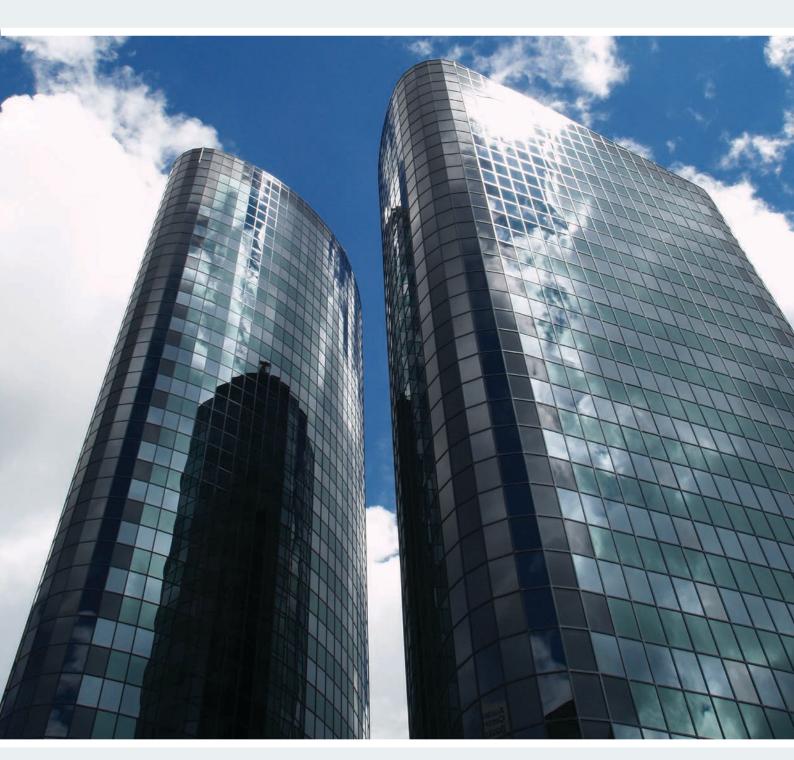
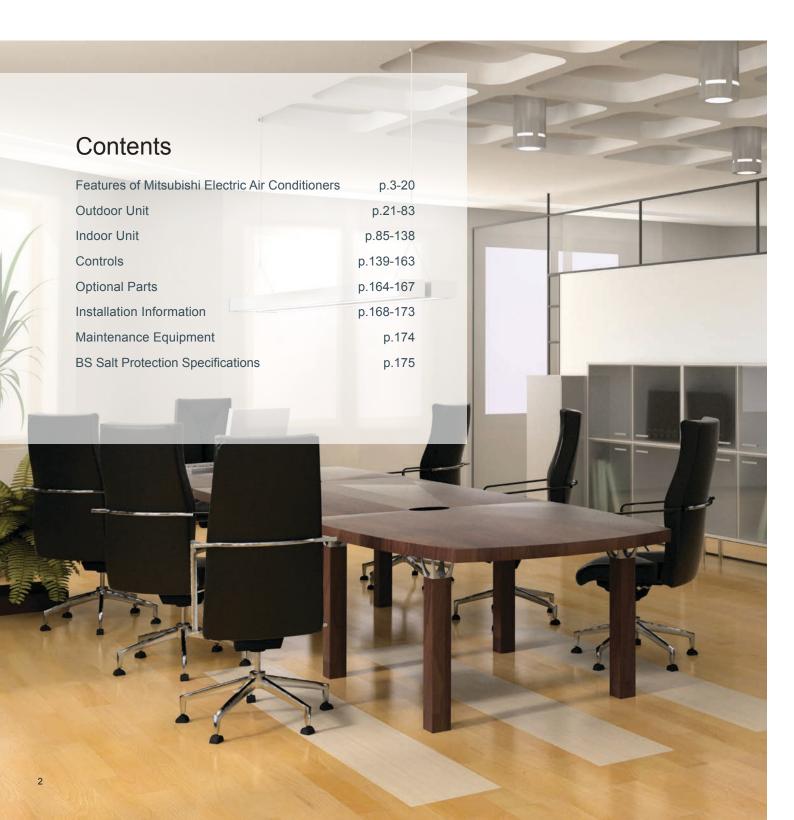


VRF City Multi Product Catalogue



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 provide heating during winter months, but air conditioning can also cool during summer, doing away with the need for separate heating/cooling 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.

Intelligent Power Module (IPM) technology

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

Inverter driven technology

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

R410A refrigerant

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

Unsurpassed air conditioning from Mitsubishi Electric

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

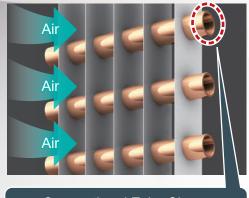
The New EP-YKB/EP-YLM Series

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 EER/COP and high air-conditioning capacity.



Conventional Heat Exchanger



Conventional Tube Shape

Flat-tube Heat Exchanger **NEW** Air Air (Illustration)

New Flat Tube

The heat exchanger of the outdoor unit has been drastically changed. Our new model uses a world-first aluminum flat-tube heat exchanger in the outdoor unit. The flat tubes can reduce airflow resistance, and a larger number of tubes can be installed into the flat-tube heat exchanger when compared to our conventional heat exchanger, greatly increasing the surface area that is in contact with the refrigerant, and greatly improving the heat exchange performance. Our new air conditioner can therefore operate at higher EER/COP 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.







PUHY-EP-YJM-A

PUHY-EP-YLM-A

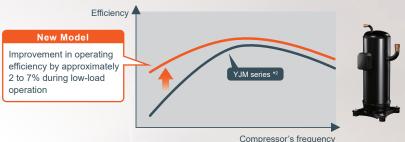
^{*1:} As of October 2013 (according to our own survey); for VRF systems

New Technology

Equipped with High Efficiency Compressor

Optimising 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

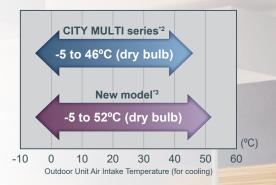


Flexibility of Design (PUHY-P-Y(S)KB-A(-BS)/PUHY-EP-Y(S)LM-A(-BS))

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

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

Summer temperatures caused by global warming 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 intake air temperature to the outdoor unit may reduce the cooling capacity of the air conditioner.



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

Less refrigerant required to be charged on site.*

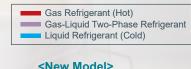
With our new flat-tube heat exchanger the amount of refrigerant to be charged on site can be controlled and reduced. For example, when the total refrigerant piping length is 150m, the amount of refrigerant to be charged on site can be reduced by approximately 10% compared to our conventional models,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

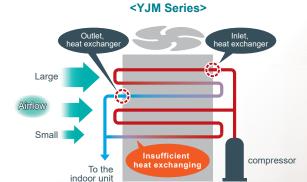
*In the case of liquid pipe ø19.05



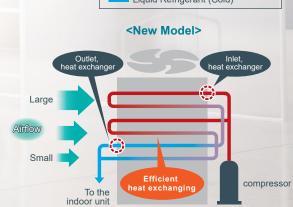
New Technology (PUHY-EP-Y(S)LM-A(-BS) only)*2

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 is reduced.



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

The New PQHY/PQRY Series

Increased capacities of single-module units and WR2 units

Single or combination-module units are available to meet various installation conditions and capacity requirements.

Conventional model









mm (in.)

<WY series>

Newly available single-module units



		P200	P250	P300	P350	P400	P450	P500	P550	P600	P650	P700	P750	P800	P850	P900
PQHY-P Y(S)LM-A	Single	S	S	S	L	L	L	L	L	L						
PQHY-P Y(S)HM-A	Single	S	S	S												
PQHY-P Y(S)LM-A	Combination					S+S	S+S	S+S	S+S	S+S		L+L	L+L	L+L	L+L	L+L
PQHY-P Y(S)HM-A	Combination					S+S	S+S	S+S	S+S	S+S	S+S+S	S+S+S	S+S+S	S+S+S	S+S+S	S+S+S

<WR2 series>

Newly available single-module units

Increased capacities up to P900



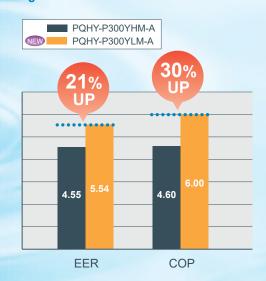
NEV

			P200	P250	P300	P350	P400	P450	P500	P550	P600	P650	P700	P750	P800	P850	P900
M	PQRY-P Y(S)LM-A	Single	S	S	S	L	L	L	L *	L	L						
	PQRY-P Y(S)HM-A	Single	S	S	S												
M	PQRY-P Y(S)LM-A	Combination					S+S	S+S	S+S	S+S	S+S		L+L	L+L	L+L	L+L	L+L
	PQRY-P Y(S)HM-A	Combination					S+S	S+S	S+S	S+S	S+S						

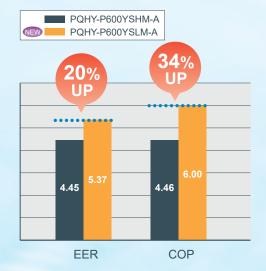
Improved EER and COP

Greatly improved EER and COP as compared to previous models

■ Comparisons of new and old single-module P300 units



■ Comparisons of new and old combination-module P600 units



Advantages of increased capacity of single-module units

Reduced piping work

Capable of covering up to P600 (24 HP) with a single module.

■ P400YSHM (WY/WR2 series)

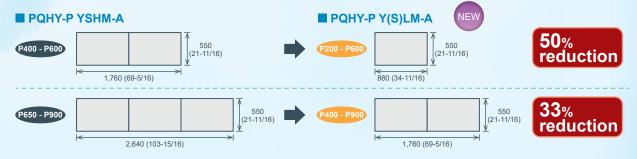
Height 1,100 (43-5/16) 1,100 (43-5/16)Depth Depth 550 (21-11/16) Width Width 550 (21-11/16) 880 (34-11/16) To indoor unit 880 Liquid Twinning pipe <optional parts> (34-11/16) To indoor unit Gas Twinning pipe <optional parts> Piping between the heat source units is necessary.

■ P400YLM (WY/WR2 series)



Reduced footprint

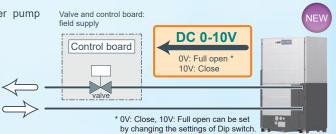
Footprint is reduced not only for single-module units but also for combination-module units.



Output signal (0-10V) for water flow rate adjustment controller

Improve system energy consumption by reducing the water pump consumption by changing water flow volume during partial load.

- Control of water flow rate
- Control output voltage (0-10V) for adjustment of valve operating [0V: Full open,10V: close]
- Voltage at 0 volt: Even when power down, water will continue to circulate.



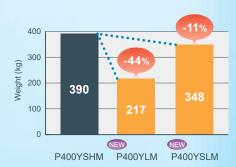
Light weight

Unit : kg [lbs]

		P200	P250	P300	P350	P400		P4	50	P5	00	P550		
PQHY	Y(S)HM	195 [430]	195 [430]	195 [430]	-	390	[860]	390 [860]		390 [860]		390 [860]		
PQHI	Y(S)LM	174 [384]	174 [384]	174 [384]	217 [479]	217 [479] *1	348 [768]	217 [479] *1	348 [768] *2	217 [479] *1	348 [768] *2	246 [543] *1	348 [768] *2	
	Y(S)HM	181[400]	181[400]	181[400]	-	362 [800]		362 [800]		362 [800]		362 [800]		
PQRY	Y(S)LM	172 [380]	172 [380]	172 [380]	216 [477]	216 [477] *1	344 [760]	216 [477] *1	344 [760] *2	216 [477] *1	344 [760] *2	246 [543] *1	344 [760] *2	

		P6	00	P700	P750	P800	P850	P900
PQHY	Y(S)HM	390	[860]	585 [1290]	585 [1290]	585 [1290]	585 [1290]	585 [1290]
PUNT	Y(S)LM	246 [543] *1	348 [768] *2	434 [958]	434 [958]	434 [958]	434 [958]	434 [958]
DODY	Y(S)HM	362	[800]	-	-	-	-	-
PQRY	Y(S)LM	246 [543] *1	344 [760] *2	432 [954]	432 [954]	432 [954]	432 [954]	432 [954]

^{*1:} Single module



^{*2:} Combination module



Sophisticated Yet Simple Technology

Reliable

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





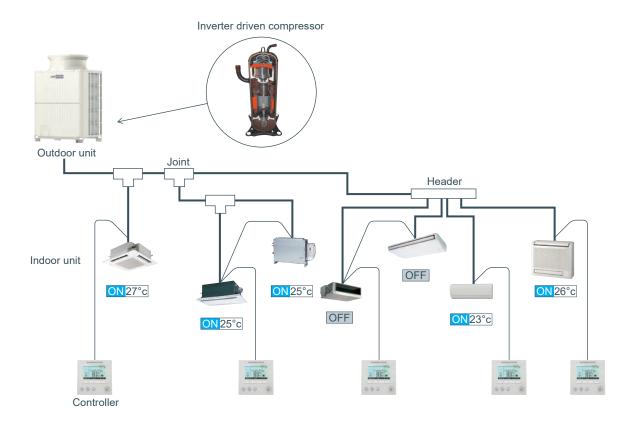
PFFY-VKM

VRF Systems

Our Answer to VRF

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

VRF is a multi and direct expansion type air conditioning system whereby one outdoor unit can be connected with multiple 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.



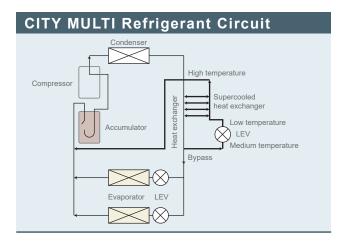


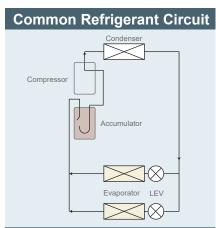


Unbeatable Efficiency

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





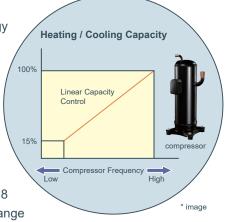
Using inverter driven technology saves energy in several ways:

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%, even though 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 favoured by the industry for its low starting currents (only 8 amps for a 18HP YLM-A outdoor unit) and smooth transition across the range of compressor frequencies.



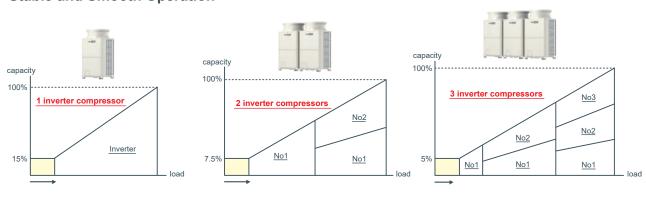
* The values vary depending on the actual conditions such as ambient temperature.

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.

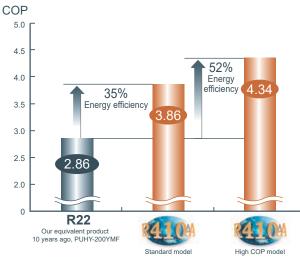
Stable and Smooth Operation





Total Energy Conservation

Comparison of COP (energy efficiency) – 8HP system



High COP (Coefficient of Performance) is achieved

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

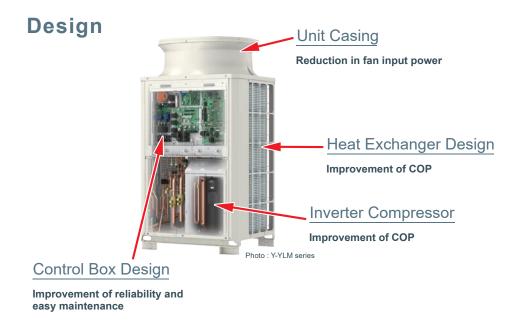
ntelligent Power Module (IPM) Technology

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

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

The Difference between YLM-A and Previous Mitsubishi Electric Models

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



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 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





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 considering safety and environmental requirements in the design, manufacturing, installation, operation, maintenance and disposal of refrigerating systems.

A highly efficient R410A scroll compressor design results in less friction loss 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.







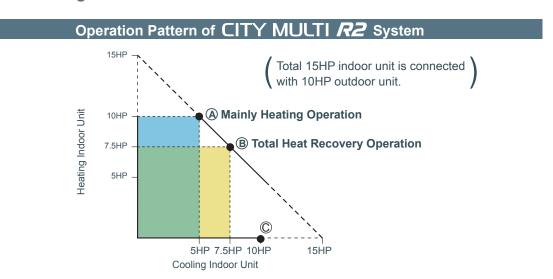






Affordable & Effective air conditioning you can rely on

Energy efficiency is maximised when the R2 Series is simultaneously heating and cooling



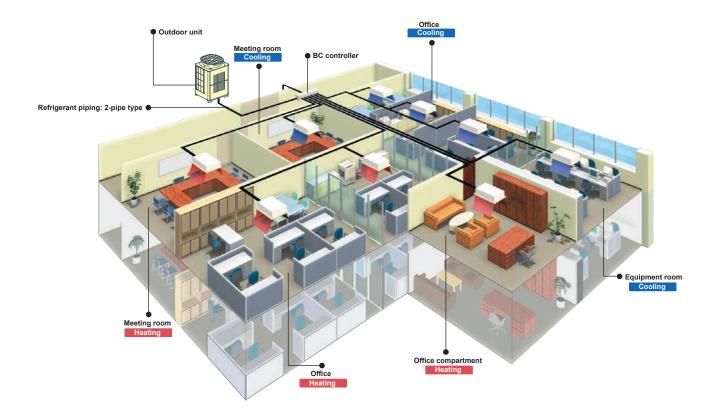
Unique Technology

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 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 an 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.









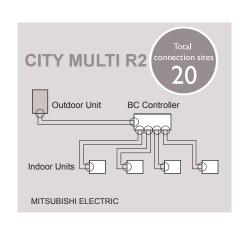


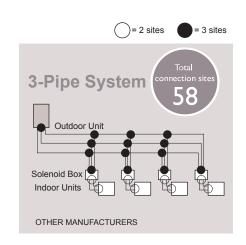




"2-pipe" System Provides Better Efficiency and Performance

Comparison Example of Piping Connection Sites





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.

Meeting room
Heating

Director's room
Heating

Double heat recovery (WR2)

Heat recovery
Heating

Heat recovery
Heating

Refrigerant Circuit

Refrigerant Ci













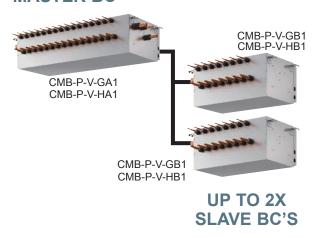
Cooling

it Out Flexibility

Mitsubishi Electric offers the most flexible piping architecture when it comes to tenant fit out flexibility. Using our multiport BC box and refrigerant ball valves on BC box outlets, it is very easy to move/add/modify indoor units. Units can be added or removed without the need for recovering the total refrigerant charge resulting in the rest of the system remaining in operation.

The City Multi BC controller allows us to have spare ports to add additional indoor units at a later date. In most situations, a slave BC controller can also be retrofitted to give additional connections.

MASTER BC





Mitsubishi Electric branch controller fitted with refrigeration ball valves for ease of maintenance and fit out flexibility.

It is very hard to achieve this with a 3 pipe system as the pipework is sized on the current connected load.

All City Multi VRF indoors and BC's are back engineered to ensure the latest products can be installed on VRF systems running on older refrigerants.



O utdoor Unit

- Heat Pump Series (S)
- Heat Pump Series (Y)
- Heat Pump Series High COP (Y)
- Heat Pump Series Zubadan
- 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

71	15		HP	4.5	5	6	8	10	12	14	16	
System	Type		odel	P112	P125	P140	P200	P250	P300	P350	P400	
		S series Page 36 - Page 37 PUMY-P VKM-A(-BS) PUMY-P YKM-A(-BS)	9	4.5	5	6						
		Y series Page 38 - Page 48 PUHY-P YKB-A(-BS)	S				8	10			8	
	Heat	PUHY-P YSKB-A(-BS)	L						12	14		
	Pump		Χl									
		Y series - High COP Page 49 - Page 59 PUHY-EP YLM-A1(-BS)	S				8	10				
		PUHY-EP YSLM-A1(-BS)	L						12	14		
Air			Χl								16	
Air Cooled		ZUBADAN series PUHY-HP YHM-A(-BS) PUHY-HP YSHM-A(-BS)	s				8	10			8	
		(When sold with water module or AHU only.)										
		Page 67 - Page 72 PURY-P YLM-A(-BS) PURY-P YSLM-A(-BS)	*1 S				8	10			8	
			L	ļ					12	14		
	Heat Recovery		XI	-								
	,	R2 series - High COP PURY-EP YLM-A1(-BS) PURY-EP YSLM-A1(-BS)	S				8	10				
			L						12	14		
			XI	_							16	
	Heat Pump	WY series NEW Page 60 - Page 65	S	ļ			8	10	12			
Water Cooled	r	PQHY-P YLM-A PQHY-P YSLM-A	L							14	16	
	Heat Recovery	WR2 series NEW Page 78 - Page 83 PORV R VI M A	S				8	10	12			
		PQRY-P YLM-A PQRY-P YSLM-A	L							14	16	

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18 P450	20 P500	22 P550	24 P600	26 P650	28 P700	30 P750	32	34 P850	36 P900	38 P950	40 P1000	42 P1050	44 P1100	46 P1150	48 P1200	50 P1250	52 P1300	54 P1350	
P450	P500	P550	P600	P650	P700	P750	P800	P850	P900	P950	P1000	P1050	P1100	P1150	P1200	P1250	P1300	P1350	
8	10)																		
 8	10	10	10							10	12	12	14						
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18	20	22	24		14	14 16	16 16	18	18										
18	20	22	24	:	14 14	14 16	16 16	16 18	18		 	 	 	 		 			

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, resulting in 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

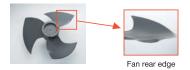
Grille shape changed

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



Inflexed fan

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

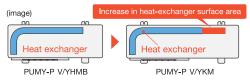
High-density heat exchanger

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

Heat-exchange surface area increased

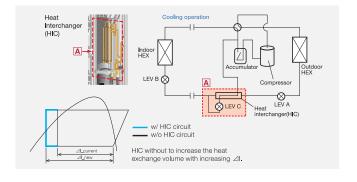
The heat exchanger size has been extended horizontally, increasing the surface area.

2 lines, 52 columns 2 lines, 64 columns



Heat Interchanger (HIC) added

An 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

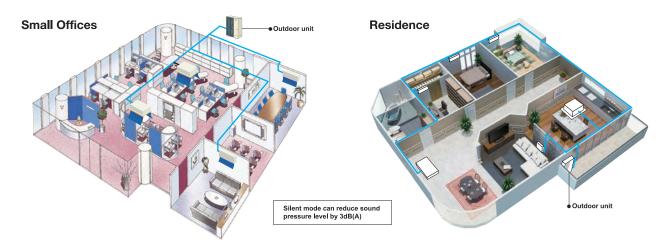




The two-pipe zoned system designed for Heat **Pump Operation**

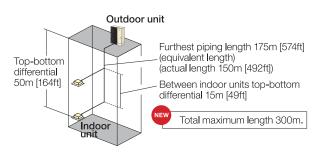
The CITY MULTI S series (for small applications) make use of a two-pipe refrigerant system, which allows for system changeover from cooling to heating, ensuring that a constant indoor climate is maintained in all zones. The compact outdoor unit utilises R410A refrigerant and an inverter-driven compressor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

With a wide range of indoor units combined 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 maximise engineer's design options. This feature allows easy air conditioning in each area with convenient individual controllers.



[P112~140(V/YKM)]

[1 112~140(0/11(0))]	
Refrigerant Piping Lengths	Maximum meters [Feet]
Total length ————————————————————————————————————	300 [984] 150 (175 equivalent) [492(574)] 30 [98]
Vertical differentials between units	Maximum meters [Feet]
Indoor/outdoor (outdoor higher) Indoor/outdoor (outdoor lower) Indoor/indoor	50 [164] 40 [131] 15 [49]



Y (Heat Pump) series



Heating or Cooling

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 utilises R410A refrigerant and an inverter-driven compressor to use energy effectively.

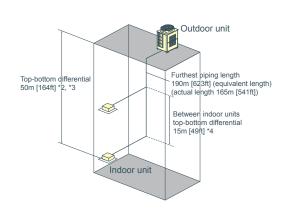
With a wide line-up of indoor units in connection with a flexible piping system, the CITY MULTI series can be configured for all applications. Up to 50 (Y series) indoor units can be connected with up to 130% connected capacity to maximise engineer's design options. This feature allows easy air conditioning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

Large Offices (Y series)



[8-54HP (Y series)]

[o o in (riight o or it ochco)]	
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) \cdots	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.



Outdoor Unit

R2 (Heat Recovery) series



Simultaneous Heating and Cooling

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 Heats and Cools

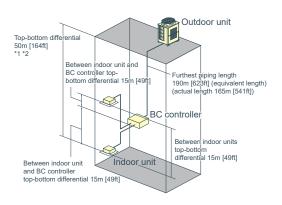
CITY MULTI R2 series offers the ultimate in freedom and flexibility, able to heat one zone while cooling another. Our exclusive BC controller makes two-pipe simultaneous cooling and heating possible. The BC controller is the technological heart of the CITY MULTI R2 series. It houses a liquid and gas 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.

Offic **Outdoor unit** 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 meters [Feet]
Total length
Total length · · · · · · · 700 [2,296]
((E)P700, 750, 800, 850, 900 only)
Maximum allowable length······ 165 (190equivalent) [541(623)]
Maximum length between outdoor
and single/main BC controller······ 110 [360]
*Maximum total length is dependent upon the distance
between the outdoor unit and the single/main BC Controller.
Maximum length between single/main
BC controller and indoor · · · · · 40-60 [131-196]
Vertical differentials between units Maximum meters [Feet]
Indoor/outdoor (outdoor higher)····· 50 [164]*2
Indoor/outdoor (outdoor lower)····· 40 [131]*2
Indoor/BC controller (single/main) · · · 15 [49]
*Maximum length between single/main BC controller and indoor is dependent upon the vertical differential
between the single/main BC controller and the indoor unit.
Indoor/indoor · · · · · 15 [49]
Main BC Controller/Sub BC Controller··· 15 [49]



^{*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



ZUBADAN ZUBADAN



Heating or Cooling

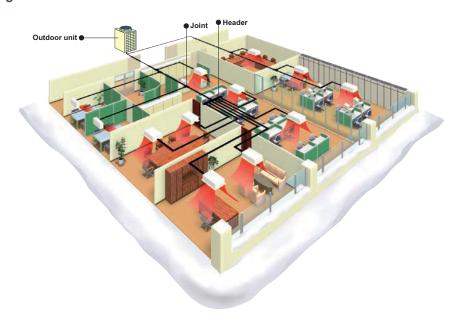
ZUBADAN series — PUHY-HP YHM-A(-BS) PUHY-HP YSHM-A(-BS)

Bringing year round comfort solutions to extreme climates

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

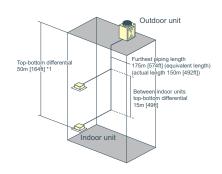
The technology behind this is a Flash Injection Circuit which provides the optimum amount of refrigerant to the system via a compressor through a specially designed injection port to ensure a particularly stable operation. With this, ZUBADAN can provide full heating performance even at -15°C and continuous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

Installation image



System Pipe Lengths

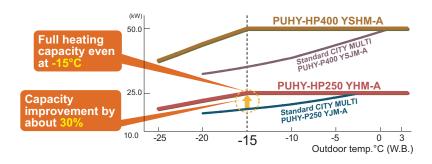
[8-10HP]	
Refrigerant Piping Lengths Total length······	Maximum meters [Feet] 300 [984]
Maximum allowable length······	150 (175equivalent) [492 (574)]
Farthest indoor from first branch	40 [131]
Vertical differentials between units	Maximum meters [Feet]
Indoor/outdoor (outdoor higher)····	50 [164]
Indoor/outdoor (outdoor lower)	40 [131]
Indoor/indoor · · · · · · · · · · · · · · · · · ·	15 [49]



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

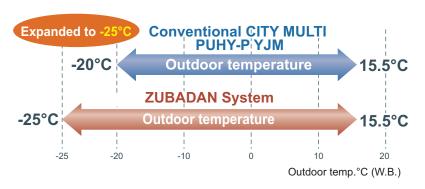


Stable Heating Performance even at -15°C

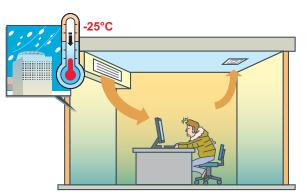


Using an industry first 'Flash-injection Circuit', the ZUBADAN System is able to provide FULL heating performance in ambient temperatures as low as -15°C.

Expanded Heating Operation down to -25°C



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



Previously, heating performance dropped off when the temperature fell below -20°C!

With ZUBADAN System



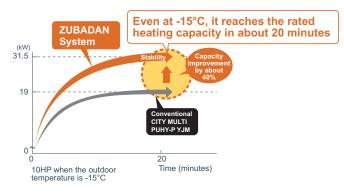
The new ZUBADAN System has no trouble keeping the occupants nice and warm at such temperatures.

High Static Pressure Setting

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

Shorter Warm-up in about 20 Min.

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



Heating capacity

Reliable and Long Product Life Cycle

Backup Function (HP400 and HP500 models)

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



Rotation Function (HP400 and HP500 models)

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



Maximum Stable Operation

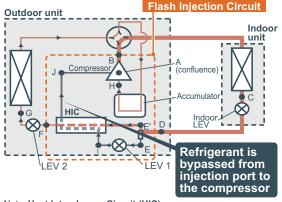
By utilising our advanced Flash Injection Circuit, the system can not only provide continuous heating for up to 250 minutes in one continuous cycle, but also significantly lessens defrost time to give exceptionally stable heating operation.

Heating up to 250 min. straight

Reduced **Defrosting time**

Startup Comfort

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



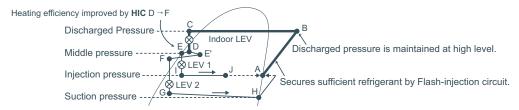
Note: Heat Interchange Circuit (HIC)

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

Constant Comfort

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

Heating capacity is maintained by the Flash-injection circuit.



[Pressure Enthalpy diagram showing HIC]

Features of Y (Heat Pump) Series & R2 (Heat Recovery) Series

Compact Design Industry Leading Weight Saving

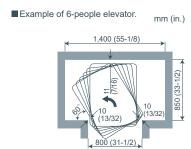
The manageability of the outdoor unit has been improved due to a drastic reduction in its weight, leading to easy transportation and installation.



Industry Leading Space Saving

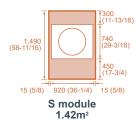
Reduced dimensions mean the outdoor unit can be transported through a 800mm wide door.

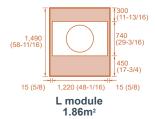


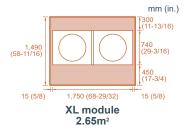


Effective Use of Space

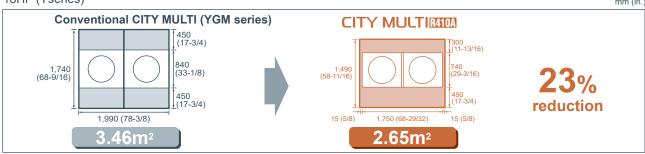
The new models have a smaller foot print and service space requirements than previous models.







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.

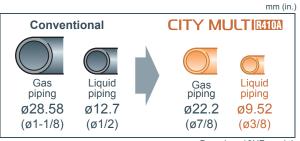
Continuing development in the design of blade shape and weight, Mitsubishi Electric have managed to achieve even higher performance and lower noise levels. To reduce noise levels further and comply with inner city residential noise regulations, all outdoor units include low noise mode. This function 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.

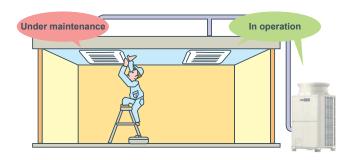


Based on 10HP model

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 traffic pollution 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.

Refer to B.S. Specification sheet on p.167

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 refrigerant volume.

Water Cooled Series



Heating or Cooling

WY series — PQHY-P Y(S)LM-A

WR2 series — PQRY-P Y(S)LM-A

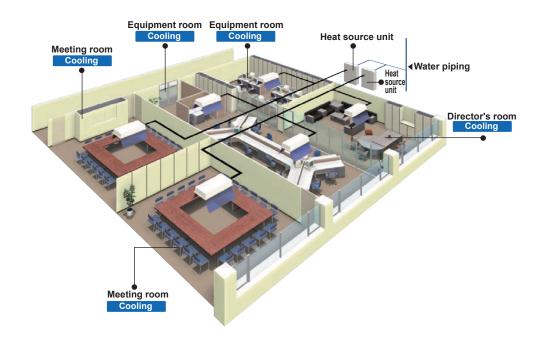
[WY (Heat Pump) series]

Water energy source system allows switching between heating and cooling.

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

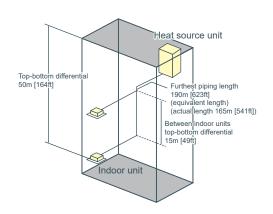
Condensing units can be situated indoors allowing greater design flexibility and no limitation on building size. Depending on capacity, up to 15 to 50 indoor units can be connected to a single condensing unit with individualised and/or centralised control. The two-pipe system allows all CITY MULTI solutions to switch between heating and cooling while maintaining a constant indoor temperature.

Installation image (WY series)



System Pipe Lengths

[P200-P900 (WY series)]	
Refrigerant Piping Lengths Total length Maximum allowable length	Maximum meters [Feet] 300-500 [984-1640]
Farthest indoor from first branch	165 (190 equivalent) [541(623)] 40 [131]
Vertical differentials between units	Maximum meters [Feet]
Indoor/heat source (heat source higher) Indoor/heat source (heat source lower) Indoor/indoor	50 [164] 40 [131] 15 [49]





Outdoor Unit

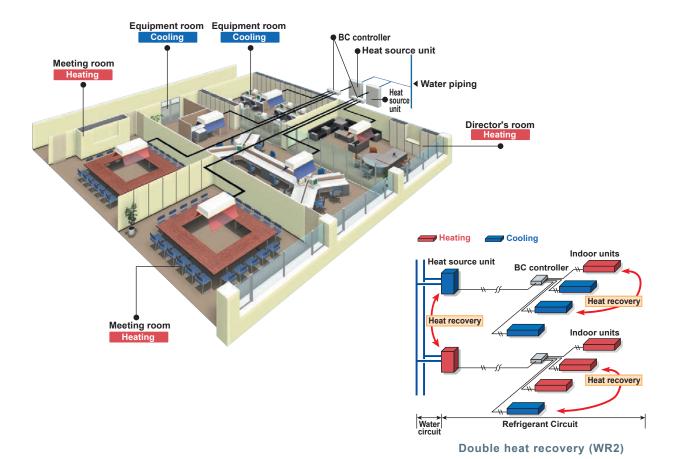
[WR2 (Heat Recovery) series]

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 a wider range of applications in high rises, frigid climates, coastal areas, etc.

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

Installation image (WR2 series)



System Pipe Lengths

[P200-P900 (WR2 series)]

Refrigerant Piping Lengths Total length Maximum allowable length	Maximum meters [Feet] 550-750 [1,804-2,460] 165 (190 equivalent) [541 (623)]
Maximum length between heat source and single/main BC controller *Maximum total length is dependent upon the distance between the outdoor unit and the single/main BC Controller.	110 [360]*1
Maximum length between single/main BC controller and indoor · · · · · · · · · ·	40 [131]*2
Vertical differentials between units	Maximum meters [Feet]
Indoor/ heat source (heat source higher) ·····	50 [164]
Indoor/ heat source (heat source lower) · · · · · · · · · · · · · · · · · · ·	40 [131]
Indoor/BC controller (single/main)	15 (10) [49 (32)]*3
Indoor/indoor	30 (20) [98 (65)]*4
Main BC Controller/Sub BC Controller	15 (10) [49 (32)]*5

Maximum length between heat so and single/main BC controller 110m [360ft] Top-bottom Heat source unit BC controller top-bottom differential 15m (10m) urthest piping length [49ft (32ft)] 190m [623ft] [541ft]) ВC controll n indoor units top-bottom differential 30m (20m) [98ft (65ft)] Between indoor unit and BC controller top-bottom differential 15m (10m) [49ft (32ft)]

- *1 Details refer to the DATA BOOK.

- *1 Details refer to the DAIA BOOK.

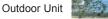
 *2 Farthest Indoor from BC controller can exceed 40m [131ft.] till 60m [197ft.] if no Indoor sized P200, P250 connected.

 Details refer to the DATA BOOK.

 *3 Distance of Indoor sized P200, P250 from BC must be less than 10m [32ft.], if any.

 *4 Distance of Indoor sized P200, P250 from IU must be less than 20m [65ft.], if any.

 *5 Distance between BC (Main) and BC (Sub) must be less than 10 m, if two BC (Sub) are installed or Indoor sized P200 and/or P250 is connected.



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
(Noninial)	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		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 level					
(measured in anechoic room) dB <a>		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 HxWxD mi		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 protection		High pressure Switch	High pressure Switch	High pressure Switch
devices	Inverter circuit (COMP./FAN)		Overcurrent detection, Overheat detection (Heatsink thermistor)	Overcurrent detection, Overheat detection (Heatsink thermistor)	Overcurrent detection, Overheat detection (Heatsink thermistor)
	Compressor		Compressor thermistor, Over current detection	Compressor thermistor, Over current detection	Compressor thermistor, Over current detection
	Fan motor		Overheating, Voltage protection	Overheating, Voltage protection	Overheating, Voltage protection
Refrigerant Type x original charge		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

Notes:

1, 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(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.

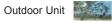




► Specifications

Model			PUMY-P112YKM-A (-BS)	PUMY-P125YKM-A (-BS)	PUMY-P140YKM-A (-BS)	
Power source	ower source		3-phase 400V 50Hz	3-phase 400V 50Hz	3-phase 400V 50Hz	
Cooling capacity	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)	*2	BTU / h	47.800	54.600	61.400	
	Power input	kW	3.13	3.74	4.47	
	Current input	Α	4.76	5.68	6.79	
	ACOP/COP	kW / kW	4.14/4.47	3.99/4.28	3.78/4.03	
Temp. range of	Indoor temp.	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	
heating	Outdoor temp.	W.B.	-20.0°C(-4°F)	-20.0°C(-4°F)	-20.0°C(-4°F)	
Indoor unit	Total capacity	*****	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	
connectable	Model / Quantity		P15~P140/9	P15~P140/10	P15~P140/12	
Sound pressure le		dD dAs				
(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 dimensio	n HxWxD	mm	1,338 x 1,050 x 330 (+25)	1,338 x 1,050 x 330 (+25)	1,338 x 1,050 x 330 (+25)	
		in.	52-11/16 x 41-11/32 x 13 (+1)	52-11/16 x 41-11/32 x 13 (+1)	52-11/16 x 41-11/32 x 13 (+1)	
Protection	High pressure pre		High pressure Switch	High pressure Switch	High pressure Switch	
devices Inverter circui		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	
opaona parto			Header: CMY-Y64/68-G-E	Header: CMY-Y64/68-G-E	Header: CMY-Y64/68-G-E	

٠,	2 Nothinal Collabora											
		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.



► 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
	EER	kW / kW	3.66	3.46
Temp. range of Indoor W.B.			15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling	Outdoor	D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)
Heating capacity	*2		25.0	31.5
(Nominal)	*2	BTU / h	85,300	107,500
,	Power input	kW	6.15	8.33
	Current input	Α	10.3-9.8-9.5	14.0-13.3-12.8
	COP	kW / kW	4.06	3.78
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
heating	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit	Total capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
connectable	Model / Quantity		P15~P250/1~17	P15~P250/1~21
Sound pressure le (measured in ane		dB <a>	57	59
Sound power leve (measured in ane		dB <a>	78	79
Refrigerant piping	Liquid pipe	mm (in.)	9.52 (3/8) Brazed	9.52 (3/8) Brazed (12.7 (1/2) Brazed, farthest length >= 90 m)
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 mechanis	m	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 pro	ess.	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 protection		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 ch	narge	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

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-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
	EER	kW / kW	3.53	3.39
		W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling	Outdoor	D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)
Heating capacity	*2		37.5	45.0
(Nominal)		BTU / h	128,000	153,500
(* ************************************	Power input	kW	9.89	13.23
	Current input	A	16.6-15.8-15.2	22.3-21.2-20.4
	COP	kW / kW	3.79	3.40
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
heating	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit	Total capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
connectable	Model / Quantity		P15~P250/1~26	P15~P250/1~30
Sound pressure le	evel	dB <a>	61	61
Sound power leve (measured in ane		dB <a>	83	83
Refrigerant piping	Liquid pipe	mm (in.)	9.52 (3/8) Brazed (12.7 (1/2) Brazed, farthest length >= 40 m)	12.7 (1/2) Brazed
diameter	Gas pipe	mm (in.)	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1
	Air flow rate	m³/min	210	210
		L/s	3,500	3,500
		cfm	7,415	7,415
	Driving mechanis	m	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 pro	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter
	Motor output	kW	8.1	10.5
	Case heater	kW	=	-
External finish			Pre-coated galvanized steel sheets (+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
		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 prote		otection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
devices	Inverter circuit (CO	MP./FAN)	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 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)
Net weight	-	kg (lbs)	251 (554)	251 (554)
Heat exchanger			Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & copper tube
Optional parts			Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G	Joint: CMY-Y102SS/LS-G2,CMY-Y202S-G2 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

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)
neating	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
ndoor unit	Total capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
connectable	Model / Quantity		P15~P250/1~34	P15~P250/1~39	P15~P250/1~43
Sound pressure le	evel	dB <a>	60	61.5	62
measured in ane	choic room)	ub \A>	00	01.5	02
Sound power leve		dB <a>	81	82	82
measured in ane	choic room)	ub \A>	01	62	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	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, 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	5.5	5.5	5.5	6.9	6.9	6.9
	Case heater	kW	-	_	_	-	_	_
External finish				nized steel sheets ng for -BS type) ' 8/1 or similar>	(+powder coati	nized steel sheets ng for -BS type) ' 8/1 or similar>	(+powder coati	nized steel sheets ng for -BS type) ' 8/1 or similar>
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 devices	High pressure pre	otection		High pressure switch	High pressure sensor at 4.15 MP	High pressure switch	High pressure sensor	, High pressure switch 2a (601 psi)
devices	Inverter circuit (CO	MD /EANI)		Over-current protection	Over-heat protection, (Over-heat protection,	
	Compressor	IVIF./FAIN)	Over-heat protection	Over-heat protection		Over-heat protection	Over-heat protection	
	Fan motor			· · · · · · · · · · · · · · · · · · ·			Over-current protection	
Defriences				Over-current protection		Over-current protection		
Refrigerant	Type x original ch			,	R410A x 6.5 kg (15 lbs)	0 \ /	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				s fin & copper tube		s fin & copper tube		s fin & copper tube
Pipe between unit		mm (in.)	9.52 (3/8) Brazed	9.52 (3/8) Brazed	9.52 (3/8) Brazed	9.52 (3/8) Brazed	9.52 (3/8) Brazed	9.52 (3/8) Brazed
	Gas pipe	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed
Optional parts				tit: CMY-Y100VBK3		it: CMY-Y100VBK3		kit: CMY-Y100VBK3
			Joint: CMY-Y		Joint: CMY-Y			102SS/LS-G2,
				202S/302S-G2		202S/302S-G2		202S/302S-G2
			Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-G

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.





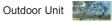


► Specifications

Model			PUHY-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)	*1	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		69.0	76.5	81.5
(Nominal)	*2 BTU		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 level (measured in anechoic room)		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 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	6.9	8.1	6.9	10.5	8.1	10.5
	Case heater	kW	_	-	-	-	_	_
External finish			(+powder coatii	e-coated galvanized steel sheets Pre-coated galvanized steel sheets (+powder coating for -BS type) (MUNSELL 5Y 8/1 or similar> 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 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 pro	otection	High pressure sensor,	High pressure switch	High pressure sensor	High pressure switch	High pressure sensor	, 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-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	arge	R410A x 8.0 kg (18 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 8.0 kg (18 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)
Net weight		kg (lbs)	199 (439)	251 (554)	199 (439)	251 (554)	251 (554)	251 (554)
Heat exchanger			Salt-resistant cross	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 k	tit: CMY-Y100VBK3	Outdoor Twinning k	it: CMY-Y100VBK3	Outdoor Twinning I	kit: CMY-Y100VBK3
			Joint: CMY-Y1		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 leve (measured in ane		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	m	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 2
*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 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			Pre-coated galvanized steel sheets (+powder coating for -BS type) (<munsell 1="" 5y="" 8="" or="" similar=""> Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell></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 1,750 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 pro	otection	High pressure sensor	High pressure switch	High pressure sensor	, High pressure switch	High pressure sensor	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-heat protection, (Over-current protection	Over-heat protection,	Over-current protection
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
	Fan motor		Over-current protection	Over-current protection	Over-current protection	Over-current protection	Over-current protection	Over-current protection
Refrigerant	Type x original ch	narge	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.8 kg (27 lbs
Net weight		kg (lbs)	251 (554)	251 (554)	251 (554)	251 (554)	251 (554)	304 (671)
Heat exchanger			Salt-resistant cros	s fin & copper tube	Salt-resistant 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	
Optional parts				it: CMY-Y200VBK2		kit: CMY-Y200VBK2		it: CMY-Y200VBK2
			Joint: CMY-Y		Joint: CMY-Y		Joint: 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.





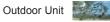


► Specifications

Model			PUHY-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	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	m	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	rect-driven by motor	
	Motor output	kW	0.92 x 1	0.92 x 2	0.92 x 2	0.92 x 2	
*3	External static pro	ess.	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	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 galva	nized steel sheets	Pre-coated galvanized steel sheets		
				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	
		1111111	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	
			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 pro				High pressure sensor, High press		
devices	Inverter circuit (CO	MP./FAN)		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		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 cros	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 k	kit: CMY-Y200VBK2	
				62, CMY-Y202S/302S-G2		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	evel	dB <a>	66.5	66.5
(measured in ane	choic room)	ub \A>	00.5	0.00
Sound power leve	l	dB <a>	87	88
(measured in ane			01	00
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 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 mmH ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverte	er scroll hermetic comp	ressor	Inverter scroll hermetic compressor		
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	6.9	8.1	10.8	8.1	8.1	10.8
	Case heater	kW	-	-	-	-	_	_
External finish			Pre-co	ated galvanized steel	sheets	Pre-co	ated galvanized steel	sheets
			(+powder coating for -BS type)				owder coating for -BS t	
			<munsell 1="" 5y="" 8="" or="" similar=""></munsell>			<mu< td=""><td>JNSELL 5Y 8/1 or simi</td><td>ilar></td></mu<>	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
			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)	
			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	-	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	
Refrigerant	Type x original ch		R410A x 8.0 kg (18 lbs)			R410A x 11.5 kg (26 lbs)		
Net weight		kg (lbs)	199 (439)	251 (554)	251 (554)	251 (554)	251 (554)	251 (554)
Heat exchanger			sistant cross fin & copp		Salt-res	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 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-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 aned	choic room)	ub <a>	66.5	66.5
Sound power leve		4D 4A>	88	88
(measured in aned			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

		,		()			(. 0.0)	
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	sm	Inverter-	-control, Direct-driven I	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 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	8.1	10.5	10.8	10.5	10.5	10.8
	Case heater	kW	-	-	-	-	_	-
External finish			Pre-co	ated galvanized steel	sheets	Pre-co	pated galvanized steel	sheets
			(+powder coating for -BS type)			(+powder coating for -BS type)		
			<munsell 1="" 5y="" 8="" or="" similar=""></munsell>			<mi< td=""><td>UNSELL 5Y 8/1 or sim</td><td>ilar></td></mi<>	UNSELL 5Y 8/1 or sim	ilar>
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 1,220 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 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16
Protection	High pressure pr				at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
devices	Inverter circuit (CO	MP./FAN)		protection, Over-currer			protection, Over-currer	
	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					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			sistant cross fin & copp			sistant cross fin & copp		
Pipe between unit	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed	12.7 (1/2) Brazed	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			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

١,	, 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-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
connectable	Model / Quantity		P15~P250/2~50	P15~P250/2~50
Sound pressure le	evel	-ID - 445	00.5	00
(measured in ane	choic room)	dB <a>	68.5	69
Sound power leve		dD <a>	88.5	88.5
(measured in ane	choic room)	dB <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	m	Inverter-	-control, Direct-driven b	by 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 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 mmH ₂ O)
Compressor	Type x Quantity		Inverte	er scroll hermetic comp			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-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 1,220 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)		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
	Fan motor				Over-current protection		Over-current protection	
Refrigerant	Type x original ch			R410A x 11.5 kg (26 lbs)				
Net weight	-	kg (lbs)	251 (554)	251 (554)	304 (671)	251 (554)	251 (554)	304 (671)
Heat exchanger		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			102SS/LS-G2, CMY-Y	
		Head	der: CMY-Y104/108/10	10-G	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.





► 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)
ndoor unit	Total 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

				. ()			- ()	
Set Model						1		
Model			PUHY-P350YKB-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	by motor	Inverter	-control, Direct-driven I	by motor
	Motor output	kW	0.92 x 1	0.92 x 2	0.92 x 2	0.92 x 1	0.92 x 2	0.92 x 2
*3	External static pr	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 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverte	er scroll hermetic comp	ressor	Inverte	er scroll hermetic comp	pressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	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	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without	1,710 (1,650 without
			legs) x 1,220 x 740	legs) x 1,750 x 740	legs) x 1,750 x 740	legs) x 1,220 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 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 pre		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
devices	Inverter circuit (CO	MP./FAN)	Over-heat p	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	narge		R410A x 11.8 kg (27 lbs)		R410A x 11.5 kg (26 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)
Net weight		kg (lbs)	251 (554)	304 (671)	304 (671)	251 (554)	304 (671)	304 (671)
Heat exchanger			sistant cross fin & copp			sistant cross fin & copp		
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			Outdoor	Twinning kit: CMY-Y3	00VBK3	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

		PUHY-P1350YSKB-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	52.08
Current input	Α	87.9-83.5-80.5
EER	kW / kW	2.88
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	53.84
Current input	Α	90.8-86.3-83.2
COP	kW / kW	3.12
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~P250/2~50
vel choic room)	dB <a>	71
l choic room)	dB <a>	90
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	Power input

Set Model						
Model			PUHY-P450YKB-A (-BS)	PUHY-P450YKB-A (-BS)	PUHY-P450YKB-A (-BS)	
FAN Type x Quantity Air flow rate m³/min		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2		
		m³/min	360	360	360	
		L/s	6,000	6,000	6,000	
		cfm	12,712	12,712	12,712	
	Driving mechanis	sm	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	
	Motor output	kW	0.92 x 2	0.92 x 2	0.92 x 2	
*3	External static pr	ess.	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 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 (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>	
External dimensio	n HxWxD	mm	1,710 (1,650 without legs) x 1,750 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 pr	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			26.36 (1-1/6) Blazed 26.36 (1-			

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

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		25.0	31.5	37.5
(Nominal)		BTU / h	85,300	107,500	128.000
(raominar)	Power input	kW	5.73	7.68	9.16
	Current input	A	9.6-9.1-8.8	12.9-12.3-11.8	15.4-14.6-14.1
	COP	kW / kW	4.36	4.10	4.09
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
heating	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit	Total capacity	VV.D.	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
connectable	Model / Quantity		P15~P250/1~17	P15~P250/1~21	P15~P250/1~26
			P15~P250/1~17	P15~P250/1~21	P15~P250/1~26
Sound pressure le (measured in anec	choic room)	dB <a>	57	60	61
Sound power leve (measured in aned		dB <a>	79.5	80	82
Refrigerant piping diameter	Liquid pipe	mm (in.)	9.52 (3/8) Brazed	9.52 (3/8) Brazed (12.7 (1/2) Brazed, farthest length >= 90 m)	9.52 (3/8) Brazed (12.7 (1/2) Brazed, farthest length >= 40 m)
	Gas pipe	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed
FAN	Type x Quantity	,	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m³/min	175	175	200
		L/s	2.917	2.917	3.333
		cfm	6.179	6.179	7.062
	Driving mechanis		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1
*3	External static press.		0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)
Compressor	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	5.6	6.9	8.1
	Case heater	kW	_	_	_
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>
External dimensio	n HxWxD	mm in.	1,710 (1,650 without legs) x 920 x 740 67-3/8 (65 without legs) x 36-1/4 x 29-3/16	1,710 (1,650 without legs) x 920 x 740 67-3/8 (65 without legs) x 36-1/4 x 29-3/16	1,710 (1,650 without legs) x 1,220 x 740 67-3/8 (65 without legs) x 48-1/16 x 29-3/16
Protection	High pressure pre		High pressure sensor, High pressure switch	High pressure sensor, High pressure switch	
devices	g., procedure pri	50001	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	, , , , , o , , o , , g , , ld i o i	kg (lbs)	208 (459)	208 (459)	252 (556)
Heat exchanger		g (103)	Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube
Optional parts			Joint: CMY-Y102SS/LS-G2	Joint: CMY-Y102SS/LS-G2	Joint: CMY-Y102SS/LS-G2
Optional parts			Header: CMY-Y104/108/1010-G	Header: CMY-Y104/108/1010-G	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.



► Specifications

Model			PUHY-EP350YLM-A (-BS)	PUHY-EP400YLM-A (-BS)	PUHY-EP450YLM-A (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	40.0	45.0	50.0
(Nominal)		BTU / h	136,500	153,500	170,600
(11011111111)	Power input	kW	11.69	12.26	14.79
	Current input	A	19.7-18.7-18.0	20.6-19.6-18.9	24.9-23.7-22.8
	EER	kW / kW	3.42	3.67	3.38
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling	Outdoor	D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)
Heating capacity	*2		45.0	50.0	56.0
(Nominal)		BTU / h	153,500	170,600	191,100
(Norminal)					16.09
	Power input	kW	12.53	13.15	
	Current input	A	21.1-20.0-19.3	22.1-21.0-20.3	27.1-25.8-24.8
	COP	kW / kW	3.59	3.80	3.48
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
heating	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit	Total capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
connectable	Model / Quantity		P15~P250/1~30	P15~P250/1~34	P15~P250/1~39
Sound pressure le (measured in aned		dB <a>	61	62.5	63
Sound power leve (measured in aned		dB <a>	82.5	82.5	83
Refrigerant piping	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed
diameter	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
FAN	Type x Quantity	,	Propeller fan x 1	Propeller fan x 2	Propeller fan x 2
	Air flow rate	m³/min	200	320	370
		L/s	3.333	5,333	6,167
		cfm	7.062	11.299	13.065
	Driving mechanis	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 2	0.92 x 2
*3	External static press.		0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)
Compressor	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
COp. COCC.	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	10.5	10.9	12.4
	Case heater	kW	-	-	_
External finish	Todos Hodio		Pre-coated galvanized steel sheets (+powder coating for -BS type)	Pre-coated galvanized steel sheets (+powder coating for -BS type)	Pre-coated galvanized steel sheets (+powder coating for -BS type)
Estamal disease	- 11:4M:D		<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 in.	1,710 (1,650 without legs) x 1,220 x 740 67-3/8 (65 without legs) x 48-1/16 x 29-3/16		1,710 (1,650 without legs) x 1,750 x 740 67-3/8 (65 without legs) x 68-15/16 x 29-3/16
Protection devices	High pressure pro		at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch 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 10.3 kg (23 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)
Net weight		kg (lbs)	252 (556)	318 (702)	318 (702)
Heat exchanger			Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube
-			Joint: CMY-Y102SS/LS-G2.CMY-Y202S-G2		
Optional parts			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-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 A		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)	
Indoor unit	Total capacity	•	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	
connectable	Model / Quantity		P15~P250/1~43	P15~P250/2~47	P15~P250/2~50	
Sound pressure le	evel	dB <a>	63	63.5	64	
(measured in ane	choic room)	UB <a>	03	63.5	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	

O-4 M- d-1	p.p			,				
Set Model	,							
Model	1					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	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		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)
	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
Camananan	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 galvar	nized steel sheets	Pre-coated galva	nized steel sheets
			(+powder coating for -BS type)		(+powder coating for -BS type)		(+powder coating for -BS type)	
			<munsell 5y<="" td=""><td>' 8/1 or similar></td><td><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
		111111	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)
			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 switch		, High pressure switch
devices				^o a (601 psi)	at 4.15 MP			a (601 psi)
	Inverter circuit (CO	MP./FAN)		Over-current 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 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			Outdoor Twinning k	it: CMY-Y100VBK3	Outdoor Twinning k	it: CMY-Y100VBK3	Outdoor Twinning I	it: CMY-Y100VBK3
				S-G2, CMY-Y202S-G2	Joint: CMY-Y102SS/L	S-G2, CMY-Y202S-G2	Joint: CMY-Y102SS/L	S-G2, CMY-Y202S-G2
			Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-G



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 / $3.1 mmH_2O$, $6.1 mmH_2O$).

^{*}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)
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	-ID A	00	00.5
(measured in ane		dB <a>	63	63.5
Sound power leve	i	-ID A	04.5	05.5
(measured in ane		dB <a>	84.5	85.5
Refrigerant piping	Liquid pipe	mm (in.)	15.88 (5/8) Brazed	19.05 (3/4) Brazed
diameter	Gas pipe mm (in.)		28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed

diameter	Gas pipe	mm (in.)		28.58 (1-1/8) Brazed			34.93 (1-3/8) Brazed	
Set Model								
Model			PUHY-EP200YLM-A (-BS)	PUHY-EP200YLM-A (-BS)	PUHY-EP250YLM-A (-BS)	PUHY-EP200YLM-A (-BS)	PUHY-EP200YLM-A (-BS)	PUHY-EP300YLM-A (-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	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 mmH₂O)	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	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)					
				JNSELL 5Y 8/1 or simi			UNSELL 5Y 8/1 or simi	
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)	
			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 switch			, High pressure switch	
devices	Inverter circuit (CC	MP./FAN)		protection, Over-current	F	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	narge					R410A x 7.5 kg (17 lbs)	R410A x 10.3 kg (23 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 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

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	Α	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 (measured in ane		dB <a>	64.5	65
Sound power level (measured in anechoic room)		dB <a>	85.5	86.5
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
Set Model				· ·

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 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 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	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	5.6	6.9	8.1	5.6	8.1	8.1	
	Case heater	kW	-	-	-	-	-	_	
External finish	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 dimensio	n HvWvD	mm	1,710 (1,650 without		1,710 (1,650 without			1,710 (1,650 without	
External dimensio	TIXWAD		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 pre			, High pressure switch		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
devices	Inverter circuit (CO	MP./FAN)		protection, Over-current			protection, Over-current		
	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 7.5 kg (17 lbs)		R410A x 7.5 kg (17 lbs)			
Net weight		kg (lbs)	208 (459)	208 (459)	252 (556)	208 (459)	252 (556)	252 (556)	
Heat exchanger			Salt-resis	stant cross fin & alumir	ium tube		stant cross fin & alumir	nium tube	
Pipe between unit	Liquid pipe	mm (in.)	9.52 (3/8) Brazed	9.52 (3/8) Brazed	12.7 (1/2) Brazed	9.52 (3/8) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	
and distributor	Gas pipe	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	
Optional parts		Joint: CMY-Y	Twinning kit: CMY-Y3 102SS/LS-G2, CMY-Y der: CMY-Y104/108/10	202/302S-G2	Joint: CMY-Y	r Twinning kit: CMY-Y3 102SS/LS-G2, CMY-Y der: CMY-Y104/108/10	202/302S-G2		
			Head	der: CMY-Y104/108/10	10-G	Hea	der: CMY-Y104/108/10	10-G	



٠,	, 2 HOTHING COTAGOOD										
		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	evel	dD dAs	05.5	00
measured in ane	choic room)	dB <a>	65.5	66
Sound power leve		dD dAs	00.5	0.7
measured in ane	choic room)	dB <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

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 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 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	8.1	8.1	8.1	8.1	
	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)			
				JNSELL 5Y 8/1 or simi			<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	
			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				at 4.15 MPa (601 psi)		, High pressure switch		
devices	Inverter circuit (CO	MP./FAN)		protection, Over-currer			protection, Over-currer		
	Compressor		Over-heat protection	Over-heat protection	<u> </u>		Over-heat protection		
	Fan motor			Over-current protection			Over-current protection		
Refrigerant	Type x original ch					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 & alumir			
Pipe between unit		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		
Optional parts				Twinning kit: CMY-Y3		Outdoor Twinning kit: CMY-Y300VBK3			
				102SS/LS-G2, CMY-Y			102SS/LS-G2, CMY-Y		
			Header: CMY-Y104/108/1010-G			Header: CMY-Y104/108/1010-G			



٠,	2 Nothinal Collations										
		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)
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>	66	66.5
(measured in ane	choic room)	UB <a>	00	00.5
Sound power leve	1	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	sm	Inverter	-control, Direct-driven I	by motor	Inverter	-control, Direct-driven I	by motor	
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 2	
*3	External static pr	ess.	0 Pa (0 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)	0 Pa (0 mmH ₂ O)	
Compressor	Type x Quantity		Inverte	er scroll hermetic comp	ressor	Inverte	Inverter scroll hermetic compressor		
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	8.1	8.1	10.5	8.1	8.1	10.9	
	Case heater	kW	_	_	-	-	_	-	
External finish			Pre-co	pated galvanized steel	sheets	Pre-coated galvanized steel sheets			
				owder coating for -BS t		(+powder coating for -BS type)			
			<m< td=""><td>UNSELL 5Y 8/1 or simi</td><td></td><td>****</td><td>UNSELL 5Y 8/1 or simi</td><td></td></m<>	UNSELL 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 1,220 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)		
			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 pr			; High pressure switch			re sensor, High pressure switch at 4.15 MPa (601 psi)		
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	
	Fan motor				Over-current protection		Over-current protection	Over-current protection	
Refrigerant	Type x original cl				R410A x 10.3 kg (23 lbs)				
Net weight		kg (lbs)	252 (556)	252 (556)	252 (556)	252 (556)	252 (556)	318 (702)	
Heat exchanger			stant cross fin & alumir	*		stant cross fin & alumir			
Pipe between unit		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		
Optional parts				r Twinning kit: CMY-Y3			Twinning kit: CMY-Y3		
				102SS/LS-G2, CMY-Y			102SS/LS-G2, CMY-Y		
			Hea	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

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	Α	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)
ndoor 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>	66.5	66.5
(measured in ane	choic room)	UB <a>	0.00	00.5
Sound power leve		dB <a>	87.5	87.5
(measured in ane	choic room)	ub <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	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 pr	ess.	0 Pa (0 mmH₂O)	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)	
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-coated galvanized steel sheets			
				owder coating for -BS t		(+powder coating for -BS type)			
				UNSELL 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		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			ssure 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	
	Fan motor				Over-current protection		Over-current protection		
Refrigerant	Type x original ch					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		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	



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.







► 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	evel	dB <a>	66.5	67
(measured in ane	choic room)	ub <a>	00.5	67
Sound power leve		dB <a>	87.5	87.5
(measured in ane	choic room)	ub <a>	01.5	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 (-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	m	Inverter-	-control, Direct-driven b	by motor	Inverter	-control, Direct-driven I	11,299	
	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 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		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	-	-	-	-			
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				
		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 1,750 x 740	legs) x 1,750 x 740	
		in.		67-3/8 (65 without legs)					
			x 48-1/16 x 29-3/16	x 48-1/16 x 29-3/16	x 68-15/16 x 29-3/16	x 48-1/16 x 29-3/16	x 68-15/16 x 29-3/16		
Protection	High pressure pro			High pressure switch			gh pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
devices	Inverter circuit (CO	MP./FAN)		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)	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			stant cross fin & alumin			stant cross fin & alumir			
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	



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.



► 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)
ndoor 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>	07.5	00
measured in ane		gB <a>	67.5	68
Sound power leve		4D 4A>	88	88
(measured in aned	choic room)	dB <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	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 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 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	
Compressor	Type x Quantity		Inverte	er scroll hermetic comp	ressor	Inverte	Inverter scroll hermetic compressor		
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	10.5	12.4	12.4	10.9	12.4	12.4	
	Case heater	kW	_	_	-	-	_	-	
External finish			Pre-co	pated galvanized steel	sheets	Pre-coated galvanized steel sheets			
				owder coating for -BS t		(+powder coating for -BS type)			
			<mi< td=""><td>UNSELL 5Y 8/1 or simi</td><td></td><td>****</td><td>UNSELL 5Y 8/1 or simi</td><td>ilar></td></mi<>	UNSELL 5Y 8/1 or simi		****	UNSELL 5Y 8/1 or simi	ilar>	
External dimensio	n HxWxD	mm	1,710 (1,650 without			1,710 (1,650 without		1,710 (1,650 without	
		111111	legs) x 1,220 x 740	legs) x 1,750 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 pr			; High pressure switch			sure sensor, High pressure switch at 4.15 MPa (601 psi)		
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	
	Fan motor				Over-current protection		Over-current protection	Over-current protection	
Refrigerant	Type x original cl				R410A x 11.8 kg (27 lbs)		R410A x 11.8 kg (27 lbs)		
Net weight		kg (lbs)	252 (556)	318 (702)	318 (702)	318 (702)	318 (702)	318 (702)	
Heat exchanger			stant cross fin & alumir	*		stant cross fin & alumir			
Pipe between unit		mm (in.)	12.7 (1/2) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	
and distributor	Gas pipe	mm (in.)			28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		
Optional parts				r 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	



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.





► Specifications

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

Set Model						
Model		PUHY-EP450YLM-A (-BS)	PUHY-EP450YLM-A (-BS)	PUHY-EP450YLM-A (-BS)		
FAN Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2		
	Air flow rate	m³/min	370	370	370	
		L/s	6,167	6,167	6,167	
		cfm	13,065	13,065	13,065	
	Driving mechanis	m		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 mmH ₂ O)	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 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		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)		kg (lbs)	318 (702)	318 (702)	318 (702)	
Heat exchanger			Salt-resistant cross fin & aluminium tube			
Pipe between unit Liquid pipe mm (in.) and distributor Gas pipe mm (in.)		mm (in.)	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	
		28.58 (1-1/8) Brazed	28.58 (1-1/8) 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				



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.

HEAT SOURCE UNIT NEW WY (Heat Pump) Series PQHY-P YLM-A





Model			PQHY-P200YLM-A	PQHY-P250YLM-A	PQHY-P300YLM-A
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)		kcal / h	20.000	25.000	30.000
,	*1	BTU / h	76.400	95.500	114.300
	Power input	kW	3.71	4.90	6.04
	Current input	Α	6.2-5.9-5.7	8.2-7.8-7.5	10.1-9.6-9.3
	EER	kW / kW	6.03	5.71	5.54
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)		kcal / h	21,500	27,100	32,300
(/	*2	BTU / h	85,300	107,500	128.000
	Power input	kW	3.97	5.08	6.25
	Current input	Α	6.7-6.3-6.1	8.5-8.1-7.8	10.5-10.0-9.6
		kW / kW	6.29	6.20	6.00
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~P250/1~17	P15~P250/1~21	P15~P250/1~26
Sound pressure le					
(measured in aned		dB <a>	46	48	54
Refrigerant piping	,			9.52 (3/8) Brazed	9.52 (3/8) Brazed
diameter		mm (in.)	9.52 (3/8) Brazed	(12.7 (1/2) Brazed, farthest length >= 90 m)	
	Gas pipe	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
on outdaining water	Trator non rato	L/min	96	96	96
		cfm	3.4	3.4	3.4
	Pressure drop	kPa	24	24	24
	Operating volume range	m³/h	3.0 ~ 7.2	3.0 ~ 7.2	3.0 ~ 7.2
Compressor	Туре		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	4.8	6.2	7.7
	Case heater	kW	_	_	_
External finish			Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets
External dimension	n HxWxD	mm	1.100 x 880 x 550	1.100 x 880 x 550	1.100 x 880 x 550
		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
Protection devices	High pressure pro	tection	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 (C	OMP.)	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant	Type x original ch	arge	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)
Net weight	, ,,	kg (lbs)	174 (384)	174 (384)	174 (384)
Heat exchanger		3 (/	plate type	plate type	plate type
3.	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/LS-G2 Header: CMY-Y104, 108, 1010-G	Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104, 108, 1010-G	Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104, 108, 1010-G

,	2 Nominal conditio	115			
		Indoor	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)		

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

^{*}Be sure to provide interlocking for the unit operation and water circuit.

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

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



^{*}The ambient relative humidity of the heat source unit needs to be kept below 80%.

*The heat source unit should not be installed at outdoor.

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

HEAT SOURCE UNIT NEW WY (Heat Pump) Series PQHY-P YLM-A



► Specifications

Model			PQHY-P350YLM-A	PQHY-P400YLM-A	PQHY-P450YLM-A
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)		kcal / h	35.000	40.000	45.000
*1 BTU / h		BTU / h	136.500	153.500	170.600
	Power input kW		7.14	8.03	9.29
	Current input	Α	12.0-11.4-11.0	13.5-12.8-12.4	15.6-14.8-14.3
	EER	kW / kW	5.60	5.60	5.38
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling	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	45.0	50.0	56.0
(Nominal)		kcal / h	40.000	45,000	50,000
,	*2	BTU / h	153.500	170.600	191.100
	Power input	kW	7.53	8.37	9.79
	Current input	Α	12.7-12.0-11.6	14.1-13.4-12.9	16.5-15.7-15.1
	COP	kW / kW	5.97	5.97	5.72
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~P250/1~30	P15~P250/1~34	P15~P250/1~39
Sound pressure le	evel				
(measured in ane		dB <a>	52	52	54
Refrigerant piping		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
Circulating water	Water flow rate	m ³ / h	7.20	7.20	7.20
		L/min	120	120	120
		cfm	4.2	4.2	4.2
	Pressure drop	kPa	44	44	44
	Operating volume range	m³/h	4.5 ~ 11.6	4.5 ~ 11.6	4.5 ~ 11.6
Compressor	Туре		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
·	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	9.5	10.7	11.6
	Case heater	kW	_	_	_
External finish			Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets
External dimension	n HxWxD	mm	1.450 x 880 x 550	1,450 x 880 x 550	1.450 x 880 x 550
		in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16
Protection devices	High pressure pro	otection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (C	OMP.)	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant Type x original charge		R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	
Net weight kg (lbs) Heat exchanger Water volume in plate		217 (479)	217 (479)	217 (479)	
		3 (3)	plate type	plate type	plate type
		L	5.0	5.0	5.0
	Water pressure Max.	MPa	2.0	2.0	2.0
Optional parts			Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104, 108, 1010-G	Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104, 108, 1010-G	Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104, 108, 1010-G

٠,	, 2 Normal conditions									
		Indoor	Indoor Water temperature Pipe length		Level difference					
	Cooling	27°CD.B./19°CW.B. (81°FD.B./66°FW.B.)	30°C (86°F)	7.5m (24-9/16ft.)	0m (0ft.)					
	Heating	20°CD.B. (68°FD.B.)	20°C (68°F)							

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

^{*}The ambient relative humidity of the heat source unit needs to be kept below 80%.

*The heat source unit should not be installed at outdoor.

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

^{*}Be sure to provide interlocking for the unit operation and water circuit.

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

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

HEAT SOURCE UNIT NEW WY (Heat Pump) Series PQHY-P YLM-A



► Specifications

Model			PQHY-P500YLM-A	PQHY-P550YLM-A	PQHY-P600YLM-A
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) kcal / h		50.000	55.000	60.000	
	*1	BTU / h	191.100	215.000	235,400
	Power input kW		11.17	12.54	14.49
	Current input	Α	18.8-17.9-17.2	21.1-20.1-19.3	24.4-23.2-22.3
	EER	kW / kW	5.01	5.02	4.76
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	63.0	69.0	76.5
(Nominal)		kcal / h	55.000	60.000	65,800
,	*2	BTU / h	215.000	235,400	261.000
	Power input	kW	11.43	12.27	14.51
	Current input	Α	19.2-18.3-17.6	20.7-19.6-18.9	24.4-23.2-22.4
	COP	kW / kW	5.51	5.62	5.27
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		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~P250/1~43	P15~P250/2~47	P15~P250/2~50
Sound pressure le	evel				
(measured in ane	choic room)	dB <a>	54	56.5	56.5
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
Circulating water	Water flow rate	m³/h	7.20	11.52	11.52
		L/min	120	192	192
		cfm	4.2	6.8	6.8
	Pressure drop	kPa	44	45	45
	Operating volume range	m³/h	4.5 ~ 11.6	6.0 ~ 14.4	6.0 ~ 14.4
Compressor	Туре		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter	Inverter
	Motor output kW		13.0	15.0	16.1
	Case heater	kW	_	0.045 (240 V)	0.045 (240 V)
External finish			Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets
External dimension	n HxWxD	mm	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550
		in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16
Protection devices	High pressure pro	otection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (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 charge		R410A x 6.0 kg (14 lbs)	R410A x 11.7 kg (26 lbs)	R410A x 11.7 kg (26 lbs)	
Net weight kg (lbs)		217 (479)	246 (543)	246 (543)	
Heat exchanger		. 3 ()	plate type	plate type	plate type
J	Water volume in plate	L	5.0	10.0	10.0
	Water pressure Max.	MPa	2.0	2.0	2.0
Optional parts			Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104, 108, 1010-G	Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104, 108, 1010-G	Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104, 108, 1010-G

,	2 Norminal Conditions									
ſ		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)	, , ,						

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

^{*}Be sure to provide interlocking for the unit operation and water circuit.

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

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



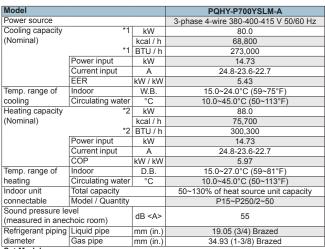
^{*}The ambient relative humidity of the heat source unit needs to be kept below 80%.

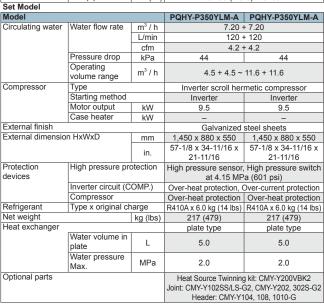
*The heat source unit should not be installed at outdoor.

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

HEAT SOURCE UNIT WY (Heat Pump) Series **PQHY-P YSLM-A**









٠,	, 2 Normal Conditions									
		Indoor	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)							

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



^{*}The ambient relative humidity of the heat source unit needs to be kept below 80%.

*The heat source unit should not be installed at outdoor.

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

^{*}Be sure to provide interlocking for the unit operation and water circuit. *Nominal condition *1,*2 are subject to JIS B8615-2.

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

HEAT SOURCE UNIT NEW WY (Heat Pump) Series PQHY-P YSLM-A



► Specifications

Model			PQHY-P750YSLM-A	PQHY-P800YSLM-A
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)		kcal / h	73,100	77,400
	*1	BTU / h	290,000	307,100
	Power input	kW	15.64	16.57
	Current input	Α	26.4-25.0-24.1	27.9-26.5-25.6
	EER	kW / kW	5.43	5.43
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)		kcal / h	81,700	86,000
	*2	BTU / h	324,100	341,200
	Power input	kW	15.90	16.75
	Current input	Α	26.8-25.4-24.5	28.2-26.8-25.8
	COP	kW / kW	5.97	5.97
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 level		dB <a>	55	55
(measured in ane	choic room)	ub <a>	ეე	55
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

Set Model						
Model			PQHY-P400YLM-A	PQHY-P350YLM-A	PQHY-P400YLM-A	PQHY-P400YLM-A
Circulating water Water flow rate m3 / h		m³/h	7.20 -	+ 7.20	7.20 -	+ 7.20
		L/min	120 -	+ 120	120 -	+ 120
		cfm	4.2 -	+ 4.2	4.2 -	+ 4.2
	Pressure drop	kPa	44	44	44	44
	Operating volume range	m³/h	4.5 + 4.5 ~	11.6 + 11.6	4.5 + 4.5 ~ 11.6 + 11.6	
Compressor	Туре		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	10.7	9.5	10.7	10.7
	Case heater	kW	-	-	-	_
External finish			Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets
External dimension	n HxWxD	mm	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550
		in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16
Protection	High pressure pro	otection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 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 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)
Net weight		kg (lbs)	217 (479)	217 (479)	217 (479)	217 (479)
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		Joint: CMY-Y102SS/LS-0	g kit: CMY-Y200VBK2 G2, CMY-Y202, 302S-G2 I04, 108, 1010-G	Joint: CMY-Y102SS/LS-0	g kit: CMY-Y200VBK2 G2, CMY-Y202, 302S-G2 104, 108, 1010-G	

٠,	, 2 Normal Conditions											
		Indoor	Water temperature	Pipe length	Level difference							
	Cooling	27°CD.B./19°CW.B. (81°FD.B./66°FW.B.)	30°C (86°F)	7.5m (24-9/16ft.)	0m (0ft.)							
	Heating	20°CD.B. (68°FD.B.)	20°C (68°F)									

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

^{*}Be sure to provide interlocking for the unit operation and water circuit.

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

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



^{*}The ambient relative humidity of the heat source unit needs to be kept below 80%.

*The heat source unit should not be installed at outdoor.

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

HEAT SOURCE UNIT NEW WY (Heat Pump) Series PQHY-P YSLM-A



► Specifications

Model			PQHY-P850YSLM-A	PQHY-P900YSLM-A
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)		kcal / h	82,600	86,900
	*1	BTU / h	327,600	344,600
	Power input	kW	18.03	19.38
	Current input	Α	30.4-28.9-27.8	32.7-31.0-29.9
	EER	kW / kW	5.32	5.21
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)		kcal / h	92,900	97,200
	*2	BTU / h	368,500	385,600
	Power input	kW	18.49	19.74
	Current input	Α	31.2-29.6-28.5	33.3-31.6-30.5
	COP	kW / kW	5.84	5.72
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
neating	Circulating water	°C	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)
ndoor 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		dB <a>	56	57
Refrigerant piping		mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed
diameter	Gas pipe	. ,		41.28 (1-5/8) Brazed
Set Model	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed	41.20 (1-3/6) Blazeu

Set Model						
Model			PQHY-P450YLM-A	PQHY-P400YLM-A	PQHY-P450YLM-A	PQHY-P450YLM-A
Circulating water	Water flow rate	m³/h	7.20	7.20 + 7.20		+ 7.20
		L/min	120	+ 120	120 -	+ 120
		cfm	4.2	+ 4.2	4.2 -	+ 4.2
	Pressure drop	kPa	44	44	44	44
	Operating volume range	m³/h	4.5 + 4.5 ~	11.6 + 11.6	4.5 + 4.5 ~ 11.6 + 11.6	
Compressor	Туре		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	11.6	10.7	11.6	11.6
	Case heater	kW	_	-	-	_
External finish			Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets
External dimension	n HxWxD	mm	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550
		in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16
Protection	High pressure pro	otection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 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	arge	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)
Net weight		kg (lbs)	217 (479)	217 (479)	217 (479)	217 (479)
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		Joint: CMY-Y102SS/LS-	g kit: CMY-Y200VBK2 G2, CMY-Y202, 302S-G2 I04, 108, 1010-G	Joint: CMY-Y102SS/LS-0	g kit: CMY-Y200VBK2 G2, CMY-Y202, 302S-G2 104, 108, 1010-G	

٠,	, 2 Normal Conditions											
		Indoor	Water temperature	Pipe length	Level difference							
	Cooling	27°CD.B./19°CW.B. (81°FD.B./66°FW.B.)	30°C (86°F)	7.5m (24-9/16ft.)	0m (0ft.)							
	Heating	20°CD.B. (68°FD.B.)	20°C (68°F)									

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

^{*}The ambient relative humidity of the heat source unit needs to be kept below 80%.

*The heat source unit should not be installed at outdoor.

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

^{*}Be sure to provide interlocking for the unit operation and water circuit.

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

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

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

▶ Specifications



Set name			PUHY-HP200YHM-A(-BS)	PUHY-HP250YHM-A(-BS)	PUHY-HP400	YSHM-A(-BS)	PUHY-HP500	YSHM-A(-BS)
Power source	e		, ,	3-phase 4-wire 380	0-400-415V 50/60	Hz		, ,
Cooling capacity *1 kW		kW	22.4	28.0	45	i.0	56	3.0
(Nominal)	*1	BTU/h	76,400	95,500	153	,500	191,100	
`	Power input	kW	6.40	9.06	12	.86	18	.16
	Current input	Α	10.8-10.2-9.8	15.2-14.5-14.0	21.7-20	0.6-19.8	30.6-29	9.1-28.0
	COP	kW/kW	3.50	3.09	3.	49	3.	08
Temp.	Indoor	W.B.		15 ~ 24°C	(59 ~ 75°F)			
range of cooling	Outdoor	D.B.		- 5 ~ 43°C ((23 ~ 109°F)			
Heating cap	acity *2	kW	25.0	31.5	50	0.0	63	3.0
(Nominal)	*2	BTU/h	85,300	107,500	170	,600	215	,000
`	Power input	kW	6.52	8.94	13	.35	18	.04
	Current input	Α	11.0-10.4-10.0	15.0-14.3-13.8	22.5-21	.4-20.6	30.4-28	3.9-27.8
	COP	kW/kW	3.83	3.52	3.	74	3.	49
Temp.	Indoor	D.B.		15 ~ 27°C	(59 ~ 81°F)			
range of heating	Outdoor	W.B.		-25 ~ 15.5°C	(-13 ~ 60°F)			
Indoor unit	Total capaci	itv		50 ~ 130% of out	door unit canacity	,		
	Model/Quar	-	P15~P250 / 1~17	P15 ~ P250 / 1 ~ 21			P15 ~ P2	50 / 1 ~ 43
Sound press	sure level	dB <a>	56	57	P15 ~ P250 / 1 ~ 34		P15 ~ P250 / 1 ~ 43	
(measured in a Diameter of	, , , , ,		ø12.7 (ø1/2) Brazed	ø12.7 (ø1/2) Brazed	-45 00 (=5(0) B====1		(0) December	
	Liquid pipe	mm(in.) mm(in.)	ø19.05 (ø3/4) Brazed	ø22.2 (ø7/8) Brazed	ø15.88 (ø5/8) Brazed ø28.58 (ø1-1/8) Brazed		ø15.88 (ø5/8) Brazed ø28.58 (ø1-1/8) Brazed	
refrigerant pipe	Gas pipe	mm(m.)	Ø19.03 (Ø3/4) Brazed	Ø22.2 (Ø1/6) Blazeu	,			
External finis	- 1-		December of the second standards of the second seco		PUHY-HP200YHM-A(-BS) PUHY-HP200YHM-A(-BS) PUHY-HP250YHM-A(-BS) PUHY-HP250YHM-A(-BS)			. ,
External linis	n T		Pre-coated galvanized steel snee	ets <munsell 1="" 5y="" 8="" or="" similar=""></munsell>			1,710 (without legs 1,650)	
External dimens	ion H x W x D	mm	1,710 (without legs 1,650) x 920 x 760	1,710 (without legs 1,650) x 920 x 760	x 920 x 760	x 920 x 760	x 920 x 760	x 920 x 760
External dimens	in.		67-3/8 (without legs 65)	67-3/8 (without legs 65)	67-3/8 (without legs 65)	67-3/8 (without legs 65)	67-3/8 (without legs 65)	67-3/8 (without legs 65)
			x 36-1/4 x 29-15/16	x 36-1/4 x 29-15/16	x 36-1/4 x 29-15/16	x 36-1/4 x 29-15/16	x 36-1/4 x 29-15/16	x 36-1/4 x 29-15/16
Net weight		kg(lbs)	220 (486)	220 (486)	220 (486)	220 (486)	220 (486)	220 (486)
Heat exchar				s fin & copper tube	 		s fin & copper tub	
	Туре			metic compressor		Inverter scroll her	metic compresso	r
Compressor	Starting me			erter			erter	
	Motor output	kW	5.3	6.7	5.3	5.3	6.7	6.7
*3		m³/min	225	225	225	225	225	225
	Air flow rate	L/s	3,750	3,750	3,750	3,750	3,750	3,750
FAN		cfm	7,945	7,945	7,945	7,945	7,945	7,945
	Type x Qua		Propeller fan x 1	Propeller fan x 1			Propeller fan x 1	
	Motor output		0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
	External station		0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)		, ,	0 Pa (0 mmH ₂ O)	
Protection	High pressure	<u> </u>	High pressure sensor, High press	\ \ \ /	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			,
devices	Inverter circuit (0	,	Over-heat protection, (<u> </u>	Over-		Over-current prot	ection
Compresso				protection	D4404 0 01 400 !!		protection	D4404 0.01 (00.11)
Refrigerant	Type x Origin		R410A x 9.0kg (20 lbs)	R410A x 9.0kg (20 lbs)		*	R410A x 9.0kg (20 lbs)	* , ,
Pipe between	Liquid pipe	. ,	-	-	` '	, ,	ø9.52 (ø3/8) Flare	` '
unit distributor	Gas pipe	mm(in.)	-	-	<u> </u>	. ,	ø22.2 (ø7/8) Brazed	. , ,
Optional parts			Joint : CMY-Y Header : CMY-Y	-Y102SS-G2 104/108/1010-G		: CMY-Y102SS/I	kit : CMY-Y100VE _S-G2, CMY-Y20. Y104/108/1010-G	2S-G2



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

^{*3} External static pressure option is available (30Pa, 60Pa / $3.1 mmH_2O$, $6.1 mmH_2O$).

^{*}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)





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)	*1	BTU / h	76,400	95,500	
,	Power input	kW	5.95	7.93	
	Current input	Α	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)	
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	25.0	31.5	
(Nominal)	*2	BTU / h	85,300	107,500	
,	Power input	kW	6.54	8.65	
	Current input	Α	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		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	
	Air flow rate	m³/min	185	185	
		L/s	3.083	3.083	
		cfm	6.532	6.532	
	Driving mechanism		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	
	Motor output kW		0.92 x 1	0.92 x 1	
*4	External static press.		0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	
	Starting method		Inverter	Inverter	
	Motor output	kW	5.6	6.9	
	Case heater	kW	-	-	
External finish			Pre-coated galvanized steel sheets	Pre-coated galvanized steel sheets	
			(+powder coating for -BS type)	(+powder coating for -BS type)	
			<munsell 1="" 5y="" 8="" or="" similar=""></munsell>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>	
External dimension	n HxWxD	mm	1,710 (1,650 without legs) x 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 pre	otection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
devices	Inverter circuit (CO	MP./FAN)	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	-	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 BC controller: CMB-P104,105,106,108,1010,1013,1016V-G1 Main BC controller: CMB-P108,1010,1013,1016V-GA1 Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1	Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1 BC controller: CMB-P104,105,106,108,1010,1013,1016V-G1 Main BC controller: CMB-P108,1010,1013,1016V-GA1 Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1	

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.



PURY-P YLM-A(-BS)





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
(11011111111)	Power input	kW	9.82	12.69
	Current input	A	16.5-15.7-15.1	21.4-20.3-19.6
	EER	kW / kW	3.41	3.15
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)	-5.0~46.0°C (23~115°F)
Heating capacity	*2		37.5	45.0
(Nominal)		BTU / h	128.000	153.500
(11011111111)	Power input	kW	10.77	12.97
	Current input	A	18.1-17.2-16.6	21.8-20.8-20.0
	COP	kW / kW	3.48	3.46
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit	Total capacity	**	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		1		
(measured in aned		dB <a>	62.5	62.5
Sound power level				
(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	111111 (111.)	Propeller fan x 1	Propeller fan x 1
IAN	Air flow rate m³/min		230	230
	All llow 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.		0.92 X 1 0 Pa (0 mmH₂O)	0.92 X 1 0 Pa (0 mmH₂O)
Compressor	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
Compressor	Starting method		Inverter	Inverter
	Motor output	kW	8.1	10.5
	Case heater	kW	0.1	10.3
External finish	OddC Heater	IX V	Pre-coated galvanized steel sheets	Pre-coated galvanized steel sheets
LAIGITIAI IIIIISII			(+powder coating for -BS type)	(+powder coating for -BS type)
			<munsell 1="" 5y="" 8="" or="" similar=""></munsell>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>
External dimension	n HxWxD	mm	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,220 x 740
		in.	67-3/8 (65 without legs) x 48-1/16 x 29-3/16	67-3/8 (65 without legs) x 48-1/16 x 29-3/16
Protection	High pressure pro			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
devices	Inverter circuit (CO		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	, , , , , o , , o , , g , , d i o i	kg (lbs)	248 (547)	248 (547)
Heat exchanger		19 (1.23)	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-P108,1010,1013,1016V-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

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 -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)





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 / h	170,600	191,100	215,000
	Power input	kW	13.08	15.01	17.30
	Current input	Α	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 leve (measured in aned		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
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					

didiffictor	Low process		20.00 (1.1	70) Brazoa	20.00 (1.1	70) B. azoa	20.00 (ro) Brazoa
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	sm	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	rect-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
*4	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.6	5.6	5.6	6.9	6.9	6.9
	Case heater	kW	-	-	-	-	-	-
External finish			Pre-coated galvanized steel sheets		Pre-coated galvanized steel sheets			nized steel sheets
			(+powder coating for -BS type)		(+powder coating for -BS type)		(+powder coating for -BS type)	
			<munsell 5y<="" td=""><td>' 8/1 or similar></td><td colspan="2"><munsell 1="" 5y="" 8="" or="" similar=""></munsell></td><td><munsell 5y<="" td=""><td>/ 8/1 or similar></td></munsell></td></munsell>	' 8/1 or similar>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>		<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
			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)			
		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 pr	otection		, High pressure switch	at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
devices				a (601 psi)				
	Inverter circuit (CO	MP./FAN)		Over-current protection		Over-current 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	narge			R410A x 9.5 kg (21 lbs)	R410A x 9.5 kg (21 lbs)	R410A x 9.5 kg (21 lbs)	R410A x 9.5 kg (21 lbs)
Net weight		kg (lbs)	205 (452)	205 (452)	205 (452)	205 (452)	205 (452)	205 (452)
Heat exchanger			s fin & copper tube		s fin & copper tube		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				it: CMY-R100VBK-A		it: CMY-R100VBK-A		it: CMY-R100VBK-A
				Y-Y102L-G2,CMY-R160-J1	Joint: CMY-Y102S-G2,CM			Y-Y102L-G2,CMY-R160-J1
					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.



OUTDOOR UNIT R2 Series 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 / h	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)		dB <a>	64.5	65.5	65.5
Sound power leve (measured in aned			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			,		

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	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 pre	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	6.9	8.1	8.1	8.1	8.1	10.5
	Case heater	kW	_	_	_	-	_	_
External finish			Pre-coated galvar			nized steel sheets		nized steel sheets
			(+powder coating for -BS type)		(+powder coating for -BS type)		(+powder coating for -BS type)	
			<munsell 5y<="" td=""><td></td><td><munsell 5y<="" td=""><td></td><td><munsell 5y<="" td=""><td></td></munsell></td></munsell></td></munsell>		<munsell 5y<="" td=""><td></td><td><munsell 5y<="" td=""><td></td></munsell></td></munsell>		<munsell 5y<="" td=""><td></td></munsell>	
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 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 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	otection			High pressure sensor, High pressure switch			
devices			at 4.15 MP		at 4.15 MP		at 4.15 MP	
	Inverter circuit (CO	MP./FAN)	Over-heat protection, (Over-heat protection, (Over-heat protection, (
	Compressor		Over-heat protection			Over-heat protection		
	Fan motor			t protection		nt protection		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 cross			s fin & copper tube		s fin & copper 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)	19.05 (3/4) Brazed	19.05 (3/4) Brazed
and distributor	Low pressure	mm (in.)	22.2 (7/8) Brazed	<u> </u>	22.2 (7/8) Brazed		22.2 (7/8) Brazed	
Optional parts	Optional parts		Outdoor Twinning k			it: CMY-R100VBK2		tit: CMY-R100VBK2
			Joint: CMY-Y102SS-G2,CM		Joint: CMY-Y102SS-G2,CM			Y-Y102LS-G2,CMY-R160-J1
			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 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.



PURY-P YSLM-A(-BS)





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 / h	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 le (measured in aned		dB <a>	65.5	65.5	65.5
Sound power leve (measured in aned		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 pre	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	10.5	10.5	10.5	10.9	10.9	10.9
	Case heater	kW	_	-	-	-	-	-
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>		Pre-coated galvar (+powder coatir <munsell 5y<="" td=""><td></td><td>Pre-coated galvar (+powder coatin <munsell 5y<="" td=""><td>ng for -BS type)</td></munsell></td></munsell>		Pre-coated galvar (+powder coatin <munsell 5y<="" td=""><td>ng for -BS type)</td></munsell>	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 1,220 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	
Protection devices	High pressure pro	otection	High pressure sensor, at 4.15 MP	High pressure switch (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (CO	MP./FAN)	Over-heat protection, (Over-current protection	Over-heat protection, (Over-current protection	Over-heat protection, 0	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	t protection
Refrigerant	Type x original ch	arge	R410A x 10.3 kg (23 lbs)	R410A x 10.3 kg (23 lbs)	R410A x 10.3 kg (23 lbs)	R410A x 10.3 kg (23 lbs)	R410A x 10.3 kg (23 lbs)	R410A x 10.3 kg (23 lbs)
Net weight		kg (lbs)	248 (547)	248 (547)	248 (547)	246 (543)	246 (543)	246 (543)
Heat exchanger		Salt-resistant cross	s fin & copper tube	Salt-resistant cross	s fin & copper tube	Salt-resistant cross	s fin & copper tube	
Pipe between unit	High pressure	mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed
and distributor	Low pressure	mm (in.)	28.58 (1-1/8) Brazed	-	28.58 (1-1/8) Brazed	-	28.58 (1-1/8) Brazed	-
Optional parts			Outdoor Twinning k	it: CMY-R200VBK2	Outdoor Twinning k	tit: CMY-R200VBK2	Outdoor Twinning k	it: CMY-R200VBK2
			Joint: CMY-Y102SS-G2,CM	Y-Y102LS-G2,CMY-R160-J1	Joint: CMY-Y102SS-G2,CM	Y-Y102LS-G2,CMY-R160-J1	Joint: CMY-Y102SS-G2,CM	Y-Y102LS-G2,CMY-R160-J1
			Main BC controller:			CMB-P1016V-HA1	Main BC controller:	
			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.



OUTDOOR UNIT R2 Series 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)
ndoor 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 (measured in anec	choic room) dB <a>		65.5	65.5
Sound power level (measured in aned			89	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

Set Model			(
Model			PURY-P400YLM-A (-BS)	PURY-P450YLM-A (-BS)	PURY-P450YLM-A (-BS)	PURY-P450YLM-A (-BS)	
FAN	Tune v Oventity			Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	
FAIN	Type x Quantity Air flow rate	m³/min	Propeller fan x 1 230	320	320	320	
	Air now rate						
		L/s	3,833	5,333	5,333	5,333	
	D	cfm	8,121	11,299	11,299	11,299	
	Driving mechanis			ect-driven by motor		ect-driven by motor	
	Motor output	kW	0.92 x 1	0.92 x 2	0.92 x 2	0.92 x 2	
	External static pr	ess.	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	
Compressor	Type x Quantity		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				nized steel sheets		nized steel sheets	
				ng for -BS type)	(+powder coating for -BS type)		
			<munsell 5y<="" td=""><td>'8/1 or similar></td><td colspan="3"><munsell 1="" 5y="" 8="" or="" similar=""></munsell></td></munsell>	'8/1 or similar>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>		
External dimension	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)	
		111111	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)	
		111.	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	otection	High pressure sensor, High press	sure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
devices	Inverter circuit (CC	MP./FAN)	Over-heat protection, (Over-current protection	Over-heat protection, Over-current protection		
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	
	Fan motor		Over-current protection	Over-current protection	Over-current protection	Over-current protection	
Refrigerant	Type x original c	harge	R410A x 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		Salt-resistant cross	s fin & copper tube	Salt-resistant cros	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	<u> </u>	
Optional parts			Outdoor Twinning ki	t: CMY-R200XLVBK	Outdoor Twinning ki	t: CMY-R200XLVBK	
			Joint: CMY-Y102SS-G2,CM			Y-Y102LS-G2,CMY-R160-J1	
			Main BC controller:		Main BC controller:		
			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.



OUTDOOR UNIT R2 Series - High COP PURY-EP YLM-A1(-BS)



► Specifications

Model		PURY-EP200YLM-A (-BS)	PURY-EP250YLM-A (-BS)	PURY-EP300YLM-A (-BS)	
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity *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>	F0	60	62.5
(measured in aned		gB <a>	59	60	62.5
Sound power level	ĺ	dB <a>	82.5	83.5	86
(measured in aned	choic room)	ub \A>	62.3		
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 mechanism		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
	Motor output kW		0.92 x 1	0.92 x 1	0.92 x 1
*4	External static press.		0 Pa (0 mmH ₂ O)	0 Pa (0 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 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
	I	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		MAD /EAA!	at 4.15 MPa (601 psi)	at 4.15 MPa (601 psi)	at 4.15 MPa (601 psi)
	Inverter circuit (CO	IVIP./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
Defriesses	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 BC controller: CMB-P104.105.106.108.1010.1013.1016V-G1	Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1 BC controller: CMB-P104.105.106.108.1010.1013.1016V-G1	Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1 BC controller: CMB-P104.105.106.108.1010.1013.1016V-G1
			Main BC controller: CMB-P104,105,106,106,1010,1013,1016V-G1	Main BC controller: CMB-P104,105,106,106,1010,1013,1016V-G1	Main BC controller: CMB-P104,105,106,1010,1013,1016V-GA1
				Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1	
			OUD DO CONTROLLO . CIVID-1: 104, 100 V-CD 1, CIVID-1: 10 10 V-MD 1	Out DO CONTROLLO CIVIDER 104, 100 VEGD 1, ONIDER 10 10 VERDE	Out DO CONTROLLE OND TO 104, 100 Y-OD 1, OND-F 10 10 Y-DD 1



٠,	2 Nominal conditio	113				
		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.



OUTDOOR UNIT R2 Series - High COP PURY-EP YLM-A1(-BS)



► Specifications

Node PURY-EP360YLM-A (-85)	V 50/60 Hz
Cooling capacity	PF)
Nominal Power input	
Power input	
Current input	
EER	
Temp. range of cooling	
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°F)	
Heating capacity	
Nominal Power input	
Power input	
Current input	
COP	
Temp. range of heating	
heating *3 Outdoor W.B. -20.0~15.5°C (-4~60°F) -20.0~15.5°C	F)
Total capacity	
connectable Model / Quantity P15~P250/1~35 P15~P250/1~40 P15~P250/1~45 Sound pressure level (measured in anechoic room) dB <a> 62.5 62.5 62.5 Sound power level (measured in anechoic room) dB <a> 86 86 86 Refrigerant piping High pressure mm (in.) 19.05 (3/4) Brazed 22.2 (7/8) Brazed 22.2 (7/8) Brazed 22.2 (7/8) Brazed Giameter Low pressure mm (in.) 28.58 (1-1/8) Brazed 28.58 (
Sound pressure level (measured in anechoic room) dB <a> 62.5 62.5 62.5 62.5 62.5 	араспу
Maximum Maxi	
Sound power level (measured in anechoic room) dB <a< td=""><td></td></a<>	
Refrigerant piping diameter High pressure mm (in.) 19.05 (3/4) Brazed 22.2 (7/8) Brazed 22.2 (
Refrigerant piping High pressure mm (in.) 19.05 (3/4) Brazed 22.2 (7/8) Brazed 28.58 (1-1/8) B	
Diving mechanism Inverter-control, Direct-driven by motor Inve	
FAN Type x Quantity Propeller fan x 1 Propeller fan x 2 Propeller fan x 2 Air flow rate m³/min 230 320 320 L/s 3,833 5,333 5,333 5,333 cfm 8,121 11,299 11,299 11,299 Driving mechanism Motor output kW 0,92 x 1 0,92 x 2 0,92 x 2 *4 External static press. 0 Pa (0 mmH ₂ O) 0 Pa (0 mmH ₂ O) 0 Pa (0 mmH ₂ O) Compressor Type x Quantity Inverter scroll hermetic compressor Inverter scroll hermetic compressor Inverter scroll hermetic compressor Inverter scroll hermetic compressor Motor output kW 10.5 10.9 12.4 12.4 Case heater kW - - - External finish Pre-coated galvanized steel sheets Pre-coated galvanized steel sheets	al
Air flow rate	3
L/s 3,833 5,333 5,333 5,333 11,299 11,299 11,299 11,299 11,299 11,299 11,299 11,299 11,299 11,299 11,299 12,40 12,	
Driving mechanism Inverter-control, Direct-driven by motor Inv	
Driving mechanism Inverter-control, Direct-driven by motor Inverter-control, Direct-driven by motor Motor output kW 0.92 x 1 0.92 x 2 0.92 x 2 0.92 x 2 *4 External static press. O Pa (0 mmH₂O) O Pa (0	
Motor output kW 0.92 x 1 0.92 x 2 0.92 x 2	
*4 External static press.	1 by motor
Type x Quantity	
Starting method Inverter Inverter Inverter Inverter Inverter Motor output kW 10.5 10.9 12.4 Case heater kW	
Motor output kW 10.5 10.9 12.4 Case heater kW External finish Pre-coated galvanized steel sheets Pre-coated galvanized steel sheets Pre-coated galvanized steel sheets	ipressor
Case heater kW	
External finish Pre-coated galvanized steel sheets Pre-coated galvanized steel sheets Pre-coated galvanized steel	
	1 -14-
MUNSELL 5Y 8/1 or similar> < MUNSELL 5Y 8/1 or similar> < MUNSELL 5Y 8/1 or similar>	
External dimension HxWxD mm 1,710 (1,650 without legs) x 1,220 x 740 1,710 (1,650 without legs) x 1,750 x 740 1,710 (1,650 without legs) x 68-15/16 x 29-3/16 67-3/8 (65 without legs) x 48-1/16 x 29-3/16 67-3/8 (65 without legs) x 68-15/16 x 29-3/16 67-	
Protection High pressure protection High pressure sensor, High pre	
right pressure protection and pressure sensor, high pressure senso	
Inverter circuit (COMP/FAN) Over-heat protection, Over-current protection over-heat protectio	
Compressor Over-heat protection	
Fan motor Over-current protection Over-current protection Over-current protection	
Refrigerant Type x original charge R410A x 9.3 kg (21 lbs) R410A x 11.8 kg (27 lbs) R410A x 11.8 kg (27 lbs)	
Reingeralt Type Volginar Ularge R410A 5.3 Ng (21 lbs) R410A 11.0 Ng (27 lbs) R410A 11.0 Ng	00)
Heat exchanger Salt-resistant cross fin & aluminium tube Salt-resistant cross fin & aluminium tube Salt-resistant cross fin & aluminium tube	
ried exchanger Sain-resistant cross lin a autominion tube Sain-resistant cross lin autominion tube Sain-resistant cros	inium tubo
RC controller: CMR P104 105 106 109 1010 1013 1016V G1 Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1 Joint: CMY-Y102SS-G2,CMY-Y102LS-G2	ninium tube
Main BC controller: CMB_P108_1010_1013_1016V_CA1 Main BC controller: CMB-P108_1010_1013_1016V-GA1 Main BC controller: CMB-P108_1010_1	2,CMY-R160-J
wall BC controller: CMB-P104,108-GB1,CMB-P1016V-HB1 Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1 Sub BC controller: CMB-P104,108V-GB1,CMB-P104,10	2,CMY-R160-J 013,1016V-GA



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

^{*4} External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O), 6.1mmH₂O).
*Nominal condition *1,*2 are subject to JIS B8615-1.
*Due to continuing improvement, above specification may be subject to change without notice.



OUTDOOR UNIT R2 Series - High COP PURY-EP YSLM-A1(-BS)



► Specifications

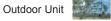
Model			PURY-EP500YSLM-A (-BS)	PURY-EP550YSLM-A (-BS)	PURY-EP600YSLM-A (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	56.0	63.0	69.0
(Nominal)	*1	BTU / h	191,100	215,000	235,400
	Power input	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 Current input		kW	16.93	18.44	20.34
		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 aned		dB <a>	63	64.5	65.5
Sound power level 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		

diameter	Low pressure	1111111 (1111.)	20.50 (1-1	70) Diazeu	20.50 (1-1	70) DIAZCU	20.50 (1-1	70) Diazeu
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	sm	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	rect-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
*4	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	6.9	6.9	6.9	8.1	8.1	8.1
	Case heater	kW	-	-	-	-	-	_
External finish			Pre-coated galva	nized steel sheets	Pre-coated galva	nized steel sheets	Pre-coated galva	nized steel sheets
			(+powder coating for -BS type)		(+powder coating for -BS type)		(+powder coating for -BS type)	
			<munsell 5y<="" td=""><td>' 8/1 or similar></td><td><munsell 5y<="" td=""><td>' 8/1 or similar></td><td><munsell 5y<="" td=""><td>/ 8/1 or similar></td></munsell></td></munsell></td></munsell>	' 8/1 or similar>	<munsell 5y<="" td=""><td>' 8/1 or similar></td><td><munsell 5y<="" td=""><td>/ 8/1 or similar></td></munsell></td></munsell>	' 8/1 or similar>	<munsell 5y<="" td=""><td>/ 8/1 or similar></td></munsell>	/ 8/1 or similar>
External dimension	n HxWxD	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 920 x 740	legs) x 920 x 740	legs) x 1,220 x 740	legs) x 1,220 x 740	
		in.			67-3/8 (65 without legs)			
			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 sensor			, High pressure switch
devices				a (601 psi)	at 4.15 MP			Pa (601 psi)
	Inverter circuit (CC	MP./FAN)	Over-heat protection,		Over-heat protection, (Over-current protection
	Compressor			Over-heat protection		Over-heat protection		Over-heat protection
Fan motor				nt protection	Over-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 (I		kg (lbs)	218 (481)	218 (481)	218 (481)	260 (574)	260 (574)	260 (574)
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.)	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			Outdoor Twinning kit	t: CMY-ER100VBK-A	Outdoor Twinning k	it: CMY-ER200VBK	Outdoor Twinning k	it: CMY-ER200VBK
			Joint: CMY-Y102S-G2,CM			Y-Y102LS-G2,CMY-R160-J1		Y-Y102LS-G2,CMY-R160-J1
					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



,	2 Nominal conditio	113			
		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 / 3.1mmHzO, 6.1mmHzO). *Nominal condition *1,*2 are subject to JIS B8615-1.

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

OUTDOOR UNIT R2 Series - High COP PURY-EP YSLM-A1(-BS)



► Specifications

Model			PURY-EP650YSLM-A (-BS)	PURY-EP700YSLM-A (-BS)	PURY-EP750YSLM-A (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*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 '		kW	81.5	88.0	95.0
(Nominal)	*2 BTU / h		278,100	300,300	324,100
Power input Current input		kW	22.51	25.28	26.38
		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 aned		dB <a>	65.5	65.5	65.5
Sound power level (measured in anec		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	28.58 (1-1/8) Brazed 34.93 (1-3/8) Brazed	

alamotor	zon procedio		20.00 (1.1	ro, Brazoa	0 1.00 (1.0	o) Brazoa	01.00(1.0	(O) Brazoa
Set Model								
Model			PURY-EP300YLM-A (-BS)	PURY-EP350YLM-A (-BS)	PURY-EP350YLM-A (-BS)	PURY-EP350YLM-A (-BS)	PURY-EP350YLM-A (-BS)	PURY-EP400YLM-A (-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2
	Air flow rate	m³/min	230	230	230	230	230	320
		L/s	3,833	3,833	3,833	3,833	3,833	5,333
		cfm	8,121	8,121	8,121	8,121	8,121	11,299
	Driving 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
*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	8.1	10.5	10.5	10.5	10.5	10.9
	Case heater	kW	-	-	-	-	-	-
External finish				nized steel sheets		nized steel sheets		nized steel sheets
			(+powder coating for -BS type)		(+powder coating for -BS type)		(+powder coating for -BS type)	
				' 8/1 or similar>		′ 8/1 or similar>		' 8/1 or similar>
External 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
		in.			67-3/8 (65 without legs)			
	Ť		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 pr	otection		High pressure switch		High pressure switch		High pressure switch
devices	Inverter circuit (COMP./FAN)			² a (601 psi)		Pa (601 psi)		Pa (601 psi)
		WP./FAN)		Over-current protection		Over-current protection		Over-current protection
	Compressor			Over-heat protection		Over-heat protection		Over-heat protection
D (: .	Fan motor			nt protection		nt protection		nt protection
Refrigerant	Type x original cl				R410A x 9.3 kg (21 lbs)			
Net weight		kg (lbs)	260 (574)	260 (574)	260 (574)	260 (574)	260 (574)	338 (746)
Heat exchanger	Le i	()		fin & aluminium tube		fin & aluminium tube		fin & aluminium tube
Pipe between unit	<u> </u>	mm (in.)	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
	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



٠,	2 Nominal conditio	113			
		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.



OUTDOOR UNIT R2 Series - High COP PURY-EP YSLM-A1(-BS)



► Specifications

Model			PURY-EP800YSLM-A (-BS)	PURY-EP850YSLM-A (-BS)	PURY-EP900YSLM-A (-BS)	
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity	*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		dB <a>	65.5	65.5	65.5	
Sound power leve (measured in anec			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 mechanis	m	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2
*4	External static pre	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	10.9	10.9	10.9	12.4	12.4	12.4
	Case heater	kW	_	_	-	-	_	_
External finish				nized steel sheets		nized steel sheets		nized steel sheets
				ng 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 1,750 x 740	legs) x 1,750 x 740	legs) x 1,750 x 740	0,	legs) x 1,750 x 740	legs) x 1,750 x 740
		in.	67-3/8 (65 without legs)		67-3/8 (65 without legs)			67-3/8 (65 without legs)
	T		x 68-15/16 x 29-3/16	x 68-15/16 x 29-3/16	x 68-15/16 x 29-3/16	x 68-15/16 x 29-3/16	x 68-15/16 x 29-3/16	x 68-15/16 x 29-3/16
Protection	High pressure pro	otection	High pressure sensor, High pressure switch 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)	
devices		1D (EAAL)						
	Inverter circuit (CO	MP./FAN)	Over-heat protection, (Over-current protection		Over-current protection
	Compressor			Over-heat protection		Over-heat protection		Over-heat protection
5 (: (Fan motor			nt protection	Over-currer			nt protection
Refrigerant	Type x original ch		R410A x 11.8 kg (27 lbs)			R410A x 11.8 kg (27 lbs)		
Net weight		kg (lbs)	338 (746) Salt-resistant cross	338 (746)	338 (746) Salt-resistant cross	338 (746)	338 (746) Salt-resistant cross	338 (746)
Heat exchanger Pipe between unit	I Cala annual con	(:- \						
		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 Optional parts	Low pressure	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed	
Optional parts			Joint: CMY-Y102SS-G2.CM	it: CMY-ER200VBK	Joint: CMY-Y102SS-G2.CM	kit: CMY-ER200VBK		it: CMY-ER200VBK Y-Y102LS-G2.CMY-R160-J1
			Main BC controller:			Y-Y102LS-G2,CMY-R160-J1 CMB-P1016V-HA1	Main BC controller:	
			Sub BC controller: CMB-P104		Sub BC controller: CMB-P104		Sub BC controller: CMB-P104	
			J July DC CONTROLLER, CIVID-P 104	, 100V-GD 1, GWID-F 10 10V-FB1	J Gub BC CONTROLLER, CIVIB-P 104	,100V-001,0WID-F 1010V-FIB1	J Gub BC COITHUIRE, CIVIB-P 104	, 100V-001,0WD-F1010V-FB1



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



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

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

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





Model			PQRY-P200YLM-A	PQRY-P250YLM-A	PQRY-P300YLM-A
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)		kcal / h	20,000	25.000	30,000
*1 BTU / h		76.400	95.500	114.300	
	Power input	kW	3.71	4.90	6.04
	Current input	Α	6.2-5.9-5.7	8.2-7.8-7.5	10.1-9.6-9.3
	EER	kW / kW	6.03	5.71	5.54
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)	_	kcal / h	21,500	27,100	32,300
(*2	BTU / h	85,300	107,500	128,000
	Power input	kW	3.97	5.08	6.25
	Current input	A	6.7-6.3-6.1	8.5-8.1-7.8	10.5-10.0-9.6
	COP	kW / kW	6.29	6.20	6.00
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			F 15~F250/1~20	F15~F250/1~25	F 15~F250/1~30
(measured in ane		dB <a>	46	48	54
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
Circulating water	Water flow rate	m³/h	5.76	5.76	5.76
3		L/min	96	96	96
		cfm	3.4	3.4	3.4
	Pressure drop	kPa	24	24	24
	Operating volume range	m³/h	3.0 ~ 7.2	3.0 ~ 7.2	3.0 ~ 7.2
Compressor	Туре	,	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	4.8	6.2	7.7
	Case heater	kW	-	-	-
External finish		,	Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets
External dimensio	n HxWxD	mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550
		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
Protection devices	High pressure pro		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	at 4.15 MPa (601 psi)
	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 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)
Net weight		kg (lbs)	172 (380)	172 (380)	172 (380)
Heat exchanger			plate type	plate type	plate type
	Water volume in plate	L	5.0	5.0	5.0
	Water pressure Max.	MPa	2.0	2.0	2.0
Optional parts		Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 BC controller: CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1	Joint: CMY-Y102SSILS-G2, CMY-R160-J1 BC controller: CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1	Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 BC controller: CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1	

,	2 Nominal conditio	115			
		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)		

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

^{*}Be sure to provide interlocking for the unit operation and water circuit.

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

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



^{*}The ambient relative humidity of the heat source unit needs to be kept below 80%.

*The heat source unit should not be installed at outdoor.

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

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





► Specifications

Model			PQRY-P350YLM-A	PQRY-P400YLM-A	PQRY-P450YLM-A
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) kcal / h		35,000	40.000	45,000	
*1 BTU/h		136.500	153.500	170.600	
	Power input	kW	7.14	8.03	9.29
	Current input	Α	12.0-11.4-11.0	13.5-12.8-12.4	15.6-14.8-14.3
	EER	kW / kW	5.60	5.60	5.38
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling	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	45.0	50.0	56.0
(Nominal)		kcal / h	40,000	45,000	50,000
()	*2	BTU / h	153,500	170.600	191.100
	Power input	kW	7.53	8.37	9.79
	Current input	A	12.7-12.0-11.6	14.1-13.4-12.9	16.5-15.7-15.1
	COP	kW / kW	5.97	5.97	5.72
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	U	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~P250/1~35	P15~P250/1~40	P15~P250/1~45
Sound pressure le			F 13°-F 230/1°-33	F 13 - F 230/1 40	F 15 - F 250/ 1 - 45
(measured in aned		dB <a>	52	52	54
Refrigerant piping	High pressure	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed
diameter	Low pressure	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Circulating water	Water flow rate	m³/h	7.20	7.20	7.20
		L/min	120	120	120
		cfm	4.2	4.2	4.2
	Pressure drop	kPa	44	44	44
	Operating volume range	m³/h	4.5 ~ 11.6	4.5 ~ 11.6	4.5 ~ 11.6
Compressor	Туре		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	9.5	10.7	11.6
	Case heater	kW	-	_	_
External finish			Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets
External dimensio	n HxWxD	mm	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550
		in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16
Protection devices	High pressure pro	otection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (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	arge	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)
Net weight kg (lbs)		216 (477)	216 (477)	216 (477)	
Heat exchanger		plate type	plate type	plate type	
	Water volume in plate	L	5.0	5.0	5.0
	Water pressure Max.	MPa	2.0	2.0	2.0
Optional parts			Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 BC controller: CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1	Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1	Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1

٠,	2 Normina conditio	115			
		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)		

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



^{*}The ambient relative humidity of the heat source unit needs to be kept below 80%.

*The heat source unit should not be installed at outdoor.

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

^{*}Be sure to provide interlocking for the unit operation and water circuit.

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

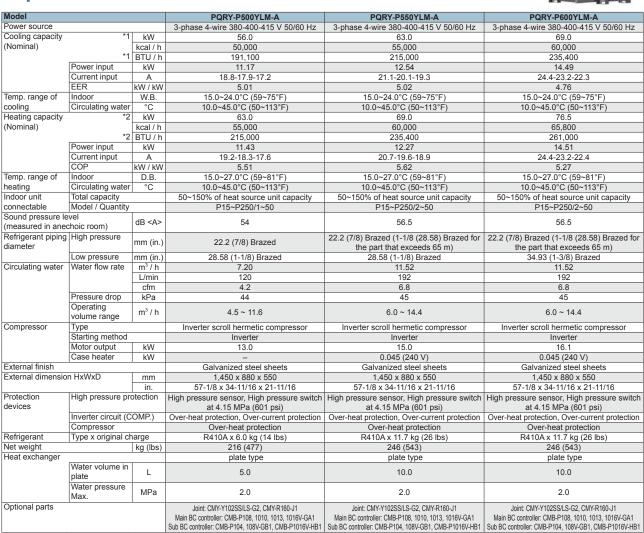
*Due to continuing improvement, above specification may be subject to change without notice.

HEAT SOURCE UNIT WR2 (Heat Recovery) Series



PQRY-P YLM-A

► Specifications



٠,	2 Normina conditio	115			
		Indoor	Water temperature Pipe length		Level difference
	Cooling	27°CD.B./19°CW.B. (81°FD.B./66°FW.B.)	30°C (86°F)	7.5m (24-9/16ft.)	0m (0ft.)
	Heating	20°CD.B. (68°FD.B.)	20°C (68°F)		

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

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



^{*}The ambient relative humidity of the heat source unit needs to be kept below 80% *The heat source unit should not be installed at outdoor.

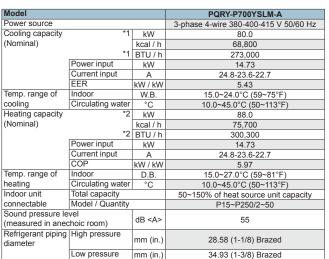
^{*}Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

^{*}Be sure to provide interlocking for the unit operation and water circuit. *Nominal condition *1,*2 are subject to JIS B8615-2.

HEAT SOURCE UNIT WR2 (Heat Recovery) Series

PQRY-P YSLM-A





Set Model					
Model		PQRY-P350YLM-A	PQRY-P350YLM-A		
Circulating water	Water flow rate	m³/h	7.20 -	+ 7.20	
		L/min	120 -	+ 120	
		cfm	4.2 -	+ 4.2	
	Pressure drop	kPa	44	44	
	Operating volume range	m³/h	4.5 + 4.5 ~	11.6 + 11.6	
Compressor	Туре		Inverter scroll her	metic compressor	
	Starting method		Inverter	Inverter	
	Motor output	kW	9.5	9.5	
	Case heater	kW	-	_	
External finish			Galvanized	steel sheets	
External dimensio	n HxWxD	mm	1,450 x 880 x 550	1,450 x 880 x 550	
		in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	
Protection devices	High pressure pro	otection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (C	OMP.)	Over-heat protection, Over-current protection		
	Compressor		Over-heat protection	Over-heat protection	
Refrigerant	Type x original ch	narge	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	
Net weight		kg (lbs)	216 (477)	216 (477)	
Heat exchanger			plate type	plate type	
	Water volume in plate	L	5.0	5.0	
	Water pressure Max.	MPa	2.0	2.0	
Optional parts			Joint: CMY-Y102SS/I Main BC controller:		





٠,	2 Normina conditio	115			
		Indoor	Water temperature Pipe length		Level difference
	Cooling	27°CD.B./19°CW.B. (81°FD.B./66°FW.B.)	30°C (86°F)	7.5m (24-9/16ft.)	0m (0ft.)
	Heating	20°CD.B. (68°FD.B.)	20°C (68°F)		

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

^{*}The ambient relative humidity of the heat source unit needs to be kept below 80%.

*The heat source unit should not be installed at outdoor.

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

^{*}Be sure to provide interlocking for the unit operation and water circuit.

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

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

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



► Specifications

Model			PQRY-P750YSLM-A	PQRY-P800YSLM-A
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)		kcal / h	73,100	77,400
	*1	BTU / h	290,000	307,100
	Power input	kW	15.64	16.57
	Current input	Α	26.4-25.0-24.1	27.9-26.5-25.6
	EER	kW / kW	5.43	5.43
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)		kcal / h	81,700	86,000
	*2	BTU / h	324,100	341,200
	Power input	kW	15.90	16.75
	Current input	Α	26.8-25.4-24.5	28.2-26.8-25.8
	COP	kW / kW	5.97	5.97
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	P15~P250/2~50
Sound pressure le		dB <a>	55	55
(measured in aned	choic room)	ub <a>	ວວ	55
Refrigerant piping	High pressure	mm (in.)	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

Set Model						
Model			PQRY-P400YLM-A	PQRY-P350YLM-A	PQRY-P400YLM-A	PQRY-P400YLM-A
Circulating water Water flow rate m³ / h		7.20 -	+ 7.20	7.20 -	+ 7.20	
		L/min	120 -	+ 120	120 -	+ 120
		cfm	4.2 -	+ 4.2	4.2	+ 4.2
	Pressure drop	kPa	44	44	44	44
	Operating volume range	m³/h	4.5 + 4.5 ~	11.6 + 11.6	4.5 + 4.5 ~	11.6 + 11.6
Compressor	Type		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	10.7	9.5	10.7	10.7
	Case heater	kW	_	_	_	_
External finish			Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets
External dimensio	n HxWxD	mm	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550
		in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16
Protection	High pressure pro	otection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High press	sure switch at 4.15 MPa (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	arge	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)
Net weight		kg (lbs)	216 (477)	216 (477)	216 (477)	216 (477)
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-Q200CBK Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC controller: CMB-P1016V-HA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1		Heat Source Twinning kit: CMY-Q200CBK Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC controller: CMB-P1016V-HA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1		

٠,	2 Normina conditio	115			
		Indoor	Water temperature Pipe length		Level difference
	Cooling	27°CD.B./19°CW.B. (81°FD.B./66°FW.B.)	30°C (86°F)	7.5m (24-9/16ft.)	0m (0ft.)
	Heating	20°CD.B. (68°FD.B.)	20°C (68°F)		

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

^{*}Be sure to provide interlocking for the unit operation and water circuit.

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

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



^{*}The ambient relative humidity of the heat source unit needs to be kept below 80%.

*The heat source unit should not be installed at outdoor.

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

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



► Specifications



Model			PQRY-P850YSLM-A	PQRY-P900YSLM-A
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)		kcal / h	82,600	86,900
	*1	BTU / h	327,600	344,600
	Power input	kW	18.03	19.38
	Current input	Α	30.4-28.9-27.8	32.7-31.0-29.9
	EER	kW / kW	5.32	5.21
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)
leating capacity	*2	kW	108.0	113.0
Nominal)		kcal / h	92,900	97,200
	*2	BTU / h	368,500	385,600
	Power input	kW	18.49	19.74
	Current input	Α	31.2-29.6-28.5	33.3-31.6-30.5
	COP	kW / kW	5.84	5.72
emp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
eating	Circulating water	°C	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)
ndoor unit	Total capacity		50~150% of heat source unit capacity	50~150% of heat source unit capacity
connectable	Model / Quantity		P15~P250/2~50	P15~P250/2~50
Sound pressure level (measured in anechoic room) dB		dB <a>	56	57
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
Set Model			. /	• -/

Model			PQRY-P450YLM-A	PQRY-P400YLM-A	PQRY-P450YLM-A	PQRY-P450YLM-A	
Circulating water	Water flow rate	m³/h	7.20 -	+ 7.20	7.20 -	+ 7.20	
		L/min	120 -	+ 120	120 -	+ 120	
		cfm	4.2 -	+ 4.2	4.2 -	+ 4.2	
	Pressure drop	kPa	44	44	44	44	
Operating volume range m³ / h			4.5 + 4.5 ~	11.6 + 11.6	4.5 + 4.5 ~	11.6 + 11.6	
Compressor Type			Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	11.6	10.7	11.6	11.6	
	Case heater	kW	-	-	-	_	
External finish			Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets	
External dimension	n HxWxD	mm	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	
		in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	
Protection	High pressure pro	tection	High pressure sensor, High press	sure switch at 4.15 MPa (601 psi)	High pressure sensor, High press	sure switch at 4.15 MPa (601 psi)	
devices	Inverter circuit (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	arge	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	
Net weight		kg (lbs)	216 (477)	216 (477)	216 (477)	216 (477)	
Heat exchanger			plate type	plate type	plate type	plate type	
Water volume in plate		L	5.0	5.0	5.0	5.0	
Water pressu Max.		MPa	2.0	2.0	2.0	2.0	
Optional parts			Joint: CMY-Y102SS/I Main BC controller:	g kit: CMY-Q200CBK _S-G2, CMY-R160-J1 CMB-P1016V-HA1 108V-GB1, CMB-P1016V-HB1	Heat Source Twinning kit: CMY-Q200CBK Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC controller: CMB-P1016V-HA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1		

٠,	2 Nominal conditio	113				
		Indoor	Water temperature	Pipe length	Level difference	
	Cooling	27°CD.B./19°CW.B. (81°FD.B./66°FW.B.)	30°C (86°F)	7.5m (24-9/16ft.)	0m (0ft.)	
	Heating	20°CD.B. (68°FD.B.)	20°C (68°F)			

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



^{*}The ambient relative humidity of the heat source unit needs to be kept below 80%.

*The heat source unit should not be installed at outdoor.

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

^{*}Be sure to provide interlocking for the unit operation and water circuit.

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

*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
- Wall mounted type Designer Series with external LEV Kit
- Floor standing exposed
- Floor mounted concealed type
- BC Controller
- Air to Water unit
- Lossnay
- Air Handling Unit Controller
- **OA Processing Units**

Wide Selection of Indoor Units

Тур	е	Model name	Model	P15	P20	P25	
	4-way air flow	PLFY-P VBM-E Page88 - Page89	NEW)		 		
Ceiling Cassette	 	PLFY-P VFM-E Page90 - Page91			 		
	2-way air flow	PLFY-P VLMD-E Page92 - Page93					
	1-way air flow	PMFY-P VBM-E					
		PEFY-P VMS1(L)-E					
		PEFY-P VMA(L)-E				1	1
Ceiling Concealed	d	PEFY-P VMH(S)-E					
	Fresh Air Intake	PEFY-P VMH-E-F Page102 - Page103			 		
Ceiling Suspende	d	PCFY-P VKM-E Page104 - Page105			 		
		PKFY-P VBM-E Page106 - Page107	•				
		PKFY-P VHM-E Page106 - Page107			†	 	
Wall Mounted		PKFY-P VKM-E Page106 - Page107			 		
		MSZ-EF Designer Series			 		
	Floor Standing/ Floor Mounted Concealed						
Floor Standing/ Floor Mounted Co						:	
		PFFY-P VLRM-E PFFY-P VLRMM-E Page114 - Page115					
		Tage 114 - Fage 110			<u>!</u>	!	!

	P32	P40	P50	P63	P71	P80	P100	P125	P140	P200	P250
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INDOOR UNIT Ceiling cassette type 4-way airflow

PLFY-P VBM-E Free Sensor



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.



Automatic Air Speed Adjustment

Auto-Fan speed mode enables fast, effective operation during start-up.

The Auto-Fan speed mode is an additional fan speed setting to the usual four steps (Low, Mid1, Mid2 and High).

Auto-Fan speed mode ensures fast, effective operation on start-up by increasing the airflow speed initially, then reducing the airflow once set temperature is reached



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

Draft-less Air Distribution

Horizontal airflow mode can be used to avoid drafts and discomfort to occupants. directing the airflow horizontally, the unit creates a draft-free environment even at higher fan speeds.



IT terminal

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

Wide Air Flow

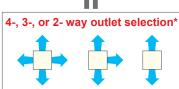
In Wide Airflow mode, discharged air can reach a wider area than conventional models, while fan speed decreases by 20% thanks to the units uniquely shaped air outlet.



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

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

72 airflow patterns



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

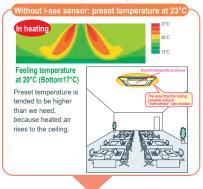


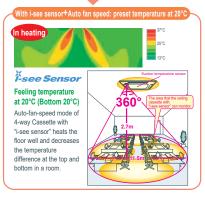


Optional "i-See" Sensor

The PLFY-VBM Cassette series can be fitted with an optional "i-See" Sensor (PAC-SA1ME-E). The i-See sensor seeks out and corrects temperature disparities within the room to ensure precise, even comfort.

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





Indoor Unit

				PLFY-P32VBM-E	PLFY-P40VBM-E	PLFY-P50VBM-E			
Power	source			1-phase 2	20-240V 50Hz / 1-phase 2	20V 60Hz			
0 1:		. *1	kW	3.6	4.5	5.6			
Cooling	g capacity	*1	BTU/h	12,300	15,400	19,100			
11		. *1	kW	4.0	5.0	6.3			
Heating	g capacity	*1	BTU/h	13,600	17,100	21,500			
Power		Cooling	kW	0.03	0.04	0.04			
consumption Heating kW			kW	0.02	0.03	0.03			
Curren		Cooling	Α	0.27	0.29	0.29			
Heating A				0.20	0.22	0.22			
Externa	al finish	Unit			Galvanized steel sheet				
(Munse	ell No.)	Panel			MUNSELL (6.4Y 8.9/0.4)				
Dimens		Unit	mm(in.)	258 x 84	10 x 840 (10-3/16 x 33-1/8 x	x 33-1/8)			
H x W x D Panel mm(in.)				35 x 95	0 x 950 (1-3/8 x 37-7/16 x 3	37-7/16)			
Net we	i m la d	Unit	kg(lbs.)	22 (49)					
ivet we	igni	Panel	kg(lbs.)	6 (13)					
Heat ex	xchanger			Cross fin (Aluminum fin and copper tube)					
	Type x	Quantity		Turbo fan x 1					
	Airflow	rate *2	m³/min	11-12-13-14	3-14-16				
Fan		-Mid1-Hi)	L/s	183-200-217-233	200-217	7-233-267			
	`	,	cfm	388-424-459-494 424-459-494-565					
	External sta	itic pressure	Pa		0				
Motor	Туре				DC motor				
WOO	Output		kW		0.050				
Air filte	r				PP Honeycomb				
Refrigerant Gas (Flare) mm(in.)			mm(in.)	ø12.7	7 (ø1/2)	ø12.7 (ø1/2) / ø15.88 (ø5/8) (Compatible)			
pipe dia	pipe diameter Liquid (Flare) mm(in.		mm(in.)	ø6.35 (ø1/4)		ø6.35 (ø1/4) / ø9.52 (ø3/8) (Compatible)			
Field dr	Field drain pipe diameter mm(in.)			O.D. 32 (1-1/4)					
Sound pressure level *2 *3 (Lo-Mid2-Mid1-Hi) dB(A)			dB(A)	27-28-29-31 27-28-30-31					

				PLFY-P63VBM-E	PLFY-P80VBM-E	PLFY-P100VBM-E	PLFY-P125VBM-E			
Power	source				1-phase 220-240V 50H	lz / 1-phase 220V 60Hz				
0 1:		. *1	kW	7.1	9.0	11.2	14.0			
Cooling	capacity	*1	BTU/h	24,200	30,700	38,200	47,800			
114:		. *1	kW	8.0	10.0	12.5	16.0			
Heating	g capacity	[/] *1	BTU/h	27,300	34,100	42,700	54,600			
Power		Cooling	kW	0.05	0.07	0.15	0.16			
consun	nption	Heating	kW	0.04	0.06	0.14	0.15			
Current		Cooling	Α	0.36	0.51	1.00	1.07			
Heating A			Α	0.29	0.43	0.94	1.00			
Externa	al finish	Unit			Galvanized	steel sheet				
(Munse	ll No.)	Panel			MUNSELL ((6.4Y 8.9/0.4)				
Dimens		Unit	mm(in.)		258 x 840 x 840 (10-3	3/16 x 33-1/8 x 33-1/8)				
H x W x D Panel mm(in.)					35 x 950 x 950 (1-3/8	3 x 37-7/16 x 37-7/16)				
Net we	iaht	Unit	kg(lbs.)	23	(51)	27 (60)				
ivet we	igrit	Panel	kg(lbs.)		6 (13)				
Heat ex	changer			Cross fin (Aluminum fin and copper tube)						
	Type x	Quantity		Turbo fan x 1						
	Airflow	*2 m³/min		14-15-16-18	16-18-20-22	21-24-27-29	22-25-28-30			
Fan	,	-Mid1-Hi)	L/s	233-250-267-300	267-300-333-367	350-400-450-483	367-417-467-500			
	`	cfm		494-530-565-636	565-636-706-777	742-848-953-1024 777-883-989-1059				
	External sta	itic pressure	Pa		(0				
Motor	Туре				DC r	notor				
	Output		kW	0.0		0.1	20			
Air filte	r				PP Hon					
Refrige	Refrigerant Gas (Flare) mm(in			ø15.88	3 (ø5/8)	ø15.88 (ø5/8) / (Comp				
pipe dia	ameter	Liquid (Flare)	mm(in.)		ø9.52	(ø3/8)				
Field dr	ain pipe c	liameter	mm(in.)	O.D. 32 (1-1/4)						
Sound pressure level *2 *3 (Lo-Mid2-Mid1-Hi) dB(A)			dB(A)	28-29-30-32	30-32-35-37	34-37-39-41	35-38-41-43			

- *1 Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling: Indoor 27°C(81°F)DB/19°C(66°F)WB,Outdoor 35°C(95°F)DB Heating: Indoor 20°C(68°F)DB,Outdoor 7°C(45°F)DB/6°C(43°F)WB
- $^{\star}2$ 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 4-way airflow



PLFY-P VFM-E 3D i-see Sensor





Mitsubishi Electric's new VFM 4-way cassette series features a sleek, compact design and the new 3D i-See Sensor.



New Capacity Line-up

New capacities have been introduced to expand the line-up. The diverse range available ensures the best solution for the customer and application.

		1.5kW	2.0kW	2.5kW	3.2kW	4.0kW	5.0kW
NEW	PLFY-P VFM	~	~	~	~	~	~

Airflow Control

Horizontal airflow

Horizontal airflow mode can be used to avoid drafts and discomfort to occupants. By directing the airflow horizontally, the unit creates a draft-free environment even at higher fan speeds.

Quietness

The sound level has been reduced by 2-4dB thanks to the introduction of a 3D turbo fan, for quieter and more comfortable air conditioning.



IT terminal

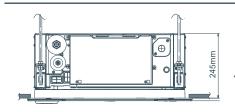
IT terminal is available. For details, contact your local distributor.

Indoor Unit

Industry Leading Slim-line Design

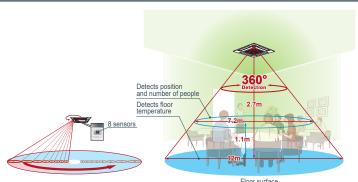
With a height of only 245mm, new VFM cassette has been designed to fit within confined ceiling spaces.

The height above ceiling of 245mm is top class in the industry.*



* As of Aug 2015. Among compact 4-way cassettes for system ceiling

3D i-see Sensor



Floor surface *In case of a 2.7m ceiling

Occupancy Sensor

This intelligent 8-element sensor simultaneously scans the room and divides it into 752 three-dimensional zones, measuring the temperature in each to detect the exact position of occupants based on their heat signatures.

The 3D i-See Sensor is also an intuitive occupancy sensor that, after a set period of absence, will switch to energy saving operation, raising or lowering the set temperature by 2°C for greater energy savings. When occupants return, the sensor detects the change and reverts to the pre-set mode.

				PLFY-P15VFM-E	PLFY-P20VFM-E	PLFY-P25VFM-E	PLFY-P32VFM-E	PLFY-P40VFM-E	PLFY-P50VFM-E				
Power	source					1-phase 220-240V	50Hz / 220V 60Hz						
Caalin	~it	., *1	kW	1.7	2.2	2.8	3.6	4.5	5.6				
Coolini	g capacit	y *1	BTU/h	5,800	7,500	9,600	12,300	15,400	19,100				
Heatin	g capacit	., *1	kW	1.9	2.5	3,2	4.0	5.0	6.3				
Heating	y capacii	*1	BTU/h	6,500	8,500	10,900	13,600	17,100	21,500				
Power		Cooling	kW	0.02	0.02	0.02	0.02	0.03	0.04				
consur	nption	Heating	kW	0.02	0.02	0.02	0.02	0.03	0.04				
Current		Cooling	Α	0.19	0.21	0.22	0.23	0.28	0.40				
		Heating	Α	0.14	0.16	0.17	0.18	0.23	0.35				
Extern	al finish	Unit				Galvanized	steel sheet						
(Munse	ell No.)	Panel				MUNSELL (6.4Y 8.9/0.4)						
Dimen	sion	Unit	mm(in.)			208 x 570 x 570 (8-1	/4 x 22-1/2 x 22-1/2)						
$H \times W$	x D	Panel	mm(in.)		10 x 625 x 625 (3/8 x 24-5/8 x 24-5/8)								
Net we	sight.	Unit	kg(lbs.)		14 (31) 15 (33)								
ivet we	ignt	Panel	kg(lbs.)			3 ((7)						
Heat e	xchanger	r				Cross fin (Aluminum	fin and copper tube)						
	Type x (Quantity		Turbo fan x 1									
	Airflow	rate *2	m³/min	6.5-7.5-8.0	6.5-7.5-8.5	6.5-8.0-9.0	7.0-8.0-9.5	7.5-9.0-11.0	9.0-11.0-13.0				
Fan	(Lo-Mid-I	Hi)	L/s	108-125-133	108-125-142	108-133-150	117-133-158	125-150-183	150-183-217				
	(Lo-Mid1	-Mid2-Hi)	cfm	230-265-282	230-265-282 230-265-300		230-282-318 247-282-335		318-388-459				
	External sta	atic pressure	Pa		0								
Motor	Type			DC motor									
IVIOLOI	Output		kW		0.05								
Air filte	er				PP Honeycomb fabric (long life type)								
Refrigerant Gas (Flare) mm(in.)					ø12.7 (ø1/2)								
pipe di	ameter	Liquid (Flare)	mm(in.)	ø6.35 (ø1/4)									
Field d	rain pipe o	diameter	mm(in.)	O.D. 32 (1-1/4) (PVC pipe VP-25 connectable)									
(Lo-Mid	Sound pressure level *2 *3 (Lo-Mid-Hi) dB(A) (Lo-Mid1-Mid2-Hi)			26-28-30	26-29-31	26-30-33	26-30-34	28-33-39	33-39-43				

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

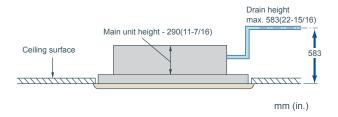


Slim body of 290mm(11-7/16in.) height



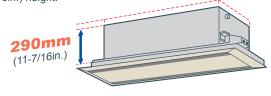
Equipped with drain pump mechanism as standard

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)											
		Capacity		P20	P25	P32	P40	P50	P63	P80	P100	P125											
		Fan Speed	High		33		36	37	39	39	42	46											
			Fan	1 Mid 1 .30	_	_		-						Mid		30		33	34	37	36	39	42/44
						29	31	32	33	36	40												

<220V,240V>

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

<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				1-phase 220-240V 50Hz	1-phase 220-230V 60Hz					
Cooling	capacity	, *1	kW	2.2	2.8	3.6	4.5				
Cooming	Capacity	*1	BTU/h	7,500	9,600	12,300	15,400				
Heating	capacit	, *1	kW	2.5	3.2	4.0	5.0				
ı icatii iç	Capacit	*1	BTU/h	8,500	10,900	13,600	17,100				
Power		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				
Current		Cooling	Α	0.36 / 0.37	0.36 / 0.37	0.36 / 0.37	0.40 / 0.42				
		Heating	Α	0.30 / 0.32	0.30 / 0.32	0.30 / 0.32	0.34 / 0.37				
External finish Unit					Galvanized	steel plate					
(Munsell No.) Panel					Pure white (6.4Y 8.9/0.4)					
Dimension Unit mm (in.)			mm (in.)		290 x 776 x 634 (11-7/16 x 30-9/16 x 25)						
A W x	D	Panel	mm (in.)		20 x 1080 x 710 (13/16 x 42-9/16 x 28)						
Net wei	iaht	Unit	kg(lbs.)	23 (24	(53)					
		Panel	kg(lbs.)								
Heat ex	changer			Cross fin							
	Type x	Quantity		Turbo fan x 1 6.5-8.0-9.5 7.0-8.5-10.5							
	Airflow	rate *2	m³/min		7.0-8.5-10.5						
an	(Lo-Mid		L/s		108-133-158	117-142-175					
	`	,	cfm		230-283-335		247-300-371				
		atic pressure	Pa		()					
Motor	Туре				1-phase ind	uction motor					
	Output		kW		0.015 (a						
Air filter					PP honeycomb fal	bric (long life type)					
Refrige		Gas(Flare)	mm(in.)		ø12.7	· /					
pipe diameter Liquid(Flare) mm(in.)			mm(in.)	ø6.35 (ø1/4)							
	Field drain pipe diameter mm(in.)			O.D.32 (1-1/4)							
	Sound pressure level 220V,240V dB(A)		dB(A)	27-30-33 29-33-36							
(Lo-Mid-H	o-Mid-Hi) *2 *3 230V dB(A)		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					50Hz / 1-phase 220-230V					
		*1	kW	5.6	7.1	9.0	11.2	14.0			
Cooling	g capacit	y *1	BTU/h	19,100	24,200	30,700	38,200	47,800			
11		*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			
Curren		Cooling A		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)					
Dimens	sion	Unit	mm (in.)	290 x 946 x 634 (11	-7/16 x 37-1/4 x 25)	290 x 1446 x 634 (11-	7/16 x 56-15/16 x 25)	290 x 1708 x 606 (11-7/16 x 67-1/4 x 23-7/8)			
H x W x D Panel mm (in.)			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)			
Notwo	Net weight		kg(lbs.)	27 (60)	28 (62)	44 (98)	47 (104)	56 (124)			
ivet we	Net weight		kg(lbs.)	7.5	(17)	12.5	(28)	13.0 (29)			
Heat e	xchanger	r				Cross fin					
	Туре х	e x 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	25:Lo-Mid2-Mid1-Hi) cfm		318-388-441	353-459-547	848-953-1,059-1,165					
	External sta	atic pressure	Pa			0					
Motor	Туре					1-phase induction motor					
IVIOLOI	Output		kW	0.020 (a	at 240V)	0.020 (at 240V)	0.030 (at 240V)	0.078 x 2 (at 240V)			
Air filte	r				DD.	noneycomb fabric (long life t		Synthetic fiber unwoven			
All litte	'				PPI	ioneycomb labric (long lile t	ype)	cloth filter (long life)			
Refrige	Gas (Flare) mm(i		mm(in.)	ø12.7 (ø1/2)		ø15.88	(ø5/8)				
pipe di	pipe diameter Liquid (Flare) mm(in.)			ø6.35 (ø1/4)	ø9.52 (ø3/8)						
Field dr	ain pipe	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	Lo-Mid-Hi) *2 *3 230V			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 standardised for all models at 812mm for easier installation. Body weight is only 14kg for the main unit and 3kg for the panel, making this unit one of the lightest in the industry.

Quiet operation

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

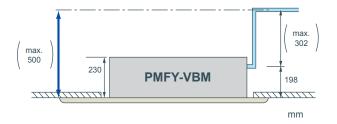
Sound pressure level table

Souria pre	essure	SSUITE TEVEL LADIE								
	Сара	city	P20	P25	P32	P40				
Sound		High	35	3	7	39				
pressure level	Fan	Mid 1	33	3	6	37				
	Speed	Mid 2	30	34		35				
		Low	27	3	2	33				

<220V,240V>

Drain pump

The drain can be positioned anywhere up to 500mm from the ceiling's surface.



				PMFY-P20VBM-E	PMFY-P25VBM-E	PMFY-P32VBM-E	PMFY-P40VBM-E						
Power	source				1-phase 220-240V 50H	z / 1-phase 220V 60Hz							
Cooling	capacit	, *1	kW	2.2	2.8	3.6	4.5						
200IIII6	y capacit	*1	BTU/h	7,500	9,600	12,300	15,400						
Jooting	g capacit	., *1	kW	2.5	3.2	4.0	5.0						
теашіц	y capacii	·y *1	BTU/h	8,500	10,900	13,600	17,100						
ower		Cooling	kW	0.042	0.0	44	0.054						
onsun	nption	Heating	kW	0.042	0.0	44	0.054						
Current	+	Cooling	Α	0.20	0.2	21	0.26						
unem	ι	Heating	Α	0.20	0.2	21	0.26						
xterna	al finish (Munsell N	lo.)		White (0.98Y 8.99/0.63)								
Dimension Unit mm(in.)					230 x 812 x 395 (9-1/16 x 32 x 15-9/16)								
AxWxD Panel mm(in.		mm(in.)		30 x 1000 x 470 (1-3/16 x 39-3/8 x 18-9/16)									
let we	iaht	Unit	kg(lbs.)		14 (31)							
ver we	igiit	Panel	kg(lbs.)		3 (. /							
leat ex	xchanger	r			Cross fin (Aluminum plate fin and copper tube)								
	Туре				Line flow	v 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		2-Mid1-Hi)	L/s	108-120-133-145	122-133-	143-155	128-145-162-178						
	(LO-IVIIUZ	-iviiu i-i ii)	cfm	230-254-283-307	258-283-	304-328	272-307-343-378						
	External st	taticpressure	Pa		C)							
1otor	Туре				1-phase indu	uction motor							
/10101	Output		kW		0.0	28							
Air filte	r				PP Honeyo	comb fabric							
Refrige	rant	Gas(Flare)	mm(in.)		ø12.7	(ø1/2)							
	pe diameter Liquid(Flare) mm(in.)			ø6.35 (ø1/4)									
	ain pipe		mm(in.)	O.D. 26 (1)									
	pressure 12-Mid1-H		dB(A)	27-30-33-35	27-30-33-35 32-34-36-37								

- *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 Low Static Ducted Units

PEFY-P VMS1(L)-E



Static Pressure 5~50Pa

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

Low Noise

Width **790mm**

Width 990mm

Width **1,190mm**

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



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.

Optional drain pump

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

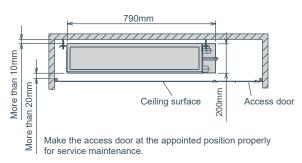
*For places where low noise operation is especially required (i.e. Hotels), VMS1L (without drain pump) is recommended.

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

				DEEV D15\/MQ1/I \ E	DEEV D20\/M\$1/I \ E	DEEV D25\/MS1/I \ E	DEEV D33\/MQ1/I \ E	DEEV D40\/MQ1/I \ E	DEEV DEOV/MQ1/I \ E	PEFY-P63VMS1(L)-E				
Power	sourc	e		FLI I-F IOVINO I(L)-L	FEI 1-F20VIVI31(L)-L		10V 50Hz / 1-phase		F L	. FEI 1=F05VW51(L)=L				
		*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				
		., *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 [0.07]	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]				
Curror	o+ *2	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	Current *3 Cooling Heating		Α	0.31 [0.31]	0.36 [0.36]	0.45 [0.45]	0.56 [0.56]	0.61 [0.61]						
Extern	al finis	h												
Dimen	sion		mm		200 x 79	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	x 27-9/16	7-7/8 x 46-7/8 x 27-9/16					
Net w	eight	*3	kg(lbs.)	19(42) [18(40)] 20(45) [19(42)] 24(53) [23(28(62) [27(60)]				
Heat e	xchang	jer			Cross fin (Aluminium fin and copper tube)									
	Туре х	Quantity			Sirocco	fan x 2		Sirocco	fan x 3	Sirocco fan x 4				
	Airflov	v roto	m³/min	5-6-7	5.5-6.5-8	5.5-7-9	6-8-10	8-9.5-11	9.5-11-13	12-14-16.5				
Fan	(Lo-M		L/s	83-100-117	91-108-133	91-117-150	100-133-167	133-158-183	158-183-217	200-233-275				
	(LO-IVI	iu-i ii)	cfm	176-212-247	194-229-282	194-247-317	212-282-353	282-335-388	335-388-459	424-494-583				
	Externa	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) Brazed	d		ø15.88 (ø5/8) Brazed				
pipe diameter	Liquid		mm(in.)			Q	6.35 (ø1/4) Brazed	d		ø9.52 (ø3/8) Brazed				
Field dr	ain pipe	diameter	mm(in.)				O.D. 32 (1-1/4)							
(Lo-Mid	Sound pressure level (Lo-Mid-Hi) (mesured in anechoic room)		dB <a>	22-24-28	23-25-29	24-26-30	24-27-32	28-30-33	30-32-35	30-33-36				

^{*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 Mid Static Ducted Units

PEFY-P VMA(L)-E





Precise control of indoor temperatures while operating with optimum energy usage, offering high-energy saving efficiency.



Compact Indoor Units

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





PEFY-P	VMA(L)	20	25	32	40	50	63	71	80	100	125	140
Height						250						
Width mm		700 900 1,100 1,4						100	1,600			
Depth						732						

External static pressure

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

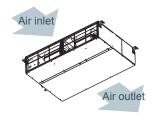
External static pressure setting

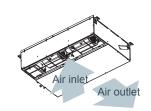
External static pressure setting												
Series	20	25	32	40	50	63	71	80	100	125	140	
PEFY-P VMA(L) 35/50/70/100/150Pa												

Air Inlet

(1) Rear inlet







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 units to control the fan speed setting in conjunction with damper conditions.

IT terminal

IT terminals are available. For details, contact your local distributor.

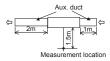


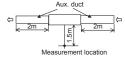
PEFY-P20VMA(L)-E										
Power				PEFT-PZUVIVIA(L)-E		- ()	- ()	PEF 1-POUVIVIA(L)-E		
			114/		r ·	hase 220-230-240V 50 / 60				
Cooling			kW	2.2	2.8	3.6	4.5	5.6		
(Nomin		*1	BTU/h	7,500	9,600	12,300	15,400	19,100		
Heating		,	kW	2.5	3.2	4.0	5.0	6.3		
(Nomin		*2	BTU/h	8,500	10,900	13,600	17,100	21,500		
Power		Cooling *3	kW	0.06 [0.04]	0.06 [0.04]	0.07 [0.05]	0.09 [0.07]	0.11 [0.09]		
consum			kW	0.04	0.04	0.05	0.07	0.09		
Current		Cooling *3	Α	0.53 [0.42]	0.53 [0.42]	0.55 [0.44]	0.64 [0.53]	0.74 [0.63]		
Ouricin		Heating *3	Α	0.42 0.42 0.44 0.53 0.63						
Externa	al finis	h				Galvanized steel plate				
Dimons	cion L	H x W x D	mm	250 x 700 x 732	250 x 700 x 732	250 x 700 x 732	250 x 900 x 732	250 x 900 x 732		
Dilliens	in.			9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 35-7/16 x 28-7/8	9-7/8 x 35-7/16 x 28-7/8		
Net weight kg(lbs				23 (51) [22 (49)]	26 (58) [25 (56)]					
Heat ex	xchan	ger			Cross f	fin (Aluminum fin and coppe	r tube)			
	Type x Quantity					Sirocco fan x 1				
	A inflo	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-migit)	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)	111111(111.)	6.35 (1/4) Brazed	6.35 (1/4) Brazed	6.35 (1/4) Brazed	6.35 (1/4) Brazed	9.52 (3/8) Brazed		
pipe diar	meter	Gas (R410A)	(:)	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 pip	oe diameter	mm(in.)	O.D.32 (1-1/4)	O.D.32 (1-1/4)					
Sound	press	ure level (m	easured in	anechoic room)				· · · · · · · · · · · · · · · · · · ·		
(Low-M	∕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	9				1-phase 220-230	0-240V 50 / 60Hz				
Cooling	д сара	city *1	kW	7.1	8.0	9.0	11.2	14.0	16.0		
(Nomin	nal)	*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	nal)	*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	Α	0.90	0.90 1.04 1.04 1.36 1.94						
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	IXVVXD	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	ight		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)				
	Туре	x Quantity				Sirocco	fan x 2				
	Airflo	Airflow 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		L/s	225 - 267 - 317	242 - 300 - 350	242 - 300 - 350	383 - 467 - 550	467 - 567 - 667	492 - 592 - 700		
an			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		
	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>	<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	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		
Refriger	ant	(R22,R407C)	111111(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	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		
	(R22,R407C)		111111(111.)	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed		
Field dr	ain pip	e diameter	mm(in.)	O.D.32 (1-1/4) O.D.32 (1-1/4) O.D.32 (1-1/4) O.D.32 (1-1/4) O.D.32 (1-1/4) O.D.32							
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
- [] 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 ______ High Static Ducted Units

PEFY-P VMH(S)-E

High Static Pressure



Increased design flexibility with higher external static pressure for powerful ducted air conditioning that preserves interior decor.



High static pressure of 200 Pa or higher

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

PEFY-P	VMH-E	P40	P50	P63	P71	P80	P100	P125	P140	P200	P250
	220V		50/100/200								_
External static	230/240V		100/150/200								_
pressure (Pa)	380V				_					110/220	
(. ω)	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

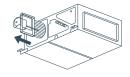
Sound pressure level table (Standard static pressure 220V)

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

One-side maintenance

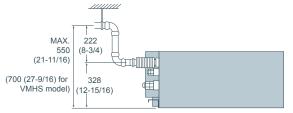
All maintenance to the unit, including fan inspection and fan motor removal, can be conducted from the inspection opening on one side.

(VMH model only)



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

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



mm (in.)

				PEFY-P40VMH-E	PEFY-P50VMH-E	PEFY-P63VMH-E	PEFY-P71VMH-E	PEFY-P80VMH-E	PEFY-P100VMH-E	PEFY-P125VMH-E	PEFY-P140VMH-E
Power	source					1-phase	220-240V 50Hz	1-phase 220-24	OV 60Hz		
Caslin	~it	*1	kW	4.5	5.6	7.1	8.0	9.0	11.2	14.0	16.0
Coolini	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
Curren		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	ıı	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	anized			
Dimon	sion H x	W v D	mm		380 x 750 x 900		380 x 1,0	000 x 900	;	380 x 1,200 x 900)
Dimen	SIOII II X	W X D	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	eight		kg(lbs.)				70 (155)				
Heat e	xchanger					Cross	fin (Aluminum pla	ate fin and coppe	r tube)		
	Type x	Quantity				Sirocco fan x 1				Sirocco fan x 2	
	Airflow	rata	m³/min	10.0-	-14.0	13.5-19.0	15.5-22.0	18.0-25.0	26.5	-38.0	28.0-40.0
F	(Lo-Hi)	iale	L/s	167-	-233	225-317	258-367	300-417	442	-633	467-667
Fan	(LO-HI)	ĺ	cfm	353	-494	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			
Motor	Туре						1-phase ind	uction motor			
IVIOIOI	Output	*3	kW	0.	08	0.12	0.14	0.18		0.26	
Air filte	r (option))				Synth	ethic fiber unwov	en cloth filter (lor	g 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	rain pipe	diameter	mm(in.)	O.D. 32 (1-1/4)							
Sound	pressure	220V	dB(A)	27-	-34	32-38	32-39	35-41		34-42	
level (Lo-Hi) *6 230,240V dE				31-	-37	36-41	35-41	38-43		38-44	

Power source					PEFY-P200VMHS-E	PEFY-P250VMHS-E			
Cooling capacity File Fi	Power	source			1-phase 220-240V 50Hz /	1-phase 220-240V 60Hz			
Heating capacity 1	0			kW	22.4	28.0			
Heating capacity 1	Cooling	g capacit	y *1	BTU/h	76,400	95,500			
Power Cooling KW 0.63 *7 0.82 *7 0	114:		*1	kW	25.0	31.5			
Consumption Heating KW 0.63 *7 0.82 *7			y *1	BTU/h	85,300	107,500			
Cooling 380.415V A	Power		Cooling	kW	0.63 *7	0.82 *7			
Cooling 20/200/200 A 3.47-3.32-3.18 *7 4.72-4.43-4.14 *7	consun	nption	Heating	kW	0.63 *7	0.82 *7			
Current Fan Current		Cooling	380-415V	Α	-	_			
Heating 304-15/V A 3.47-3.32-3.18 *7 4.72-4.43-4.14 *7	0	Cooling	220-230-240V	Α	3.47-3.32-3.18 *7	4.72-4.43-4.14 *7			
Substitution Subs	Current	Hooting	380-415V	Α	-	-			
Dimension H x W x D mm 18-9/16 x 49-1/4 x 44-1/8		nealing	220-230-240V	Α	3.47-3.32-3.18 *7	4.72-4.43-4.14 *7			
Dimension H x W x D in. 18-9/16 x 49-1/4 x 44-1/8	Externa	al finish			Galvanized	steel plate			
In. 18-9/16 x 49-1/4 x 44-1/8 100 (221)	Dimone	nion Ll v	W v D	mm	470 x 1,25	50 x 1,120			
Heat exchanger	Difficits	SIUII FI X	WXD	in.	18-9/16 x 49-1/4 x 44-1/8				
Type x Quantity	Net we	ight	ht						
Fan Airflow rate	Heat ex								
Airflow rate		Type x Quantity			Sirocco	fan x 2			
Cfm				m³/min	-	-			
Fan Lo-Mid-Hi L		Airflow	rate	-	-	-			
Fan				cfm		_			
Cfm 1766-2154-2542 2048-2507-2966				m³/min	50.0-61.0-72.0	58.0-71.0-84.0			
Synthethic fiber unwoven cloth filter (long life filter) and filter box are recommended. Signature	Fan		Lo-Mid-Hi	L/s	833-1017-1200	967-1183-1400			
Extend state 400,415V Pa					1766-2154-2542	2048-2507-2966			
Pa				Pa	-	-			
mmH₂O		External static	400,415V		-	-			
Type		pressure		Pa	<50>-<100>-15	0-<200>-<250> *8			
Motor Output kW 0.87 0.87 Air filter(option) Synthethic fiber unwoven cloth filter (long life filter) and filter box are recommended. Refrigerant pipe diameter Liquid mm/(in.) Ø19.05 (Ø3/4) Ø22.2 (Ø7/8)				mmH₂O	<5.1>-<10.2>-15.	20.4>-<25.5> *8			
Output kW 0.87 Air filter(option) Synthethic fiber unwoven cloth filter (long life filter) and filter box are recommended. Refrigerant pipe diameter Liquid properties (Brazed) properti	Motor				DC motor				
Gas mm(in.) Ø19.05 (Ø3/4) Ø22.2 (Ø7/8)	IVIOLOI	Output		kW	* *				
Refrigerant (Brazed) mm(in.) Ø19.05 (Ø3/4) Ø22.2 (Ø7/8)	Air filte	ter(option)			Synthethic fiber unwoven cloth filter (long life filter) and filter box are recommended.				
g0 52 (g3/g)	Refrige	rant		mm(in.)	ø19.05 (ø3/4)	ø22.2 (ø7/8)			
(Brazed)	pipe dia	ameter	Liquid (Brazed)	mm(in.)	ø9.52	(ø3/8)			
Field drain pipe diameter mm(in.) O.D. 32 (1-1/4)	Field dr	ain pipe	diameter	mm(in.)	O.D. 32	(1-1/4)			
390/ dB(A)				dB(A)	=	-			
Sound pressure 400,415V dB(A) - -		oressure	400,415V	dB(A)	=	=			
level LoMicHi dB(A) 36-39-43 *9 39-42-46 *9	ievei		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
- $^{\star}2$ The external static pressure is set to 100Pa (at 220V) /150Pa (at 230, 240V) at factory shipment.
- $^{\star}3$ The value are that at 240V.
- *4 The external static pressure is set to 220Pa (at 380V) /260Pa (at 400, 415V) at factory shipment.
- *5 The value are that at 415V.

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

INDOOR UNIT Fresh Air Intake Type

PEFY-P VMH-E-F

Fresh Air Intake

Fresh Air can be taken in with temperature control. Ideal for offices, stores and restaurants.



The Fresh Air intake indoor unit can be installed anywhere.

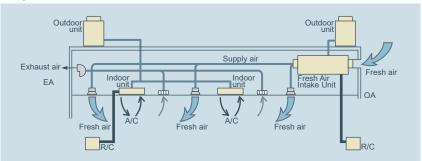
The Fresh Air intake indoor unit can take fresh outdoor air into any building in any place.

Office, Lobby, Workshop, Rest room, Nursing home, Cafeterias, Restaurant Kitchen

* Limits of capacity connectable to outdoor unit

 $Max.\ 110\%\ of\ outdoor\ unit\ capacity,\ excepting\ heating\ at\ outdoor\ temperature\ of\ less\ than\ -5^{\circ}C(23^{\circ}F)\ (100\%).$

Example



< Note>

Fan remains in operation during Thermo-OFF. Using this model with other types of indoor units is recommended to prevent cold drafts caused by intaken fresh air.

< Note>

Please contact your local sales engineer for specific installation and application information relating to this product.

				PEFY-P80VMH-E-F	PEFY-P140VMH-E-F				
Power	source			1-phase 220-240V 50Hz /					
Cooling	g capacit	*1 V	kW	9.0	16.0				
ļ.,	J	y *1 *1	BTU/h	30,700	54,600 15.1				
Heating	g capacit	y *1	kW BTU/h	8.5 29,000	51,500				
Power		Cooling kW		0.16 / 0.21	0.29 / 0.33				
Power		Heating	kW	0.16 / 0.21	0.29 / 0.33				
consumption		Cooling	A	0.67 / 0.91	1.24 / 1.48				
Curren	t	Heating	Α	0.67 / 0.91	1.24 / 1.48				
Externa	al finish			Galva					
Dimens	sion		mm/in)	380 x 1000 x 900	380 x 1200 x 900				
HxW			mm(in.)	(15 x 39-3/8 x 35-7/16)	(15 x 47-1/4 x 35-7/16)				
Net we			kg(lbs.)	50 (111)	70 (155)				
Heat e	xchange			Cross fin (Aluminum pla Sirocco fan x 1					
	Type x	Quautity	m³/min	9.0	Sirocco fan x 2 18.0				
	Airflow	rate	L/s	150	300				
Fan	Allilow	Tale	cfm	318	636				
	External	208V	Pa	35 - 85 - 170	35 - 85 - 170				
	static	220V	Pa	40 - 115 - 190	50 - 115 - 190				
	pressure	230V	Pa	50 - 130 - 210	60 - 130 - 220				
	(Lo-Mid-Hi)		Pa	80 - 170 - 220	100 - 170 - 240				
Motor	Туре			1-phase indu					
IVIOIOI	Output		kW	0.09 (at 220V)	0.14 (at 220V)				
Air filte	r (option)			Synthetic fiber unwove	en cloth filter (long life)				
		Gas	mm(in.)	ø15.88	(ø5/8)				
Refrige		(Flare)		\$ 10.00	(55.5)				
pipe di	ameter	Liquid (Flare)	mm(in.)	ø9.52 (ø3/8)					
Field de	rain pipe	(/	mm(in.)	O.D.32	(4.4/4)				
	essure level		dB(A)	27 - 38 - 43	28 - 38 - 43				
(Lo-Mid-H		230, 240V	dB(A)	33 - 43 - 45	34 - 43 - 45				
(20 11110 11			- ()						
				PEFY-P200VMH-E-F PEFY-P250 VMH-E-F					
_									
Power	source		14/4/	3-phase 380-415V 50Hz	z / 3N~ 380-415V 60Hz				
	source	ity	kW RTII/b	3-phase 380-415V 50Hz 22.4	z / 3N~ 380-415V 60Hz 28.0				
		ity	BTU/h	3-phase 380-415V 50Hz 22.4 76,400	z / 3N~ 380-415V 60Hz 28.0 95,500				
Coolin			BTU/h kW	3-phase 380-415V 50Hz 22.4 76,400 21.2	z / 3N~ 380-415V 60Hz 28.0 95,500 26.5				
Coolin	g capac	ity	BTU/h	3-phase 380-415V 50Hz 22.4 76,400	z / 3N~ 380-415V 60Hz 28.0 95,500				
Coolin Heatin Power	g capac	city	BTU/h kW BTU/h	3-phase 380-415V 50Hz 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 50Hz 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 consu	g capac g capac umption	Cooling Heating Cooling Heating	BTU/h kW BTU/h kW kW	3-phase 380-415V 50Hz 22.4 76,400 21.2 72,300 0.34 / 0.42 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 0.68 / 0.86 0.68 / 0.86				
Coolin Heatin Power consu Currer Extern	g capac g capac umption nt	Cooling Heating Cooling Heating	BTU/h kW BTU/h kW kW	3-phase 380-415V 50Hz 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	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 Dimen	ig capacing	Cooling Heating Cooling Heating	BTU/h kW BTU/h kW kW A	3-phase 380-415V 50Hz 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	2 / 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 0.00 × 1120				
Coolin Heatin Power consu Currer Extern Dimen H x W	ig capaces ig capaces imption int ial finish ision x D	Cooling Heating Cooling Heating	BTU/h kW BTU/h kW kW A A mm(in.)	3-phase 380-415V 50Hz 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-	2 / 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 10 x 1120 1/4 x 44-1/8)				
Power consu Currer Extern Dimen H x W Net we	g capac g capac umption nt all finish sision x D	Cooling Heating Cooling Heating	BTU/h kW BTU/h kW kW A	3-phase 380-415V 50Hz 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 Galva 470 x 125 (18-9/16 x 49-100)	2 / 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)				
Power consu Currer Extern Dimen H x W Net we	ng capac ng capac ng capac numption nt nal finish nsion x D eight exchange	Cooling Heating Cooling Heating	BTU/h kW BTU/h kW kW A A Mmm(in.)	3-phase 380-415V 50Hz 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- 100 (Cross fin (Aluminum ple	2 / 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 i0 x 1120 11/4 x 44-1/8) 221) tet fin and copper tube)				
Coolin Heatin Power consu Currer Extern Dimen H x W Net we	ng capac ng capac ng capac numption nt nal finish nsion x D eight exchange	Cooling Heating Cooling Heating	BTU/h kW BTU/h kW kW A A Mmm(in.)	3-phase 380-415V 50Hz 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-	2 / 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 i0 x 1120 1/14 x 44-1/8) 221) ste fin and copper tube) fan x 2				
Coolin Heatin Power consu Currer Extern Dimen H x W Net we	g capace graph of the state of	Cooling Heating Cooling Heating Heating Couling Couling Couling Couling Couling Couling	BTU/h kW BTU/h kW kW A A kg(lbs.)	3-phase 380-415V 50Hz 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- 100 (Cross fin (Aluminum ple	2 / 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 i0 x 1120 11/4 x 44-1/8) 221) tet fin and copper tube)				
Coolin Heatin Power consu Currer Extern Dimen H x W Net we	ag capac amption al finish asion x D eight exchange	Cooling Heating Cooling Heating Heating Couling Couling Couling Couling Couling Couling	BTU/h kW BTU/h kW kW A A Mmm(in.)	3-phase 380-415V 50Hz 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- 100 (Cross fin (Aluminum pla Sirocco	2 / 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 1/4 x 44-1/8) 221) ste fin and copper tube) fan x 2 35				
Coolin Heatin Power consu Currer Exterm Dimen H x W Net we Heat e	g capace graph of the state of	Cooling Heating Cooling Heating Heating Couling Heating	BTU/h kW BTU/h kW kW A A mm(in.) kg(lbs.)	3-phase 380-415V 50Hz 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 49-100) Cross fin (Aluminum pla Sirocco 28 467	2 / 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 10 x 1120 11/14 x 44-1/8) 221) ate fin and copper tube) fan x 2 35 583				
Coolin Heatin Power consu Currer Exterm Dimen H x W Net we Heat e	g capace graph of the second o	Cooling Heating Cooling Heating Heating Couling Heating	BTU/h kW BTU/h kW A A mm(in.) kg(lbs.)	3-phase 380-415V 50Hz 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 ple Sirocco 28 467 989 140 / 200 150 / 210	2 / 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 1/14 x 44-1/8) 221) ste 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 umption nt lad finish lision x D light exchange Type x Airflow External static pressure	Cooling Heating Cooling Heating Heatin	BTU/h kW BTU/h kW A A mm(in.) kg(lbs.)	3-phase 380-415V 50Hz 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- 100 (Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200 150 / 210 160 / 220	2 / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.62 / 0.86 0.14 / 0.86 0.14 / 0.86 0.15 / 0.86 0.15 / 0.86 0.86 / 0.86 0.86 / 0.86 0.86 / 0.86 0.86 / 0.86 0.86 / 0.86 0.87 / 0.86 0.88 / 0.86 0.89 / 0.86 0.89 / 0.86 0.89 / 0.86 0.89 / 0.86 0.89 / 0.86 0.89 / 0.86 0.89 / 0.86 0.89 / 0.86 0.89 / 0.86 0.80 / 0.86				
Coolin Heatin Power consu Currer Extern Dimen H x W Net we Heat e	g capac g capac umption nt lad finish lision x D light exchange Type x Airflow External static pressure	Cooling Heating Cooling Heating Heatin	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 50Hz 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 49-100) Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200 150 / 210 160 / 220 3-phase indi	2 / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0ix 4120 1.1/4 x 44-1/8) 221) ste 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 umption nt lal finish lasion x D leight exchange Type x Airflow External static pressure Type Output	Cooling Heating Cooling Heating Heating Heating Heating Per Quautity rate 380V 400V 415V	BTU/h kW BTU/h kW BTU/h kW A A A mmm(in.) kg(lbs.) m³/min L/s cfm Pa Pa	3-phase 380-415V 50Hz 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- 100 (Cross fin (Aluminum ple Sirocco 28 467 989 140 / 200 150 / 210 160 / 220 3-phase indi 0.20	2 / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 nized 10 x 1120 1.14 x 44-1/8) 221) ste fin and copper tube) fan x 2 35 583 1236 110 / 190 120 / 200 130 / 210 suction motor 0.23				
Coolin Heatin Power consu Currer Extern Dimen H x W Net we Heat e	g capac g capac umption nt lad finish sision x D eight exchange Type x Airflow External static pressure	Cooling Heating Cooling Heating Heating Heating Heating Processing Heating Processing Pr	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 50Hz 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 49-100) Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200 150 / 210 160 / 220 3-phase indi	2 / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 nized 10 x 1120 1.14 x 44-1/8) 221) ste fin and copper tube) fan x 2 35 583 1236 110 / 190 120 / 200 130 / 210 suction motor 0.23				
Coolin Heatin Power consu Currer Extern Dimen H x W Net we Heat e	g capac g capac umption nt lal finish lasion x D leight exchange Type x Airflow External static pressure Type Output er (option	Cooling Heating Cooling Heating Heating Heating Heating Heating Heating Service Advanced Heating Research He	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 50Hz 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- 100 (Cross fin (Aluminum ple Sirocco 28 467 989 140 / 200 150 / 210 160 / 220 3-phase indi 0.20	2 / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 nized 10 x 1120 1.14 x 44-1/8) 221) ste fin and copper tube) fan x 2 35 583 1236 110 / 190 120 / 200 130 / 210 suction motor 0.23				
Coolin Heatin Power consu Currer Extern Dimen H x W Net we Heat e	g capac g capac g capac imption nt lal finish ision leight exchange Type x Airflow External static pressure Type Output er (optice erant	Cooling Heating Cooling Heating Heating Heating er Quautity rate 380V 400V 415V inn) Gas (Flare)	BTU/h kW BTU/h kW RY kW A A A mm(in.) kg(lbs.) m³/min L/s cfm Pa Pa Pa RW kW	3-phase 380-415V 50Hz 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- 1000 Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200 150 / 210 160 / 220 3-phase indi 0.20 Synthetic fiber unmoven	2 / 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 nized 10 x 1120 1.14 x 44-1/8) 221) ste fin and copper tube) fan x 2 35 583 1236 110 / 190 120 / 200 130 / 210 Juction 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 umption nt lal finish lasion x D leight exchange Type x Airflow External static pressure Type Output er (option	Cooling Heating Cooling Heating Heating Heating Heating Heating Rer Quautity rate Rev 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 R kW	3-phase 380-415V 50Hz 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- 1000 Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200 150 / 210 160 / 220 3-phase indi 0.20 Synthetic fiber unmoven	2 / 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 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 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 umption nt lad finish lasion x D leight exchange Type x Airflow External static pressure Type Output er (option erant iameter	Cooling Heating Cooling Heating Heating Goods (Flare) Liquid (Flare)	BTU/h kW BTU/h kW BTU/h kW kW A A A mm(in.) kg(lbs.) m³/min L/s cfm Pa Pa Pa kW mm(in.)	3-phase 380-415V 50Hz 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 ple Sirocco 28 467 989 140 / 200 150 / 210 160 / 220 3-phase indi 0.20 Synthetic fiber unmoven	2 / 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 10 x 1120 1/4 x 44-1/8) 221) ste 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 Refrigpipe d	g capac g capa	Cooling Heating Cooling Heating Heating Heating Heating Heating Heating Table 1	BTU/h kW BTU/h kW RW kW A A A mm(in.) kg(lbs.) m³/min L/s cfm Pa Pa Pa Rw wm(in.) mm(in.)	3-phase 380-415V 50Hz 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- 100 (Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200 150 / 210 160 / 220 3-phase indi 0.20 Synthetic fiber unmoven ø19.05 (ø3/4)	2 / 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 0.14 × 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) (Ø3/8) ((93/8)				
Coolin Heatin Power consu Currer Extern Dimen H x W Net we Heat e Fan Motor Air filte Refrig pipe d Field di Sound g	g capac g capac g capac umption nt lad finish lasion x D leight exchange Type x Airflow External static pressure Type Type Type Type Type Type Type Typ	er Quautity rate 380V 400V 415V Gas (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 50Hz 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 49-100) Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200 150 / 210 160 / 220 3-phase indi 0.20 Synthetic fiber unmoven ø19.05 (ø3/4) ø9.52 O.D.32	2 / 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 Juction motor 0.23 cloth filter (long life type) 6/22.2 (67/8) (63/8) (1-1/4) 40 / 44				
Coolin Heatin Power consu Currer Extern Dimen H x W Net we Heat e Fan Motor Air filte Refrigpipe d	g capac g capa	Cooling Heating Cooling Heating Heating Heating Heating Heating Heating Table 1	BTU/h kW BTU/h kW RW kW A A A mm(in.) kg(lbs.) m³/min L/s cfm Pa Pa Pa Rw wm(in.) mm(in.)	3-phase 380-415V 50Hz 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- 100 (Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200 150 / 210 160 / 220 3-phase indi 0.20 Synthetic fiber unmoven ø19.05 (ø3/4)	2 / 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 0.14 × 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) (Ø3/8) ((93/8)				

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.

 * 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 ____ Under Ceiling Unit

PCFY-P VKM-E



Designed for ultra-quiet operation and easy maintenance, providing exceptional comfort.



Extra slim, extra stylish

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

Auto vane distributes air evenly

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

Long life filter as standard

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

Keeps airflow at optimum level according to ceiling height

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

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

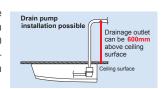
m (ft)

Greatly simplified installation

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

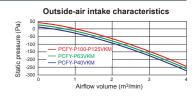
Drain pump option available with all models

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



Outside-air intake

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



Equipped with automatic air-speed adjustment

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



				PCFY-P40VKM-E	PCFY-P63VKM-E	PCFY-P100VKM-E	PCFY-P125VKM-E	
Power	source			1-phase 220-240V 50Hz / 1-phase 220V 60Hz				
Cooling capacity			kW	4.5 7.1 11		11.2	14.0	
Cooling	g capacit	y *1	BTU/h	15,400	24,200	38,200	47,800	
114:-		*1	kW	5.0	8.0	12.5	16.0	
Heating	g capacit	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	ı	Heating	Α	0.28	0.33	0.65	0.76	
Extern	al finish(N	Munsell N	lo.)		6.4Y 8.9			
Dimon	sion H x	W v D	mm	230 x 960 x 680	230 x 1,280 x 680	230 x 1,600 x 680		
Dimen	SION H X	WXD	in.	9-1/16 x 37-13/16 x 26-3/4	9-1/16 x 50-3/8 x 26-3/4	9-1/16 x 63 x 26-3/4		
Net we	ight		kg(lbs.)	24(53)	32 (71)	36 (79)	38 (84)	
Heat e	xchanger	r		•	in and copper tube)	•		
	Type x Quantity			Sirocco fan x 2	Sirocco fan x 3	Sirocco fan x 4		
	Airflow	roto *2	m³/min	10-11-12-13	14-15-16-18	21-24-26-28	21-24-27-31	
Fan	Airflow rate (Lo-Mid2-Mid1-Hi)		L/s	167-183-200-217	233-250-267-300	350-400-433-467	350-400-450-517	
	(LO-IVIIUZ-	-iviiu i-mi)	cfm	353-388-424-459	494-530-565-636	742-847-918-989	742-847-953-1,095	
	External static pressure Pa		Pa	Ö				
NA-4	Туре			DC motor				
Motor Outpu			kW	kW 0.090 0.095		0.160		
Air filte	r			PP Honeycomb (long life)				
Refrige	erant	Gas (Flare)	mm(in.)	ø12.7 (ø1/2)	ø15.88 (ø5/8)	ø15.88 (ø5/8) / ø19.0	95 (ø3/4) (Compatible)	
pipe di	ameter	Liquid (Flare)	mm(in.)	ø6.35 (ø1/4)		ø9.52 (ø3/8)		
Field di	rain pipe	diameter	mm(in.)	<u>'</u>	O.D. 2	6 (1)		
Sound pressure level (Lo-Mid2-Mid1-Hi) *2 *3			dB(A)	29-32-34-36	31-33-35-37	36-38-41-43	36-39-42-44	

- *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							
VHM									
VKM								0	

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 harmonises with virtually any interior, the unit color has been changed from white to pure white.



Built-in signal receiver

PKFY-P VBM features

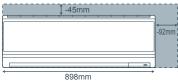
Compact profile

Quiet operation

PKFY-P VHM features

Compact size of 898mm

Width size reduced to match small size buildings and offices.



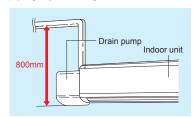
Comparison with PKFY-P VGM-E

Light unit

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

Drain pump (option)

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



				PKFY-P15VBM-E	PKFY-P20VBM-E	PKFY-P25VBM-E	PKFY-P32VHM-E	PKFY-P40VHM-E	PKFY-P50VHM-E	
Power	source			1-phase 220-240V 50Hz / 1-phase 220V 60Hz						
		*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	
Heating		. *1	kW	1.9	2.5	3.2	4.0	5.0	6.3	
Heating	g capacı	^{ty} *1	BTU/h	6,500	8,500	10,900	13,600	17,100	21,500	
Power	C	Cooling *4	kW		0.04			0.04		
consum	nption	leating	kW		0.04			0.03		
Current		Cooling *4	Α		0.20			0.40		
Current	۲	leating	Α		0.20			0.30		
Externa	al finish(Munsell N	No.)		Plastic (1.0Y 9.2/0.2)			Plastic (1.0Y 9.2/0.2)		
Dimens	sion H x	U x D	mm(in.)	295 x 815 x 225 (11-5/8 x 32-1/8 x 8-7/8)			295 x 898	x 249(11-5/8 x 35-3/8	x 9-13/16)	
Net we	ight		kg(lbs.)	10 (23)			13(29)			
Heat ex	xchange	r		Cross fin (Aluminum fin and copper tube)						
	Type x Quantity			Line flow fan x 1						
	Airflow	rate *2	m³/min	4.9-5.0-5.2-5.3	1.0 0.2 0.0 0.0		9-10-11	9-10.5-11.5	9-10.5-12	
Fan	Airflow rate (Lo-Mid2-Mid1-Hi)		L/s	82-83-87-88	82-87-	-93-98	150-167-183	150-175-192	150-175-200	
			cfm			-198-208	318-353-388	318-371-406	318-371-424	
	External static pressure		Pa			0				
Mater	Туре			1-phase induction motor			DC motor			
Motor Output		kW		0.017		0.030				
Air filter				PP Honeycomb						
		Gas	mm(in.)			Ø12 7 (Ø1/2)			ø12.7 (ø1/2) / ø15.88 (ø5/8)	
Refrige	erant	(Flare)	111111(111.)						(Compatible)	
pipe dia	ameter	Liquid	mm(in.)			ø6.35 (ø1/4)	Ø6.35 (Ø1/4) / Ø9.52 (Ø3/8			
	(Flare)		111111(111.)	, ,					(Compatible)	
Field dr	ain pipe	diameter	mm(in.)			I.D.16	6 (5/8)			
Sound pressure level (Lo-Mid2-Mid1-Hi) *2 *3			dB(A)	29-31-32-33	29-31-	-34-36	34-37-41	34-38-41	34-39-43	

Notes:

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

				PKFY-P63VKM-E	PKFY-P100VKM-E			
Power	source			1-phase 220-230-240V 50Hz / 1-phase 220V 60Hz				
0 !:		*1	kW	7.1	11.2			
Cooling	g capacit	^{ty} *1	BTU/h	24,200	38,200			
Hooting		*1	kW	8.0	12.5			
Heating	g capaci	^{ty} *1	BTU/h	27,300	42,600			
Power	С	ooling *4	kW	0.05	0.08			
consun	nption H	leating	kW	0.04	0.07			
0	, C	ooling *4	Α	0.37	0.58			
Curren	ι H	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	ight		kg(lbs.)	21 (46)				
Heat ex	exchanger			Cross fin (Aluminum fin and copper tube)				
	Type x Quantity			Line flow	v fan x 1			
	Airflow	roto *2	m³/min	16-20	20-26			
Fan	Airflow rate (Lo-Hi)		L/s	267-333	333-433			
			cfm	565-706	706-918			
	External static pressure Pa		Pa	0				
Motor	Туре			DC motor				
IVIOLOI	Output kV		kW	0.056				
Air filter				PP Honeycomb				
Refrige	erant	Gas (Flare)	mm(in.)	ø15.88 (ø5/8)	ø15.88 (ø5/8) / ø19.05 (ø3/4) (Compatible)			
pipe di		Liquid (Flare)	mm(in.) ø9.52		(ø3/8)			
Field dr	ain pipe	diameter	mm(in.)	I.D. 16(5/8)				
Sound pressure lev			dB(A)	39-45	41-49			

Notes:

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

Indoor Unit

INDOOR UNIT Wall Mounted Type



MSZ-EF Designer Series and PAC-LV11M-J External LEV Kit*

An exceptional combination of energy efficiency and award winning design, the Designer Series will appeal to those with even the most discerning style.

Three Colours Available

The Designer Series has a slimline profile, and a flat panel façade. Available in glossy white, matte silver or rich black diamond, the Designer Series will suit any application. The Designer Series is an unobtrusive, efficient, and safe heating source which allows you to make the most of valuable floor space.

Superior Filtration

Equipped with a nano-platinum filter which is both antibacterial and deodorising, the filter ensures increased dust catchment and superior air cleaning.

► Specifications

			MSZ-EF25VEW/B/S	MSZ-EF35VEW/B/S	MSZ-EF42VEW/B/S	MSZ-EF50VEW/B/S		
Power source			Single phase 230 V, 50 Hz					
0 1: 0		kW	2.5 3.5		4.2	5		
Cooling Capac	eity	BTU/h	8,530	11,942	14,330	17,060		
Heating Conse	illa e	kW	3.2	4	5.4	5.8		
Heating Capac	ity	BTU/h	10,918	13,648	18,425	19,790		
Power	Cooling	kW		0.014		0.018		
Consumption	Heating	kW	0.027	0.0	31	0.034		
Current	Cooling	Α	0.14	0.14	0.14	0.18		
Current	Heating	Α	0.26	0.3	0.3	0.32		
External finish	_			Classic White, Matte	Silver, Glossy Black			
Dimensions (W	/xDxH)	[mm]	895 x 195 x 299					
Net weight		[kg]	11.5					
Heat exchange	er		Cross fin (Aluminum fin and copper tube)					
	Type x Quantity		Line flow fan x 1					
	Airflow rate Cooling (Lo-SHi)	m3/min	4.6-6.3-8.15-10.5		6.6-7.7-8.9-10.3	6.8-7.9-9.3-11		
Fan	Airflow rate Heating(Lo-SHi)	m3/min	4.6-6.2-8.9-11.9	4.6-6.2-8.9-12.7	6.3-7.8-9.9-12.7	7.3-9-11.1-13.7		
	External static pressure	Pa	N/A					
N4-4	Туре		RC0J40 - DC motor					
Motor Output (C/H)		kW	0.014/0.027	0.014/0.031	0.014/0.031	0.018/0.034		
Air filter			Nano Platinum					
Refrigerant Gas (flare)		mm		12.7				
pipe diameter	Liquid (flare) mm		6.35					
Field drain pipe	e diameter		I.D. 15mm					
"Sound pressu (Lo-Mid-Hi-Shi		dBA	23-29-36-42	24-29-36-42	31-35-39-42	33-36-40-43		

CITY MULTI External LEV Kit for Designer Series High Walls

PAC-LV11M-J

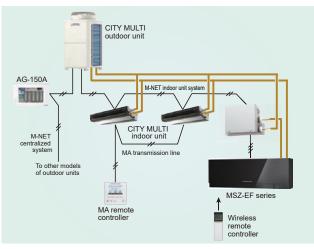
Feature

- Connection between CITY MULTI and Designer Series high walls
- · Wider indoor unit selection options
- · Controllable from MELANS controller
- Compact size 183 x 355 x 142 mm (H x W x D)
- Maximum distance of 15 m between Connection KIT and RAC Indoor unit
- · No need for drain pipe

Specifications

MODEL			PAC-LV11M-J
Power source			Single / 220-240V / 50Hz
Connectable nui	mber of indoor uni	t	1
External finish			Galvanized steel sheet (No external finish)
External dimens	ion H x W x D	mm	183 x 355 x 142
Net weight		kg	3.5
Refrigerant	Liquid pipe	mm	6.35 Brazed
piping diameter	Gas pipe	mm	_
Wiring	To Outdoor unit		2-core shield cable

System Structure



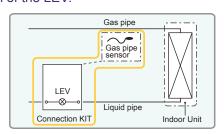
^{*}Refer to the relevant manuals for detailed information and restrictions.

Connectable Models

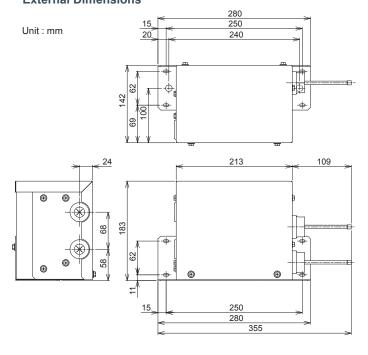


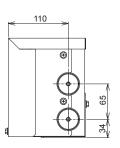
Refrigerant Circuit Diagrams

The gas pipe sensor (packaged, field installed) and the built-in sensor on the RAC units allow for optimum control of the LEV.



External Dimensions





INDOOR UNIT Floor Console

PFFY-P VKM-E2



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



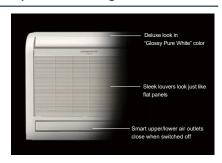
Quiet operation

Mitsubishi Electric air conditioners have always been some of the quietest models available in the market. Our new floorstanding models are no exception. Floor consoles create a quiet, comfortable space and are designed for unobtrusive heating.



Sophisticated Design

From Mitsubishi Electric, an innovative new floor-standing air-conditioner, a mix of streamlined form and diversified



function. Engineered to keep walls free and allowing for comfortable cooling in summer and 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, for a smart and striking look. A superb new air-conditioner from Mitsubishi Electric, providing a handsome fit for your own distinctive interior.

Slim but Mighty

The unit's body is slim and compact; an ideal size for living rooms, bedrooms, and more. The removable and washable front panel makes cleaning a snap. Easy and regular

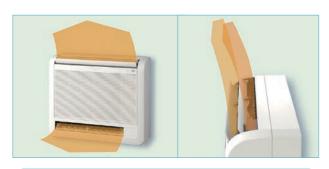


cleaning means your air-conditioner stays pristine while maintaining energy-efficient operation.

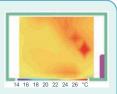
Optimum Air Distribution

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

By setting the vane angle almost vertical, direct air flow can be avoided for increased comfort.



The air from both upper and lower air outlets is optimally controlled and distributed evenly to every corner of the room. In heating mode, the warm air is smartly controlled to stay at the floor level, meaning your feet will never feel chilled again!





► Specifications

				PFFY-P20VKM-E2	PFFY-P25VKM-E2	PFFY-P32VKM-E2	PFFY-P40VKM-E2			
Power	source				1-phase 220	0-240V 50Hz				
0 1:		*1	kW	2.2	2.8	3.6	4.5			
Cooling	g capacit	ty *1	BTU/h	7,500	9,600	12,300	15,400			
Llaatine		*1	kW	2.5	3.2	4.0	5.0			
пеаші	g capaci	^{ty} *1	BTU/h	8,500	10,900	13,600	17,100			
Power		Cooling	kW	0.025	0.025	0.025	0.028			
consun	nption	Heating	kW	0.025	0.025	0.025	0.028			
Curren		Cooling	Α	0.20	0.20	0.20	0.24			
Curren	·	Heating	Α	0.20	0.20	0.20	0.24			
Externa	al finish				Plastic (Pi	ure white)				
Dimens	sion		mm		600 x 70	00 x 200				
H x W x D in.		in.		23-5/8 x 27-	9/16 x 7-7/8					
Net weight kg(lbs.)		kg(lbs.)		15 ((34)					
Heat ex	xchange	r		Cross fin (Alminium plate fin and copper tube)						
		Quantity		Line flow fan x 2						
	Airflow	v rate m³/min		5.9-6.8-7.6-8.7	6.1-7.0-8.0-9.1	6.1-7.0-8.0-9.1	8.0-9.0-9.5-10.7			
Fan	,	d-Hi-SHi)	111 /1111111	0.0 0.0 7.0 0.7	0.1 7.0 0.0 0.1	0.17.0 0.0 0.1	0.0 0.0 0.0 10.7			
	Externa	al static	Pa		C	1				
	pressur	re								
Motor	Туре				DC n					
	Output		kW		0.03	· · · =				
Air filte					PP honeycomb fab					
Refrige		Gas(Flare)	mm(in.)		ø12.7					
		Liquid(Flare)			ø6.35	· /				
		diamete	r	1	I.D.16	5 (5/8)				
	pressured-Hi-SHi		dB(A)	27-31-34-37	28-32-35-38	28-32-35-38	35-38-42-44			

Notes:

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

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

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

INDOOR UNIT Floor Standing Exposed

PFFY-P VLEM-E



Floor mounted exposed type, effective for perimeter installation.



- Standardised design with clean 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 a perimeter zone

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

► Specifications

				PFFY-P20VLEM-E	PFFY-P25VLEM-E	PFFY-P32VLEM-E	PFFY-P40VLEM-E	PFFY-P50VLEM-E	PFFY-P63VLEM-E		
Power	source				1-phase 220-240V 50Hz / 1-phase 208-230V 60Hz						
Cooling	g capacit	*1	kW	2.2	2.8	3.6	4.5	5.6	7.1		
COOMIN	y capacit	, "1	BTU/h	7,500	9,600	12,300	15,400	19,100	24,200		
Hooting	q capacit	., *1	kW	2.5	3.2	4.0	5.0	6.3	8.0		
пеаші	y capacii	^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		
0		Cooling	Α	0.19	0.25	0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47		
Curren	τ	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.)								
			mm	630 x 1,0	50 x 220	630 x 1,1	70 x 220	630 x 1,4	410 x 220		
Dimens	sion H 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	iaht		kg(lbs.)	23	(51)	25 (56)	26 (58)	30 (67)	32 (71)		
Heat ex	Heat exchanger				Cross fin (Aluminum pla	ate fin and copper tube)				
	Type x Quantity			Sirocco	fan x 1		Sirocco	fan x 2			
		. 1	m³/min	5.5	-6.5	7.0-9.0	9.0-11.0	12.0-14.0	12.0-15.5		
Fan	Airflow	rate *2	L/s	92-	108	117-150	150-183	200-233	200-258		
	(Lo-Hi)		cfm	194	-230	247-318	318-388	424-494	424-547		
	External sta	atic pressure	Pa			(0				
	Туре					1-phase ind	uction motor				
Motor	Output		kW	0.0	115	0.018	0.030	0.035	0.050		
Air filte	r					PP Honeycomb f	abric (washable)				
Refrige	erant	Gas (Flare)	mm(in.)			ø12.7 (ø1/2)			ø15.88 (ø5/8)		
pipe di		Liquid (Flare)	mm(in.)			ø6.35 (ø1/4)			ø9.52 (ø3/8)		
Field dr	ain pipe	diameter	mm(in.)		I.D.26 (1)	Accessory hose O.D.2	27 (1-3/32) (top end :20	(13/16))>			
	pressure		dB(A)	34	-40	35-40	38-	-43	40-46		

Notes:

- *1 Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling Indoor: 27°C(81°F)DB/19°C(66°F)WB,Outdoor 35°C(95°F)DB Heating Indoor: 20°C(68°F)DB, Outdoor 7°C(45°F)DB/6°C(43°F)WB
- $^{\star}2$ Air flow rate/Sound pressure level are in (Low-High)
- *4 It is measured in anechoic room.

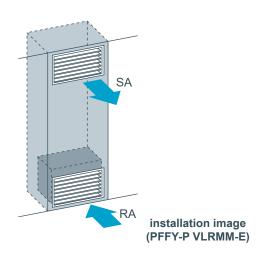
INDOOR UNIT Floor Mounted Concealed Type

PFFY-P VLRMM-E



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





Compact unit for easy air conditioning in a 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 a perimeter zone.

Maximum external static pressure 60Pa (VLRMM model)

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

► Specifications

				PFFY-P20VLRM-E	PFFY-P25VLRM-E	PFFY-P32VLRM-E	PFFY-P40VLRM-E	PFFY-P50VLRM-E	PFFY-P63VLRM-E		
Power	source				1-phase 220-240V 50Hz / 1-phase 208-230V 60Hz						
		*1	kW	2.2	2.8	3.6	4.5	5.6	7.1		
Cooling	g capacit	y *1	BTU/h	7,500	9,600	12,300	15,400	19,100	24,200		
		*1	kW	2.5	3.2	4.0	5.0	6.3	8.0		
Heating	g capacit	y *1	BTU/h	8,500	10,900	13,600	17,100	21,500	27,300		
Power		Cooling	kW	0.04	/ 0.06	0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11		
consu	mption	Heating	kW	0.04	/ 0.06	0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11		
C		Cooling	Α	0.19	/ 0.25	0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47		
Curren	ıt	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	oion II.v	W v D	mm	639 x 88	86 x 220	639 x 1,0	06 x 220	639 x 1,246 x 220			
Dimens	imension H x W x D in.		in.	25-3/16 x 34-1	5/16 x 8-11/16	25-3/16 x 39-	5/8 x 8-11/16	25-3/16 x 49-	1/16 x 8-11/16		
Net we	ight		kg(lbs.)	18.5	(41)	20 (45)	21 (47)	25 (56)	27 (60)		
Heat ex	Heat exchanger				(Cross fin (Aluminum pla	ate fin and copper tube)			
	Type x Quautity			Sirocco	fan x 1		Sirocco	fan x 2			
	Airflow	rate *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-111)		cfm	194	-230	247-318	318-388	424-494	424-547		
	External sta	atic pressure	Pa			(0				
Motor	Type					1-phase inde	uction motor				
IVIOLOI	Output		kW	0.0)15	0.018	0.030	0.035	0.050		
Air filte	r					PP Honeycomb f	abric (washable)				
Refrige	erant	Gas (Flare)	mm(in.)			ø12.7 (ø1/2)			ø15.88 (ø5/8)		
pipe di	ameter	Liquid (Flare)	mm(in.)		ø6.35 (ø1/4)						
Field dr	rain pipe	diameter	mm(in.)		I.D.26 (1)	<accessory hose="" o.d.2<="" td=""><td>27 (1-3/32) (top end :20</td><td>(13/16))></td><td></td></accessory>	27 (1-3/32) (top end :20	(13/16))>			
Sound (Lo-Hi)	pressure	e level *2 *3 *4	dB(A)	34	-40	35-40	38-	43	40-46		

Notes:

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

Floor mounted 60Pa

				PFFY-P20VLRMM-E	PFFY-P25VLRMM-E	PFFY-P32VLRMM-E	PFFY-P40VLRMM-E	PFFY-P50VLRMM-E	PFFY-P63VLRMM-E			
Power	source				1-phase 220-240V 50Hz / 1-phase 220-240V 60Hz							
		*1	kW	2.2	2.8	3.6	4.5	5.6	7.1			
Cooling	g capacit	y *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	0.04	0.05	0.05	0.07			
consu	mption	Heating	kW	0.	04	0.04	0.05	0.05	0.07			
0		Cooling	Α	0.	34	0.38	0.43	0.48	0.59			
Curren	τ	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 1,2	246 x 220			
Dimens	SION TX	WXD	in.	25-3/16 x 34-1	5/16 x 8-11/16	25-3/16 x 39-5/8 x 8-11/16		25-3/16 x 49-	1/16 x 8-11/16			
Net we	ight		kg(lbs.)	18.5	(41)	20 (45)	21 (47)	25 (56)	27 (60)			
Heat exchanger					(Cross fin (Aluminum pla	ate fin and copper tube)				
	Type x 0	Quautity		Sirocco	fan x 1		Sirocco	fan x 2				
	Airflow	rate	m³/min		.5-6.5	6.5-7.5-9.0	8.0-9.5-11.0	10.0-12.0-14.0	11.0-13.0-15.5			
Fan	(Lo-Mid-F		L/s	75-92	2-108	108-125-150	133-158-183	167-200-233	183-217-258			
	(LO-IVIIU-I	")	cfm	159-1	94-230	230-265-318	282-335-388	353-424-494	388-459-547			
	External station	c pressure *2	Pa			20/4						
Motor	Туре					DC n						
IVIOLOI	Output		kW			0.0						
Air filte	r					PP Honeycomb f						
Refrige	rant	Gas	mm(in.)			ø12.7 (ø1/	<u>'</u>		ø15.88 (ø5/8) Brazed			
pipe di		Liquid	mm(in.)			ø6.35 (ø1/	,		ø9.52 (ø3/8) Brazed			
	ain pipe		mm(in.)		()		27 (1-3/32) (top end :20					
Sound p	oressure	20Pa	dB(A)	31-3		27-32-37	30-36-40	32-37-41	35-40-44			
level (Lo	o-Mid-Hi)	40Pa	dB(A)		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			

Notes:

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

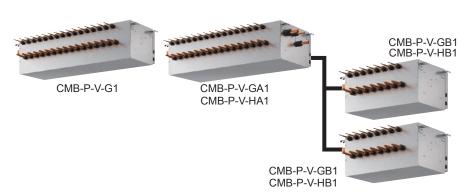
 Cooling Indoor: 27°C(81°F)DB/19°C(66°F)WB, Outdoor 35°C(95°F)DB

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

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

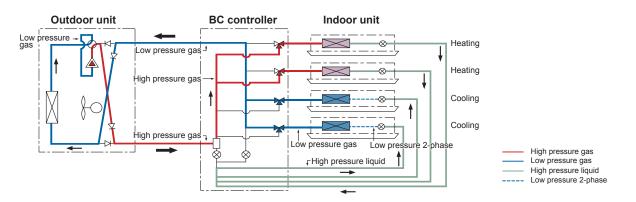
Indoor Unit

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

PURY-P200 — PURY-P350

							I						
Model name							CMB-P106V-G1		1 1 1	CMB-P1013V-G1			
Number of b					4	5	6	8	10	13	16		
Power source	e							220/230/240V 5					
			50Hz	Cooling	0.067/0.076/0.085	0.082/0.093/0.104	0.097/0.110/0.123	0.127/0.144/0.161	0.156/0.177/0.198	0.201/0.228/0.255	0.246/0.279/0.312		
Power input		kW	30112	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		
r ower input		KVV	60Hz	Cooling	0.054/0.061/0.067	0.066/0.074/0.082	0.078/0.088/0.097	0.102/0.115/0.127	0.126/0.141/0.156	0.162/0.182/0.201	0.198/0.222/0.246		
			OUNZ	heating	0.024/0.027/0.030	0.030/0.034/0.038	0.036/0.041/0.045	0.048/0.054/0.060	0.060/0.068/0.075	0.078/0.088/0.097	0.096/0.108/0.119		
			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		
0			SUFIZ	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		Α	0011-	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		
			60Hz	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				Galvanized steel plate (Lower part drain pan painting N1.5)								
Indoor unit capacity					Model P80 or smaller								
connectable	connectable to 1 branch					(•Use optional joint pipe combing 2 branches when the total unit capacity exceeds 81.)							
Connectable	Outdoor unit *					Refe	to the combinati	on chart of BC co	ntroller R2/WR2	series			
Height			mm					284					
Width			mm		648 1098								
Depth			mm		432								
					Connectable outdoor unit capacity								
	To outdoor					P200		P250, P300		P350			
Refrigerant	unit	High	pressure	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	Ø	22.2 (ø7/8) Braze	ed	ø28.58 (ø1-1/8	B) Brazed		
diameter						Indoor u	nit Model 50 or si	maller:ø6.35 braz	ed, Over 50:ø9.5	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 w	ith optional joint p	pipe used.)				
Drain pipe							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	O.D. 32mm	,				
Net weight		kg			24	27	28	33	38	45	52		
		19					rain connection p						
Accessories							Reducer	Apo (WILLI HOAIDIO	nooc and moulat	1011)			
						-17	Cuucci						

► Specifications

Model name					CMB-P108V-GA	.1 CMB-P10	0V-GA1	CMB-F	P1013V-GA1	CMB-P1016V-GA1	CMB-P1016V-HA1
Number of b	ranch				8	10			13	1	6
Power sourc	е						1-pha	se 220/2	30/240V 50Hz/6	0Hz	
			50Hz	Cooling	0.127/0.144/0.16	0.156/0.17	7/0.198	0.201/	/0.228/0.255	0.246/0.279/0.312	
Power input		kW	SUFIZ	heating	0.060/0.068/0.0	0/0.068/0.076 0.075/0.085/0.095		0.097/0.110/0.123		0.119/0.135/0.151	
Power input		KVV	60Hz	Cooling	0.102/0.115/0.12	0.126/0.14	1/0.156	0.162/	/0.182/0.201	0.198/0.2	222/0.246
			00112	heating	0.048/0.054/0.00	0.060/0.06	8/0.075	0.078/	/0.088/0.097	0.096/0.	108/0.119
			50Hz	Cooling	0.58/0.63/0.68	0.71/0.7	71/0.77/0.83 0.92/1.00/1.07		2/1.00/1.07	1.12/1.	22/1.30
Current		_	A heating		0.28/0.30/0.32	0.35/0.3	7/0.40	0.45	5/0.48/0.52	0.55/0.	59/0.63
Current		60Hz Cooling		Cooling	0.47/0.50/0.53	0.58/0.6	2/0.65	0.74	/0.80/0.84	0.90/0.	97/1.03
			00112	heating	0.22/0.24/0.25	0.28/0.3	0/0.32	0.36	6/0.39/0.41	0.44/0.	47/0.50
External finis	h					Galvar	ized steel ¡	olate (Lov	wer part drain pa	n painting N1.5)	
Indoor unit c	apacity							Model F	P80 or smaller		
connectable to 1 branch				(•L	lse optional joint p	ipe combin	ig 2 bran	ches when the to	otal unit capacity exce	eds 81.)	
Connectable	onnectable Outdoor unit 🛨					Refer t	the comb	ination cl	hart of BC contro	ller R2/WR2 series	
Height			mm						289		
Width			mm						1,110		
Depth			mm		520						
							Conn	ectable c	outdoor unit capa	city	
					P200	P250,300	P3	50	P400~P500	P550~P650	P700~P800/P850~P900
	To outdoor unit	High pressure pipe Low pressure pipe		e pipe	ø15.88 (ø5/8) Brazed	ø19.05 (ø	3/4) Braze	d	ø22.2 (ø7/8) Braz	red ø28.58 (ø1-1/8) Brazed	ø28.58 (ø1-1/8) Braze ø28.58 (ø1-1/8) Braze
				pipe	ø19.05 (ø3/4) Brazed	ø22.2 (ø7/8) Brazed		Ø	28.58 (ø1-1/8) B	razed	ø34.93 (ø1-3/8) Braze ø41.28 (ø1-5/8) Braze
						Indoor unit	Model 50 o	r smaller:	ø6.35 brazed, O	ver 50:ø9.52 brazed	•
Refrigerant	To indoor	Liquid	pipe						onal joint pipe us		
piping	unit					Indoor unit Model 50 or smaller:ø12.7 brazed, Over 50:ø15.88 brazed					
diameter		Gas p	ipe				(ø19.05	with opt	ional joint pipe u	sed.)	
					Total indoor unit capacity connected to this Sub BC controller						
	_ " "				~P200	P201~			01~P350	P351~P400	P401~P450
	To another BC	High p	oress ga	as pipe	ø15.88 (ø5/8) Bra	zed	ø19.05 (ø3	05 (ø3/4) Brazed		ø22.2 (ø7/8) Brazed	
	controller	Low p	ress ga	s pipe	ø19.05 (ø3/4) Bra) Brazed	,	Ø	28.58 (Ø1-1/8) Brazed	
		Liquid	pipe		` '	(ø3/8) Brazed	,		ø12.7 (ø1/2		ø15.88 (ø5/8) Braze
Drain pipe						,		0.1	D. 32mm	,	,
Net weight		kg			43	48			55	62	69
Accessories						•Drain con	ection pipe	(with fle	xible hose and ir	nsulation) •Reducer	
										,	
Model name Number of b						04V-GB1		CMB-I	P108V-GB1	CMB	-P1016V-HB1
						4	4 1	000/0	8	01.1-	16
Power sourc	e			O 1:	2 222/2	200/2 272	1-pna		30/240V 50Hz/6		7/0.000/0.004
			50Hz	Cooling		068/0.076			0.135/0.151		7/0.269/0.301
Power input		kW		heating		034/0.038			0.068/0.076		9/0.135/0.151
•			60Hz	Cooling		054/0.060			0.108/0.119		2/0.216/0.237
				heating		027/0.030			0.054/0.060		6/0.108/0.120
			50Hz	Cooling		30/0.32			/0.59/0.63		08/1.17/1.26
Current		Α		heating		15/0.16			/0.30/0.32		55/0.59/0.63
			60Hz	Cooling		24/0.25			/0.47/0.50		88/0.94/0.99
E				heating	0.11/0.	12/0.13			/0.24/0.25		14/0.47/0.50
External finis						Galvar	ized steel p		wer part drain pa	n painting N1.5)	
ndoor unit c	anacity.							MARKET DE	280 or smaller		

INUITIBEL OF BE	anch				4			0			10
Power source	е						1-pha	se 220/230/240V 50Hz	/60Hz		
			50Hz	Cooling	0.060/0.068/0	0.076		0.119/0.135/0.151		0.237	7/0.269/0.301
Power input		kW	3002	heating	0.030/0.034/0	0.038		0.060/0.068/0.076		0.119	9/0.135/0.151
rower input	er input KV		60Hz	Cooling	0.048/0.054/0	0.060		0.096/0.108/0.119		0.192	2/0.216/0.237
			ООПZ	heating	0.024/0.027/0.030		0.048/0.054/0.060			0.096/0.108/0.120	
		50Hz Coolin		Cooling	0.28/0.30/0	.32	0.55/0.59/0.63			1.08/1.17/1.26	
Current		Α	3002	heating	0.14/0.15/0	.16	0.28/0.30/0.32			0.5	5/0.59/0.63
Current		_ ^	60Hz	Cooling	0.22/0.24/0	.25		0.44/0.47/0.50		0.8	8/0.94/0.99
			ООПZ	heating	0.11/0.12/0	.13		0.22/0.24/0.25		0.4	4/0.47/0.50
External finis	h					Galvanized	d steel p	plate (Lower part drain p	oan pain	ting N1.5)	
Indoor unit ca	Indoor unit capacity					Model P80 or smaller					
connectable					(•Use o			g 2 branches when the			eds 81.)
Connectable	Outdoor unit *					Refer to the	e comb	ination chart of BC cont	roller R2	2/WR2 series	
Height		mm			284				284		
Width			mm			64	8				1,098
Depth			mm		102					432	
					Total indoor unit capacity connected this Sub BC controller						
							200, P201~P350		~P200, P201~P450		
	To Main BC				~P200	P201~P30	0	P301~P350	P	351~P400	P401~P450
	controller		ressure	<u> </u>	ø15.88 (ø5/8) Brazed		<u> </u>	/4) Brazed		ø22.2 (ø7	/8) Brazed
Refrigerant			ressure	pipe	ø19.05 (ø3/4) Brazed	ø22.2 (ø7/8) Br	razed		ø28.58	(ø1-1/8) Brazed	
piping		Liquid	pipe		ø9.52 (ø3			ø12.7 (ø1			ø15.88 (ø5/8) Brazed
diameter		Liquid	nine			Indoor unit Mod	lel 50 o	r smaller:ø6.35 brazed,	Over 50	:ø9.52 brazed	
	To indoor	Liquid	p.po				(ø12.7	with optional joint pipe	used.)		
	unit Gas pipe				Indoor unit Model 50 or smaller:ø12.7 brazed, Over 50:ø15.88 brazed						
	Саз рірс				(ø19.05 with optional joint pipe used.)						
Drain pipe	Orain pipe							O.D. 32mm			
Net weight		kg			22 32 55					55	
Accessories						 Drain connecti 	ion pipe	e (with flexible hose and	insulati	on) •Reducer	

★ Combination chart of BC Controller for R2 series

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

★ Combination chart of BC Controller for WR2 series

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

- 1. The equipment is for R410A refrigerant.

 2. Install this product is a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors. (For use in quiet environments with low background noise, position the BC CONTROLLER at least 5 m away from any indoor units.)

 3. Indoor units P100, P125, P140 can be connected to 1 branch. (In this case, cooling capacity decreases a little.)
- decrease a little.)

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

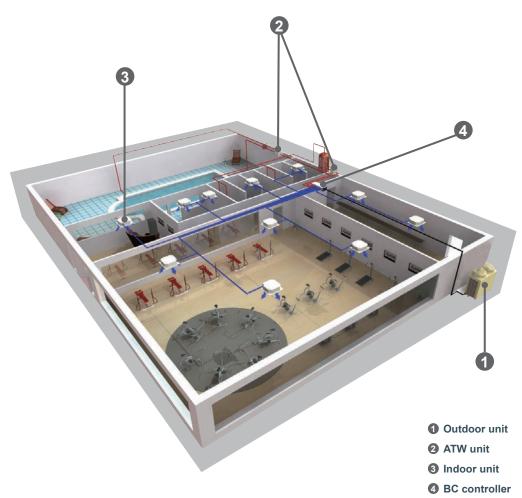
5. For sub BC controller CMB-P-B-GB1 the connectable indoor unit capacities may sum to equal that of a P350 unit or less. However, if two sub controllers are used the TOTAL sum of connectable units connected to BOTH sub controllers must also not exceed that a P350 unit. For sub BC controller CMB-P-1016V-HB1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

PWFY-P100VM-E-BU PWFY-EP100VM-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 the HEX unit offers 40°C in heating and down to 10°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 the environment.

An 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, the Booster unit converts energy from the air to higher temperatures suitable for supplying hot water, resulting in virtually no energy waste.



Connectable to

CITY MULTI R2/WR2 series REPLACE MULTI R2 series

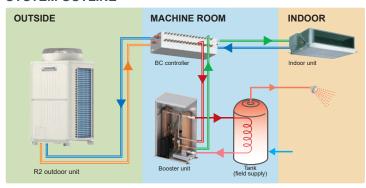
Applications

best for sanitary water, showers, etc.

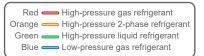
Operation

up to 70°C

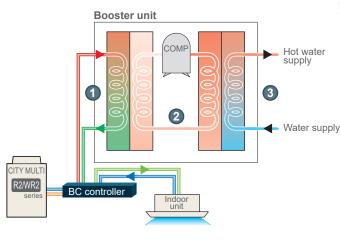
SYSTEM OUTLINE



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 utilised for heating operation to provide 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 utilising waste heat from the R2 outdoor unit for heating operation in the HEX unit, it is possible to supply hot water with high efficiency. Also, even when connected with a Y series system, 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.

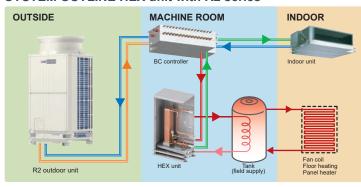
Operation

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

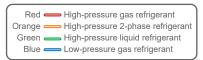


PWFY-EP100VM-E1-AU PWFY-P200VM-E1-AU

SYSTEM OUTLINE HEX unit with R2 series



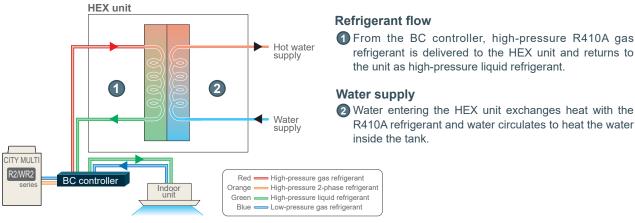
The HEX unit is connected to BC controller with refrigerant pipes, and to the water tank with water pipes. The HEX unit is not equipped with a compressor.



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

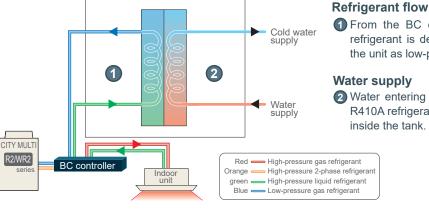
What makes HEX unit unique with R2/WR2 series?





Cold water supply

HEX unit

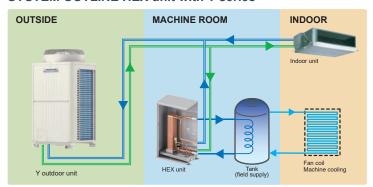


1 From the BC controller, high-pressure R410A liquid refrigerant is delivered to the HEX unit and returns to the unit as low-pressure gas refrigerant.

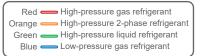
Water supply

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

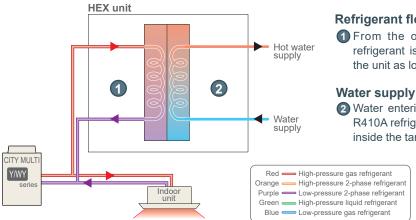


The HEX unit is connected to the Y series outdoor unit with refrigerant pipes, and to the water tank with water pipes. The HEX unit is not equipped with a compressor.

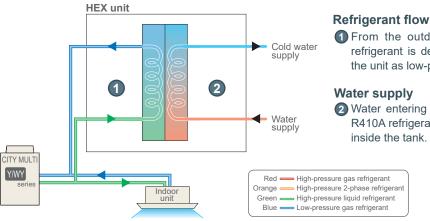


What makes HEX unit unique with Y/WY series?

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.

ATW UNIT HEX Unit

PWFY-EP100VM-E1-AU





▶ Specifications

Model			PWFY-EP100VM-E1-AU		
Power source			1 - phase 220 - 230 - 240V 50 / 60Hz		
Heating capacity (Nominal)) *1	kW	12.5		
		kcal / h	10,800		
	*1	BTU / h	42,700		
	Power input	kW	0.015		
	Current input	Α	0.068 - 0.065 - 0.063		
Temp. range of heating	Outdoor temp.	W.B.	-20 ~ 32°C (-4 ~ 90°F) R2 - series		
· · · · · · · · · · · · · · · · · · ·	for outdoor unit	W.B.	-20 ~ 15.5°C (-4 ~ 60°F) Y - series		
		W.B.	-25 ~ 15.5°C (-13 ~ 60°F) HP (ZUBADAN) - series		
	Circulating Water temp.	-	10 ~ 45°C (50 ~ 113°F) WR2 - series		
	for heat source unit	-	10 ~ 45°C (50 ~ 113°F) WY - series		
	Inlet Water temp. for PWFY	_	10 ~ 40°C (50~104°F) R2/Y/HP (ZUBADAN) /WR2/WY -series		
Cooling capacity (Nominal)		kW	11.2		
cooming dapasity (14011milat)	_	kcal / h	9,600		
		BTU / h	38,200		
	Power input	kW	0.015		
	Current input	A	0.068 - 0.065 - 0.063		
Temp. range of cooling	Outdoor temp.	D.B.	-5 ~ 46°C (23 ~ 115°F) R2 - series		
l remp. range or cooming	for outdoor unit	D.B.	-5 ~ 46°C (23 ~ 115°F) Y - series		
	lor outdoor arm	D.B.	-5 ~ 43°C (23 ~ 110°F) HP (ZUBADAN) - series		
	Circulating Water temp.	-	10 ~ 45°C (50 ~ 113°F) WR2 - series		
	for heat source unit	_	10 ~ 45°C (50 ~ 113°F) WY - series		
	Inlet Water temp. for PWFY	_	10 ~ 35°C (50 ~ 95°F)		
Connectable outdoor unit/	Total capacity		50~100% of outdoor/heat source unit capacity		
heat source unit	Model / Quantity		PUHY-P•Y(S)KB-A1(-BS), PUHY-EP•Y(S)LM-A(-BS), PUHY-HP•Y(S)HM-A(-BS),		
neat source unit	Woder / Quartity		PQHY-P•Y(S)HM-A, PURY-(E)P•Y(S)LM-A(1)(-BS), PQRY-P•Y(S)HM-A		
Sound pressure level (mea	sured in anechoic room)	dR <a>	29		
Diameter of refrigerant pipe		mm (in.)	ø9.52 (ø3/8") Brazed		
Diameter of reingerant pipe	Gas	mm (in.)	ø15.88 (ø5/8") Brazed		
Diameter of water pipe	Inlet	mm (in.)	PT1 Screw (PT3/4 Screw without Expansion joint)		
Diameter of water pipe	Outlet	mm (in.)	PT1 Screw (PT3/4 Screw without Expansion joint) PT1 Screw (PT3/4 Screw without Expansion joint)		
Field drain pipe size	Journer	mm (in.)	# 7 1 30 ew (F 13/4 30 ew without Expansion Joint) ### 832 (1-1/4")		
External finish		111111 (111.)	WO NO		
External dimension H × W	x D	mm	800 (785 without legs) × 450 × 300		
LACITIAI UIITIETISIOTI II A W	0	in.	31-1/2" (30-15/16" without legs) × 4-30 × 300		
Net weight		kg (lbs)	33 (73)		
Circulating water	Operation Volume Range		1.8 ~ 4.30		
Design pressure	R410A	MPa	4.15		
Design pressure	Water	MPa	1.00		
Drawing	External	IVIFa	WKJ94T340		
Diawilly	Wiring		WKE94C951		
Standard attachment	Document		Installation Manual, Instruction Book		
Standard attachment	Accessory		Strainer, Heat insulation material, Expansion joint, Flow switch × 1 set, Buffer material		
Ontional parts	ACCESSULY				
Optional parts			Solenoid valve kit: PAC-SV01PW-E		
Remark			Details on foundation work, duct work, insulation work, electrical wiring, power source		
			switch, and other items shall be referred to the Installation Manual.		

*1Nominal heating conditions (PWFY conditions are indicated in the parentheses.) Note:

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

<WY/WR2-series>

Outdoor Temp. : 7°CDB/6°CWB (45°FDB / 43°FWB) Pipe length: 7.5 m (24-9/16 ft) Level difference: 0m (0ft)

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 4.30m³/h)

(Inlet water Temp. for PWFY side 30°C, Water flow rate 4.30m³/h)

*2Nominal cooling conditions (PWFY conditions are indicated in the parentheses.)

<Y/HP(ZUBADAN)/R2-series> <WY/WR2-series>

Outdoor Temp. : 35°CDB (95°FDB) Pipe length : 7.5 m (24-9/16 ft) Circulating water Temp. : 30°C (86°F)
Pipe length : 7.5 m (24-9/16 ft) Level difference : 0m (0ft) Level difference : 0m (0ft)

(Inlet water Temp. for PWFY side 23°C, Water flow rate 3.86m3/h) (Inlet water Temp. 23°C, Water flow rate 3.86m3/h)

- * 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 or less.
- * Please always make water circulate or pull out the circulation water completely when not using it.
- * Please do not use ground water and well water.
 * Install the outdoor unit (R2-series) in an environment where the wet bulb Temp. will not exceed 32°C.
- * The water circuit must use the closed circuit.
- * Please do not use it as a drinking water.

Unit converter

kcal / h =kW × 860 BTU / h =kW × 3,412 cfm =m³ / min × 35.31 =kg / 0.4536 lbs

* The specification data is subject to rounding variation.



ATW UNIT HEX Unit

PWFY-P200VM-E1-AU





▶ Specifications

Ou He	*1 *1 *1 ower input urrent input utdoor unit/ eat source unit ondition	kW kcal/h BTU/h kW A W.B.	PWFY-P200VM-E1-AU 1-phase 220-230-240V 50 / 60Hz 25.0 21,500 85,300 0.015					
Heating capacity ((Nominal) Po Cu Ou He Temp. range of	*1 *1 *2 *1 *2 *1 *3 *2 *4 *2 *4 *2 ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** *	kcal/h BTU/h kW A W.B.	25.0 21,500 85,300 0.015					
(Nominal) Po Cu Ou He Temp. range of	*1 *1 *2 *1 *2 *1 *3 *2 *4 *2 *4 *2 ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** *	kcal/h BTU/h kW A W.B.	21,500 85,300 0.015					
(Nominal) Po Cu Ou He Temp. range of	*1 ower input urrent input utdoor unit/ eat source unit	BTU/h kW A W.B.	85,300 0.015					
Ou He Temp. range of	ower input urrent input utdoor unit/ eat source unit	kW A W.B.	0.015					
Ou He Temp. range of	urrent input utdoor unit/ eat source unit	A W.B. W.B.						
Ou He Temp. range of col	utdoor unit/ eat source unit	W.B.						
Temp. range of con	eat source unit	W.B.	0.068-0.065-0.063					
Temp. range of con	eat source unit		00 45 500 / 4 000					
Temp. range of con			-20~15.5°C (-4~60°F) Y - series					
	ondition	W.B.	-25~15.5°C (-13~60°F) HP(ZUBADAN) - series					
heating		W.B.	-20~32°C (-4~90°F) R2 - series					
_		-	10~45°C (50~113°F) WY - series					
		-	10~45°C (50~113°F) WR2 - series					
	EX unit inlet water mp.	-	10~40°C (50~104°F)					
•	*2	kW	22.4					
Cooling conceits	*2	kcal/h	19,300					
Cooling capacity	*2	BTU/h	76,400					
(Nominal)	ower input	kW	0.015					
Cu	urrent input	Α	0.068-0.065-0.063					
		D.B.	-5~46°C (23~115°F) Y - series					
Ou	utdoor unit/	D.B.	-5~43°C (23~110°F) HP(ZUBADAN) - series					
	eat source unit	D.B.	-5~46°C (23~115°F) R2 - series					
	ondition	-	10~45°C (50~113°F) WY - series					
cooming	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		10~45°C (50~113°F) WR2 - series					
HE	EX unit inlet water temp.	-	10~35°C (50~95°F)					
	otal capacity		50~100% of outdoor unit/heat source unit capacity					
Connectable outdoor	rian supusity		Y (Standard, Hi-COP), Replace Y,					
	odel / Quantity		HP(ZUBADAN) series, R2 (Standard, Hi-COP),					
unioneat source unit	oder / Quartity		Replace R2, WY series, WR2 series					
Sound pressure level (measure		dB <a>	29					
		mm(in.)	ø9.52 (ø3/8") Brazed					
· -		mm(in.)	ø19.05 (ø3/4") Brazed					
pipo		mm(in.)	PT 1 Screw					
		` ′	PT 1 Screw					
F F -		mm(in.)	ø32 (1-1/4")					
Field drain pipe size		mm(in.)	032 (1-1/4) NO					
External finish			800 (785 without legs) × 450 × 300					
External dimension H × W	٧×D	mm ·	· • • • • • • • • • • • • • • • • • • •					
		in.	31-1/2" (30-15/16" without legs) × 17-3/4" × 11-13/16"					
Net weight		kg(lbs)	38 (84)					
	peration Volume Range	m³/h	1.8~4.30					
Design pressure —	410A	MPa	4.15					
Wa	/ater	MPa	1.00					
L)rawing —	xternal		KD94R274					
VVI	'iring		WKE94C626					
Do	ocument		Installation Manual, Instruction Book					
Standard attachment			Strainer, Connecter, Heat insulation material,					
Ac	ccessory		2 × Connector sets, Expansion joint,					
			Flow switch × 1 set, wire					
Optional parts			Solenoid valve kit: PAC-SV01PW-E					
Remark			Details on foundation work, duct work, insulation work, electrical wiring, power source					
TOMAIN			switch, and other items shall be referred to the Installation Manual.					

Notes:

**1 Nominal heating conditions <\$\text{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 Northinal cooling containers

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

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

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

 * Please do not use groundwater and well water.

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

- * The water circuit must use the closed circuit.

 * Please do not use it as a drinking water.

Indoor Unit

ATW UNIT Booster Unit

PWFY-P100VM-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						
- ,	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						
		mm	800 (785 without legs) × 450 × 300						
External dimension H	× W × D	in.	31-1/2" (30-15/16" without legs) × 17-3/4" × 11-13/16"						
Net weight		kg(lbs)	60 (133)						
	Туре		Inverter rotary hermetic compressor						
	Maker		MITSUBISHI ELECTRIC CORPORATION						
Compressor	Starting method		Inverter						
	Motor output	kW	1.0						
	Lubricant		NEO22						
Circulating water	Operation volume Range	m³/h	0.6~2.15						
	High pressure protect	tion	High pressure sensor, High pressure switch at 3.60 MPa (601 psi)						
Protection on internal	Inverter circuit (COM	P)	Over - heat protection, Over - current protection						
circuit (R134a)	Compressor		Discharge thermo protection, Over - current protection						
5 (: .	Type × original charg	je *2	R134a × 1.1kg (0.50lb)						
Refrigerant	Control		LEV						
	R410A	MPa	4.15						
Design pressure	R134a	MPa	3.60						
0 1	Water	MPa	1.00						
External			WKB94L762						
Drawing	Wiring		WKE94C229						
0	d attachment 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) Level difference : 0m (0ft)

Inlet water Temp 65°C 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.

Controller **Remote Controller PAR-W21MAA**

► Specifications

	O: E	ach group X	: Not available
Item	Description	Operations	Display
ON / OFF	Runs and stops the operation of a group of units	0	0
	Switches between Hot Water / Heating / Heating ECO / Anti - freeze / Cooling		
Operation mode switching	* Available operation modes vary depending on the unit to be connected.	0	0
	* Switching limit setting can be made via a remote controller.		
	Temperature can be set within the ranges below. (in increments of 1°C or 1°F)		
	Heating 30°C ~ 50°C		
	Heating ECO 30°C ~ 45°C		
Water temperature setting	Hot Water 30°C ~ 70°C	0	0
	Anti-freeze 10°C ~ 45°C		
	Cooling 10°C ~ 30°C		
	* The settable range varies depending on the unit to be connected.		
Preset temperature range limit	Preset temperature range setting can be limited via a remote controller.	0	0
	10°C ~ 90°C		
Water temperature display	(in increments of 1°C or 1°F)	×	0
	* The settable range varies depending on the unit to be connected.		
	Individually prohibits operations of each local remote control function : ON / OFF,		
Permit / Prohibit local operation	Operation modes, water temperature setting, Circulating water replacement warning reset.	×	0
	* Upper level controller may not be connected depending on the unit to be connected.		
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
lest full	* 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

If 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			Desc	ription					
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 H	1 ~ W ~ D	mm	462 × 3	20 × 207					
External dimension r	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					

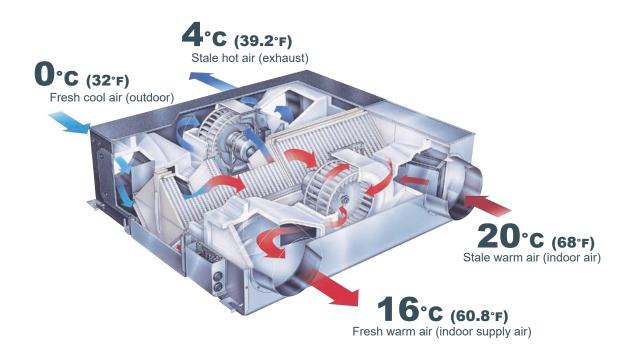


RVX SERIESEnergy Recovery Ventilators



The Ventilation System for Enhanced Air Quality - Lossnay

Combine with Lossnay Ventilation System for enhanced air quality. Unified Control System allows for greater design freedom.



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

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

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

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

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

LGH-80RVX [800m³/h Single phase 220-240V 50Hz] **LGH-100RVX** [1000m³/h Single phase 220-240V 50Hz] **LGH-150RVX** [1500m³/h Single phase 220-240V 50Hz] **LGH-200RVX** [2000m³/h Single phase 220-240V 50Hz]

Heat-exchange efficiency obtainable only with Lossnay.

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

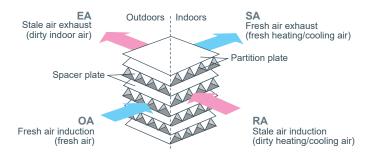
The superior heat-transfer and moisture permeability of the special paper assures highly effective total heat-exchange (temperature and humidity) when inducted and exhausted air supplies cross in the Lossnay core.

LOSSNAY Technology

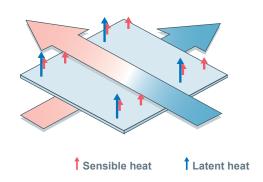
- Two paths ventilation
 - LOSSNAY simultaneously intakes Fresh Air and exhausts Dirty Air.
- Total energy recovery

LOSSNAY returns BOTH sensible heat and latent heat.

A. Two paths ventilation

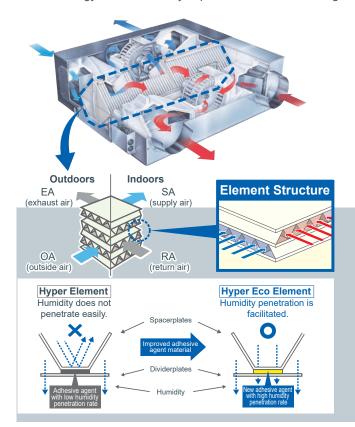


B. Total energy transfer



Hyper Eco Core

Better energy conservation by improved total heat-exchange efficiency.



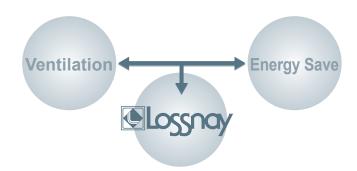
Introducing the new Hyper Eco Element

Mitsubishi Electric'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

- A lack of ventilation makes people sick from stale indoor air including CO2, dust and bacteria
- Opening windows eliminates the stale air, but wastes air-con energy
- So we recommend LOSSNAY
 LOSSNAY simultaneously acheives ventilation and energy saving

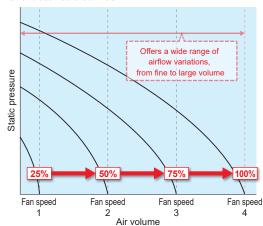


Wide range air volume

The new RVX Lossnay is equipped with four fan speeds. In addition, each speed has a range setting of 25, 50, 75 and 100%, allowing much finer air volume control.

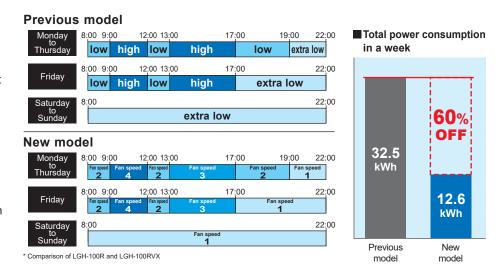
When used in combination with the CO₂ sensor or timer function, the air volume can be controlled according to conditions that realise better performance and reduce power consumption.

■RVX characteristic curves



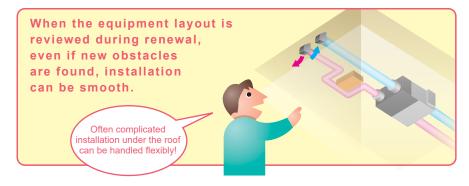
Weekly timer

The operation pattern for each day of the week, ON / OFF and air volume can be set using the weekly timer function (up to eight zones per day). Compared to previous models, much finer operation control contributes to enhanced energy saving operation. With a wider range of air volumes the Lossnay RVX units enable optimised ventilation not just at different times of the day, but for different days of the week as well, enabling further energy savings.



Improved external static pressure

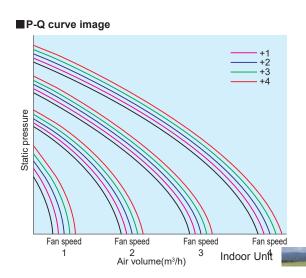
External static pressure has been improved in the new RVX models. By increasing the external static pressure, highly flexible duct work becomes possible, thus renewal from existing equipment is easy.



Fan speed adjustment function

The default fan speed value can be adjusted slightly. Using the PZ-61DR-E remote controller to reset the speed.

- Considering the total hours of Lossnay operation (filter clogging), the fan power can be adjusted automatically after a given period of time.
- After the unit is installed, if the air volume is slightly lower than the desired airflow, it is possible to make fine adjustments.



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).

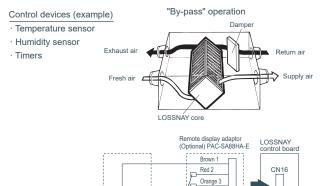
When SW1 is "ON", the ventilation mode of LOSSNAY is changed to the By-pass ventilation regardless of the setting on the remote controller.

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.



SW1

2. Night purge

"By-pass" ventilation can be used to release hot air from inside the building that accumulates in buildings during the hot summer season.

Yellow 4

Green 5

Not used. Insulate completely

3. Office equipment room cooling

SW1: By-pass ventilation operation switch (When closed: For By-pass ventilation operation)

During the cold season, fresh air can be drawn in and used 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.

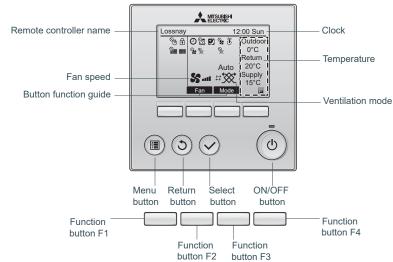
New Remote Controller PZ-61DR-E

A new remote controller for the RVX 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 allows for additional energy conservation.

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

Functions that were set using Dip-Switch on the LOSSNAY main unit can 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 LCD backlit display provides much more information, making it easy to check maintenance indications, operation status display, and explanations required when configuring settings.





Indoor Unit

Specifications

Model line-up



LGH-15~100RVX-E

Model					LGH-1	RVX-E			
Electrical power supply				:	220-240V/50H	łz, 220V/60Hz	:		
Ventilation mode		Heat recovery mode Bypass mode						s mode	
Fan speed		SP4 SP3 SP2 SP1 SP4 SP3 SP2							SP1
Running current (A)		0.40	0.24	0.15	0.10	0.41	0.25	0.15	0.10
Input power (W)		49	28	14	7	52	28	14	8
Air volume	(m³/h)	150	113	75	38	150	113	75	38
Air volume	(L/s)	42	31	21	10	42	31	21	10
External static pressure (Pa)		95	54	24	6	95	54	24	6
Temperature exchange efficiency (%)		80.0	81.0	83.0	84.0	_	_	_	_
Enthalmy sychones officionsy (9/1)	Heating	73.0	75.5	78.0	79.0	-	-	-	-
Enthalpy exchange efficiency (%)	Cooling	71.0	74.5	78.0	79.0	_	_	_	_
Noise (dB) (Measured at 1.5m under of unit in an anechoeic cl		28.0	24.0	19.0	17.0	29.0	24.0	19.0	18.0
Weight (kg)					2	0			

^{*}The Air outlets noise (45 angle, 1.5meters in front of the unit) is about 13dB greater than the indicated value. (at Fan speed 4)

Model			LGH-25RVX-E								
Electrical power supply		220-240V/50Hz, 220V/60Hz									
Ventilation mode			Heat reco	very mode			Bypas	s mode			
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1		
Running current (A)		0.48	0.28	0.16	0.10	0.48	0.29	0.16	0.11		
Input power (W)		62	33	16	7.5	63	35	17	9		
Air volume	(m³/h)	250	188	125	63	250	188	125	63		
Air volume	(L/s)	69	52	35	17	69	52	35	17		
External static pressure (Pa)		85	48	21	5	85	48	21	5		
Temperature exchange efficiency (%)		79.0	80.0	82.0	86.0	_	_	_	_		
Enthalpy exchange efficiency (%)	Heating	69.5	72.0	76.0	83.0	_	_	_	_		
Enthalpy exchange entitlency (%)	Cooling	68.0	70.0	74.5	83.0	_	-	-	_		
Noise (dB) (Measured at 1.5m under of unit in an anechoeic c		27.0	22.0	20.0	17.0	27.5	23.0	20.0	17.0		
Weight (kg)					2	23					

^{*}The Air outlets noise (45 angle, 1.5meters in front of the unit) is about 15dB greater than the indicated value. (at Fan speed 4)
*The running current, the input power, the efficiency and the noise are based on the rating air volume, and 230V/50Hz.
*For the specification at the other frequency contact your dealer.

Model		LGH-35RVX-E								
Electrical power supply		220-240V/50Hz, 220V/60Hz								
Ventilation mode			Heat reco	very mode			Bypas	s mode		
Fan speed		SP4 SP3 SP2 SP1 SP4 SP3 SP2							SP1	
Running current (A)		0.98	0.54	0.26	0.12	0.98	0.56	0.28	0.13	
Input power (W)		140	70	31	11	145	72	35	13	
Air volume	(m³/h)	350	263	175	88	350	263	175	88	
All volume	(L/s)	97	73	49	24	97	73	49	24	
External static pressure (Pa)		160	90	40	10	160	90	40	10	
Temperature exchange efficiency (%)		80.0	82.5	86.0	88.5	_	_	_	_	
Enthalmy exchange officiency (9/)	Heating	71.5	74.0	78.5	83.5	_	_	_	-	
Enthalpy exchange efficiency (%)	Cooling	71.0	73.0	78.0	82.0	_	_	_	_	
Noise (dB) (Measured at 1.5m under of unit in an anechoeic c		32.0	28.0	20.0	17.0	32.5	28.0	20.0	18.0	
Weight (kg) 30										

^{*}The Air outlets noise (45 angle, 1.5meters in front of the unit) is about 12dB greater than the indicated value. (at Fan speed 4)
*The running current, the input power, the efficiency and the noise are based on the rating air volume, and 230V/50Hz.
*For the specification at the other frequency contact your dealer.

^{*}The running current, the input power, the efficiency and the noise are based on the rating air volume, and 230V/50Hz. *For the specification at the other frequency contact your dealer.



LGH-15~100RVX-E

Model		LGH-50RVX-E									
Electrical power supply		220-240V/50Hz, 220V/60Hz									
Ventilation mode			Heat reco	very mode			Bypass	s mode			
Fan speed		SP4 SP3 SP2 SP1 SP4 SP3 SP2							SP1		
Running current (A)		1.15	0.59	0.26	0.13	1.15	0.59	0.27	0.13		
Input power (W)		165	78	32	12	173	81	35	14		
Air volume	(m³/h)	500	375	250	125	500	375	250	125		
Air volume	(L/s)	139	104	69	35	139	104	69	35		
External static pressure (Pa)		120	68	30	8	120	68	30	8		
Temperature exchange efficiency (%)		78.0	81.0	83.5	87.0	_	_	_	_		
Enthalpy exchange efficiency (%)	Heating	69.0	71.0	75.0	82.5	_	_	_	_		
Entrialpy exchange entitlency (%)	Cooling	66.5	68.0	72.5	82.0	_	_	_	_		
Noise (dB) (Measured at 1.5m under the center of unit in an anechoeic chamber)		34.0	28.0	19.0	18.0	35.0	29.0	20.0	18.0		
Weight (kg)			33								

^{*}The Air outlets noise (45 angle, 1.5meters in front of the unit) is about 18dB greater than the indicated value. (at Fan speed 4)
*The running current, the input power, the efficiency and the noise are based on the rating air volume, and 230V/50Hz.
*For the specification at the other frequency contact your dealer.

Model					LGH-6	SRVX-E			
Electrical power supply					220-240V/50H	łz, 220V/60Hz	2		
Ventilation mode			Heat recovery mode Bypass mode						
Fan speed		SP4	SP4 SP3 SP2 SP1 SP4 SP3 SP2						SP1
Running current (A)		1.65	1.65 0.90 0.39 0.15 1.72 0.86 0.38					0.38	0.16
Input power (W)		252	131	49	15	262	131	47	17
Air volume	(m³/h)		488	325	163	650	488	325	163
Air volume	(L/s)	181	135	90	45	181	135	90	45
External static pressure (Pa)		120	68	30	8	120	68	30	8
Temperature exchange efficiency (%)		77.0	81.0	84.0	86.0	_	_	_	_
Enthalpy exchange efficiency (%)	Heating	68.5	71.0	76.0	82.0	_	_	_	_
Cooling Coolin		66.0	69.5	74.0	81.0	_	_	_	_
Noise (dB) (Measured at 1.5m under the center of unit in an anechoeic chamber)		34.5	29.0	22.0	18.0	35.5	29.0	22.0	18.0
Weight (kg)					3	8			

^{*}The Air outlets noise (45 angle, 1.5meters in front of the unit) is about 16dB greater than the indicated value. (at Fan speed 4) *The running current, the input power, the efficiency and the noise are based on the rating air volume, and 230V/50Hz. *For the specification at the other frequency contact your dealer.

Model		LGH-80RVX-E								
Electrical power supply		220-240V/50Hz, 220V/60Hz								
Ventilation mode			Heat reco	very mode			Bypas	s mode		
Fan speed		SP4 SP3 SP2 SP1 SP4 SP3 SP2						SP2	SP1	
Running current (A)		1.82	0.83	0.36	0.15	1.97	0.86	0.40	0.15	
Input power (W)		335	151	60	18	340	151	64	20	
Air volume	(m³/h)	800	600	400	200	800	600	400	200	
All volume	(L/s)	222	167	111	56	222	167	111	56	
External static pressure (Pa)		150	85	38	10	150	85	38	10	
Temperature exchange efficiency (%)		79.0	82.5	84.0	85.0	_	_	_	_	
Enthalpy exchange efficiency (%)	Heating	71.0	73.5	78.0	81.0	_	_	_	_	
Entrialpy exchange entitiency (%)	Cooling	70.0	72.5	78.0	81.0	_	_	_	_	
Noise (dB) (Measured at 1.5m under of unit in an anechoeic c		34.5	30.0	23.0	18.0	36.0	30.0	23.0	18.0	
Weight (kg)			48							

^{*}The Air outlets noise (45 angle, 1.5meters in front of the unit) is about 24dB greater than the indicated value. (at Fan speed 4)

*The running current, the input power, the efficiency and the noise are based on the rating air volume, and 230V/50Hz.

*For the specification at the other frequency contact your dealer.

*Use this unit with static pressure 240Pa or less at Fan speed 4. Otherwise the noise level might be larger.







LGH-15~100RVX-E

LGH-150/200RVX-E

Model					LGH-10	0RVX-E				
Electrical power supply					220-240V/50H	łz, 220V/60Hz	<u>z</u>			
Ventilation mode			Heat reco	very mode			Bypas	s mode		
Fan speed		SP4	SP4 SP3 SP2 SP1 SP4 SP3 SP2							
Running current (A)		2.50	1.20	0.50	0.17	2.50	1.20	0.51	0.19	
Input power (W)		420	200	75	21	420	200	75	23	
Air volume	(m³/h)	1000	750	500	250	1000	750	500	250	
Air volume	(L/s)	278	208	139	69	278	208	139	69	
External static pressure (Pa)		170	96	43	11	170	96	43	11	
Temperature exchange efficiency (%)		80.0	83.0	86.5	89.5	_	_	_	_	
Enthalmy sychones officions (9/)	Heating	72.5	74.0	78.0	87.0	-	-	_	_	
Enthalpy exchange efficiency (%)	Cooling	71.0	73.0	77.0	85.5	_	_	_	_	
Noise (dB) (Measured at 1.5m under of unit in an anechoeic cl		37.0 31.0 23.0 18.0 38.0 32.0 24.0						24.0	18.0	
Weight (kg)				54						

^{*}The Air outlets noise (45 angle, 1.5meters in front of the unit) is about 21dB greater than the indicated value. (at Fan speed 4)

^{*}The running current, the input power, the efficiency and the noise are based on the rating air volume, and 230V/50Hz.

*For the specification at the other frequency contact your dealer.

*Use this unit between static pressure 60Pa and 240Pa at Fan speed 4. Otherwise the motor protection may work and reduce its output or the noise level might be larger.

Model					LGH-15	0RVX-E			
Electrical power supply					220-240V/50H	łz, 220V/60Hz	Z		
Ventilation mode			Heat reco	very mode			Bypas	s mode	
Fan speed		SP4 SP3 SP2 SP1 SP4 SP3 SP2						SP2	SP1
Running current (A)		3.71	1.75	0.70	0.29	3.85	1.78	0.78	0.30
Input power (W)		670	311	123	38	698	311	124	44
Air volume	(m³/h)	1500	1125	750	375	1500	1125	750	375
Air volume	(L/s)	417	313	208	104	417	313	208	104
External static pressure (Pa)		175	98	44	11	175	98	44	11
Temperature exchange efficiency (%)		80.0	82.5	84.0	85.0	_	_	_	_
Enthalmy avalance officionary (9/)	Heating	72.0	73.5	78.0	81.0	_	_	_	_
Enthalpy exchange efficiency (%)	Cooling	70.5	72.5	78.0	81.0	_	_	_	_
Noise (dB) (Measured at 1.5m under of unit in an anechoeic cl		39.0	32.0	24.0	18.0	40.5	33.0	26.0	18.0
Weight (kg)					9	8			

^{*}The Air outlets noise (45 angle, 1.5meters in front of the unit) is about 22dB greater than the indicated value. (at Fan speed 4) *The running current, the input power, the efficiency and the noise are based on the rating air volume, and 230V/50Hz. *For the specification at the other frequency contact your dealer. *Use this unit with static pressure 250Pa or less at Fan speed 4. Otherwise the noise level might be larger.

Ose this unit with static pressure 2501 a or less at 1 an speed 4. Otherwise the holse level might be target.										
Model	LGH-200RVX-E									
Electrical power supply		220-240V/50Hz, 220V/60Hz								
Ventilation mode			Heat reco	very mode			Bypas	s mode		
Fan speed		SP4 SP3 SP2 SP1 SP4 SP3 SP2						SP2	SP1	
Running current (A)	4.88	2.20	0.88	0.33	4.54	2.06	0.87	0.35		
Input power (W)	850	400	153	42	853	372	150	49		
Air volume	(m³/h)	2000	1500	1000	500	2000	1500	1000	500	
All volume	(L/s)	556	417	278	139	556	417	278	139	
External static pressure (Pa)		150	84	38	10	150	84	38	10	
Temperature exchange efficiency (%)		80.0	83.0	86.5	89.5	_	_	_	_	
Enthalmy avahanga afficiancy (9/)	Heating	72.5	74.0	78.0	87.0	_	_	_	_	
Enthalpy exchange efficiency (%)	Cooling	71.0	73.0	77.0	85.5	_	_	_	_	
Noise (dB) (Measured at 1.5m under the center of unit in an anechoeic chamber)		40.0	36.0	28.0	18.0	41.0	36.0	27.0	19.0	
Weight (kg)										

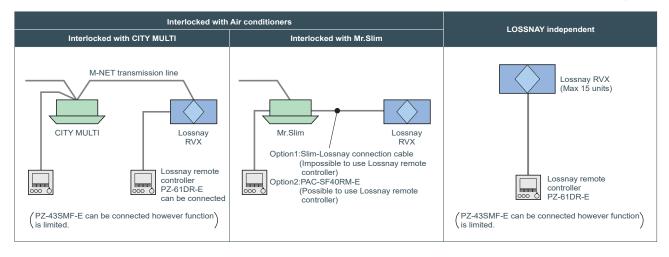
^{*}The Air outlets noise (45 angle, 1.5meters in front of the unit) is about 21dB greater than the indicated value. (at Fan speed 4)

*The running current, the input power, the efficiency and the noise are based on the rating air volume, and 230V/50Hz.

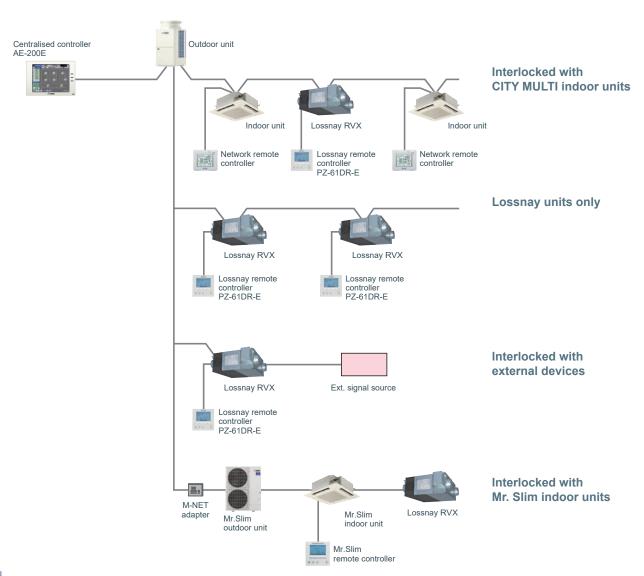
*For the specification at the other frequency contact your dealer.

*Use this unit between static pressure 50Pa and 220Pa at Fan speed 4. Otherwise the motor protection may work and reduce its output or the noise level might be larger.

The new Remote Controller PZ-61DR-E enables simple control setting



Centralised Controller System





VL-100EU5-E Wall switch type



Energy Recovery Ventilator

Enjoy the benefits of Lossnay Heat Recovery Ventilation

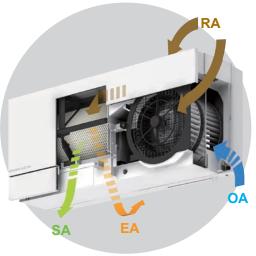
in a wall mounted unit.

Energy Saving

Reduced heat loss contributes to lower air conditioning costs.

Fresh Air

Simultaneous air supply/exhaust function ensures efficient ventilation.



Quiet Operation

Equipped with sound insulation for even quieter operation.

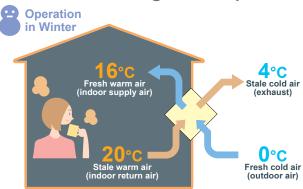
Simple Installation

Easy installation through boring of 2 installation holes.

Stylish Design

Designed to match

Total-Heat-Exchange Concept



•Heat-exchange Temp. equation

 $\begin{array}{ll} Indoor \ supply-air \\ temperature(^{\circ}C) \end{array} = \left\{ \begin{array}{ll} Indoor \\ temperature(^{\circ}C) \end{array} - \begin{array}{ll} Outdoor \\ temperature(^{\circ}C) \end{array} \right\} \times \begin{array}{ll} Temp \ exchange \\ \text{efficiency(\%)} \end{array} + \begin{array}{ll} Outdoor \\ temperature(^{\circ}C) \end{array} \right\} \times \begin{array}{ll} Temperature(^{\circ}C) \end{array}$ temperature(°C)

Calculation example : 16°C = (20°C - 0°C) x 80% + 0°C (Low fan speed)

Operation in Summer



•Heat-exchange Temp. equation

 $\begin{array}{ll} Indoor\ supply-air & Outdoor \\ temperature(^{\circ}C) & - \left\{ \begin{array}{ll} Outdoor & Indoor \\ temperature(^{\circ}C) & - temperature(^{\circ}C) \end{array} \right\} \times \\ \begin{array}{ll} Temp\ exchange \\ \text{efficiency(\%)} \end{array}$

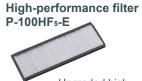
Calculation example : 24°C = 36°C - (36°C - 21°C) x80% (Low fan speed)

Specification

- •Simple installation through boring of 2 installation holes.
- •Low-noise (Less than 30dB at low fan speed).
- •1-motor 2-fan system. •Air-volume:low/high fan speeds.
- •Air-supply/exhaust pipes and a plastic weather cover are included
- •Equipped with an outdoor-air shutter.
- •Wall-switch (VL-100EU₅-E)

	Supply voltage (V)	Power line frequency (Hz)	Fan speed	Air volume (m³/h)	Power consumption (W)	Temp.exchange efficiency (%)	Noise (dB)	Weight (kg)
	220	50	HI	100	30	73	36.5	
	220 50	50	LO	55	13	80	24	
	230 240 220	50	HI	105	31	73	37	
d.			LO	60	15	80	25	7.5
		50	HI	106	34	72	38	7.5
		30	LO	61	17	79	27	
		60	HI	103	34	73	38	
	220	00	LO	57	17	80	25	

Optional Parts



Upgraded highperformance filter.

Replacement filter P-100F5-E

 Standard grade replacement filter.

Extension pipe P-100P-E



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

Extension pipe coupling P-100PJ-E





· Screw-in method

Indoor Unit

Air Handling Unit Controller

PAC-AH-M-J

The Air Handling Unit Controller is an interface to allow connection to third party manufacturers equipment.

Mitsubishi Electric City Multi outdoor units are used with this interface box, creating an ideal solution when a unique air handling unit is required. The Air Handling Unit Controllers are supplied with LEV expansion device(s).

- Discharge or return air temperature control
- Temperature set point by control 0-10VDC
- Auto mode available for ease of application
- Error input
- IP2x rated (only for internal use)





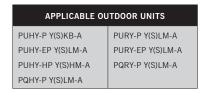
PAC-AH-M-J - AHU Controller

MODEL REFERENCE		PAC-AH125M-J	PAC-AH125M-J	PAC-AH140M-J	PAC-AH250M-J	PAC-AH250M-J	PAC-AH500M-J	PAC-AH500M-J
AIR HANDLING UNIT SIZE		P100	P125	P140	P200	P250	P400*2	P500*2
ALLOWED HEAT EXCHANG (KW) - HEATING (MIN/MAX		10.0 - 12.5	12.5 - 16.0		25.0 - 31.5	40.0 - 50.0	50.0 - 63.0	
ALLOWED HEAT EXCHANG (KW) - COOLING (MIN/MA		9.0 - 11.2	11.2 11.2 - 14.0 14.0 - 16.0 16.0 - 22.4 22.4 - 28.0		36.0 - 45.0	45.0 - 56.0		
ALLOWED HEAT EXCHANGER VOLUME (CM³)		1500 - 2850	1900 - 3550	2150 - 4050	3000 - 5700	3750 - 7100	6000 - 11400	7500 - 14200
REFERENCE AIR FLOW RA	EFERENCE AIR FLOW RATE (M3/H)*3		2500	3000	4000	5000	8000	10000
STANDARD EVAPORATOR PATH NUMBER*1		4 - 5	4 - 5	5 - 6	6 - 10	8 - 10	16 - 20	16 - 20
DIMENSIONS (MM)	WIDTH	328	328	328	328	328	328	328
() = INC MOUNTINGS	DEPTH	104 (122)	104 (122)	104 (122)	104 (122)	104 (122)	104 (122)	104 (122)
	HEIGHT	378 (420)	378 (420)	378 (420)	378 (420)	378 (420)	378 (420)	378 (420)
WEIGHT (KG)		5	5	5	5	5	5	5
PIPE SIZE (MM)	GAS	15.88	15.88	15.88	19.05	22.22	28.58	28.58
	LIQUID	9.52	9.52	9.52	9.52	9.52	12.7	15.88

Note: One air handling unit controller is required per air handling unit. Saturated refrigerant temperature at exit of evaporator = 8.5°C, SH = 5K, liquid temperature = 25°C, air = 27°CDB/19°CWB.

- = 8.5°C, SH = 5K, liquid temperature = 25°C, air = 27°CDB/. *1 When the diameter of the heat exchanger tube is ø9.52.
- *2 P400 and P500 are not compatible with PURY and PQRY.
- \dot{x} 3 If using in combination with standard indoor units, then these figures do not apply.





OA Processing Units

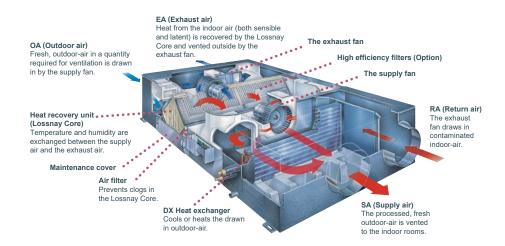
RD4 Series

A Total Air Conditioning Package for 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.

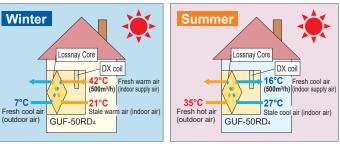


The Air Conditioning Function

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

Temperature simulation (Example : GUF-50RD₄)



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 maximises 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.



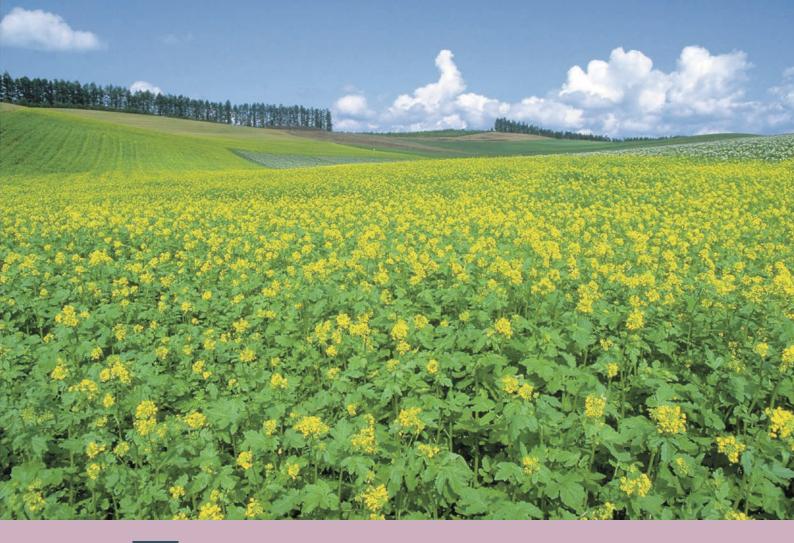
Model				GUF-8	50RD4	GUF-100RD4					
Dower course						040\/ 50\ -					
Power source		*1	kW	E 57	1-phase 220 <1.94>		<4.12>				
Cooling capacity		*1		5.57	<1,650>	11.44 9,800	<3,500>				
Figure in < > is t	•	*1	kcal / h BTU / h	4,800		39.000	<14.000>				
capacity by LOS		- 1	kW	19,000	<6,600>	480-505					
*3	Power input Current input			235-		2.20					
		*2	A kW	6.21	<2.04>	12.56 <4.26>					
Heating capacity Figure in < > is t		*2	kcal / h	5.340	<1.750>	10.800	<3.650>				
0	*	*2	BTU / h	- /	<7.000>	-,	-,				
capacity by LOS			kW	21,200 235-	,	42,850 <14,450> 480-505					
*3	Power input Current input		A	235-			20				
			А	P:			63				
	ent to indoor unit		ka / b	PX		P	03				
Humidifying capa	acity		kg / h lbs / h	-	_						
	Humidifier		IDS / II		-						
External finish	пиппашег			Permeable film humidifier — — Galvanized, with grey insulation sheet							
	on H v W v D		mm	247 v 4 04	24 × 4 500						
External dimension H x W x D mm			in.	317 x 1,01	,	398 x 1,231 x 1,580 15-11/16 x 48-1/2 x 62-1/4					
Notweight				12-1/2 x 4							
Net weight Heat	LOSSNAY core		kg (lbs)	48 (106) 82 (181) Partition, Cross-flow structure, Special preserved paper-plate.							
				Partiti			-plate.				
exchanger	Refrigerant coil				Cross fin (Aluminum fin and copper tube) SA: Centrifugal fan (Sirocco fan) x 1						
FAIN	Type x Quantity				•	,					
	External		Pa	14	n (Sirocco fan) x 1	40					
	static press.	*4	mmH₂O	14			4.3				
	Motor type	4	IIIIIII12U		-						
	Motor output		kW	lotally enclosed	d capacitor permanent sp	iit-phase induction motor	, 4 poies, Zunits				
		nm	NVV	_	Direct drive	un hu matar					
	Driving mechanis Airflow rate	olli	m³ / h	50	Direct-drive	•	200				
	(High value)		L/s	13		1,000 278					
	(Flight value)		cfm	29		589					
Sound pressure	level (Low-High)		CIIII	23	7+	3	09				
(measured in an	() /	*3	dB <a>	33.5-	34.5	38	-39				
Insulation materia	al				Polyeste	er sheet					
Air filter	Supplying air			Non-woven fabrics filter (Gra	avitational method 82%) & Opt	ional part: High efficiency filte	er (Colorimetric method 65%)				
	Exhausting air			Non-woven fabrics filter (Gravitational method 82%)							
Protection device				Fuse							
Refrigerant contr				LEV							
Connectable out	door unit										
Diameter of	Liquid		mm (in.)	ø6.35 (ø′	,	,	3/8) Flare				
refrigerant pipe	Gas		mm (in.)	ø12.7 (ø1	/2) Flare	ø15.88 (ø	5/8) Flare				
Field drain pipe s	size		mm (in.)		Socket (I.D. 32mm (1-1	/4))+O.D. 32mm (1-1/4)					

Notes:

*1 Nominal cooling conditions Indoor: 27°CDB/19°CWB (81°FDB/66°FWB) Outdoor: 35°CDB (95°FDB)

*2 Nominal heating conditions Indoor : 20°CDB (68°FDB) Outdoor : 7°CDB/6°CWB (45°FDB/43°FWB)

- *3 The values are measured at the rated external static pressure.
- *4 The figure in < > indicates the value when external static pressure is changed.



Remote Controller

Individual Remote Controller

Centralised Remote Controller

The Importance of Control

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

Operating an air conditioning system without the right control can prove costly. It's therefore important to ensure that every system is correctly specified to the degree of control it requires. Mitsubishi Electric have a wide range of controls available '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 an AE-200E system - you are in control.

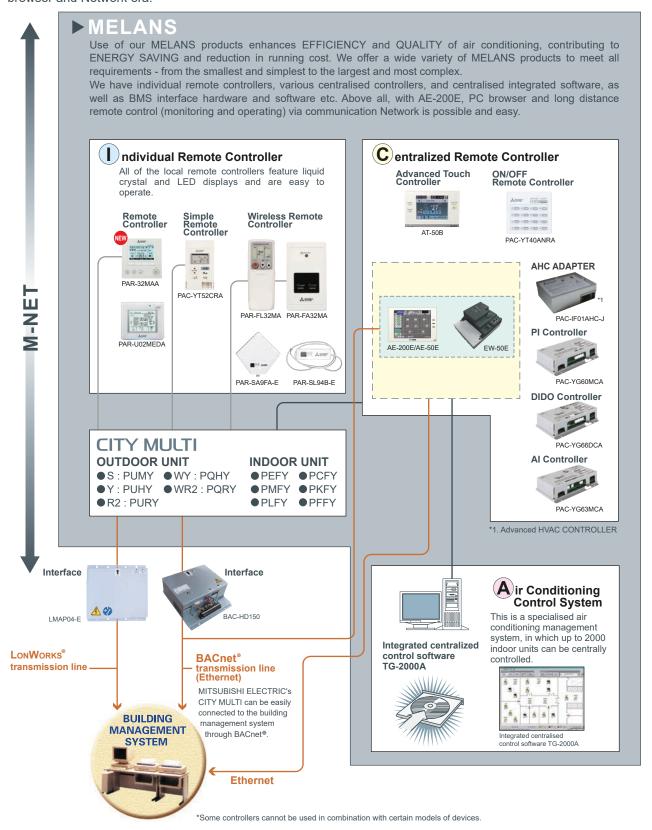






System Controller

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



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

	Local remote controller *9				Sys					Svste	stem controller					*9	
Model	PAR-32MAA	PAR-U02MEDA		PAR-FL32MA	PAC- YT40ANRA	AT-50B	AE-	200E		200E + / EW-50E		V-50E		150A		50A + G50ECA	TG-2000A
Controllable Groups / Indoors (Group / Indoor) *8	1 / 16	1 / 16	1 / 16	1 / 16	16 / 50	50 / 50		/ 50 Browser*4		/ 200 Browser*4		/ 50 E Browser*4		/ 50 Browser*4	150 AG-150A	/ 150 Browser*4	2000 / 2000
■Operating																	
ON / OFF	0	0		0	0	0	I	 	 			 	 	 	 	I	
Mode (cool / heat / dry / fan)	0	0	0	0	N	0	I	 	 	O I	N	◎ ■	 	 	 	 	◎ ■
Temperature-set	0	0	0	0	N	0	I	 	(C)	O I	N	◎ ■	 	 	 	 	© ■
Dual set point *10	0	0	0	N	O*11	0	 	O I	 	O I	N	O I	N	N	N	N	◎ ■
Local Permit / Prohibit	N	N	N	N	N	0		 	 		N	 	 	 	 	0	□ ■
Fan speed	0	0	0	0	N	0	 	O I	(C)	O I	N	O I	 	O I	(C)	 	© ■
Air-flow direction	0	0	0	0	N	0	(C)	O I	(C)	O I	N	O I	 	O I	O I	 	© ■
■Status monitoring																	
ON / OFF	0	0		0	0	0	0	0	0	0	•	0	0	0	0	0	\circ
Mode (cool / heat / dry / fan)	0	0	0	0	N	0	0	0	0	0	N	0	0	0	0	0	0
Temperature-set	0	0	0	0	N	0	0	0	0	0	N	0	0	0	0	0	0
Local Permit / Prohibit	0	0	0	0	0	0	0	0	0	0	N	0	0	0	0	0	0
Fan speed	0	0	0	0	N	0	0	0	0	0	N	0	0	0	0	0	0
Air-flow direction	0	0	0	0	N	0	0	0	0	0	N	0	0	0	0	0	0
Indoor temperature	0	0	0	N	N	0	0	0	0	0	N	0	0	0	0	0	0
Filter sign	0	0	N	N	N	0	0	0	0	0	N	0	0	0	0	0	0
Error flashing	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0
Error code	0	Ō	Ō	N	Ō	0	0	0	0	0	N	0	0	Ō	0	Ō	0
Operation hour	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	•
■Scheduling																	
One-day		0	N	N	N	0	I				N	O		 		⊚ ■	© ■
Times of ON / OFF per day	1	1	N	1	N	16	24	24	24	24	N	24	24	24	24	24	24
Weekly	0	0	N	N	N	0	<u> </u>	_	_		N	□	<u> </u>	<u> </u>	© I	<u> </u>	© I
Times of ON / OFF per week	8 x 7	8 x 7	N	N	N	16 x 7	24 x 7	_	_		N	24 x 7	24 x 7	_	24 x 7	_	24 x 7
Annual	N	N	N	N	N	N	I	 	O		N	O I	 	O I	O I	O I	© I
Optimized start-up	N	N	N	N	N	N	0	0	0	0	N	0	0	0	0	0	0
Auto-off timer	0	0	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	N	1	1	1	1	1	1
■Recording												-					
Error record		l N	N	l N	N	10	10	10	10	101	N	10	10	0	10	0	0
Daily / monthly report	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	©
Electricity charge	N	N	N	N	N	N	N	N	•	N	N	N	N	N	N	N	•
Energy management data	N	N	N	N	N	N	•	•	•	•	N	•	N	N	N	N	N
■Other																	
Temp-set limitation by Local R / C	I 0	1 0	1 0	l N	l N	l N	N	l N	N	N	N	N	N	N	N	N	N
Temp-set limitation by System controller *4	O *6	0	O *6	N	N	O*6	N	O*2*6		O *2 *6	N	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
Night setback	0	0	N	N	N	0	0	O*2		O*2	N	0*2	0	O*2	0	0.2	0
Sliding temperature control	N	N	N	N	N	N	Ō	0*2	ō	O*2	N	0*2	ō	0*2	ō	0*2	0
BACnet® connection	N	N	N	N	N	N	•	•	•	•	•	<u> </u>	N	N	N	N	N
■Management (Group / Int																	
Ventilation interlock	N/O	N/O	N/O	N	0	10	0	0/0	0	0/0	N	0/0	10	0/0	0	0/0	0/0
Group setting	0 1	0	0 1	N	0	0	 0	0'2		0'2	N	0*2	0	0*2	0	0'2	0
Block setting	N	N	N	N	N	N	0	0*2		0*2	N	0*2		0*2	0	0*2	0
Revision of electricity charge	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
■Operating on LOSSNAY				IN	IN	IN	IN	IN	IN	IN	IN	IN	14	IN	IN	IN	
ON / OFF				N / O*7	0/013	1 @/@	010	ا ا	0.0	اهرها	A / A	Java	1010	ماهاه		اهرها	@/@
	N/O	N/O	N/O	N/O*7	◎/◎*³							0/0					0/0
Fan speed	N/O	N/O	N	N	N							0/0					@/@
Ventilation mode	N/N	N N	N	N N	N	O/N	⊎/N	⊎/N	⊎/ N	IIO/N	IN / I	N (⊚ N	⊕/N	IO/N	⊎/N	W/W	O/ N
■Status monitoring on LOS				· '			1	1	1	1 = !		1	1	1		1	
ON / OFF	N/O	N/O	N/O	N	N	0/0											0/0
Fan speed	N/O	N/O	N	N	N							10/0					0/0
Ventilation mode	N	N	N	N	N	O/N	10/N	O/ N	O/ N	IJO/ N	N/N	0/ N	O/ N	10/N	O/ N	O/ N	O/ N

©: Each group / Batched ; ○: Each group ; □: Block (for CITY MULTI Indoor unit, not for all Mr.S.LIM) ; • : AE-200E/AE-50E/EW-50E/AG-150A license registration possible. (): License registration for the optional functions required △: Batched only; ▲: Batched handling (for maintenance) N : Not Available (Not Used.)

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.*12



^{*1.} Group setting via wiring between Indoor units with cross-over cable;

*2. Installation possible at Initial setting web browser;

*3. Inter-lock is set at Local remote controller.

*4. AG-150A license registration to AG-150A is required to monitor and operate the units by browser and TG-2000A. AE-200, AE-50, and EW-50 are standard equipped with the Web Browser. No license registration is required.

5. AG-150A connected with PAC-YG50ECA is compatible with TG-2000A Ver.6.10 or later. AE-200E/AE-50E is compatible with TG-2000A Ver.6.50A or later. EW-50E is compatible with TG-2000A Ver.6.50A or later.

*6. This function can be set only on the MB ermote controller.

This function cannot be used with the MA/Simple MA remote controller.

(But, the validity of this function with the MA/Simple MA remote controller depends on the indoor unit model, and there are possibilities that this function can be used with them.)

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

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

*9. For indoor use only.

The maximum number of confidence units decrease septiments.
 For indoor use only.
 10. This function is supported only when all the indoor units, remote controllers, and system controllers that are connected to a given group features the function.
 11. For the availability of the function, please contact your local distributor.
 12. BAC-HD150 ver. 2.10 and later supports the dual set point function.

Individual _ Remote Controller

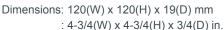


Wired MA remote controller PAR-32MAA

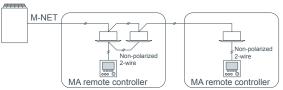
Dual

Point





Example of system configuration



*When a PAR-32MAA is connected to a group, no other MA remote controllers can be connected to the same group.

Draft reduction

"Close" has been added to the manual vane angle selection. The air outlet can be closed to reduce drafts from the air conditioner.

Auto descending panel*

Panels can be lowered/raised using the remote controller. The descending distance of the panel can also be selected.

*The availability of the function depends on the indoor unit model. For details, please contact your local distributor.

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

• 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 8 languages.

English, French, Spanish, Italian, Portuguese, Greek, Turkish, Swedish

• 3D i-See sensor

Settings for 3D i-See sensor can be made.

Functions

i unctions			
	○: Each group	X: Not ava	ilable
Item	Description	Operations	Display
ON/OFF	Switches between ON and OFF.	0	0
Operation mode switching	Switches among Cool/Dry/Fan/Auto/Heat.	0	0
Room temp. setting	The temperature can be set within the following range. Cool/Drying: 19°C - 28°C/40°F - 89°F Heat: 4.5°C - 28°C/40°F - 83°F Auto (single set point): 19°C - 28°C/67°F - 83°F Auto (dual set points) [Cool] Same as the set temp. range for Cool mode. [Heat] Same as the set temp. range for Heat mode. * Set temperature range varies depending on the model.	0	0
Air flow direction setting	Changes airflow direction. * Available airflow directions vary depending on the model.	0	0
Louver setting	Switches between louver ON/OFF.	0	0
Ventilation equipment control	Interlocked setting and interlocked operation setting with the CITY MULTI LOSSNAY units can be made. The Stop/Low/High settings of the ventilation equipment can be controlled.	0	0
Error information	When an error occurs, an error code and the unit address appear. Air conditioning unit model, serial number, and contact number can be set to appear when an error occurs. (The information above needs to be entered in advance.) * An error code may not appear depending on the error.	-	0
Timer	ON/OFF timer Turns ON and OFF daily at a set time. • Time can be set in 5-minute increments. • It is also possible to set the ON time only or the OFF time only. Auto-OFF timer Turns off the unit after a certain period of operation. • Operation time can be set to a value from 30 to 240 minutes in 10-minute increments.	0	0
Allows/disallows local operation	The following operation can be prohibited by making certain settings on the centralized controller: ON/OFF, operation mode setting, temperature setting, fan speed, air direction, and filter sign reset. *While an operation is prohibited, the operation icon lights up (only on the Main display in the "Full" mode).	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	×



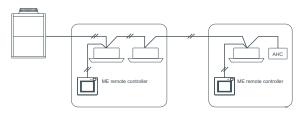
Individual Remote Controller

ME remote controller PAR-U02MEDA



Dimensions : $140(W) \times 120(H) \times 25(D) \text{ mm}$: $5-9/16(W) \times 4-3/4(H) \times 1(D) \text{ in.}$

Example of system configuration



Occupancy Sensor

The occupancy sensor detects vacancy for energy-save control.

Touch Panel & Backlit LCD

The touch panel shows the operation settings screen. When the backlight is off, touching the panel turns the backlight on, and it will stay lit for a predetermined period of time.

LED Indicator

The LED indicator indicates the operation status in different colors. The LED indicator lights up during normal operation, turns off when units are stopped, and blinks when an error occurs.

• Brightness Sensor

The brightness sensor detects the brightness of the room for energy-save control.

• Temperature & Humidity Sensor

The sensor detects the room temperature and the relative humidity.

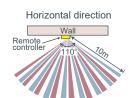
• Device control via AHC (Advanced HVAC Controller)

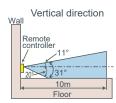
Allows for control of other manufacturer's products connected via AHC.

Auto (Dual Set Point) Modes

Two set temperatures (one each for cooling and heating) can be set.

Occupancy Sensor detection zone





Functions

	○:Each group ×:						
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

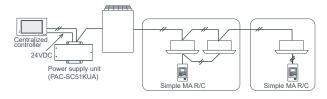
Simple remote controller PAC-YT52CRA (MA)





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 places

Flat Back

Slim, flat design - install without creating a hole in the wall 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 wull 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 $\lceil v_{u} \rceil$ button is pressed.
- The only wiring required is cross-over wiring based on two-wire signal lines
- Room temperature sensors are built-in
- · Can operate all types of indoor units

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

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

Functions

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

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.



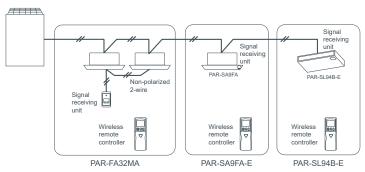


PAR-SL94B-E (Wireless remote controller kit for ceiling suspended)

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

Functions

	○: Each group		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	×

^{*}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.



Centralised 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.

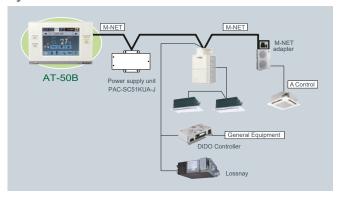


- Temperature will be displayed either in Centigrade in 0.5or 1-degree increments, or in Fahrenheit, depending on the indoor unit model and the display mode setting on the remote controller
- Dual set point

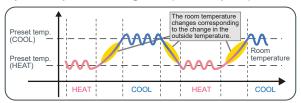
When the operation mode is set to the Auto (dual set point) mode, two preset temperatures (one each for cooling and heating) can be set. Depending on the room temperature, indoor unit will automatically operate in either the Cool or Heat mode and keep the room temperature within the preset range.

*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.

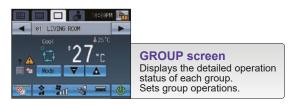
The backlight lights up when the panel is touched, and lights off after certain period of time.

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.	x	
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-YT51HAA (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-YT51HAA (sold separately)) is required. Relays and DC power supply or other devices must be prepared at the site.	0	0
Checking the Gas Amount	Use this function to check for refrigerant leak from the outdoor unit. * When this function is used, the gas amount checking function of the outdoor unit cannot be used. This function is for CITY MULTI R2 and Y (PUMY is excluded.) series only.		
Schedule operation	Weekly schedule setting up to 12 pattern is available. In one pattern, up to 16 setting of "ON/OFF", "Operation mode", "Set Temperature", "Fan speed", "Air flow direction" and "Permit / Prohibit local operation" can be scheduled. Two types of weekly schedule(Summer/Winter) can be set. Today's schedule setting up to 5 pattern in available.	0	0

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



Remote Controller

Centralised Remote Controller



Dual

Point

Centralised controller AE-200E/AE-50E



 $\begin{array}{l} \mbox{Dimensions: } 284(W) \times 200(H) \times 65(D) \mbox{ mm} \\ \mbox{: } 11\text{-}5/32(W) \times 7\text{-}27/32(H) \times 2\text{-}9/16(D) \mbox{ in.} \end{array}$

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 visualising high-load components. Also, comparison of energy consumption with target electric energy is possible.

Comprehensively showing the energy consumption of air conditioning equipment, assisting 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

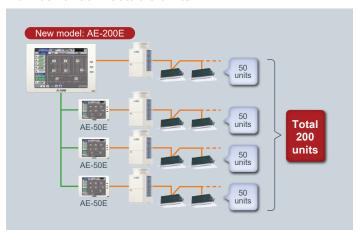
In an easy and flexible manner, an optimum system can be established according to the scale of facilities

- Implements control on up to 50 indoor units of airconditioning equipment
- By using three units of expansion controller "AE-50E", the centralised control is implemented for the maximum of 200 indoor units
- Connection with PC allows implementation of control on more than 200 indoor units via Web browser*1
- *1. Please contact your local distributor for when the feature is supported.

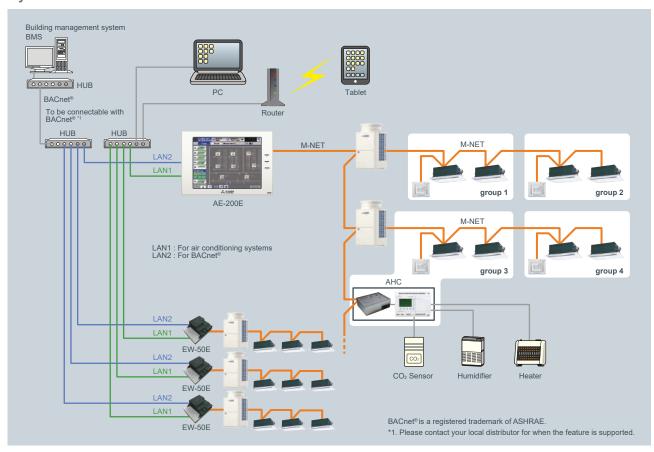
Features for operating and monitoring the hot water heat pump are also available on CAHV, PWFY, and CRHV²

- Centralised 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.

Number of connectable units



System Structure



Functions

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.)	004	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) -35°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)	0040	0
Schedule operation	Weekly schedule can be set by groups based on daily operation pattern.	0040	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.	004	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 occurring 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.	0040	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
nitial 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.

Centralised Remote Controller or Expansion Module for AE200

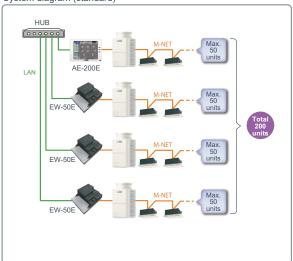
Centralised controller EW-50E



 $\begin{array}{l} \mbox{Dimensions: } 209(W) \ x \ 172(H) \ x \ 92(D) \ mm \\ \mbox{: } 8\text{-}1/4(W) \ x \ 6\text{-}25/32(H) \ x \ 3\text{-}5/8(D) \ in. \end{array}$

System Structure

System diagram (standard)

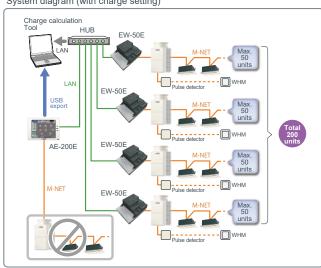


* When M-NET of AE-200E is not used, a maximum of four EW-50E units can be connected

Main Features

- Available as the expansion controller for AE-200E
 Connecting three EW-50E units to an AE-200E makes it possible to operate and monitor a maximum of 200 indoor units.
- Apportioned electricity charge function
 The amount of power consumed by the air conditioners is calculated with the use of AE-200E. The calculated data can be output to the PC via USB memory or LAN, and the charge report can be created with the use of the designated charge calculation tool.
- *The apportioned electricity charge function on AE-200E and TG-2000A cannot be used together.
- *To use the apportioned electricity charge function on AE-200E, check that the version of TG-2000A is 6.60 or later, even if the apportioned electricity charge function on TG-2000A is not used.
- *For other restrictions, refer to the Installation Manual and Instruction Book.

System diagram (with charge setting)



• Enabled to operate and monitor air conditioners independently by using a PC

Even without an AE-200E, EW-50E is possible to monitor and operate air conditioners using a browser software*1. Via the Internet, air conditioners can be monitored and operated from a remote location. In addition, air conditioners in multiple buildings can be operated collectively.*2

* 1. The operation of this product has been confirmed on Internet Explorer 8, IE9, IE10, and IE11, and on Oracle® Java Ver8.

Microsoft® Internet Explorer is a trademark or registered trademark of Microsoft Corporation in the United States and other countries.

Oracle® and Java® are trademarks or registered trademarks of Oracle Corporation, its subsidiaries, and related companies in the United States or

Company names and product names in this brochure may be trademarks or registered trademarks of the respective rights holder.

* 2. When connecting an EW-50E via the Internet, do not directly connect the EW-50E to the Internet. Instead, always connect via a router via a VPN function that can ensure security.

To monitor the indoor units connected to EW-50E, use TG-2000A of Ver. 6.60 or later.







· Manage air conditioner usage conditions It is possible to use a web browser to display the energy consumption of air conditioners in an easy-to-understand manner.







• Operable without the transmission line power supply unit

Because the EW-50E unit is equipped with a power supply function, power supply from a transmission line power supply unit is not necessary.

Since power supply from an outdoor unit is also not necessary, self-sustained operation is possible even when the outdoor unit system goes down. (If the power consumption factor exceeds 1.5, a power supply unit is required.)

• Energy-saving control

By adding an energy-saving control license (optional product), the set temperature can be changed automatically 1 based on the room temperature surrounding each air conditioner. Therefore, energy-saving control is possible without affecting comfort greatly.

* 1. This function changes the set temperature in units of +2°C for cooling and -2°C for heating by the specified time interval. If the difference between the suction temperature and the set temperature is significant, it is possible to exclude it from the energy-saving subject.

Functions

* The functions and specifications are subject to change.

⊚: By group or multiple groups ○: By group □: Batch only

Item	Remarks	Setting	Display
ON/OFF	Switches to ON or OFF air conditioners and general equipment.	0	0
Operation mode switching	Switches to cool, dry, auto, fan, or heat operation. * Depending on the unit, some modes are not available.	0	
Room temperature setting	The temperature can be set within the following range. Cool/Dry: 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
Set temperature 0.5°C	The temperature can be set and displayed in 0.5°C increments.		
increments Fan speed setting	* With some unit combinations, the temperature is set in 1°C increments.	0	0
	The fan speed can be set to 4 levels, 3 levels, 2 levels or automatic. * Available fan speeds differ depending on the unit.	0	
Air direction setting	Fixed swing in five levels or auto air direction can be set. * Available air directions differ depending on the unit.	0	
Prohibition of local remote controller operation	It is possible to disable the ability to use to local remote controller to run or stop, the operation mode, set temperature, filter sign reset, wind speed, wind direction and timer operation. * In the Lossnay group, only ON/OFF and filter reset can be disabled. * Disabling of the fan speed, air direction, and timer operation can be set for the PAC-SF50AT, PAR-36MA, PAR-F30ME, and PAC-YT52CR models.	0	0
Room temperature display	Displays the suction temperature of the indoor unit.	-	
Error display	Displays the current error content together with the address.	I -	0
Schedule operation	Today/weekly/weekly by season/yearly Setting content: ON/OFF, operation mode, set temperature, disable local remote controller, air direction/fan	0	0
Energy management	Displays the power consumption* or operating hours. * Requires an optional part.	_	0
Ventilator operation (solo)	Group operation can be possible for free plan Lossnay units only. * The above group operation mode includes auto ventilation, heat exchange, and normal ventilation.	0	0
Ventilator operation (interlocked)	Free plan Lossnay units and indoor units can be interlocked and operated together. * At this point, air volume can be operated but the ventilation mode cannot be selected.	0	0
External input (timer connection, emergency stop input, etc.)	Using a level signal or pulse signal, it is possible to input the following. Level signal: Emergency Stop Input, Batch ON/OFF, and Demand Input. Pulse signal: Batch ON/OFF or Operation Disable/Enable *Requires an external power supply and separately sold external I/O adapter (PAC-YG10HA). Of the above inputs, only one input can be selected.		_
External output (error output, operation output)	Using the level signal, ON/OFF and Error/Normal are output. *Requires an external power supply and separately sold external I/O adapter (PAC-YG10HA).	_	
Web browser	Monitor/operation, failure, filter sign monitoring, schedule setting, interlocked control setting (option), energy saving control setting (option), energy saving peak cut setting (option), set temperature range restrictions, other	O *1	O *1
Filter reset	Filter sign reset	0	0
Connectable location	Centralized system transmission line: Connectable Recommended Indoor and outdoor transmission line: Connectable	_	_

- * The functions and specifications differ depending on the connected equipment and model.
- * Electric energy can be proportionally divided using the EW-50E alone. But the apportioned electricity charge function requires an AE-200E or TG-2000A.

■Connectable equipment: Free plan direct expansion system air conditioner Inverter air conditioner for facility

Package air conditioner for facility (the AW control model can be connected using an M control compatible indoor unit)

A Control Mr. Slim (Can be connected using an M-NET adapter or special outdoor unit)

Kirigamine room air conditioner (Requires a system control interface or M-NET control interface)

Free plan Lossnay/Lossnay with heating and humidification

Independent humidification unit

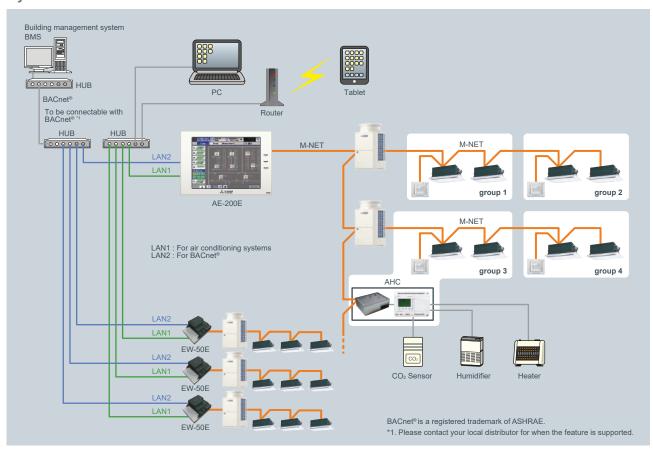
Environmental measuring controller, metering measurement controller, general interface

- * 1. Some items do not support the multi group setting
- and display.

 * 2. Use only items for which the unit has the function.



System Structure



Functions

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.)	004	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) -35°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)	0040	0
Schedule operation	Weekly schedule can be set by groups based on daily operation pattern.	0040	
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.	004	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 occurring 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.	0040	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	004	0
Initial setting software	The initial setting can be configured without the connection of AE-200E. *1	×	X
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.



New Centralised _ Remote Controller

Flexible management ranging from tenant management to centralized management of small scale buildings

► MAIN FEATURES

Available as the expansion controller for AE-200E

Connecting three EW-50E units to an AE-200E makes it possible to operate and monitor a maximum of 200 indoor units.

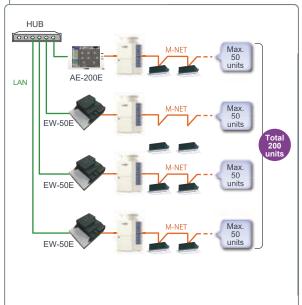
Apportioned electricity charge function

The amount of power consumed by the air conditioners is calculated with the use of AE-200E. The calculated data can be output to the PC via USB memory or LAN, and the charge report can be created with the use of the designated charge calculation tool.

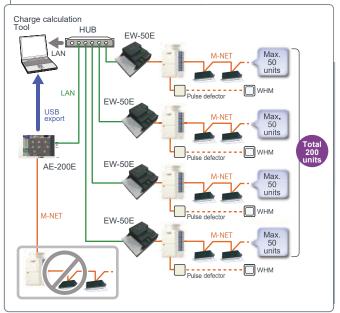
- *The apportioned electricity charge function on AE-200E and TG-2000A cannot be used together.
- *To use the apportioned electricity charge function on AE-200E, check that the version of TG-2000A is 6.60 or later, even if the electricity charge function on TG-2000A is not used.
- *For other restrictions, refer to the Installation Manual and Instruction Book.

[System Structure]

System diagram (standard)



System diagram (with charge setting)



^{*} When M-NET of AE-200E is not used, a maximum of four EW-50E units can be connected.

Enabled to operate and monitor air conditioners independently by using a PC

Web browser or

Even without an AE-200E, EW-50E is possible to monitor and operate air conditioners using a browser software*1. Via the Internet, air conditioners can be monitored and operated from a remote location. In addition, air conditioners in multiple buildings can be operated collectively.*2

* 1. The operation of this product has been confirmed on Internet Explorer 8, IE9, IE10, and IE11, and on Oracle® Java Ver8. Integrated TG-2000A software

Not required
Power supply unit

M_NET

Microsoft® Internet Explorer is a trademark or

registered trademark of $\dot{\text{M}}$ icrosoft Corporation in the United States and other countries.

Oracle® and Java® are trademarks or registered trademarks of Oracle Corporation, its subsidiaries, and related companies in the United States or other countries.

Company names and product names in this brochure may be trademarks or registered trademarks of the respective rights holder.

* 2. When connecting an EW-50E via the Internet, do not directly connect the EW-50E to the Internet. Instead, always connect via a router via a VPN function that can ensure security. To monitor the indoor units connected to EW-50E, use TG-2000A of Ver. 6.60 or later.



Manage air conditioner usage conditions

It is possible to use a web browser to display the energy consumption of air conditioners in an easy-tounderstand manner.







Operable without the transmission line power supply unit

Because the EW-50E unit is equipped with a power supply function, power supply from a transmission line power supply unit is not necessary.

Since power supply from an outdoor unit is also not necessary, self-sustained operation is possible even when the outdoor unit system goes down. (If the power consumption factor exceeds 1.5, a power supply unit is required.)

Energy-saving control

By adding an energy-saving control license (optional product), the set temperature can be changed automatically*1 based on the room temperature surrounding each air conditioner. Therefore, energy-saving control is possible without affecting comfort greatly.

- 1. This function changes the set temperature in units of +2°C for cooling and -2°C for heating by the specified time interval.
 - If the difference between the suction temperature and the set temperature is significant, it is possible to exclude it from the energysaving subject.

► FUNCTIONS

* The functions and specifications are subject to change.

: By group or multiple groups : By group : Batch only

Item	Remarks	Setting	Display
ON/OFF	Switches to ON or OFF air conditioners and general equipment.	0	0
Operation mode switching	Switches to cool, dry, auto, fan, or heat operation. * Depending on the unit, some modes are not available.	0	
Room temperature setting	The temperature can be set in the following range. The values inside the parenthesis are for indoor units for medium temperature. * Depending on the model, the setting temperature range differs. * Cooling/dry: 19°C to 35°C (4.5°C to 30°C) * Heating: 17°C to 28°C (17°C to 28°C) * Auto: 19°C to 28°C (17°C to 28°C)	0	0
Set temperature 0.5°C increments	The temperature can be set and displayed in 0.5°C increments. * With some unit combinations, the temperature is set in 1°C increments.	0	0
Fan speed setting	The fan speed can be set to 4 levels, 3 levels, 2 levels or automatic. * Available fan speeds differ depending on the unit.	0	
Air direction setting	Fixed swing in five levels or auto air direction can be set. * Available air directions differ depending on the unit.	0	
Prohibition of local remote controller operation	It is possible to disable the ability to use to local remote controller to run or stop, the operation mode, set temperature, filter sign reset, wind speed, wind direction and timer operation. * In the Lossnay group, only ON/OFF and filter reset can be disabled. * Disabling of the fan speed, air direction, and timer operation can be set for the PAC-SF50AT, PAR-36MA, PAR-F30ME, and PAC-YT52CR models.	0	0
Room temperature display	Displays the suction temperature of the indoor unit.	_	0
Error display	Displays the current error content together with the address.	_	0
Schedule operation	Today/weekly/weekly by season/yearly Setting content: ON/OFF, operation mode, set temperature, disable local remote controller, air direction/fan	0	0
Energy management	Displays the power consumption* or operating hours. * Requires an optional part.	_	0
Ventilator operation (solo)	Group operation can be possible for free plan Lossnay units only. * The above group operation mode includes auto ventilation, heat exchange, and normal ventilation.	0	0
Ventilator operation (interlocked)	Free plan Lossnay units and indoor units can be interlocked and operated together. * At this point, air volume can be operated but the ventilation mode cannot be selected.	0	0
External input (timer connection, emergency stop input, etc.)	Using a level signal or pulse signal, it is possible to input the following. Level signal: Emergency Stop Input, Batch ON/OFF, and Demand Input. Pulse signal: Batch ON/OFF or Operation Disable/Enable *Requires an external power supply and separately sold external I/O adapter (PAC-YG10HA). Of the above inputs, only one input can be selected.		_
External output (error output, operation output)	Using the level signal, ON/OFF and Error/Normal are output. *Requires an external power supply and separately sold external I/O adapter (PAC-YG10HA).	_	
Web browser	Monitor/operation, failure, filter sign monitoring, schedule setting, interlocked control setting (option), energy saving control setting (option), energy saving peak cut setting (option), set temperature range restrictions, other	◎ *1	O *1
Filter reset	Filter sign reset	0	0
Connectable location	Centralized system transmission line: Connectable Recommended Indoor and outdoor transmission line: Connectable		_

- * The functions and specifications differ depending on the connected equipment and model.
 * Electric energy can be proportionally divided using the EW-50E alone.
- Electric energy can be proportionally divided using the EW-50E alone.

 But the apportioned electricity charge function requires an AE-200E or TG-2000A.
- Connectable equipment: Free plan direct expansion system air conditioner
- Inverter air conditioner for facility

 Package air conditioner for facility (the AW control model can be connected using an M control compatible indoor unit)

A Control Mr. Slim (Can be connected using an M-NET adapter or special outdoor unit) Kirigamine room air conditioner (Requires a system control interface or M-NET control interface)

Free plan Lossnay/Lossnay with heating and humidification Independent humidification unit $^{\circ 2}$

Environmental measuring controller, metering measurement controller, general interface

- 1. Some items do not support the multi group setting and display.
- * 2. Use only items for which the unit has the function.



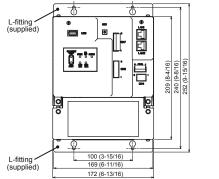
SPECIFICATIONS -

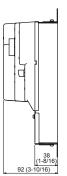
Item	Description			
No. of indoor units that can be connected and controlled	Up to 50 units*1	per EW-	50E	
Monitoring/operation	Web-based mo	nitoring a	nd operation, or monitoring and operation through the AE-200E LCD display	
Product dimensions	209 mm (H) ×1	72 mm (V	V) × 92 mm (D)	
Power supply	AC100 to AC24	40V (50/6	0Hz)	
Power feeding coefficient	1.5			
Communication I/F	Power supply f	rom the m	nain unit (power supply switching connector: CN40)	
Communication //	M-NET/LAN (100BASE-TX)			
Operating environment	Temperature	-10 to 5	55°C	
Operating environment	Humidity	30 to 90	0% RH (Non-condensing)	
Installation conditions	Only in a metal control box Note: For indoor installation only 2			
Housing material	Electro-galvar	nized stee	el sheet	
	Power supply, ground		Recommended type: VCT, VVF, VVR or its equivalent	
Applicable wire size			Wire size: 2mm² or more (Ø1.6mm or more)	
Applicable wife size	M-NET		2-core cable with shielded wire	
	IVI-INE I		CPEVS: Ø1.2mm to Ø1.6mm CVVS: 1.25mm² to 2mm²	

^{*1.} Depending on the indoor unit model used, the maximum number of units that can be managed may be less. If the DIDO controller (PAC-YG66DCA) is used, the number of units is less due to the number of channels provided. (1ch corresponds to one managed unit.)
*2. The product should be used in a business office environment, or the equivalent.

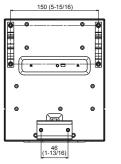
EXTERNAL DIMENSIONS

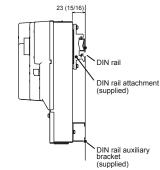
■ When using L-fittings





■ When using DIN rail





Remote ON/OFF Group Control

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

ON/OFF remote controller PAC-YT40ANRA

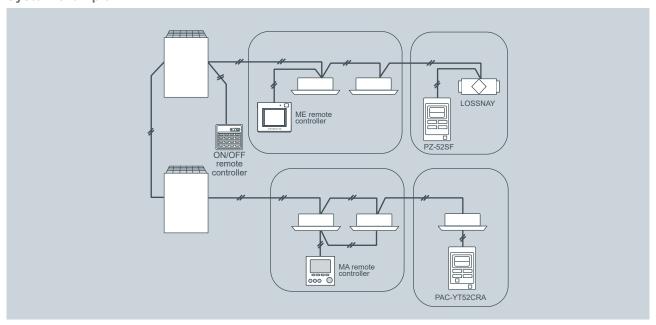




- The group setting is kept in nonvolatile memory. No need to worry about re-setting after a power failure
- No individual AC power supply is needed The power can be supplied from one outdoor unit (R410A) or Power supply unit

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 INDIGATION	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.		
VENTU ATION OPERATION	The LOSSNAY will run in interlock with the operation of indoor unit.		
VENTILATION OPERATION	*The fan rate and mode cannot be changed.	/	/
(INTERLOCKED)	The LED will turn ON only during operation after interlocking.		
EXTERNAL INPUT	On/Off/Fire Alarm *	/	_
EXTERNAL OUTPUT	On/Off/Faults *	_	/

* Applicable to collective only Not applicable to groups

Advanced _____ HVAC Controller

PAC-IF01AHC-J + PLC



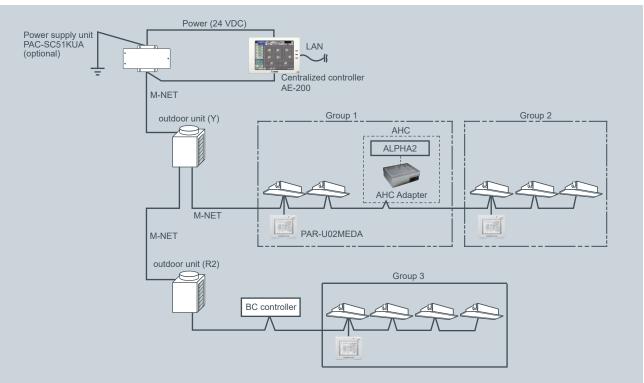
Dimensions: 116(W) x 90(H) x 40(D) mm : 4-9/16(W) x 3-1/2(H) x 1-9/16(D) in. Advanced HVAC Controller (hereafter referred to as AHC) comprises of Mitsubishi Electric's AHC Adapter (PAC-IF01AHC-J) and $\alpha 2$ Simple Application Controller* (hereafter referred to as ALPHA2).

*α2 Simple Application Controller is one of the Programming Logic Controllers that are manufactured by Mitsubishi Electric Corporation.

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

- ① Controls external devices using the sensor data of the air conditioning units connected to M-NET.
- ② Interlocks the operation of air conditioning units and external devices that are connected to ALPHA2.
- 3 Controls air conditioning units that are connected to M-NET.
- 4 Allows for the combined use of the items 1-3 above.
- (5) Monitors the input/output status of ALPHA2 via a remote controller or a centralised controller.
- * Refer to the manual that came with ALPHA2 for information about ALPHA2.
- * The use of AHC ADAPTER requires either a remote controller or a centralised controller.

System Structure





Remote Controller

Energy Monitoring Control

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.

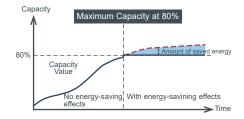
*24 VDC power needs to be provided on site.

Energy Saving Control (Peak Cut)

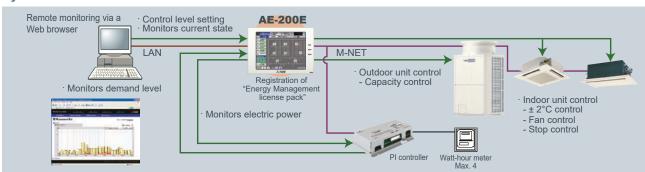
Enables Energy Saving Control with the use of our new PI controller. (Registration of "Energy Management license pack" is required.)

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.



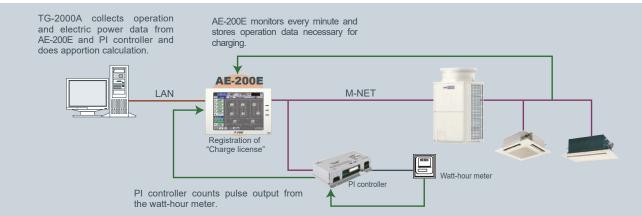
System Structure



Charge Calculation

Enables charge calculation for each tenant and output as CSV file

System Structure



General Equipment Control

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, saving costs.

Up to 6 general-purpose equipment can be connected to the DIDO controller.

*24 VDC power needs to be provided on site.

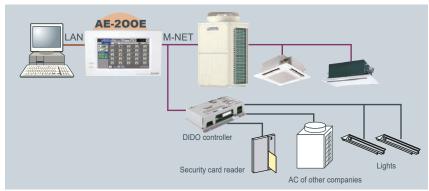
General-purpose equipment control

Enables control and monitoring of 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



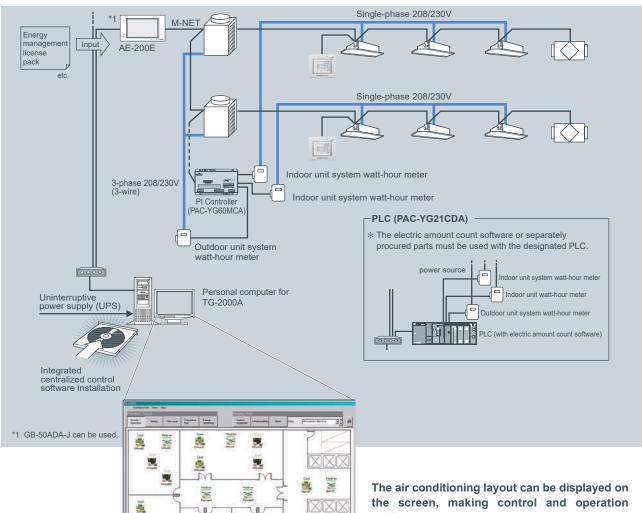


Remote Controller

Integrated centralised control software TG-2000A

Example of Basic System Configuration





easier.

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.

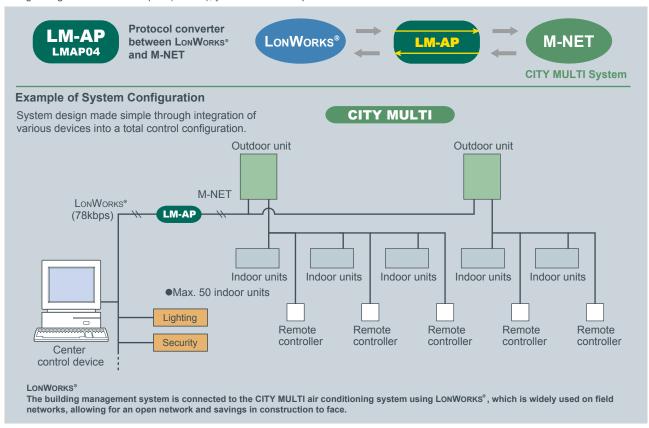
BMS Interface Modules

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.



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

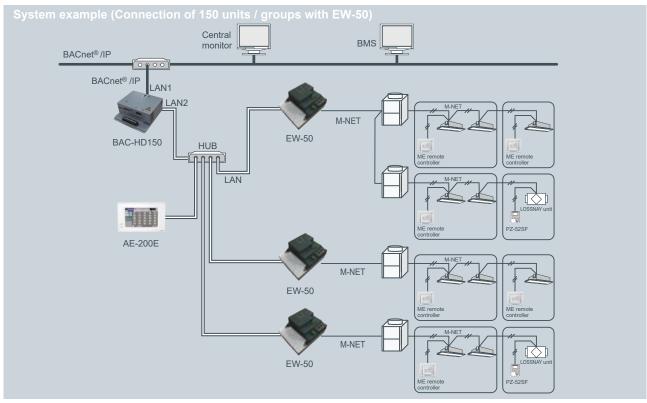
BACnet® (BAC-HD150)

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

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

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

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.



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/VFM)

Description	Model	Applicable capacity		
Description	Model	VBM	VFM	
D	SLP-2FA (L) (E)	-	P15, P20, P25, P32, P40, P50	
Decoration panel	PLP-6BA	P20, P25, P32, P40, P50, P63, P80, P100, P125	_	
Automatic Filter Elevation Panel	PLP-6BAJ	P20, P25, P32, P40, P50, P63, P80, P100, P125	_	
Multi-functional casement	PAC-SH53TM-E	P20, P25, P32, P40, P50, P63, P80, P100, P125	_	
High-efficiency filter element	PAC-SH59KF-E	P20, P25, P32, P40, P50, P63, P80, P100, P125	_	
Wireless signal receiver	PAR-SA9FA-E	P20, P25, P32, P40, P50, P63, P80, P100, P125	_	
	PAR-SF9FA-E	-	P15, P20, P25, P32, P40, P50	
Space panel	PAC-SH48AS-E	P20, P25, P32, P40, P50, P63, P80, P100, P125	=	
"i-see" sensor corner panel	PAC-SA1ME-E	P20, P25, P32, P40, P50, P63, P80, P100, P125	_	
	PAC-SF1ME-E	_	P15, P20, P25, P32, P40, P50	
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
	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	
Filter box	PAC-KE63TB-F	P40, P50, P63	
	PAC-KE80TB-F	P71, P80	Necessary when long life filter is used
	PAC-KE140TB-F	P100, P125, P140	Necessary when long me men is used
	PAC-KE250TB-F	P200, P250	

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

<i>J</i> /1			
Description	Model	Applicable capacity	
	PAC-KE91TB-E	P20, P25, P32	
	PAC-KE92TB-E	P40,P50	
Filter box	PAC-KE93TB-E	P63, P71, P80	
	PAC-KE94TB-E	P100, P125	
	PAC-KE95TB-E	P140	

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

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

>>Ceiling suspended type (PCFY-VKM)

Description	Model	Applicable capacity
Drain pump kit	PAC-SH83DM-E	P40
	PAC-SH84DM-E	P63,100,125
High efficiency filter	PAC-SH88KF-E	P40
	PAC-SH89KF-E	P63
	PAC-SH90KF-E	P100,125
Wireless remote controller kit	PAR-SL94B-E	P40.63.100.125

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

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

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

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

OPTIONAL PARTS FOR OUTDOOR UNITS

>>For PUMY series

Description	Model
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)	CMY-Y2025-G2	The 1st branch of P400~P650YSKB / EP400~EP600YSLM
	ONAV VOCCO CO	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)
	CIVI 1-12025-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)		
	GW11-12025-G2	The first branch of P450-P650		
	CMY-Y302S-G2	651 or above (Total capacity of indoor unit)		
	CMY-Y104C-G	For 4 branches		
Branch pipe (Header)	CMY-Y108C-G	For 8 branches		
	CMY-Y1010C-G	For 10 branches		
Twinning kit	CMY-Y100VBK3	For PQHY-P400~P600YSLM-A		
TWITTING KIL	CMY-Y200VBK2	For PQHY-P700~P900YSLM-A		

>>For PQRY series

Description	Model	Remarks		
Branch nine (laint)	CMY-Y102SS-G2	200 or below (Total capacity of indoor unit)		
Branch pipe (Joint)	CMY-Y102LS-G2	201~400 (Total capacity of indoor unit)		
Twinning kit	CMY-Q100CBK2	For PQRY-P400~P600YSLM-A		
Twitting Kit	CMY-Q200CBK	For PQRY-P700~P900YSLM-A		

OPTIONAL PARTS FOR CONTROL

Model	Description	
Model	Description	
PAC-SE41TS-E	Remote Sensor for A/J/K/M-Net Control	
PAC-SE55RA-E	Remote ON/OFF adaptor for Indoor Unit	
PAC-SA88HA-EP	Remote Display Adaptor for Indoor Unit	
PAC-SA89TA-EP	Timer Adaptor for remote controller	
PAC-SC37SA-E	Output signal connector	
PAC-SC36NA-E	Input signal connector	
PAC-SF46EPA	Transmission booster	
LMAP04-E	Air conditioner interface	
PAC-YG11CDA	Electric amount count software	
BAC-HD150	BAC net® and M-NET adapter	
PAC-YT51HAA-J	External input/output adapter for AT-50B	
PAC-YG10HA External input/output adapter for AE-200E / AG-150A		

Model	Description
PAC-YG50ECA	Expansion controller for AG-150A
PAC-SC51KUA	Power supply unit for AG-150A
PAC-YG81TB	Mounting attachment B type for AG-150A wall-mount installations
PAC-YG82TB	Mounting attachment for AE-200E wall-mount installations
PAC-YG83UTB	Electric box for AG-150A wall-embed installations
PAC-YG84UTB	Electrical box for AE-200E wall-embed installations
PAC-YG85KTB	Mounting attachment A type for AG-150A/PAC-SC51KUA wall-mount installations
PAC-YG86TK	Mounting kit for AE-200E wall-mount installations
PAC-YG71CBL	Black surface cover for AG-150A
PAC-YG72CWL	Surface cover with USB port for AE-200E

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 systems described in this catalogue are designed and intended for human comfort, and are not designed for the preservation of food, animals, plants, precision equipment or art objects. Do not use the product for any purpose other than what it is designed for.
- Due to the risks associated with water leakage and electric shock, do not use the product for air conditioning vessels or vehicles.

1-2. Installation Environment

- Do not install the unit in an environment where the voltage fluctuates, or in commercial kitchen areas where large amounts of mineral oil (e.g. cutting oil) are present, or large amounts of steam are produced.
- Do not install the unit in an acidic or alkaline environment.
- Do not install the unit in locations which are exposed to chlorine or other corrosive gases. Avoid installation near sewers.
- 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, which must be considered when choosing the installation position as the unit may interfere with antenna or other electronic devices in the immediate area. It is recommended that the unit should be installed at a distance from these devices.
- The unit should be installed on a solid foundation according to local safety measures associated with extreme weather, wind gusts and earthquakes to prevent the unit from tipping or falling and incurring damage.

1-3. Backup System

• For air conditioning installations where a malfunction could exert critical influence, it is recommended that two or more systems of single outdoor with multiple indoor units are used as backup.

1-4. Unit Characteristics

- In areas where the outdoor temperature is low and the humidity is high, the heat exchanger on the outdoor unit will tend to collect frost, which can affect heating performance. To remove the frost, Auto-defrost function will be activated which will temporarily stop the heating mode for up to several minutes. Heating mode will automatically resume upon completion of the defrost process.
- Heat pump air conditioners require time to warm an entire room immediately after heating operation begins, requiring the indoor unit to circulate warm air to the entire space.
- The sound levels referred to in this catalogue were obtained from test results performed in an anechoic room. The sound levels during actual operation may vary from the simulated results due to ambient noise and acoustic characteristics of the room. Refer to the section "Sound Levels" in the Data Book for the actual measurement location.
- Depending on operating conditions, the unit can generate noise caused by valve actuation, refrigerant flow, and pressure changes during normal operation. It is not recommended that a BC controller is installed in locations where quietness is required (such as bedrooms).
- The total capacity of the connected indoor units can be greater than the capacity of the outdoor unit. However, when the indoor units operate simultaneously, each unit's capacity may be reduced below the rated capacity.
- When the unit is started up for the first time within 12 hours after power on or after power failure, it will perform an initial start-up operation (capacity control operation) to prevent damage to the compressor. The initial start-up 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 seconds or less.
- Consult your local distributor or a qualified technician when installing an earth leakage breaker.
- Inverter air conditioners and heat pump units require an earth leakage breaker suitable 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 accurately measure the leakage current on site, use a measurement tool equipped with a filter, and clamp all four power wires together. The leakage current measure on the ground wire may not be accurate due to the leakage current from other systems being included in the measurement value.
- Do not install a phase advancing capacitor on a unit which is connected to the same power system as an inverter type unit and its equipment.
- If a large current is produced by either a product malfunction or faulty wiring, both the earth leakage breaker on the product as well as the upstream overcurrent breaker may trip simultaneously. Separate the power system or coordinate all the breakers according to the system's priority levels.

1-6. Unit Installation

- Consult your local distributor or a qualified technician to carry out installation of the unit. Installation by an unqualified person may result in water leakage, electric shock, or fire.
- Your local distributor or a qualified technician must carefully read the Installation Manual that is provided with each unit before carrying out installation work.
- Ensure there is adequate space around each unit's installation site.

1-7. Optional Accessories

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

1-8. Operation/Maintenance

- Read the Instruction Book provided with each unit carefully before use.
- Maintenance or cleaning of each unit may be risky and therefore may require expertise. Refer to 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 requires cleaning).

2. Precautions for Indoor Unit

2-1. Operating environment

- The refrigerant (R410A) used for air conditioners 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 displayed 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 stops 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 units with salt-resistant specification are recommended in coastal areas or regions subject to salt air.
- Outdoors with salt-resistant specification are still not entirely protected against all forms of corrosion. Be sure to follow the directions and precautions outlined in the Instruction Manual and Installation Manual for correct maintenance. The salt-resistant specification adheres to the guidelines published by JRAIA (JRA9002).
- Install the unit in a place where discharge airflow is unobstructed. Obstruction of airflow may result in the short-cycling of discharge air.
- Ensure proper drainage is provided around the unit base to avoid condensation and/or water build-up. Water-proof protection should be applied to the floor when installing units on rooftops.
- In regions subject to snow and ice, install the unit so that the outlet faces away from the prevailing wind direction and install a snow guard to protect the unit from snow. Refer to the installation manual for the snow guard and take care when installing to avoid the risk of corrosion to the outdoor unit. The unit should be mounted on a base approximately 50cm higher than region's average snowfall. Close the openings for pipes and wiring, as the ingress of water and small animals or insects may cause equipment damage.
- Ensure the snow guard is kept free of snowfall exceeding 50cm.
- If the unit is expected to operate continuously for extended periods at outside air temperatures of 0°C or less, it is recommended to use a base heater to prevent ice build-up on the unit base (not applicable to PUMY series).
- Provide proper protection around 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 so that water is not exposed to the atmosphere. If a tank is installed to ensure the circuit has enough water, minimise the contact with outside air so that the oxygen being dissolved in the water is 1mg/L or less.
- Install a strainer (50 mesh or more is recommended) on the water pipe inlet on the heat source unit.
- Interlock the heat source unit and water circuit pump.
- Note the following to prevent frozen burst pipes when the heat source unit is installed in an area where the ambient temperature can drop to 0°C or below:
 - o Keep the water circulating to prevent it from freezing when the temperature is 0°C or below.
 - o If the system is to be out of use for long periods, ensure water is purged from the unit.

4-2. Circulating Water

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

4-3. Unit Characteristics

• Frequently repeating the Thermo ON and OFF on the indoor unit may destabilise the operating status of the outdoor unit.

4-4. Relevant Equipment

• Provide grounding in accordance with local regulations.

5. Precautions for Control-Related Items

5-1. Product Specification

- A consultation with BDT is required before installation of the MELANS system, particularly if the electricity charge apportioning function or energy-save function is to be utilised.
- The billing calculation for the AE-200E, AE-50E, AG-150A, EB-50GU-J, GB50ADA-J and TG2000A, as well as the calculation unit is based on a unique Mitsubishi Electric method which includes backup operation. The calculation is not based on a metering method, and does not include the input power consumption, and therefore should not be used for official business purposes. Note that the electric power consumption for the air conditioner is apportioned using the ratio corresponding to the operation status (output) of each indoor unit in this calculation method.
- In the apportioned billing function for the AE-200E, AE50E, AG-150A, EB-50GU-J and GB-50ADA-J, use separate watt-hour meters for A-control units, K-control units and packaged air conditioners for City Multi systems. It is recommended that an individual watt-hour meter is used for large-capacity indoor units (with two or more addresses).
- When using the energy-saving (peak cut) function on the AE-200E, AE-50E, AG-150A, EG-50GU-J or GB-50ADA-J, note that control is performed once per minute and therefore it may take some time to notice its full effect. Take appropriate measures such as lowering the criterion value. Power consumption may exceed limits if AE-200E, AE-50E, AG-150A, EG-50GU-J or GB-50ADA-J malfunctions or stops. A back-up solution should be available if necessary.
- The controllers cannot operate when the unit is OFF (no error). Ensure the power is ON to the indoor unit when operating the controllers.
- The interlocked control function on the AE-200E, AE50E, AG-150A, EB-50GU-J, GB-50ADA-J, PAC-YG66DCA-J or PAC-YG63MCA should not be used for the control of fire prevention or security, or any situation where it is primarily responsible for the protection of people's safety. Additional protection that allows ON/OFF operation using an external switch may be required in case of failure.

5-2. Installation Environment

- Surge protection for the transmission line may be required in areas susceptible to lightning strikes.
- Receivers for wireless remote controllers may be affected by lighting within the room. Leave a space of at least 1m between lighting sources and the receiver.
- When operating the auto-elevating panel using a wired remote controller, ensure the wired remote controller is installed in an area where it is not at risk of being damaged by the descending panel. It is recommended to use a wireless remote controller designed for use with elevating panels (sold separately).
- When installing the wired remote controller (switch box), ensure the following conditions are met:
- oThe installation surface is flat
- oThe controller is positioned where it can detect an accurate room temperature. Install the controller in a place where:
 - it is not subject directly to a heat source (direct sunlight and indoor unit airflow will affect the accuracy of the average room temperature reading)
 - an average room temperature can be detected
 - no other wires are present near the temperature sensor
- To prevent unauthorised access, always use a security device, such as a VPN router when connecting the AE-200E, AE-50E, AG-150A, EB-50GU-J, GB50ADA-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 be subject to vibration or mechanical shock
- When equipment is used in an environment where dust, salt, toxic gases such as sulfur dioxide and hydrogen sulfide, and oil mist are present
- When equipment starts/stops frequently and operates for a long time (24-hour air conditioning operation)

Table 1. Maintenance cycle

Major components	Checking cycle	Maintenance cycle	Major components	Checking cycle	Maintenance cycle
Compressor	1 year	20,000 hours	Expansion valve Valve (solenoid valve, four-way valve)	4	20,000 hours
Motor (Fan, Louver, drain pump)		20,000 hours			20,000 hours
Bearing		15,000 hours	Sensor (thermistor, presser sensor)	1 year	5 years
Electric board		25,000 hours	Drain pan		8 years
Heat exchanger		5 years			-

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

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

• Sudden unpredictable accidents may occur even if a check-up is performed

Replacement Cycle of Consumable Components [Note that replacement cycle does not mean guarantee period.]

Table 2. Replacement cycle

•		
Major components	Checking cycle	Replacement cycle
Long-life filter		5 years
High-performance filter		1 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 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.)

B.S. Salt Protection Specifications City Multi VRF Outdoor Units

	Base material	PUHY, PURY					
		YLM	YLM-BS		Paint thickness		
Name			Salt	Surface treatment			
		Standard	damage protection		External	Internal	
Bottom frame	Alloyed galvanized sheet	•	•	Polyester resin coating	70μm or more	70μm or more	
Front panel	Galvanized sheet	•		Polyester resin coating	15μm or more	5μm or more	
			•	Polyester resin coating	85µm or more	75μm or more	
Pillar	Alloyed galvanized sheet	•		Polyester resin coating	30μm or more		
			•	Polyester resin coating	70μm or more	70μm or more	
Compressor cover	Galvanized sheet	•		No treatment			
	Galvanized aluminum sheet		•	Polyester resin coating	70μm or more	70μm or more	
Fin guard	Steel wires	•	•	Polyethylene resin (Weather proof)	300μm or more	300μm or more	
Fan guard & Drum	Plastic	•	•	Polypropylene resin (Weather proof)			
Fan	Plastic	•	•	Acrylics nitril styrene resin			
Motor	Frame; Spcc	•	•	Zinc plating filming	8μm or more		
	Shaft; S35C	•	•	Rust prevention coloured coating			
Motor support	Galvanized sheet	•		No treatment			
			•	Polyester resin coating	70μm or more	70μm or more	
Heat exchanger	Aluminum plate	•		Cellulose series and ure- thane series resin coating	1μ m or more		
(Only fin)			•	Cellulose series and ure- thane series resin coating	3μm or more		
Electrical parts box	Galvanized sheet	•		No treatment			
	Galvanized aluminum sheet		•	Polyester resin coating	70μm or more		
Printed circuit board	Epoxy resin	•		Polyurethane coating	10μm or more		
			•	Polyurethane coating	10μm or more	10μm or more	
Screw	Steel for screws	•	•	Zinc-nickel alloy plating + Geomet filming			

CAUTION:

- 1 Do not position the outdoor in a direct sea breeze.
- 2 Don't protect the unit from rain. (Rain will clean the salt from the coil).
- 3 Install the outdoor unit level to allow condensate drainage.
- 4 Wash the outdoor unit regularly.
- 5 Repair any scratches on the panels.
- 6 Inspect regularly. Paint or change parts as required.



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.

For more information on Mitsubishi Electric Heat Pumps, please call our customer service team on 0800 784 382



www.mitsubishi-electric.co.nz



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