For S Module		
Base heater	PAC-BH05EHT-E	For L Module		
	PAC-BH06EHT-E	For XL Module		

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

>>For PQHY series

Description Model		Remarks		
Branch pipe (Joint)	CMY-Y102SS-G2	200 or below (Total capacity of indoor unit)		
	CMY-Y102LS-G2	201-400 (Total capacity of indoor unit)		
	CMY-Y202S-G2	401-650 (Total capacity of indoor unit)		
	GIVI 1-12025-G2	The first branch of P400-P600		
	CMY-Y302S-G2	651 or above (Total capacity of indoor unit)		
	CMY-Y104-G	For 4 branches		
Branch pipe (Header)	CMY-Y108-G	For 8 branches		
	CMY-Y1010-G	For 10 branches		
Twinning kit	CMY-Y100VBK2	For PQHY-P400-P600YSHM-A		
	CMY-Y300VBK2	For PQHY-P650-P900YSHM-A		

>>For PQRY series

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

OPTIONAL PARTS FOR CONTROL

Model		Description		
PAC-SE41TS-E		Remote Sensor for A/J/K/M-Net Control		
PAC-SE55RA-E		Remote ON/OFF adaptor for Indoor Unit		
	PAC-SA88HA-EP	Remote Display Adaptor for Indoor Unit		
PAC-SA89TA-EP PAC-SC37SA-E PAC-SC36NA-E		Timer Adaptor for remote controller		
		Output signal connector		
		Input signal connector		
	PAC-SF46EPA	Transmission booster		
	LMAP04-E	Air conditioner interface		
PAC-YG11CDA		Electric amount count software		
	DAC HD160	PAC not® and MINET adaptor		

Model	Description
PAC-YT51HAA-J	External input/output adapter for AT-50B
PAC-YG10HA	External input/output adapter for AE-200E / AG-150A
PAC-YG50ECA	Expansion controller for AG-150A
PAC-SC51KUA	Power supply unit for AG-150A / GB-50ADA-J
PAC-YG81TB	Mounting attachment B type for AG-150A wall-mount installations
PAC-YG83UTB	Electric box for AG-150A wall-embed installations
PAC-YG84UTB	Electric box for AE-200E wall-embed installations
PAC-YG85KTB	Mounting attachment A type for AG-150A/PAC-SC51KUA wall-mount installations
PAC-YG86TK	Mounting attachment for AE-200E wall-mount installations
PAC-YG71CBL	Black surface cover for AG-150A

OPTIONAL EQUIPMENT FOR BC CONTROLLER

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

Installation Information

1. General precautions

1-1. Usage

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

1-2. Installation environment

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

1-3. Backup system

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

1-4. Unit characteristics

- ♦Heat pump efficiency depends on outdoor temperature. In the heating mode, performance drops as the outside air temperature drops. In cold climates, performance can be poor. Warm air would continue to be trapped near the ceiling and the floor level would continue to stay cold. In this case, heat pumps require a supplemental heating system or air circulator. Before purchasing them, consult your local distributor for selecting the unit and system.
- ♦When the outdoor temperature is low and the humidity is high, the heat exchanger on the outdoor unit side tends to collect frost, which reduces its heating performance. To remove the frost, Auto-defrost function will be activated and the heating mode will temporarily stop for 3-10 minutes. Heating mode will automatically resume upon completion of 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" in the Data Book for the measurement location.
- ◆Depending on the operation conditions, the unit generates noise caused by valve actuation, refrigerant flow, and pressure changes even when operating normally. Please consider to avoid location where quietness is required.
- For BC controller, it is recommended to unit to be installed in places such as ceilings of corridor, restrooms and plant rooms.
- ♦The total capacity of the connected indoor units can be greater than the capacity of the outdoor unit. However,

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

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

1-5. Relevant equipment

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

1-6. Unit installation

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

1-7. Optional accessories

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

1-8. Operation/Maintenance

- ♦Read the Instruction Book that is provided with each unit carefully prior to use.
- ♦ Maintenance or cleaning of each unit may be risky and require expertise. Read the Instruction Book to ensure safety.

Consult your local distributor or a qualified technician when special expertise is required such as when the indoor unit needs to be cleaned.

2. Precautions for Indoor unit

2-1. Operating environment

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

2-2. Unit characteristics

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

2-3. Unit installation

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

3. Precautions for Fresh air intake type indoor unit

3-1. Usage

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

3-2. Unit characteristics

- ♦This unit cannot perform the drying operation. The unit will continue the fan operation and blow fresh air (air that is not air-conditioned) when the Heating Thermo-OFF or Cooling Thermo-OFF mode is selected.
- ♦The fan may stop tentatively when the unit is connected to the simultaneous cooling/heating operation type outdoor unit (R2, WR2 series) or during the defrost cycle.
- ◆This unit switches the Thermo ON or OFF depending on the room temperature. The outside air is directly supplied into the room during Thermo OFF. Take caution of the cold supply air due to low outside air temperature and of condensation in the room due to high humidity of the outside air.
- ♦Outside air temperature ranges for the operation must be as follows:

Cooling: 21°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.

4. Precautions for Outdoor unit/Heat source unit

4-1. Installation environment

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

4-2. Circulating water

- •Follow the guidelines published by JRAIA (JRA-GL02-1994) to check the water quality of the water in the heat source unit regularly.
- •A cooling tower and heat source water circuit should be a closed circuit that water is not exposed to the atmosphere.

When a tank is installed to ensure that the circuit has enough water, minimize the contact with outside air so that the oxygen from being dissolved in the water should be 1 mg/L or less.

4-3. Unit characteristics

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

4-4. Relevant equipment

◆Provide grounding in accordance with the local regulations.

5. Precautions for Control-related items

5-1. Product specification

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

5-2. Installation environment

- ♦The surge protection for the transmission line may be required in areas where lightning strikes frequently occur.
- •A receiver for a wireless remote controller may not work properly due to the effect of general lighting. Leave a space of at least 1 m between the general lighting and receiver.
- ♦When the Auto-elevating panel is used and the operation is made by using a wired remote controller, install the wired remote controller to the place where all air conditioners controlled (at least the bottom part of them) can be seen from the wired remote controller. If not, the descending panel may cause damage or injury, and be sure to use a wireless remote controller designed for use with elevating panel (sold separately).
- ♦Install the wired remote controller (switch box) to the place where the following conditions are met.
 - ♦Where installation surface is flat
 - ♦Where the remote controller can detect an accurate room temperature

The temperature sensors that detect a room temperature are installed both on the remote controller and indoor unit. When a room temperature is detected using the sensor on the remote controller, the main remote controller is used to detect a room temperature. In this case, follow the instructions below.

- ♦Install the controller in a place where it is not subject to the heat source.

 (If the remote controller faces direct sunlight or supply air flow direction, the remote controller cannot detect an accurate room temperature.)
- ◆ Install the controller in a place where an average room temperature can be detected.
- ♦ Install the controller in a place where no other wires are present around the temperature sensor.

 (If other wires are present, the remote controller cannot detect an accurate room temperature.)
- ◆To prevent unauthorized access, always use a security device such as a VPN router when connecting AE-200E, AE-50E, AG-150A, EB-50GU-J, GB-50ADA-J, or TG-2000A to the Internet.

Maintenance Equipment

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

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

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

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

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

Table 1. Maintenance cycle

Major components	Checking cycle	Maintenance cycle	Major components	Checking cycle	Maintenance cycle
Compressor		20,000 hours	Expansion valve		20,000 hours
Motor (Fan, Louver, drain pump)	1 year	20,000 hours	Valve (solenoid valve, four-way valve) Sensor (thermistor, presser sensor)	1 year	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

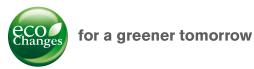
•			
Major components	Checking cycle	Replacement cycle	
Long-life filter		5 years	
High-performance filter		1 year	
Fan belt	1,,,,,,,,	5,000 hours	
Smoothing capacitor	1 year	10 years	
Fuse		10 years	
Crank case heater		8 years	

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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