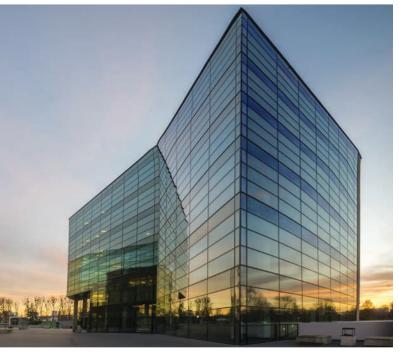


VRF City Multi Product Catalogue











Features of Mitsubishi Electric Air Conditioners p.3-24 **Outdoor Unit** p.25-89 **Indoor Unit** p.91-154 Controllers p.155-180 BMS p. 181-184 p.185-188 **Optional Parts Installation Information** p.189-194 Maintenance Equipment p.195 **BS Salt Protection Specifications** p.196



To the next stage of air conditioning

Introducing a new series of air conditioners with improved basic functions and advanced compressor, well streamlined fan that meet energy-saving requirements.

Mitsubishi Electric continues to improve air conditioning quality and provide its customers with next-stage solutions.



Energy Saving

Flexible Noise Setting

New Design

New BC controller

New CITY MULTI

The new structural design has a 4-face air induction design and improved core components, such as compressor and fan, significantly improving energy-saving performance.



Energy Saving

Various key components have been improved, enhancing energy efficiency performance and meeting customers' requirements.

New Design

New modern design blends in well with most building architectures.

Flexible Noise Setting

All models in the series are equipped with low-noise operating mode as a standard feature. Choose from five different patterns for the optimum setting to meet the low-noise requirements.

New BC controller

The BC controllers for R2 have been remodeled. Up to 11 sub-BC controllers can be connected to the main BC controller.

R2 (Heat Recovery) Series

Simultaneous Cooling and Heating

PURY-P YNW-A (-BS) PURY-EP YNW-A (-BS)
PURY-P YSNW-A (-BS) PURY-EP YSNW-A (-BS)

Y (Heat Pump) Series

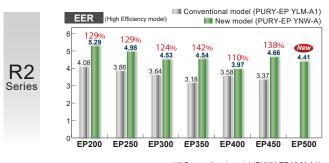
Cooling or Heating

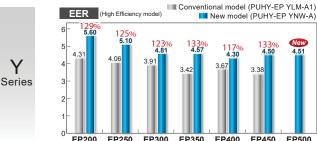
Y series

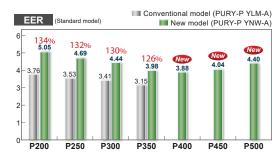
PUHY-P YNW-A (-BS) PUHY-EP YNW-A (-BS)
PUHY-P YSNW-A (-BS) PUHY-EP YSNW-A (-BS)

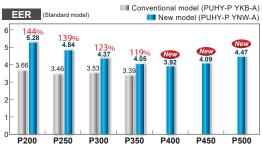
Energy Saving

Compared to the existing models, the all single modules in YNW Series have improved EER. EER of the 14HP model (PURY-EP350YNW-A) is higher by about 42%. All these models ensure high energy saving.









*Comparison under the nominal condition.

New

Flexible Noise Setting









The low-noise mode, which conventionally only had one pattern, has been increased to four patterns so that a mode can be selected from a total of five patterns, including the rated pattern. The low-noise mode has four patterns 85%, 70%, 60% and 50% in respect to the fan speed. This can be set with the outdoor unit's DIP switch. The pattern can be selected according to the customer's requests when low-noise operation is required.

New Design



* All product images are standard type.



To realize higher efficiencies, the structure was changed to use a four-sided heat exchanger.

The result is an appearance that is more sophisticated which can enhance the design of building.

Conventional model (YLM)

New model (YNW)

Comparison of modules (R2 Series) (R2 Series)











Capacity increased up to 44HP New 16~20HP single module available





Use of module one size smaller than conventional unit

Single modules of up to 20HP have been added to R2-Series.

Single modules are smaller, with L modules replacing the EP400 and P450 modules, reducing installation space by approximately 29%.

■R2-Series



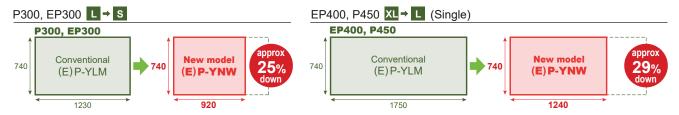
	8HP	10HP	12HP	14HP	16HP	18HP	20HP
	P200	P250	P300	P350	P400	P450	P500
YLM-A	S	S	L	L	_	_	_
New YNW	S	S	S	L	L	L	XL



	8HP	10HP	12HP	14HP	16HP	18HP	20HP
	EP200	EP250	EP300	EP350	EP400	EP450	EP500
YLM-A1	S	S	L	L	XL	XL	_
New YNW	S	S	S	L	L	L	XL

Combination

	8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP	24HP	26HP	28HP	30HP	32HP	34HP	36HP	38HP	40HP	42HP	44HP
	P200	P250	P300	P350	P400	P450	P500	P550	P600	P650	P700	P750	P800	P850	P900	P950	P1000	P1050	P1100
YLM-	A –	_	_	_	S+S	S+S	S+S	S+L	L+L	L+L	L+L	L+L	L+L	L+XL	XL+XL	_	_	_	_
New YNV	/ _	_	_	_	S+S	S+S	S+S	S+S	S+S	S+L	L+L	L+L	L+L	L+L	L+L	L+XL	XL+XL	XL+XL	XL+XL



New BC controller



Sub-BC controller connections increased (250)



Only two sub-BC controllers could be connected to a main BC controller in previous models. Up to 11 sub-BC controllers can now be connected to the new BC controller, allowing for more flexibility in system design.

The line-branching method enables the creation of system designs that use less refrigerant.



Key Components

New 1 Compressor with centrifugal force canceling mechanism (EP) (PP) (EP)









The compressor, known as the heart of the air conditioner, has been newly developed. A new centrifugal force canceling mechanism and a new multi-port mechanism have been developed. In addition, we have mounted a high-efficiency motor. The synergetic effect of these new technologies increases the compressor performance and efficiency, and also helps to improve the performance of the outdoor unit.

Centrifugal force canceling mechanism (8 to 14HP)

The structure of the scroll compressor causes a centrifugal force during operation. Conventionally, that centrifugal force is applied onto the scroll section. This causes refrigerant to leak, and restricts the increase in rotational speed to a maximum of 120rps.

With the new compressor, a new structure (centrifugal force canceling mechanism) has been mounted to suppress the centrifugal force. This mechanism successfully suppresses the centrifugal force generated at the scroll section, reduces refrigerant leakage losses, and increases the compressor efficiency. The maximum rotational speed has been increased from the conventional 120rps to 140rps.

This new mechanism also speeds up the start of operation, and enables operations such as preheat defrost operation and the smooth auto-shift startup mode.

Conventional mechanism Centrifugal force canceling mechanism Vortex pressing load is high. Vortex pressing load is low. Large loss **Small loss** With canceling mechanism Fixed so Compressor efficiency Centrifugal force Centrifugal force applied on scroll applied on scroll section: Small section: Large compressor efficiency Refrigerants leakage Refrigerant leakage loss: Large Max. speed 120rps Max. speed 140rps Rotational speed (rps) Centrifugal force Max. speed 120rps →140rps contribute cancelling slide to speedy compressor start up **New structure** Spindle

Multi-port mechanism

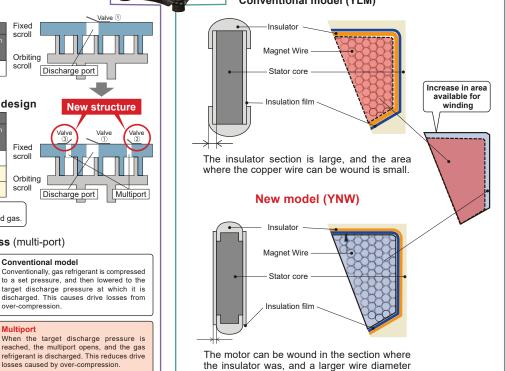
With the scroll compressor, the distance of the compression process in the scroll is usually fixed, so over-compression occurs during low loads and low rotation.

The new compressor is equipped with two sub-ports in addition to the conventional discharge port to reduce this over-compression loss during low loads. In operation conditions having a low compression rate, the distance in the compression process is kept short, successfully avoiding unnecessary compression, and contributing to efficient partial load operation.

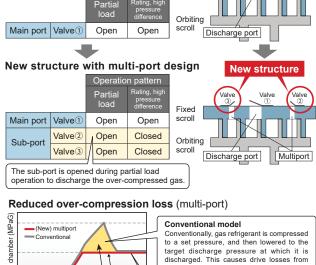
Improved high-efficiency motor

The insulator section that traditionally created a dead space is eliminated by insulating the motor's stator film. Since winding can be set in that section, the winding area can be increased by approx. 9%. The wire diameter has also been increased by two ranks, so the resistance between terminals is reduced, and the insulation distance is shorter. This improves the motor's operation performance and contributes to high-efficiency operation of the compressor.

Conventional model (YLM)



Conventional structure



Discharge

Crank angle (deg)

eliminated in this structure

Over-compression area can be

Compression

New 2 Four-sided air intake structure (P) (P)







On the conventional models, a U-shaped heat exchanger was installed over the rear surface. In the new model, the four-sided heat exchanger has been mounted on the upper-part of the module which is near the fan. This allows air to be taken in efficiently, and increases the heat exchanger's efficiency.

Conventional model (YLM)



The three-surface suction and the vertically long heat exchanger attenuate the suction rate at sections distanced from the fan.

New model (YNW)

Efficient air suction is achieved by placing the heat exchangers on the upper part. The multiplier effect created by increasing the number of suction surfaces from three surfaces to four surfaces greatly improves the operation efficiency.



New 3 Provided with well streamlined fan



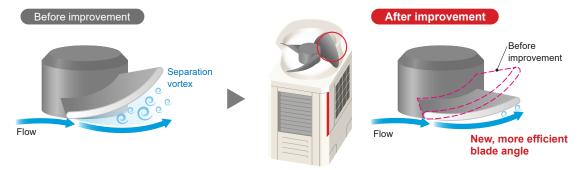






A new fan which is suitable for 4-face suction has been developed. A newly designed winglet is provided on the periphery of each blade to operate efficiently.

In addition, the blade angle is determined properly according to the flows on the inner and outer peripheries of the blade to optimize the blowing efficiency.

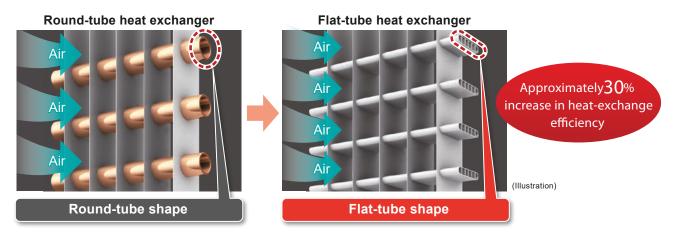


4 Flat-tube heat exchanger





In addition to the round-tube heat exchanger models, flat-tube heat exchanger models are available. The use of flat tubes increases the number of piping stages while maintaining the same size for heat exchanger. The inside of the tube is divided into thin compartments, which increases the area of contact between refrigerant and air, thereby increasing heat-exchange effectiveness and significantly improving energy-saving performance. The flat-tube heat exchanger improves heat-exchange effectiveness by approximately 30% compared to round-tube heat exchangers.

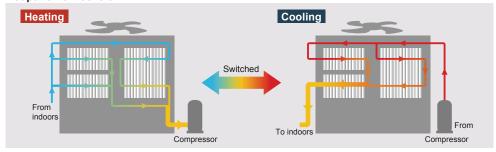


New 5 Adaptive flow control (~18HP)



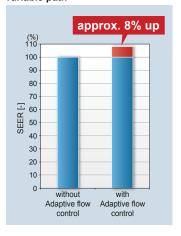
Changed to a refrigerant circuit flow for both heating and cooling.

Adaptive flow control



- During cooling, a serial flow path (flow through two of the heat exchangers split into three, and then through the last heat exchanger) is used. With fewer paths, the refrigerant flow rate is increased and the heat conductivity performance is improved. In addition, the drop in heat exchanger capacity for per path prevents the refrigerant stagnation and improves the condensing performance of the heat exchanger during cooling.
- During heating, a parallel flow path (flow refrigerant simultaneously through all heat exchangers split into three) is used. By flowing the refrigerant to all paths at the heat exchanger inlets (by increasing the number of paths compared to cooling), pressure loss in the heat exchanger is reduced, and the evaporator performance is improved.
- * Increase in evaporator performance is compared to using the original number of cooling paths.

Comparison of EP300 (Y-Series) SEER (cooling) with and without variable path



Key Functions





New 1 Smooth auto-shift startup mode











New 2 Preheat defrost operation

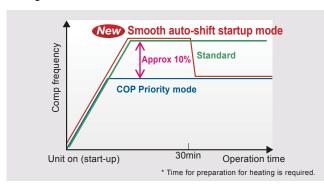




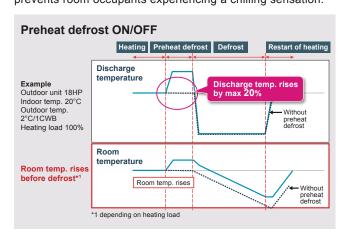




Smooth auto-shift startup mode, a new operation mode on the outdoor unit, can now be selected in addition to the conventional COP Priority and Capacity Priority modes. In order to heat the room faster, Capacity Priority mode runs for 30 minutes when heating operation starts. The unit then switches to COP Priority mode to increase energy-saving efficiency. This enables both improved comfort and energy savings.



The new outdoor unit is equipped with a preheat defrost operation that raises the discharge temperature of the air before beginning defrost operation. This contributes to raising the room temperature before the start of defrost operation and prevents room occupants experiencing a chilling sensation.



3 Energy-efficient evaporation control





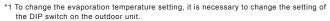




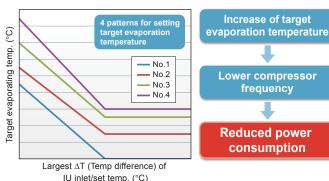
Since the evaporation temperature is kept constant regardless of the air-conditioning load in normal operation mode, energy loss could occur at times of low air-conditioning load. The new models are equipped with a function for selecting the target evaporation temperature*1 according to the air-conditioning load.

The compressor frequency is reduced according to conditions in the room to control the evaporation temperature.

This can curb excessive power consumption and realize energy savings*2.



*2 When the difference between the indoor unit air-intake temperature and the actual temperature setting exceeds 1°C, the air conditioner returns to normal mode.



4 High sensible heat operation (P) (P)

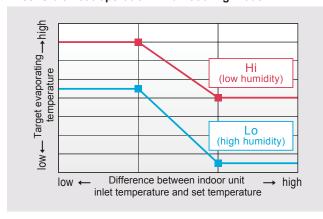






The evaporating temperature is controlled according to room temperature and humidity, and refrigerant pressure.

Image of evaporating temperature control during high sensible heat operation in full cooling mode

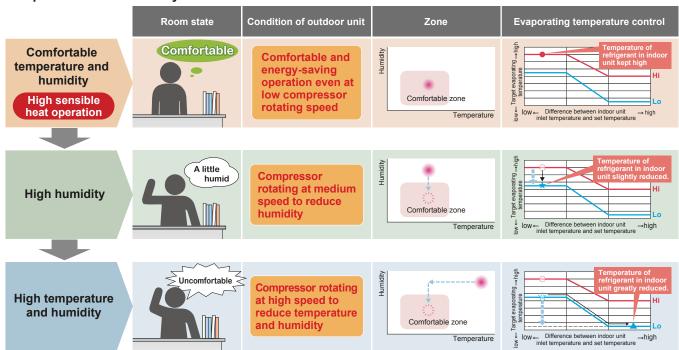


With high sensible heat operation mode activated, air conditioners consume less energy,*1 thereby realizing cost savings.

If a locally procured humidity sensor is installed, the evaporating temperature of the outdoor unit can be controlled optimally as shown below according to the difference between the indoor unit inlet temperature and set temperature.

A wide range of temperature settings are available, from a low evaporating temperature close to the temperature for normal operation to a high evaporating temperature to realize energy savings.

Temperature and humidity conditions



New 5 Maintenance data retrieval via USB 😭 😭









Operation data was retrieved from conventional models using the maintenance tool. On the new model, the data can be retrieved quickly via USB*1. It is unnecessary to carry the personal computer in which the maintenance tool has been installed, reducing field operation time and improving convenience. Software can be rewritten via USB, while data for up to 4 days and the 5 minutes after an error has occurred can be stored in the the USB memory device*2.

^{*1} Unlike in evaporating temperature control mode, once the air conditioners are set in high sensible heat operation mode, they are kept running at a reduced evaporating temperature.

^{*1} In the case of OC-IC maximum configuration

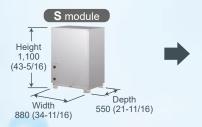
^{*2} USB memory devices conforming to USB2.0 can be used.

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









<WY series>

Newly available single-module units

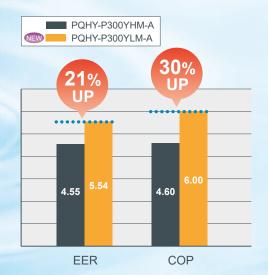
			P200	P250	P300	P350	P400	P450	P500	P550	P600	P650	P700	P750	P800	P850	P900
NEW	PQHY-P Y(S)LM-A	Single	S	S	S	L	L	L	L	L	L						
	PQHY-P Y(S)HM-A	Single	S	S	S												
NEW	PQHY-P Y(S)LM-A	Combination					S+S	S+S	S+S	S+S	S+S		L+L	L+L	L+L	L+L	L+L
	PQHY-P Y(S)HM-A	Combination					S+S	S+S	S+S	S+S	S+S	S+S+S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

	<wr2 series=""></wr2>					Newly available single-module units					its)	Incr	eased ca	pacities	up to P	900	٠.
			P200	P250	P300	P350	P400	P450	P500	P550	P600	P650	P700	P750	P800	P850	P900	
NEW	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													
NEW	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							Ĭ

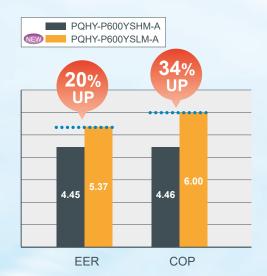
Improved EER and COP

Greatly improved EER and COP when 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>

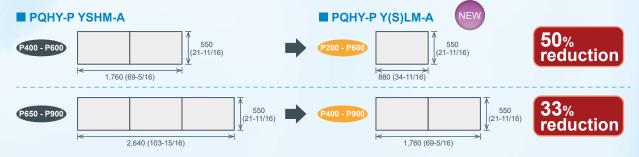
Piping between the heat source units is necessary.

■ P400YLM (WY/WR2 series)



Reduced footprint

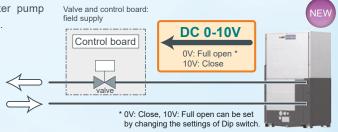
Footprint is reduced not only for single-module units but also for combination-module units.



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.

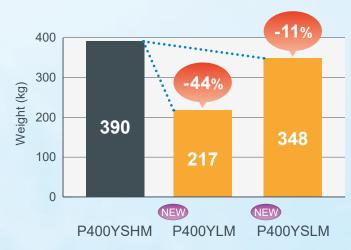
- Control of water flow rate
- Control output voltage (0-10V) for adjustment of valve operating [0V: Full open,10V: close]
- Voltage at 0 volt: Even when power down, water will continue to circulate.



Light weight

The reduction in weight leads to easy transportation and installation.

<Weight comparison>



New BC Controller

1 Sub-BC controller connections increased

Only two sub-BC controllers could be connected to a main BC controller in previous models. Up to 11 sub-BC controllers can now be connected to the new BC controller, allowing for more flexibility in system design.

The line-branching method enables the creation of system designs that use less refrigerant.



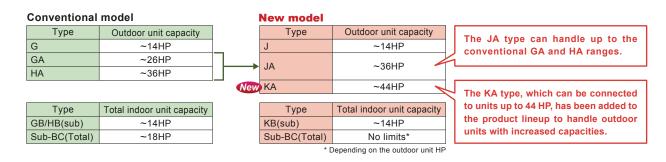
2 Greater flexibility in refrigerant piping design



The piping length from the main BC controller to indoor units has been increased from 60m[196ft] to 90m[295ft], providing greater flexibility in piping design.

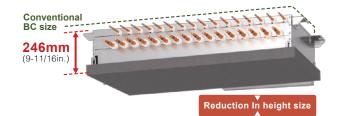
3 Main BC controller with increased connection capacity

The connection capacity of the main BC controller has been increased compared to previous controllers, allowing system designs with fewer units. The KA type, which can be connected to units up to 44 HP, has been added to the product lineup to handle outdoor units with increased capacities.



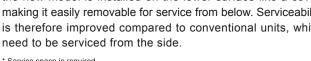
4 Reduced height

With an average lower height of 40.5mm compared to previous sub-BC controllers, the new design can be installed in ceilings with limited space.



5 Improved accessibility to lower surface and serviceability

Previously, the drain pan on conventional models was built into the bottom and could not be removed. The drain pan of the new model is installed on the lower surface like a cover, making it easily removable for service from below. Serviceability is therefore improved compared to conventional units, which





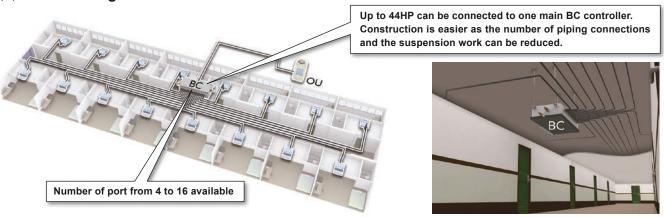
^{*}Sub-BC controllers should be used when piping length is 60m[196ft.] or more.

^{*} Servicing space is required.

^{*} Service space is required.

BC controller design can be selected from various patterns depending on use.

(1) Pattern using multi-branch main BC controller

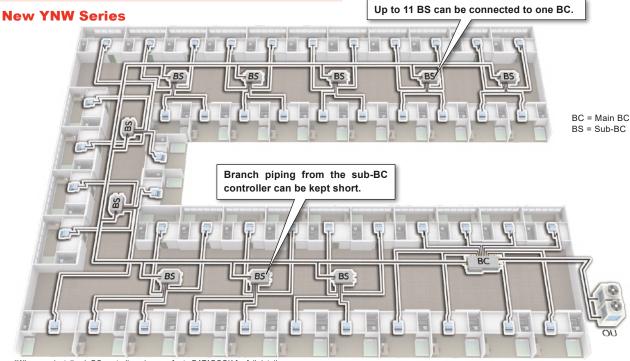


(2) The line-branching method with a main BC controller and sub-BC controllers



The number of sub-BC controllers that can be connected has been increased from 2 to 11, and sub-BC controllers can be now installed closer to the indoor units, thus reducing both the total branch length compared to conventional models and the amount of refrigerant used.

- · Low number of piping connections, even across many rooms.
- · Low amount of refrigerant required.



*When you install sub-BC controller, please refer to DATABOOK for full detail

Comparison of piping design for 48 rooms

Conventional model

Branch piping from sub-BC controller is long

*The 16 branch BC controller is an older model, and is not possible in this design.

New model



The sub-BC controller can be installed near the indoor units, so the branch piping can be greatly reduced. This also reduces the length of system piping, enabling using less refrigerant design.

Overall branch piping length reduced

Refrigerant amount reduced by 20%*

- Outdoor unit: 36 HP Indoor units: P25 × 48 units BC controllers: Existing HA + HB (16-branch) × 2 units New JA + KB (4-branch) × 10 units



Sophisticated Yet Simple Technology

Reliable

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

PEFY-VMA

PEFY-VMA

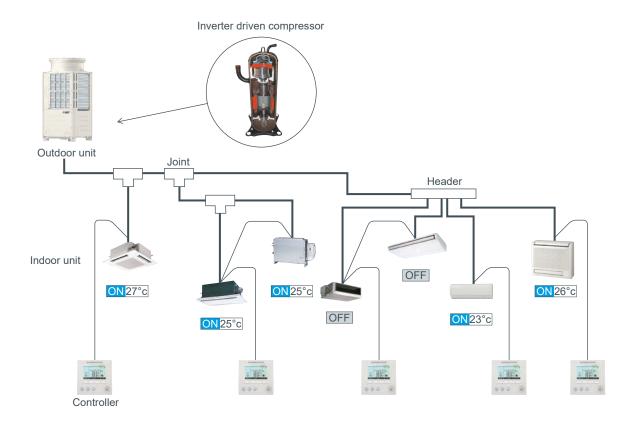
PFFY-VKM

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.



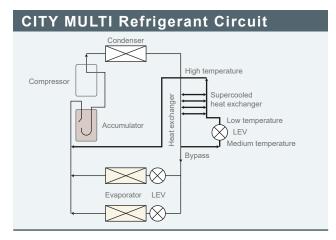


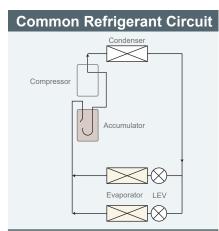


Unbeatable Efficiency

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





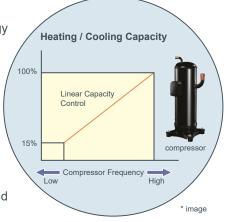
Using inverter driven technology saves energy in several ways:

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 and smooth transition across the range of compressor frequencies.



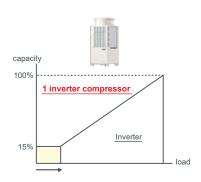
^{*} The values vary depending on the actual conditions such as ambient temperature.

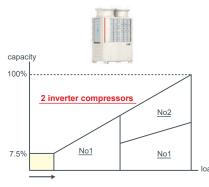
All CITY MULTI compressors are inverter-driven type. Capable of precisely matching a building's cooling and heating demands.

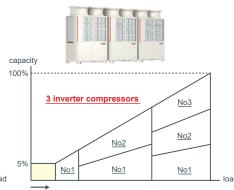
The outdoor unit combinations comprise 1 unit for 8-20HP systems (for Y and R2 series), 2 units for 22-36HP systems (for R2, 22-44HP) and 3 units for 44-54HP systems (Y series only). Each unit carries one inverter compressor making simple and highly reliable control possible.

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

ntelligent Power Module (IPM) Technology

The YNW-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 YNW-A and Previous Mitsubishi Electric Models

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



Efficient air suction is achieved by placing the heat exchangers on the upper part. The multiplier effect created by increasing the number of suction surfaces from three surfaces to four surfaces greatly improves the operation efficiency.

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.





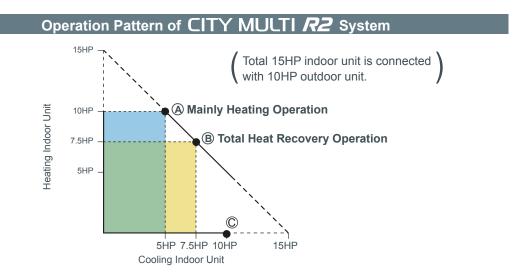






Affordable & Effective air conditioning you can rely on

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



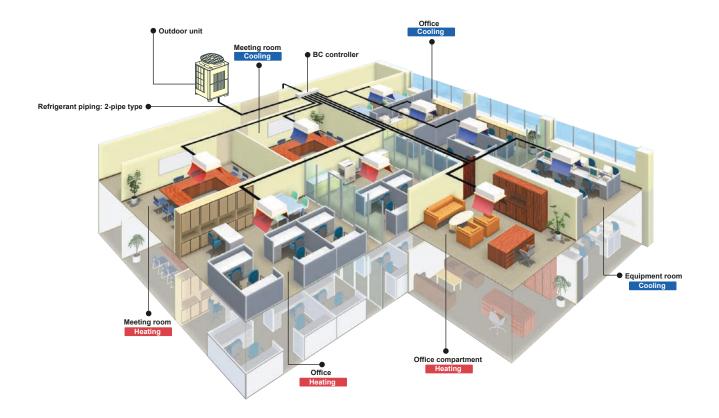
Unique Technology

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.









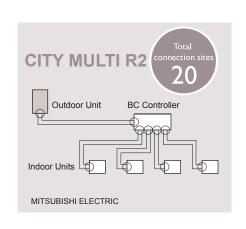


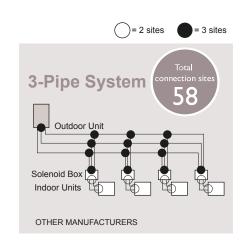




"2-pipe" System Provides Better Efficiency and Performance

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.



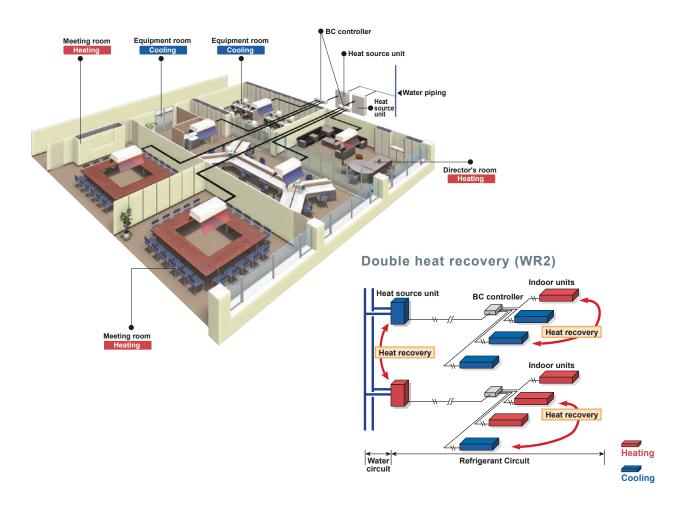
WR2(Heat recovery type)

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.













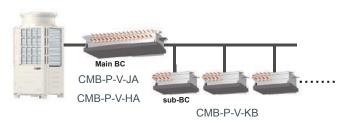


it Out Flexibility

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



UP TO 11X SLAVE BC'S

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.



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

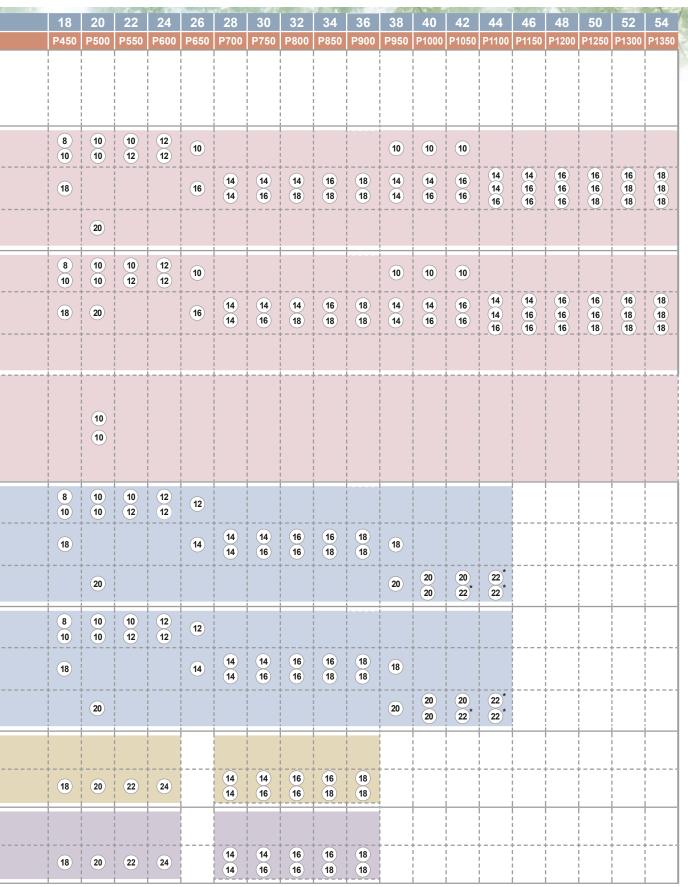


O utdoor Unit

- 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)

Line up of Outdoor Units

	1	7, 1		P	4.5	5	6	8	10	12	14	16	
System	Type	Model name	Мо	del	P112	P125	P140	P200	P250	P300	P350	P400	
		S series Page 28 - Page 31 PUMY-P VKM-A(-BS) PUMY-P YKM-A(-BS)			4.5	5	6						
		PUHY-P YNW-A(-BS)	- Page 43	S				8	10	12		8	
	Heat	PUHY-P YSNW-A(-BS)		L							14	16	
	Pump			XL									
		PUHY-EP YNW-A(-BS)	- Page 55	S				8	10	12		8	
		PUHY-EP YSNW-A(-BS)		L							14	16	
				XL									
Air Cooled		ZUBADAN series PUHY-HP YHM-A(-BS) PUHY-HP YSHM-A(-BS)	- Page 75	S				8	10			8	
		(When sold with water module or AHU only.)											
		R2 series Page 56 - PURY-P YNW-A(-BS) PURY-P YSNW-A(-BS)	- Page 63	*1 S				8	10	12		8	
		NEW THE T		L							14	16	
	Heat Recovery			XL									
	riccovery	R2 series - High COP Page 64 PURY-EP YNW-A(-BS) PURY-EP YSNW-A(-BS)	- Page 70	S				8	10	12		8	
		NEW A(26)		L							14	16	
		MV out of		XL									
	Heat Pump	WY series Page 76 - Page 82 PQHY-P YLM-A		S				8	10	12	14	16	
Water Cooled	114	PQHY-P YSLM-A WR2 series		s				8	10	12			
	Heat Recovery	Page 83 - Page 90 PQRY-P YLM-A PQRY-P YSLM-A	=	L							14	16	



* 22HP (P550) single module can only be used in combination with others.

S-Series PUMY-P



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.



PUMY-P V/YHMB PUMY-P V/Y

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.

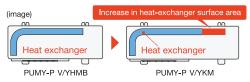
High-density heat exchanger

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

Heat-exchange surface area increased

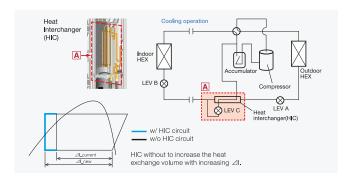
The heat exchanger size has been extended horizontally, increasing the surface area.

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.



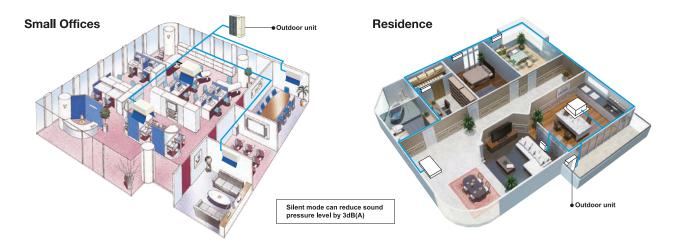




The two-pipe zoned system designed for Heat **Pump Operation**

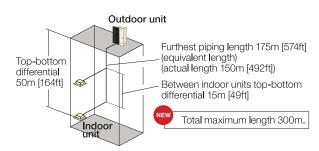
The CITY MULTI S series (for small applications) make use of a two-pipe refrigerant system, which allows for system changeover from cooling to heating, ensuring that a constant indoor climate is maintained in all zones. The compact outdoor unit utilises R410A refrigerant and an inverter-driven compressor 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 1 1 2 1 1 0 (1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Refrigerant Piping Lengths	Maximum meters [Feet]
Total length	300 [984]
Maximum allowable length	150 (175 equivalent) [492(574)]
Farthest indoor from first branch	30 [98]
Vertical differentials between units	Maximum meters [Feet]
Indoor/outdoor (outdoor higher)	50 [164]
Indoor/outdoor (outdoor lower)	40 [131]
Indoor/indoor	15 [49]



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	42.650	47,768	52,886
,	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	54,592	61,400
(**************************************	Power input	kW	3.13	3.74	4.47
	Current input	A	13.82	16.51	19.73
	ACOP/COP	kW / kW	4.20/4.47	4.03/4.28	3.81/4.03
Temp. range of	Indoor temp.	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)
heating	Outdoor temp.	W.B.	-20.0~15.0°C(-4~59°F)	-20.0~15.0°C(-4~59°F)	-20.0~15.0°C(-4~59°F)
Indoor unit	Total capacity	VV.D.	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity
connectable	Model / Quantity		P15~P140/9	P15~P140/10	P15~P140/12
Sound pressure le					
(measured in ane		dB <a>	49/51	50/52	51/54
Refrigerant piping	Liquid pipe	mm (in.)	9.52(3/8) Flare	9.52(3/8) Flare	9.52(3/8) Flare
diameter	Gas pipe	mm (in.)	15.88(5/8) Flare	15.88(5/8) Flare	15.88(5/8) Flare
FAN	Type x Quantity		Propeller Fan x 2	Propeller Fan x 2	Propeller Fan x 2
	Air flow rate	m³/min	110	110	120
		L/s	1.833	1.833	2.000
		cfm	3,884	3,884	4,237
	Motor output	kW	0.06 + 0.06	0.06 + 0.06	0.06 + 0.06
Compressor	Type x Quantity		Scroll hermetic compressor x 1	Scroll hermetic compressor x 1	Scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	3.0	3.5	4.0
External finish			Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1	Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1	Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1
External dimensio	n HxWxD	mm	1,338 x 1,050 x 330 (+25)	1,338 x 1,050 x 330 (+25)	1,338 x 1,050 x 330 (+25)
		in.	52-11/16 x 41-11/32 x 13 (+1)	52-11/16 x 41-11/32 x 13 (+1)	52-11/16 x 41-11/32 x 13 (+1)
Protection	High pressure pr	otection	High pressure Switch	High pressure Switch	High pressure Switch
devices	Inverter circuit (CO	MP./FAN)	Overcurrent detection, Overheat detection (Heatsink thermistor)	Overcurrent detection, Overheat detection (Heatsink thermistor)	Overcurrent detection, Overheat detection (Heatsink thermistor)
	Compressor		Compressor thermistor, Over current detection	Compressor thermistor, Over current detection	Compressor thermistor, Over current detection
	Fan motor		Overheating, Voltage protection	Overheating, Voltage protection	Overheating, Voltage protection
Refrigerant	Type x original ch	narge	R410A 4.8kg	R410A 4.8kg	R410A 4.8kg
Net weight		kg (lbs)	123(272)	123(272)	123(272)
Heat exchanger			Plate fin coil	Plate fin coil	Plate fin coil
Defrosting method	i		Reversed refrigerant circuit	Reversed refrigerant circuit	Reversed refrigerant circuit
Optional parts			Joint: CMY-Y62-G-E	Joint: CMY-Y62-G-E	Joint: CMY-Y62-G-E
			Header: CMY-Y64/68-G-E	Header: CMY-Y64/68-G-E	Header: CMY-Y64/68-G-E

Notes:

١,	2 Norminal Condition	115			
		Indoor	Outdoor	Pipe length	Level difference
	Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

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



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

► Specifications

Model			PUMY-P112YKM-A (-BS)	PUMY-P125YKM-A (-BS)	PUMY-P140YKM-A (-BS)
Power source			3-phase 400V 50Hz	3-phase 400V 50Hz	3-phase 400V 50Hz
Cooling capacity	*1	kW	12.5	14.0	15.5
(Nominal)	*1	BTU / h	42,658	47,768	52,886
` ,	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)
coolina	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	47,768	54,592	61,416
(/	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.	-20.0~15.0°C(-4~59°F)	-20.0~15.0°C(-4~59°F)	-20.0~15.0°C(-4~59°F)
Indoor unit	Total capacity	*****	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity
connectable	Model / Quantity		P15~P140/9	P15~P140/10	P15~P140/12
Sound pressure le					
(measured in 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 pr	otection	High pressure Switch	High pressure Switch	High pressure Switch
devices	Inverter circuit (CC	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 c	harge	R410A 4.8kg	R410A 4.8kg	R410A 4.8kg
Net weight		kg (lbs)	125(276)	125(276)	125(276)
Heat exchanger			Plate fin coil	Plate fin coil	Plate fin coil
Defrosting method	i		Reversed refrigerant circuit	Reversed refrigerant circuit	Reversed refrigerant circuit
Optional parts			Joint: CMY-Y62-G-E	Joint: CMY-Y62-G-E	Joint: CMY-Y62-G-E
•			Header: CMY-Y64/68-G-E	Header: CMY-Y64/68-G-E	Header: CMY-Y64/68-G-E

Notes:

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.

Y (Heat Pump) series



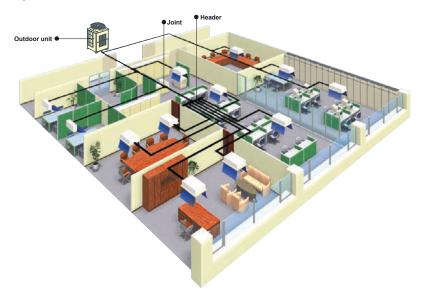
Heating or Cooling

PUHY-P YNW-A(-BS) Y series -PUHY-P YSNW-A(-BS) PUHY-EP YNW-A(-BS) PUHY-EP YSNW-A(-BS)

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

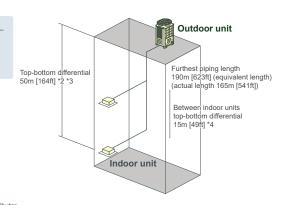
The CITY MULTI Y series (for large applications) make use of a two-pipe refrigerant system, which allows for system changeover from cooling to heating, ensuring that a constant indoor climate is maintained in all zones. The compact outdoor unit utilises R410A refrigerant and an inverter-driven compressor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



System Pipe Lengths [P200-P1350 (Y Series)]

Refrigerant Piping Lengths	Maximum meters [Feet]	Vertical differentials between units	Maximum meters [Feet]
Total length · · · · · · · · · · · · · · · · · · ·	· 1,000 [3,280]	Indoor/outdoor (outdoor higher) · · · ·	50 [164]*2
Maximum allowable length · · · · · · ·	· 165 (190 equivalent)	Indoor/outdoor (outdoor lower) · · · · ·	40 [131]*3
	[541(623)]	Indoor/indoor	15 [49]*4
Farthest indoor from first branch···	· 40 [131]*1		



- *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

PUHY-P YNW-A(-BS)



Specifications

Model			PUHY-P200YNW-A (-BS)	PUHY-P250YNW-A (-BS)	PUHY-P300YNW-A (-BS)	PUHY-P350YNW-A (-BS)
Power source					3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity	*1	kW	22.4	28.0	33.5	40.0
(Nominal)		BTU/h	76,400	95,500	114,300	136,500
,	Power input	kW	5.61	7.25	9.35	10.86
	EER	kW/kW	3.99	3.86	3.58	3.68
	EER (ErP) ⁺	kW/kW	5.28	4.84	4.37	4.05
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		25.0	31.5	37.5	45.0
(Max)	BTU/h		85,300	107,500	128,000	153,500
(IVIAX)	Power input	kW	5.59	7.35	9.10	11.30
	COP		4.47	4.28	4.12	3.98
		kW/kW		5.21	4.12	4.28
(Nomina	COP (ErP)*	kW/kW	5.45	28.0	33.5	4.28
(Nomina	1)	kW	22.4			
		BTU/h	76,400	95,500	114,300	136,500
	Power input	kW	3.95	5.20	6.70	8.51
	COP	kW/kW	5.67	5.38	5.00	4.70
Temp. range of	Indoor	D.B.	15.0~27.0 °C (59~81 °F)			
heating	Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)			
Indoor unit	Total capacity		50~130% of outdoor unit capacity			
connectable	Model / Quantity		P15~P250/1~17	P15~P250/1~21	P15~P250/1~26	P15~P250/1~30
Sound pressure le						
(measured in ane		dB <a>	58.0 / 59.0	60.0 / 61.0	61.0 / 64.5	62.0 / 64.0
Sound power leve						
(measured in ane		dB <a>	75.0 / 78.0	78.0 / 80.0	80.0 / 83.5	80.5 / 83.0
Refrigerant piping	3110101000111			9.52 (3/8) Brazed (12.7 (1/2)	9.52 (3/8) Brazed (12.7 (1/2)	
diameter	Liquid pipe	mm (in.)	9.52 (3/8) Brazed		Brazed, farthest length >= 40 m)	12.7 (1/2) Brazed
ulailletei		(*)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed
	Gas pipe	mm (in.)				
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2
	Air flow rate	m³/min	170	185	240	270
		L/s	2,833	3,083	4,000	4,500
		cfm	6,003	6,532	8,474	9,534
	Control, Driving m	echanism	Inverter-control, Direct-driven by motor			
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.46 x 2
*5	External static pr	ess.	0 Pa (0 mmH₂O)			
Compressor	Туре		Inverter scroll hermetic compressor			
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.6	7.0	7.9	9.8
	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>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>
External dimensio	n HxWxD	mm	1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 1,240 x 740
		in.	73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16	73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16	73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16
Protection devices	High pressure pro	otection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (CO	MP./FAN)	Over-heat protection, Over-current protection			
	Compressor					
	Fan motor		-	-	-	-
Refrigerant	Type x original ch	narne	R410A x 6.5 kg (15 lbs)	R410A x 6.5 kg (15 lbs)	R410A x 6.5 kg (15 lbs)	R410A x 9.8 kg (22 lbs)
Net weight	Trype x original ci	kg (lbs)	225 (497)	225 (497)	228 (503)	278 (613)
Heat exchanger		rg (ins)	Salt-resistant cross fin & copper			
			tube	tube	tube	tube
Optional parts			Header: CMY-Y104/108/1010-G	Header: CMY-Y104/108/1010-G	Header: CMY-Y104/108/1010-G	Header: CMY-Y104/108/1010-G

Notes:

*1,*2 Nominal conditions (subject to JIS B8615-2) + ErP Lot 21/6 calculation method to EN14825

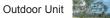
	Indoor	Indoor Outdoor		Level difference	
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m (24-9/16ft.)	0m (0ft.)	
_	(81°F DB/66°F WB)	(95°F DB/75°F WB)			
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)	

^{*3} Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
Eurovent registered

*4 Cooling mode / Heating mode

*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O).
Consult your dealer about the specification when setting External static pressure option.

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



PUHY-P YNW-A(-BS)



Specifications

Temp. range of	*1 Power input	kW BTU/h	PUHY-P400YNW-A (-BS) 3-phase 4-wire 380-400-415 V 50/60 Hz 45.0	PUHY-P450YNW-A (-BS) 3-phase 4-wire 380-400-415 V 50/60 Hz	PUHY-P500YNW-A (-BS) 3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity (Nominal) F Temp. range of cooling	Power input				
(Nominal) F E Temp. range of cooling				50.0	56.0
Temp. range of cooling			153,500	170.600	191.100
Temp. range of cooling		kW	12.93	14.74	16.00
Temp. range of cooling	EER	kW/kW	3.48	3.39	3.50
Temp. range of cooling	EER (ErP) ⁺	kW/kW	3.92	4.09	4.47
cooling	Indoor	W.B.	15.0~24.0 °C (59~75 °F)	15.0~24.0 °C (59~75 °F)	15.0~24.0 °C (59~75 °F)
	Outdoor	D.B.	-5.0~52.0 °C (23~126 °F)	-5.0~52.0 °C (23~126 °F)	-5.0~52.0 °C (23~126 °F)
ricalling capacity	*2	kW	50.0	56.0	63.0
(Max)	-	BTU/h	170,600	191,100	215,000
	Power input		13.69	16.32	16.11
		kW kW/kW	3.65	3.43	3.91
			3.73	4.17	4.31
(Nominal)		kW/kW	45.0	50.0	56.0
(Nominal)		kW			
		BTU/h	153,500	170,600	191,100
		kW	10.15	10.89	11.53
	COP	kW/kW	4.43	4.59	4.85
Temp. range of	Indoor	D.B.	15.0~27.0 °C (59~81 °F)	15.0~27.0 °C (59~81 °F)	15.0~27.0 °C (59~81 °F)
	Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)	-20.0~15.5 °C (-4~60 °F)	-20.0~15.5 °C (-4~60 °F)
	Total capacity	VV.D.	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
	Model / Quantity		P15~P250/1~34	P15~P250/1~39	P15~P250/1~43
			P15~P250/1~34	P15~P250/1~39	P15~P250/1~43
Sound pressure leve (measured in anech		dB <a>	65.0 / 67.0	65.5 / 69.5	63.5 / 66.5
Sound power level (measured in anechoic room) *4 dB <a>		dB <a>	82.5 / 86.0	83.5 / 88.5	82.0 / 85.5
Refrigerant piping L	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
FAN 1	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
Į.	Air flow rate	m³/min	300	305	365
		L/s	5,000	5,083	6,083
		cfm	10,593	10,770	12,888
	Control, Driving me	chanism	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
	Motor output	kW	0.46 x 2	0.46 x 2	0.92 x 2
	External static pre	ess.	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)
	Туре		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	10.9	12.4	13.3
	Case heater	kW	-	-	-
External finish	ouse floater	1000	Pre-coated galvanized steel sheets	Pre-coated galvanized steel sheets	Pre-coated galvanized steel sheets
External limer			(+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	HxWxD	mm	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,750 x 740
LAGITIAI UIITIGIISIOII	IIVAAVD	in.		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	
Protection I-	High pressure pro		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 (COI	MP./FAN)	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		-	-	-
	Fan motor		<u>-</u>	-	-
	Type x original ch	arge	R410A x 9.8 kg (22 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)
Net weight		kg (lbs)	278 (613)	294 (649)	337 (743)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
Optional parts			Header: CMY-Y104/108/1010-G	Header: CMY-Y104/108/1010-G	Header: CMY-Y104/108/1010-G

Notes:

 *1 , *2 Nominal conditions (subject to JIS B8615-2) + ErP Lot 21/6 calculation method to EN14825

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

*3 Nominal heating conditions (subject to JIS B8615-2) Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)



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

Eurovent registered

*4 Cooling mode / Heating mode

*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O).

Consult your dealer about the specification when setting External static pressure option.

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

PUHY-P YSNW-A(-BS)



Specifications

Model			PUHY-P400Y	SNW-A (-BS)	PUHY-P450Y	SNW-A (-BS)	PUHY-P500Y	SNW-A (-BS)
Power source				400-415 V 50/60 Hz	3-phase 4-wire 380-			400-415 V 50/60 Hz
Cooling capacity	*1	kW		5.0	5-priase 4-wire 300-			6.0
(Nominal)	· ·	BTU/h		,500	170			,100
(NOTHITIAL)	D							
	Power input	kW		.62		15	14.	
	EER	kW/kW	3.87		3.80			79
	EER (ErP)*	kW/kW		13	4.			70
Temp. range of	Indoor	W.B.	15.0~24.0 °C		15.0~24.0 °C			C (59~75 °F)
cooling	Outdoor	D.B.	-5.0~52.0 °C	(23~126 °F)	-5.0~52.0 °C	(23~126 °F)	-5.0~52.0 °C	(23~126 °F)
Heating capacity	*2	kW	50	0.0	56	.0	63	3.0
(Max)		BTU/h	170	,600	191	100	215	,000
,	Power input	kW	11	.54	13	23	15	.18
	COP	kW/kW	4.		4.:			.15
	COP (ErP) ⁺	kW/kW		29		16		06
(Nomina		kW		5.0	50			3.0
(I tollillia)	BTU/h		,500		600		,100
	Power input	kW		18	9.			.72
	COP	kW/kW	5.	50	5.	35	5.	22
			450.0700	2 /50 04 %E\	450.0700	2 (FO 04 %E)	450.0700	0 (50 04 %5)
Temp. range of	Indoor	D.B.	15.0~27.0 °C		15.0~27.0 °C			C (59~81 °F)
heating	Outdoor	W.B.		C (-4~60 °F)	-20.0~15.5 °			C (-4~60 °F)
Indoor unit	Total capacity			loor unit capacity	50~130% of outo			door unit capacity
connectable	Model / Quantity		P15~P2	50/1~34	P15~P2	50/1~39	P15~P2	50/1~43
Sound pressure le		dB <a>	61.0	/ 62 0	62.0	63.0	63.0	/ 64.0
(measured in ane	choic room) *4	ub \A>	01.0	02.0	02.07	03.0	03.0	7 04.0
Sound power leve	el .	10 .4.	70.0	1040	00.0	.00.0	04.0	1000
(measured in ane	choic room) *4	dB <a>	78.0	81.0	80.0	82.0	81.0	/ 83.0
Refrigerant piping		mm (in.)	12.7 (1/2	?) Brazed	15.88(5/8	3) Brazed	15.88(5/8	3) Brazed
diameter	Gas pipe	mm (in.)		/8) Brazed	28.58(1-1)			/8) Brazed
Set Model	Cuo p.po			-/		-, -:		
Model			PLIHY-P200YNW-A (-RS)	PUHY-P200YNW-A (-BS)	PLIHY-P200YNW-A (-RS)	PHHY-P250YNW-A (-RS)	PLIHY-P250YNW-A (-RS)	PUHY-P250YNW-A (-RS)
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
IAN	Air flow rate	m³/min	170	170	170	185	185	185
	All llow rate	L/s	2,833	2,833	2,833	3,083	3,083	3,083
			6,003	6,003	6,003	6,532	6,532	6,532
	0 1 1 0 1 1	cfm		rect-driven by motor	Inverter-control, Dir			rect-driven by motor
	Control, Driving m							
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
	External static 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	Туре			metic compressor		metic compressor		metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	
	Matan autout							Inverter
	Motor output	kW	5.6	5.6	5.6	7.0	7.0	7.0
	Case heater	kW kW	5.6				7.0	
External finish			-			7.0	-	
External finish			- Pre-coated galva	5.6	5.6	7.0 - nized steel sheets	- Pre-coated galva	7.0
External finish			Pre-coated galva (+powder coati	5.6 - nized steel sheets	5.6 - Pre-coated galval	7.0 - nized steel sheets ng for -BS type)	Pre-coated galva (+powder coati	7.0 - nized steel sheets
External finish External dimensio	Case heater	kW	Pre-coated galva (+powder coati <munsell 5y<="" td=""><td>5.6 - nized steel sheets ng for -BS type) / 8/1 or similar></td><td>5.6 - Pre-coated galvar (+powder coatir <munsell 5y<="" td=""><td>7.0 - nized steel sheets ng for -BS type) 8/1 or similar></td><td>Pre-coated galva (+powder coati <munsell 5y<="" td=""><td>7.0 - nized steel sheets ng for -BS type) / 8/1 or similar></td></munsell></td></munsell></td></munsell>	5.6 - nized steel sheets ng for -BS type) / 8/1 or similar>	5.6 - Pre-coated galvar (+powder coatir <munsell 5y<="" td=""><td>7.0 - nized steel sheets ng for -BS type) 8/1 or similar></td><td>Pre-coated galva (+powder coati <munsell 5y<="" td=""><td>7.0 - nized steel sheets ng for -BS type) / 8/1 or similar></td></munsell></td></munsell>	7.0 - nized steel sheets ng for -BS type) 8/1 or similar>	Pre-coated galva (+powder coati <munsell 5y<="" td=""><td>7.0 - nized steel sheets ng for -BS type) / 8/1 or similar></td></munsell>	7.0 - nized steel sheets ng for -BS type) / 8/1 or similar>
	Case heater		- Pre-coated galva (+powder coati <munsell (1,798="" 1,858="" 5y="" td="" without<=""><td>5.6 - nized steel sheets ng for -BS type) (8/1 or similar> 1,858 (1,798 without</td><td>5.6 - Pre-coated galvar (+powder coatin <munsell (1,798="" 1,858="" 5y="" td="" without<=""><td>7.0 - nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without</td><td>- Pre-coated galva (+powder coati <munsell 5\<br="">1,858 (1,798 without</munsell></td><td>7.0 - nized steel sheets ng for -BS type) / 8/1 or similar> 1,858 (1,798 without</td></munsell></td></munsell>	5.6 - nized steel sheets ng for -BS type) (8/1 or similar> 1,858 (1,798 without	5.6 - Pre-coated galvar (+powder coatin <munsell (1,798="" 1,858="" 5y="" td="" without<=""><td>7.0 - nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without</td><td>- Pre-coated galva (+powder coati <munsell 5\<br="">1,858 (1,798 without</munsell></td><td>7.0 - nized steel sheets ng for -BS type) / 8/1 or similar> 1,858 (1,798 without</td></munsell>	7.0 - nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without	- Pre-coated galva (+powder coati <munsell 5\<br="">1,858 (1,798 without</munsell>	7.0 - nized steel sheets ng for -BS type) / 8/1 or similar> 1,858 (1,798 without
	Case heater	kW	Pre-coated galva (+powder coati <munsell 5y<br="">1,858 (1,798 without legs) x 920 x 740</munsell>	5.6 - nized steel sheets ng for -BS type) ' 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740	5.6 Pre-coated galvai (+powder coatii <munsell (1,798="" 1,858="" 5y="" 740<="" 920="" legs)="" td="" without="" x=""><td>7.0 - nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740</td><td>Pre-coated galva (+powder coati <munsell 5\<br="">1,858 (1,798 without legs) x 920 x 740</munsell></td><td>7.0 - nized steel sheets ng for -BS type) / 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740</td></munsell>	7.0 - nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740	Pre-coated galva (+powder coati <munsell 5\<br="">1,858 (1,798 without legs) x 920 x 740</munsell>	7.0 - nized steel sheets ng for -BS type) / 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740
	Case heater	kW		5.6 - nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without	5.6	7.0 - nized steel sheets g for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without		7.0 - nized steel sheets ng for -BS type) / 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without
External dimensio	Case heater	mm in.	- Pre-coated galva (+powder coati <munsell (1,798="" (70-13="" 1,858="" 16="" 16<="" 29-3="" 36-1="" 4="" 5y="" 73-3="" 740="" 920="" legs)="" td="" without="" x=""><td>5.6 nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 1,953 (1,703/16 without legs) x 361/14 x 29-3/16</td><td>5.6 Pre-coated galvai (+powder coatii <munsell 5y<br="">1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16</munsell></td><td>7.0 - nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 7-33/16 (70-13/16 without legs) x 36-1/4 x 29-3/16</td><td>- Pre-coated galva (+powder coati <munsell (1,798="" (70-13="" 1,858="" 16="" 16<="" 29-3="" 36-1="" 4="" 5y="" 73-3="" 740="" 920="" legs)="" td="" without="" x=""><td>7.0 - nized steel sheets ng for -BS type) '8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16</td></munsell></td></munsell>	5.6 nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 1,953 (1,703/16 without legs) x 361/14 x 29-3/16	5.6 Pre-coated galvai (+powder coatii <munsell 5y<br="">1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16</munsell>	7.0 - nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 7-33/16 (70-13/16 without legs) x 36-1/4 x 29-3/16	- Pre-coated galva (+powder coati <munsell (1,798="" (70-13="" 1,858="" 16="" 16<="" 29-3="" 36-1="" 4="" 5y="" 73-3="" 740="" 920="" legs)="" td="" without="" x=""><td>7.0 - nized steel sheets ng for -BS type) '8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16</td></munsell>	7.0 - nized steel sheets ng for -BS type) '8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16
External dimensio	Case heater	mm in.	Pre-coated galva (+powder coati	5.6 nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch	5.6 Pre-coated galvai (+powder coatii <munsell (1,798="" (70-13="" 1,858="" 16="" 29-3="" 36-1="" 4="" 5y="" 73-3="" 740="" 920="" high="" legs)="" pressure="" sensor<="" td="" without="" x=""><td>7.0 - nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 7-3-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch</td><td>Pre-coated galva (+powder coati</td><td>7.0 - nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch</td></munsell>	7.0 - nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 7-3-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch	Pre-coated galva (+powder coati	7.0 - nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch
External dimensio	n HxWxD High pressure pro	mm in.	Pre-coated galva (+powder coati	5.6 - nized steel sheets ng for -BS type) 8/1 or similar- 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch a (601 psi)	5.6 Pre-coated galvai (+powder coatii < MUNSELL 5Y 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure sensor at 4.15 MP	7.0 nized steel sheets g for -BS type) 8/1 or similar- 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch a (601 psi)	Pre-coated galva (+powder coati	7.0
External dimensio	Case heater n HxWxD High pressure pre- Inverter circuit (CO	mm in.	Pre-coated galva (+powder coati <pre></pre> <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	5.6 - nized steel sheets ng for -BS type) 8/1 or similar- 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch a (601 psi) Over-current protection	5.6 Pre-coated galval (+powder coatility (+powd	7.0 - nized steel sheets g for -BS type) 8/1 or similar- 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch a (601 psi) Over-current protection	Pre-coated galva (+powder coati	7.0 - nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch
External dimensio	n HxWxD High pressure pro Inverter circuit (CO Compressor	mm in.	Pre-coated galva (+powder coati	5.6 - nized steel sheets ng for -BS type) 8/1 or similar- 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch a (601 psi)	5.6 Pre-coated galvai (+powder coatii < MUNSELL 5Y 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure sensor at 4.15 MP	7.0 nized steel sheets g for -BS type) 8/1 or similar- 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch a (601 psi)	Pre-coated galva (+powder coati	7.0
External dimension Protection devices	Case heater High pressure pre- Inverter circuit (CO Compressor Fan motor	mm in. otection MP./FAN)	Pre-coated galva (+powder coati (+po	5.6 nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 7-3-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16. High pressure switch a (601 psi) Over-current protection -	5.6 Pre-coated galvai (+powder coatii (+powder	7.0 nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 7-3-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch a (601 psi) Over-current protection -	Pre-coated galva (+powder coati (+po	7.0 - nized steel sheets ng for -BS type) ' 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 '73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch a (601 psi) Over-current protection -
External dimension Protection devices Refrigerant	n HxWxD High pressure pro Inverter circuit (CO Compressor	mm in. otection MP/FAN)	Pre-coated galva (+powder coati (+po	5.6 - nized steel sheets ng for -BS type) 8/1 or similar- 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 4 (601 psi) Diver-current protection - R410A x 6.5 kg (15 lbs)	5.6 Pre-coated galvai (+powder coatii < +MUNSELL 5% 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure sensor at 4.15 MP Over-heat protection, 0	7.0	Pre-coated galva (+powder coati (+po	7.0
External dimensio Protection devices Refrigerant Net weight	Case heater High pressure pre- Inverter circuit (CO Compressor Fan motor	mm in. otection MP./FAN)	Pre-coated galva (+powder coati	5.6 nized steel sheets ng for -BS type) 8/1 or similar- 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch a (601 psi) Over-current protection - R410A x 6.5 kg (15 lbs) 225 (497)	5.6 Pre-coated galvai (+powder coatii <munsell (="" (1,798="" (15="" (497)<="" (70-13="" -="" 1,858="" 16="" 225="" 29-3="" 36-1="" 4="" 4.15="" 5y="" 6.5="" 73-3="" 740="" 920="" at="" high="" kg="" lbs)="" legs)="" mf="" over-heat="" pressure="" protection,="" r410a="" sensor="" td="" without="" x=""><td>7.0 </td><td>Pre-coated galva (+powder coati</td><td>7.0 - nized steel sheets ng for -BS type) (8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 , High pressure switch 24 (601 psi) Over-current protection - R410A x 6.5 kg (15 lbs) 225 (497)</td></munsell>	7.0	Pre-coated galva (+powder coati	7.0 - nized steel sheets ng for -BS type) (8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 , High pressure switch 24 (601 psi) Over-current protection - R410A x 6.5 kg (15 lbs) 225 (497)
External dimension Protection devices Refrigerant	Case heater High pressure pre- Inverter circuit (CO Compressor Fan motor	mm in. otection MP/FAN)	Pre-coated galva (+powder coati	5.6 - nized steel sheets ng for -BS type) 8/1 or similar- 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 4 (601 psi) Diver-current protection - R410A x 6.5 kg (15 lbs)	5.6 Pre-coated galvai (+powder coatii <munsell (="" (1,798="" (15="" (497)<="" (70-13="" -="" 1,858="" 16="" 225="" 29-3="" 36-1="" 4="" 4.15="" 5y="" 6.5="" 73-3="" 740="" 920="" at="" high="" kg="" lbs)="" legs)="" mf="" over-heat="" pressure="" protection,="" r410a="" sensor="" td="" without="" x=""><td>7.0 </td><td>Pre-coated galva (+powder coati</td><td>7.0 </td></munsell>	7.0	Pre-coated galva (+powder coati	7.0
External dimensio Protection devices Refrigerant Net weight Heat exchanger	Case heater In HxWxD High pressure pro- Inverter circuit (CO Compressor Fan motor Type x original ch	mm in. otection MP/FAN)	Pre-coated galva (+powder coati	5.6 nized steel sheets ng for -BS type) 8/1 or similar- 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch a (601 psi) Over-current protection - R410A x 6.5 kg (15 lbs) 225 (497)	5.6 Pre-coated galvai (+powder coatii <munsell (="" (1,798="" (15="" (497)<="" (70-13="" -="" 1,858="" 16="" 225="" 29-3="" 36-1="" 4="" 4.15="" 5y="" 6.5="" 73-3="" 740="" 920="" at="" high="" kg="" lbs)="" legs)="" mf="" over-heat="" pressure="" protection,="" r410a="" sensor="" td="" without="" x=""><td>7.0 </td><td>Pre-coated galva (+powder coati</td><td>7.0 - nized steel sheets ng for -BS type) (8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 , High pressure switch 24 (601 psi) Over-current protection - R410A x 6.5 kg (15 lbs) 225 (497)</td></munsell>	7.0	Pre-coated galva (+powder coati	7.0 - nized steel sheets ng for -BS type) (8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 , High pressure switch 24 (601 psi) Over-current protection - R410A x 6.5 kg (15 lbs) 225 (497)
External dimensio Protection devices Refrigerant Net weight Heat exchanger Pipe between unit	Case heater High pressure pre- Inverter circuit (CO Compressor Fan motor Type x original ch	mm in. otection MP/FAN) marge kg (lbs) mm (in.)	Pre-coated galva (+powder coati (+po	5.6	5.6 Pre-coated galvai (+powder coatii < +MUNSELL 5Y 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure sensor at 4.15 MP Over-heat protection, 0 R410A x 6.5 kg (15 lbs) 225 (497) Salt-resistant cross 9.52(3/8) Brazed	7.0 nized steel sheets g for -BS type) 8/1 or similar- 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch a (601 psi) Over-current protection R410A x 6.5 kg (15 lbs) 225 (497) s fin & copper tube 9.52 (3/8) Brazed	Pre-coated galva (+powder coati (+po	7.0
External dimension Protection devices Refrigerant Net weight Heat exchanger Pipe between unit and distributor	Case heater In HxWxD High pressure pro- Inverter circuit (CO Compressor Fan motor Type x original ch	mm in. otection MP./FAN) harge kg (lbs)	Pre-coated galva (+powder coati (+powder coati (+powder coati +powder co	5.6	5.6 Pre-coated galvai (+powder coatii	7.0	Pre-coated galva (+powder coati (+po	7.0
External dimensio Protection devices Refrigerant Net weight Heat exchanger Pipe between unit	Case heater High pressure pressure circuit (CO Compressor Fan motor Type x original children	mm in. otection MP/FAN) marge kg (lbs) mm (in.)	Pre-coated galva (+powder coati (+powder coati (+powder coati +powder co	5.6 nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch a (601 psi) Over-current protection - R410A x 6.5 kg (15 lbs) 225 (497) s fin & copper tube 9.52 (3/8) Brazed 22.2 (7/8) Brazed dit CMY-Y100VBK3	5.6 Pre-coated galvai (+powder coatii < +MUNSELL 5Y 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure sensor at 4.15 MP Over-heat protection, 0 R410A x 6.5 kg (15 lbs) 225 (497) Salt-resistant cross 9.52(3/8) Brazed	7.0 nized steel sheets ng for -BS type) 8/1 or similar- 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch a (601 psi) Over-current protection - R410A x 6.5 kg (15 lbs) 225 (497) s fin & copper tube 9.52 (3/8) Brazed 22.2 (7/8) Brazed it: CMY-Y100VBK3	Pre-coated galva (+powder coatie de galva (+po	7.0

Notes:

*1,*2 Nominal conditions (subject to JIS B8615-2) + ErP Lot 21/6 calculation method to EN14825

-		Indoor	Indoor Outdoor		Level difference	
Ī	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.)	
Ī	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} Nominal heating conditions (subject to JIS B8615-2) Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)





Eurovent registered

*4 Cooling mode / Heating mode

*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O).

Consult your dealer about the specification when setting External static pressure option.

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

PUHY-P YSNW-A(-BS)



Specifications

Model			PUHY-P550Y	SNW-A (-BS)	PUHY-P600Y	SNW-A (-BS)	PUHY-P650Y	SNW-A (-BS)
Power source				400-415 V 50/60 Hz		400-415 V 50/60 Hz		-400-415 V 50/60 Hz
Cooling capacity	*1	kW		3.0		0.0		3.0
(Nominal)	•	BTU/h		.000		.400		.100
(11011111111)	Power input	kW		.54		.88		.79
	EER		3.59		3.47		3.51	
	EER (ErP)+	kW/kW		45		24		15
Temp. range of	Indoor	W.B.			15.0~24.0 °C			C (59~75 °F)
	Outdoor	D.B.	15.0~24.0 °C (59~75 °F) -5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C			(23~126 °F)
).0		0.5		1.5	
			400		,000		,100	
(Max)	D	BTU/h kW		.99		.17		.61
	Power input COP							
		kW/kW		06		99		77
(4)	COP (ErP)*	kW/kW		83		63		17
(Nomina	al) ^3	kW		3.0		0.0		3.0
		BTU/h		,000		,400		,100
	Power input	kW		.54	14			.66
	COP	kW/kW	5.	02	4.	85	4.	66
			45.0.07.0.0	2 (50, 04 05)	45.0.07.0.0	2 (50, 04 05)	45.0.07.0.0	0 (50 04 05)
Temp. range of	Indoor	D.B.	15.0~27.0 °C		15.0~27.0 °C			C (59~81 °F)
heating	Outdoor	W.B.		C (-4~60 °F)	-20.0~15.5 °			C (-4~60 °F)
Indoor unit	Total capacity			loor unit capacity		loor unit capacity		door unit capacity
connectable	Model / Quantity		P15~P2	50/2~47	P15~P2	50/2~50	P15~P2	250/2~50
Sound pressure le (measured in ane		dB <a>	63.5 / 66.0		64.0 / 67.5		66.5 / 68.0	
Sound power leve (measured in ane		dB <a>	82.0 / 85.0		83.0 / 86.5		84.0 / 87.0	
Refrigerant piping		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	
Set Model	Gas pipe	111111 (111.)	20.30(1-1)	o) brazed	20.30(1-1)	o) brazed	20.30 (1-1	70) DIAZCO
Model			DITHY-D250ANM-V (-BS)	DITHA-D300ANM-V (*BZ)	PUHY-P300YNW-A (-BS)	DITHA-D300ANM-V (-B2)	DITHY-D250ANM-V (*BS)	DITHA-DAUUANM-V (*BZ)
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	185	240	240	240	185	300
	/ III IIOW Tato	L/s	3,083	4.000	4.000	4.000	3.083	5,000
		cfm	6,532	8,474	8.474	8,474	6,532	10,593
	Control, Driving m			ect-driven by motor		ect-driven by motor		rect-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.46 x 2
*5	External static pr		0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type	_ 50.		metic compressor		metic compressor		metic compressor
Compressor	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	7.0	7.9	7.9	7.9	7.0	10.9
	Case heater	kW	-	-	-	-	-	-
External finish	Oasc ricator	KVV		nized steel sheets		nized steel sheets		nized steel sheets
LAterrial IIIIISII				ng for -BS type)		ng for -BS type)		ng for -BS type)
				8/1 or similar>		' 8/1 or similar>		/ 8/1 or similar>
External dimension	n HvMvD			1.858 (1.798 without		1.858 (1.798 without		1.858 (1.798 without
LAternal dimension	JII I IAVVAD	mm	legs) x 920 x 740	legs) x 920 x 740	legs) x 920 x 740	legs) x 920 x 740	legs) x 920 x 740	legs) x 1,240 x 740
				73-3/16 (70-13/16 without			73-3/16 (70-13/16 without	
		in.	legs) x 36-1/4 x 29-3/16	legs) x 36-1/4 x 29-3/16	legs) x 36-1/4 x 29-3/16	legs) x 36-1/4 x 29-3/16	legs) x 36-1/4 x 29-3/16	legs) x 48-7/8 x 29-3/16
Protection	High pressure pr	otection		High pressure switch		High pressure switch		High pressure switch
devices	Investor 1 9 /00	MAD /EAR!	at 4.15 MF			a (601 psi)		Pa (601 psi)
	Inverter circuit (CO	MP./FAN)	Over-heat protection, (Over-current protection	Over-heat protection, (Over-current protection	Over-heat protection,	Over-current protection
	Compressor		-	-	-	-	-	-
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original cl	narge	R410A x 6.5 kg (15 lbs)	K410A x 6.5 kg (15 lbs)	R410A x 6.5 kg (15 lbs)	K410A x 6.5 kg (15 lbs)	K410A x 6.5 kg (15 lbs)	K410A x 9.8 kg (22 lbs)

Notes:

Net weight

Optional parts

Net weignt
Heat exchanger
Pipe between unit Liquid pipe
and distributor Gas pipe

*1,*2 Nominal conditions (subject to JIS B8615-2) + ErP Lot 21/6 calculation method to EN14825

225 (497)

9.52(3/8) Brazed

	Indoor	Indoor Outdoor		Level difference	
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m (24.0/16ft.)	0 (041)	
Cooling	(81°F DB/66°F 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.)	

228 (508)

Salt-resistant cross fin & copper tube 9.52(3/8) Brazed 12.7 (1/2) Brazed

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

Outdoor Twinning kit: CMY-Y100VBK3 Header: CMY-Y104/108/1010-G

228 (503)

12.7 (1/2) Brazed

228 (503)

Salt-resistant cross fin & copper tube 2.7 (1/2) Brazed 12.7(1/2) Brazed

22.2(7/8) Brazed 22.2 (7/8) Brazed Outdoor Twinning kit: CMY-Y100VBK3 Header: CMY-Y104/108/1010-G

225 (497)

278 (613)

 Salt-resistant cross fin & copper tube

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

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

Outdoor Twinning kit: CMY-Y100VBK3 Header: CMY-Y104/108/1010-G

kg (lbs)

mm (in.) mm (in.)

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



^{*3} Nominal heating conditions (subject to JIS B8615-2) Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.) Eurovent registered

 ^{*4} Cooling mode/ Heating mode
 *5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O). Consult your dealer about the specification when setting External static pressure option.

PUHY-P YSNW-A(-BS)



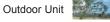
Specifications

Model			PUHY-P700Y	SNW-A (-BS)	PUHY-P7 <u>50</u> Y	SNW-A (-BS)	PUHY-P800Y	SNW-A (-BS)
Power source				400-415 V 50/60 Hz		400-415 V 50/60 Hz	3-phase 4-wire 380-	
Cooling capacity	*1	kW		0.0		5.0		0.0
(Nominal)		BTU/h	273	,000	290	,000	307	.100
,	Power input	kW	·			.56	26.39	
	EER	kW/kW	3.			46	3.4	
	EER (ErP)+	kW/kW		93		86	3.95	
Temp. range of	Indoor	W.B.	15.0~24.0 °C			C (59~75 °F)	15.0~24.0 °C (59~75 °F)	
cooling	Outdoor	D.B.		(23~126 °F)		(23~126 °F)	-5.0~52.0 °C	
Heating capacity	*2			88.0 95.0			0.0	
(Max)	-	BTU/h		,300		,100		,200
(Wax)	Power input	kW		.79		.81	28	
	COP	kW/kW		36		68		56
	COP (ErP)+	kW/kW		16		87		10
(Nomina		kW		0.0		5.0		0.0
(INOTITITA	ıı) 3	BTU/h		,000		,000		,100
	Power input			.53		.22		.99
		kW						
	СОР	kW/kW	4.	56	4.	42	4.	00
T (In door		45.0.07.00	2 (50, 04 %5)	45.0.07.00	2 (50, 04 %5)	450.0700	2 (50, 04 %5)
Temp. range of	Indoor	D.B.	15.0~27.0 °C			C (59~81 °F)	15.0~27.0 °C	
heating	Outdoor	W.B.		C (-4~60 °F)		C (-4~60 °F)	-20.0~15.5 °	
Indoor unit	Total capacity			loor unit capacity		door unit capacity	50~130% of outo	
connectable	Model / Quantity		P15~P2	50/2~50	P15~P2	50/2~50	P15~P2	50/2~50
Sound pressure le		dB <a>	65.0	67.0	67.0	/ 68.5	67.5	/710
(measured in ane		ub 🗥	00.0	01.0	07.0		07.07	7 1.0
Sound power leve		dB <a>	83.5	/ 86 N	84.5	/ 88.0	85.5	/ 80 5
(measured in ane		UD \A>						
Refrigerant piping	gerant piping Liquid pipe mm (in.)		19.05 (3/-	4) Brazed	19.05 (3/-	4) Brazed	19.05 (3/-	4) Brazed
diameter	Gas pipe	mm (in.)	34.93 (1-3	/8) Brazed	34.93 (1-3	/8) Brazed	34.93 (1-3	/8) Brazed
Set Model								
Model			PUHY-P350YNW-A (-BS)	PUHY-P350YNW-A (-BS)	PUHY-P350YNW-A (-BS)	PUHY-P400YNW-A (-BS)	PUHY-P350YNW-A (-BS)	PUHY-P450YNW-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	270	270	270	300	270	305
		L/s	4,500	4,500	4,500	5,000	4,500	5,083
		cfm	9,534	9,534	9,534	10,593	9,534	10,770
	Control, Driving 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	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2
*5	External static pr		0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Туре			metic compressor		metic compressor	Inverter scroll her	
00p. 0000.	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	9.8	9.8	9.8	10.9	9.8	12.4
	Case heater	kW	3.0	3.0	3.0	-	3.0	12.7
External finish	Oasc ricator	KVV		nized steel sheets	Dro contod galvo	nized steel sheets	Dro coated galver	nized steel sheets
LAterrial IIIISII				ng for -BS type)		ng for -BS type)		ng for -BS type)
			<munsell 5y<="" td=""><td></td><td></td><td>' 8/1 or similar></td><td><munsell 5y<="" td=""><td></td></munsell></td></munsell>			' 8/1 or similar>	<munsell 5y<="" td=""><td></td></munsell>	
External dimension	··· Llu/MuD	1		1,858 (1,798 without		1,858 (1,798 without		1,858 (1,798 without
External dimensio	חוו אייווו	mm						
			legs) x 1,240 x 740	legs) x 1,240 x 740	legs) x 1,240 x 740	legs) x 1,240 x 740	legs) x 1,240 x 740	legs) x 1,240 x 740
		in.	73-3/16 (70-13/16 without			73-3/16 (70-13/16 without		73-3/16 (70-13/16 without
			legs) x 48-7/8 x 29-3/16		legs) x 48-7/8 x 29-3/16	legs) x 48-7/8 x 29-3/16	legs) x 48-7/8 x 29-3/16	legs) x 48-7/8 x 29-3/16
	Table 1							
Protection	High pressure pre	otection	High pressure sensor	High pressure switch	High pressure sensor	High pressure switch	High pressure sensor	
Protection devices			High pressure sensor at 4.15 MP	High pressure switch a (601 psi)	High pressure sensor at 4.15 MF	High pressure switch (601 psi)	High pressure sensor at 4.15 MP	a (601 psi)
	Inverter circuit (CO		High pressure sensor at 4.15 MP	High pressure switch	High pressure sensor at 4.15 MF	High pressure switch	High pressure sensor at 4.15 MP	
	Inverter circuit (CO Compressor		High pressure sensor at 4.15 MP	High pressure switch a (601 psi)	High pressure sensor at 4.15 MF	High pressure switch (601 psi)	High pressure sensor at 4.15 MP	a (601 psi)
	Inverter circuit (CO		High pressure sensor at 4.15 MP Over-heat protection, 6	High pressure switch (a (601 psi) Over-current protection	High pressure sensor at 4.15 MF Over-heat protection, 6	, High pressure switch 2 (601 psi) Over-current protection	High pressure sensor at 4.15 MP Over-heat protection, (Pa (601 psi) Over-current protection
	Inverter circuit (CO Compressor	MP./FAN)	High pressure sensor at 4.15 MP Over-heat protection, 6	High pressure switch (a (601 psi) Over-current protection	High pressure sensor at 4.15 MF Over-heat protection, 6	High pressure switch (a (601 psi) Over-current protection	High pressure sensor at 4.15 MP Over-heat protection, (Pa (601 psi) Over-current protection
devices	Inverter circuit (CO Compressor Fan motor	MP./FAN)	High pressure sensor at 4.15 MP Over-heat protection, 6	High pressure switch (a (601 psi) Over-current protection	High pressure sensor at 4.15 MF Over-heat protection, 6	, High pressure switch 2 (601 psi) Over-current protection	High pressure sensor at 4.15 MP Over-heat protection, (Pa (601 psi) Over-current protection
Refrigerant Net weight	Inverter circuit (CO Compressor Fan motor	MP./FAN)	High pressure sensor at 4.15 MF Over-heat protection, (- - R410A x 9.8 kg (22 lbs) 278 (613)	High pressure switch a (601 psi) Over-current protection - R410A x 9.8 kg (22 lbs) 278 (613)	High pressure sensor at 4.15 MF Over-heat protection, (- - R410A x 9.8 kg (22 lbs) 278 (613)	High pressure switch (a (601 psi) Over-current protection - R410A x 9.8 kg (22 lbs) 278 (613)	High pressure sensor at 4.15 MP Over-heat protection, (- - R410A x 9.8 kg (22 lbs) 278 (613)	a (601 psi) Over-current protection - R410A x 10.8 kg (24 lbs) 294 (649)
Refrigerant Net weight Heat exchanger	Inverter circuit (CO Compressor Fan motor Type x original ch	MP./FAN) narge kg (lbs)	High pressure sensor at 4.15 MF Over-heat protection, (High pressure switch a (601 psi) Over-current protection - R410A x 9.8 kg (22 lbs) 278 (613) s fin & copper tube	High pressure sensor at 4.15 MF Over-heat protection, (- R410A x 9.8 kg (22 lbs) 278 (613) Salt-resistant cros	High pressure switch (a (601 psi) Over-current protection R410A x 9.8 kg (22 lbs) 278 (613) s fin & copper tube	High pressure sensor at 4.15 MP Over-heat protection, (R410A x 9.8 kg (22 lbs) 278 (613) Salt-resistant cros	a (801 psi) Over-current protection - R410A x 10.8 kg (24 lbs) 294 (649) s fin & copper tube
Refrigerant Net weight Heat exchanger Pipe between unit	Inverter circuit (CO Compressor Fan motor Type x original ch	MP./FAN) marge kg (lbs) mm (in.)	High pressure sensor at 4.15 MF Over-heat protection, 4 R410A x 9.8 kg (22 lbs) 278 (613) Salt-resistant cros 12.7 (1/2) Brazed	High pressure switch a (601 psi) Over-current protection - R410A x 9.8 kg (22 lbs) 278 (613) s fin & copper tube 12.7(1/2) Brazed	High pressure sensor at 4.15 MF Over-heat protection, 4-15 MF	High pressure switch a (601 psi) Over-current protection - R410A x 9.8 kg (22 lbs) 278 (613) s fin & copper tube 15.88 (5/8) Brazed	High pressure sensor at 4.15 MP Over-heat protection, (- R410A x 9.8 kg (22 lbs) 278 (613) Salt-resistant cross 12.7 (1/2) Brazed	Over-current protection R410A x 10.8 kg (24 lbs) 294 (649) s fin & copper tube 15.88 (5/8) Brazed
Refrigerant Net weight Heat exchanger Pipe between unit and distributor	Inverter circuit (CO Compressor Fan motor Type x original ch	MP./FAN) marge kg (lbs) mm (in.)	High pressure sensor at 4.15 MF Over-heat protection, 4-15 MF	High pressure switch a (601 psi) Over-current protection R410A x 9.8 kg (22 lbs) 278 (613) 5 fin & copper tube 12.7(1/2) Brazed 28.58 (1-1/8) Brazed	High pressure sensor at 4.15 MF Over-heat protection, 4-15 MF	High pressure switch a (601 psi) Over-current protection	High pressure sensor at 4.15 MP Over-heat protection, 0 - R410A x 9.8 kg (22 lbs) 278 (613) Salt-resistant cros 12.7 (1/2) Brazed 28.58 (1-1/8) Brazed	a (601 psi) Diver-current protection - R410A x 10.8 kg (24 lbs) 294 (649) 5 fin & copper tube 15.88 (5/8) Brazed 28.58 (1-1/8) Brazed
Refrigerant Net weight Heat exchanger Pipe between unit	Inverter circuit (CO Compressor Fan motor Type x original ch	MP./FAN) marge kg (lbs) mm (in.)	High pressure sensor at 4.15 MF Over-heat protection, 4-15 MF	High pressure switch a (601 psi) Over-current protection - R410A x 9.8 kg (22 lbs) 278 (613) s fin & copper tube 12.7(1/2) Brazed 28.58 (1-1/8) Brazed it: CMY-Y200VBK2	High pressure sensor at 4.15 MF Over-heat protection, (High pressure switch a (601 psi) Over-current protection - R410A x 9.8 kg (22 lbs) 278 (613) s fin & copper tube 15.88 (5/8) Brazed	High pressure sensor at 4.15 MP Over-heat protection, 0 - R410A x 9.8 kg (22 lbs) 278 (613) Salt-resistant cros 12.7 (1/2) Brazed 28.58 (1-1/8) Brazed	a (601 psi) Dver-current protection - R410A x 10.8 kg (24 lbs) 294 (649) s fin & copper tube 15.88 (5/8) Brazed 28.58 (1-1/8) Brazed it: CMY-Y200VBK2

Notes:

	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} Nominal heating conditions (subject to JIS B8615-2) Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)



<sup>Pipe lengin: 7.5 in (24-9) to 1.5, Exerci sinesciolo. 7 in (24-9)

Curovent registered

Cooling mode / Heating mode

Society of the static pressure option is available (30 Pa, 80 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O). Consult your dealer about the specification when setting External static pressure option.

Due to continuing improvement, above specification may be subject to change without notice.</sup>

PUHY-P YSNW-A(-BS)



Specifications

Model				SNW-A (-BS)	PUHY-P900YSNW-A (-BS)		
Power source				400-415 V 50/60 Hz	·	-400-415 V 50/60 Hz	
Cooling capacity	*	. 1000		3.0		1.0	
(Nominal)		BTU/h		,600	344,600		
	Power input	kW		.91	30.79		
	EER	kW/kW		32		28	
	EER (ErP)+	kW/kW		89	3.97		
Temp. range of	Indoor	W.B.		C (59~75 °F)		C (59~75 °F)	
ooling	Outdoor	D.B.	-5.0~52.0 °C	(23~126 °F)	-5.0~52.0 °C	(23~126 °F)	
leating capacity	**	2 kW	_	8.0		3.0	
(Max)		BTU/h	368	,500	385	,600	
	Power input	kW	31	.57	34	.03	
	COP	kW/kW	3.	42	3.	32	
	COP (ErP)+	kW/kW	3.	85	4.	05	
(Nomina	al) *:	3 kW	96	5.0	10	1.0	
	BTU/h		327	,600	344	,600	
	Power input	kW	21	.90	22	.64	
	COP	kW/kW	4.	38	4.	46	
emp. range of	Indoor	D.B.	15.0~27.0 °C	C (59~81 °F)	15.0~27.0 °C (59~81 °F)		
eating	Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F) -20.0~15.5 °C (-4~60 °F)			°C (-4~60 °F)	
ndoor unit Total capacity			50~130% of outo	door unit capacity	50~130% of outo	door unit capacity	
connectable Model / Quantity			P15~P2	50/2~50	P15~P2	250/2~50	
Sound pressure level measured in anechoic room) *4 dB <a>		dB <a>	68.5 / 71.5		68.5	/ 72.5	
Sound power lever measured in ane		dB <a>	86.0 / 90.5		86.5 / 91.5		
Refrigerant pipino		mm (in.)	19.05 (3/4) Brazed		19.05 (3/4) Brazed		
liameter	Gas pipe	mm (in.)		i/8) Brazed	41.28 (1-5/8) Brazed		
Set Model	Todo p.po		(, , , , , , , , , , , , , , , , , , , ,	(,	
Model			PUHY-P400YNW-A (-BS)	PUHY-P450YNW-A (-BS)	PUHY-P450YNW-A (-BS)	PUHY-P450YNW-A (-BS)	
AN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	
	Air flow rate	m³/min	300	305	305	305	
	7	L/s	5,000	5,083	5,083	5,083	
		cfm	10.593	10.770	10.770	10.770	
	Control, Driving r			rect-driven by motor		rect-driven by motor	
	Motor output	kW	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2	
*£	External static p		0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	
ompressor	Type	1033.	- (/	metic compressor		metic compressor	
omproduci	Starting method		Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	10.9	12.4	12.4	12.4	
	Case heater	kW	10.0	16.7	16.7	-	
xternal finish	Todase Hodier	I KVV	(+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	on HxWxD	mm	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) 1,240 x 740	
		in.	73-3/16 (70-13/16 without legs) x	73-3/16 (70-13/16 without legs) x	73-3/16 (70-13/16 without legs) x	73-3/16 (70-13/16 without leg	

		mm	1,240 x 740	1,240 x 740	1,240 x 740	1,240 x 740	
			73-3/16 (70-13/16 without legs) x	73-3/16 (70-13/16 without legs) x	73-3/16 (70-13/16 without legs) x	73-3/16 (70-13/16 without legs) x	
		in.	48-7/8 x 29-3/16	48-7/8 x 29-3/16	48-7/8 x 29-3/16	48-7/8 x 29-3/16	
Protection	High pressure pro	otection	High pressure sensor, High press	sure switch at 4.15 MPa (601 psi)	High pressure sensor, High press	sure switch at 4.15 MPa (601 psi)	
devices	Inverter circuit (CO	MP./FAN)	Over-heat protection, 0	Over-current protection	Over-heat protection, 0	Over-current protection	
	Compressor		-	-	-	-	
	Fan motor		-	-	-	-	
Refrigerant	Type x original ch	narge	R410A x 9.8 kg (22 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)	
Net weight		kg (lbs)	278 (613)	294 (649)	294 (649)	294 (649)	
Heat exchanger			Salt-resistant cross fin & copper tube Salt-resistant cross fin & copper			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	d 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	Optional parts		Outdoor Twinning I	kit: CMY-Y200VBK2	Outdoor Twinning kit: CMY-Y200VBK2		
			Header: CMY-Y	104/108/1010-G	Header: CMY-Y104/108/1010-G		

Notes:

,	(,			
	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5 (24.0/464.)	
Cooling	(81°F DB/66°F 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} Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
Eurovent registered

*4 Cooling mode / Heating mode

*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O).
Consult your dealer about the specification when setting External static pressure option.

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



PUHY-P YSNW-A(-BS)



Specifications

Power input Nominal Surface Suphase Awins 308-4004 15 \(\subset 5 \) 5080 Hz Suphase Suphas	Model			PI	JHY-P950YSNW-A (-B	(S)	PI	JHY-P1000YSNW-A (-E	35)
Cooling capacity									
Power input KW 29 st 3.85.500 385.500		*1	l kW			113.0			
Power input NW 29.91 32.01									
EER	,	Power input					32.01		
Temp. range of Indoor		EER		3.61			3.53		
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)		EER (ErP)+	kW/kW		4.13			4.07	
Heating capacity	Temp. range of	Indoor	W.B.	1	15.0~24.0 °C (59~75 °F)			15.0~24.0 °C (59~75 °F	=)
Heating capacity	cooling	Outdoor	D.B.	-:	5.0~52.0 °C (23~126 °I	F)		5.0~52.0 °C (23~126 °I	F)
Power input MV	Heating capacity	*2	2 kW				127.0		
COP KW/KW	(Max)		BTU/h		407,700			433,300	
COP (EPT)		Power input	kW		30.40			33.42	
Nominary 13 kW 108.0 113.0			kW/kW					3.80	
Power input W 22.78 335,000					4.39			4.17	
Power input kW	(Nomina	al) *3	kW		108.0			113.0	
COP W/kW 4.74			BTU/h		368,500			385,600	
Temp. range of heating Indoor D.B. 15.0~27.0 °C (59~81 °F) 15.0~27.0 °C (59~81 °F) 20.0~15.5 °C (4~60 °F) 2		Power input	kW		22.78			24.44	
Nearing Outdoor W.B. -20.0-15.5 °C (4-60 °F) -20.0-15.5 °C (COP	kW/kW		4.74			4.62	
Nearing Outdoor W.B. -20.0-15.5 °C (4-60 °F) -20.0-15.5 °C (
Indoor unit capacity									
Model Cuantity	heating		W.B.						
Sound pressure level (measured in anechoic room) 14				50~1		pacity	50~1		pacity
Control, Driving mechanism Motor output KW 0.92 x 1 0.46 x 2 0.46 x 2 0.46 x 2 0.92 x 1 0.46 x 2 0.46			<u>' </u>		P15~P250/2~50			P15~P250/2~50	
Measured in anechoic room 4			. dR <Δ>		66.0 / 68.0			68.0 / 69.5	
(measured in anechoic room)			1 45 76						
Refrigerant ping Liquid pipe mm (in.) 19.05(3/4) Brazed 19.05(3/4) Brazed 41.28 (1-5/8) Brazed 41.28			dB <a>		84.5 / 87.0			85.5 / 88.5	
Model Fan Mark Fan Ma		0110101001111	+						
Puty-250YNW-A (BS)	0 11 0								
Pulty-2507NW-A_(6S) Pulty-2507NM-A_(6S) Pulty-2507NM-A_(6S) Pulty-2507NM-A_(6S) Pulty-2507NM-A_(6S) Pulty-2507NM-A_(6S) Pulty-2507NM-A_(6S) Pulty-2507NM-A_(6S) Pulty-2507N-A_(6S) Pulty-2507N-A_(6S) Pulty-2507N-A_(6S) Pulty-2507N-A_(6S) Pulty-2507N-A_(6S) Pul		Gas pipe	mm (in.)		41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed	
Type x Quantity				DININ DOCOVANA A (DO)	DILLIV DOCOVANA A (DO)	DILLIV DOCOVANA A (DO)	DILLIV DOCOVERN A / DO	DILLIV DOCOVANA A (DO)	DILLIV DAGGVALLA (DO)
Air flow rate		Type v Ouentity							
L/s 3,083 4,500 4,500 3,083 4,500 5,000	IAN		m ³ /min						
Control, Driving mechanism Inverter control, Direct-driven by motor Inverter-control, Direct-driven by motor Inverter I		All llow rate							
Control, Driving mechanism Inverter Control, Direct-driven by motor Inverter Control, Direct-driven by motor Inverter O.46 x 2									
Motor output		Control Driving m							
External static press. 0 Pa (0 mmHzO) 0 Pa (0 mmHzO									
Type	*5								
Starting method Inverter In			1033.	, ,			,	. , ,	
Motor output	Compressor								
External finish									
Pre-coated galvanized steel sheets				-					
Compressor Fan motor High pressure protection High pressure sensor, High pressure, Sensor High pressure sensor, High pressure sentch at 4.15 MPa (601 psi) High pressure sensor, High pressure sent at 4.15 MPa (601 psi) Nover-heat protection, Over-current protection Over-heat protection, Over-curren	External finish	Case ricator	I KVV						
External dimension HxWxD									
External dimension HxWxD									
Protection devices	External dimension	n HxWxD							
Total Tota			mm						
In.									
Protection devices			in.						
Inverter circuit (COMP/FAN) Over-heat protection, Over-current protection Over-heat protection Over-heat protection, Over-current protection Over-heat protection Over-	Protection	High pressure pr	rotection						
Fan motor	devices								
Fan motor					-	-		-	-
Net weight kg (lbs) 225 (497) 278 (613) 278 (613) 225 (497) 278 (613) <t< td=""><td></td><td></td><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></t<>				-	-	-	-	-	-
Heat exchanger Salt-resistant cross fin & copper tube Salt-resistant cross fin & copper tube	Refrigerant	Type x original c	harge						
Pipe between unit and distributor Liquid pipe and distributor mm (in.) 9.52 (3/8) Brazed 12.7 (1/2) Brazed 12.7 (1/2) Brazed 9.52 (3/8) Brazed 12.7 (1/2)	Net weight		kg (lbs)						
and distributor Gas pipe mm (in.) 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed 28.58 (1-1/8) Brazed 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed 28	Heat exchanger								
Optional parts Outdoor Twinning kit: CMY-Y300VBK3 Outdoor Twinning kit: CMY-Y300VBK3			mm (in.)						15.88 (5/8) Brazed
Optional parts Outdoor Twinning kit: CMY-Y300VBK3 Outdoor Twinning kit: CMY-Y300VBK3 Header: CMY-Y104/108/1010-G Header: CMY-Y104/108/1010-G	and distributor	Gas pipe	mm (in.)						
Header: CMY-Y104/108/1010-G Header: CMY-Y104/108/1010-G	Optional parts						Outdoo	r Twinning kit: CMY-Y3	00VBK3
				Head	der: CMY-Y104/108/10	10-G	Hea	der: CMY-Y104/108/10	10-G

Notes:

	Indoor	Indoor Outdoor		Level difference	
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m (24-9/16ft.)	0m (0ft.)	
- 3	(81°F DB/66°F WB)	(95°F DB/75°F WB)	. (,	,	
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)	

^{*3} Nominal heating conditions (subject to JIS B8615-2) Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B.66 °CW.B. (45 °FD.B./43 °FW.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
Eurovent registered
*4 Cooling mode / Heating mode
*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmHzO, 6.1 mmHzO, 8.2 mmHzO).
Consult your dealer about the specification when setting External static pressure option.
*Due to continuing improvement, above specification may be subject to change without notice.



PUHY-P YSNW-A(-BS)



Outdoor Twinning kit: CMY-Y300VBK3 Header: CMY-Y104/108/1010-G

Specifications

Model			PUHY-P1050YSNW-A (-BS)	PUHY-P1100YSNW-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)		BTU/h	402,600	423,100
	Power input	kW	34.10	35.53
	EER	kW/kW	3.46	3.49
	EER (ErP)+	kW/kW	4.02	3.89
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	132.0	140.0
(Max)		BTU/h	450,400	477,700
	Power input	kW	35.86	37.43
	COP	kW/kW	3.68	3.74
	COP (ErP)+	kW/kW	3.96	3.96
(Nomina	al) *3	kW	118.0	124.0
`		BTU/h	402,600	423,100
	Power input	kW	26.10	27.74
	COP	kW/kW	4.52	4.47
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~P250/3~50	P15~P250/3~50
Sound pressure leading and measured in and		dB <a>	68.5 / 70.5	68.5 / 70.0
Sound power leve measured in ane		dB <a>	86.0 / 89.5	86.0 / 89.0
Refrigerant piping		mm (in.)	19.05(3/4) Brazed	19.05(3/4) Brazed
diameter	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed	41.28 (1-5/8) Brazed

Set Model									
Model			PUHY-P250YNW-A (-BS)	PUHY-P400YNW-A (-BS)	PUHY-P400YNW-A (-BS)	PUHY-P350YNW-A (-BS)	PUHY-P350YNW-A (-BS)	PUHY-P400YNW-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	185	300	300	270	270	300	
		L/s	3,083	5,000	5,000	4,500	4,500	5,000	
		cfm	6,532	10,593	10,593	9,534	9,534	10,593	
	Control, Driving m	echanism	Inverter-	-control, Direct-driven b	by motor	Inverter	-control, Direct-driven I	by motor	
	Motor output	kW	0.92 x 1	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2	
*5	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	Туре		Inverte	er scroll hermetic comp	ressor	Invert	er scroll hermetic comp	ressor	
·	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	7.0	10.9	10.9	9.8	9.8	10.9	
	Case heater	kW	-	-	-	-	-	-	
External finish			Pre-coated galvanized steel sheets			Pre-coated galvanized steel sheets			
			(+powder coating for -BS type)				owder coating for -BS t		
			<mi< td=""><td>JNSELL 5Y 8/1 or simi</td><td>lar></td><td><m< td=""><td colspan="3"><munsell 1="" 5y="" 8="" or="" similar=""></munsell></td></m<></td></mi<>	JNSELL 5Y 8/1 or simi	lar>	<m< td=""><td colspan="3"><munsell 1="" 5y="" 8="" or="" similar=""></munsell></td></m<>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>		
External dimensio	n HxWxD	mm	1,858 (1,798 without	1,858 (1,798 without	1,858 (1,798 without	1,858 (1,798 without	1,858 (1,798 without	1,858 (1,798 without	
		1111111	legs) x 920 x 740	legs) x 1,240 x 740	legs) x 1,240 x 740	legs) x 1,240 x 740	legs) x 1,240 x 740	legs) x 1,240 x 740	
		in.	73-3/16 (70-13/16 without	73-3/16 (70-13/16 without	73-3/16 (70-13/16 without	73-3/16 (70-13/16 without	73-3/16 (70-13/16 without	73-3/16 (70-13/16 without	
		111.	legs) x 36-1/4 x 29-3/16	legs) x 48-7/8 x 29-3/16	legs) x 48-7/8 x 29-3/16	legs) x 48-7/8 x 29-3/16	legs) x 48-7/8 x 29-3/16	legs) x 48-7/8 x 29-3/16	
Protection	High pressure pr	otection	High pressure sensor	, High pressure switch	at 4.15 MPa (601 psi)		, High pressure switch		
devices	Inverter circuit (CC	MP./FAN)	Over-heat	protection, Over-curren	t protection	Over-heat	protection, Over-curren	t protection	
	Compressor		-	-	-	-	-	-	
	Fan motor		-	-	-	-	-	-	
Refrigerant	Type x original cl	narge	R410A x 6.5 kg (15 lbs)	R410A x 9.8 kg (22 lbs)	R410A x 9.8 kg (22 lbs)	R410A x 9.8 kg (22 lbs)	R410A x 9.8 kg (22 lbs)	R410A x 9.8 kg (22 lbs)	
Net weight		kg (lbs)	225 (497)	278 (613)	278 (613)	278 (613)	278 (613)	278 (613)	
Heat exchanger				sistant cross fin & copp			sistant cross fin & copp		
Pipe between unit		mm (in.)	9.52 (3/8) Brazed	15.88 (5/8) 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		
Optional parts			Outdoor	Twinning kit: CMY-Y3	00VBK3	Outdoo	r Twinning kit: CMY-Y3	00VBK3	

Notes:

*1,*2 Nominal conditions (subject to JIS B8615-2) + ErP Lot 21/6 calculation method to EN14825

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

Outdoor Twinning kit: CMY-Y300VBK3 Header: CMY-Y104/108/1010-G

*3 Nominal heating conditions (subject to JIS B8615-2) Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)



Eurovent registered

4 Cooling mode / Heating mode

5 Externel static pressure option is available (30 Pa, 80 Pa, 80 Pa/3.1 mmHzO, 6.1 mmHzO, 8.2 mmHzO).

Consult your dealer about the specification when setting External static pressure option.

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

PUHY-P YSNW-A(-BS)



Specifications

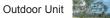
Model			PU	HY-P1150YSNW-A (-E	BS)	PU	HY-P1200YSNW-A (-E	BS)
Power source				4-wire 380-400-415 V			4-wire 380-400-415 V	
Cooling capacity	*1	kW		130.0			136.0	
(Nominal)		BTU/h		443,600			464,000	
(INOTHINAL)	Power input	kW		37.9			40.35	
	EER	A		3.43			3.37	
	EER (ErP)+			3.84			3.81	
T		kW/kW	4		-\			٠,
Temp. range of	Indoor	W.B.		5.0~24.0 °C (59~75 °F			5.0~24.0 °C (59~75 °F	
cooling	Outdoor	D.B.	-5	5.0~52.0 °C (23~126 °F	-)		5.0~52.0 °C (23~126 °F	-)
Heating capacity	*2			145.0			150.0	
(Max)		BTU/h		494,700			511,800	
	Power input	kW		39.94			42.37	
	COP	Α		3.63			3.54	
	COP (ErP)+	kW/kW		3.78			3.62	
(Nomina	ıl) *3	kW		130.0			136.0	
		BTU/h		443,600			464,000	
	Power input	kW		29.68			31.62	
	COP	kW/kW		4.38			4.30	
Temp. range of	Indoor	D.B.	1	5.0~27.0 °C (59~81 °F	-)	1	5.0~27.0 °C (59~81 °F	-)
heating	Outdoor	W.B.	-2	20.0~15.5 °C (-4~60 °F)	-:	20.0~15.5 °C (-4~60 °F)
Indoor unit	Total capacity		50~13	30% of outdoor unit car	pacity	50~1	30% of outdoor unit car	pacity
connectable	Model / Quantity			P15~P250/3~50			P15~P250/3~50	
Sound pressure le	evel							
(measured in ane		dB <a>	69.0 / 71.0 70.0 / 72.0					
Sound power leve								
	measured in anechoic room) *4 dB <a>			86.5 / 90.0			87.5 / 91.0	
Refrigerant piping		mm (in.)		19.05(3/4) Brazed			19.05(3/4) Brazed	
diameter	Gas pipe	mm (in.)		41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed	
Set Model	Cuo pipo	· · · · · · · · · · · · · · · · · · ·		11.20 (1.0/0) 2.4204			11.20 (1.0/0) 2.4204	
Model			DITHY-D350VNW-A (-BS)	DITHY-DANNYNW-A (-RS)	DITHA-DAUUANM-V (-BS)	PUHY-P400YNW-A (-BS)	DITHY-DANNYNW-A (-RS)	DITHY-DANNYNW-A (-RS)
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
1744	Air flow rate	m³/min	270	300	300	300	300	300
	7 til HOW Tato						000	
				5 000	5 000	5,000	5,000	5,000
		L/s cfm	4,500 9.534	5,000	5,000	5,000	5,000	5,000 10,593
	Control Driving m	cfm	9,534	10,593	10,593	10,593	10,593	10,593
	Control, Driving m	cfm echanism	9,534 Inverter-	10,593 control, Direct-driven b	10,593 by motor	10,593 Inverter	10,593 control, Direct-driven b	10,593 by motor
*5	Motor output	cfm echanism kW	9,534 Inverter- 0.46 x 2	10,593 control, Direct-driven b 0.46 x 2	10,593 by motor 0.46 x 2	10,593 Inverter 0.46 x 2	10,593 control, Direct-driven b 0.46 x 2	10,593 by motor 0.46 x 2
*5	Motor output External static pr	cfm echanism kW	9,534 Inverter- 0.46 x 2 0 Pa (0 mmH ₂ O)	10,593 control, Direct-driven b 0.46 x 2 0 Pa (0 mmH ₂ O)	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O)	10,593 Inverter- 0.46 x 2 0 Pa (0 mmH ₂ O)	10,593 control, Direct-driven b 0.46 x 2 0 Pa (0 mmH ₂ O)	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O)
*5 Compressor	Motor output External static pro	cfm echanism kW	9,534 Inverter- 0.46 x 2 0 Pa (0 mmH ₂ O) Inverte	10,593 control, Direct-driven b 0.46 x 2 0 Pa (0 mmH ₂ O) er scroll hermetic comp	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) pressor	10,593 Inverter 0.46 x 2 0 Pa (0 mmH ₂ O) Inverte	10,593 -control, Direct-driven b 0.46 x 2 0 Pa (0 mmH ₂ O) er scroll hermetic comp	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor
	Motor output External static pro Type Starting method	cfm echanism kW ess.	9,534 Inverter- 0.46 x 2 0 Pa (0 mmH ₂ O) Inverte	10,593 control, Direct-driven b 0.46 x 2 0 Pa (0 mmH ₂ O) er scroll hermetic comp Inverter	10,593 oy motor 0.46 x 2 0 Pa (0 mmH ₂ O) oressor Inverter	10,593 Inverter 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter	10,593 -control, Direct-driven b 0.46 x 2 0 Pa (0 mmH ₂ O) er scroll hermetic comp Inverter	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter
	Motor output External static pr Type Starting method Motor output	cfm echanism kW ess.	9,534 Inverter- 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter 9.8	10,593 control, Direct-driven b 0.46 x 2 0 Pa (0 mmH ₂ O) er scroll hermetic comp	10,593 by motor 0.46 x 2 0 Pa (0 mmH₂O) bressor Inverter 10.9	10,593 Inverter- 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter 10.9	10,593 -control, Direct-driven b 0.46 x 2 0 Pa (0 mmH ₂ O) er scroll hermetic comp	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor
Compressor	Motor output External static pro Type Starting method	cfm echanism kW ess.	9,534 Inverter- 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter 10 nverter 9.8	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmH ₂ O) er scroll hermetic comp Inverter 10.9	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9	10,593 Inverter 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter 10.9	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmH ₂ O) er scroll hermetic comp Inverter 10.9	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9
	Motor output External static pr Type Starting method Motor output	cfm echanism kW ess.	9,534 Inverter- 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter Inverter 9.8 - Pre-co	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmHzO) er scroll hermetic comp Inverter 10.9 - sated galvanized steel	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9 sheets	10,593 Inverter 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter 10.9	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmHzO) er scroll hermetic comp Inverter 10.9 - pated galvanized steel	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9 - sheets
Compressor	Motor output External static pr Type Starting method Motor output	cfm echanism kW ess.	9,534 Inverter- 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter 9.8 - Pre-co (+po	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmH ₂ O) er scroll hermetic comp Inverter 10.9	10,593 yy motor	10,593 Inverter 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter 10.9 - Pre-cc (+pc	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmH ₂ O) er scroll hermetic comp Inverter 10.9	10,593 yy motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9 - sheets ype)
Compressor External finish	Motor output External static pr Type Starting method Motor output Case heater	cfm echanism kW ess.	9,534 Inverter- 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter 9.8 - Pre-co (+po	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmHzO) er scroll hermetic comp Inverter 10.9	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9 - sheets ype) lar>	10,593	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmHz/0) er scroll hermetic comp Inverter 10.9	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9 - sheets ype) lar>
Compressor	Motor output External static pr Type Starting method Motor output Case heater	cfm echanism kW ess.	9,534 Inverter- 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter 9.8 - Pre-co (+pc - ML 1,858 (1,798 without	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmHzO) er scroll hermetic comp Inverter 10.9 - valed galvanized steel swider coating for -BS to JNSELL 5Y 8/1 or simil 1,858 (1,798 without	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9 - sheets ype) lar> 1,858 (1,798 without	10,593 Inverter 0.46 x 2	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmHzO) er scroll hermetic comp Inverter 10.9 - valed galvanized steel swider coating for -BS to JNSELL 5Y 8/1 or simil 1,858 (1,798 without	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9 - sheets ype) lar> 1,858 (1,798 withou
Compressor External finish	Motor output External static pr Type Starting method Motor output Case heater	cfm echanism kW ess.	9,534	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmHzO) er scroll hermetic comp Inverter 10.9 atted galvanized steel swder coating for -BS to JNSELL 5Y 8/1 or simil 1,858 (1,798 without legs) x 1,240 x 740	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9 sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740	10,593 Inverter 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter 10.9	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmHzO) er scroll hermetic comp Inverter 10.9 ated galvanized steel swder coating for -BS to JNSELL 5Y 8/1 or simil 1,858 (1,798 without legs) x 1,240 x 740 x 740	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9 - sheets type) lar> 1,858 (1,798 without legs) x 1,240 x 740
Compressor External finish	Motor output External static pr Type Starting method Motor output Case heater	cfm echanism kW ess. kW employeess.	9,534	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmHzO) er scroll hermetic comp Inverter 10.9 - valed galvanized steel swider coating for -BS to JNSELL 5Y 8/1 or simil 1,858 (1,798 without	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9 sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740	10,593 Inverter 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter 10.9	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmHzO) er scroll hermetic comp Inverter 10.9 - valed galvanized steel swider coating for -BS to JNSELL 5Y 8/1 or simil 1,858 (1,798 without	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9 - sheets type) lar> 1,858 (1,798 without legs) x 1,240 x 740
Compressor External finish	Motor output External static pr Type Starting method Motor output Case heater	cfm echanism kW ess.	9,534	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmHzO) er scroll hermetic comp Inverter 10.9 atted galvanized steel swder coating for -BS to JNSELL 5Y 8/1 or simil 1,858 (1,798 without legs) x 1,240 x 740	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9 - sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without	10,593 Inverter 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter 10.9	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmHzO) er scroll hermetic comp Inverter 10.9 ated galvanized steel swder coating for -BS to JNSELL 5Y 8/1 or simil 1,858 (1,798 without legs) x 1,240 x 740 x 740	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9 - sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without
Compressor External finish	Motor output External static pr Type Starting method Motor output Case heater	cfm echanism kW ess. kW kW in.	9,534 Inverter- 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter Inverter 9.8 - Pre-co (+pc -	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmH ₂ O) or scroll hermetic compound inverter 10.9 ated galvanized steel budger coating for -BS to JNSELL 5Y 8/1 or simil 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9 - sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 45-78 x 29-3/16	10,593 Inverter 0.46 x 2 0 Pa (0 mmHzO) Inverter 10.9 - Pre-cc (+pc < Mm 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 42-7/8 x 29-3/16	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmH ₂ O) er scroll hermetic comp Inverter 10.9 ated galvanized steel swder coating for -BS to JNSELL 5Y 8/1 or simil 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9 - sheets ypp lar> 1,858 (1,798 withou legs) x 1,240 x 740 7-3-3/16 (70-13/16 withou legs) x 4-7/8 x 29-3/16
External finish External dimension	Motor output External static pn Type Starting method Motor output Case heater	cfm echanism kW ess. kW kW in.	9,534 Inverter- 0.46 x 2 0 Pa (0 mmHzO) Inverter 9.8 - Pre-co (+pc < ML 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor,	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmHzO) er scroll hermetic comp Inverter 10.9	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9 - sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 ps)	10,593 Inverter 0.46 x 2 0 Pa (0 mmHzO) Inverter 10.9	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmHzO) er scroll hermetic comp Inverter 10.9	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9 - sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi
External finish External dimensio	Motor output External static pr Type Starting method Motor output Case heater HxWxD High pressure pr	cfm echanism kW ess. kW kW in.	9,534 Inverter- 0.46 x 2 0 Pa (0 mmHzO) Inverter 9.8 - Pre-co (+pc < ML 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor,	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmHzO) er scroll hermetic comp Inverter 10.9	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9 - sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 ps)	10,593 Inverter 0.46 x 2 0 Pa (0 mmHzO) Inverter 10.9	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmHzO) er scroll hermetic comp Inverter 10.9	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9 - sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi
External finish External dimensio	Motor output External static pr Type Starting method Motor output Case heater High pressure pr Inverter circuit (CO Compressor	cfm echanism kW ess. kW kW in.	9,534 Inverter- 0.46 x 2 0 Pa (0 mmHzO) Inverter 9.8 - Pre-co (+pc < ML 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor,	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmHzO) er scroll hermetic comp Inverter 10.9 ated galvanized steel swder coating for -BS to 1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16, High pressure switch protection, Over-curren	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9 - sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 ps)	10,593 Inverter 0.46 x 2 0 Pa (0 mmHz0) Inverter 10.9	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmHzO) er scroll hermetic comp Inverter 10.9 cated galvanized steel swder coating for -BS to 1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16, High pressure switch protection, Over-curren	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9 - sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi
External finish External dimension Protection devices	Motor output External static pr Type Starting method Motor output Case heater High pressure pr Inverter circuit (CO Compressor Fan motor	cfm echanism kW ess. kW mm in. otection MP/FAN)	9,534	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmHzO) er scroll hermetic comp Inverter 10.9 - ated galvanized steel : which is seen to be se	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9 - sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-78 x 29-3/16 at 4.15 MPa (601 psi) t protection	10,593 Inverter. 0.46 x 2 0 Pa (0 mmHzO) Inverter 10.9	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmHzO) er scroll hermetic comp Inverter 10.9 - ated galvanized steel of the coating for -BS to 10,500 to 1	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9 - sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi t protection -
External finish External dimension Protection devices Refrigerant	Motor output External static pr Type Starting method Motor output Case heater High pressure pr Inverter circuit (CO Compressor	cfm echanism kW ess. kW kW mm in. otection MP/FAN)	9,534	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmHzO) er scroll hermetic comp Inverter 10.9	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9 - sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) t protection - R410A x 9.8 kg (22 lbs)	10,593 Inverter. 0.46 x 2 0 Pa (0 mmHzO) Inverter 10.9	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmHzO) er scroll hermetic comp Inverter 10.9 ated galvanized steel swder coating for -BS to 1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch protection, Over-curren	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9 - sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi t protection - R410A x 9.8 kg (22 lbs)
External finish External dimension Protection devices Refrigerant Net weight	Motor output External static pr Type Starting method Motor output Case heater High pressure pr Inverter circuit (CO Compressor Fan motor	cfm echanism kW ess. kW mm in. otection MP/FAN)	9,534	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmHzO) er scroll hermetic comp Inverter 10.9 ated galvanized steel swder coating for -BS ty JNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch protection, Over-curren	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9 sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) t protection R410A x 9.8 kg (22 lbs) 278 (613)	10,593 Inverter 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter 10.9	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmHzO) er scroll hermetic comp inverter 10.9 ated galvanized steel swder coating for -BS to 1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16, High pressure switch protection, Over-curren R410A x 9.8 kg (22 lbs) 278 (613)	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9 - sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) t protection - R410A x 9.8 kg (22 lbs) 278 (613)
External finish External dimension Protection devices Refrigerant Net weight Heat exchanger	Motor output External static pr Type Starting method Motor output Case heater High pressure pr Inverter circuit (CO Compressor Fan motor Type x original ch	cfm echanism kW ess. kW kW mm in. otection MP/FAN) harge kg (lbs)	9,534	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmHzO) er scroll hermetic comp Inverter 10.9	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9 - sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) tt protection - R410A x 9.8 kg (22 lbs) 278 (613) er tube	10,593	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmHzO) er scroll hermetic comp Inverter 10.9	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9 - sheets ypel lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-78 x 29-3/16 at 4.15 MPa (601 psi) t protection - R410A x 9.8 kg (22 lbs) 278 (613) er tube
External finish External dimension Protection devices Refrigerant Net weight Heat exchanger Pipe between unit	Motor output External static pr Type Starting method Motor output Case heater High pressure pr Inverter circuit (CO Compressor Fan motor Type x original cf	cfm echanism kW ess. kW kW mm in. otection MP/FAN) marge kg (lbs)	9,534 Inverter- 0.46 x 2 0 Pa (0 mmHzO) Inverter 9.8 - Pre-co (+pc - Mt legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor, Over-heat pressure sensor, Over-heat pressure sensor, Salt-res 278 (613) Salt-res 12.7 (1/2) Brazed	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmHzO) er scroll hermetic comp Inverter 10.9	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9 - sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-78 x 29-3/16 at 4.15 MPa (601 psi) t protection - R410A x 9.8 kg (22 lbs) 278 (613) ver tube 15.88 (5/8) Brazed	10,593	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmHzO) er scroll hermetic comp Inverter 10.9	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9 - sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) t protection - R410A x 9.8 kg (22 lbs) 278 (613) ert tube 15.88 (5/8) Brazed
External finish External dimension Protection devices Refrigerant Net weight Heat exchanger	Motor output External static pr Type Starting method Motor output Case heater High pressure pr Inverter circuit (CO Compressor Fan motor Type x original ch	cfm echanism kW ess. kW kW mm in. otection MP/FAN) marge kg (lbs)	9,534	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmHzO) er scroll hermetic comp Inverter 10.9	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9 - sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) t protection - R410A x 9.8 kg (22 lbs) 278 (613) ser tube 15.88 (5/8) Brazed 28.58 (1-1/8) Brazed	10,593 Inverter. 0.46 x 2 0 Pa (0 mmHzO) Inverter 10.9	10,593 control, Direct-driven to 0.46 x 2 0 Pa (0 mmHzO) er scroll hermetic comp Inverter 10.9	10,593 by motor 0.46 x 2 0 Pa (0 mmH ₂ O) ressor Inverter 10.9

Notes:

*1,*2 Nominal conditions (subject to JIS B8615-2) + ErP Lot 21/6 calculation method to EN14825

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

Header: CMY-Y104/108/1010-G



Header: CMY-Y104/108/1010-G



^{*3} Nominal heating conditions (subject to JIS B8615-2) Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

<sup>Pipe lengin: 7.5 in (24-9) to 1.5, Exerci sinesciolo. 7 in (24-9)

Curovent registered

Cooling mode / Heating mode

Society of the static pressure option is available (30 Pa, 80 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O). Consult your dealer about the specification when setting External static pressure option.

Due to continuing improvement, above specification may be subject to change without notice.</sup>

PUHY-P YSNW-A(-BS)



Specifications

Model		PUHY-P1250YSNW-A (-BS)			PUHY-P1300YSNW-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)		BTU/h		477,700			498,200	
	Power input	kW		41.91			44.10	
	EER	kW/kW		3.34			3.31	
	EER (ErP)+	kW/kW		3.87			3.92	
Temp. range of	Indoor	W.B.	1	5.0~24.0 °C (59~75 °F	-)	1	5.0~24.0 °C (59~75 °F	:)
cooling				5.0~52.0 °C (23~126 °I			5.0~52.0 °C (23~126 °F	
Heating capacity	1000000	*2 kW		156.5			163.0	/
(Max)		BTU/h		534,000			556,200	
(max)	Power input	kW		45.23			48.08	
	COP	kW/kW		3.46			3.39	
	COP (ErP)+	kW/kW		3.78			3.92	
(Nomina		*3 kW		140.0			146.0	
(1401111110	41)	BTU/h		477,700			498,200	
	Power input	kW		32.11			33.10	
	COP	kW/kW		4.36			4.41	
	COP	KVV/KVV		4.30			4.41	
Temp. range of	Indoor	D.B.	1	5.0~27.0 °C (59~81 °F	1		5.0~27.0 °C (59~81 °F	:)
heating	Outdoor	W.B.		20.0~27.0 °C (59~61 F			20.0~15.5 °C (-4~60 °F	
Indoor unit	Total capacity			30% of outdoor unit ca			30% of outdoor unit ca	
connectable	Model / Quan		50~ I		pacity	50~1	P15~P250/3~50	pacity
Sound pressure le		iity		P15~P250/3~50			P15~P250/3~50	
(measured in ane	choic room)	*4 dB <a>		70.0 / 73.0			70.0 / 73.5	
Sound power leve measured in ane		*4 dB <a>	87.5 / 92.0		88.0 / 92.5			
Refrigerant piping		mm (in.	19.05(3/4) Brazed			19.05(3/4) Brazed		
diameter	Gas pipe	mm (in.	41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed		
Set Model	Jour Pipe	1	/ !	(, .)		J.	(, .,	
Model			PUHY-P400YNW-A (-BS)	PUHY-P400YNW-A (-BS)	PUHY-P450YNW-A (-BS)	PUHY-P400YNW-A (-BS)	PUHY-P450YNW-A (-BS)	PUHY-P450YNW-A (-BS)
FAN	Type x Quanti	tv	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		300	305	300	305	305
		L/s	5.000	5.000	5.083	5,000	5.083	5,083
		cfm	10.593	10.593	10,770	10,593	10.770	10.770
	Control, Driving			-control, Direct-driven I			-control, Direct-driven b	
	Motor output	kW	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2
*5	External station		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)
		press.		er scroll hermetic comp			er scroll hermetic comp	
Compressor	Type Starting metho	- d	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
		kW		10.9	12.4	10.9	12.4	12.4
	Motor output	I KVV	10.9					
						12.4		
Entre on all Callata	Case heater	kW		-	-	-	-	-
External finish	Case heater	kW	Pre-co	- pated galvanized steel	- sheets	- Pre-co	- pated galvanized steel	- sheets
External finish	Case heater	kW	Pre-co (+po	- pated galvanized steel pwder coating for -BS t	sheets ype)	Pre-co (+po	- pated galvanized steel pwder coating for -BS t	sheets ype)
		kW	Pre-cc (+po <m< td=""><td>- pated galvanized steel pwder coating for -BS t UNSELL 5Y 8/1 or simi</td><td>sheets ype) ilar></td><td>Pre-cc (+pc <m< td=""><td>- pated galvanized steel pwder coating for -BS t UNSELL 5Y 8/1 or simi</td><td>- sheets ype) lar></td></m<></td></m<>	- pated galvanized steel pwder coating for -BS t UNSELL 5Y 8/1 or simi	sheets ype) ilar>	Pre-cc (+pc <m< td=""><td>- pated galvanized steel pwder coating for -BS t UNSELL 5Y 8/1 or simi</td><td>- sheets ype) lar></td></m<>	- pated galvanized steel pwder coating for -BS t UNSELL 5Y 8/1 or simi	- sheets ype) lar>
			Pre-cc (+pr <mi 1,858 (1,798 without</mi 	- pated galvanized steel pwder coating for -BS t UNSELL 5Y 8/1 or simi 1,858 (1,798 without	- sheets ype) ilar> 1,858 (1,798 without	- Pre-cc (+pc <m 1,858 (1,798 without</m 	- pated galvanized steel sowder coating for -BS to UNSELL 5Y 8/1 or simit 1,858 (1,798 without	- sheets ype) lar> 1,858 (1,798 without
		kW	Pre-cc (+pc <mi 1,858 (1,798 without legs) x 1,240 x 740</mi 	- pated galvanized steel bwder coating for -BS t UNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740	- sheets ype) ilar> 1,858 (1,798 without legs) x 1,240 x 740	- Pre-cc (+pr <m 1,858 (1,798 without legs) x 1,240 x 740</m 	- pated galvanized steel steel steel conder coating for -BS t UNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740	- sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740
		mm	Pre-cc (+pc <mi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without</mi 	- pated galvanized steel pwder coating for -BS t UNSELL 5Y 8/1 or sim 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without	- sheets ype) ilar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without	- Pre-cc (+pr <m 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without</m 	- pated galvanized steel	- sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without
External dimensio	on HxWxD	mm in.	Pre-cc (+pc <mi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16</mi 	pated galvanized steel bwder coating for -BS t UNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	- sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	- Pre-cc (+pr <m 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16</m 	pated galvanized steel swder coating for -BS trunsELL 5Y 8/1 or simil 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	- sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16
External dimension	n HxWxD	mm in.	Pre-cc (+pc <mi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor</mi 	pated galvanized steel wowder coating for -BS to UNSELL SY 8/1 or simil 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16, High pressure switch	-sheets ype) ilar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi)	- Pre-cc (+pc (+pc (+pc (+pc (+pc (+pc (+pc (+	pated galvanized steel sweder coating for -BS to UNSELL 5Y 8/1 or simil 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16. High pressure switch	- sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi)
External dimension	n HxWxD High pressure	mm in.	Pre-cc (+pc <mi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor</mi 	pated galvanized steel bwder coating for -BS t UNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	-sheets ype) ilar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi)	- Pre-cc (+pc (+pc (+pc (+pc (+pc (+pc (+pc (+	pated galvanized steel swder coating for -BS trunsELL 5Y 8/1 or simil 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	- sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi)
External dimension	High pressure Inverter circuit (Compressor	mm in.	Pre-cc (+pc <mi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor</mi 	pated galvanized steel owder coating for -BS to UNSELL SY 8/1 or simil 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16, High pressure switch	-sheets ype) ilar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi)	- Pre-cc (+pc (+pc (+pc (+pc (+pc (+pc (+pc (+	pated galvanized steel sweder coating for -BS to UNSELL 5Y 8/1 or simil 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16. High pressure switch	- sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi)
External dimension	High pressure Inverter circuit (Compressor Fan motor	in.	Pre-cc (+pc (+pc (+pc (+pc (+pc (+pc (+pc (+	Janeted galvanized steel owder coating for -BS to UNSELL SY 8/1 or simil 1,858 (1,798 without legs) x 1,240 x 740 r3-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 r14gh pressure switch protection, Over-currer	- sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-78 x 29-3/16 at 4.15 MPa (601 psi) tt protection	- Pre-ct (+pt (+pt - 1858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor Over-heat	nated galvanized steel budger coating for -BS to UNSELL 5Y 8/1 or simil 1,858 (1,798 without legs) x 1,240 x 740 173-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 to The correction, Over-curren -	- sheets - sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-78 x 29-3/16 at 4.15 MPa (601 psi) t protection
External dimension Protection devices	High pressure Inverter circuit (Compressor	in.	Pre-cc (+pc (+pc (+pc (+pc (+pc (+pc (+pc (+	pated galvanized steel owder coating for -BS to UNSELL SY 8/1 or simil 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16, High pressure switch	- sheets yppe) repet yppe) ype) ype) ype) ype ype ype 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) t protection - R410A x 10.8 kg (24 lbs)	- Pre-ct (+pt (+pt - 1858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor Over-heat	pated galvanized steel sweder coating for -BS to UNSELL 5Y 8/1 or simil 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 thigh pressure switch protection, Over-curren - R410A x 10.8 kg (24 lbs)	- sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) t protection - R410A x 10.8 kg (24 lbs
External dimension Protection devices Refrigerant	High pressure Inverter circuit (Compressor Fan motor	in.	Pre-cc (+pc (+pc (+pc (+pc (+pc (+pc (+pc (+	Janeted galvanized steel owder coating for -BS to UNSELL SY 8/1 or simil 1,858 (1,798 without legs) x 1,240 x 740 r3-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 r14gh pressure switch protection, Over-currer	- sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-78 x 29-3/16 at 4.15 MPa (601 psi) tt protection	- Pre-ct (+pt (+pt - 1858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor Over-heat	nated galvanized steel budger coating for -BS to UNSELL 5Y 8/1 or simil 1,858 (1,798 without legs) x 1,240 x 740 173-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 to The correction, Over-curren -	- sheets - sheets sype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-78 x 29-3/16 at 4.15 MPa (601 psi) t protection
External dimensic Protection devices Refrigerant Net weight	High pressure Inverter circuit (Compressor Fan motor	mm in. protection COMP./FAN	Pre-cc (+pv M 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor Over-heat R410A x 9.8 kg (22 lbs) 278 (613)	parted galvanized steel wowder coating for -BS to UNSELL SY 8/1 or simil 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 thigh pressure switch protection, Over-currer -R410A x 9.8 kg (22 lbs)	- sheets ype) liar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) it protection	- Pre-cc (+pr (+pr (+pr (+pr (+pr (+pr (+pr (+pr	pated galvanized steel sweder coating for -BS to UNSELL 5Y 8/1 or simil 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 thigh pressure switch protection, Over-curren - R410A x 10.8 kg (24 lbs)	- sheets ypets ypet ypet ypet ypet ypet ypet ypet ypet
External dimensic Protection devices Refrigerant Net weight Heat exchanger	High pressure Inverter circuit (Compressor Fan motor Type x origina	mm in. protection COMP./FAN	Pre-cc (+pc (+pc)	Janeted galvanized steel owder coating for -BS to UNSELL SY 8/1 or simil 1,858 (1,798 without legs) x 1,240 x 740 r3-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 reportection, Over-currer legs of the correction of the correct	- ssheets ype) lar- 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) at the protection - R410A x 10.8 kg (24 lbs) 294 (649) wer tube	- Pre-ct (+pt (+pt (+pt (+pt (+pt (+pt (+pt (+p	paneted galvanized steel obuder coating for -BS to UNSELL 5Y 8/1 or simil 1,858 (1,798 without legs) x 1,240 x 740 r 3-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 , High pressure switch protection, Over-curren results of the coat	- sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) t protection
External dimensic Protection devices Refrigerant Net weight Heat exchanger Pipe between unit	High pressure Inverter circuit (Compressor Fan motor Type x original Liquid pipe	mm in. protection COMP./FAN I charge kg (lbs)	Pre-cc (+pc (+pc (+pc (+pc (+pc (+pc (+pc (+	- valued galvanized steel budger coating for -BS to UNSELL SY 8/1 or simil 1,858 (1,798 without legs) x 1,240 x 740 r3-3/16 (70-13/16 without legs) x 48-78 x 29-3/16 r4 High pressure switch protection, Over-currer - R410A x 9.8 kg (22 lbs) 278 (613) sistant cross fin & copp 15.88 (5/8) Brazed	- sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-78 x 29-3/16 at 4.15 MPa (601 psi) tt protection - R410A x 10.8 kg (24 lbs) 294 (649) ver tube 15.88 (5/8) Brazed	- Pre-ct (+pt (+pt (+pt (+pt (+pt (+pt (+pt (+p	anated galvanized steel budger coating for -BS to UNSELL 5Y 8/1 or simil 1,858 (1,798 without legs) x 1,240 x 740 r3-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 r3-16 r3-	- sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-78 x 29-3/16 at 4.15 MPa (601 psi) t protection - R410A x 10.8 kg (24 lbs) 294 (649) ere tube 15.88 (5/8) Brazed
External dimensic Protection devices Refrigerant Net weight Heat exchanger	High pressure Inverter circuit (Compressor Fan motor Type x origina	mm in. protection COMP./FAN	Pre-cc (+pc)	Janeted galvanized steel owder coating for -BS to UNSELL SY 8/1 or simil 1,858 (1,798 without legs) x 1,240 x 740 r3-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 reportection, Over-currer legs of the correction of the correct	- sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-78 x 29-3/16 at 4.15 MPa (601 psi) tt protection - R410A x 10.8 kg (24 lbs) 294 (649) eer tube 15.88 (5/8) Brazed 28.58 (1-1/8) Brazed	- Pre-cc (+pc (+pc (+pc (+pc (+pc (+pc (+pc (+	paneted galvanized steel obuder coating for -BS to UNSELL 5Y 8/1 or simil 1,858 (1,798 without legs) x 1,240 x 740 r 3-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 , High pressure switch protection, Over-curren results of the coat	- sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) t protection - R410A x 10.8 kg (24 lbs) 294 (649) er tube 15.88 (5/8) Brazed 28.58 (1-1/8) Brazed 28.58 (1-1/8) Brazed

Notes:

	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} Nominal heating conditions (subject to JIS B8615-2) Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Consult your dealer about the specification when setting External static pressure option. *Due to continuing improvement, above specification may be subject to change without notice.



Eurovent registered

*4 Cooling mode / Heating mode

*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O).

PUHY-P YSNW-A(-BS)



Specifications

'				
Model				PUHY-P1350YSNW-A (-BS)
Power sou	urce			3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity *1 kW		kW	150.0	
(Nominal)			BTU/h	511,800
		Power input	kW	45.73
		EER	kW/kW	3.28
		EER (ErP)*	kW/kW	3.97
Temp. ran	ge 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 ca	apacity	*2	kW	168.0
(Max)			BTU/h	573,200
		Power input	kW	50.60
		COP	Α	3.32
		COP (ErP)+	kW/kW	4.05
((Nomina	al) *3	kW	150.0
			BTU/h	511,800
		Power input	kW	33.63
		COP	kW/kW	4.46
Temp. ran	ige 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 uni	it	Total capacity		50~130% of outdoor unit capacity
connectab	ole	Model / Quantity		P15~P250/3~50
Sound pre	essure le		4D 4A>	70.5 / 74.5
(measured	d in ane	choic room) *4	dB <a>	70.5774.5
Sound pov			4D - 4>	88.5 / 93.5
(measured	d in ane	choic room) *4	dB <a>	00.3793.5
Refrigeran	nt piping	Liquid pipe	mm (in.)	19.05(3/4) Brazed
diameter		Gas pipe	mm (in.)	41.28 (1-5/8) Brazed
Set Mode	ı			

Set Model					
Model			PUHY-P450YNW-A (-BS)	PUHY-P450YNW-A (-BS)	PUHY-P450YNW-A (-BS)
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Air flow rate	m³/min	305	305	305
		L/s	5,083	5,083	5,083
		cfm	10,770	10,770	10,770
	Control, Driving n	nechanism		Inverter-control, Direct-driven by motor	
	Motor output	kW	0.46 x 2	0.46 x 2	0.46 x 2
*5	External static p	ress.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)
Compressor	Туре		, , , , , , , , , , , , , , , , , , ,	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	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	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740
		in.	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16
Protection	High pressure p	rotection	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 (CC	OMP./FAN)	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		-	-	-
	Fan motor		-	-	-
Refrigerant	Type x original o		R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)
Net weight		kg (lbs)	294 (649)	294 (649)	294 (649)
Heat exchanger		,		Salt-resistant cross fin & copper tube	
Pipe between unit		mm (in.)	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed
and distributor	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Optional parts				Outdoor Twinning kit: CMY-Y300VBK3 Header: CMY-Y104/108/1010-G	

Notes:

	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} Nominal heating conditions (subject to JIS B8615-2) Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)





Eurovent registered

4 Cooling mode / Heating mode

5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O).

Consult your dealer about the specification when setting External static pressure option.

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

PUHY-EP YNW-A(-BS)

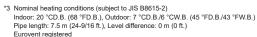


Specifications

Model			PUHY-EP200YNW-A (-BS)	PUHY-EP250YNW-A (-BS)	PUHY-EP300YNW-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)		BTU/h	76,400	95,500	114,300
	Power input	kW	5.07	6.73	8.52
	EER	kW/kW	4.41	4.16	3.93
	EER (ErP)+	kW/kW	5.60	5.10	4.81
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
(Max)	_	BTU/h	85,300	107,500	128,000
(max)	Power input	kW	5,35	7.01	8.78
	COP	kW/kW	4.67	4.49	4.27
	COP (ErP) ⁺	kW/kW	5.55	5.37	4.99
(Nomina		kW	22.4	28.0	33.5
(INOITIII)	ıı) 3		76,400	95,500	114,300
	D	BTU/h			
	Power input	kW	3.86	5.06	6.25
	COP	kW/kW	5.80	5.53	5.36
Temp. range of	Indoor	D.B.	15.0~27.0 °C (59~81 °F)	15.0~27.0 °C (59~81 °F)	15.0~27.0 °C (59~81 °F)
heating	Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)	-20.0~15.5 °C (-4~60 °F)	-20.0~15.5 °C (-4~60 °F)
Indoor unit	Total capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
connectable	Model / Quantity		P15~P250/1~17	P15~P250/1~21	P15~P250/1~26
Sound pressure le		dB <a>	58.0 / 59.0 60.0 / 61.0		61.0 / 64.5
(measured in ane			33107 3310		
Sound power leve (measured in ane		dB <a>	75.0 / 78.0	78.0 / 80.0	80.0 / 83.5
Refrigerant piping	0110101001111			9.52 (3/8) Brazed (12.7 (1/2) Brazed,	9.52 (3/8) Brazed (12.7 (1/2) Brazed,
diameter	Liquid pipe	mm (in.)	9.52 (3/8) Brazed	farthest length >= 90 m)	farthest length >= 40 m)
diamotor	Gas pipe	mm (in.)	22.2 (7/8) Brazed 22.2 (7/8) Brazed		28.58 (1-1/8) Brazed
FAN	Type x Quantity	111111 (111.)	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
IAN	Air flow rate	m³/min	170	185	240
	All llow rate	L/s	2,833	3,083	4,000
		cfm	6.003	6,532	8,474
	Control, Driving m		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1
*5	External static pr		0.92 X T 0 Pa (0 mmH ₂ O)	0.92 X T 0 Pa (0 mmH ₂ O)	0.92 X T 0 Pa (0 mmH ₂ O)
		ess.			
Compressor	Type		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method	114/	Inverter	Inverter	Inverter
	Motor output	kW	5.6	7.0	7.9
E	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	on HxWxD	mm in.	1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16	1,858 (1,798 without legs) x 920 x 740
Protection	High pressure pre			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		-	-	-
	Fan motor		-	-	-
Refrigerant	Type x original ch	narge	R410A x 6.5 kg (15 lbs)	R410A x 6.5 kg (15 lbs)	R410A x 6.5 kg (15 lbs)
Net weight		kg (lbs)	231 (510)	231 (510)	235 (519)
Heat exchanger		. 5 (-/	Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube
Optional parts			Header: CMY-Y104/108/1010-G	Header: CMY-Y104/108/1010-G	Header: CMY-Y104/108/1010-G
- parona parto					

Notes:

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	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/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.)







Fige length: 7.5 in (24-9/16 L), Level dilletence: 0 in (0 L)

Eurovent registered

4. Cooling mode / Heating mode

5. External static pressure option is available (30 Pa, 80 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O).

Consult your dealer about the specification when setting External static pressure option.

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

PUHY-EP YNW-A(-BS)



Specifications

Model			PUHY-EP350YNW-A (-BS)	PUHY-EP400YNW-A (-BS)	PUHY-EP450YNW-A (-BS)	PUHY-EP500YNW-A (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	40.0	45.0	50.0	56.0
(Nominal)		BTU/h	136,500	153,500	170,600	191,100
,	Power input	kW	10.38	12.19	13.40	16.00
	EER	kW/kW	3.85	3.69	3.73	3.50
	EER (ErP)+	kW/kW	4.57	4.30	4.50	4.51
Temp. range of	Indoor	W.B.	15.0~24.0 °C (59~75 °F)	15.0~24.0 °C (59~75 °F)	15.0~24.0 °C (59~75 °F)	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)	-5.0~52.0 °C (23~126 °F)
Heating capacity	*2		45.0	50.0	56.0	63.0
(Max)	-	BTU/h	153,500	170,600	191,100	215,000
(max)	Power input	kW	11.47	13.05	15.01	15.00
	COP	kW/kW	3.92	3.83	3.73	4.20
	COP (ErP) ⁺	kW/kW	4.56	4.03	4.30	4.64
(Nomina		kW	40.0	45.0	50.0	56.0
(INOITIIIIa	11) 3	BTU/h	136,500	153,500	170.600	191,100
	Power input	kW	8.26	9.69	10.46	11.24
	СОР	kW/kW	4.84	4.64	4.78	4.98
Temp. range of	Indoor	D.B.	15.0~27.0 °C (59~81 °F)	15.0~27.0 °C (59~81 °F)	15.0~27.0 °C (59~81 °F)	15.0~27.0 °C (59~81 °F)
heating	Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)	-20.0~15.5 °C (-4~60 °F)	-20.0~15.5 °C (-4~60 °F)	-20.0~15.5 °C (-4~60 °F)
Indoor unit	Total capacity	***		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity
connectable	Model / Quantity		P15~P250/1~30	P15~P250/1~34	P15~P250/1~39	P15~P250/1~43
Sound pressure le			1 13 1 230/1 30	1 13 1 230/1 34	1 13 1 230/1 33	1 13 1 230/1 43
(measured in ane		dB <a>	62.0 / 63.5	65.0 / 65.5	65.5 / 69.5	63.5 / 66.5
Sound power leve						
(measured in ane		dB <a>	80.5 / 82.5	82.5 / 84.5	83.5 / 88.5	82.0 / 85.5
Refrigerant piping		mm (in.)	12.7 (1/2) Brazed	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	28.58 (1-1/8) Brazed
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Air flow rate	m³/min	270	270	305	365
		L/s	4,500	4,500	5,083	6,083
		cfm	9,534	9,534	10,770	12,888
	Control, Driving m		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
	Motor output	kW	0.46 x 2	0.46 x 2	0.46 x 2	0.92 x 2
*5	External static pr		0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type	000.	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
Compressor	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	9.8	10.9	12.4	13.3
	Case heater	kW	3.0	10.5	12.7	10.0
External finish	Oasc ricator	ICAA	Pre-coated galvanized steel sheets	Pre-coated galvanized steel sheets	Pre-coated galvanized steel sheets	Pre-coated galvanized steel sheets
LAIGITIAI IIIIISII			(+powder coating for -BS type)	(+powder coating for -BS type)	(+powder coating for -BS type)	(+powder coating for -BS type)
			<pre><munsell 1="" 5y="" 8="" or="" similar=""></munsell></pre>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>	<pre><munsell 1="" 5y="" 8="" or="" similar=""></munsell></pre>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>
External dimensio	n HvMvD		1,858 (1,798 without legs) x	1,858 (1,798 without legs) x	1,858 (1,798 without legs) x	1,858 (1,798 without legs) x
LAternal dimensio	JII I IAWAD	mm	1,240 x 740	1,240 x 740	1,240 x 740	1,750 x 740
			73-3/16 (70-13/16 without legs) x	73-3/16 (70-13/16 without legs) x	73-3/16 (70-13/16 without legs) x	73-3/16 (70-13/16 without legs) x
		in.	48-7/8 x 29-3/16	48-7/8 x 29-3/16	48-7/8 x 29-3/16	68-15/16 x 29-3/16
Protection	High pressure pre	otection	High pressure sensor, High pressure	High pressure sensor, High pressure	High pressure sensor, High pressure	High pressure sensor, High pressure
devices	nigii pressure pri	otection	switch at 4.15 MPa (601 psi)	switch at 4.15 MPa (601 psi)	switch at 4.15 MPa (601 psi)	switch at 4.15 MPa (601 psi)
	Inverter circuit		Over-heat protection,	Over-heat protection,	Over-heat protection,	Over-heat protection,
	(COMP./FAN)		Over-current protection	Over-current protection	Over-current protection	Over-current protection
	Compressor		-	-	-	-
	Fan motor		-	-	-	_
			R410A x 9.8 kg (22 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)
Refrigerant	Type x original ch	narde				
Refrigerant Net weight	Type x original ch			305 (673)	305 (673)	342 (754)
Net weight	Type x original ch	kg (lbs)	285 (629)	305 (673) Salt-resistant cross fin &	305 (673) Salt-resistant cross fin &	342 (754) Salt-resistant cross fin &
	Type x original ch			305 (673) Salt-resistant cross fin & aluminium tube	305 (673) Salt-resistant cross fin & aluminium tube	342 (754) Salt-resistant cross fin & aluminium tube

Notes:

*1,*2 Nominal conditions (subject to JIS B8615-2) + ErP Lot 21/6 calculation method to EN14825

_	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 Nominal heating conditions (subject to JIS B8615-2) Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)





Pipe lengui: 7.5 int (24-9/10 it.), Lever universities. O int (0 it.)

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4. Cooling mode / Heating mode

5. External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O).

Consult your dealer about the specification when setting External static pressure option.

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

PUHY-EP YSNW-A(-BS)



Specifications

Model			PUHY-EP400	YSNW-A (-BS)	PUHY-EP450	YSNW-A (-BS)	PUHY-EP500	YSNW-A (-BS)
Power source				400-415 V 50/60 Hz		-400-415 V 50/60 Hz		400-415 V 50/60 Hz
Cooling capacity	*1	kW	45	5.0	50	0.0	56	3.0
(Nominal)		BTU/h	153	,500	170),600	191	,100
,	Power input	kW	10	.53		2.07	13.89	
	EER	kW/kW	4.27		4.	.14		03
	EER (ErP)+	kW/kW	5.	44	5.	.17	4.	95
Temp. range of	Indoor	W.B.	15.0~24.0 °C (59~75 °F)			C (59~75 °F)		C (59~75 °F)
cooling	Outdoor	D.B.		(23~126 °F)		C (23~126 °F)		(23~126 °F)
Heating capacity	*2			0.0		6.0		3.0
(Max)	_	BTU/h		,600		,100		,000
(man)	Power input	kW		.06		2.64		.48
	COP	kW/kW	4.	* *		43		35
	COP (ErP) ⁺	kW/kW		39		.29		21
(Nomina				5.0		0.0		3.0
(140111110	,	BTU/h		,500		0,600		,100
	Power input	kW		99		.10		.42
	COP	kW/kW		63		.49		37
			J.	~~	J.		J.	·.
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.		C (-4~60 °F)		°C (-4~60 °F)		C (-4~60 °F)
Indoor unit	Total capacity	VV.D.		door unit capacity		door unit capacity		door unit capacity
connectable	Model / Quantity			250/1~34		250/1~39		250/1~43
Sound pressure le			F13-F2	.50/ 11-54	FIJ-FZ	230/11-39	F13-F2	.50/11-45
(measured in ane		dB <a>	61.0	/ 62.0	62.0	/ 63.0	63.0	/ 64.0
Sound power leve								
(measured in ane		dB <a>	78.0 / 81.0		80.0 / 82.0		81.0	/ 83.0
Refrigerant piping	011010100111	mm (in.)	10.7 /1/)\ Prozod	15.88(5/8) Brazed		15.88(5/8) Brazed	
diameter	Gas pipe	mm (in.)	12.7 (1/2) Brazed 28.58(1-1/8) Brazed		28.58(1-1/8) Brazed		28.58(1-1/8) Brazed	
Set Model	Gas pipe	111111 (111.)	20.30(1-1	76) Brazeu	20.30(1-1	70) Brazeu	20.30(1-1	70) DIAZEU
Model			DITHA EDSUUANIN V (BS)	DILLY EDONOVNIW A / RS)	DITHA EDSUUANM V (BS)	PUHY-EP250YNW-A (-BS)	DITHA EDSEUNIM V (BC)	DITHA EDSEUNIN V (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
1744	Air flow rate	m³/min	170	170	170	185	185	185
	/ III IIOW Tate	L/s	2,833	2,833	2,833	3,083	3,083	3,083
		cfm	6.003	6.003	6.003	6,532	6,532	6,532
	Control, Driving m			rect-driven by motor		rect-driven by motor		ect-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
*5	External static pr		0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0.52 x 1 0 Pa (0 mmH₂O)	0.92 x 1 0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type	033.		metic compressor		rmetic compressor		metic compressor
Compressor	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.6	5.6	5.6	7.0	7.0	7.0
	Case heater	kW	-	3.0		- 7.0	-	7.0
External finish	Oasc ricator	IVVV		nized steel sheets		nized steel sheets		nized steel sheets
LAGITIAI IIIISII				ng for -BS type)		ing for -BS type)		ng for -BS type)
				' 8/1 or similar>	<munsell 5y<="" td=""><td></td><td></td><td>' 8/1 or similar></td></munsell>			' 8/1 or similar>
External dimensio	n HyWyD			1,858 (1,798 without		1,858 (1,798 without		1,858 (1,798 without
External dimension	ATTIATTAD	mm	legs) x 920 x 740	legs) x 920 x 740	legs) x 920 x 740	legs) x 920 x 740	legs) x 920 x 740	legs) x 920 x 740
				73-3/16 (70-13/16 without		73-3/16 (70-13/16 without	73-3/16 (70-13/16 without	73-3/16 (70-13/16 without
		in.	legs) x 36-1/4 x 29-3/16		legs) x 36-1/4 x 29-3/16		legs) x 36-1/4 x 29-3/16	legs) x 36-1/4 x 29-3/16
	High pressure pr	otection		High pressure switch at		High pressure switch at		High pressure switch at
Protection	riigii pressure pr	olection		(601 psi)		a (601 psi)		(601 psi)
devices	Inverter circuit (CO	MP/FAN)		Over-current protection		Over-current protection		Over-current protection
	Compressor		-	-	-	_	-	-
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original ch	narge	R410A x 6.5 kg (15 lbs)	R410A x 6.5 kg (15 lbs)	R410A x 6.5 kg (15 lbs)	R410A x 6.5 kg (15 lbs)	R410A x 6.5 kg (15 lbs)	R410A x 6.5 kg (15 lbs)
Net weight	1. Jpo x ong.ilai oi	kg (lbs)	231 (510)	231 (510)	231 (510)	231 (510)	231 (510)	231 (510)
Heat exchanger		,g (103)		fin & aluminium tube		fin & aluminium tube		fin & aluminium tube
Pipe between unit	t Liquid nine	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
po potwoon unit			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	Gas nine	lmm /in \						
Ontional parts	Gas pipe	mm (in.)		22.2 (7/8) Brazed				
and distributor Optional parts	Gas pipe	mm (in.)	Outdoor Twinning I	kit: CMY-Y100VBK3 104/108/1010-G	Outdoor Twinning	kit: CMY-Y100VBK3 /104/108/1010-G	Outdoor Twinning I	kit: CMY-Y100VBK3 104/108/1010-G

Notes:

*1,*2 Nominal conditions (subject to JIS B8615-2) + ErP Lot 21/6 calculation method to EN14825

•	, , , , , , , ,				
	Indoor	Outdoor	Pipe length	Level difference	
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m (24-9/16ft.)	0m (0ft.)	
Cooling	(81°F DB/66°F WB)	(95°F DB/75°F WB)	7.511 (24-9/1010.)	on (or.)	
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 Nominal heating conditions (subject to JIS B8615-2) Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)





Eurovent registered

*4 Cooling mode / Heating mode

*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O).

Consult your dealer about the specification when setting External static pressure option. *Due to continuing improvement, above specification may be subject to change without notice

PUHY-EP YSNW-A(-BS)



Specifications

Model			PUHY-EP550	YSNW-A (-BS)	PUHY-EP600YSNW-A (-BS)		
Power source				-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity	*1	kW		3.0		9.0	
(Nominal)		BTU/h	215	,000	235	5,400	
	Power input	kW	16	.11	18	3.11	
	EER kW/k\		3.	91	3.81		
EER (ErP)+ kW/kW		kW/kW	4.	80	4.67		
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.		C (23~126 °F)		C (23~126 °F)	
Heating capacity	*2			9.0		6.5	
(Max)		BTU/h		,400		,000	
	Power input	kW		.31		3.47	
	COP	kW/kW		23	4.		
	COP (ErP)+	kW/kW		01		84	
(Nomin	al) *3	kW		3.0		9.0	
		BTU/h		,000		5,400	
	Power input	kW		.93		3.26	
	COP	kW/kW	5.	28	5.	.20	
	1			. (4-2		
Temp. range of	Indoor	D.B.		C (59~81 °F)		C (59~81 °F)	
heating	Outdoor	W.B.		°C (-4~60 °F)		°C (-4~60 °F)	
Indoor unit	Total capacity			door unit capacity		door unit capacity	
connectable	Model / Quantity		P15~P2	250/2~47	P15~P2	250/2~50	
Sound pressure (measured in and		dB <a>	63.5	/ 66.0	64.0 / 67.5		
Sound power lev							
(measured in an		dB <a>	82.0	/ 85.0	83.0	/ 86.5	
Refrigerant piping	3011010100111) +	mm (in.)	4F 00/F/	O) Drawad	15.88(5/8) Brazed		
diameter	Gas pipe	mm (in.)			28.58(1-1/8) Brazed		
Set Model	Gas pipe	1111111 (111.)	20.30(1-1	70) Brazed	20.30(1-1	70) Blazed	
Model			PUHY-EP250YNW-A (-BS)	PUHY-EP300YNW-A (-BS)	PUHY-EP300YNW-A (-BS)	PUHY-EP300YNW-A (-BS)	
FAN	Type x Quantity		Propeller fan x 1				
	Air flow rate	m³/min	185	240	240	240	
		L/s	3,083	4,000	4,000	4,000	
		cfm	6,532	8,474	8,474	8,474	
	Control, Driving m	echanism	Inverter-control, Di	rect-driven by motor	Inverter-control, Di	rect-driven by motor	
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	
*	5 External static pr	ess.	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	
Compressor	Туре		Inverter scroll her	metic compressor	Inverter scroll her	rmetic compressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	7.0	7.9	7.9	7.9	
	Case heater	kW	-	-	-	-	
External finish				nized steel sheets		nized steel sheets	
				ng for -BS type)		ing for -BS type)	
External dimensi	an Halland			/ 8/1 or similar>		Y 8/1 or similar>	
External dimensi	on HXVVXD	mm	1,858 (1,798 without legs) x 920 x 740				
		in.	73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16				
Protection	High pressure pr	otection	High pressure sensor, High pres	sure switch at 4.15 MPa (601 psi)	High pressure sensor, High pres	sure 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		-	-	-	-	
	Fan motor		-	-	-	-	
Refrigerant	Type x original cl		R410A x 6.5 kg (15 lbs)				
Net weight		kg (lbs)	231 (510)	235 (519)	235 (519)	235 (519)	
Heat exchanger				fin & aluminium tube		fin & aluminium tube	
Dine between up	it I I invited minor	mm (in)	0 E2/2/9\ Prozod	12.7 (1/2) Prozed	12.7 (1/2) Prozed	12 7/1/2\ Prozed	

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

Notes:

Pipe between unit Liquid pipe

Gas pipe

and distributor

Optional parts

*1.*2 Nominal conditions (subject to JIS B8615-2) + ErP Lot 21/6 calculation method to EN14825

٠,		()			
		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.)

Outdoor Twinning kit: CMY-Y100VBK3 Header: CMY-Y104/108/1010-G

9.52(3/8) Brazed

22.2(7/8) Brazed

*3 Nominal heating conditions (subject to JIS B8615-2) Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

mm (in.)

mm (in.)



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

12.7 (1/2) Brazed

28.58 (1-1/8) Brazed 28.58 (1-1/8)
Outdoor Twinning kit: CMY-Y100VBK3
Header: CMY-Y104/108/1010-G



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

Eurovent registered

*4 Cooling mode / Heating mode

*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O).

Consult your dealer about the specification when setting External static pressure option.

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

PUHY-EP YSNW-A(-BS)



Specifications

Model			PHILIX EDGGSVONIM A / PO	DINIVERTORYONIA (DO)
			PUHY-EP650YSNW-A (-BS)	PUHY-EP700YSNW-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)		BTU/h	249,100	273,000
	Power input	kW	19.46	21.44
		kW/kW	3.75	3.73
		kW/kW	4.47	4.44
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
(Max)		BTU/h	278,100	300,300
	Power input	kW	20.58	23.15
	COP	kW/kW	3.96	3.80
	COP (ErP)+	kW/kW	4.41	4.43
(Nomin	al) *3 I	kW	73.0	80.0
		BTU/h	249,100	273,000
	Power input	kW	15.08	17.02
	COP	kW/kW	4.84	4.70
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 (measured in and		dB <a>	66.5 / 67.0	65.0 / 66.5
Sound power lev (measured in and		dB <a>	84.0 / 86.0	83.5 / 85.5
Refrigerant pipin	g Liquid pipe	mm (in.)	15.88(5/8) Brazed	19.05 (3/4) Brazed
diameter	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed
Set Model				· · · · · · · · · · · · · · · · · · ·

Set Model							
Model			PUHY-EP250YNW-A (-BS)	PUHY-EP400YNW-A (-BS)	PUHY-EP350YNW-A (-BS)	PUHY-EP350YNW-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	185	270	270	270	
		L/s	3,083	4,500	4,500	4,500	
		cfm	6,532	9,534	9,534	9,534	
Control, Driving mechanism Motor output kW		Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor		
		kW	0.92 x 1	0.46 x 2	0.46 x 2	0.46 x 2	
*!	5 External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	
Compressor	Туре		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	7.0	10.9	9.8	9.8	
	Case heater kW		-	-	-	-	
External finish				nized steel sheets	Pre-coated galvanized steel sheets		
				ng for -BS type)	(+powder coating for -BS type)		
				′ 8/1 or similar>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>		
External dimension	on HxWxD	mm	1,858 (1,798 without legs) x	1,858 (1,798 without legs) x	1,858 (1,798 without legs) x	1,858 (1,798 without legs) x	
			920 x 740	1,240 x 740	1,240 x 740	1,240 x 740	
		in.			73-3/16 (70-13/16 without legs) x		
			36-1/4 x 29-3/16	48-7/8 x 29-3/16	48-7/8 x 29-3/16	48-7/8 x 29-3/16	
Protection	High pressure pr		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 (CC	MP./FAN)	Over-heat protection, (Over-current protection	Over-heat protection, 0	Over-current protection	
	Compressor		-	-	-	-	
	Fan motor		-	-	-	-	
Refrigerant	Type x original c	harge	R410A x 6.5 kg (15 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 9.8 kg (22 lbs)	R410A x 9.8 kg (22 lbs)	
Net weight		kg (lbs)	231 (510)	305 (673)	285 (629)	285 (629)	
Heat exchanger			Salt-resistant cross	fin & aluminium tube	Salt-resistant cross	fin & aluminium tube	
Pipe between un	it Liquid pipe	mm (in.)	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	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	
Optional parts			Outdoor Twinning I	kit: CMY-Y100VBK3	Outdoor Twinning I	kit: CMY-Y200VBK2	
			Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-G	

Notes:

*1,*2 Nominal conditions (subject to JIS B8615-2) + ErP Lot 21/6 calculation method to EN14825

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m (24-9/16ft.)	0m (0ft.)
Cooling	(81°F DB/66°F WB)	(95°F DB/75°F WB)	7.5111 (24-9/1011.)	OIII (OIL.)
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 Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
Eurovent registered

*4 Cooling mode / Heating mode

*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmHzO, 6.1 mmHzO, 8.2 mmHzO).
Consult your dealer about the specification when setting External static pressure option.

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





PUHY-EP YSNW-A(-BS)



Specifications

Model			PUHY-EP750\	YSNW-A (-BS)	PUHY-EP800`	YSNW-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	5.0	90	0.0	
(Nominal)		BTU/h	290,	,000	307	,100	
	Power input	kW	23.	.28	24.	.59	
	EER	kW/kW	3.0		3.0	66	
	EER (ErP) ⁺	kW/kW	4.3	30	4.4	40	
emp. range of	Indoor	W.B.	15.0~24.0 °C		15.0~24.0 °C	C (59~75 °F)	
ooling	Outdoor	D.B.	-5.0~52.0 °C	(23~126 °F)	-5.0~52.0 °C	(23~126 °F)	
leating capacity	*2	kW	95	5.0	10	0.0	
Max)		BTU/h	324,	,100	341	,200	
	Power input	kW	25.	.33	27.	.10	
	COP	kW/kW	3.7	75	3.0	69	
	COP (ErP) ⁺	kW/kW	4.:	15	4.29		
(Nomina	ıl) *3	kW	85	5.0	90.0		
l'		BTU/h	290,000		307,100		
	Power input	kW	18.	.47	19	.27	
	COP	kW/kW	4.0	60	4.	67	
emp. range of	Indoor	D.B.	15.0~27.0 °C	C (59~81 °F)	15.0~27.0 °C	C (59~81 °F)	
eating	Outdoor	W.B.	-20.0~15.5 °	C (-4~60 °F)	-20.0~15.5 °	C (-4~60 °F)	
door unit	Total capacity		50~130% of outd	loor unit capacity	50~130% of outo	door unit capacity	
onnectable	Model / Quantity		P15~P2	50/2~50	P15~P2	50/2~50	
Sound pressure le		dB <a>	67.0	167.5	67.5	/ 70.5	
measured in ane	choic room) *4	ub \A>	67.07	07.5	07.57	7 70.5	
Sound power leve		dB <a>	84.5	1 96 E	05.5	/ 89.5	
measured in ane	choic room) *4	ub \A>	64.57	60.5	65.57	7 69.5	
Refrigerant piping	Liquid pipe	mm (in.)	19.05 (3/4	4) Brazed	19.05 (3/4	4) Brazed	
iameter	Gas pipe	mm (in.)	34.93 (1-3	/8) Brazed	34.93 (1-3	/8) Brazed	
et Model							
/lodel			PUHY-EP350YNW-A (-BS)	PUHY-EP400YNW-A (-BS)	PUHY-EP350YNW-A (-BS)	PUHY-EP450YNW-A (-E	
AN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	
	Air flow rate	m³/min	270	270	270	305	
	1	1.7-	4.500	4.500	4.500	E 000	

Set Model							
Model			PUHY-EP350YNW-A (-BS)	PUHY-EP400YNW-A (-BS)	PUHY-EP350YNW-A (-BS)	PUHY-EP450YNW-A (-BS)	
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	
	Air flow rate	m³/min	270	270	270	305	
		L/s	4,500	4,500	4,500	5,083	
	Control, Driving mechanism		9,534	9,534	9,534	10,770	
			Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	rect-driven by motor	
	Motor output	kW	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2	
*!	External static p	ress.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	
Compressor	Туре		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	9.8	10.9	9.8	12.4	
	Case heater kW		-	-	-	-	
External finish			Pre-coated galvar		Pre-coated galvanized steel sheets		
			(+powder coatii		(+powder coating for -BS type)		
				′ 8/1 or similar>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>		
External dimension	on HxWxD	mm	1,858 (1,798 without legs) x	1,858 (1,798 without legs) x	1,858 (1,798 without legs) x	1,858 (1,798 without legs) x	
			1,240 x 740	1,240 x 740	1,240 x 740	1,240 x 740	
		in.		73-3/16 (70-13/16 without legs) x			
			48-7/8 x 29-3/16	48-7/8 x 29-3/16	48-7/8 x 29-3/16	48-7/8 x 29-3/16	
Protection	High pressure p				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
devices	Inverter circuit (CC	OMP./FAN)	Over-heat protection, 0	Over-current protection	Over-heat protection,	Over-current protection	
	Compressor		-	-	-	-	
	Fan motor		-	-	-	-	
Refrigerant	Type x original of	charge	R410A x 9.8 kg (22 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 9.8 kg (22 lbs)	R410A x 10.8 kg (24 lbs)	
Net weight		kg (lbs)	285 (629)	305 (673)	285 (629)	305 (673)	
Heat exchanger			Salt-resistant cross	fin & aluminium tube	Salt-resistant cross	fin & aluminium tube	
Pipe between uni	t Liquid pipe	mm (in.)	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	
Optional parts			Outdoor Twinning k	kit: CMY-Y200VBK2	Outdoor Twinning I	kit: CMY-Y200VBK2	
			Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-G	

Notes:

*1,*2 Nominal conditions (subject to JIS B8615-2) + ErP Lot 21/6 calculation method to EN14825

	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 Nominal heating conditions (subject to JIS B8615-2) Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B.66 °CW.B. (45 °FD.B./43 °FW.B.)

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

Eurovent registered

*4 Cooling mode / Heating mode

*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O).

Consult your dealer about the specification when setting External static pressure option.

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





PUHY-EP YSNW-A(-BS)



Specifications

Model				PUHY-EP850`	/SNW-A (-RS)	PUHY-EP900\	/SNW-A (-RS)	
Power sou	ırce			V	400-415 V 50/60 Hz	3-phase 4-wire 380-		
Cooling ca		*1	kW	3-priase 4-wire 360-			1.0	
(Nominal)		'	BTU/h	327		344.		
(INOITHITIAL)		Power input	kW		74	27.		
		EER	kW/kW	3.		3.		
		EER (ErP)*	kW/kW	4.:		4.3	T	
Temp. rang	ne of	Indoor	W.B.	15.0~24.0 °C		15.0~24.0 °C		
cooling	go 01	Outdoor	D.B.	-5.0~52.0 °C		-5.0~52.0 °C		
Heating ca	anacity	*2			8.0	113		
(Max)	apaony	-	BTU/h		500	385.		
(IVIGA)		Power input	kW	29		31.		
		COP	kW/kW	3.0		3.6		
		COP (ErP)+	kW/kW	4.		4.		
(Nominal		kW	96		10		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,	BTU/h	327		344.		
İ		Power input	kW	20		21.		
		COP	kW/kW	4.		4.0		
Temp. rang	ge of	Indoor	D.B.	15.0~27.0 °C		15.0~27.0 °C		
heating		Outdoor	W.B.	-20.0~15.5 °		-20.0~15.5 °		
Indoor unit	1 7			50~130% of outo		50~130% of outd		
	connectable Model / Quantity			P15~P2	50/2~50	P15~P2	50/2~50	
Sound pre			dB <a>	68.5	71.0	68.5	725	
		choic room) *4	ub 40	00.07	71.0	00.07	72.0	
Sound pov			dB <a>	> 86.0 / 90.0		86.5 / 91.5		
			_	19.05 (3/4	1) Dropped	19.05 (3/4	1) Dd	
diameter	it pipirig	Liquid pipe	mm (in.)	41.28 (1-5		41.28 (1-5		
Set Model		Gas pipe	mm (in.)	41.26 (1-5	(o) Brazed	41.26 (1-5	/o) brazed	
Model	1			PUHY-EP400YNW-A (-BS)	PUHY-EP450YNW-A (-BS)	DI II D. ED (ED) (A DA)	DI II IV ED 450\(A) IV 4 (D0)	
FAN		Type v Quantity				Propeller fan x 2	Propeller fan x 2	
FAN		Type x Quantity	m³/min	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	
FAN		Type x Quantity Air flow rate	m³/min	Propeller fan x 2 270	Propeller fan x 2 305	Propeller fan x 2 305	Propeller fan x 2 305	
FAN			L/s	Propeller fan x 2 270 4,500	Propeller fan x 2 305 5,083	Propeller fan x 2 305 5,083	Propeller fan x 2 305 5,083	
FAN		Air flow rate	L/s cfm	Propeller fan x 2 270 4,500 9,534	Propeller fan x 2 305 5,083 10,770	Propeller fan x 2 305 5,083 10,770	Propeller fan x 2 305 5,083 10,770	
FAN		Air flow rate Control, Driving m	L/s cfm echanism	Propeller fan x 2 270 4,500 9,534 Inverter-control, Dir	Propeller fan x 2 305 5,083 10,770 ect-driven by motor	Propeller fan x 2 305 5,083 10,770 Inverter-control, Dir	Propeller fan x 2 305 5,083 10,770 ect-driven by motor	
FAN	*5	Air flow rate Control, Driving m Motor output	L/s cfm echanism kW	Propeller fan x 2 270 4,500 9,534 Inverter-control, Dir 0.46 x 2	Propeller fan x 2 305 5,083 10,770 ect-driven by motor 0.46 x 2	Propeller fan x 2 305 5,083 10,770 Inverter-control, Dir	Propeller fan x 2 305 5,083 10,770 ect-driven by motor 0.46 x 2	
		Air flow rate Control, Driving m Motor output External static pro	L/s cfm echanism kW	Propeller fan x 2 270 4,500 9,534 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O)	Propeller fan x 2 305 5,083 10,770 ect-driven by motor 0.46 x 2 0 Pa (0 mmH ₂ O)	Propeller fan x 2 305 5,083 10,770 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O)	Propeller fan x 2 305 5,083 10,770 ect-driven by motor 0.46 x 2 0 Pa (0 mmH ₂ O)	
Compress		Air flow rate Control, Driving m Motor output External static pro	L/s cfm echanism kW	Propeller fan x 2 270 4,500 9,534 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter scroll her	Propeller fan x 2 305 5,083 10,770 ect-driven by motor 0.46 x 2 0 Pa (0 mmH ₂ O) metic compressor	Propeller fan x 2 305 5,083 10,770 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter scroll her	Propeller fan x 2 305 5,083 10,770 ect-driven by motor 0.46 x 2 0 Pa (0 mmH ₂ O) metic compressor	
		Air flow rate Control, Driving m Motor output External static pro Type Starting method	L/s cfm echanism kW ess.	Propeller fan x 2 270 4,500 9,534 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter scroll her Inverter	Propeller fan x 2 305 5,083 10,770 ect-driven by motor 0.46 x 2 0 Pa (0 mmH ₂ O) metic compressor Inverter	Propeller fan x 2 305 5,083 10,770 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter scroll her Inverter	Propeller fan x 2 305 5,083 10,770 ect-driven by motor 0.46 x 2 0 Pa (0 mmH ₂ O) metic compressor Inverter	
		Air flow rate Control, Driving m Motor output External static pr Type Starting method Motor output	L/s cfm echanism kW ess.	Propeller fan x 2 270 4,500 9,534 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter scroll her	Propeller fan x 2 305 5,083 10,770 ect-driven by motor 0.46 x 2 0 Pa (0 mmH ₂ O) metic compressor	Propeller fan x 2 305 5,083 10,770 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter scroll her	Propeller fan x 2 305 5,083 10,770 ect-driven by motor 0.46 x 2 0 Pa (0 mmH ₂ O) metic compressor Inverter 12.4	
Compress	sor	Air flow rate Control, Driving m Motor output External static pro Type Starting method	L/s cfm echanism kW ess.	Propeller fan x 2 270 4,500 9,534 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter scroll her Inverter 10.9	Propeller fan x 2 305 5,083 10,770 ect-driven by motor 0.46 x 2 0 Pa (0 mmH ₂ O) metic compressor Inverter 12.4	Propeller fan x 2 305 5,083 10,770 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter scroll her Inverter	Propeller fan x 2 305 5,083 10,770 ect-driven by motor 0.46 x 2 0 Pa (0 mmH ₂ O) metic compressor Inverter 12.4	
	sor	Air flow rate Control, Driving m Motor output External static pr Type Starting method Motor output	L/s cfm echanism kW ess.	Propeller fan x 2 270 4,500 9,534 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter scroll her Inverter	Propeller fan x 2	Propeller fan x 2 305 5,083 10,770 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter scroll her Inverter	Propeller fan x 2	
Compress:	nish	Air flow rate Control, Driving m Motor output External static pri Type Starting method Motor output Case heater	L/s cfm echanism kW ess.	Propeller fan x 2 270 4,500 9,534 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter scroll her Inverter 10.9 - Pre-coated galvat (+powder coatil	Propeller fan x 2	Propeller fan x 2 305 5,083 10,770 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter scroll her Inverter 12.4 - Pre-coated galvar (+powder coatir	Propeller fan x 2	
Compress	nish	Air flow rate Control, Driving m Motor output External static pri Type Starting method Motor output Case heater	L/s cfm echanism kW ess.	Propeller fan x 2 270 4,500 9,534 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter scroll her Inverter 10.9	Propeller fan x 2 305 5,083 10,770 ect-driven by motor 0.46 x 2 0 Pa (0 mmH ₂ O) metic compressor Inverter 12.4 - nized steel sheets 12 for -BS type) 8/1 or similar- 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x	Propeller fan x 2 305 5,083 10,770 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter scroll her Inverter 12.4 - Pre-coated galvar (+powder coatir <munsell (1,798="" 1,858="" 5y="" legs)="" td="" without="" x<=""><td>Propeller fan x 2</td></munsell>	Propeller fan x 2	
Compresson	nish	Air flow rate Control, Driving m Motor output External static pri Type Starting method Motor output Case heater	L/s cfm echanism kW ess. kW mm in.	Propeller fan x 2 270 4,500 9,534 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter scroll her Inverter 10.9 - Pre-coated galvar (+powder coatir <munsell (1,798="" (70-13="" 1,240="" 1,858="" 16="" 16<="" 29-3="" 48-7="" 5v="" 73-3="" 740="" 8="" legs)="" td="" without="" x=""><td>Propeller fan x 2 305 5,083 10,770 ect-driven by motor 0.46 x 2 0 Pa (0 mmH₂O) metic compressor Inverter 12.4 nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 1,240 x 740</td><td>Propeller fan x 2 305 5,083 10,770 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH₂O) Inverter scroll her Inverter 12.4 - Pre-coated galvar (+powder coatir -MUNSELL 5Y 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16</td><td>Propeller fan x 2 305 5,083 10,770 ect-driven by motor 0,46 x 2 0 Pa (0 mmH₂O) metic compressor Inverter 12.4 - nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16</td></munsell>	Propeller fan x 2 305 5,083 10,770 ect-driven by motor 0.46 x 2 0 Pa (0 mmH ₂ O) metic compressor Inverter 12.4 nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 1,240 x 740	Propeller fan x 2 305 5,083 10,770 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter scroll her Inverter 12.4 - Pre-coated galvar (+powder coatir -MUNSELL 5Y 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	Propeller fan x 2 305 5,083 10,770 ect-driven by motor 0,46 x 2 0 Pa (0 mmH ₂ O) metic compressor Inverter 12.4 - nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	
Compress External fii	nish	Air flow rate Control, Driving m Motor output External static pri Type Starting method Motor output Case heater	L/s cfm echanism kW ess. kW kW in.	Propeller fan x 2 270 4,500 9,534 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter scroll her Inverter 10.9	Propeller fan x 2 305 5,083 10,770 ect-driven by motor 0,46 x 2 0 Pa (0 mmH ₂ O) metic compressor Inverter 12.4 nized steel sheets 12 for -85 type) 8/1 or similar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	Propeller fan x 2 305 5,083 10,770 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter scroll her Inverter 12.4 - Pre-coated galvar (+powder coatir -MUNSELL 5Y 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	Propeller fan x 2 305 5,083 10,770 ect-driven by motor 0.46 x 2 0 Pa (0 mmH ₂ O) metic compressor Inverter 12.4 nized steel sheets ng for -BS type) '8/1 or similar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 sure switch at 4.15 MPa (601 psi)	
Compress External fii External dii	nish	Air flow rate Control, Driving m Motor output External static pro Type Starting method Motor output Case heater HxWxD High pressure pro Inverter circuit (CO Compressor	L/s cfm echanism kW ess. kW kW in.	Propeller fan x 2 270 4,500 9,534 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter scroll her Inverter 10.9	Propeller fan x 2 305 5,083 10,770 ect-driven by motor 0.46 x 2 0 Pa (0 mmH ₂ O) metic compressor Inverter 12.4	Propeller fan x 2 305 5,083 10,770 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter scroll her Inverter 12.4	Propeller fan x 2 305 5,083 10,770 ect-driven by motor 0.46 x 2 0 Pa (0 mmH ₂ O) metic compressor Inverter 12.4 nized steel sheets ng for -BS type) '8/1 or similar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 sure switch at 4.15 MPa (601 psi)	
Compress External fin External din	nish	Air flow rate Control, Driving m Motor output External static pr Type Starting method Motor output Case heater HxWxD High pressure pre Inverter circuit (CO	L/s cfm echanism kW ess. kW kW in.	Propeller fan x 2 270 4,500 9,534 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter scroll her Inverter 10.9	Propeller fan x 2 305 5,083 10,770 ect-driven by motor 0.46 x 2 0 Pa (0 mmH ₂ O) metic compressor Inverter 12.4	Propeller fan x 2 305 5,083 10,770 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter scroll her Inverter 12.4	Propeller fan x 2 305 5,083 10,770 ect-driven by motor 0.46 x 2 0 Pa (0 mmH ₂ O) metic compressor Inverter 12.4 nized steel sheets ng for -BS type) '8/1 or similar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 sure switch at 4.15 MPa (601 psi)	
Compress External fin External din	or nish imension	Air flow rate Control, Driving m Motor output External static pro Type Starting method Motor output Case heater HxWxD High pressure pro Inverter circuit (CO Compressor	L/s cfm chanism kW ess. kW kW in. otection MP/FAN)	Propeller fan x 2 270 4,500 9,534 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter scroll her Inverter 10.9	Propeller fan x 2	Propeller fan x 2 305 5,083 10,770 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter scroll her Inverter 12.4 - Pre-coated galvar (+powder coatir <munsell (1,798="" (70-13="" (<="" 1,240="" 1,858="" 16="" 29-3="" 48-7="" 5y="" 73-3="" 740="" 8="" high="" legs)="" over-heat="" press="" pressure="" protection,="" sensor,="" td="" without="" x=""><td>Propeller fan x 2 305 5,083 10,770 ect-driven by motor 0.46 x 2 0 Pa (0 mmH₂O) metic compressor Inverter 12.4 - nized steel sheets ng for -BS type) 8/1 or similar- 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 sure switch at 4.15 MPa (601 psi) Over-current protection</td></munsell>	Propeller fan x 2 305 5,083 10,770 ect-driven by motor 0.46 x 2 0 Pa (0 mmH ₂ O) metic compressor Inverter 12.4 - nized steel sheets ng for -BS type) 8/1 or similar- 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 sure switch at 4.15 MPa (601 psi) Over-current protection	
External fin External din Protection devices Refrigeran Net weight	or inish imension	Air flow rate Control, Driving m Motor output External static processor Starting method Motor output Case heater HxWxD High pressure processor Fan motor	L/s cfm chanism kW ess. kW kW in. otection MP/FAN)	Propeller fan x 2 270 4,500 9,534 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter scroll her Inverter 10.9	Propeller fan x 2 305 5,083 10,770 ect-driven by motor 0.46 x 2 0 Pa (0 mmH ₂ O) metic compressor Inverter 12.4 - nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 sure switch at 4.15 MPa (601 psi) Diver-current protection - R410A x 10.8 kg (24 lbs) 305 (673)	Propeller fan x 2 305 5,083 10,770 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter scroll her Inverter 12.4	Propeller fan x 2 305 5,083 10,770 ect-driven by motor 0.46 x 2 0 Pa (0 mmH ₂ O) metic compressor Inverter 12.4 - nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 sure switch at 4.15 MPa (601 psi) Over-current protection - R410A x 10.8 kg (24 lbs) 305 (673)	
External dii External dii Protection devices Refrigeran Net weigh! Heat exch	nish imension t t anger	Air flow rate Control, Driving m Motor output External static pro Type Starting method Motor output Case heater High pressure pro Inverter circuit (CO Compressor Fan motor Type x original ch	L/s cfm echanism kW ess. kW kW in. otection MP/FAN)	Propeller fan x 2 270 4,500 9,534 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter scroll her Inverter 10.9	Propeller fan x 2 305 5,083 10,770 ect-driven by motor 0.46 x 2 0 Pa (0 mmH ₂ O) metic compressor Inverter 12.4 - nized steel sheets ig for -BS type) 8/1 or similar- 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 sure switch at 4.15 MPa (601 psi) over-current protection - R410A x 10.8 kg (24 lbs) 305 (673) fin & aluminium tube	Propeller fan x 2 305 5,083 10,770 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter scroll her Inverter 12.4	Propeller fan x 2	
External file External dile Protection devices Refrigeran Net weight Heat exchi	nish imension t t ianger een unit	Air flow rate Control, Driving m Motor output External static processor Starting method Motor output Case heater HxWxD High pressure processor Inverter circuit (CO Compressor Fan motor Type x original ch	L/s cfm echanism kW ess. kW kW in. otection MP/FAN)	Propeller fan x 2 270 4,500 9,534 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter scroll her Inverter 10.9 - Pre-coated galvar (+powder coatir <munsell (="" (1,798="" (24="" (5="" (673)="" (70-13="" -="" 1,240="" 1,858="" 10.8="" 15.88="" 16="" 29-3="" 305="" 48-7="" 5y="" 73-3="" 740="" 8="" 8)="" brazed<="" cross="" high="" kg="" lbs)="" legs)="" over-heat="" press="" pressure="" protection,="" r410a="" salt-resistant="" sensor,="" td="" without="" x=""><td>Propeller fan x 2 305 5,083 10,770 ect-driven by motor 0.46 x 2 0 Pa (0 mmH₂O) metic compressor Inverter 12.4 - nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 sure switch at 4.15 MPa (601 psi) Diver-current protection - R410A x 10.8 kg (24 lbs) 305 (673)</td><td>Propeller fan x 2 305 5,083 10,770 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH₂O) Inverter scroll her Inverter 12.4 </td><td>Propeller fan x 2</td></munsell>	Propeller fan x 2 305 5,083 10,770 ect-driven by motor 0.46 x 2 0 Pa (0 mmH ₂ O) metic compressor Inverter 12.4 - nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 sure switch at 4.15 MPa (601 psi) Diver-current protection - R410A x 10.8 kg (24 lbs) 305 (673)	Propeller fan x 2 305 5,083 10,770 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter scroll her Inverter 12.4	Propeller fan x 2	
External dii External dii Protection devices Refrigeran Net weigh! Heat exch	nish imension t t ianger een unit	Air flow rate Control, Driving m Motor output External static pro Type Starting method Motor output Case heater High pressure pro Inverter circuit (CO Compressor Fan motor Type x original ch	L/s cfm echanism kW ess. kW kW in. otection MP/FAN)	Propeller fan x 2 270 4,500 9,534 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter scroll her Inverter 10.9	Propeller fan x 2	Propeller fan x 2 305 5,083 10,770 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmHzO) Inverter scroll her Inverter 12.4	Propeller fan x 2	
External file External dile Protection devices Refrigeran Net weight Heat exchi	inish imension t t t t anger een unit	Air flow rate Control, Driving m Motor output External static processor Starting method Motor output Case heater HxWxD High pressure processor Inverter circuit (CO Compressor Fan motor Type x original ch	L/s cfm echanism kW ess. kW kW in. otection MP/FAN) marge kg (lbs)	Propeller fan x 2 270 4,500 9,534 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter scroll her Inverter 10.9	Propeller fan x 2 305 5,083 10,770 ect-driven by motor 0.46 x 2 0 Pa (0 mmH ₂ O) metic compressor Inverter 12.4 nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 sure switch at 4.15 MPa (601 psi) over-current protection R410A x 10.8 kg (24 lbs) 305 (673) fin & aluminium tube 15.88 (5/8) Brazed	Propeller fan x 2 305 5,083 10,770 Inverter-control, Dir 0.46 x 2 0 Pa (0 mmH ₂ O) Inverter scroll her Inverter 12.4	Propeller fan x 2	

Notes:

*1,*2 Nominal conditions (subject to JIS B8615-2) + ErP Lot 21/6 calculation method to EN14825

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

Header: CMY-Y104/108/1010-G

*3 Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B.66 °CW.B. (45 °FD.B./43 °FW.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
Eurovent registered
*4 Cooling mode / Heating mode
*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O).
Consult your dealer about the specification when setting External static pressure option.
*Due to continuing improvement, above specification may be subject to change without notice.



Header: CMY-Y104/108/1010-G



PUHY-EP YSNW-A(-BS)



Specifications

Model			PU	HY-EP950YSNW-A (-I	BS)	PU	HY-EP1000YSNW-A (-	·BS)
Power source				4-wire 380-400-415 V			4-wire 380-400-415 V	
Cooling capacity	*1	kW		108.0			113.0	
(Nominal)		BTU/h		368,500			385,600	
	Power input	kW		28.34			30.21	
	EER	kW/kW		3.81			3.74	
	EER (ErP)*	kW/kW		4.57			4.46	
Temp. range of	Indoor	W.B.		5.0~24.0 °C (59~75 °F		1	5.0~24.0 °C (59~75 °F	-)
cooling	Outdoor	D.B.		5.0~52.0 °C (23~126 °I	F)	-	5.0~52.0 °C (23~126 °l	F)
Heating capacity	*2	kW		119.5			127.0	
(Max)		BTU/h		407,700			433,300	
	Power input	kW		30.32			32.56	
	COP	kW/kW		3.94			3.90	
	COP (ErP) ⁺	kW/kW		4.63			4.42	
(Nomina	ıl) *3	kW		108.0			113.0	
,		BTU/h		368,500			385,600	
	Power input	kW		22.13			23.59	
	COP	kW/kW		4.88			4.79	
Temp. range of	Indoor	D.B.	1	5.0~27.0 °C (59~81 °F	-)	1	5.0~27.0 °C (59~81 °F	-)
heating	Outdoor	W.B.		20.0~15.5 °C (-4~60 °F	=)	-	20.0~15.5 °C (-4~60 °F	=)
Indoor unit Total capacity			50~1	30% of outdoor unit ca	pacity	50~1	30% of outdoor unit ca	pacity
connectable Model / Quantity				P15~P250/2~50			P15~P250/2~50	
Sound pressure le	evel	-ID -445		00 0 107 5			00.0.1.00.5	
(measured in ane	choic room) *4	dB <a>		66.0 / 67.5			68.0 / 68.5	
Sound power leve	el	4D - 4>		04 5 / 06 5		05.5 / 07.5		
(measured in ane	choic room) *4	dB <a>	84.5 / 86.5		85.5 / 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-EP250YNW-A (-BS)	PUHY-EP350YNW-A (-BS)	PUHY-EP350YNW-A (-BS)	PUHY-EP250YNW-A (-BS)	PUHY-EP350YNW-A (-BS)	PUHY-EP400YNW-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	185	270	270	185	270	270
		L/s	3,083	4,500	4,500	3,083	4,500	4,500
		cfm	6,532	9,534	9,534	6,532	9,534	9,534
	Control, Driving m		Inverter	-control, Direct-driven I			-control, Direct-driven I	by motor
	Motor output	kW	0.92 x 1	0.46 x 2	0.46 x 2	0.92 x 1	0.46 x 2	0.46 x 2
*5	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	Туре		Inverte	er scroll hermetic comp	ressor	Invert	er scroll hermetic comp	ressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	7.0	9.8	9.8	7.0	9.8	10.9
	Case heater	kW	-	-	-	-	-	-
External finish			Pre-co	ated galvanized steel	sheets	Pre-co	pated galvanized steel	sheets
				owder coating for -BS t		(+powder coating for -BS type)		
			<mi< td=""><td>UNSELL 5Y 8/1 or simi</td><td>ilar></td><td><m< td=""><td>UNSELL 5Y 8/1 or sim</td><td>ilar></td></m<></td></mi<>	UNSELL 5Y 8/1 or simi	ilar>	<m< td=""><td>UNSELL 5Y 8/1 or sim</td><td>ilar></td></m<>	UNSELL 5Y 8/1 or sim	ilar>
External dimension	n HxWxD	mm	1,858 (1,798 without	1,858 (1,798 without	1,858 (1,798 without	1,858 (1,798 without	1,858 (1,798 without	1,858 (1,798 without
		111111	legs) x 920 x 740	legs) x 1,240 x 740	legs) x 1,240 x 740	legs) x 920 x 740	legs) x 1,240 x 740	legs) x 1,240 x 740
		in.	73-3/16 (70-13/16 without	73-3/16 (70-13/16 without	73-3/16 (70-13/16 without	73-3/16 (70-13/16 without	73-3/16 (70-13/16 without	73-3/16 (70-13/16 without
		111.	legs) x 36-1/4 x 29-3/16	legs) x 48-7/8 x 29-3/16	legs) x 48-7/8 x 29-3/16	legs) x 36-1/4 x 29-3/16	legs) x 48-7/8 x 29-3/16	legs) x 48-7/8 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)
devices	Inverter circuit (CO	MP./FAN)	Over-heat	protection, Over-currer	t protection	Over-heat	protection, Over-currer	nt protection
	Compressor		-	-	-	-	-	-
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original ch		R410A x 6.5 kg (15 lbs)		R410A x 9.8 kg (22 lbs)			R410A x 10.8 kg (24 lbs)
Net weight		kg (lbs)	231 (510)	285 (629)	285 (629)	231 (510)	285 (629)	305 (673)
			0 11 .	stant cross fin & alumir	nium tube	Salt-resi	stant cross fin & alumir	nium tube
Heat exchanger								
Heat exchanger Pipe between unit		mm (in.)	9.52 (3/8) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	9.52 (3/8) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed
Heat exchanger Pipe between unit and distributor	Liquid pipe Gas pipe	mm (in.) mm (in.)	9.52 (3/8) Brazed 22.2 (7/8) Brazed	12.7 (1/2) Brazed 28.58 (1-1/8) Brazed	12.7 (1/2) Brazed 28.58 (1-1/8) Brazed	9.52 (3/8) Brazed 22.2 (7/8) Brazed	12.7 (1/2) Brazed 28.58 (1-1/8) Brazed	15.88 (5/8) Brazed 28.58 (1-1/8) Brazed
Heat exchanger Pipe between unit			9.52 (3/8) Brazed 22.2 (7/8) Brazed Outdoo	12.7 (1/2) Brazed 28.58 (1-1/8) Brazed Twinning kit: CMY-Y3	12.7 (1/2) Brazed 28.58 (1-1/8) Brazed 00VBK3	9.52 (3/8) Brazed 22.2 (7/8) Brazed Outdoo	12.7 (1/2) Brazed 28.58 (1-1/8) Brazed Twinning kit: CMY-Y3	15.88 (5/8) Brazed 28.58 (1-1/8) Brazed 00VBK3
Heat exchanger Pipe between unit and distributor			9.52 (3/8) Brazed 22.2 (7/8) Brazed Outdoo	12.7 (1/2) Brazed 28.58 (1-1/8) Brazed	12.7 (1/2) Brazed 28.58 (1-1/8) Brazed 00VBK3	9.52 (3/8) Brazed 22.2 (7/8) Brazed Outdoo	12.7 (1/2) Brazed 28.58 (1-1/8) Brazed	15.88 (5/8) Brazed 28.58 (1-1/8) Brazed 00VBK3

Notes:

	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} Nominal heating conditions (subject to JIS B8615-2) Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B.6 °CW.B. (45 °FD.B./43 °FW.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
Eurovent registered
*4 Cooling mode / Heating mode
*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O).
Consult your dealer about the specification when setting External static pressure option.
*Due to continuing improvement, above specification may be subject to change without notice.





OUTDOOR UNIT Y Series - High efficiency PUHY-EP YSNW-A(-BS)



Specifications

Model			PU	HY-EP1050YSNW-A (-	BS)	PUI	-IY-EP1100YSNW-A (-	BS)	
Power source				4-wire 380-400-415 V			4-wire 380-400-415 V		
Cooling capacity		*1 kW		118.0		, p.1	124.0		
(Nominal)		BTU/h		402,600			423,100		
,	Power input	kW		32.06			33.78		
	EER	kW/kW		3.68		3.67			
	EER (ErP)+	kW/kW		4.36			4.34		
Temp. range of	Indoor	W.B.		5.0~24.0 °C (59~75 °F	:)	1	5.0~24.0 °C (59~75 °F	')	
cooling	Outdoor	D.B.		5.0~52.0 °C (23~126 °I			5.0~52.0 °C (23~126 °F		
Heating capacity	O ataoo.	*2 kW		132.0	/		140.0	/	
(Max)		BTU/h		450.400			477.700		
(,	Power input	kW		34.19			37.13		
	COP	kW/kW		3.86			3.77		
	COP (ErP) ⁺	kW/kW		4.22			4.24		
(Nomina		*3 kW		118.0			124.0		
(Nonline	41)	BTU/h		402,600			423,100		
	Power input	kW		25.05			26.78		
	COP	kW/kW		4.71			4.63		
	551	NVV/NVV		7.71			7.00		
Temp. range of	Indoor	D.B.	1	5.0~27.0 °C (59~81 °F	:)	1	5.0~27.0 °C (59~81 °F)	
heating	Outdoor	W.B.		20.0~15.5 °C (-4~60 °F			20.0~15.5 °C (-4~60 °F		
Indoor unit Total capacity		VV.D.		30% of outdoor unit ca			30% of outdoor unit cap		
connectable	Model / Quant	ity	30 1	P15~P250/3~50	paoity	30 1	P15~P250/3~50	Dacity	
Sound pressure le		1							
(measured in ane	choic room)	*4 dB <a>		68.5 / 69.0			68.5 / 69.0		
Sound power leve (measured in ane		*4 dB <a>	86.0 / 88.0		86.0 / 89.0				
Refrigerant piping	Liquid pipe	mm (in.)		19.05(3/4) Brazed			19.05(3/4) Brazed		
diameter	Gas pipe	mm (in.)		41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed		
Set Model									
Model			PUHY-EP250YNW-A (-BS)	PUHY-EP400YNW-A (-BS)	PUHY-EP400YNW-A (-BS)	PUHY-EP350YNW-A (-BS)	PUHY-EP350YNW-A (-BS)	PUHY-EP400YNW-A (-BS)	
FAN	Type x Quantit		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	185	270	270	270	270	270	
		L/s	3,083	4,500	4,500	4,500	4,500	4,500	
		cfm	6,532	9,534	9,534	9,534	9,534	9,534	
	Control, Driving			-control, Direct-driven b	,		control, Direct-driven b	,	
	Motor output	kW	0.92 x 1	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2	
*5	External static	press.	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	
Compressor	Type		Inverte	er scroll hermetic comp	ressor	Inverte	er scroll hermetic comp	ressor	
	Starting metho	od	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	7.0	10.9	10.9	9.8	9.8	10.9	
	Case heater	kW	-	-	-	-	-	-	
External finish				ated galvanized steel	sheets	Pre-co	ated galvanized steel:	sheets	
		External finish		(+powder coating for -BS type)			(+powder coating for -BS type)		
			(+pa	owder coating for -BS t		(+pc	owder coating for -BS t	ype)	
External dimension HxWxD				owder coating for -BS t UNSELL 5Y 8/1 or simi	ype)		owder coating for -BS t JNSELL 5Y 8/1 or simi		
External dimension	on HxWxD	mm	<m (1,798="" 1,858="" td="" without<=""><td>UNSELL 5Y 8/1 or simi 1,858 (1,798 without</td><td>ype) lar> 1,858 (1,798 without</td><td><mi (1,798="" 1,858="" td="" without<=""><td>JNSELL 5Y 8/1 or simi 1,858 (1,798 without</td><td>1,858 (1,798 without</td></mi></td></m>	UNSELL 5Y 8/1 or simi 1,858 (1,798 without	ype) lar> 1,858 (1,798 without	<mi (1,798="" 1,858="" td="" without<=""><td>JNSELL 5Y 8/1 or simi 1,858 (1,798 without</td><td>1,858 (1,798 without</td></mi>	JNSELL 5Y 8/1 or simi 1,858 (1,798 without	1,858 (1,798 without	
External dimension	on HxWxD		1,858 (1,798 without legs) x 920 x 740	UNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740	ype) lar> 1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	JNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740	lar> 1,858 (1,798 without legs) x 1,240 x 740	
External dimension	on HxWxD	mm in.	1,858 (1,798 without legs) x 920 x 740	UNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without	ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without	-MI 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without	JNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without	1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without	
		in.	-M 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16	UNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	JNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	
Protection	High pressure	in.	-(M 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure sensor	UNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 ; High pressure switch	ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi)	- MI 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor	JNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch	1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi)	
	High pressure Inverter circuit (in.	-(M 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure sensor Over-heat	UNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch protection, Over-currer	ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi)	- MI 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor Over-heat	JNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch protection, Over-curren	1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi)	
Protection	High pressure Inverter circuit (Compressor	in.	-(M 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure sensor	UNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 ; High pressure switch	ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi)	- MI 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor	JNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch	1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) t protection	
Protection devices	High pressure Inverter circuit (Compressor Fan motor	in. protection COMP./FAN)	-M 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure sensor Over-heat	UNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 , High pressure switch protection, Over-currer	ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) t protection -	-MI 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor Over-heat y	JNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 . High pressure switch protection, Over-curren	1,858 (1,798 without legs) x 1,240 x 740 (193) x 1,240 x 1	
Protection devices	High pressure Inverter circuit (Compressor	in. protection COMP./FAN)	-M 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure sensor Over-heat	UNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 . High pressure switch protection, Over-currer	ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) t protection - R410A x 10.8 kg (24 lbs)	- MI 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor Over-heat 1 - R410A x 9.8 kg (22 lbs)	JNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch protection, Over-curren - R410A x 9.8 kg (22 lbs)	1,858 (1,798 without legs) x 1,240 x 740 1,733/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) t protection	
Protection devices Refrigerant Net weight	High pressure Inverter circuit (Compressor Fan motor	in. protection COMP./FAN)	-KM 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure sensor Over-heat R410A x 6.5 kg (15 lbs) 231 (510)	UNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 , High pressure switch protection, Over-currer 	ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) t protection	 KMI 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor Over-heat pressure sensor Over-	JNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch orotection, Over-curren - R410A x 9.8 kg (22 lbs) 285 (629)	1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) t protection	
Protection devices Refrigerant Net weight Heat exchanger	High pressure Inverter circuit (Compressor Fan motor Type x original	in. protection COMP./FAN) charge kg (lbs)	- KM 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure sensor Over-heat	UNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 . High pressure switch protection, Over-currer - R410A x 10.8 kg (24 lbs) 305 (673) stant cross fin & alumin	ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) t protection	- MI 1,858 (1,798 without 1,858 (1,798 without 1,858 (1,798 without 1,240 x 740 73-3/16 (70-13/16 without 1,951 x 48-7/8 x 29-3/16 High pressure sensor Over-heat y R410A x 9.8 kg (22 lbs) 285 (629) Salt-resis	JNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch orotection, Over-curren 	1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) t protection	
Protection devices Refrigerant Net weight Heat exchanger Pipe between unit	High pressure Inverter circuit (Compressor Fan motor Type x original	in. protection COMP./FAN) I charge kg (lbs) mm (in.)	- KM 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure sensor Over-heat	UNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 , High pressure switch protection, Over-currer 	ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) t protection	1,858 (1,798 without legs) x 1,240 x 740	JNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch protection, Over-curren 	1,858 (1,798 without legs) x 1,240 x 740 (73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) t protection R410A x 10.8 kg (24 lbs) 305 (673) ium tube 15.88 (5/8) Brazed	
Protection devices Refrigerant Net weight Heat exchanger Pipe between unit and distributor	High pressure Inverter circuit (Compressor Fan motor Type x original	in. protection COMP./FAN) charge kg (lbs)	-M 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure sensor Over-heat - R410A x 6.5 kg (15 lbs) 231 (510) Salt-resi 9.52 (3/8) Brazed	UNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73.3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 , High pressure switch protection, Over-currer	ype) lar> lar> l,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) t protection	M1 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor Over-heat 1 R410A x 9.8 kg (22 lbs) 285 (629) Salt-resis 12.7 (1/2) Brazed 28.58 (1-1/8) Brazed	JNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch protection, Over-curren 	1,858 (1,798 without legs) x 1,240 x 740 (73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) t protection	
Protection devices Refrigerant Net weight Heat exchanger Pipe between unit	High pressure Inverter circuit (Compressor Fan motor Type x original	in. protection COMP./FAN) I charge kg (lbs) mm (in.)	 -(M) 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure sensor Over-heat - - R410A x 6.5 kg (15 lbs) 231 (510) Salt-resi 9.52 (3/8) Brazed 22.2 (7/8) Brazed Outdoo 	UNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 , High pressure switch protection, Over-currer 	ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) t protection	- MI 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor Over-heat j R410A x 9.8 kg (22 lbs) 285 (629) Salt-resic 12.7 (1/2) Brazed 28.58 (1-1/8) Brazed Outdoo	JNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch protection, Over-curren 	1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) t protection	

Notes:

*1,*2 Nominal conditions (subject to JIS B8615-2) + ErP Lot 21/6 calculation method to EN14825

,		()			
		Indoor	Outdoor	Pipe length	Level difference
	Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m (24-9/16ft.)	0m (0ft.)
	Cooling	(81°F DB/66°F WB)	(95°F DB/75°F WB)	7.5111 (24-9/1611.)	OIII (OIL.)
	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 Nominal heating conditions (subject to JIS B8615-2) Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)





Eurovent registered

*4 Cooling mode / Heating mode

*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O).

Consult your dealer about the specification when setting External static pressure option. *Due to continuing improvement, above specification may be subject to change without notice.

PUHY-EP YSNW-A(-BS)



Specifications

Model			PUI	HY-EP1150YSNW-A (-	BS)	PUI	HY-EP1200YSNW-A (-	BS)	
Power source				4-wire 380-400-415 V			4-wire 380-400-415 V		
Cooling capacity	*1	kW		130.0			136.0		
(Nominal)		BTU/h		443,600			464,000		
,	Power input	kW		35.91			38.09		
	EER	kW/kW		3.62			3.57		
	EER (ErP)*	kW/kW		4.25		4.17			
Temp. range of	Indoor	W.B.	1	5.0~24.0 °C (59~75 °F	-)	1	5.0~24.0 °C (59~75 °F	:)	
cooling	Outdoor	D.B.	-{	5.0~52.0 °C (23~126 °F	F)	-{	5.0~52.0 °C (23~126 °F	-)	
Heating capacity	*2		145.0			150.0			
(Max)		BTU/h		494,700			511,800		
	Power input	kW		38.77			40.43		
	COP	kW/kW		3.74			3.71		
	COP (ErP)*	kW/kW		4.07			3.91		
(Nomina	I) *3	kW		130.0			136.0		
		BTU/h		443,600			464,000		
	Power input	kW		28.50			30.22		
	COP	kW/kW		4.56			4.50		
Temp. range of	Indoor	D.B.		5.0~27.0 °C (59~81 °F			5.0~27.0 °C (59~81 °F		
heating	Outdoor	W.B.		20.0~15.5 °C (-4~60 °F			20.0~15.5 °C (-4~60 °F		
Indoor unit	Total capacity		50~1.	30% of outdoor unit cap	pacity	50~1.	30% of outdoor unit cap	pacity	
connectable Sound pressure le	Model / Quantity			P15~P250/3~50			P15~P250/3~50		
(measured in aned		dB <a>		69.0 / 69.5			70.0 / 70.5		
Sound power leve									
(measured in aned		dB <a>	86.5 / 88.5		87.5 / 89.5				
Refrigerant piping		mm (in.)		19.05(3/4) Brazed			19.05(3/4) Brazed		
diameter	Gas pipe	mm (in.)		41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed		
Set Model	Odo pipo	, , , , , , , , , , , , , , , , , , ,		+1.20 (1 0/0) Brazea			41.20 (1 0/0) Brazoa		
Model			PUHY-EP350YNW-A (-BS)	PUHY-EP400YNW-A (-BS)	PUHY-EP400YNW-A (-BS)	PUHY-EP400YNW-A (-BS)	PUHY-EP400YNW-A (-BS)	PUHY-EP400YNW-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	270	270	270	270	270	270	
		L/s	4,500	4,500	4,500	4,500	4,500	4,500	
		cfm	9,534	9,534	9,534	9,534	9,534	9,534	
	Control, Driving m	echanism	Inverter-	-control, Direct-driven b	by motor	Inverter-	-control, Direct-driven b	by motor	
	Motor output	kW	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2	
*5	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	Туре		Inverte	er scroll hermetic comp	ressor	Inverte	er scroll hermetic comp		
·	Starting method		Inverter					ressor	
	Motor output			Inverter	Inverter	Inverter	Inverter	ressor Inverter	
			9.8	Inverter 10.9	Inverter 10.9	Inverter 10.9			
	Case heater	kW kW					Inverter	Inverter	
External finish			9.8	10.9	10.9	10.9	Inverter 10.9	Inverter 10.9	
External finish			9.8 - Pre-cc (+pc	10.9 - pated galvanized steel steel steel steel for -BS to	10.9 - sheets ype)	10.9 - Pre-cc (+pc	Inverter 10.9 - pated galvanized steel steel sowder coating for -BS tr	Inverter 10.9 - sheets ype)	
	Case heater		9.8 - Pre-cc (+pc <mi< td=""><td>10.9 - pated galvanized steel sowder coating for -BS to JNSELL 5Y 8/1 or similar to the steel st</td><td>10.9 - sheets ype) ilar></td><td>10.9 - Pre-cc (+pc <mi< td=""><td>Inverter 10.9 - pated galvanized steel stowder coating for -BS to UNSELL 5Y 8/1 or similar to the steel stowers.</td><td>Inverter 10.9 - sheets /pe) lar></td></mi<></td></mi<>	10.9 - pated galvanized steel sowder coating for -BS to JNSELL 5Y 8/1 or similar to the steel st	10.9 - sheets ype) ilar>	10.9 - Pre-cc (+pc <mi< td=""><td>Inverter 10.9 - pated galvanized steel stowder coating for -BS to UNSELL 5Y 8/1 or similar to the steel stowers.</td><td>Inverter 10.9 - sheets /pe) lar></td></mi<>	Inverter 10.9 - pated galvanized steel stowder coating for -BS to UNSELL 5Y 8/1 or similar to the steel stowers.	Inverter 10.9 - sheets /pe) lar>	
External finish External dimension	Case heater	kW	9.8 - Pre-cc (+pc <mi 1,858 (1,798 without</mi 	10.9 - pated galvanized steel steel steel could for -BS true JNSELL 5Y 8/1 or similar 1,858 (1,798 without	10.9 - sheets ype) ilar> 1,858 (1,798 without	10.9 - Pre-cc (+pc <mi 1,858 (1,798 without</mi 	Inverter 10.9 - pated galvanized steel sowder coating for -BS to UNSELL 5Y 8/1 or similar, 1,858 (1,798 without	Inverter 10.9 - sheets ype) lar> 1,858 (1,798 without	
	Case heater		9.8 - Pre-cc (+pc <mi 1,858 (1,798 without legs) x 1,240 x 740</mi 	10.9	10.9 - sheets ype) ilar> 1,858 (1,798 without legs) x 1,240 x 740	10.9 - Pre-cc (+pc <mi 1,858 (1,798 without legs) x 1,240 x 740</mi 	Inverter 10.9 Dated galvanized steel owder coating for -BS trunsELL SY 8/1 or simil 1,858 (1,798 without legs) x 1,240 x 740	Inverter 10.9 - sheets /pe) lar> 1,858 (1,798 without legs) x 1,240 x 740	
	Case heater	kW	9.8 Pre-cc (+pc <mi (1,798="" (70-13="" 1,240="" 1,858="" 16="" 73-3="" 740="" legs)="" td="" without="" without<="" x=""><td>10.9</td><td>10.9 - sheets ype) ilar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without</td><td>10.9 Pre-cc (+pc <mi (1,798="" (70-13="" 1,240="" 1.858="" 16="" 73-3="" 740="" legs)="" td="" without="" without<="" x=""><td>Inverter 10.9 aled galvanized steel owder coating for -BS t UNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without</td><td>Inverter 10.9 - sheets (pe) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without</td></mi></td></mi>	10.9	10.9 - sheets ype) ilar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without	10.9 Pre-cc (+pc <mi (1,798="" (70-13="" 1,240="" 1.858="" 16="" 73-3="" 740="" legs)="" td="" without="" without<="" x=""><td>Inverter 10.9 aled galvanized steel owder coating for -BS t UNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without</td><td>Inverter 10.9 - sheets (pe) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without</td></mi>	Inverter 10.9 aled galvanized steel owder coating for -BS t UNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without	Inverter 10.9 - sheets (pe) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without	
External dimension	Case heater	mm in.	9.8	10.9 pated galvanized steel swder coating for -BS translated State (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	10.9 - sheets ype) ilar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	10.9	Inverter 10.9 	Inverter 10.9 - sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	
External dimension	Case heater n HxWxD High pressure pre	mm in.	9.8	ated galvanized steel: owder coating for -BS ty JNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch	10.9 - sheets ype) llar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi)	10.9	Inverter 10.9	Inverter 10.9 - sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 173-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi)	
External dimension	Case heater n HxWxD High pressure pre Inverter circuit (CO	mm in.	9.8	10.9 pated galvanized steel swder coating for -BS translated State (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	10.9 - sheets ype) llar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi)	10.9	Inverter 10.9 	Inverter 10.9 - sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 173-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi)	
External dimension	Case heater n HxWxD High pressure pre Inverter circuit (CO Compressor	mm in.	9.8	ated galvanized steel: owder coating for -BS ty JNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch	10.9 - sheets ype) llar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi)	10.9	Inverter 10.9	Inverter 10.9 - sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 173-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi)	
External dimension Protection devices	n HxWxD High pressure pre Inverter circuit (CO Compressor Fan motor	mm in. otection MP./FAN)	9.8	10.9 pated galvanized steel syder coating for -BS ty UNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16, High pressure switch protection, Over-current	10.9 - sheets ype) ilar> 1,858 (1,798 without legs) x 1,240 x 740 73.3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) tt protection	10.9	Inverter 10.9 ated galvanized steel owder coating for -BS trussell. 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 trussell. High pressure switch protection, Over-curren	Inverter 10.9 - sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) t protection	
External dimension Protection devices Refrigerant	Case heater n HxWxD High pressure pre Inverter circuit (CO Compressor	mm in. otection MP/FAN)	9.8	10.9 pated galvanized steel swder coating for -BS ty JNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16, High pressure switch protection, Over-curren	10.9 - sheets ype) lar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) tt protection - R410A x 10.8 kg (24 lbs)	10.9	Inverter 10.9	Inverter 10.9	
Protection devices Refrigerant Net weight	n HxWxD High pressure pre Inverter circuit (CO Compressor Fan motor	mm in. otection MP./FAN)	9.8	10.9	10.9 - sheets ype) ilar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 1.5 MPa (601 psi) tt protection - R410A x 10.8 kg (24 lbs) 305 (673)	10.9 - Pre-cc (+pc (+pc (+pc (+pc (+pc (+pc (+pc (+	Inverter 10.9 ated galvanized steel buder coating for -BS to UNSELL 5Y 8/1 or simil 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16, High pressure switch protection, Over-curren R410A x 10.8 kg (24 lbs) 305 (673)	Inverter 10.9	
Protection devices Refrigerant Net weight Heat exchanger	Case heater n HxWxD High pressure pre Inverter circuit (CO Compressor Fan motor Type x original ch	mm in. otection MP/FAN) harge kg (lbs)	9.8	10.9	10.9 - sheets ype) ilar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) tt protection R410A x 10.8 kg (24 lbs) 305 (673)	10.9	Inverter 10.9 anted galvanized steel sowder coating for -BS to UNSELL 5Y 8/1 or simil 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 , High pressure switch protection, Over-curren R410A x 10.8 kg (24 lbs) 305 (673) stant cross fin & alumin	Inverter 10.9 - sheets (pe) Iar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) t protection - R410A x 10.8 kg (24 lbs) 305 (673) ium tube	
Protection devices Refrigerant Net weight Heat exchanger Pipe between unit	Case heater In HxWxD High pressure prediction of the prediction of the pressure prediction of the pressure prediction of the pressure prediction of the pressure prediction of the pr	mm in. otection MP/FAN) marge kg (lbs) mm (in.)	9.8	ated galvanized steel: by order coating for -BS ty JNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 thigh pressure switch protection, Over-curren	10.9 - sheets ype) ilar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) at protection R410A x 10.8 kg (24 lbs) 305 (673) ilium tube 15.88 (5/8) Brazed	10.9	Inverter 10.9 Jated galvanized steel swder coating for -BS t UNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 , High pressure switch protection, Over-curren	Inverter 10.9	
Protection devices Refrigerant Net weight Heat exchanger Pipe between unit and distributor	Case heater n HxWxD High pressure pre Inverter circuit (CO Compressor Fan motor Type x original ch	mm in. otection MP/FAN) harge kg (lbs)	9.8	10.9 ated galvanized steel swder coating for -BS translated galvanized steel swder coating for -BS translated states (1,858 (1,798 without legs) x 1,240 x 740 (70-13/16 without legs) x 48-7/8 x 29-3/16 , High pressure switch protection, Over-curren - R410A x 10.8 kg (24 lbs) 305 (673) stant cross fin & alumin 15.88 (5/8) Brazed 28.58 (1-1/8) Brazed	10.9 - sheets ype) ilar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) it protection	10.9	Inverter 10.9	Inverter 10.9	
Protection devices Refrigerant Net weight Heat exchanger Pipe between unit	Case heater In HxWxD High pressure prediction of the prediction of the pressure prediction of the pressure prediction of the pressure prediction of the pressure prediction of the pr	mm in. otection MP/FAN) marge kg (lbs) mm (in.)	9.8	ated galvanized steel: by order coating for -BS ty JNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 thigh pressure switch protection, Over-curren	10.9 - sheets ype) ilar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 at 4.15 MPa (601 psi) tt protection - R410A x 10.8 kg (24 lbs) 305 (673) nium tube 15.88 (5/8) Brazed 28.58 (1-1/8) Brazed 00VBK3	10.9	Inverter 10.9 Jated galvanized steel swder coating for -BS t UNSELL 5Y 8/1 or simi 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 , High pressure switch protection, Over-curren	Inverter 10.9	

Notes:

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m (24-9/16ft.)	0m (0ft.)
Cooling	(81°F DB/66°F WB)	(95°F DB/75°F WB)	7.5111 (24-9/1011.)	om (or.)
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} Nominal heating conditions (subject to JIS B8615-2) Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)



<sup>Pipe lengin: 7.5 in (24-9) to 1.5, Exerci sinesciolo. 7 in (24-9)

Curovent registered

Cooling mode / Heating mode

Society of the static pressure option is available (30 Pa, 80 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O). Consult your dealer about the specification when setting External static pressure option.

Due to continuing improvement, above specification may be subject to change without notice.</sup>

PUHY-EP YSNW-A(-BS)



Specifications

Model			PII	HY-EP1250YSNW-A (-	.RS)	PH	HY-EP1300YSNW-A (-	.RS)	
Power source				4-wire 380-400-415 V			4-wire 380-400-415 V		
Cooling capacity	**	1 kW	о-рназс	140.0	30/00 112	о-рназс	146.0	30/00 112	
(Nominal)		BTU/h		477.700			498.200		
(Norminal)	Power input	kW		38.99		40.55			
	EER	kW/kW		3.59			3.60		
	EER (ErP)+	kW/kW		4.24			4.31		
Temp. range of	Indoor	W.B.		4.24 15.0~24.0 °C (59~75 °F	=\		4.31 15.0~24.0 °C (59~75 °F)		
cooling	Outdoor	D.B.		5.0~52.0 °C (23~126 °I			5.0~52.0 °C (23~126 °l		
Heating capacity	Outdoor *2			156.5	Γ)	-	163.0	<u></u>	
(Max)	4	BTU/h				556,200			
(IVIAX)	Power input	kW		42.52			44.78		
	COP	kW/kW		3.68			3.64		
	COP (ErP)+	kW/kW		4.01			4.09		
(Nomina		3 kW		140.0			146.0		
(Nomina	11)	BTU/h		477,700			498,200		
	Deves innut								
	Power input COP	kW		30.76			31.71		
	COP	kW/kW		4.55			4.60		
Temp. range of	Indoor	D.B.		15.0~27.0 °C (59~81 °F	=\		15 0-27 0 °C /50, 94 °F	=\	
heating	Indoor Outdoor	W.B.		20.0~27.0 °C (59~81 °F 20.0~15.5 °C (-4~60 °F			15.0~27.0 °C (59~81 °F 20.0~15.5 °C (-4~60 °F		
Indoor unit	Total capacity	I W.B.		20.0~15.5 °C (-4~60 °F 30% of outdoor unit ca			20.0~15.5 °C (-4~60 °F 30% of outdoor unit ca		
connectable	Model / Quantity		50~1	P15~P250/3~50	pacity	50~1	P15~P250/3~50	pacity	
Sound pressure le		/		P15~P250/3~50			P15~P250/3~50		
(measured in ane		dB <a>		70.0 / 72.0			70.0 / 73.5		
Sound power leve		dB <a>	87.5 / 91.0		88.0 / 92.5				
(measured in ane		+	12.22(0).2						
Refrigerant piping		mm (in.)		19.05(3/4) Brazed			19.05(3/4) Brazed		
diameter	Gas pipe	mm (in.)		41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed		
Set Model			1	I	I	I	I	I	
Model	1-		PUHY-EP400YNW-A (-BS)				PUHY-EP450YNW-A (-BS)	PUHY-EP450YNW-A (-BS)	
FAN	Type x Quantity	1 3, ,	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	270	270	305	270	305	305	
		L/s	4,500	4,500	5,083	4,500	5,083	5,083	
		cfm	9,534	9,534	10,770	9,534	10,770	10,770	
	Control, Driving n			-control, Direct-driven I			-control, Direct-driven I		
	Motor output	kW	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2	
*5	External static p	ress.	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	
Compressor	Туре			er scroll hermetic comp			er scroll hermetic comp		
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	10.9	10.9	12.4	10.9	12.4	12.4	
	Case heater	kW	-	-	-	-	-	-	
External finish				pated galvanized steel			pated galvanized steel		
				owder coating for -BS t			owder coating for -BS t		
				UNSELL 5Y 8/1 or simi			UNSELL 5Y 8/1 or sim		
External dimension	n HxWxD	mm	1,858 (1,798 without	1,858 (1,798 without	1,858 (1,798 without	1,858 (1,798 without	1,858 (1,798 without	1,858 (1,798 without	
		mm	legs) x 1,240 x 740	legs) x 1,240 x 740	legs) x 1,240 x 740	legs) x 1,240 x 740	legs) x 1,240 x 740	legs) x 1,240 x 740	
		im	73-3/16 (70-13/16 without	73-3/16 (70-13/16 without	73-3/16 (70-13/16 without	73-3/16 (70-13/16 without	73-3/16 (70-13/16 without	73-3/16 (70-13/16 without	
		in.	legs) x 48-7/8 x 29-3/16	legs) x 48-7/8 x 29-3/16	legs) x 48-7/8 x 29-3/16	legs) x 48-7/8 x 29-3/16	legs) x 48-7/8 x 29-3/16	legs) x 48-7/8 x 29-3/16	
Protection	High pressure p	rotection	High pressure sensor	, High pressure switch	at 4.15 MPa (601 psi)	High pressure sensor	r, High pressure switch	at 4.15 MPa (601 psi)	
devices	Inverter circuit (CC	OMP./FAN)	Over-heat	protection, Over-curren	nt protection	Over-heat	protection, Over-currer	nt protection	
	Compressor		-	-	-	-	-	-	
	Fan motor		-	-	-	-	-	-	
Refrigerant	Type x original of						R410A x 10.8 kg (24 lbs)		
Net weight		kg (lbs)	305 (673)	305 (673)	305 (673)	305 (673)	305 (673)	305 (673)	
Heat exchanger				stant cross fin & alumir			stant cross fin & alumir		
Pipe between unit		mm (in.)		15.88 (5/8) Brazed		15.88 (5/8) Brazed		15.88 (5/8) Brazed	
and distributor	Gas pipe	mm (in.)		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	
Optional parts			Outdoo	r Twinning kit: CMY-Y3	00VBK3	Outdoo	r Twinning kit: CMY-Y3	00VBK3	
			Hea	der: CMY-Y104/108/10	10-G		der: CMY-Y104/108/10		
			•						

Notes:

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

^{*3} Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
Eurovent registered

*4 Cooling mode / Heating mode

*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O).
Consult your dealer about the specification when setting External static pressure option.

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



PUHY-EP YSNW-A(-BS)



Specifications

Model				PUHY-EP1350YSNW-A (-BS)				
Power source				3-phase 4-wire 380-400-415 V 50/60 Hz				
Cooling capacity	*1	kW		150.0				
(Nominal)		BTU/h		511,800				
	Power input	kW		41.55				
	EER	kW/kW		3.61				
	EER (ErP)+	kW/kW		4.37				
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				
(Max)		BTU/h		573,200				
()	Power input	kW		46.53				
	COP	kW/kW	3.61					
	COP (ErP)+	kW/kW		4.17				
(Nomina		kW		150.0				
(1401111110	,	BTU/h		511.800				
	Power input	kW		32.32				
	Current input	A		54.5-51.8-49.9				
	COP	kW/kW						
Temp. range of	Indoor	D.B.		4.64 15.0~27.0 °C (59~81 °F)				
heating	Outdoor	W.B.		-20.0~15.5 °C (-4~60 °F)				
Indoor unit	Total capacity	VV.D.	50-130% of outdoor unit capacity					
connectable	Model / Quantity			P15~P250/3~50				
Sound pressure le				P15~P250/3~50				
(measured in ane	choic room) *4	dB <a>		70.5 / 74.5				
Sound power leve (measured in ane		dB <a>	88.5 / 93.5					
Refrigerant piping		mm (in.)		19.05(3/4) Brazed				
diameter	Gas pipe	mm (in.)		41.28 (1-5/8) Brazed				
Set Model	p.p.	()	I.					
Model			PUHY-EP450YNW-A (-BS)	PUHY-EP450YNW-A (-BS)	PUHY-EP450YNW-A (-BS)			
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2			
	Air flow rate	m³/min	305	305	305			
	1 11011 1010	L/s	5.083	5.083	5.083			
		cfm	10.770	10.770	10.770			
	Control, Driving m		10,770	Inverter-control, Direct-driven by motor	10,770			
	Motor output	kW	0.46 x 2	0.46 x 2	0.46 x 2			
*5	External static pr		0.40 X 2 0 Pa (0 mmH ₂ O)	0.40 X Z 0 Pa (0 mmH ₂ O)	0.40 X 2 0 Pa (0 mmH ₂ O)			
		ess.	U Pa (U MMH2O)		0 Pa (0 mmn2O)			
Compressor	Туре			Inverter scroll hermetic compressor				
	Starting method	134/	Inverter	Inverter	Inverter			
	Motor output	kW	12.4	12.4	12.4			
	Case heater	kW	-	-	-			
External finish			Pre-coated	d galvanized steel sheets (+powder coating fo <munsell 1="" 5y="" 8="" or="" similar=""></munsell>	r -BS type)			
External dimension	n HxWxD	mm	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740			
		in.	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16			
Protection	High pressure pr	otection	High press	sure sensor, High pressure switch at 4.15 MP	a (601 psi)			

Over-heat protection, Over-current protection

R410A x 10.8 kg (24 lbs) 305 (673)

Salt-resistant cross fin & aluminium tube 15.88 (5/8) Brazed

28.58 (1-1/8) Brazed

Outdoor Twinning kit: CMY-Y300VBK3 Header: CMY-Y104/108/1010-G

Notes:

devices

Refrigerant

Net weight

and distributor

Optional parts

Heat exchanger
Pipe between unit Liquid pipe

*1,*2 Nominal conditions (subject to JIS B8615-2) + ErP Lot 21/6 calculation method to EN14825

	Indoor	Outdoor	Pipe length Level difference	
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m (24-9/16ft.) 0m (0ft.)	
Cooming	(81°F DB/66°F WB)	(95°F DB/75°F WB)	7.5111 (24-9/1011.)	OIII (OIL.)
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.)

R410A x 10.8 kg (24 lbs)

305 (673)

15.88 (5/8) Brazed

28.58 (1-1/8) Brazed

Inverter circuit (COMP./FAN)

kg (lbs)

mm (in.)

mm (in.)

Type x original charge

Compressor Fan motor

Gas pipe



R410A x 10.8 kg (24 lbs)

305 (673)

15.88 (5/8) Brazed

28.58 (1-1/8) Brazed



^{*3} Nominal heating conditions (subject to JIS B8615-2) Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

*4 Cooling mode / Heating mode

*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O).

Consult your dealer about the specification when setting External static pressure option. *Due to continuing improvement, above specification may be subject to change without notice.

R2 (Heat Recovery) series



Simultaneous Heating and Cooling

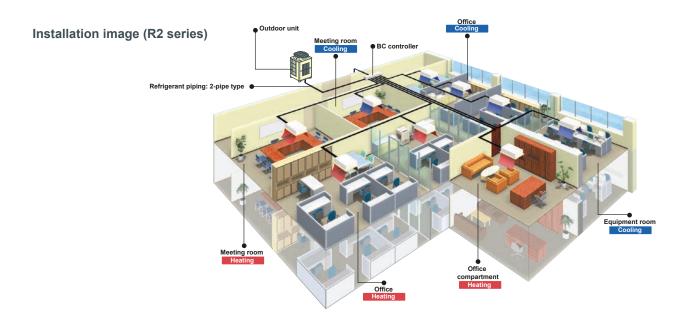
R2 series — PURY-P YNW-A(-BS) PURY-P YSNW-A(-BS)

PURY-EP YNW-A(-BS) PURY-EP YSNW-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.

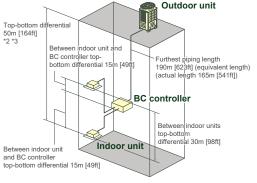
This innovation results in virtually no energy wasted by being expelled outdoors. Depending on capacity, up to 50 indoor units can be connected with up to 150% connected capacity.



System Pipe Lengths [P200-P1100 (R2 Series)]

Refrigerant Piping Lengths Vertical differentials between units | Maximum meters [Feet] Indoor/outdoor (outdoor higher) ····· 50 [164]*3
Indoor/outdoor (outdoor lower) ····· 40 [131]*3 Total piping length P200-P300 · · · · · ·550 [1,804] *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. 800 [2,624] P700-P1,100··· Maximum allowable length · · · · · · · Indoor/indoor ··············30 [98]
Main BC Controller/Sub-BC Controller ··· 15 [49] [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/mai 40-90 [131-295] BC controller and indoor ···· and sub-BC controller*1

*22HP (P550) can be used only in combination with others



*1 When you install a sub-BC controller, please refer to DATABOOK for full details.



^{*2} When the outdoor unit is installed below the indoor unit, top-bottom differential is 40m [131ft].

*3 Depending on the model and installation conditions, top-bottom differential is 40m [295ft] (o/u above) and 60m [196ft] (o/u below) is available. For more detailed information, please contact your nearest sales office or distributor.

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

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

PURY-P YNW-A(-BS)



Specifications

Model			PURY-P200YNW-A (-BS)	PURY-P250YNW-A (-BS)	PURY-P300YNW-A (-BS)	PURY-P350YNW-A (-BS)
Power source					3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity	*1	kW	22.4	28.0	33.5	40.0
(Nominal)		BTU/h	76,400	95,500	114,300	136,500
	Power input	kW	5.62	7.46	9.15	10.86
	EER	kW/kW	3.98	3.75	3.66	3.68
	EER (ErP)+	kW/kW	5.05	4.69	4.44	3.98
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	25.0	31.5	37.5	45.0
(Max)		BTU/h	85,300	107,500	128,000	153,500
	Power input	kW	5.98	7.68	9.97	11.50
	COP	Α	4.18	4.10	3.76	3.91
	COP (ErP)+	kW/kW	5.30	5.19	4.47	4.21
(Nomina	1) *3	kW	22.4	28.0	33.5	40.0
		BTU/h	76,400	95,500	114,300	136,500
	Power input	kW	4.14	5.27	6.8	8.84
	COP	kW/kW	5.41	5.31	4.92	4.52
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		50~150%	50~150%	50~150%	50~150%
connectable	Model / Quantity		P15~P250/1~20	P15~P250/1~25	P15~P250/1~30	P15~P250/1~35
Sound pressure le						
(measured in aned		dB <a>	59.0 / 59.0	60.5 / 61.0	61.0 / 67.0	62.5 / 64.0
Sound power leve	1101010100111					
(measured in aned		dB <a>	76.0 / 78.0	78.5 / 80.0	80.0 / 86.5	81.0 / 83.0
		/: \	15.88 (5/8) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed
Refrigerant piping diameter		mm (in.)				
	Low pressure	mm (in.)	19.05 (3/4) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed
FAN	Type x Quantity	3, .	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2
	Air flow rate	m³/min	170	185	240	250
		L/s	2,833	3,083	4,000	4,167
		cfm	6,003	6,532	8,474	8,828
			Inverter-control, Direct-driven by motor			
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.46 x 2
*5		ess.	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)
Compressor	Туре					Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.6	7.0	7.9	10.2
	Case heater	kW	-	-	-	-
External finish			Pre-coated galvanized steel sheets			
			(+powder coating for -BS type)			
			<munsell 1="" 5y="" 8="" or="" similar=""></munsell>			
External dimension	n HxWxD		1,858 (1,798 without legs) x			
		mm	920 x 740	920 x 740	920 x 740	1,240 x 740
			73-3/16 (70-13/16 without legs) x			
		in.	36-1/4 x 29-3/16	36-1/4 x 29-3/16	36-1/4 x 29-3/16	48-7/8 x 29-3/16
Protection	High pressure pro	otection	High pressure sensor, High pressure			
devices			switch at 4.15 MPa (601 psi)			
	Inverter circuit (CO	MP./FAN)	Over-heat protection,	Over-heat protection,	Over-heat protection,	Over-heat protection,
		,	Over-current protection	Over-current protection	Over-current protection	Over-current protection
	Compressor		-	-	-	-
	Fan motor		_		_	_
Refrigerant	Type x original ch	arge	R410A x 5.2 kg (12 lbs)	R410A x 5.2 kg (12 lbs)	R410A x 5.2 kg (12 lbs)	R410A x 8.0 kg (18 lbs)
Net weight	Type x original or	kg (lbs)	229 (505)	229 (505)	231 (510)	273 (602)
Heat exchanger		kg (ibs)	Salt-resistant cross fin &			
i leat excilarigei			copper tube	copper tube	copper tube	copper tube
Optional parts				Joint: CMY-R160-J1 BC controller: CMB-		
				Main BC controller: CMB-P108,10 CMB-P1016V-		

Notes:

*1,*2 Nominal conditions (subject to JIS B8615-2) + ErP Lot 21/6 calculation method to EN14825

	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 Nominal heating conditions (subject to JIS B8615-2) Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)





Fige length: 7-3 in (24-5) to Lf., Local anisotics. 5 in (24-5)

Eurovent registered

*4 Cooling mode / Heating mode

*5 External static pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External static pressure option.

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

PURY-P YNW-A(-BS)



Specifications

Model			PURY-P400YNW-A (-BS)	PURY-P450YNW-A (-BS)	PURY-P500YNW-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)		BTU/h	153,500	170,600	191,100
,	Power input	kW	12.93	14.92	16.23
	EER	kW/kW	3.48	3.35	3.45
	EER (ErP)+	kW/kW	3.88	4.04	4.40
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)
coolina	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		50.0	56.0	63.0
(Max)	2	BTU/h	170,600	191,100	215,000
(IVIAX)	Power input	kW	13.92	16.47	16.23
	COP			-	
		Α	3.59	3.40	3.88
	COP (ErP)+	kW/kW	3.66	4.15	4.12
(Nomina	il) *3	kW	45.0	50.0	56.0
		BTU/h	153,500	170,600	191,100
	Power input	kW	10.29	10.91	12.09
	COP	kW/kW	4.37	4.58	4.63
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	, vv.b.	50~150%	50~150%	50~150%
connectable	Model / Quantity		P15~P250/1~40	P15~P250/1~45	P15~P250/1~50
Sound pressure le		1	1 13 1 230/1 40	1 13 1 230/1 43	1 13 1 230/1 30
(measured in ane	choic room) *4	dB <a>	65.0 / 69.0	65.5 / 70.0	63.5 / 64.5
Sound power leve measured in ane		dB <a>	83.0 / 88.0	83.0 / 89.0	82.0 / 84.0
Refrigerant piping diameter	High pressure	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed
a.a.moto.	Low pressure	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
FAN	Type x Quantity	111111 (111.)	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
FAIN	Air flow rate m³/min		315	315	295
	Air flow rate		5,250	5,250	4,917
		L/s			10.416
		cfm	11,123	11,123	
	Control, Driving m		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
	Motor output	kW	0.46 x 2	0.46 x 2	0.92 x 2
	External static pr	ess.	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)
Compressor	Type		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	10.9	12.4	13.0
	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	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x1,750 x 740
		in.	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 68-15/16 x 29-3/16
Protection devices	High pressure pr	otection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
uevides	Inverter circuit (CC	MP./FAN)	Over-heat protection,	Over-heat protection,	Over-heat protection,
			Over-current protection	Over-current protection	Over-current protection
	Compressor		-	-	-
	Fan motor		-	-	-
Refrigerant	Type x original cl	harge	R410A x 8.0 kg (18 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)
Net weight		kg (lbs)	273 (602)	293 (646)	337 (743)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
Optional parts				Joint: CMY-R160-J1 Main BC controller: CMB-P108,1012,1016V-JA, CMB-P1016V-KA	
Optional parts				Main BC controller: CMB-P108,1012,1016V-JA,	

Notes:

-					
		Indoor	Outdoor	Pipe length	Level difference
	Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m (24-9/16ft.) 0m (0ft.)	
	Cooling	(81°F DB/66°F WB)	(95°F DB/75°F WB)	7.5111 (24-9/1011.)	OIII (OIL.)
	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} Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
Eurovent registered
*4 Cooling mode / Heating mode
*5 External static pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).
Consult your dealer about the specification when setting External static pressure option.
*Due to continuing improvement, above specification may be subject to change without notice.

PURY-P YSNW-A(-BS)



Specifications

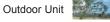
Model			PURY-P400Y	SNW-A (-B <u>S)</u>	PURY-P450Y			(SNW-A (-BS)
Power source			3-phase 4-wire 380-	400-415 V 50/60 Hz	3-phase 4-wire 380-	400-415 V 50/60 Hz	3-phase 4-wire 380	-400-415 V 50/60 Hz
Cooling capacity	*1	kW	45	i.0	50	0.0	50	6.0
(Nominal)		BTU/h	153	500	170	,600	191	,100
,	Power input	kW		.65	13	.33	15	5.38
	EER	kW/kW	3.	86	3.7	75	3.64	
	EER (ErP) ⁺	kW/kW	4.		4.72			.55
Temp. range of	Indoor	W.B.	15.0~24.0 °C			C (59~75 °F)		C (59~75 °F)
cooling	Outdoor	D.B.	-5.0~52.0 °C			(23~126 °F)		C (23~126 °F)
Heating capacity	*2			1.0		3.0		3.0
(Max)	_	BTU/h	170			,100		5,000
(IVIAX)	Power input	kW	12.			.93		5.82
	COP	kW/kW	4.0		4.1			.98
	COP (ErP) ⁺	kW/kW	5.			09		.03
(Nomina		kW	45			0.0		6.0
(INOITIIIIa	ıı <i>)</i> 3	BTU/h		500		,600		,100
	Power input		8.			63).87
	COP	kW	5			19		.15
	COP	kW/kW	5	24	5.	19	5.	. 13
T (la de en		450.0700	2 (FO 04 %F)	450.0700	C /EO 04 %E\	450.0700	C (FO 04 %F)
Temp. range of	Indoor	D.B.		15.0~27.0 °C (59~81 °F) -20.0~15.5 °C (-4~60 °F)		C (59~81 °F)		C (59~81 °F)
heating	Outdoor	W.B.				C (-4~60 °F)		°C (-4~60 °F)
Indoor unit	Total capacity			loor unit capacity		door unit capacity		door unit capacity
connectable	Model / Quantity		P15~P2	50/1~40	P15~P2	50/1~45	P15~P2	250/1~50
Sound pressure le		dB <a>	62.0	62.0	63.0	/ 63.5	63.5	/ 64.0
(measured in ane		ub //						
Sound power leve		dB <a>	79.0	81.0	80.5	/ 82.5	81.5	/ 83.0
(measured in ane								
Refrigerant piping		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	I/8) Brazed
Set Model								
Model				PURY-P200YNW-A (-BS)		PURY-P250YNW-A (-BS)		PURY-P250YNW-A (-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m³/min	170	170	170	185	185	185
		L/s	2,833	2,833	2,833	3,083	3,083	3,083
		cfm	6,003	6,003	6,003	6,532	6,532	6,532
	Control, Driving m	echanism	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor	Inverter-control, Di	rect-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
*5	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	Туре		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	rmetic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.6	5.6	5.6	7.0	7.0	7.0
	Case heater	kW	-	-	-	-	-	-
External finish	•		Pre-coated galvar	nized steel sheets	Pre-coated galva	nized steel sheets	Pre-coated galva	nized steel sheets
			(+powder coatii			ng for -BS type)		ing for -BS type)
			<munsell 5y<="" td=""><td>8/1 or similar></td><td><munsell 5y<="" td=""><td>′ 8/1 or similar></td><td><munsell 5\<="" 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 5\<="" td=""><td>/ 8/1 or similar></td></munsell></td></munsell>	′ 8/1 or similar>	<munsell 5\<="" td=""><td>/ 8/1 or similar></td></munsell>	/ 8/1 or similar>
External dimensio	n HxWxD		1.858 (1.798 without	1,858 (1,798 without	1.858 (1.798 without	1.858 (1.798 without	1.858 (1.798 without	1,858 (1,798 without
		mm	legs) x 920 x 740	legs) x 920 x 740	legs) x 920 x 740	legs) x 920 x 740	legs) x 920 x 740	legs) x 920 x 740
				73-3/16 (70-13/16 without		73-3/16 (70-13/16 without	73-3/16 (70-13/16 without	73-3/16 (70-13/16 without
		in.	legs) x 36-1/4 x 29-3/16	legs) x 36-1/4 x 29-3/16	legs) x 36-1/4 x 29-3/16		legs) x 36-1/4 x 29-3/16	
Protection	High pressure pre	otection		High pressure switch		High pressure switch		r, High pressure switch
devices	ingii procedie pr	010011011	at 4.15 MP			a (601 psi)		Pa (601 psi)
	Inverter circuit (CO	MP/FAN)		Over-current protection		Over-current protection		Over-current protection
	Compressor	1411 ./1 / 414)	=	-	-	-	-	
	Fan motor		-	-	-	_	-	_
Refrigerant	Type x original ch	arge	R410A x 5.2			2 kg (12 lbs)		2 kg (12 lbs)
Net weight	Trybe voliding c		229 (505)	229 (505)	229 (505)	229 (505)	229 (505)	229 (505)
		kg (lbs)		s fin & copper tube		s fin & copper tube		
Heat exchanger	It that a manager	(:- `						ss fin & copper tube
Pipe between unit		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	
and distributor	Low 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
Optional parts			Outdoor Twinning k	it: CMY-R100VBK4		tit: CMY-R100VBK4		kit: CMY-R100VBK4
			Joint: CMY-R160-J1	040 404014 IA OMB B40::::::	Joint: CMY-R160-J1		Joint: CMY-R160-J1	
				012,1016V-JA,CMB-P1016V-KA		1012,1016V-JA,CMB-P1016V-KA		1012,1016V-JA,CMB-P1016V-KA
			Sub BC controller	: UMB-P104V-KB	Sub BC controlle	r: CMB-P104V-KB	Sub BC controlle	r: CMB-P104V-KB

Notes:

*1,*2 Nominal conditions (subject to JIS B8615-2) + ErP Lot 21/6 calculation method to EN14825

	Indoor	Indoor Outdoor		Level difference	
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m (24-9/16ft.)	0m (0ft.)	
Cooling	(81°F DB/66°F WB)	(95°F DB/75°F WB)	7.5111 (24-5/1011.)	on (oit.)	
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)	

*3 Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B.)6 °CW.B. (45 °FD.B./43 °FW.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
Eurovent registered
*4 Cooling mode / Heating mode
*5 External static pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).
Consult your dealer about the specification when setting External static pressure option.
*Due to continuing improvement, above specification may be subject to change without notice.



PURY-P YSNW-A(-BS)



Specifications

Model			PURY-P550Y		PURY-P600Y		PURY-P650Y	
Power source				400-415 V 50/60 Hz		400-415 V 50/60 Hz		400-415 V 50/60 Hz
Cooling capacity	*1	kW	63	3.0	69	9.0	73	3.0
(Nominal)		BTU/h	215	,000	235	,400	249	,100
	Power input	kW		.54		.43	20	
	EER	kW/kW	3.	59	3.	55	3.	56
	EER (ErP)+	kW/kW	4.	35	4.	15	4.	01
Temp. range of	Indoor	W.B.	15.0~24.0 °C (59~75 °F)		15.0~24.0 °	C (59~75 °F)	15.0~24.0 °C	C (59~75 °F)
cooling	Outdoor	D.B.		(23~126 °F)		(23~126 °F)	-5.0~52.0 °C	
Heating capacity	*2			0.0		3.5		.5
(Max)		BTU/h		400		,000	278	
,	Power input	kW		.11		.95	21	
	COP	kW/kW	3.			65		72
	COP (ErP)+	kW/kW		69		34	4.:	
(Nomina		kW		3.0		9.0		3.0
(,	BTU/h		.000		,400	249	
	Power input	kW		.01		.26	16	
	COP	kW/kW		84		52		45
		1000/1000		<u> </u>		<u> </u>		
Temp. range of	Indoor	D.B.	15 0~27 0 °0	C (59~81 °F)	15 0~27 0 °	C (59~81 °F)	15.0~27.0 °C	C (59~81 °F)
heating	Outdoor	W.B.		C (-4~60 °F)		C (-4~60 °F)	-20.0~15.5 °	
Indoor unit	Total capacity			loor unit capacity		door unit capacity	50~150% of outo	
connectable	Model / Quantity			50/2~50		50/2~50	P15~P2	
Sound pressure le		1						
(measured in ane		dB <a>	64.0	68.0	64.0	/ 70.0	65.0	69.0
Sound power leve								
(measured in ane		dB <a>	82.5	87.5	83.0 / 89.5		83.5 / 88.5	
	0110101001111		22.2 (7/8) Brazed (1-	1/8 (28.58) Brazed for	22.2 (7/8) Brazed (1-	1/8 (28.58) Brazed for		
diameter	tefrigerant piping High pressure mm (in.)			exceeds 65 m)		exceeds 65 m)	28.58 (1-1	/8) Brazed
ulametei	Low pressure	mm (in.)		/8) Brazed		/8) Brazed	28.58 (1-1	/8) Brazed
Set Model	zon procedio	, , , , , , , , , , , , , , , , , , , ,	20.00 (1.1	70/ 5:4204	20.00 (70/ 214204	20.00 (1.1	70) 214204
Model			DIIRY-D250YNW-A (-RS)	PURY-P300YNW-A (-BS)	DIIBA-D300ANM-V (-B2)	PURY-P300YNW-A (-BS)	PURY-P300YNW-A (-BS)	DIIRY-D350VNW-A (-RS)
FAN	Type x Quantity		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	240	240	240	240	250
	7 III IIOW Tato	L/s	3,083	4,000	4.000	4,000	4,000	4,167
		cfm	6,532	8,474	8,474	8,474	8,474	8,828
	Control, Driving m			ect-driven by motor		rect-driven by motor		ect-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.46 x 2
*5	External static pr		0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Туре	000.		metic compressor		metic compressor	Inverter scroll her	
Compressor	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	7.0	7.9	7.9	7.9	7.9	10.2
	Case heater	kW	-	-	-	-	-	-
External finish	Case Heater	NVV		nized steel sheets		nized steel sheets	Pre-coated galvar	
LAterrial IIIIISII				ng for -BS type)		ng for -BS type)		ing for -BS type)
				8/1 or similar>		' 8/1 or similar>	<munsell 5y<="" td=""><td></td></munsell>	
External dimension	n HvM/vD	1		1,858 (1,798 without		1,858 (1,798 without	1,858 (1,798 without	
LAterrial difficilisio	IIIIXWXD	mm	legs) x 920 x 740	legs) x 920 x 740	legs) x 920 x 740	legs) x 920 x 740	legs) x 920 x 740	legs) x 1,240 x 740
				73-3/16 (70-13/16 without		73-3/16 (70-13/16 without		
		in.		legs) x 36-1/4 x 29-3/16		legs) x 36-1/4 x 29-3/16	legs) x 36-1/4 x 29-3/16	
Protection	High pressure pre	otootion		High pressure switch		High pressure switch	High pressure sensor	
devices	nigii pressure pr	DIECTION	at 4.15 MF			a (601 psi)	at 4.15 MP	
devices	Inverter circuit (CO	MD/EANI)		Over-current protection				
		IVIP./FAIN)	- Over-near protection, v	Jver-current protection	Over-near protection,	Over-current protection	Over-near protection, t	Jver-current protection
	Compressor		-	-	-	-	-	-
Defriessent	Fan motor			- D440A v E 0 km (40 lb -)	D4404 v E 2 km (40 lb -)	D4404 v E 0 km (40 lb -)		- D440A v 0 0 km /40 lb -
Refrigerant	Type x original ch						R410A x 5.2 kg (12 lbs)	
Net weight		kg (lbs)	229 (505)	231 (510)	231 (510)	231 (510)	231 (510)	273 (602)
Heat exchanger	Tre r			s fin & copper tube		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) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed
and distributor	Low pressure	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed		28.58 (1-1/8) Braze
Optional parts				it: CMY-R100VBK4		kit: CMY-R100VBK4	Outdoor Twinning k	tit: CMY-R100VBK4
			Joint: CMY-R160-J1		Joint: CMY-R160-J1		Joint: CMY-R160-J1	
				012,1016V-JA,CMB-P1016V-KA	Main BC controller: CMB-P108,	1012,1016V-JA,CMB-P1016V-KA	Main BC controller: CMB-P108,1	

Sub BC controller: CMB-P104V-KB

Sub BC controller: CMB-P104V-KB

Notes:

*1,*2 Nominal conditions (subject to JIS B8615-2) + ErP Lot 21/6 calculation method to EN14825

		Indoor	Outdoor	Pipe length	Level difference	
	Cooling	27°C DB/19°C WB	B 35°C DB/24°C WB 7.5m (24-9/16ft.)		0m (0ft.)	
		(81°F DB/66°F WB)	(95°F DB/75°F WB)	7.5111 (24-9/1011.)	OIII (OIL.)	
	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.)	

Sub BC controller: CMB-P104V-KB

*3 Nominal heating conditions (subject to JIS B8615-2) Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)



Eurovent registered
*4 Cooling mode / Heating mode

⁴ Cooling mode? Healing mode
5 External static pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).
Consult your dealer about the specification when setting External static pressure option.

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

PURY-P YSNW-A(-BS)



Specifications

Power source			PURY-P700Y		PURY-P750Y			SNW-A (-BS)
			3-phase 4-wire 380-4		3-phase 4-wire 380-			400-415 V 50/60 Hz
Cooling capacity	*1	kW	80		85		90	0.0
(Nominal)		BTU/h	273,	000	290	000	307	,100
	Power input	kW	22.	47	24.	56	26.62	
	EER	kW/kW	3.56		3.4	16	3.	38
	EER (ErP)+	kW/kW	3.8		3.8	31	3.	76
Temp. range of	Indoor	W.B.	15.0~24.0 °C		15.0~24.0 °C			C (59~75 °F)
	Outdoor	D.B.	-5.0~52.0 °C		-5.0~52.0 °C			(23~126 °F)
Heating capacity	*2	kW	88		95			0.0
(Max)	2	BTU/h	300.		324			.200
	Power input	kW	23.		26			.73
	COP	kW/kW	3.7		3.6		3.4	
				·				10 55
	COP (ErP)*	kW/kW	4.0		3.8			
(Nominal) ^3	kW	80	·	85			0.0
	-	BTU/h	273,		290			,100
	Power input	kW	18.		19.			.22
	COP	kW/kW	4.3	38	4.3	31	4.	24
Temp. range of	Indoor	D.B.	15.0~27.0 °C		15.0~27.0 °C			C (59~81 °F)
heating	Outdoor	W.B.	-20.0~15.5 °C		-20.0~15.5°			C (-4~60 °F)
Indoor unit	Total capacity		50~150% of outd	oor unit capacity	50~150% of outo	oor unit capacity	50~150% of outo	door unit capacity
connectable	Model / Quantity		P15~P25	50/2~50	P15~P2	50/2~50	P15~P2	50/2~50
Sound pressure le		ID A	05.57	07.0	27.0	170.5	22.2	/ 70.0
(measured in anec		dB <a>	65.5 /	07.0	67.0	70.5	68.0	/ 72.0
Sound power level								
(measured in anec		dB <a>	84.0 /	86.0	85.5	89.5	86.0	/ 91.0
Refrigerant piping		mm (in.)	28.58 (1-1/	8) Brazed	28.58 (1-1	/8) Brazed	28 58 (1-1	/8) Brazed
	Low pressure	mm (in.)	34.93 (1-3/		34.93 (1-3			//8) Brazed
Set Model	Low pressure	111111 (111.)	34.33 (1-3/	o) biażeu	34.93 (1-3	o) brazeu	34.93 (1-3	70) Diazeu
			DUDY DOCOVNIA A / DO)	DUDY DOSOVANA A / DO)	PURY-P350YNW-A (-BS)	DUDY DAGGYNIM A / DO)	DUDY DAGOVANNA A / DO)	DUDY DAGOVANA A / DOV
Model	T							PURY-P400YNW-A (-BS)
FAN	Type x Quantity	3, ,	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	250	250	250	315	315	315
		L/s	4,167	4,167	4,167	5,250	5,250	5,250
		cfm	8,828	8,828	8,828	11,123	11,123	11,123
	Control, Driving m		Inverter-control, Dire		Inverter-control, Dir			ect-driven by motor
	Motor output	kW	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2
*5	External static pro	ess.	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)
Compressor	Туре		Inverter scroll herr	netic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	10.2	10.2	10.2	10.9	10.9	10.9
	Case heater	kW	-		-	-	-	-
External finish			Pre-coated galvan	ized steel sheets	Pre-coated galvar	nized steel sheets	Pre-coated galva	nized steel sheets
			(+powder coatin		(+powder coatii			ng for -BS type)
			<munsell 5y<="" td=""><td></td><td><munsell 5y<="" td=""><td></td><td></td><td>' 8/1 or similar></td></munsell></td></munsell>		<munsell 5y<="" td=""><td></td><td></td><td>' 8/1 or similar></td></munsell>			' 8/1 or similar>
External dimension	HvWvD		1,858 (1,798 without			1,858 (1,798 without		1,858 (1,798 without
External dimension	TTIAVVAD	mm	legs) x 1,240 x 740	legs) x 1,240 x 740	legs) x 1,240 x 740	legs) x 1,240 x 740	legs) x 1,240 x 740	legs) x 1,240 x 740
			73-3/16 (70-13/16 without		73-3/16 (70-13/16 without			73-3/16 (70-13/16 withou
		in.	legs) x 48-7/8 x 29-3/16		legs) x 48-7/8 x 29-3/16		legs) x 48-7/8 x 29-3/16	legs) x 48-7/8 x 29-3/16
Duntantinu	110-1	. 4 4!	High pressure sensor,					
Protection	High pressure pro	tection			High pressure sensor,			High pressure switch
			at 4.15 MP		at 4.15 MP			Pa (601 psi)
devices	Inverter circuit (COMP./F		l Over-heat protection. C	Over-current protection	Over-heat protection, (Over-current protection	Over-heat protection,	Over-current protection
devices		MP./FAN)						_
devices	Compressor	MP./FAN)	-	-	-	<u>-</u>	-	
	Compressor Fan motor		-	-	-	-	-	-
Refrigerant	Compressor	arge	- - R410A x 8.0 kg (18 lbs)		- R410A x 8.0 kg (18 lbs)		R410A x 8.0 kg (18 lbs)	
	Compressor Fan motor		-	- R410A x 8.0 kg (18 lbs) 273 (602)	- R410A x 8.0 kg (18 lbs) 273 (602)	- R410A x 8.0 kg (18 lbs) 273 (602)		- R410A x 8.0 kg (18 lbs) 273 (602)
Refrigerant	Compressor Fan motor	arge	- - R410A x 8.0 kg (18 lbs)	273 (602)		273 (602)	R410A x 8.0 kg (18 lbs) 273 (602)	
Refrigerant Net weight Heat exchanger	Compressor Fan motor Type x original ch	arge kg (lbs)	- R410A x 8.0 kg (18 lbs) 273 (602) Salt-resistant cross	273 (602) fin & copper tube	273 (602) Salt-resistant cross	273 (602) s fin & copper tube	R410A x 8.0 kg (18 lbs) 273 (602) Salt-resistant cros	273 (602) s fin & copper tube
Refrigerant Net weight Heat exchanger Pipe between unit	Compressor Fan motor Type x original ch	arge kg (lbs) mm (in.)	- R410A x 8.0 kg (18 lbs) 273 (602) Salt-resistant cross 19.05 (3/4) Brazed	273 (602) s fin & copper tube 19.05 (3/4) Brazed	273 (602) Salt-resistant cross 19.05 (3/4) Brazed	273 (602) s fin & copper tube 22.2 (7/8) Brazed	R410A x 8.0 kg (18 lbs) 273 (602) Salt-resistant cros 22.2 (7/8) Brazed	273 (602) s fin & copper tube 22.2 (7/8) Brazed
Refrigerant Net weight Heat exchanger Pipe between unit and distributor	Compressor Fan motor Type x original ch	arge kg (lbs) mm (in.)	R410A x 8.0 kg (18 lbs) 273 (602) Salt-resistant cross 19.05 (3/4) Brazed 28.58 (1-1/8) Brazed	273 (602) fin & copper tube 19.05 (3/4) Brazed 28.58 (1-1/8) Brazed	273 (602) Salt-resistant cross 19.05 (3/4) Brazed 28.58 (1-1/8) Brazed	273 (602) s fin & copper tube 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed	R410A x 8.0 kg (18 lbs) 273 (602) Salt-resistant cros 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed	273 (602) s fin & copper tube 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed
Refrigerant Net weight Heat exchanger Pipe between unit	Compressor Fan motor Type x original ch	arge kg (lbs) mm (in.)	R410A x 8.0 kg (18 lbs) 273 (602) Salt-resistant cross 19.05 (3/4) Brazed 28.58 (1-1/8) Brazed Outdoor Twinning ki	273 (602) fin & copper tube 19.05 (3/4) Brazed 28.58 (1-1/8) Brazed	273 (602) Salt-resistant cross 19.05 (3/4) Brazed 28.58 (1-1/8) Brazed Outdoor Twinning k	273 (602) s fin & copper tube 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed	R410A x 8.0 kg (18 lbs) 273 (602) Salt-resistant cros 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed Outdoor Twinning I	273 (602) s fin & copper tube
Refrigerant Net weight Heat exchanger Pipe between unit and distributor	Compressor Fan motor Type x original ch	arge kg (lbs) mm (in.)		273 (602) s fin & copper tube 19.05 (3/4) Brazed 28.58 (1-1/8) Brazed t: CMY-R200VBK4	273 (602) Salt-resistant cross 19.05 (3/4) Brazed 28.58 (1-1/8) Brazed Outdoor Twinning k Joint: CMY-R160-J1	273 (602) s fin & copper tube 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed it: CMY-R200VBK4	R410A x 8.0 kg (18 lbs) 273 (602) Salt-resistant cros 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed Outdoor Twinning I Joint: CMY-R160-J1	273 (602) s fin & copper tube 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed dit: CMY-R200VBK4
Refrigerant Net weight Heat exchanger Pipe between unit and distributor	Compressor Fan motor Type x original ch	arge kg (lbs) mm (in.)	R410A x 8.0 kg (18 lbs) 273 (602) Salt-resistant cross 19.05 (3/4) Brazed 28.58 (1-1/8) Brazed Outdoor Twinning ki	273 (602) if in & copper tube 19.05 (3/4) Brazed 28.58 (1-1/8) Brazed t: CMY-R200VBK4 012,1016V-JA,CMB-P1016V-KA	273 (602) Salt-resistant cross 19.05 (3/4) Brazed 28.58 (1-1/8) Brazed Outdoor Twinning k	273 (602) s fin & copper tube 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed it: CMY-R200VBK4 012,1016V-JA,CMB-P1016V-KA	R410A x 8.0 kg (18 lbs) 273 (602) Salt-resistant cros 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed Outdoor Twinning I Joint: CMY-R160-J1 Main BC controller: CMB-P108;	273 (602) s fin & copper tube 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed

Notes:

^{*1,*2} Nominal conditions (subject to JIS B8615-2) + ErP Lot 21/6 calculation method to EN14825

	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 Nominal heating conditions (subject to JIS B8615-2) Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)





Eurovent registered

*4 Cooling mode / Heating mode

*5 External static pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External static pressure option.

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

PURY-P YSNW-A(-BS)



Specifications

Model			PURY-P850Y		PURY-P900Y			(SNW-A (-BS)
Power source				400-415 V 50/60 Hz	3-phase 4-wire 380-			-400-415 V 50/60 Hz
Cooling capacity	*1	kW		3.0	10			0.80
(Nominal)		BTU/h	327		344			3,500
	Power input	kW		.00	31.07			3.23
	EER	kW/kW	3.3		3.2			.25
	EER (ErP)+	kW/kW	3.		3.9			.09
Temp. range of	Indoor	W.B.	15.0~24.0 °C	C (59~75 °F)	15.0~24.0 °C		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	C (23~126 °F)
Heating capacity	*2	kW	10	8.0	11:		11	9.5
(Max)		BTU/h	368	,500	385	.600	407	7,700
	Power input	kW		.85	34.			3.85
	COP	kW/kW	3.3		3.3	30		.53
	COP (ErP)+	kW/kW	3.		4.1			.01
(Nominal				3.0	10			0.80
(1101111111	.,	BTU/h		,600	344.			3,500
	Power input	kW		.11	22			.15
	COP	kW/kW	4.		4.4			.47
	001	ICVV/ICVV	7.	J T	7.	17	7.	.71
Temp. range of	Indoor	D.B.	15.0~27.0 °C	^ (50~81 °E)	15.0~27.0 °C	2 (50~81 °E)	15.0~27.0.9	C (59~81 °F)
heating	Outdoor	W.B.	-20.0~15.5 °		-20.0~15.5 °			°C (-4~60 °F)
Indoor unit	Total capacity	VV.D.		door unit capacity	50~150% of outo			door unit capacity
connectable	Model / Quantity		P15~P2	50/2~50	P15~P2	50/2~50	P15~P2	250/2~50
Sound pressure le		dB <a>	68.5	/ 72.5	68.5	73.0	68.0	/ 71.5
(measured in aned								
Sound power level		dB <a>	86.0	/ 91.5	86.0	92.0	85.5	/ 90.5
(measured in aned								
Refrigerant piping		mm (in.)	28.58 (1-1		28.58 (1-1			1/8) Brazed
diameter	Low pressure	mm (in.)	41.28 (1-5	/8) Brazed	41.28 (1-5	/8) Brazed	41.28 (1-5	5/8) Brazed
Set Model								
Model					PURY-P450YNW-A (-BS)			PURY-P500YNW-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	315	315	315	315	315	295
		L/s	5,250	5,250	5,250	5,250	5,250	4,917
		cfm	11,123	11,123	11,123	11,123	11,123	10,416
	Control, Driving m	echanism	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor	Inverter-control, Di	rect-driven by motor
	Motor output	kW	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2	0.92 x 2
*5	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)
Compressor	Туре		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	rmetic compressor
·	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	10.9	12.4	12.4	12.4	12.4	13.0
	Case heater	kW	-	-	-	-	-	-
External finish			Pre-coated galvar	nized steel sheets	Pre-coated galvar	nized steel sheets	Pre-coated galva	nized steel sheets
			(+powder coatii		(+powder coatii			ing for -BS type)
				' 8/1 or similar>	<munsell 5y<="" td=""><td></td><td></td><td>Y 8/1 or similar></td></munsell>			Y 8/1 or similar>
External dimension	n HyWyD			1,858 (1,798 without		1,858 (1,798 without		1,858 (1,798 without
External dimension	II I IXVVXD	mm	legs) x 1,240 x 740	legs) x 1,240 x 740	legs) x 1,240 x 740	legs) x 1,240 x 740	legs) x 1,240 x 740	legs) x 1,750 x 740
				73-3/16 (70-13/16 without		73-3/16 (70-13/16 without		73-3/16 (70-13/16 without
		in.	legs) x 48-7/8 x 29-3/16		legs) x 48-7/8 x 29-3/16			legs) x 68-15/16 x 29-3/16
			10gs) x 40=1/0 x 23=3/10	1 10g3) X 40=110 X 23=3/10				r, High pressure switch
	High proceure pr		High procesure concer	High proceure quitab	High procesure concer			. High pressure switch
Protection	High pressure pro			High pressure switch				
Protection devices		otection	at 4.15 MP	a (601 psi)	at 4.15 MP	a (601 psi)	at 4.15 MF	Pa (601 psi)
	Inverter circuit (CO	otection	at 4.15 MP Over-heat protection, 0	Pa (601 psi) Over-current protection	at 4.15 MP Over-heat protection, 0	a (601 psi) Over-current protection	at 4.15 MF Over-heat protection,	Pa (601 psi) Over-current protection
	Inverter circuit (CO Compressor	otection	at 4.15 MP Over-heat protection, 0	a (601 psi)	at 4.15 MP Over-heat protection, 0	a (601 psi) Over-current protection -	at 4.15 MF Over-heat protection,	Pa (601 psi)
devices	Inverter circuit (CO Compressor Fan motor	otection MP./FAN)	at 4.15 MP Over-heat protection, 0	Pa (601 psi) Over-current protection	at 4.15 MP Over-heat protection, 0	a (601 psi) Over-current protection	at 4.15 MF Over-heat protection, -	Pa (601 psi) Over-current protection
devices Refrigerant	Inverter circuit (CO Compressor	MP./FAN)	at 4.15 MP Over-heat protection, (- - R410A x 8.0 kg (18 lbs)	Pa (601 psi) Over-current protection - R410A x 10.8 kg (24 lbs)	at 4.15 MP Over-heat protection, 0 - - R410A x 10.8 kg (24 lbs)	a (601 psi) Over-current protection - R410A x 10.8 kg (24 lbs)	at 4.15 MF Over-heat protection, - - R410A x 10.8 kg (24 lbs)	Pa (601 psi) Over-current protection R410A x 10.8 kg (24 lbs)
Refrigerant Net weight	Inverter circuit (CO Compressor Fan motor	otection MP./FAN)	at 4.15 MP Over-heat protection, 0 - - R410A x 8.0 kg (18 lbs) 273 (602)	Pa (601 psi) Over-current protection - R410A x 10.8 kg (24 lbs) 293 (646)	at 4.15 MP Over-heat protection, 0 - - R410A x 10.8 kg (24 lbs) 293 (646)	a (601 psi) Over-current protection - R410A x 10.8 kg (24 lbs) 293 (646)	at 4.15 MF Over-heat protection, - - R410A x 10.8 kg (24 lbs) 293 (646)	Pa (601 psi) Over-current protection - R410A x 10.8 kg (24 lbs) 337 (743)
Refrigerant Net weight Heat exchanger	Inverter circuit (CO Compressor Fan motor Type x original ch	MP./FAN) arge kg (lbs)	at 4.15 MP Over-heat protection, (- R410A x 8.0 kg (18 lbs) 273 (602) Salt-resistant cross	Pa (801 psi) Over-current protection - R410A x 10.8 kg (24 lbs) 293 (646) s fin & copper tube	at 4.15 MP Over-heat protection, (- R410A x 10.8 kg (24 lbs) 293 (646) Salt-resistant cross	a (601 psi) Over-current protection - R410A x 10.8 kg (24 lbs) 293 (646) s fin & copper tube	at 4.15 MF Over-heat protection, - R410A x 10.8 kg (24 lbs) 293 (646) Salt-resistant cros	Pa (601 psi) Over-current protection
Refrigerant Net weight Heat exchanger Pipe between unit	Inverter circuit (CO Compressor Fan motor Type x original ch	MP./FAN) arge kg (lbs)	at 4.15 MP Over-heat protection, 0 - - R410A x 8.0 kg (18 lbs) 273 (602) Salt-resistant cros: 22.2 (7/8) Brazed	Pa (601 psi) Over-current protection - R410A x 10.8 kg (24 lbs) 293 (646) s fin & copper tube 22.2 (7/8) Brazed	at 4.15 MP Over-heat protection, (- R410A x 10.8 kg (24 lbs) 293 (646) Salt-resistant cros: 22.2 (7/8) Brazed	a (601 psi) Diver-current protection - R410A x 10.8 kg (24 lbs) 293 (646) s fin & copper tube 22.2 (7/8) Brazed	at 4.15 MF Over-heat protection, - R410A x 10.8 kg (24 lbs) 293 (646) Salt-resistant cros 22.2 (7/8) Brazed	Pa (801 psi) Over-current protection
Refrigerant Net weight Heat exchanger Pipe between unit and distributor	Inverter circuit (CO Compressor Fan motor Type x original ch	MP./FAN) arge kg (lbs)	at 4.15 MP Over-heat protection, (- R410A x 8.0 kg (18 lbs) 273 (602) Salt-resistant cros: 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed	Pa (601 psi) Diver-current protection - R410A x 10.8 kg (24 lbs) 293 (646) 293 (646) 5 fin & copper tube 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed	at 4.15 MP Over-heat protection, (- R410A x 10.8 kg (24 lbs) 293 (646) Salt-resistant cross 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed	a (601 psi) Diver-current protection	at 4.15 MF Over-heat protection, - R410A x 10.8 kg (24 lbs) 293 (646) Salt-resistant cros 22.2 (7/8) Brazed	Pa (801 psi) Over-current protection
Refrigerant Net weight Heat exchanger Pipe between unit	Inverter circuit (CO Compressor Fan motor Type x original ch	MP./FAN) arge kg (lbs)	at 4.15 MP Over-heat protection, 0 - - R410A x 8.0 kg (18 lbs) 273 (602) Salt-resistant cros: 22.2 (7/8) Brazed	Pa (601 psi) Diver-current protection - R410A x 10.8 kg (24 lbs) 293 (646) 293 (646) 5 fin & copper tube 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed	at 4.15 MP Over-heat protection, (- R410A x 10.8 kg (24 lbs) 293 (646) Salt-resistant cros: 22.2 (7/8) Brazed	a (601 psi) Diver-current protection	at 4.15 MF Over-heat protection, - R410A x 10.8 kg (24 lbs) 293 (646) Salt-resistant cros 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed	Pa (601 psi) Over-current protection
Refrigerant Net weight Heat exchanger Pipe between unit and distributor	Inverter circuit (CO Compressor Fan motor Type x original ch	MP./FAN) arge kg (lbs)	at 4.15 MP Over-heat protection, (- R410A x 8.0 kg (18 lbs) 273 (602) Salt-resistant cros: 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed	Pa (601 psi) Diver-current protection - R410A x 10.8 kg (24 lbs) 293 (646) 293 (646) 5 fin & copper tube 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed	at 4.15 MP Over-heat protection, (R410A x 10.8 kg (24 lbs) 293 (646) Salt-resistant cross 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed Outdoor Twinning k Joint: CMYR160-J1	a (601 psi) Over-current protection	at 4.15 MF Over-heat protection, - R410A x 10.8 kg (24 lbs) 293 (646) Salt-resistant cros 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed	Pa (801 psi) Over-current protection
Refrigerant Net weight Heat exchanger Pipe between unit and distributor	Inverter circuit (CO Compressor Fan motor Type x original ch	MP./FAN) arge kg (lbs)	at 4.15 MP Over-heat protection, (R410A x 8.0 kg (18 lbs) 273 (602) Salt-resistant cros: 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed Outdoor Twinning k Joint: CMY-R160-J1	Pa (601 psi) Diver-current protection - R410A x 10.8 kg (24 lbs) 293 (646) 293 (646) 5 fin & copper tube 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed	at 4.15 MP Over-heat protection, (R410A x 10.8 kg (24 lbs) 293 (646) Salt-resistant cross 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed Outdoor Twinning k Joint: CMY-R160-J1	a (601 psi) Over-current protection	at 4.15 MF Over-heat protection, 	Pa (801 psi) Over-current protection

Notes:

*1,*2 Nominal conditions (subject to JIS B8615-2) + ErP Lot 21/6 calculation method to EN14825

,	, , , , , ,			
	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.)
	(011 DD/001 WD)	(93 1 DD/73 1 WD)		
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 Nominal heating conditions (subject to JIS B8615-2) Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.) Eurovent registered
*4 Cooling mode / Heating mode



^{*5} External static pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External static pressure option.

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

PURY-P YSNW-A(-BS)



Specifications

Model			PURY-P1000	YSNW-A (-BS)	PURY-P1050`	YSNW-A (-BS)	PURY-P1100`	YSNW-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	11:	3.0		8.0		4.0
(Nominal)		BTU/h		,600		,600		,100
(Hominal)	Power input	kW		.73		.73		.69
	EER	kW/kW		35	2.9		2.6	
	EER (ErP)*	kW/kW		27		04		81
Temp. range of	Indoor	W.B.		C (59~75 °F)		C (59~75 °F)		C (59~75 °F)
cooling	Outdoor	D.B.	-5.0~52.0 °C	(23~126 °F)	-5.0~52.0 °C	(23~126 °F)	-5.0~52.0 °C	(23~126 °F)
Heating capacity	,	2 kW	12	7.0	13	2.0	14	0.0
(Max)		BTU/h	433	,300	450	,400	477	,700
(max)	Power input	kW		.77		.52		.94
	COP	kW/kW	3.		3.3		2.9	
	COP (ErP)*	kW/kW		00		87		73
(Nomina	1) '	3 kW		3.0		8.0		4.0
		BTU/h	385	,600	402	,600	423	,100
	Power input	kW	25	.16	27	.05	29	.30
	COP	kW/kW	4.	49	4.	36	4.	23
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.		C (-4~60 °F)		°C (-4~60 °F)		°C (-4~60 °F)
Indoor unit	Total capacity			door unit capacity		door unit capacity		door unit capacity
connectable	Model / Quantit	У	P15~P2	50/2~50	P15~P2	250/3~50	P15~P2	250/3~50
Sound pressure le	evel	ID 4A	66.5	/ 67.5	60.0	/ 73.0	60.0	/ 73.0
(measured in ane	choic room) *	dB <a>	00.5	/ 6/.5	08.0	/ /3.0	69.0	/ /3.0
Sound power leve								
(measured in ane		dB <a>	85.0	/ 87.0	86.0	/ 92.0	86.5	/ 92.0
	0110101001111	•	20 50 /4 4	(0) Drozed	24.02./4.2	1/0\ D====d	24.02.(4.2	1/0\ Dramad
Refrigerant piping		mm (in.)		/8) Brazed		8/8) Brazed		8/8) Brazed
diameter	Low pressure	mm (in.)	41.28 (1-5	/8) Brazed	41.28 (1-5	i/8) Brazed	41.28 (1-5	5/8) Brazed
Set Model								
Model			PURY-P500YNW-A (-BS)	PURY-P500YNW-A (-BS)	PURY-P500YNW-A (-BS)	PURY-P550YNW-A (-BS)*	PURY-P550YNW-A (-BS)*	PURY-P550YNW-A (-BS)*
FAN	Type x Quantity	/	Propeller fan x 2	Propeller fan x 2				
	Air flow rate	m³/min	295	295	295	410	410	410
	7 111 110 11 1010	L/s	4,917	4,917	4,917	6,833	6,833	6,833
		cfm	10,416	10.416	10.416	14.477	14.477	14.477
	OtI D-ii							
	Control, Driving			ect-driven by motor		rect-driven by motor		rect-driven by motor
	Motor output	kW	0.92 x 2	0.92 x 2				
*5	External static	oress.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)				
Compressor	Туре		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
	Starting method	1	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	13.0	13.0	13.0	14.3	14.3	14.3
	Case heater	kW	-	-	-	-	-	-
External finish	Case Heater	KVV						
External linish				nized steel sheets		nized steel sheets		nized steel sheets
				ng for -BS type)		ng for -BS type)		ng for -BS type)
				' 8/1 or similar>		/ 8/1 or similar>		/ 8/1 or similar>
External dimension	n HxWxD		1,858 (1,798 without	1,858 (1,798 without				
		mm	legs) x 1,750 x 740	legs) x 1,750 x 740				
			73-3/16 (70-13/16 without	73-3/16 (70-13/16 without		73-3/16 (70-13/16 without		73-3/16 (70-13/16 without
		in.			legs) x 68-15/16 x 29-3/16			
Protection	Treat	4 4		High pressure switch		High pressure switch		High pressure switch
	High pressure p	protection						
devices				a (601 psi)		Pa (601 psi)		Pa (601 psi)
	Inverter circuit (C	OMP./FAN)	Over-heat protection,	Over-current protection	Over-heat protection,	Over-current protection	Over-heat protection,	Over-current protection
	Compressor		-	-	-	-	-	-
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original	charge	R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 10 8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)
Net weight	1. JPO A Original	kg (lbs)		337 (743)	337 (743)	337 (743)	337 (743)	337 (743)
		rg (ibs)					(-)	
Heat exchanger	1			s fin & copper tube		s fin & copper tube		s fin & copper tube
Pipe between unit		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
and distributor	Low pressure	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed				
Optional parts			Outdoor Twinning k	it: CMY-R200VBK4	Outdoor Twinning I	kit: CMY-R200VBK4	Outdoor Twinning I	kit: CMY-R200VBK4
			Joint: CMY-R160-J1			Y-Y102LS-G2,CMY-R160-J1		Y-Y102LS-G2,CMY-R160-J1
				: CMB-P1016V-KA		r: CMB-P1016V-KA		r: CMB-P1016V-KA
				r: CMB-P104V-KB		r: CMB-P104V-KB		r: CMB-P104V-KB
			Cub DC CONTROller		Cub DC COITHOILE	. OIND-1 10-11-11		. OIND-1 10+V-IVD

Notes:

^{*1,*2} Nominal conditions (subject to JIS B8615-2) + ErP Lot 21/6 calculation method to EN14825

	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 Nominal heating conditions (subject to JIS B8615-2) Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)



Fige length. 7.3 In (24-3) to (1.7), Everet uniteracte. 0 Int (0 ft.)

Eurovent registered

*4 Cooling mode / Heating mode

*5 External static pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmHzO, 6.1mmHzO, 8.2mmHzO).

Consult your dealer about the specification when setting External static pressure option.

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

*22HP (P550) can be used only in combination with others.

PURY-EP YNW-A(-BS)



Specifications

Model			PURY-EP200YNW-A (-BS)		PURY-EP300YNW-A (-BS)	
Power source					3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity	*1		22.4	28.0	33.5	40.0
(Nominal)		BTU/h	76,400	95,500	114,300	136,500
	Power input	kW	5.38	7.00	8.98	10.49
	EER	kW/kW	4.16	4.00	3.73	3.81
Tames same of	EER (ErP)+	kW/kW	5.29	4.98	4.53 15.0~24.0 °C (59~75 °F)	4.54 15.0~24.0 °C (59~75 °F)
Temp. range of cooling	Indoor Outdoor	W.B. D.B.	15.0~24.0 °C (59~75 °F) -5.0~52.0 °C (23~126 °F)	15.0~24.0 °C (59~75 °F) -5.0~52.0 °C (23~126 °F)	-5.0~52.0 °C (23~126 °F)	-5.0~52.0 °C (23~126 °F)
Heating capacity	*2		25.0 25.0 C (23~126 F)	31.5	37.5	-5.0~52.0 C (25~126 F) 45.0
(Max)	2	BTU/h	85,300	107,500	128.000	153,500
(IVIAX)	Power input	kW	5.88	7.59	9.94	11.59
	COP	kW/kW	4.25	4.15	3.77	3.88
	COP (ErP)+	kW/kW	5.47	5.26	4.48	4.39
/Nomine	I) EUROVENT *3		22.4	28.0	33.5	40.0
(NOMINA	II) EUROVENT 3	BTU/h	76,400	95,500	114,300	136,500
	Power input		3.95	5.23		8.78
	COP	kW	5.67	5.35	6.80	4.55
	COP	kW/kW	5.67	5.35	4.92	4.55
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	, vv.b.	50~150%	50~150%	50~150%	50~150%
connectable	Model / Quantity		P15~P250/1~20	P15~P250/1~25	P15~P250/1~30	P15~P250/1~35
Sound pressure le						
(measured in ane Sound power leve	choic room) *4	dB <a>	59.0 / 59.0	60.5 / 61.0	61.0 / 67.0	62.5 / 64.0
(measured in ane	choic room) *4		76.0 / 78.0	78.5 / 80.0	80.0 / 86.5	81.0 / 83.0
Refrigerant piping		mm (in.)	15.88 (5/8) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed
diameter	Low pressure	mm (in.)	19.05 (3/4) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2
	Air flow rate	m³/min	170	185	240	250
		L/s	2,833	3,083	4,000	4,167
		cfm	6,003	6,532	8,474	8,828
	Control, Driving m				Inverter-control, Direct-driven by motor	
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.46 x 2
	External static pr	ess.	0 Pa (0 mmH₂O)			
Compressor	Туре		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.6	7.0	7.9	10.2
	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>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>
External dimension	n HxWxD	mm	1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 1,240 x 740
					73-3/16 (70-13/16 without legs) x	
		in.	36-1/4 x 29-3/16	36-1/4 x 29-3/16	36-1/4 x 29-3/16	48-7/8 x 29-3/16
Protection devices	High pressure pro	otection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (CO	MP./FAN)	Over-heat protection, Over-current protection			
	Compressor		-	-	-	-
	Fan motor		_		-	-
Refrigerant	Type x original ch	narne	R410A x 5.2 kg (12 lbs)	R410A x 5.2 kg (12 lbs)	R410A x 5.2 kg (12 lbs)	R410A x 8.0 kg (18 lbs)
Net weight	Type x original ci	kg (lbs)	234 (516)	234 (516)	236 (521)	279 (616)
Heat exchanger		rig (ibo)	Salt-resistant cross fin & aluminium tube			
Optional parts			Significant Mayor	Joint: CMY-R160-J1 BC controller: CMB-	P104,106,108, 1016V-J 12,1016V-JA,	, and the second
				Sub BC controller: C		

Notes:

, 2 Normal conditions (Subject to the 20010 2)								
	Indoor	Outdoor	Pipe length	Level difference				
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m (24-9/16ft.)	0m (0ft.)				
Cooling	(81°F DB/66°F WB)	(95°F DB/75°F WB)	7.5111 (24-9/1011.)	OIII (OIL.)				
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} Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
Eurovent registered
*4 Cooling mode / Heating mode
*5 External static pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).
Consult your dealer about the specification when setting External static pressure option.
*Due to continuing improvement, above specification may be subject to change without notice.

PURY-EP YNW-A(-BS)



Specifications

Model			PURY-EP400YNW-A (-BS)	PURY-EP450YNW-A (-BS)	PURY-EP500YNW-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)		BTU/h	153,500	170,600	191,100
	Power input	kW	12.82	13.55	16.09
	EER	kW/kW	3.51	3.69	3.48
	EER (ErP)+	kW/kW	3.97	4.66	4.41
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
(Max)		BTU/h	170,600	191,100	215,000
,	Power input	kW	13.26	15.86	15.14
	COP	kW/kW	3.77	3.53	4.16
	COP (ErP) ⁺	kW/kW	3.85	4.26	4.43
(Nomina		kW	45.0	50.0	56.0
(140111111	,	BTU/h	153,500	170,600	191,100
	Power input	kW	10.24	10.01	11.78
	COP	kW/kW	4.39	4.99	4.75
	COF	KVV/KVV	4.55	4.99	4.73
Temp. range of	Indoor	D.B.	15.0~27.0 °C (59~81 °F)	15.0~27.0 °C (59~81 °F)	15.0~27.0 °C (59~81 °F)
	Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)	-20.0~15.5 °C (-4~60 °F)	-20.0~15.5 °C (-4~60 °F)
heating Indoor unit	Total capacity	VV.D.	-20.0~15.5 °C (-4~60 °F) 50~150%	-20.0~15.5 °C (-4~60 °F) 50~150%	50~150%
	Model / Quantity			P15~P250/1~45	P15~P250/1~50
connectable			P15~P250/1~40	P15~P250/1~45	P15~P250/1~50
Sound pressure le (measured in ane	choic room) *4	dB <a>	65.0 / 69.0	65.5 / 70.0	63.5 / 64.5
Sound power leve (measured in ane		dB <a>	83.0 / 88.0	83.0 / 89.0	82.0 / 84.0
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
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Air flow rate	m³/min	315	315	295
		L/s	5,250	5,250	4.917
		cfm	11,123	11,123	10,416
	Control, Driving m		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
	Motor output kW		0.46 x 2	0.46 x 2	0.92 x 2
*#	External static pr		0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
Cop. Cocco.	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	10.9	12.4	13.0
	Case heater	kW	-	-	-
External finish	Oubo Houtor	1000	Pre-coated galvanized steel sheets	Pre-coated galvanized steel sheets	Pre-coated galvanized steel sheets
LAterrial Illian			(+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	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,750 x 740
External almonoid	ATTIXTED		73-3/16 (70-13/16 without legs) x	73-3/16 (70-13/16 without legs) x	73-3/16 (70-13/16 without legs) x
	Treat	in.	48-7/8 x 29-3/16	48-7/8 x 29-3/16	68-15/16 x 29-3/16
Protection devices	High pressure pr		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-heat protection,	Over-heat protection,
			Over-current protection	Over-current protection	Over-current protection
	Compressor		-	-	-
	Fan motor		-	-	-
Refrigerant	Type x original ch	narge	R410A x 8.0 kg (18 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)
Net weight		kg (lbs)	282 (622)	306 (675)	345 (761)
Heat exchanger			Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube
Optional parts				Joint: CMY-R160-J1	
				Main BC controller:	
				CMB-P108,1012,1016V-JA,	
				CMB-P1016V-KA	
				Sub BC controller: CMB-P104V-KB	

Notes:

	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} Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
Eurovent registered
*4 Cooling mode / Heating mode
*5 External static pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmHzO, 6.1mmHzO, 8.2mmHzO).
Consult your dealer about the specification when setting External static pressure option.
*Due to continuing improvement, above specification may be subject to change without notice.

PURY-EP YSNW-A(-BS)



Sub BC controller: CMB-P104V-KB

Specifications

Model			PURY-EP400	YSNW-A (-BS)	PURY-EP450	YSNW-A (-BS)	PURY-EP500`	YSNW-A (-BS)
Power source				400-415 V 50/60 Hz		-400-415 V 50/60 Hz		400-415 V 50/60 Hz
Cooling capacity	1	*1 kW		5.0		0.0		3.0
(Nominal)		BTU/h		,500		,600		,100
(11011111111)	Power input	kW		1.13		.62		.43
	EER	kW/kW		04		.96		88
	EER (ErP)+	kW/kW		13		98		83
Tanan sanas of		W.B.		C (59~75 °F)		96 C (59∼75 °F)		C (59~75 °F)
Temp. range of	Indoor							
cooling	Outdoor	D.B.		(23~126 °F)		(23~126 °F)		(23~126 °F)
Heating capacity	,	*2 kW		0.0		6.0		3.0
(Max)		BTU/h		,600		,100		,000
	Power input	kW		2.13		.75		.63
	COP	kW/kW		12		07	4.0	
	COP (ErP)+	kW/kW		30		20		10
(Nomina	ıl) '	*3 kW		5.0		0.0	56	3.0
		BTU/h	153	,500	170	,600	191	,100
	Power input	kW	8.	17	9.	35	10	.78
	COP	kW/kW		50		34	5	19
	00.	1000/1000		-		<u> </u>	0.	
Temp, range of	Indoor	D.B.	15 0~27 0 °	C (59~81 °F)	15 0~27 0 °	C (59~81 °F)	15 0~27 0 °0	C (59~81 °F)
heating	Outdoor	W.B.		C (-4~60 °F)		°C (-4~60 °F)		C (-4~60 °F)
Indoor unit	Total capacity	144.0.		door unit capacity		door unit capacity	50~150% of outo	
connectable	Model / Quanti	ts.		50/1~40		250/1~45		50/1~50
		ty	F13~F2	30/1~40	F13~F2	:50/1~45	F 13~F2	30/1~30
Sound pressure le		*4 dB <a>	62.0	/ 62.0	63.0	/ 63.5	63.5	/ 64.0
(measured in ane		-4						
Sound power leve		dB <a>	79.0	/ 81.0	80.5	/ 82.5	81.5	/ 83.0
(measured in aned	0110101001111	-4						
Refrigerant piping		mm (in.		B) Brazed		B) Brazed		B) Brazed
diameter	Low pressure	mm (in.	28.58 (1-1	/8) Brazed	28.58 (1-1	/8) Brazed	28.58 (1-1	/8) Brazed
Set Model								
Model			PURY-EP200YNW-A (-BS)	PURY-EP200YNW-A (-BS)	PURY-EP200YNW-A (-BS)	PURY-EP250YNW-A (-BS)	PURY-EP250YNW-A (-BS)	PURY-EP250YNW-A (-BS)
FAN	Type x Quantity	у	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m³/min	170	170	170	185	185	185
		L/s	2.833	2,833	2.833	3.083	3.083	3.083
		cfm	6.003	6.003	6.003	6.532	6.532	6.532
	Control, Driving	mechanisn	Inverter-control. Dir	ect-driven by motor	Inverter-control, Di	rect-driven by motor	Inverter-control. Dir	ect-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
*5	External static		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	ргозз.		metic compressor		metic compressor		metic compressor
Compressor	Starting metho	۵.	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
						7.0		7.0
	Motor output	kW	5.6	5.6	5.6		7.0	-
	Case heater	kW		-		-		-
External finish				nized steel sheets		nized steel sheets		nized steel sheets
				ng for -BS type)	(+powder coati	ng for -BS type)		ng for -BS type)
				' 8/1 or similar>		/ 8/1 or similar>		' 8/1 or similar>
External dimensio	n HxWxD	mm		1,858 (1,798 without		1,858 (1,798 without		1,858 (1,798 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.		73-3/16 (70-13/16 without		73-3/16 (70-13/16 without		
			legs) x 36-1/4 x 29-3/16	legs) x 36-1/4 x 29-3/16	legs) x 36-1/4 x 29-3/16	legs) x 36-1/4 x 29-3/16	legs) x 36-1/4 x 29-3/16	legs) x 36-1/4 x 29-3/16
Protection	High pressure	protection	High pressure sensor	, High pressure switch	High pressure sensor	, High pressure switch	High pressure sensor	, High pressure switch
devices			at 4.15 MF	Pa (601 psi)	at 4.15 MF	Pa (601 psi)	at 4.15 MP	Pa (601 psi)
	Inverter circuit (C	COMP./FAN	Over-heat protection.	Over-current protection	Over-heat protection.	Over-current protection	Over-heat protection, (Over-current protection
	Compressor		-	-			_	_
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original	charge				R410A x 5.2 kg (12 lbs)		R410A x 5 2 kg (12 lbe
Net weight	I Type A Ungillal	kg (lbs)		234 (516)	234 (516)	234 (516)	234 (516)	234 (516)
		vg (ins)		- ()				. ()
Heat exchanger	lue i			fin & aluminium tube		fin & aluminium tube		fin & aluminium tube
Pipe between unit		mm (in.		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	22.2 (7/8) Brazed	22.2 (7/8) Brazed
Optional parts			Outdoor Twinning I	kit: CMY-R100VBK4		kit: CMY-R100VBK4	Outdoor Twinning k	kit: CMY-R100VBK4
			Joint: CMY-R160-J1		Joint: CMY-R160-J1		Joint: CMY-R160-J1	
			Main BC controller: CMB-P108,	1012,1016V-JA,CMB-P1016V-KA	Main BC controller: CMB-P108,	1012,1016V-JA,CMB-P1016V-KA	Main BC controller: CMB-P108,1	1012,1016V-JA,CMB-P1016V-KA
			Sub PC controllo		Sub PC controllo		Sub PC controller	

Sub BC controller: CMB-P104V-KB

Notes:

*1,*2 Nominal conditions (subject to JIS B8615-2) + ErP Lot 21/6 calculation method to EN14825

	Indoor	Outdoor	Pipe length	Level difference	
Cline	27°C DB/19°C WB	35°C DB/24°C WB	7.5 (04.0/406)	0m (0ft.)	
Cooling	(81°F DB/66°F WB)	(95°F DB/75°F WB)	7.5m (24-9/16ft.)		
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)	

Sub BC controller: CMB-P104V-KB

Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered



^{*3} Nominal heating conditions (subject to JIS B8615-2)

Eurovent registered

*4 Cooling mode / Heating mode

*5 External static pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External static pressure option.

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

PURY-EP YSNW-A(-BS)



Specifications

Model			PURY-EP550\	'SNW-A (-BS)	PURY-EP600`	YSNW-A (-BS)	PURY-EP650	(SNW-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	0.0	73	3.0
(Nominal)		BTU/h	215,	000	235	,400	249	100
	Power input	kW	16.	80	19	.06	19.	.94
	EER	kW/kW	3.7	' 5	3.	62	3.0	66
	EER (ErP)+	kW/kW	4.0			39	4.4	
Temp. range of	Indoor	W.B.	15.0~24.0 °C			C (59~75 °F)	15.0~24.0 °C	
cooling	Outdoor	D.B.	-5.0~52.0 °C		-5.0~52.0 °C		-5.0~52.0 °C	
Heating capacity	*2	kW	-5.0 52.0 69			6.5	-5.0 52.0 0	
(Max)	2	BTU/h	235.			,000	278	
	Power input	kW	17.			.90	21.	
	COP	kW/kW	3.8		3.0		3.7	
	COP (ErP) ⁺	kW/kW	4.			35	4.:	
(Nominal		kW	63			9.0	73	
(Nominal	1)		215.			,400	249	
	Dt	BTU/h						
'	Power input	kW	12.			.46	15.	
'	COP	kW/kW	4.9	98	4.	77	4.:	59
Tomp rosss of	Indoor	D.B.	15.0~27.0 °C	C (E001 °E)	15.0.07.00	C (E001 °F)	15.0~27.0 °C	C (E001 °F)
Temp. range of						C (59~81 °F)		
heating	Outdoor	W.B.	-20.0~15.5 °			C (-4~60 °F)	-20.0~15.5 °	
Indoor unit	Total capacity		50~150% of outd			loor unit capacity	50~150% of outo	
connectable	Model / Quantity		P15~P2	50/2~50	P15~P2	50/2~50	P15~P2	50/2~50
Sound pressure le		dB <a>	64.0	68.0	64.0	70.0	65.0	69.0
(measured in anec			2 110 /		21.0		20.07	
Sound power level		dB <a>	82.5	87.5	83.0	/ 89.5	83.5	88.5
(measured in anec		ub //					00.07	
Refrigerant piping	High pressure	mm (in.)		1/8 (28.58) Brazed for		1/8 (28.58) Brazed for	28.58 (1-1	/8) Brazed
diameter		` '	the part that e		the part that e		<u> </u>	
	Low pressure	mm (in.)	28.58 (1-1	/8) Brazed	28.58 (1-1	/8) Brazed	28.58 (1-1	/8) Brazed
Set Model					1			
Model				PURY-EP300YNW-A (-BS)		PURY-EP300YNW-A (-BS)		PURY-EP350YNW-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	185	240	240	240	240	250
		L/s	3,083	4,000	4,000	4,000	4,000	4,167
		cfm	6,532	8,474	8,474	8,474	8,474	8,828
	Control, Driving m	echanism		ect-driven by motor		ect-driven by motor		ect-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.46 x 2
*5	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 mmH₂O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Туре		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	1.3.67	7.0					Inverter
		kW	7.0	7.9	7.9	7.9	7.9	Inverter 10.2
	Case heater	kW	7.0	7.9				
External finish	Case heater		- Pre-coated galvar	-	7.9		7.9	
External finish	Case heater		-	- nized steel sheets	7.9 - Pre-coated galva	7.9	7.9	10.2 - nized steel sheets
External finish	Case heater		- Pre-coated galvar	rized steel sheets	7.9 - Pre-coated galva (+powder coati	7.9 - nized steel sheets	7.9 - Pre-coated galvar	10.2 - nized steel sheets ng for -BS type)
External finish External dimension		kW	- Pre-coated galvar (+powder coatir <munsell 5y<="" td=""><td>rized steel sheets</td><td>7.9 - Pre-coated galva (+powder coati <munsell 5y<="" td=""><td>7.9 - nized steel sheets ng for -BS type)</td><td>7.9 - Pre-coated galvar (+powder coatir <munsell 5y<="" td=""><td>10.2 - nized steel sheets ng for -BS type) (8/1 or similar></td></munsell></td></munsell></td></munsell>	rized steel sheets	7.9 - Pre-coated galva (+powder coati <munsell 5y<="" td=""><td>7.9 - nized steel sheets ng for -BS type)</td><td>7.9 - Pre-coated galvar (+powder coatir <munsell 5y<="" td=""><td>10.2 - nized steel sheets ng for -BS type) (8/1 or similar></td></munsell></td></munsell>	7.9 - nized steel sheets ng for -BS type)	7.9 - Pre-coated galvar (+powder coatir <munsell 5y<="" td=""><td>10.2 - nized steel sheets ng for -BS type) (8/1 or similar></td></munsell>	10.2 - nized steel sheets ng for -BS type) (8/1 or similar>
			- Pre-coated galvar (+powder coatir <munsell 5y<="" td=""><td>- nized steel sheets ng for -BS type) 8/1 or similar></td><td>7.9 - Pre-coated galva (+powder coati <munsell 5y<="" td=""><td>7.9 nized steel sheets ng for -BS type) (8/1 or similar></td><td>7.9 - Pre-coated galvar (+powder coatir <munsell 5y<="" td=""><td>10.2 - nized steel sheets ng for -BS type) (8/1 or similar></td></munsell></td></munsell></td></munsell>	- nized steel sheets ng for -BS type) 8/1 or similar>	7.9 - Pre-coated galva (+powder coati <munsell 5y<="" td=""><td>7.9 nized steel sheets ng for -BS type) (8/1 or similar></td><td>7.9 - Pre-coated galvar (+powder coatir <munsell 5y<="" td=""><td>10.2 - nized steel sheets ng for -BS type) (8/1 or similar></td></munsell></td></munsell>	7.9 nized steel sheets ng for -BS type) (8/1 or similar>	7.9 - Pre-coated galvar (+powder coatir <munsell 5y<="" td=""><td>10.2 - nized steel sheets ng for -BS type) (8/1 or similar></td></munsell>	10.2 - nized steel sheets ng for -BS type) (8/1 or similar>
		kW	Pre-coated galvar (+powder coatin <munsell 5y<br="">1,858 (1,798 without legs) x 920 x 740</munsell>	rized steel sheets ag for -BS type) 8/1 or similar> 1,858 (1,798 without	7.9 Pre-coated galva (+powder coati <munsell (1,798="" 1,858="" 5y="" 740<="" 920="" legs)="" td="" without="" x=""><td>7.9 - nized steel sheets ng for -BS type) (8/1 or similar> 1,858 (1,798 without</td><td>7.9 Pre-coated galvar (+powder coatin <munsell (1,798="" 1,858="" 5y="" 740<="" 920="" legs)="" td="" without="" x=""><td>10.2</td></munsell></td></munsell>	7.9 - nized steel sheets ng for -BS type) (8/1 or similar> 1,858 (1,798 without	7.9 Pre-coated galvar (+powder coatin <munsell (1,798="" 1,858="" 5y="" 740<="" 920="" legs)="" td="" without="" x=""><td>10.2</td></munsell>	10.2
		kW	- Pre-coated galvar (+powder coatir <munsell 57<br="">1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without</munsell>	- nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without	7.9	7.9 -inized steel sheets ng for -BS type) '8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without	7.9	10.2
		kW mm in.	Pre-coated galvar (+powder coatin <munsell 5y<br="">1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16</munsell>	ized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16	7.9 Pre-coated galva (+powder coati	7.9 -inized steel sheets ng for -BS type) '8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without	7.9	10.2 - nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16
External dimension	n HxWxD	kW mm in.	Pre-coated galvar (+powder coatin <munsell 5y<br="">1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16</munsell>	nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 (70-13/16) legs) x 36-1/4 x 29-3/16 High pressure switch	7.9 Pre-coated galva (+powder coati	7.9 nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 1,858 (3,798 without legs) x 36-1/4 x 29-3/16	7.9	10.2
External dimension	n HxWxD	mm in.	Pre-coated galvar (+powder coating the powder the powder coating the powder coating the powder coaten the powder coa	inized steel sheets g for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch a (601 psi)	7.9 Pre-coated galva (+powder coati	7.9 nized steel sheets ng for -BS type) 8/1 or similar- 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch a (601 psi)	7.9 Pre-coated galvat (+powder coating coatin	10.2
External dimension	n HxWxD High pressure pre	mm in.	Pre-coated galvar (+powder coating the powder the powder coating the powder coating the powder coaten the powder coa	inized steel sheets g for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch a (601 psi)	7.9 Pre-coated galva (+powder coati	7.9 nized steel sheets ng for -BS type) 8/1 or similar- 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch a (601 psi)	7.9 Pre-coated galvar (+powder coating coatin	10.2
External dimension	n HxWxD High pressure pro Inverter circuit (CO Compressor	mm in.	Pre-coated galvar (+powder coating (+pow	nized steel sheets g for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch a (601 psi) Over-current protection	7.9 Pre-coated galva (+powder coati	7.9 nized steel sheets ng for -BS type) 8/1 or similar- 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch a (601 psi) Over-current protection	7.9 Pre-coated galvat (+powder coating coatin	10.2
External dimension Protection devices	n HxWxD High pressure pre- Inverter circuit (CO Compressor Fan motor	mm in. otection MP./FAN)	Pre-coated galvar (+powder coatin (+powder coa	nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch a (601 psi) Over-current protection	7.9 Pre-coated galva (+powder coati	7.9 -inized steel sheets ing for -BS type) 8/1 or similar- 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch a (601 psi) Diver-current protection -	7.9 Pre-coated galvar (+powder coating coatin	10.2 nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch a (601 psi) Over-current protection
External dimension Protection devices Refrigerant	n HxWxD High pressure pro Inverter circuit (CO Compressor	mm in. otection MP/FAN)	Pre-coated galvar (+powder coatin (+powder coa	nized steel sheets g for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch a (601 psi) Over-current protection	7.9 Pre-coated galva (+powder coati	7.9 nized steel sheets ng for -BS type) 8/1 or similar- 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch a (601 psi) Over-current protection R410A x 5.2 kg (12 lbs)	7.9 Pre-coated galvar (+powder coating coatin	10.2 nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch a (601 psi) Over-current protection - R410A x 8.0 kg (18 lbs)
External dimension Protection devices Refrigerant Net weight	n HxWxD High pressure pre- Inverter circuit (CO Compressor Fan motor	mm in. otection MP./FAN)	Pre-coated galvar (+powder coatin (+powder coatin (-4mUNSELL 5Y 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure sensor, at 4.15 MP Over-heat protection, (-2mu) construction (-2mu) constructi	nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch a (601 psi) Over-current protection - R410A x 5.2 kg (12 lbs) 236 (521)	7.9 Pre-coated galva (+powder coati	7.9 nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch a (601 psi) Over-current protection R410A x 5.2 kg (12 lbs) 236 (521)	7.9 Pre-coated galvar (+powder coating services services services (+powder services (+powder services services (+powder	10.2 nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch a (601 psi) Over-current protection - R410A x 8.0 kg (18 lbs) 279 (616)
External dimension Protection devices Refrigerant Net weight Heat exchanger	n HxWxD High pressure pre- Inverter circuit (CO Compressor Fan motor Type x original ch	mm in. stection MP/FAN) harge kg (lbs)	Pre-coated galvar (+powder coatii - 4MUNSELL 5Y 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure sensor, at 4.15 MP Over-heat protection, (0	nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch a (601 psi) Over-current protection	7.9 Pre-coated galva (+powder coati	7.9 nized steel sheets ng for -BS type) 8/1 or similar- 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch a (601 psi) Dver-current protection R410A x 5.2 kg (12 lbs) 236 (521) fin & aluminium tube	7.9 Pre-coated galvar (+powder coating coatin	10.2 nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch a (601 psi) Over-current protectio
External dimension Protection devices Refrigerant Net weight Heat exchanger Pipe between unit	n HxWxD High pressure pre- Inverter circuit (CO Compressor Fan motor Type x original ch	mm in. otection MP/FAN) marge kg (lbs) mm (in.)	Pre-coated galvar (+powder coatin cand cand cand cand cand cand cand can	nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 7-3-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch a (601 psi) Over-current protection - R410A x 5.2 kg (12 lbs) 236 (521) in & aluminium tube 19.05 (3/4) Brazed	7.9 Pre-coated galva (+powder coati	7.9	7.9 Pre-coated galvar (+powder coating coatin	10.2 nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch a (601 psi) Over-current protection R410A x 8.0 kg (18 lbs) 279 (616) fin & aluminium tube 19.05 (3/4) Brazed
External dimension Protection devices Refrigerant Net weight Heat exchanger Pipe between unit and distributor	n HxWxD High pressure pre- Inverter circuit (CO Compressor Fan motor Type x original ch	mm in. stection MP/FAN) harge kg (lbs)	Pre-coated galvar (+powder coatin (+powder coatin (-powder coa	nized steel sheets g for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch a (601 psi) Over-current protection - R410A x 5.2 kg (12 lbs) 236 (521) in & aluminium tube 19.05 (3/4) Brazed 22.2 (7/8) Brazed	7.9 Pre-coated galva (+powder coati (+powder co	7.9	7.9 Pre-coated galvar (+powder coatin MUNSELL 5Y 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure sensor, at 4.15 MP Over-heat protection, (R410A x 5.2 kg (12 lbs) 236 (521) Salt-resistant cross 19.05 (3/4) Brazed 22.2 (7/8) Brazed	10.2 nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch a (601 psi) Over-current protection R410A x 8.0 kg (18 lbs) 279 (616) fin & aluminium tube 19.05 (3/4) Brazed 28.58 (1-1/8) Brazed
External dimension Protection devices Refrigerant Net weight Heat exchanger Pipe between unit	n HxWxD High pressure pre- Inverter circuit (CO Compressor Fan motor Type x original ch	mm in. otection MP/FAN) marge kg (lbs) mm (in.)	Pre-coated galvar (+powder coatin (+powder coatin - MUNSELL 5Y 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure sensor, at 4.15 MP Over-heat protection, (-R410A x 5.2 kg (12 lbs) 234 (516) Salt-resistant cross 19.05 (3/4) Brazed 22.2 (7/8) Brazed Outdoor Twinning k	nized steel sheets g for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch a (601 psi) Over-current protection - R410A x 5.2 kg (12 lbs) 236 (521) in & aluminium tube 19.05 (3/4) Brazed 22.2 (7/8) Brazed	7.9 Pre-coated galva (+powder coati	7.9	7.9 Pre-coated galvar (+powder coating specified spe	10.2 nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch a (601 psi) Over-current protection R410A x 8.0 kg (18 lbs) 279 (616) in & aluminium tube 19.05 (3/4) Brazed 28.58 (1-1/8) Brazed
External dimension Protection devices Refrigerant Net weight Heat exchanger Pipe between unit and distributor	n HxWxD High pressure pre- Inverter circuit (CO Compressor Fan motor Type x original ch	mm in. otection MP/FAN) marge kg (lbs) mm (in.)	Pre-coated galvar (+powder coatin +fpowder coatin +fpowder coatin +fpowder coatin +fpowder coatin +fpowder +fpo	nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch a (601 psi) Diver-current protection R410A x 5.2 kg (12 lbs) 236 (521) in & aluminium tube 19.05 (3/4) Brazed 22.2 (7/8) Brazed it: CMY-R100VBK4	7.9 Pre-coated galva (+powder coati	7.9	7.9 Pre-coated galvar (+powder coating coatin	10.2 nized steel sheets ng for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch a (601 psi) Over-current protection
External dimension Protection devices Refrigerant Net weight Heat exchanger Pipe between unit and distributor	n HxWxD High pressure pre- Inverter circuit (CO Compressor Fan motor Type x original ch	mm in. otection MP/FAN) marge kg (lbs) mm (in.)	Pre-coated galvar (+powder coatin +fpowder coatin +fpowder coatin +fpowder coatin +fpowder coatin +fpowder +fpo	nized steel sheets g for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 920 x 740 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16 High pressure switch a (601 psi) Over-current protection - R410A x 5.2 kg (12 lbs) 236 (521) in & aluminium tube 19.05 (3/4) Brazed 22.2 (7/8) Brazed tit CMY-R100VBK4	7.9 Pre-coated galva (+powder coati	7.9	7.9 Pre-coated galvar (+powder coating specified spe	10.2 nized steel sheets g for -BS type) 8/1 or similar> 1,858 (1,798 without legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch a (601 psi) Dver-current protection - R410A x 8.0 kg (18 lbs) 279 (616) in & aluminium tube 19.05 (3/4) Brazed 28.58 (1-1/8) Brazed it: CMY-R100VBK4

Notes:

*1.*2 Nominal conditions (subject to JIS B8615-2) + ErP Lot 21/6 calculation method to EN14825

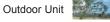
٠,		()				
·		Indoor	Outdoor	Pipe length	Level difference	
	Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)	
	Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)	

*3 Nominal heating conditions (subject to JIS B8615-2) Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)

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

Eurovent registered

*4 Cooling mode / Heating mode



^{*5} External static pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External static pressure option.

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

PURY-EP YSNW-A(-BS)



Specifications

Model			PURY-EP700\		PURY-EP750		PURY-EP800`	
Power source				400-415 V 50/60 Hz	3-phase 4-wire 380-	400-415 V 50/60 Hz		400-415 V 50/60 Hz
Cooling capacity	*1	kW	80	0.0	85	5.0	90	0.0
(Nominal)		BTU/h	273	,000	290	000	307	,100
	Power input	kW	21.	62	23.	94		.47
	EER	kW/kW	3.	70	3.	55	3.	40
	EER (ErP)+	kW/kW	4.4	40	4.	13	3.	85
Temp. range of	Indoor	W.B.	15.0~24.0 °C	C (59~75 °F)	15.0~24.0 °C	C (59~75 °F)	15.0~24.0 °C	C (59~75 °F)
cooling	Outdoor	D.B.	-5.0~52.0 °C		-5.0~52.0 °C			(23~126 °F)
Heating capacity	*2	kW	88		95			0.0
(Max)	-	BTU/h	300.		324			,200
(Max)	Power input	kW	23.		25			.32
	COP	kW/kW	3.7		3.		3.6	
	COP (ErP) ⁺	kW/kW	4.:		4.			73
(Nomina		kW	80		85			0.0
(NOITIIIIa	1) 3		273		290			,100
	D	BTU/h	18.		19			,100 .12
	Power input COP	kW			4.:			26
	COP	kW/kW	4.4	+1	4.	04	4.	20
			45.0.0= 0.0	2 (50, 04 0E)	450.650	2 (50, 04 05)	45.0.65.00	0 (50 04 05)
Temp. range of	Indoor	D.B.	15.0~27.0 °C		15.0~27.0 °C			C (59~81 °F)
heating	Outdoor	W.B.	-20.0~15.5 °		-20.0~15.5 °			C (-4~60 °F)
Indoor unit	Total capacity		50~150% of outo		50~150% of outo		50~150% of outo	
connectable	Model / Quantity		P15~P2	50/2~50	P15~P2	50/2~50	P15~P2	50/2~50
Sound pressure le		dB <a>	65.5	67.0	67.0	70.5	68.0	/ 72.0
(measured in aned		ub 71	00.07	01.0	07.07	70.0	00.0	7 7 2.0
Sound power leve		dB <a>	84.0	/ 86 0	85.5	80.5	86.0	/ 91.0
(measured in aned	choic room) *4	ub \A>	04.07	00.0			00.0	7 91.0
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						•		
Model			PURY-EP350YNW-A (-BS)	PURY-EP350YNW-A (-BS)	PURY-EP350YNW-A (-BS)	PURY-EP400YNW-A (-BS)	PURY-EP400YNW-A (-BS)	PURY-EP400YNW-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	250	250	250	315	315	315
		L/s	4,167	4,167	4,167	5,250	5,250	5,250
		cfm	8,828	8,828	8.828	11,123	11,123	11,123
	Control, Driving me	echanism	Inverter-control, Dir		Inverter-control, Dir			ect-driven by motor
	Motor output	kW	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2
*5	External static pre		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	Туре		Inverter scroll her		Inverter scroll her			metic compressor
oo.nproceer	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	10.2	10.2	10.2	10.9	10.9	10.9
	Case heater	kW	10.2	10.2	-	-	-	-
External finish	Odde Heddel	1000	Pre-coated galvar	nized steel sheets	Pre-coated galvar	nizad staal shaats		nized steel sheets
LAternal IIIIon			(+powder coatii		(+powder coatii			ng for -BS type)
			<munsell 5y<="" td=""><td></td><td><munsell 5y<="" td=""><td></td><td></td><td>' 8/1 or similar></td></munsell></td></munsell>		<munsell 5y<="" td=""><td></td><td></td><td>' 8/1 or similar></td></munsell>			' 8/1 or similar>
External dimensio	11.14/ 5			1,858 (1,798 without		1,858 (1,798 without		1,858 (1,798 without
External differsio	n HXWXD	mm					leas) x 1 240 x 740	leas) x 1 240 x 740
External dimensio	n HXWXD	mm	legs) x 1,240 x 740	legs) x 1,240 x 740	legs) x 1,240 x 740	legs) x 1,240 x 740	legs) x 1,240 x 740	legs) x 1,240 x 740
External dimensio	n HXWXD	mm in.	legs) x 1,240 x 740 73-3/16 (70-13/16 without	legs) x 1,240 x 740 73-3/16 (70-13/16 without	legs) x 1,240 x 740 73-3/16 (70-13/16 without	legs) x 1,240 x 740 73-3/16 (70-13/16 without	73-3/16 (70-13/16 without	73-3/16 (70-13/16 withou
		in.	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 withou legs) x 48-7/8 x 29-3/16
Protection	High pressure pro	in.	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor,	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor,	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor	73-3/16 (70-13/16 withou legs) x 48-7/8 x 29-3/16 High pressure switch
	High pressure pro	in.	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor, at 4.15 MP	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch a (601 psi)	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor, at 4.15 MP	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch a (601 psi)	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor at 4.15 MF	73-3/16 (70-13/16 withou legs) x 48-7/8 x 29-3/16 , High pressure switch 2a (601 psi)
Protection	High pressure pro	in.	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor, at 4.15 MP Over-heat protection, (legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch a (601 psi) Over-current protection	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor, at 4.15 MP Over-heat protection, (legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch a (601 psi) Over-current protection	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor at 4.15 MF Over-heat protection, (73-3/16 (70-13/16 withou legs) x 48-7/8 x 29-3/16 High pressure switch (601 psi) Over-current protection
Protection	High pressure pro	in.	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor, at 4.15 MP Over-heat protection, 0	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch a (601 psi) Over-current protection	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor, at 4.15 MP	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch a (601 psi) Over-current protection	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor at 4.15 MF Over-heat protection,	73-3/16 (70-13/16 withou legs) x 48-7/8 x 29-3/16 , High pressure switch 2a (601 psi)
Protection devices	High pressure pro	in. otection MP./FAN)	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor, at 4.15 MP Over-heat protection, (legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch a (601 psi) Over-current protection	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor, at 4.15 MP Over-heat protection, (legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch a (601 psi) Over-current protection	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor at 4.15 MF Over-heat protection, u	73-3/16 (70-13/16 withou legs) x 48-7/8 x 29-3/16 , High pressure switch a (601 psi) Over-current protection -
Protection devices	High pressure pro	in. otection MP./FAN)	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor, at 4.15 MP Over-heat protection, 0	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch a (601 psi) Over-current protection - R410A x 8.0 kg (18 lbs)	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor, at 4.15 MP Over-heat protection, (- - R410A x 8.0 kg (18 lbs)	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch a (601 psi) Over-current protection	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor at 4.15 MF Over-heat protection,	73-3/16 (70-13/16 withou legs) x 48-7/8 x 29-3/16, High pressure switch a (601 psi) Over-current protection
Protection devices Refrigerant Net weight	High pressure pro	in. otection MP./FAN)	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor, at 4.15 MP Over-heat protection, 0 - - R410A x 8.0 kg (18 lbs) 279 (616)	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch a (601 psi) Over-current protection R410A x 8.0 kg (18 lbs) 279 (616)	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor, at 4.15 MP Over-heat protection, 0 - - R410A x 8.0 kg (18 lbs) 279 (616)	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch a (601 psi) Over-current protection - - R410A x 8.0 kg (18 lbs) 282 (622)	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor at 4.15 MF Over-heat protection, 1-R410A x 8.0 kg (18 lbs) 282 (622)	73-3/16 (70-13/16 withou legs) x 48-7/8 x 29-3/16, High pressure switch a (601 psi) Over-current protectio - R410A x 8.0 kg (18 lbs) 282 (622)
Protection devices Refrigerant Net weight Heat exchanger	High pressure pro- Inverter circuit (COI Compressor Fan motor Type x original ch	in. otection MP./FAN) large kg (lbs)	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor, at 4.15 MP Over-heat protection, (- - R410A x 8.0 kg (18 lbs) 279 (616) Salt-resistant cross	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch a (601 psi) Over-current protection - R410A x 8.0 kg (18 lbs) 279 (616) in & aluminium tube	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor, at 4.15 MP Over-heat protection, (- - R410A x 8.0 kg (18 lbs) 279 (616) Salt-resistant cross	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch a (601 psi) Over-current protection R410A x 8.0 kg (18 lbs) 282 (622) in & aluminium tube	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor at 4.15 MF Over-heat protection, (10-10)	73-3/16 (70-13/16 withou legs) x 48-7/8 x 29-3/16, High pressure switch a (601 psi) Over-current protectio
Protection devices Refrigerant Net weight Heat exchanger Pipe between unit	High pressure pro Inverter circuit (CO) Compressor Fan motor Type x original ch	in. otection MP./FAN) large kg (lbs) mm (in.)	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor, at 4.15 MP Over-heat protection, (- - R410A x 8.0 kg (18 lbs) 279 (616) Salt-resistant cross 19.05 (3/4) Brazed	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch a (601 psi) Over-current protection	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor, at 4.15 MP Over-heat protection, (- - R410A x 8.0 kg (18 lbs) 279 (616) Salt-resistant cross 19.05 (3/4) Brazed	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch a (601 psi) Over-current protection	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor at 4.15 MF Over-heat protection, 4-5 MF Over-heat protection, 5-282 (622) Salt-resistant cross 22.2 (7/8) Brazed	73-3/16 (70-13/16 withou legs) x 48-7/8 x 29-3/16, High pressure switch a (601 psi) Over-current protectio
Protection devices Refrigerant Net weight Heat exchanger Pipe between unit and distributor	High pressure pro- Inverter circuit (COI Compressor Fan motor Type x original ch	in. otection MP./FAN) large kg (lbs)	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor, at 4.15 MP Over-heat protection, (- R410A x 8.0 kg (18 lbs) 279 (616) Salt-resistant cross 19.05 (3/4) Brazed 28.58 (1-1/8) Brazed	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch a (601 psi) Over-current protection - R410A x 8.0 kg (18 lbs) 279 (616) 19.05 (3/4) Brazed 28.58 (1-1/8) Brazed	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor, at 4.15 MP Over-heat protection, (- R410A x 8.0 kg (18 lbs) 279 (616) Salt-resistant cross 19.05 (3/4) Brazed 28.58 (1-1/8) Brazed	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch a (601 psi) Over-current protection - R410A x 8.0 kg (18 lbs) 282 (622) in & aluminium tube 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor at 4.15 MF Over-heat protection, 4	73-3/16 (70-13/16 withou legs) x 48-7/8 x 29-3/16, High pressure switch a (601 psi) Over-current protectio
Protection devices Refrigerant Net weight Heat exchanger Pipe between unit	High pressure pro Inverter circuit (CO) Compressor Fan motor Type x original ch	in. otection MP./FAN) large kg (lbs) mm (in.)	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor, at 4.15 MP Over-heat protection, 0 - R410A x 8.0 kg (18 lbs) 279 (616) Salt-resistant cross i 19.05 (3/4) Brazed 28.58 (1-1/8) Brazed Outdoor Twinning k	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch a (601 psi) Over-current protection - R410A x 8.0 kg (18 lbs) 279 (616) 19.05 (3/4) Brazed 28.58 (1-1/8) Brazed	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor, at 4.15 MP Over-heat protection, 0 - R410A x 8.0 kg (18 lbs) 279 (616) Salt-resistant cross: 19.05 (3/4) Brazed 28.58 (1-1/8) Brazed Outdoor Twinning k	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch a (601 psi) Over-current protection - R410A x 8.0 kg (18 lbs) 282 (622) in & aluminium tube 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor at 4.15 MF Over-heat protection,	73-3/16 (70-13/16 withou legs) x 48-7/8 x 29-3/16, High pressure switch a (601 psi) Over-current protectio
Protection devices Refrigerant Net weight Heat exchanger Pipe between unit and distributor	High pressure pro Inverter circuit (CO) Compressor Fan motor Type x original ch	in. otection MP./FAN) large kg (lbs) mm (in.)	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor, at 4.15 MP Over-heat protection, (legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch a (601 psi) Over-current protection 	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor, at 4.15 MP Over-heat protection, (- - R410A x 8.0 kg (18 lbs) 279 (616) Salt-resistant cross: 19.05 (3/4) Brazed 28.58 (1-1/8) Brazed Outdoor Twinning k Joint: CMY-R160-J1	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch a (601 psi) Dver-current protection - - R410A x 8.0 kg (18 lbs) 282 (622) in & aluminium tube 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed it: CMY-R200VBK4	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor at 4.15 MF Over-heat protection, 4 R410A x 8.0 kg (18 lbs) 282 (622) Salt-resistant cross 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed Outdoor Twinning I Joint: CMY-R160-J1	73-3/16 (70-13/16 withou legs) x 48-7/8 x 29-3/16, High pressure switch a (601 psi) Over-current protectio - R410A x 8.0 kg (18 lbs 282 (622) fin & aluminium tube 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed itt CMY-R200VBK4
Protection devices Refrigerant Net weight Heat exchanger Pipe between unit and distributor	High pressure pro Inverter circuit (CO) Compressor Fan motor Type x original ch	in. otection MP./FAN) large kg (lbs) mm (in.)	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor, at 4.15 MP Over-heat protection, (legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch a (601 psi) Over-current protection - R410A x 8.0 kg (18 lbs) 279 (616) in & aluminium tube 19.05 (3/4) Brazed 28.58 (1-1/8) Brazed it: CMY-R200VBK4	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor, at 4.15 MP Over-heat protection, (- - R410A x 8.0 kg (18 lbs) 279 (616) Salt-resistant cross: 19.05 (3/4) Brazed 28.58 (1-1/8) Brazed Outdoor Twinning k Joint: CMY-R160-J1	legs) x 1,240 x 740 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure switch a (601 psi) Over-current protection	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 High pressure sensor at 4.15 MF Over-heat protection, 4-15 MF Over-heat protection, 5-282 (622) R410A x 8.0 kg (18 lbs) 282 (622) 281-resistant cross 22.2 (7/8) Brazed Outdoor Twinning Joint: CMY-R160-J1 Main BC controller: CMB-P108;	73-3/16 (70-13/16 withou legs) x 48-7/8 x 29-3/16, High pressure switch a (601 psi) Over-current protectio - R410A x 8.0 kg (18 lbs 282 (622) fin & aluminium tube 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed itt CMY-R200VBK4

Notes:

*1,*2 Nominal conditions (subject to JIS B8615-2) + ErP Lot 21/6 calculation method to EN14825

		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 Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
Eurovent registered
*4 Cooling mode / Heating mode



^{*5} External static pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O). Consult your dealer about the specification when setting External static pressure option.

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

PURY-EP YSNW-A(-BS)



Specifications

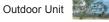
Power input Surface	Model			PURY-EP850	/SNW-A (-BS)	PURY-EP900	YSNW-A (-RS)	PURY-EP950	/SNW-A (-BS)
Cooling capacity 1 WW 96.0 101.0 108.0									
Nominal Power input STUh 327,600 344,600 368,500		*1	k\//						
Power input KW 27.50 28.21 30.16			1111						
EER (EF)** W/WW 4.19 3.58 3.58 3.58	(14011111ai)	Power input							
EER (EPT)									
Temp. range of lindoor									
Outdoor D.B. -5.0~52.0°C (23~128°F) -5.0°C	Town source of								
Healing capacity 12 W 108.0 113.0 119.5									
Power input W 03.050 33.04 32.03 3									
Power input		^2							
COP KW/KW 3.54 3.42 3.73	(Max)								
COP (EP)									
Nomina 15 kW 9.6.0 101.0 108.0									
Power input NW 21.09 20.86 22.87									
Power injust W	(Nomina	I) *3							
COP									
Temp. range of Indoor D.B. 15.0-27.0 °C (59-81 °F) 15.0-27.0		Power input	kW	21	.09	20	.86	22	.87
Nearing		COP	kW/kW	4.	55	4.	84	4.	72
Nearing									
heating Outdoor W.B. -20.0-15.5 **C (.4-60 *F) -20.0-15.5 **C (.4-60 *F) -20.0-16.5 **C (.4-60 *F) -20.0 **C (.4-60	Temp. range of	Indoor	D.B.	15.0~27.0 °C	C (59~81 °F)	15.0~27.0 °	C (59~81 °F)	15.0~27.0 °C	C (59~81 °F)
Indoor unit Total capacity S0-150% of outdoor unit capacity S0-150% of outdoor	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)
Control pressure level Greatweld About	Indoor unit	Total capacity		50~150% of outo	loor unit capacity	50~150% of outo	door unit capacity	50~150% of outo	loor unit capacity
Sound pressure level (measured in anechoic room) *4	connectable								
Control Driving Driver Control Driving Driver	Sound pressure le								
South mode Compressor FAN FA			dB <a>	68.5	72.5	68.5	/ 73.0	68.0	71.5
Refigerant piping High pressure mm (in.) 28.58 (1-1/8) Brazed 28.58 (1-1/8) Brazed 41.28 (1-5/8) Braze									
Refrigerant piping High pressure mm (in.) 28.58 (1-1/8) Brazed 28.58 (1-1/8) Brazed 28.58 (1-1/8) Brazed 41.28 (1-5/6) Braz			dB <a>	86.0	91.5	86.0	/ 92.0	85.5	90.5
Mode Set		3110101000111) 1		28 58 (1 1	(8) Brazed	29 59 /1 1	/8) Brazed	28 58 (1 1	(8) Brozod
Note Pure									
Model		Low pressure	111111 (111.)	41.20 (1-3	70) Brazeu	41.20 (1-0	70) brazeu	41.20 (1-3	o) brazeu
FAN				BUBY ED 400VAIM A / BO)	BUBY ED (ED)(A)(A) A (BO)	BUDY ED (50VA)W A (DO)	DUDY ED450VAIN A / DO	DUDY ED 450YANA A / DO)	DUDY EDGOVANA A / DO)
Air flow rate		T O							
L/S 5,250 5,250 5,250 5,250 5,250 5,250 5,250 4,917	FAIN		3, .						
Control, Driving mechanism Inverter-control, Direct-driven by motor Motor output kW 0.46 x 2 0.46		Air flow rate							
Control, Driving mechanism Inverter-control, Direct-driven by motor Motor output kW 0.46 x 2 0.46									
Motor output									
Type									
Type									
Starting method Inverter In			ess.						
Motor output kW 10.9 12.4 12.4 12.4 12.4 12.4 13.0	Compressor								
External finish									
Pre-coated galvanized steel sheets (+powder coating for -BS type) (-powder coating for -BS			kW	10.9	12.4	12.4	12.4	12.4	13.0
Compressor Com		Case heater	kW	-	-	-	-	-	-
External dimension HxWxD	External finish			Pre-coated galvar	nized steel sheets	Pre-coated galva	nized steel sheets	Pre-coated galvar	nized steel sheets
External dimension HxWxD				(+powder coatii	ng for -BS type)	(+powder coati	ng for -BS type)	(+powder coati	ng for -BS type)
Protection devices				<munsell 5y<="" td=""><td>8/1 or similar></td><td><munsell 5\<="" 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 5\<="" 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>
Protection devices	External dimensio	n HxWxD		1.858 (1.798 without	1.858 (1.798 without	1.858 (1.798 without	1.858 (1.798 without	1.858 (1.798 without	1.858 (1.798 without
Protection devices			mm	legs) x 1,240 x 740	legs) x 1,240 x 740	legs) x 1,240 x 740	legs) x 1,240 x 740	legs) x 1,240 x 740	legs) x 1,750 x 740
In legs x \ddotda 8-7/8 x 29-3/16 legs x \ddotda 7-7/8 x 29-3/16 legs x \ddotda 7-7/8 x 29-3/16 legs x \ddotda 8-7/8 x 29-3/16 legs x \ddotda 7-7/8 x 29-3/16 legs x									
Protection devices			ın.						
Act A 15 MPa (601 psi) at 4.15 MPa as 4.15 MPa (601 psi) at 4.15 MPa as 4.15 MPa as 4.15 MPa (601 psi) at 4.15 MPa as 4.15 MPa as 4.15 MPa as 4.	Protection	High pressure pr	otection						
Inverter circuit (COMP/FAN) Over-heat protection, Over-current protection Over-heat protection, Over-current protection Over-heat		g procedure pr	010011011						
Compressor Fan motor Fan		Inverter circuit (CO	MP/FAN)						
Fan motor Fan motor Fan motor Fan motor Fan motor Type x original charge R410A x 8.0 kg (18 lbs) R410A x 10.8 kg (24 lbs) R410A x 10.8 kg			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-	-	-	-	-	-
Refrigerant Type x original charge R410A x 8.0 kg (18 lbs) R410A x 10.8 kg (24 lbs) R410A x				-	-	-	_	-	-
Net weight	Defrigerent		nargo	P/1104 v 8 0 kg (19 lbs)	P/104 v 10 8 kg (24 lbs)	P4104 v 10.8 kg (24 lbs)	P4104 v 10.8 kg (24 lbs)	- D4104 v 10.8 kg (24 lbs)	P4104 v 10.8 kg (24 lbs)
Heat exchanger Salt-resistant cross fin & aluminium tube Salt-resistant cross fin & aluminium tube		Trybe v original ci							
Pipe between unit High pressure mm (in.) 22.2 (7/8) Brazed			Kg (IDS)			()	(,	(,	(- /
and distributor Low pressure mm (in.) 28.58 (1-1/8) Brazed 2		It eats a second							
Optional parts Outdoor Twinning kit: CMY-R200VBK4 Joint: CMY-R160-J1 Main BC controller: CMB-P108,1012,1016V-JA,CMB-P1016V-KA Outdoor Twinning kit: CMY-R200VBK4 Joint: CMY-R160-J1 Main BC controller: CMB-P108,1012,1016V-JA,CMB-P1016V-KA Main BC controller: CMB-P108,1012,1016V-JA,CMB-P1016V-KA									
Joint: CMY-R160-J1 Main BC controller: CMB-P108,1012,1016V-JA, CMB-P1016V-KA Joint: CMY-R160-J1 Joint: CMY-R160-J1 Joint: CMY-R160-J1 Joint: CMY-R160-J1 Main BC controller: CMB-P108,1012,1016V-JA, CMB-P1016V-KA Joint: CMY-R160-J1 Main BC controller: CMB-P108,1012,1016V-JA, CMB-P1016V-KA		Low pressure	mm (in.)						
Main BC controller: CMB-P108,1012,1016V-JA,CMB-P1016V-KA Main BC controller: CMB-P108,1012,1016V-JA,CMB-P1016V-KA Main BC controller: CMB-P108-P108,1012,1016V-JA,CMB-P1016V-KA Main BC controller: CMB-P108-P108-P108-P108-P108-P108-P108-P108	Optional parts				tit: CMY-R200VBK4		tit: CMY-R200VBK4		it: CMY-R200VBK4
Sub BC controller: CMB-P104V-KB Sub BC controller: CMB-P104V-KB Sub BC controller: CMB-P104V-KB									
				Sub BC controller	: CMB-P104V-KB	Sub BC controlle	r: CMB-P104V-KB	Sub BC controller	: CMB-P104V-KB

Notes:

*1,*2 Nominal conditions (subject to JIS B8615-2) + ErP Lot 21/6 calculation method to EN14825

	Indoor	Outdoor	Pipe length	Level difference	
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m (24-9/16ft.)	0m (0ft.)	
	(81°F DB/66°F WB)	(95°F DB/75°F WB)		* *	
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 Nominal heating conditions (subject to JIS B8815-2) Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.) Eurovent registered
*4 Cooling mode / Heating mode



^{*}S External static pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH_zO, 6.1mmH_zO, 8.2mmH_zO).

Consult your dealer about the specification when setting External static pressure option.

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

PURY-EP YSNW-A(-BS)



Specifications

Model			PURY-EP1000	YSNW-A (-BS)	PURY-EP1050	YSNW-A (-BS)	PURY-EP1100	YSNW-A (-BS)
Power source				400-415 V 50/60 Hz		400-415 V 50/60 Hz		-400-415 V 50/60 Hz
Cooling capacity	*1	kW	-	3.0		8.0		24.0
(Nominal)		BTU/h		.600		,600		3,100
(Horristal)	Power input	kW		.43		.57		2.75
	EER	kW/kW	3.3		3.1			.90
	EER (ErP)+	kW/kW	4.:			05		.82
T								
Temp. range of	Indoor	W.B.	15.0~24.0 °C		15.0~24.0 °C			C (59~75 °F)
cooling	Outdoor	D.B.	-5.0~52.0 °C		-5.0~52.0 °C			C (23~126 °F)
Heating capacity	*2	kW		7.0		2.0		0.0
(Max)		BTU/h		,300		,400		7,700
	Power input	kW		.43		.28		5.05
	COP	kW/kW	4.0	04	3.5	54	3.0	04
	COP (ErP)+	kW/kW	4.:	30	4.	05	3.	.80
(Nomina	1) *3	kW	11:	3.0	113	8.0	12	24.0
'		BTU/h	385	.600	402	,600	423	3,100
	Power input	kW	24	.50	26	.69	29	0.24
	COP	kW/kW	4.			42		.24
Temp. range of	Indoor	D.B.	15.0~27.0 °C	C (59~81 °F)	15.0~27.0 °C	C (59~81 °F)	15.0~27 0 °	C (59~81 °F)
heating	Outdoor	W.B.	-20.0~15.5 °		-20.0~15.5 °			°C (-4~60 °F)
Indoor unit	Total capacity			loor unit capacity	50~150% of outo			door unit capacity
connectable	Model / Quantity			50/2~50		50/3~50		250/3~50
Sound pressure le							F 13-F 2	230/3**30
(measured in ane		dB <a>	66.5	67.5	68.0	73.0	69.0	/ 73.0
Sound power leve								
(measured in ane		dB <a>	85.0	87.0	86.0	/ 92.0	86.5	/ 92.0
Refrigerant piping		mm (in.)	20 50 (1 1	/8) Brazed	24.02.(4.2	/8) Brazed	24 02 (4 3	B/8) Brazed
						/8) Brazed		5/8) Brazed
diameter	Low pressure	mm (in.)	41.20 (1-3	70) DI azeu	41.20 (1-3	(o) brazeu	41.20 (1-0	oro) brazeu
Set Model Model			DUDY EDGONANA A (DO)	DUDY EDGOVANA A / DOV	DUDY EDECOVARIA A / DO)	DUDY EDECOVARY A / DOX	DUDY EDSENVALVA (DO)*	DUDY EDECOVABLE A / DOX
FAN	T O		Propeller fan x 2	Propeller fan x 2	PURY-EP500YNW-A (-BS) Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
FAIN	Type x Quantity Air flow rate	3/:	295	295	295	410	410	410
	Air now rate	m³/min	4,917	4,917	4,917	6,833	6,833	6,833
		L/s	10,416	10.416	10.416	14.477	14.477	14.477
	0 / 1 0 : :	cfm						
	Control, Driving m			ect-driven by motor		ect-driven by motor		rect-driven by motor
	Motor output	kW	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2
	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Туре			metic compressor		metic compressor		rmetic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	13.0	13.0	13.0	14.3	14.3	14.3
	Case heater	kW	-	-	-	-	-	-
External finish			Pre-coated galvar	nized steel sheets	Pre-coated galvar	nized steel sheets	Pre-coated galva	nized steel sheets
				ng for -BS type)	(+powder coati	ng for -BS type)	(+powder coati	ing for -BS type)
			<munsell 5y<="" td=""><td>8/1 or similar></td><td><munsell 5y<="" td=""><td>8/1 or similar></td><td><munsell 5\<="" td=""><td>Y 8/1 or similar></td></munsell></td></munsell></td></munsell>	8/1 or similar>	<munsell 5y<="" td=""><td>8/1 or similar></td><td><munsell 5\<="" td=""><td>Y 8/1 or similar></td></munsell></td></munsell>	8/1 or similar>	<munsell 5\<="" td=""><td>Y 8/1 or similar></td></munsell>	Y 8/1 or similar>
External dimensio	n HxWxD		1,858 (1,798 without	1,858 (1,798 without	1,858 (1,798 without	1,858 (1,798 without	1,858 (1,798 without	1,858 (1,798 without
		mm	legs) x 1,750 x 740	legs) x 1,750 x 740	legs) x 1,750 x 740	legs) x 1,750 x 740	legs) x 1,750 x 740	legs) x 1,750 x 740
			73-3/16 (70-13/16 without	73-3/16 (70-13/16 without		73-3/16 (70-13/16 without		73-3/16 (70-13/16 without
		in.			legs) x 68-15/16 x 29-3/16			legs) x 68-15/16 x 29-3/16
Protection	High pressure pr	ntection			High pressure sensor			, High pressure switch
devices	riigir procodic pr	otcotion	at 4.15 MP		at 4.15 MP			Pa (601 psi)
devices	Inverter circuit (CO	MP/FΔNI)						Over-current protection
	Compressor	IVIE./I AIN)	Over-near protection, v	Jver-current protection	Over-near protection, v	Jver-current protection	Over-near protection,	T Transfer of the Colors
	Fan motor		-	-	-	-	-	-
Defriesrant	Type x original ch		D4104 v 10 9 kg (24 lbs)	D4104 v 10.9 kg (24 lbs)	D4104 v 10.9 kg (24 lbs)	D4104 v 10 9 kg (24 lbs)	D4104 v 10 9 kg (24 lbs)	R410A x 10.8 kg (24 lbs)
Refrigerant Net weight	Trype x original cr		345 (761)	345 (761)	345 (761)	345 (761)	345 (761)	345 (761)
	-	kg (lbs)						
Heat exchanger	LC-b	(:- \		fin & aluminium tube		fin & aluminium tube		fin & aluminium tube
Pipe between unit		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
and distributor	Low pressure	mm (in.)	28.58 (1-1/8) Brazed					28.58 (1-1/8) Brazed
Optional parts			Outdoor Twinning k	it: CMY-R200VBK4	Outdoor Twinning k			kit: CMY-R200VBK4
			Joint: CMY-R160-J1			Y-Y102LS-G2,CMY-R160-J1		IY-Y102LS-G2,CMY-R160-J1
				: CMB-P1016V-KA		: CMB-P1016V-KA		r: CMB-P1016V-KA
			Sub BC controller	: CMB-P104V-KB	Sub BC controller	: CMB-P104V-KB	Sub BC controlle	r: CMB-P104V-KB

Notes:

*1,*2 Nominal conditions (subject to JIS B8615-2) + ErP Lot 21/6 calculation method to EN14825

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

*3 Nominal heating conditions (subject to JIS B8615-2) Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

^{*22}HP (P550) can be used only in combination with others.

Outdoor Unit



Eurovent registered
*4 Cooling mode / Heating mode

^{*5} External static pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External static pressure option.

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

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.

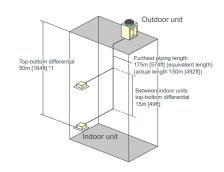
The technology behind this is a Flash Injection Circuit which provides the optimum amount of refrigerant to the system via a compressor through a specially designed injection port to ensure a particularly stable operation. With this, ZUBADAN can provide full heating performance even at -15°C and continuous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

Installation image



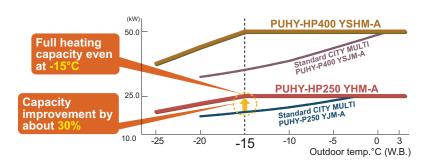
System Pipe Lengths

[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]



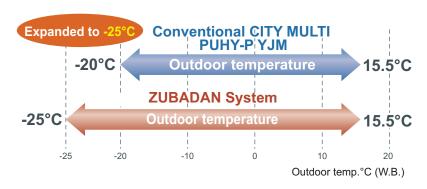
^{*1} When the outdoor unit is installed below the indoor unit, top-bottom differential is 40m [131 ft]

Stable Heating Performance even at -15°C

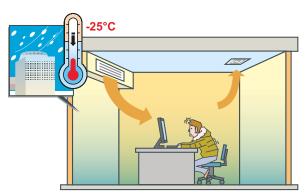


Using an industry first 'Flash-injection Circuit', the ZUBADAN System is able to provide FULL heating performance in ambient temperatures as low as -15°C.

Expanded Heating Operation down to -25°C



From a previous LOWEST operating ambient temperature of -20°C, the ZUBADAN System pushes the 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



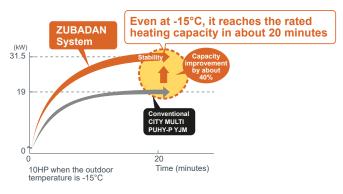
The new ZUBADAN System has no trouble keeping the occupants nice and warm at such temperatures.

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

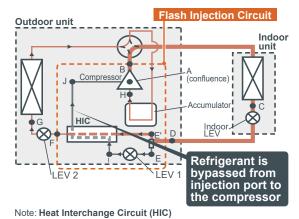
By utilising our advanced Flash Injection Circuit, the system can not only provide continuous heating for up to 250 minutes in one continuous cycle, but also significantly lessens defrost time to give exceptionally stable heating operation.

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.

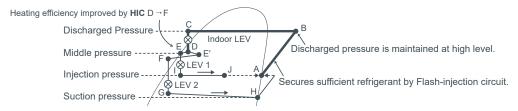


Heating efficiency is improved by enhancing the recollection of heat at the outdoor unit with the low temperature refrigerant from the HIC.

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]

OUTDOOR UNIT ZUBADAN (Heat Pump) Series(Y)

PUHY-HP Y(S)HM-A(-BS)

▶ Specifications



Set name			PUHY-HP200YHM-A(-BS)	PUHY-HP250YHM-A(-BS)	PUHY-HP400	YSHM-A(-BS)	PUHY-HP500	YSHM-A(-BS)
Power source				3-phase 4-wire 380	0-400-415V 50/60	Hz		
Cooling cap	acity *1	kW	22.4	28.0	45.0		56	6.0
(Nominal)	*1	BTU/h	76,400	95,500	153,500		191,100	
	Power input	kW	6.40	9.06	12	.86	18	.16
	Current input	Α	10.8-10.2-9.8	15.2-14.5-14.0	21.7-20).6-19.8	30.6-29	9.1-28.0
	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	А	11.0-10.4-10.0	15.0-14.3-13.8	22.5-21	.4-20.6	30.4-28	3.9-27.8
	COP	kW/kW	3.83	3.52	3.	74	3.	49
Temp.	Indoor	D.B.		15 ~ 27°C	(59 ~ 81°F)			
range								
of heating	Outdoor	W.B.		-25 ~ 15.5°C	(-13 ~ 60°F)			
Indoor unit	Total capaci	ity		50 ~ 130% of out	door unit capacity	/		
connectable	Model/Quar	ntity	P15~P250 / 1~17	P15 ~ P250 / 1 ~ 21	P15 ~ P25	50 / 1 ~ 34	P15 ~ P2	50 / 1 ~ 43
Sound press (measured in a		dB <a>	56	57	59		60	
· · · · · · · · · · · · · · · · · · ·		mm(in.)	ø12.7 (ø1/2) Brazed	ø12.7 (ø1/2) Brazed	ø15.88 (ø5/8) Brazed		ø15.88 (ø5/8) Brazed	
1 11 //		mm(in.)	ø19.05 (ø3/4) Brazed	ø22.2 (ø7/8) Brazed		1/8) Brazed		1/8) Brazed
Model		()	` ′	-	,		PUHY-HP250YHM-A(-BS)	
External finis	sh		Pre-coated galvanized steel shee	1 /	1 /	ets <munsell 5<="" td=""><td>1 /</td></munsell>	1 /	
		mm	1,710 (without legs 1,650) x 920 x 760	1,710 (without legs 1,650) x 920 x 760			1,710 (without legs 1,650) x 920 x 760	
External dimens	ion H x W x D		67-3/8 (without legs 65)	67-3/8 (without legs 65)	67-3/8 (without leas 65)	67-3/8 (without leas 65)	67-3/8 (without legs 65)	67-3/8 (without leas 65)
		in.	x 36-1/4 x 29-15/16	x 36-1/4 x 29-15/16	x 36-1/4 x 29-15/16	x 36-1/4 x 29-15/16	x 36-1/4 x 29-15/16	x 36-1/4 x 29-15/16
Net weight		kg(lbs)	220 (486)	220 (486)	220 (486)	220 (486)	220 (486)	220 (486)
Heat exchar	nger	O()	Salt-resistant cros	s fin & copper tube	Salt-resistant cross fin		s fin & copper tub	oe
	Type		Inverter scroll her	Inverter scroll hermetic compressor				
Compressor	Starting me	thod	Inve	Inverter				
	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
		cfm	7,945	7,945	7,945	7,945	7,945	7,945
FAN	Type x Qua	ntity	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
	External station	c press.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
5 :	High pressure	protection	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)			
Protection Inverter circuit (COMP./FA		COMP./FAN)	Over-heat protection, (Over-current protection	Over-	heat protection,	Over-current prot	ection
devices Compressor		r	Over-heat	protection		Over-heat	protection	
Refrigerant Type x Original charge		nal charge	R410A x 9.0kg (20 lbs)	R410A x 9.0kg (20 lbs)	R410A x 9.0kg (20 lbs)	R410A x 9.0kg (20 lbs)	R410A x 9.0kg (20 lbs)	R410A x 9.0kg (20 lbs)
Pipe between	Liquid pipe		-	-			ø9.52 (ø3/8) Flare	
unit distributor	Gas pipe	mm(in.)	-	-	` '	\ /	ø22.2 (ø7/8) Brazed	` '
Optional parts		, , ,	Joint : CMY- Header : CMY-Y	-Y102SS-G2 104/108/1010-G	Outdoor Twinning kit: CMY-Y100VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G			



^{*1,*2} Nominal conditions

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

 $^{^*}$ 3 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.

Water Cooled Series



Heating or Cooling

WY series — PQHY-P Y(S)LM-A

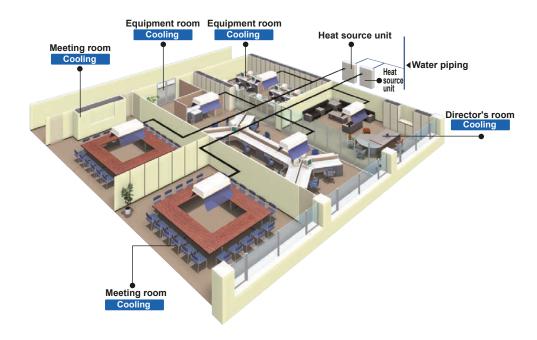
[WY (Heat Pump) series]

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.

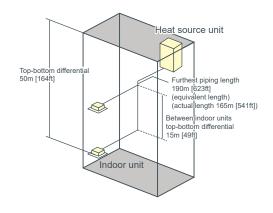
Condensing units can be situated indoors allowing greater design flexibility and no limitation on building size. Depending on capacity, up to 15 to 50 indoor units can be connected to a single condensing unit with individualised and/or centralised control. The two-pipe system allows all CITY MULTI solutions 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 meters [Feet] 300-500 [984-1640]
Maximum allowable length · · · · · · · · · · · · · · · · · · ·	165 (190 equivalent) [541(623)]
Farthest indoor from first branch	40 [131]
Vertical differentials between units	Maximum meters [Feet]
Indoor/heat source (heat source higher)	50 [164]
Indoor/heat source (heat source lower) · · · · · · · · · · · · · · · · · · ·	· 40 [131]
Indoor/indoor	15 [49]





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





			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			22.4	28.0	33.5
(Nominal) kcal / h		20,000	25,000	30,000	
*1 B		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)
	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)
	Total capacity		50~130% of heat source unit capacity	50~130% of heat source unit capacity	50~130% of heat source unit capacity
	Model / Quantity		P15~P250/1~17	P15~P250/1~21	P15~P250/1~26
Sound pressure lev					
(measured in anec		dB <a>	46	48	54
Refrigerant piping	Liquid pipe			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 >= 40 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	m³/h	5.76	5.76	5.76
J J		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	Type		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			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	Olvii .)	Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant Type x original charge		arge	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)
Net weight	Type x original cr				
Heat exchanger		kg (lbs)	174 (384)	174 (384) plate type	174 (384)
	Water volume in		plate type	piate type	plate type
	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	Joint: CMY-Y102SS/LS-G2	Joint: CMY-Y102SS/LS-G2
			Header: CMY-Y104, 108, 1010-G	Header: CMY-Y104, 108, 1010-G	Header: CMY-Y104, 108, 1010-G

٠,	1, 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 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
0 1 1		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	A	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		45.0	50.0	56.0
(Nominal)	_	kcal / h	40.000	45,000	50.000
(11011111101)	*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		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			F15~F250/1~50	F15~F250/1~54	F15~F250/1~59
(measured in ane		dB <a>	52	52	54
Refrigerant piping		mana (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		
Circulating water	Water flow rate	mm (in.)		28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed 7.20
Circulating water	water now rate	m³/h	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	
	Compressor		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)
Net weight kg (lbs)		217 (479)	217 (479)	217 (479)	
Heat exchanger		3 (3)	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-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 Nothinal Conditions									
		Indoor	Water temperature	Pipe length	Level difference					
	Cooling	27°CD.B./19°CW.B. (81°FD.B./66°FW.B.)	30°C (86°F)	7.5m (24-9/16ft.)	Om (Oft.)					
	Heating	20°CD.B. (68°FD.B.)	20°C (68°F)							

^{*}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.

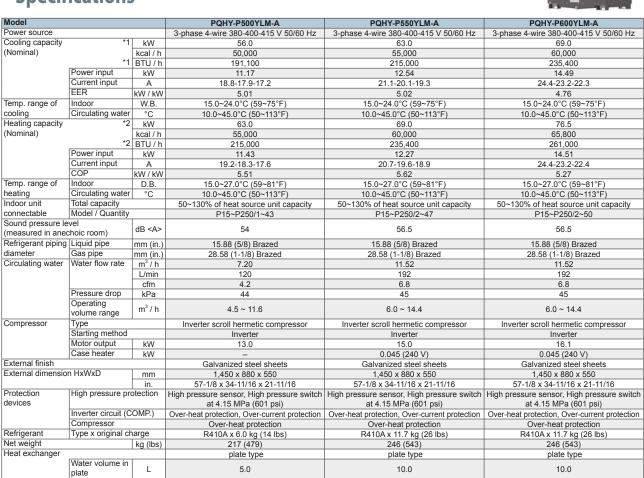
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

HEAT SOURCE UNIT WY (Heat Pump) Series



PQHY-P YLM-A

► Specifications



2.0

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

Header: CMY-Y104, 108, 1010-G

Notes:

Optional parts

Water pressure

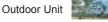
Max

MPa

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)				

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

^{*}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.

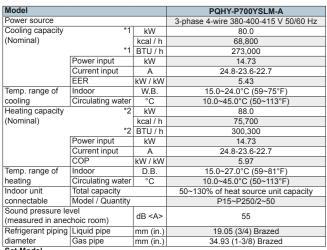
^{*}Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

^{*}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 WY (Heat Pump) Series **PQHY-P YSLM-A**

► Specifications



Set Model					
Model		PQHY-P350YLM-A	PQHY-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	57-1/8 x 34-11/16 x	
			21-11/16	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)	217 (479)	217 (479)	
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/LS-0	g kit: CMY-Y200VBK2 G2, CMY-Y202, 302S-G2	

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

^{*}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

► 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)
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 (measured in ane			55	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	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 ~	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		Heat Source Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202, 302S-G2 Header: CMY-Y104, 108, 1010-G		Heat Source Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202, 302S-G2 Header: CMY-Y104, 108, 1010-G			

1, 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.

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)
heating	Circulating water	°C	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)
Indoor unit	Total capacity		50~130% of heat source unit capacity	50~130% of heat source unit capacity
connectable	Model / Quantity		P15~P250/2~50	P15~P250/2~50
Sound pressure le (measured in ane		dB <a>	56	57
Refrigerant piping		mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed
diameter	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed	41.28 (1-5/8) Brazed

Set Model						
Model			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.		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 (COMP.)		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		Heat Source Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202, 302S-G2 Header: CMY-Y104, 108, 1010-G		Heat Source Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202, 302S-G2 Header: CMY-Y104, 108, 1010-G		

١,	2 Normital 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.

Water Cooled Series



Simultaneous Heating and Cooling

WR2 series — PQRY-P Y(S)LM-A

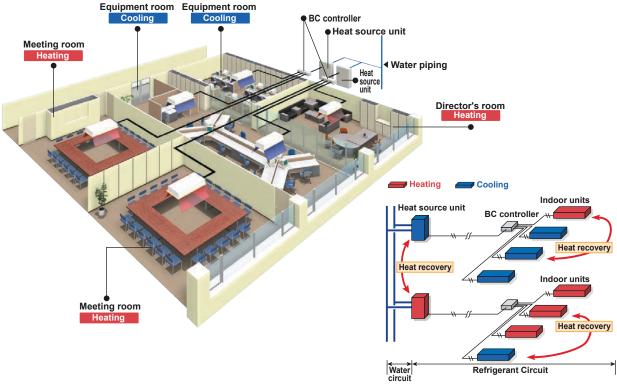
[WR2 (Heat Recovery) series]

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,

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)



[P200-P900 (WR2 series)]

System Pipe Lengths	
Refrigerant Piping Lengths	Maximum meters [Feet]
Total length·····	550-750 [1,804-2,460]
Maximum allowable length · · · · · · · · · · · · · · · · · · ·	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]
	15 (10) [49 (32)]*3
Indoor/indoor · · · · · · · · · · · · · · · · · ·	30 (20) [98 (65)]*4
Main BC Controller/Sub BC Controller	15 (10) [49 (32)]*5

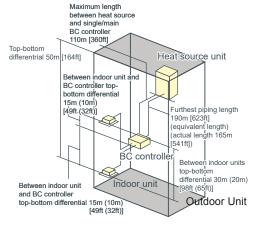
- *1 Details refer to the DATA BOOK
- *2 Farthest Indoor from BC controller can exceed 40m [131ft.] till 60m [197ft.] if no Indoor sized P200, P250 connected.

 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

Double heat recovery (WR2)





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

► Specifications



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	C	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			P15~P250/1~20	P15~P250/1~25	P15~P250/1~30
(measured in aned	choic room)	dB <a>	46	48	54
Refrigerant piping		mm (in.)	15.88 (5/8) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed
diameter	Low pressure	mm (in.)	19.05 (3/4) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed
Circulating water	Water flow rate	m³/h	5.76	5.76	5.76
		L/min	96	96	96
		cfm	3.4	3.4	3.4
	Pressure drop	kPa	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)
	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 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)
Net weight	1.76-1.0.3	kg (lbs)	172 (380)	172 (380)	172 (380)
Heat exchanger		(103)	plate type	plate type	plate type
Trout exerializes	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-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	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 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 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	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		50~150% 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					
(measured in aned	choic room)	dB <a>	52	52	54
Refrigerant piping		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	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	m ³ / h	4.5 ~ 11.6	4.5 ~ 11.6	4.5 ~ 11.6
Compressor	Type		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
Comproces:	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	9.5	10.7	11.6
	Case heater	kW	-	-	_
External finish	Gudo Houtor	1.44	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
External amonoro		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			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 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)
Net weight	71	kg (lbs)	216 (477)	216 (477)	216 (477)
Heat exchanger		J (/	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	

1, 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.

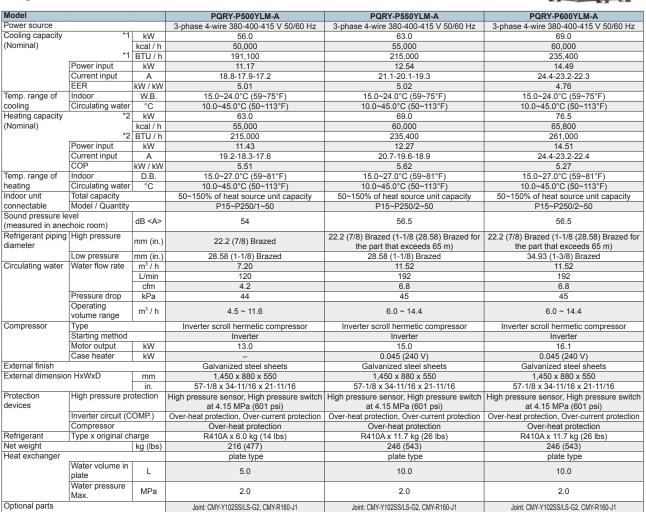
*Due to continuing improvement, above specification may be subject to change without notice.

HEAT SOURCE UNIT WR2 (Heat Recovery) Series



PQRY-P YLM-A

► Specifications



Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1
Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1
Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1
Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1

Notes:

1, 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.)	Om (Oft.)		
	Heating	20°CD.B. (68°FD.B.)	20°C (68°F)				

Main BC controller: CMR-P108 1010 1013 1016V-GA1

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



^{*}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.

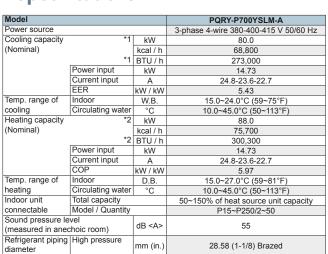
^{*}Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

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

HEAT SOURCE UNIT WR2 (Heat Recovery) Series

PQRY-P YSLM-A





a.aoto.					
	Low pressure mm (in.)		34.93 (1-3/8) Brazed		
Set Model					
Model		PQRY-P350YLM-A	PQRY-P350YLM-A		
Circulating water	Water flow rate	m ³ / h	7.20 -	+ 7.20	
		L/min	120 -	+ 120	
		cfm	4.2 -	+ 4.2	
	Pressure drop	kPa	44	44	
	Operating	m ³ / h	15+15-	11.6 + 11.6	
	volume range	111 / 11	4.5 + 4.5 ~	11.0 + 11.0	
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	57-1/8 x 34-11/16 x	
			21-11/16	21-11/16	
Protection	High pressure pre	otection	High pressure sensor, High pressure switch		
devices			at 4.15 MPa (601 psi)		
	Inverter circuit (C	OMP.)	Over-heat protection, Over-current protection		
	Compressor			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	L	5.0	5.0	
	plate		3.0	3.0	
	Water pressure	MPa	2.0	2.0	
Iviax.			2.0	2.0	
Optional parts			Heat Source Twinning kit: CMY-Q200CBK		
				_S-G2, CMY-R160-J1	
			Main BC controller:		
			Sub BC controller: CMB-P104,	108V-GB1, CMB-P1016V-HB1	

٠,	1, 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.)	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 YSLM-A





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	A	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	A	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 (measured in ane		dB <a>	55	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/		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	External dimension HxWxD mm in.		1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550		
			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		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 pressure MPa		2.0	2.0	2.0	2.0		
Optional parts			Joint: CMY-Y102SS/I Main BC controller:	g kit: CMY-Q200CBK LS-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	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 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 A		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 <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	41.28 (1-5/8) Brazed
Set Model				• /

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				11.6 + 11.6		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 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		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 pressure Max.	MPa	2.0	2.0	2.0	2.0		
Optional parts			Joint: CMY-Y102SS/I Main BC controller:	g kit: CMY-Q200CBK LS-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 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.



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

Mide	OCIC		IIIIaooi		1169		
Тур	е	Model name	Model	P15	P20	P25	
	4-way air flow	PLFY-P VBM-E Page94 - Page95			 		L
Ceiling Cassette	i way an new	PLFY-P VFM-E1 Page96 - Page97	NEW			! !	
Coming Gassotto	2-way air flow	PLFY-P VLMD-E					
	1-way air flow	PMFY-P VBM-E Page100 - Page101					
 		PEFY-P VMS1(L)-E Page102 - Page103					
		PEFY-P VMA(L)-E					
Ceiling Concealed	l	PEFY-P VMH-E2 PEFY-P VMH(S)-E Page106 - Page107				 	
	Fresh Air Intake	PEFY-P VMH-E-F PEFY-P VMHS-E-F Page108 - Page111	NEW CONTRACTOR OF THE PROPERTY		1 1 1 1 1 1	 	
Ceiling Suspende	d	PCFY-P VKM-E Page112 - Page113			I I I I I I	I I I I I I	
		PKFY-P VBM-E Page114 - Page115	•				
		PKFY-P VHM-E Page114 - Page115	A				
Wall Mounted		PKFY-P VKM-E Page114 - Page115					
		MSZ-EF Designer Series					
		MSZ-FH	NEW				
		MSZ-GE Page118 MFZ-KJ	NEW		 		
		Page119	NEW		I I I I I I	 	
Floor Standing/ Floor Mounted Concealed		PFFY-P VKM-E2 Page122 - Page123				<u></u>	
		PFFY-P VLEM-E Page124 - Page125 PFFY-P VLRM-E				 	
		PFFY-P VLRM-E PFFY-P VLRMM-E				1	

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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. By 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.

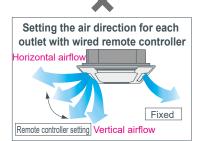


72 patterns of airflow to accommodate any room layout are available.

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

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).

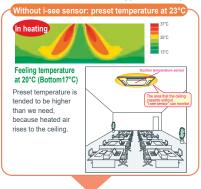
72 airflow patterns 4-, 3-, or 2- way outlet selection* * Optional parts air outlet shutter plate (PLFY-P VBM-E ONLY) is required for 2 or 3 way outlet selection.

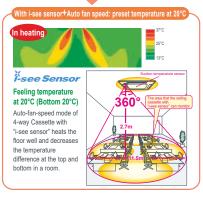


Optional "i-See" Sensor

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					
0 "		*1	kW	3.6	4.5	5.6				
Cooling	g capacity	*1	BTU/h	12,300	15,400	19,100				
		*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 F		Heating	kW	0.02	0.03	0.03				
		Cooling	Α	0.27	0.29	0.29				
Curren	τ	Heating	Α	0.20	0.22	0.22				
External finish Unit					Galvanized steel sheet					
(Munsell 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	(33-1/8)				
H x W	x D	Panel	mm(in.)	35 x 950 x 950 (1-3/8 x 37-7/16 x 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 fi	n (Aluminum fin and coppe	r tube)				
	Type x	Quantity		Turbo fan x 1						
	Airflow	rate *2	m³/min	11-12-13-14 12-13-14-16						
Fan		-Mid1-Hi)	L/s	183-200-217-233	200-217	-233-267				
	`	,	cfm	388-424-459-494	424-459	-494-565				
	External sta	itic pressure	Pa	0						
Motor	Туре				DC motor					
WOLOI	Output		kW		0.050					
Air filte	r				PP Honeycomb					
Refrige	erant	Gas (Flare)	mm(in.)	ø12.7	7 (ø1/2)	ø12.7 (ø1/2) / ø15.88 (ø5/8) (Compatible)				
pipe dia	ameter	Liquid (Flare)	mm(in.)	ø6.35	ø6.35 (ø1/4)					
Field dr	ain pipe o	liameter	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	z / 1-phase 220V 60Hz						
Caslina		. *1	kW	7.1	9.0	11.2	14.0					
Cooling	capacity	*1	BTU/h	24,200	24,200 30,700 38,200		47,800					
Llastina	capacity	. *1	kW	8.0	10.0	12.5	16.0					
neaung	j 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					
Curren		Cooling	Α	0.36	0.51	1.00	1.07					
Curren		Heating	Α	0.29	0.43	0.94	1.00					
Externa	al finish	Unit			Galvanized	steel sheet						
(Munsell No.) Panel					MUNSELL (6.4Y 8.9/0.4)						
Dimens		Unit	mm(in.)			3/16 x 33-1/8 x 33-1/8)						
H x W	k D	Panel	mm(in.)		35 x 950 x 950 (1-3/8 x 37-7/16 x 37-7/16)							
Net we	iaht	Unit	kg(lbs.)	23	,	27 (60)					
ivet we	igiit	Panel	kg(lbs.)		6 (13)							
Heat ex	changer				Cross fin (Aluminum fin and copper tube)							
	Type x	Quantity		Turbo fan x 1								
	Airflow	rate *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	tic pressure	Pa		0							
Motor	Туре				DC n							
	Output		kW	0.0	**	0.1	20					
Air filte	r				PP Hone	eycomb						
Refrige	rant	Gas (Flare)	mm(in.)	ø15.88	s (ø5/8)	ø15.88 (ø5/8) / (Comp						
pipe dia	ameter	Liquid (Flare)	mm(in.)		ø9.52	52 (ø3/8)						
Field dr	ain pipe c	liameter	mm(in.)		O.D. 32	(1-1/4)						
Sound p	ressure lev 2-Mid1-Hi)	vel *2 *3	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-E1 3D i-see Sensor





The new 4-way cassette VFM with a beautiful square design introduces Mitsubishi Electric's new technology 3D i-see Sensor.



New Design

The height above ceiling 245mm

The height above ceiling of 245 mm is top class in the industry*, and enables fitting into narrow ceiling space.



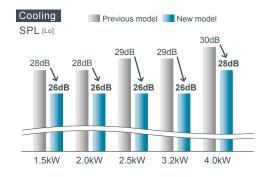
* As of Aug 2015. Among compact 4-way cassettes for syste ceiling. (An incompany investigation.)

Beautiful square panel design

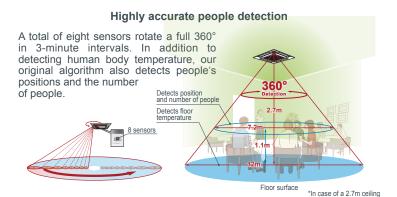
The straight-line form introduced has resulted in a beautiful square design.

Quietness

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



3D i-see Sensor



Detects people's position

Some people do not like the drafty-feeling, some want to be warm from head to toe.

People's likes and dislikes vary. With the 3D i-see Sensor, it is possible to choose "Direct Airflow" or "Indirect Airflow" for each vane. When the sensor detects people, it automatically adjusts the angle of the vane, enabling independent airflow pattern for the comfort of each person.



Direct/Indirect setting

The horizontal airflow spreads closely along the ceiling. When set to "Indirect Airflow", it helps to eliminate uncomfortable drafty-feeling dramatically.



During heating mode, once the room temperature reaches to the pre-set temperature, the operation switches to circulator operation and blows the air horizontally. This provides smart heating by moving the hot air at ceiling level towards people's height. *PAR-33MAA is required for each setting

Detects number of people Energy-saving mode

The 3D i-see Sensor detects the number of people in the room, and then calculates the occupancy rate based on the maximum number of people up to that time. Smart controling by switching power to energy-saving mode or turning to Auto-off helps to reduce energy consumption.

IT terminal

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

				PLFY-P15VFM-E1	PLFY-P20VFM-E1	PLFY-P25VFM-E1	PLFY-P32VFM-E1	PLFY-P40VFM-E1	PLFY-P50VFM-E1				
Power	source					1-phase 220-240V	50Hz / 220V 60Hz						
0		*1	kW	1.7	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	^y *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				
Curren	nt	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 (1.0Y 9.2/0.2)						
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)								
Natura	inht	Unit	kg(lbs.)										
Net we	eigni	Panel	kg(lbs.)		3 (7)								
Heat e	xchangei	r		Cross fin (Aluminum fin and copper tube)									
	Type x	Quantity			Turbo fan x 1								
	Airflow	rate	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	-Hi)	L/s	108-125-133	108-125-142	108-133-150	117-133-158	125-150-183	150-183-217				
			cfm	230-265-282	230-265-300	230-282-318	247-282-335	265-318-388	318-388-459				
	External sta	tic pressure	Pa	0									
Motor	Туре					DC r	notor						
IVIOLOI	Output		kW			0.	05						
Air filte	er					PP Honeycomb fa	bric (long life type)						
Refrige	erant	Gas (Flare)	mm(in.)			ø12.7	(ø1/2)						
pipe di	ameter	Liquid (Flare)	mm(in.)			ø6.35	(ø1/4)						
Field d	rain pipe	diameter	mm(in.)		(O.D. 32 (1-1/4) (PVC p	ipe VP-25 connectable)					
Sound (Lo-Mi	pressure d-Hi)	level *2	dB(A)	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} It is measured in anechoic room at power source 230V.

INDOOR UNIT Ceiling cassette type 2-way airflow

PLFY-P VLMD-E

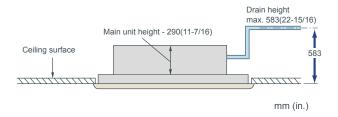


Slim body of 290mm(11-7/16in.) height



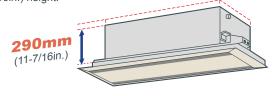
Equipped with drain pump mechanism as standard

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						
Sound pressure	Fan Speed	High		33		36	37	39	39	42	46						
Level									Mid		30		33	34	37	36	39
	-	Low		27		29	31	32	33	36	40						

<220V,240V>

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

<230V>

Fresh air directly taken in

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

Long life filter equipped as standard

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

Easy installation

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



				PLFY-P20VLMD-E	PLFY-P25VLMD-E	PLFY-P32VLMD-E	PLFY-P40VLMD-E					
Power:	source				1-phase 220-240V 50Hz	/ 1-phase 220-230V 60Hz						
Cooling	capacity	, *1	kW	2.2	2.8	3.6	4.5					
Cooming	, capacit	*1	BTU/h	7,500	9,600	12,300	15,400					
Heating	capacit	, *1	kW	2.5	3.2	4.0	5.0					
	y capacit	<u>*1</u>	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	Heating KW Cooling A Heating A		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					
	al finish	Unit			Galvanized steel plate							
(Munse		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)							
HxWxD Panel mm (in.)			mm (in.)		20 x 1080 x 710 (13/16 x 42-9/16 x 28)							
Net wei	iaht	Unit	kg(lbs.)	23 (51)	24	(53)					
TTO WO	igin.	Panel	kg(lbs.)		6.5	(15)						
Heat ex	changer			Cross fin								
	Type x	Quantity			Turbo fan x 1							
	Airflow	rate *2	m³/min		6.5-8.0-9.5		7.0-8.5-10.5					
Fan	(Lo-Mic		L/s		108-133-158		117-142-175					
	<u> </u>		cfm		230-283-335		247-300-371					
		atic pressure	Pa		(
Motor	Туре				1-phase ind							
	Output		kW		0.015 (a							
Air filte					PP honeycomb fal	bric (long life type)						
Refrige		Gas(Flare)	mm(in.)		ø12.7	1 /						
pipe dia		Liquid(Flare)	mm(in.)		ø6.35 (ø1/4)							
	ain pipe o		mm(in.)	O.D.32 (1-1/4)								
	essure level		dB(A)	27-30-33 29-33-36								
(Lo-Mid-H	li) *2 *3	230V	dB(A)		28-31-34		30-34-37					

				PLFY-P50VLMD-E	PLFY-P63VLMD-E	PLFY-P80VLMD-E	PLFY-P100VLMD-E	PLFY-P125VLMD-E		
Power	source			1 LI I I OOVLIND L		50Hz / 1-phase 220-230V		TELLI IZOVENIO E		
		*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		
		*1	kW	6.3	8.0	10.0	12.5	16.0		
Heating	g capacit	y *1	BTU/h	21,500	27,300	34,100	42,700	54,600		
Power		Cooling	kW	0.082 / 0.086	0.101 / 0.105	0.147 / 0.156	0.157 / 0.186	0.28 / 0.28		
consun	nption	Heating	kW	0.075 / 0.080	0.094 / 0.099	0.140 / 0.150	0.150 / 0.180	0.27 / 0.27		
0	4	Cooling	Α	0.41 / 0.43	0.49 / 0.51	0.72 / 0.74	0.75 / 0.88	1.35 / 1.35		
Curren	τ	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-	290 x 1708 x 606 (11-7/16 x 67-1/4 x 23-7/8)			
HxW	x D	Panel	mm (in.)	20 x 1250 x 710 (1	3/16 x 49-1/4 x 28)	20 x 1750 x 710 (13	/16 x 68-15/16 x 28)	20 x 2010 x 710 (13/16 x 79-3/16 x 28)		
Netwo	Net weight Unit kg(lbs.			27 (60)	28 (62)	44 (98)	47 (104)	56 (124)		
Net we	eignt	Panel	kg(lbs.)	7.5	(17)	12.5	13.0 (29)			
Heat ex	xchangei	r				Cross fin				
	Type 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	(Iid2-Mid1-Hi	cfm	318-388-441	353-459-547	547-653-777	618-742-883	848-953-1,059-1,165		
	External sta	atic pressure	Pa			0				
Motor	Туре					1-phase induction motor				
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.			Synthetic fiber unwoven		
All lille					PP 1	noneycomb fabric (long life t	ype)	cloth filter (long life)		
Refrige	erant	Gas (Flare)	mm(in.)	ø12.7 (ø1/2)		ø15.88	s (ø5/8)			
pipe dia	ameter	Liquid (Flare)	mm(in.)	ø6.35 (ø1/4)		ø9.52	(ø3/8)			
Field dr	rain 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	Hi) *2 *3	230V	dB(A)	32-35-38	33-38-40	34-37-40	37-41-43	(Lo-Mid2-Mid1-Hi)		

Notes:

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

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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.

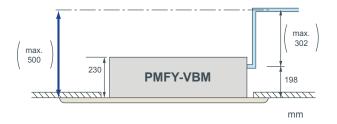
Sound pressure level table

Sound pre	ound pressure level table									
	Capa	city	P20	P25	P32	P40				
Sound		High	35	3	7	39				
pressure	Fan	Mid 1	33	3	6	37				
level	Speed	Mid 2	30	34		35				
		Low	27	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	Iz / 1-phase 220V 60Hz								
Caalina		. *1	kW	2.2	2.8	3.6	4.5							
Cooling	g capacity	y *1	BTU/h	7,500	9,600	12,300	15,400							
Llastin	~it	. *1	kW	2.5	3.2	4.0	5.0							
теаші	g capacit	y *1	BTU/h	8,500	10,900	13,600	17,100							
Power		Cooling	kW	0.042	0.0)44	0.054							
consun	nption	Heating	kW	0.042	0.0)44	0.054							
Curren	+	Cooling	Α	0.20	0.:	21	0.26							
Julien	·	Heating	Α	0.20	0	21	0.26							
Externa	al finish (Munsell N	No.)		White (0.98	Y 8.99/0.63)								
Dimension Unit mm(in.)			mm(in.)		230 x 812 x 395 (9-1/16 x 32 x 15-9/16)									
H x W x D Panel mm(in.)		mm(in.)		30 x 1000 x 470 (1-3/16 x 39-3/8 x 18-9/16)										
Net weight Unit kg(lbs.)		kg(lbs.)		14 ((31)									
NCI WC	igni	Panel	kg(lbs.)		3 (7)									
Heat e	xchanger	•		Cross fin (Aluminum plate fin and copper tube)										
	Type			Line flow fan x 1										
	Airflow	rate *2	m³/min	6.5-7.2-8.0-8.7	7.3-8.0	-8.6-9.3	7.7-8.7-9.7-10.7							
Fan		-Mid1-Hi)	L/s	108-120-133-145	122-133	-143-155	128-145-162-178							
	(LO-WIGZ	-Wild I-I II)	cfm	230-254-283-307	258-283	-304-328	272-307-343-378							
	External st	aticpressure	Pa		(0								
Motor	Туре				1-phase ind	uction motor								
	Output		kW		0.0)28								
Air filte	•				PP Honeyo	comb fabric								
Refrige		Gas(Flare)	mm(in.)		ø12.7	(ø1/2)								
		Liquid(Flare)	mm(in.)		ø6.35	(ø1/4)								
	rain pipe o		mm(in.)		O.D.	26 (1)								
	pressure d2-Mid1-H		dB(A)	27-30-33-35	32-34-	36-37	33-35-37-39							

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

INDOOR UNIT 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.

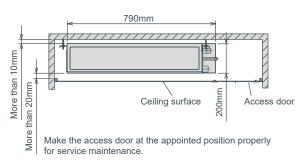
*For places where low noise operation is especially required (i.e. Hotels), VMS1L (without drain pump) is recommended.

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

				DEEY D45\(\(\mathbb{A}\) \(\mathbb{A}\)	DEEY DOOMAGA(I) E	DEEX DOS MONULE	DEEX/ D00\/M04/L\ E	DEEX/ D40\(M04/L) E	DEEX DEOX (MOA/L) E	DEEX DOOMMOA(L) E				
Dower	sourc			PEFY-P15VMS1(L)-E	PEFY-P20VM51(L)-E		0V 50Hz / 1-phase		PEFY-P50VM51(L)-E	PEFY-P63VMS1(L)-E				
rowei	Source	*1	kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1				
Coolin	g capa	city *1	BTU/h	***		=:-	*		***					
		*1	kW	5,800	7,500	9,600	12,300	15,400 5.0	19,100 6.3	24,200				
Heating	g capa	city 1		1.9	2.5	3.2	***			8.0				
_	*3		BTU/h	6,500	8,500	10,900	13,600	17,100	21,500	27,300				
Power	-	Cooling	kW	0.05 [0.03]	0.05 [0.03]	0.06 [0.04]	0.07 [0.05]	0.07 [0.05]	0.09 [0.07]	0.09 [0.07]				
consun	nption	Heating	kW	0.03 [0.03]	0.03 [0.03]	0.04 [0.04]	0.05 [0.05]	0.05 [0.05]	0.07 [0.07]	0.07 [0.07]				
Currer	nt *3	Cooling	Α	0.42 [0.31]	0.47 [0.36]	0.50 [0.39]	0.50 [0.39]	0.56 [0.45]	0.67 [0.56]	0.72 [0.61]				
		Heating	A	0.31 [0.31]	0.36 [0.36]	0.39 [0.39]	0.39 [0.39]	0.45 [0.45]	0.56 [0.56]	0.61 [0.61]				
Extern		h			Galvanized									
Dimen	Dimension mm				200 x 79	200 x 9	90 x 700	200 x 1,190 x 700						
HxW	H x W x D In		ln.		7-7/8 x 31-1	/8 x 27-9/16	7-7/8 x 39	7-7/8 x 46-7/8 x 27-9/16						
Net w	Net weight *3 kg(II		kg(lbs.)		19(42) [18(40)]		24(53)	[23(51)]	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				
	Airfloy		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			L/s	83-100-117	91-108-133	91-117-150	100-133-167	133-158-183	158-183-217	200-233-275				
	(Lo-M	Id-HI)	cfm	176-212-247	194-229-282	194-247-317	212-282-353	282-335-388	335-388-459	424-494-583				
	Externa	I static press	Pa				5-15-35-50		•					
	type						DC motor							
Motor	outpu	t	kW				0.096							
Air filte	r	,				PP Ho	neycomb fabric (was	shable)						
Refrigerant	Gas		mm(in.)			Q	12.7 (ø1/2) Braze	d		ø15.88 (ø5/8) Brazed				
pipe diameter	Liauid		mm(in.)				6.35 (ø1/4) Braze	d		ø9.52 (ø3/8) Brazed				
Field dr	ain pipe	diameter	mm(in.)				O.D. 32 (1-1/4)	•		,				
Sound			, ,				, ,							
(Lo-Mid			dB <a>	22-24-28	23-25-29	24-26-30	24-27-32	28-30-33	30-32-35	30-33-36				
	,	choic room)												
,	nesured in anechoic room)													

^{*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	/MA(L)	20	20 25 32 40 50 63 71 80 100 125 14									
Height	mm						250					
Width	mm		700		90	0		1,100		1,4	100	1,600
Depth	mm						732					

External static pressure

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

External static pressure setting

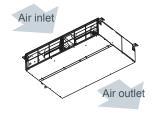
Series	20	25	32	40	50	63	71	80	100	125	140
PEFY-P VMA(L)				35	/50/7	0/100	0/150	Pa			

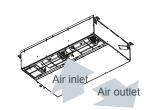


Air Inlet

(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.

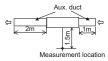


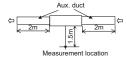
				PEFY-P20VMA(L)-E	PEFY-P25VMA(L)-E	PEFY-P32VMA(L)-E	PEFY-P40VMA(L)-E	PEFY-P50VMA(L)-E
Power	sourc	е			1-p	hase 220-230-240V 50 / 60	Hz	
Cooling	g capa	acity *1	kW	2.2	2.8	3.6	4.5	5.6
(Nomir	nal)	*1	BTU/h	7,500	9,600	12,300	15,400	19,100
Heatin	g capa	acity *2	kW	2.5	3.2	4.0	5.0	6.3
(Nomir	nal)	*2	BTU/h	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	nption	Heating *3	kW	0.04	0.04	0.05	0.07	0.09
Curren		Cooling *3	Α	0.53 [0.42]	0.53 [0.42]	0.55 [0.44]	0.64 [0.53]	0.74 [0.63]
Curren	"	Heating *3	Α	0.42	0.42	0.44	0.53	0.63
Extern	al finis	h				Galvanized steel plate		
Dimon	oion l	H x W x D	mm	250 x 700 x 732	250 x 700 x 732	250 x 700 x 732	250 x 900 x 732	250 x 900 x 732
Dillien	SIOII	1 0 1 10 1	in.	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 35-7/16 x 28-7/8	9-7/8 x 35-7/16 x 28-7/8
Net we	eight		kg(lbs)	23 (51) [22 (49)]	23 (51) [22 (49)]	23 (51) [22 (49)]	26 (58) [25 (56)]	26 (58) [25 (56)]
Heat exchanger					Cross t	fin (Aluminum fin and coppe	r tube)	
	Type x Quantity					Sirocco fan x 1		
	A infla	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	1	/-Mid-High)	L/s	100 - 125 - 142	100 - 125 - 142	125 - 150 - 175	167 - 200 - 233	200 - 242 - 283
ıaıı	(LOW	/-iviiu-migri)	cfm	212 - 265 - 300	212 - 265 - 300	265 - 318 - 371	353 - 424 - 494	424 - 512 - 600
		rnal static sure *4	Pa	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>
Motor	Туре)				DC motor		
IVIOLOI	Outp	out	kW	0.085	0.085	0.085	0.085	0.085
Air filte	er					PP honeycomb fabric.		
		Liquid (R410A)	mm(in.)	6.35 (1/4) Brazed				
Refriger	rant	(R22,R407C)	11111(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 dia	meter	Gas (R410A)	mm(in.)	12.7 (1/2) Brazed				
(R22,R407C) mm(In.) 12.7 (1/2) Brazed 12.7 (1/2	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed				
Field d	Field drain pipe	oe diameter	mm(in.)	O.D.32 (1-1/4)	O.D.32(1-1/4)	O.D.32(1-1/4)	O.D.32 (1-1/4)	O.D.32 (1-1/4)
	•	٠	easured in	anechoic room)				
(Low-N	Λid-Hiو	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	ј сара	city *1	kW	7.1	8.0	9.0	11.2	14.0	16.0		
(Nomin	al)	*1	BTU/h	24,200	27,300	30,700	38,200	47,800	54,600		
Heating	д сара	city *2	kW	8.0	9.0	10.0	12.5	16.0	18.0		
(Nomin	ıal)	*2	BTU/h	27,300	30,700	34,100	42,700	54,600	61,400		
Power		Cooling *3	kW	0.12 [0.10]	0.14 [0.12]	0.14 [0.12]	0.24 [0.22]	0.34 [0.32]	0.36 [0.34]		
consum	ption	Heating *3	kW	0.10	0.12	0.12	0.22	0.32	0.34		
Curren	. [Cooling *3	Α	1.01 [0.90]	1.15 [1.04]	1.15 [1.04]	1.47 [1.36]	2.05 [1.94]	2.21 [2.10]		
Curren	۱ [Heating *3	Α	0.90	1.04	1.04	1.36	1.94	2.10		
Externa	al finis	h			Galvanized steel plate						
Dimone	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 I	1 X W X D	in.	9-7/8 x 43-5/16 x 28-7/8	9-7/8 x 43-5/16 x 28-7/8	9-7/8 x 43-5/16 x 28-7/8	9-7/8 x 55-1/8 x 28-7/8	9-7/8 x 55-1/8 x 28-7/8	9-7/8 x 63 x 28-7/8		
Net we	ight		kg(lbs)	32 (71) [31(69)]	32 (71) [31(69)] 32 (71) [31 (69)] 32 (71) [31 (69)] 42 (93) [41 (91)] 42 (93) [41 (91)]						
Heat exchanger						Cross fin (Aluminum	fin and copper tube)				
	Туре	x Quantity				Sirocco	fan x 2				
	Airflo	w rate	m³/min	13.5 - 16.0 - 19.0	14.5 - 18.0 - 21.0	14.5 - 18.0 - 21.0	23.0 - 28.0 - 33.0	28.0 - 34.0 - 40.0	29.5 - 35.5 - 42.0		
Fan	I	-Mid-High)	L/s	225 - 267 - 317	242 - 300 - 350	242 - 300 - 350	383 - 467 - 550	467 - 567 - 667	492 - 592 - 700		
an	(LOW	-iviid-i iigii)	cfm	477 - 565 - 671	512 - 636 - 742	512 - 636 - 742	812 - 989 - 1,165	989 - 1,201 - 1,412	1,042 - 1,254 - 1,483		
	Exter	rnal static sure *4	Pa	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>		
Motor	Туре					DC r	notor				
IVIOLOI	Outp	ut	kW	0.121	0.121	0.121	0.244	0.244	0.244		
Air filte	r					PP honeyo	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)	11111(111.)	9.52 (3/8) Brazed	9.52 (3/8) Brazed	9.52 (3/8) Brazed	9.52 (3/8) Brazed	9.52 (3/8) Brazed	9.52 (3/8) Brazed		
pipe dia	meter	Gas (R410A)	mm(in.)	15.88 (5/8) Brazed	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 (1-1/4)		
Sound	pressi	٠.	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 Ceiling concealed type

PEFY-P VMH-E2 PEFY-P VMH(S)-E





High Static Pressure

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



High static pressure of 200 Pa or higher

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

PEFY-P	VMH-E2	P40	P50	P63	P71	P80	P100	P125	P140
External static	220V				50/10	0/200			
pressure (Pa)	230/240V				100/15	50/200			

PEFY-P	VMH-E	P200 P250			
External static	380V	110/220			
pressure (Pa)	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)

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

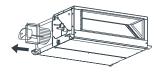
IT terminal

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

One-side maintenance

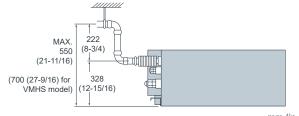
All maintenance to the unit, including fan inspection and fan motor removal, can be conducted from the inspection opening on one side.





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.)

				1	1			1	1		
				PEFY-P40VMH-E2	PEFY-P50VMH-E2	PEFY-P63VMH-E2	PEFY-P71VMH-E2	PEFY-P80VMH-E2	PEFY-P100VMH-E2	PEFY-P125VMH-E2	PEFY-P140VMH-E2
Power	source					1-phas	e 220-230-240V	50Hz /60Hz			
Cooling capacity		*1	kW	4.5	5.6	7.1	8.0	9.0	11.2	14.0	16.0
Cooming	y capacii	1	BTU/h	15,400	19,100	24,200	27,300	30,700	38,200	47,800	54,600
Llastine		*3	kW	5.0	6.3	8.0	9.0	10.0	12.5	16.0	18.0
Heating capacity *		y *3	BTU/h	17,100	21,500	27,300	30,700	34,100	42,700	54,600	61,400
Power	*2	Cooling	kW	0.055	0.055	0.090	0.075	0.090	0.160	0.160	0.190
consun	nption	Heating	kW	0.055	0.055	0.090	0.075	0.090	0.160	0.160	0.190
Cuman	. *2	Cooling	Α	0.39	0.39	0.62	0.52	0.61	1.01	1.01	1.19
Curren	ι	Heating	Α	0.39	0.39	0.62	0.52	0.61	1.01	1.01	1.19
Externa	al finish						Galvanized steel	plate	•		
D:		\\ D	mm	380 x 745 x 900	380 x 745 x 900	380 x 745 x 900	380 x 1,030 x 900	380 x 1,030 x 900	380 x 1,195 x 900	380 x 1,195 x 900	380 x 1,195 x 900
Dimens	sion H x	W X D									
Net we	Net weight		kg(lbs.)	35 (78)	35 (78)	35 (78)	45 (100)	45 (100)	51 (113)	51 (113)	53 (117)
Heat ex	xchangei	r		Cross fin (Aluminum plate fin and copper tube)							
Type x Quantity					Sirocco fan x 1		Sirocco fan x 2				
	Airflow		m³/min	10.0 - 14.0	10.0 - 14.0	13.5 - 19.0	15.5 - 22.0	18.0 - 25.0	26.5 - 38.0	26.5 - 38.0	28.0 - 40.0
F	(Lo-Hi)	rate	L/s	167 - 233	167 - 233	225 - 317	258 - 367	300 - 417	442 - 633	442 - 633	467 - 667
Fan	(LO-HI)		cfm	353 - 494	353 - 494	477 - 671	547 - 777	636 - 883	936 - 1342	936 - 1342	989 - 1412
*4	External static	pressure	Pa	50 - 100 - 150 - 200							
Motor	Туре			DC Motor							
IVIOTOR	Output		kW	0.121	0.121	0.121	0.244	0.244	0.375	0.375	0.375
Air filte	Air filter (option)				Synthetic fibe	r unwoven cloth f	ilter (long life filte	r and filter box ar	e recommended.))	
Refrige	rant	Gas	mm(in.)	12.7 (1/2)Brazed	12.7 (1/2)Brazed	15.88 (5/8)Brazed	15.88 (5/8)Brazed	15.88 (5/8)Brazed	15.88 (5/8)Brazed	15.88 (5/8)Brazed	15.88 (5/8)Brazed
pipe dia	ameter	Liquid	mm(in.)	6.35 (1/4)Brazed	6.35 (1/4)Brazed	9.52 (3/8)Brazed	9.52 (3/8)Brazed	9.52 (3/8)Brazed	9.52 (3/8)Brazed	9.52 (3/8)Brazed	9.52 (3/8)Brazed
Field dr	ain pipe	diameter	mm(in.)				O.D. 32 (1-1/4	1)	·		
Sound	pressure		dB(A)	20-23-27	20-23-27	24-27-32	24-26-30	25-27-30	27-31-34	27-31-34	27-32-36
level (Le	o-Hi) *2										

				PEFY-P200VMH-E	PEFY-P250VMH-E	PEFY-P200VMHS-E	PEFY-P250VMHS-E	
Power source				3-phase 380-415V 50Hz	z / 3N ~ 380-415V 60Hz	1-phase 220-240V 50Hz / 1-phase 220-240V 60Hz		
0 1:		*1	kW	22.4	28.0	22.4	28.0	
Cooling	g capacit		BTU/h	76,400	95,500	76,400	95,500	
I I		*3	kW	25.0	31.5	25.0	31.5	
Heating	g capacit	y *3	BTU/h	85,300	107,500	85,300	107,500	
Power	*2	Cooling	kW	0.99 / 1.14	1.23 / 1.41	0.63	0.82	
consun	consumption He		kW	0.99 / 1.14	1.23 / 1.41	0.63	0.82	
	Cooling	380-415V	Α	1.62 / 1.86	2.00 / 2.30	_	_	
Current	Cooling	220-230-240V	Α	_	_	3.47-3.32-3.18	4.72-4.43-4.14	
	Heating	380-415V	Α	1.62 / 1.86	2.00 / 2.30	_	_	
2	licating	220-230-240V	Α	_	_	3.47-3.32-3.18	4.72-4.43-4.14	
Externa	al finish			Galva		Galvanized	d steel plate	
Dimen	sion H x	W v D	mm	470 x 1,25	50 x 1,120	470 x 1,2	50 x 1,120	
Dilliens	SIOII II X	WXD	in.	18-9/16 x 49			-1/4 x 44-1/8	
Net we	ight		kg(lbs.)	100 (,	97 (214)	100 (221)	
Heat ex	xchangei			Cross fin (Aluminum pla		, ,	ate fin and copper tube)	
	Type x Quantity Airflow rate			Sirocco	fan x 2	Sirocco fan x 2		
			m³/min	58.0	72.0	_	_	
			L/s	967	1200	_	_	
			cfm	2048	2543	_	_	
			m³/min	_	_	50.0-61.0-72.0	58.0-71.0-84.0	
Fan		Lo-Mid-Hi	L/s	_	_	833-1017-1200	967-1183-1400	
			cfm	_	_	1766-2154-2542	2048-2507-2966	
		380V	Pa	<110>			_	
*4	External static	400,415V	Pa	<130	>-260		_	
	pressure Pa mmH ₂ O				-	<50>-<100>-150-<200>-<250>		
			mmH₂O	-	-	<5.1>-<10.2>-15.3-<20.4>-<25.5>		
Motor	Туре			3-phase indu			motor	
WOO	Output kW		kW	0.76 *5	1.08 *5	0.87	0.87	
Air filte	r(option)			Synthethic fiber unwov	en cloth filter (long life)	Synthethic fiber unwoven cloth filter (long	life filter and filter box are recommended.)	
Gas Refrigerant (Braz		Gas (Brazed)	mm(in.)	ø19.05 (ø3/4)	ø22.2 (ø7/8)	ø19.05 (ø3/4)	ø22.2 (ø7/8)	
pipe dia	ameter	Liquid (Brazed)	mm(in.)	ø9.52	(ø3/8)	ø9.52 (ø3/8)		
Field dr	ain pipe	diameter	mm(in.)	O.D. 32	(1-1/4)	O.D. 32	2 (1-1/4)	
0		380V	dB(A)	42 (110Pa) / 45 (220Pa)	50 (110Pa) / 52 (220Pa)	_	_	
Sound p	pressure *2	400,415V	dB(A)	44 (130Pa) / 47 (260Pa)	52 (130Pa) / 54 (260Pa)	_	_	
		Lo-Mid-Hi	dB(A)	·		36-39-43	39-42-46	

^{*1} Nominal cooling conditions Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Outdoor: 35°CD.B. (95°FD.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

^{*2} The values are measured at the factory setting of external static pressure.

^{*3} Nominal heating conditions Indoor: 20°CD.B. (68°FD.B.), Outdoor: 7°CD.B./6°CW.B. (45°FD.B./43°FW.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

^{*4} The factory setting of external static pressure is shown without < >.
Refer to "Fan characteristics curves", according to the external
static pressure, in DATA BOOK for the usable range of air flow rate.

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.

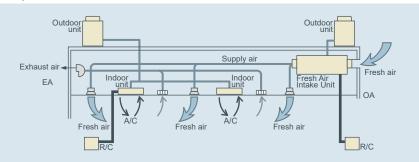
The Fresh Air intake indoor unit can take fresh outdoor air into any building in any place.

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 +1	kW	9.0	16.0			
ļ.,	J	y *1 *1	BTU/h	30,700	54,600			
Heating	g capacit	y *1	kW BTU/h	8.5 29,000	15.1 51,500			
Power		Cooling	kW	0.16 / 0.21	0.29 / 0.33			
consumption Heating kW			0.16 / 0.21	0.29 / 0.33				
			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				
Dimen	sion		mm/in)	380 x 1000 x 900	380 x 1200 x 900			
H x W			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 plate fin and copper tube)				
	Type x	Quautity	m³/min	Sirocco fan x 1 9.0	Sirocco fan x 2 18.0			
	Airflow	rate	L/s	150	300			
	Airiow	Tale	cfm	318	636			
Fan	External	208V	Pa	35 - 85 - 170	35 - 85 - 170			
	static	220V	Pa	40 - 115 - 190	50 - 115 - 190			
	pressure	230V	Pa	50 - 130 - 210	60 - 130 - 220			
	(Lo-Mid-Hi)		Pa	80 - 170 - 220	100 - 170 - 240			
Motor	Туре			1-phase indu	iction motor			
Motor	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	(2000)			
pipe di	ameter	Liquid (Flare)	mm(in.)	ø9.52	(ø3/8)			
Field d	rain pipe	(/	mm(in.)	O.D.32 (1-1/4)				
	essure level		dB(A)	27 - 38 - 43	28 - 38 - 43			
(Lo-Mid-H		230, 240V	dB(A)	33 - 43 - 45	34 - 43 - 45			
(LO INIG I	, -		()					
				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	2 / 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	ity	BTU/h kW BTU/h	3-phase 380-415V 50Hz 22.4 76,400 21.2 72,300	2 / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400			
Coolin Heatin Power	g capac g capac	ity	BTU/h kW BTU/h kW	3-phase 380-415V 50Hz 22.4 76,400 21.2 72,300 0.34 / 0.42	28.0 95,500 26.5 90,400 0.39 / 0.50			
Coolin Heatin Power consu	g capac g capac umption	ity 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	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			
Coolin Heatin Power consu Currer Extern	g capac g capac umption nt	ity Cooling Heating Cooling	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	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	ity Cooling Heating Cooling	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	28.0 95,500 26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86			
Coolin Heatin Power consu Currer Extern Dimen H x W	ig capaces ig capaces imption int ial finish ision x D	ity Cooling Heating Cooling	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-	28.0 95,500 26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 nized 0 x 1120 1/4 x 44-1/8)			
Power consu Currer Extern Dimen H x W Net we	g capac g capac umption nt ial finish ision x D	ity 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 (18-9/16 x 49-100) (100)	28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 nized 0 x 1120 1/4 x 44-1/8)			
Power consu Currer Extern Dimen H x W Net we	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	28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 nized 0 x 1120 1/4 x 44-1/8) 221) tte fin and copper tube)			
Power consu Currer Extern Dimen H x W Net we	ng capac ng capac numption nt nal finish nsion x D eight exchange	ity Cooling Heating Cooling Heating	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-	28.0 95,500 26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 nized 0 x 1120 1/4 x 44-1/8) 221) tet fin and copper tube) fan x 2			
Power consu Currer Extern Dimen H x W Net we	g capace graph of the state of	ity Cooling Heating Cooling Heating 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	28.0 95,500 26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 nized 0 x 1120 1/4 x 44-1/8) 221) tte fin and copper tube)			
Power consu Currer Extern Dimen H x W Net we	ng capac ng capac numption nt nal finish nsion x D eight exchange	ity Cooling Heating Cooling Heating 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 pla Sirocco	28.0 95,500 26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 nized 0 x 1120 1/4 x 44-1/8) 221) tet fin and copper tube) fan x 2			
Coolin Heatin Power consu Currer Exterm Dimen H x W Net we Heat e	g capace graph of the state of	ity Cooling Heating Cooling Heating Heating Couling Cooling 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 0 x 1120 11/4 x 44-1/8) 221) tet 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	ity Cooling Heating Cooling Heating Heating Couling Cooling 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	28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 nized 0 x 1120 1/4 x 44-1/8) 221) tet 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 Heating Cooling Heating Heating array	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) Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200 150 / 210 160 / 220	28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.120 1/4 x 44-1/8) 221) tet 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 lad finish lision x D light exchange Type x Airflow External static pressure	Cooling Heating Cooling Heating Heating Cooling Heating Heating array	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 inde	28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.120 11/4 x 44-1/8) 221) Itle 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 mm(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	28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.6120 0 x 1120 11/4 x 44-1/8) 221) ste fin and copper tube) fan x 2 35 583 1236 110 / 190 120 / 200 130 / 210 section 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 Heating Per Quautity rate 380V 400V 415V	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 inde	28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.6120 0 x 1120 11/4 x 44-1/8) 221) ste fin and copper tube) fan x 2 35 583 1236 110 / 190 120 / 200 130 / 210 section motor 0.23			
Coolin Heatin Power consu Currer Extern Dimen H x W Net we Heat e	g capac g capac g capac umption nt lal finish sision x D eight exchange Type x Airflow External static pressure Type Output er (option	Cooling Heating Cooling Heating Heating Heating Heating Heating Guautity rate 380V 400V 415V	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	28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.6120 0 x 1120 11/4 x 44-1/8) 221) ste fin and copper tube) fan x 2 35 583 1236 110 / 190 120 / 200 130 / 210 section motor 0.23			
Coolin Heatin Power consu Currer Extern Dimen H x W Net we Heat e	g capac g capac umption nt all finish ision beight exchange Type x Airflow External static pressure Type Output er (optice erant	Cooling Heating Cooling Heating Heating Washing Heating Heating Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Res	BTU/h kW BTU/h kW kW A A mm(in.) kg(lbs.) m³/min L/s cfm Pa Pa R	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	28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.12ed 0 x 1120 114 x 44-1/8) 221) ste fin and copper tube) fan x 2 35 583 1236 110 / 190 120 / 200 130 / 210 settion motor 0.23 cloth filter (long life type)			
Coolin Heatin Power consu Currer Extern Dimen H x W Net we Heat e	g capac g capac g capac umption nt lal finish sision x D eight exchange Type x Airflow External static pressure Type Output er (option	Cooling Heating Cooling Heating Heating Gouautity rate 380V 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	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	28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.120 1/4 x 44-1/8) 221) tet fin and copper tube) fan x 2 35 583 1236 110 / 190 120 / 200 130 / 210 Justion 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 Per Quautity rate 380V 400V 415V Gas (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	28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 nized 0 x 1120 1/4 x 44-1/8) 221) tite 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)			
Power consultation of the	g capac g capa	Cooling Heating Cooling Heating Heating Heating Heating Heating Government of the Cooling Heating Heat	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)	28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 nized 00 x 1120 114 x 44-1/8) 221) tet 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) ((63/8) (11-1/4)			
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	Cooling Heating Cooling Heating Heating Guautity rate 380V 415V 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	28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.12ed 0 × 1120 114 × 44-1/8) 221) Ite 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) (Ø3/8) ((1-1/4) 40 / 44			
Power consultation of the	g capac g capa	Cooling Heating Cooling Heating Heating Heating Heating Heating Government of the Cooling Heating Heat	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)	28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 nized 00 x 1120 114 x 44-1/8) 221) tet 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) ((63/8) (11-1/4)			

Notes:

- 1. The cooling and heating capacites are the maximum capacites that were obitained by operating in the above air conditions and with a refrigerant pipe of about 7.5m.
- 2. The actual capacity characteristics vary with the combination of indoor and outdoor units. See the technical infomation.

 3. The operating noise is the data that was obitained by measuring it 1.5m from the the bottom of the unit in an anechoic room. (Noise meter A-scale value)

 4. The figure of Electrical characteristic indicates at 240V 50Hz/280V60Hz (PEFY-P80, 140VMH-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 (Heating: from 10°C(14°F)DB to 20°C(68°F)DB in cooling mode or when the temperature exceeds 20°C(68°F)DB in heating mode.

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

 7. As the room temp in sensed by the thermo in the remote controller or the one in the room, be sure to use either remote controller or room thermo.

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

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

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

 11. Un-conditioned outdoor air such as humid air or cold air blows to the indoor during thermo off operation.

 Please be careful when positioning indoor unit air outlet grilles, ie take the necessary precautions for cold air, and also insulate rooms for dew condensation prevention as required.

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

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

Indoor Unit

INDOOR UNIT Fresh Air Intake Type

PEFY-P VMHS-E-F

Fresh Air Intake

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

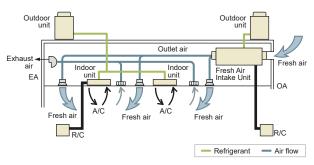




Enables Intake of Outside Air

Fresh air can be taken in with temperature control. Fresh air intake is available for each air-conditioning zone.

*Fresh air intake type indoor unit is designed to supply pretreated outside air into the room. Do not use to handle internal thermal load.



Flexible Air-Flow Setting

Four levels of external static pressure levels to choose from compared to the three levels on the existing models

Model	P125	P200	P250
External static pressure (Pa)	<100>	-<150>-200-	<250>

^{*}The factory setting of external static pressure is shown without chevrons "< >".

Two types of air-flow modes are available, each of which has three air-flow rates to choose from.

Mode	Normal-airflow rate	High-airflow rate		
Air-flow rate	Low-Medium-High	Low-Medium-High		

^{*}Air-flow rates are accessible from the remote controller.

Controllable Outlet Air Temperature

Pre-treating the intake air before being supplied to the room contributes to the stability of room temperature, ensuring optimized comfort of the occupants.

*Outlet air temperature may fluctuate, depending on the outside air temperature and the operating status of indoor and outdoor units.

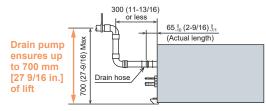
Equipped with New Fan Motor

Fan motor has been changed to higher efficiency DC motor. Power source has been changed from three-phase power supply to single-phase power supply, which allows for easier installation.

*Comparison with PEFY-P140, 200, 250VMH-E-F

Drain Pump (Optional)

Greater design flexibility made possible by the increased head height (Max. 700 mm)*



*Comparison with drain pump PAC-KE04DM-F



			PEFY-P125	VMHS-E-F	PEFY-P200	VMHS-E-F	PEFY-P250VMHS-E-I	 *6	
Power source			1-phase 220-230-240 V 50/60 Hz						
	*4	kW	14	.0	22	1.4	28	3.0	
Cooling Capacit	у '	BTU/h	47,8	300	76,4	400	98,	500	
	*2	kW	8.	9	13	.9	17	'.4	
Heating Capacit	y -	BTU/h	30,4	100	47,4	400	59,	400	
Power	Cooling	kW	0.2	20	0.2	60	0.3	50	
Consumption *3	Heating	kW	0.2	30	0.2	70	0.3	60	
Current	Cooling	Α	1.4	13	1.0	66	2.	16	
Current	Heating	Α	1.5	52	1.8	85	2.	38	
External finish				Galvanised					
Dimensions (WxDxH) [mm]		[mm]	380 x 1195 x 900		470 x 1250 x 1120		470 x 1250 x 1120		
Net weight		[kg] (lbs.)	49 (109) 78 (172)		81 (179)			
Heat exchanger				Cross fin (Aluminium fin and copper tube)					
	Type x Quantity		Sirocco fan x 1						
			Nominal airflow rate	High airlfow rate	Nominal airflow rate	High airlfow rate	Nominal airflow rate	High airlfow rate	
	A:	m³/min	14.0 - 15.5 - 18.0	15.5 - 18.0 - 20.0	22.5 - 25.0 - 28.0	25.0 - 28.0 - 32.0	28.0 - 31.0 - 35.0	31.0 - 35.0 - 40.0	
Fan *4,5	Airflow rate (Lo-Hi)	L/s	167 - 200 -233	258 - 300 - 333	375 - 417 - 467	417 - 467 - 533	467 - 517 - 583	517 - 583 - 667	
	(LO-III)	cfm	353 - 424 -494	547 - 636 - 706	794 - 883 - 989	883 - 989 - 1130	989 - 1095 - 1236	1095 - 1236 - 1412	
	External static pressure	Pa			50 - 100 -	150 - 200			
Motor	Туре				DC N	Notor			
IVIOLOI	Output	kW	0.2	44	0.3	75	0.3	375	
Air filter				C	ption: Long life filter an	filter box recommend	ed		
Refrigerant pipe Gas (flare) mm		mm	15.88 (5/8	B) Brazed	15.88 (5/8	3) Brazed	22.22 (7/	8) Brazed	
diameter Liquid (flare) mm		mm	9.52 (3/8) Brazed 9.52 (3/8) Brazed			9.52 (3/8) Brazed		
Field drain pipe	diameter				O.D. 32	(1-1/4)			
Sound pressure (Lo-Mid-Hi-Shi)	level *2	dBA	34 - 37 - 41	36-40-42	35-38-41	36-39-42	38-40-44	38-41-45	

Notes:

- *1 Cooling capacity indicates the maximum value at operation under the following condition. Cooling: Indoor 33°CDB/28°CWB, Outdoor 33°CDB. The set temperature of the remote controller is 18°C.
- *2 Heating capacity indicates the maximum value at operation under the following condition. Heating: Indoor 0°CDB/-2.9°CWB, Outdoor 0°CDB/-2.9°CWB. The set temperature of the remote controller is 25°C.
- *3 The value are measured at the factory setting of airflow mode and external static pressure.
- *4 The factory setting of airflow mode and external static pressure mode is shown without < >. Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.
- *5 If the airflow rate is over the usable range, dew drop can be caused from the air outlet and the air flow rate is changed automatically because of the output down by the fan motor control. If the air flow rate is less than the usable range, condensation from the unit surface can be caused.
- *6 Regarding P250VMHS-E-F, the middle notch air flow rate is different from the spec value when the external static pressure setting is set to 100Pa. See "Fan characterics curves" in DATA BOOK for the details.
- The combination of fresh air intake type indoor units with other types of indoor units to handle internal thermal load which may cause the conflict of operation mode. It is not recommended when fresh air intake type indoor unit is connected to the Y or WY series.
- Depending on the air conditioning load, outside temperature, and due to the activation of protection functions, the desired preset temperature may not always be achieved and the discharge temperature may swing. Note that untreated outside air may be delivered directly into the room upon the activation of protection functions.
- Fresh air intake type indoor units cannot be connected to PUMY and cannot be connected to an outdoor unit together with PWFY series.
- The maximum connectable indoor units to 1 outdoor unit are 110% (100% in case of heating below -5°C).
- When fresh air intake type indoor units connect to an outdoor unit together with other types of indoor unit, the total capacity of fresh air intake type indoor units needs to be 30% or less of the connected outdoor unit capacity.
- The AUTO mode on the local remote controller is available only when fresh air intake type indoor unit is connected to the R2 or WR2 series of outdoor unit
- The system changeover function is available only when all the connected indoor units are fresh air intake type indoor units.

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)

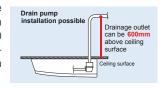
	Standard	High ceiling
Ceiling height	3.0(9-13/16)	4.2(13-3/4)

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

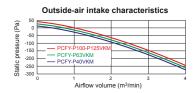
The pumping height of the optional drain pump has been increased from 400 mm to 600 mm, expanding flexibility in choosing unit location during installation work.



Outside-air intake

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

m (ft)



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 50H	z / 1-phase 220V 60Hz			
0		*1	kW	4.5	7.1	11.2	14.0		
Cooling	g capacit	y *1	BTU/h	15,400	24,200	38,200	47,800		
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	ι	Heating	Α	0.28	0.33	0.65	0.76		
Externa	al finish(l	Munsell N	10.)		6.4Y 8	9/ 0.4			
Dimon	sian II.v	W . D	mm	230 x 960 x 680	230 x 1,280 x 680	230 x 1,6	600 x 680		
Dimension H x W x D in.		in.	9-1/16 x 37-13/16 x 26-3/4	9-1/16 x 50-3/8 x 26-3/4	9-1/16 x 63 x 26-3/4				
Net we	ight		kg(lbs.)	24(53)	32 (71)	36 (79)	38 (84)		
Heat ex	xchangei	-			Cross fin (Aluminum	fin and copper tube)			
	Quantity		Sirocco fan x 2	Sirocco fan x 3	Sirocco	fan x 4			
	Airflow	*2	m³/min	10-11-12-13	14-15-16-18	21-24-26-28	21-24-27-31		
Fan	(Lo-Mid2		L/s	167-183-200-217	233-250-267-300	350-400-433-467	350-400-450-517		
	(LU-IVIIUZ-	-iviiu i-mi)	cfm	353-388-424-459	494-530-565-636	742-847-918-989	742-847-953-1,095		
	External sta	atic pressure	Pa		0	0			
N4-4	Туре				DC m	otor			
Motor	Output		kW	0.090	0.095	0.1	60		
Air filte	r				PP Honeycor	nb (long life)			
Refrige	erant	Gas (Flare)	mm(in.)	ø12.7 (ø1/2)	ø15.88 (ø5/8)	ø15.88 (ø5/8) / ø19.0	5 (ø3/4) (Compatible)		
pipe di	ameter	Liquid (Flare)	mm(in.)	ø6.35 (ø1/4)	ø9.52 (ø3/8)				
Field dr	ain pipe	diameter	mm(in.)		O.D. 2	26 (1)			
	pressure 2-Mid1-H		dB(A)	29-32-34-36	31-33-35-37	36-38-41-43 36-39-42-44			

Notes:

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

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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										

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.



PKFY-P VHM features

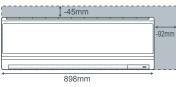
Compatible with Blue Diamond Condensate Pumps





Compact size of 898mm

Width size reduced to match small size buildings and offices.



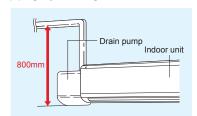
Comparison with PKFY-P VGM-E

Light unit

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

Drain pump (option)

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



				PKFY-P15VBM-E	PKFY-P20VBM-E	PKFY-P25VBM-E	PKFY-P32VHM-E	PKFY-P40VHM-E	PKFY-P50VHM-E
Power	source					1-phase 220-240V 50H	lz / 1-phase 220V 60Hz		'
0 1:		. *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
Llaatina		*1	kW	1.9	2.5	3.2	4.0	5.0	6.3
пеаші	g capaci	^{ty} *1	BTU/h	6,500	8,500	10,900	13,600	17,100	21,500
Power	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	ŀ	leating	Α		0.20			0.30	
Externa	al finish(Munsell N	lo.)		Plastic (1.0Y 9.2/0.2)			Plastic (1.0Y 9.2/0.2)	
Dimens	sion H x	WxD	mm(in.)	295 x 815	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)			13(29)	
Heat ex	kchange	er				Cross fin (Aluminum	fin and copper tube)		
	Туре х	Quantity				Line flow	w fan x 1		
	Airflow	irflow rate *2 m³/n L/s		4.9-5.0-5.2-5.3	4.9-5.2	-5.6-5.9	9-10-11	9-10.5-11.5	9-10.5-12
Fan				82-83-87-88	82-87-93-98		150-167-183	150-175-192	150-175-200
	`		cfm	173-177-184-187	173-184-	-198-208	318-353-388	318-371-406	318-371-424
	External st	tatic pressure	Pa			(0		
Motor	Туре			1	-phase induction motor	r	DC motor		
IVIOLOI	Output		kW		0.017			0.030	
Air filter	r					PP Hon	eycomb		
		Gas	mm(in.)			ø12.7 (ø1/2)			ø12.7 (ø1/2) / ø15.88 (ø5/8)
Refrige	rant	(Flare)	11111(111.)			Ø12.7 (Ø1/2)			(Compatible)
pipe dia	ameter	Liquid	mm(in.)	Ø6.35 (Ø1/4)					ø6.35 (ø1/4) / ø9.52 (ø3/8)
		(Flare)	` ′		νο.33 (ν1/4)				
Field dr	ain pipe	diameter	mm(in.)			I.D.16	6 (5/8)		
	Sound pressure level					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 50	1-phase 220-230-240V 50Hz / 1-phase 220V 60Hz				
0 !:		*1	kW	7.1	11.2				
Cooling capacity *1		y *1	BTU/h	24,200	38,200				
*1			kW	8.0	12.5				
Heating	g capacit	^{ty} *1	BTU/h	27,300	42,600				
Power	С	ooling *4	kW	0.05	0.08				
consur	nption H	eating	kW	0.04	0.07				
0	, C	ooling *4	Α	0.37	0.58				
Curren	ιτ H	eating	Α	0.30	0.51				
Externa	al finish(I	Munsell N	lo.)	Plastic (1.0)Y 9.2/0.2)				
Dimen	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	eight		kg(lbs.)	21 (46)					
Heat e	xchange	r		Cross fin (Aluminum	fin and copper tube)				
	Type x	Type x Quantity		Line flow	y fan x 1				
	Airflow	rate *2	m³/min	16-20	20-26				
Fan	(Lo-Hi)		L/s	267-333	333-433				
	(LO-HI)		cfm	565-706	706-918				
	External sta	atic pressure	Pa	C					
Motor	Туре			DC n	notor				
IVIOLOI	Output		kW	0.0	56				
Air filte	er			PP Hone	•				
		Gas	mm(in.)	ø15.88 (ø5/8)	ø15.88 (ø5/8) / ø19.05 (ø3/4)				
Refrige	erant	(Flare)	11111(111.)	#15.50 (#5/0)	(Compatible)				
pipe di	ameter	Liquid (Flare)	mm(in.)	ø9.52 (ø3/8)					
Field di	rain pipe	diameter	mm(in.)	I.D. 16	6(5/8)				
Sound (Lo-Hi)	Sound pressure level		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 facade. 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-EF25VE2W/B/S	MSZ-EF35VE2W/B/S	MSZ-EF42VE2W/B/S	MSZ-EF50VE2W/B/S			
Power source			Single phase 230 V, 50 Hz						
0 1: 0		kW	2.5	3.5	4.2	5			
Cooling Capac	ity	BTU/h	8,530	11,942	14,330	17,060			
Heating Capac	34	kW	3.2	4	5.4	5.8			
nealing Capac	aty	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 19	95 x 299				
Net weight		[kg]	11.5						
Heat exchange	er		Cross fin (Aluminum fin and copper tube) Line flow fan x 1						
	Type x Quantity								
	Airflow rate Cooling (SLo-SHi)	m³/min	4.0-4.6-6.	3-8.3-10.5	5.8-6.6-7.7-8.9-10.3	5.5-6.8-7.9-9.3-11			
Fan	Airflow rate Heating(SLo-SHi)	m³/min	4.0-4.6-6.2-8.9-11.9	4.0-4.6-6.2-8.9-12.7	5.5-6.3-7.8-9.9-12.7	6.4-7.3-9-11.1-13.7			
	External static pressure	Pa							
	Type			RC0J50 -	DC motor				
Fan Motor	Current	Α	0.14/0.26	0.14/0.30	0.14/0.30	0.18/0.32			
Air filter				Nano P	latinum				
Refrigerant	Gas (flare)	mm		9.52		12.7			
pipe diameter	Liquid (flare)	mm		6.:	35				
Field drain pipe	e diameter			I.D. 1	5mm				
Sound pressur (SLo-Lo-Mid-H		dBA	21-23-29-36-42	21-24-29-36-42	28-31-35-39-42	30-33-36-40-43			
Sound pressur (SLo-Lo-Mid-H	e level Heating i-Shi)	dBA	21-24-29-37-45	21-24-30-38-46	28-30-35-41-48	30-33-37-43-49			

INDOOR UNIT Wall Mounted Type



MSZ-FH Deluxe FH Series and PAC-LV11M-J External LEV Kit*

The Deluxe FH Series advanced features provide unparalled comfort and energy efficiency. Plasma Quad Filtration, the advanced 3D i-see Sensor, Dual Split Vanes and the Natural Airflow Function set the benchmark in customised comfort.

Energy Saving Intelligent Sensor

The 3D i-see Sensor is an intelligent occupancy sensor that, after a set period of absence, will switch to Energy Saving Mode. This raises or lowers the set temperature by 2°C as required, leading to greater energy savings.

Superior Filtration

The Deluxe FH Series unique split vane design allows airflow to be customised to suit different areas of the room by independently directing air upwards, downwards or to the side. This flexibility can also prevent air from striking obstacles or direct air to areas that require additional heating or cooling. Split Vane Airflow provides fast, even and effective heating, while also being a feasible solution in multi-level environments.

► Specifications

			MSZ-FH25VE	MSZ-FH35VE	MSZ-FH50VE		
Power source			Single phase 230 V, 50 Hz				
0 11 0	.,	kW	2.5	3.5	5		
Cooling Capacity		BTU/h	8,530	11,942	16,378		
Lleating Cana	nit.	kW	3.2	4.0	6.0		
Heating Capac	ily	BTU/h	10,918	13,648	20,472		
Power	Cooling	kW	0.0)29	0.031		
Consumption	Heating	kW	0.0)29	0.031		
Current	Cooling	Α	0.:	28	0.29		
Current	Heating	Α	0.:	28	0.29		
External finish				White			
Dimensions (V	VxDxH)	[mm]		925 x 234 x 305(+17)			
Net weight		[kg]	13.5				
Heat exchange	er		Cross	fin (Aluminum fin and coppe	r tube)		
	Type x Quantity						
	Airflow rate Cooling (SLo-SHi)	m³/min	3.9-4.7-6.3-8.6-11.6		6.4-7.4-8.6-10.1-12.4		
Fan	Airflow rate Heating(SLo-SHi)	m³/min	4.0-4.7-6.4-9.2-13.2		5.7-7.2-9.0-11.2-14.6		
	External static pressure	Pa		N/A			
Fan Motor	Туре			RC0J50 - DC motor			
Fan Motor	Current	Α		0.28 / 0.30			
Air filter				Plasma Quad Filter			
Refrigerant	Gas (flare)	mm	9.	52	12.7		
pipe diameter	Liquid (flare)	mm		6.35			
Field drain pip	e diameter			O.D. 16mm			
Sound pressur (SLo-Lo-Mid-H	re level Cooling li-Shi)	dBA	20-23-29-36-42	21-24-29-36-42	27-31-35-39-44		
Sound pressur (SLo-Lo-Mid-F	re level Heating li-Shi)	dBA	20-24-29-36-44	21-24-29-36-44	25-29-34-39-46		

INDOOR UNIT Wall Mounted Type



MSZ-GE Classic GE Series and PAC-LV11M-J External LEV Kit*

The Classic GE Series is a testament to exeptional product quality, reliability and unrivalled for quietness.

New Zealand's Quietest Het Pumps

Starting from barely a whisper, our Classic GE Series allows you to feel the warmth, not hear it. The GE25 and GE35 indoor units start from a hushed 19dBA on their lowest fan speed in Heating Mode.

Wide and Long Airflow (GE60/71/80)

The Wide and Long Airflow Modes enables the airflow direction to be adjusted from left to right and is ideal for open plan environments; ensuring every corner of the room is comfortable. The Long Mode extends airflow by up to 12m to reach even the furthest point of open plan or larger living spaces.

These modes are simply activated at the touch of a button on your remote controller.

► Specifications

						,						
			MSZ-GE25VAD2	MSZ-GE35VAD2	MSZ-GE42VAD2	MSZ-GE50VAD2	MSZ-GE60VAD	MSZ-GE71VAD**	MSZ-GE80VAD**			
Power source			Single phase 230 V, 50 Hz									
		kW	2.5	3.5	4.2	5	6	7.1	7.8			
Cooling Capa	city	BTU/h	8,530	11,942	14,330	16,378	20,472	24,226	26,614			
		kW	3.0	4.0	5.4	5.8	6.8	8.1	9.0			
Heating Capa	city	BTU/h	10,236	13,648	18,425	19,790	23,202	27,638	30,709			
Power	Cooling	kW	0.022	0.	029	0.043	0.048	0.058	0.058			
Consumption	Heating	kW	0.0)23	0.030	0.039	0.062	0.058	0.058			
	Cooling	Α	0.22	0	.29	0.39	0.43	0.51	0.51			
Current	Heating	Α	0.	23	0.31	0.36	0.53	0.51	0.51			
External finish	1					White		•				
Dimensions (\	WxDxH)	[mm]		798 x 2	232 x 295		110	00 x 238 x 325				
Net weight [kg]				10 16								
Heat exchang	er			Cross fin (Aluminum fin and copper tube)								
	Type x Quantity			Line flow fan x 1								
	Airflow rate Cooling (SLo-SHi) (LP)	m³/min	4.1-4.8-6.7-9.1-11.3	4.1-4.8-6.7-9.1-12.7	5.8-6.8-8.6-10.4-12.8	6.5-7.8-9.6-11.9-15.1	9.8-11.3-13.4-15.6-18.3 (22.3)	9.7-11.5-13.3-1	5.4-17.8 (20.9)			
Fan	Airflow rate Heating(SLo-SHi) (LP)	m³/min	4.1-4.8-6.	7-9.1-11.5	5.8-7.0-8.6-10.4-13.1	6.5-7.8-9.6-12.2-14.5	9.8-11.3-13.4-15.6-18.3 (20.0)	10.2-11.5-13.3-15.4-17.8 (20.9)				
	External static pressure	Ра				N/A						
Fan Motor	Туре			RC0J50	- DC motor		RCO	J56 - DC motor				
	Current	Α	0.22 / 0.23	0.29 / 0.23	0.29 / 0.31	0.39 / 0.36	0.43/0.53	0.51/0.51	0.51/0.51			
Air filter				Cated	chin filter		Nano	Platinum Filter				
Refrigerant	Gas (flare)	mm		9.52		12.7	12.7	15.88	15.88			
pipe diameter	Liquid (flare)	mm			6.35		9.52	9.52				
Field drain pip	oe diameter					O.D. 16mm						
Sound pressu (SLo-Lo-Mid-F	re level Cooling Hi-Shi) (LP)	dBA	19-21-29-36-42	19-22-30-36-43	26-30-35-40-46	28-33-38-44-49	29-37-41-45-49 (52)	30-37-41-45-49 (53)	30-37-41-45-49 (53)			
Sound pressu (SLo-Lo-Mid-F	re level Heating Hi-Shi) (LP)	dBA	19-21-29-36-42	19-22-30-36-43	26-30-35-40-46	28-33-37-43-48	29-37-41-45-49 (52)	30-37-41-45-49 (52)	30-37-41-45-49 (52)			

*A PAC-LV11M-J is required for each MSZ-GE indoor unit installed.



^{**}Maximum distance from the outdoor unit to the indoor unit must be less than 150m. When the outdoor unit is located lower than the indoor unit the height difference must be less than 30m.

INDOOR UNIT Floor Mounted Type

MFZ-KJ RapidHeat Series and PAC-LV11M-J External LEV Kit*



RapidHeat Floor Consoles are the perfect solution for unobtrusive heating at floor level. New advanced sensors with Intuitive Control Logic Technology offer unparalleled low temperature heating performance in the shortest amount of time, all while maintaining maximum energy efficiency.

RapidHeat Technology

Advanced sensors coupled with Intuitive Control Logic mean optimal running temperatures are reached in the shortest amount of time possible with maximum energy efficiency. Automatically activated at start up in low temperature conditions when Two-Way Airflow is selected, warm air is blown in a downward direction first before the air is returned back into the indoor unit where it is reheated a second time

Multi Vane Flow - Even Heat Distribution

The Multi Vane Flow function blows warm air in both an upward and downward direction providing fast, even and effective heating whilst also reducing draughts. This is achieved via three uniquely shaped vanes that are designed for better airflow control and also provide the freedom to be customised to your preference.

► Specifications

			MFZ-KJ25VE	MFZ-KJ35VE	MFZ-KJ50VE		
Power source			Single phase 230 V, 50 Hz				
0 1: 0	.,	kW	2.5 3.5		5.0		
Cooling Capac	city	BTU/h	8,530	11,942	16,378		
Heating Capac	oit.	kW	3.4	4.3	5.8		
neating Capat		BTU/h	11,604	14,672	19,790		
Power	Cooling	kW	0.0)13	0.021		
Consumption	Heating	kW	0.0		0.038		
Current	Cooling	Α	0.	14	0.20		
	Heating	Α	0.		0.34		
External finish				White			
Dimensions (V	VxDxH)	[mm]		750 x 215 x 600			
Net weight		[kg]	15.0				
Heat exchange	er		Cross	fin (Aluminum fin and coppe Line flow fan x 1	r tube)		
	Type x Quantity						
	Airflow rate Cooling (SLo-SHi)	m³/min	3.9-4.9-5.9-7.1-8.2		5.6-6.7-8.0-9.3-10.6		
Fan	Airflow rate Heating(SLo-SHi)	m³/min	3.9-5.1-6.	3.9-5.1-6.2-7.7-9.7			
	External static pressure	Pa		N/A			
Fan Motor	Туре			RC0J50 - DC motor			
Fan Motor	Current	Α	0.14	0.17	0.020 / 0.34		
Air filter				Nano Platinum Filter			
Refrigerant	Gas (flare)	mm	9.9	52	12.70		
pipe diameter	Liquid (flare)	mm		6.35			
Field drain pipe	e diameter			O.D. 16mm			
Sound pressur (SLo-Lo-Mid-H	re level Cooling li-Shi)	dBA	20-25-30-35-39		27-31-35-39-44		
Sound pressur (SLo-Lo-Mid-H	re level Heating li-Shi)	dBA	19-25-3	0-35-41	29-35-40-45-50		

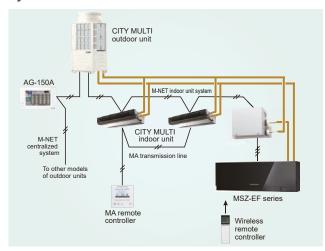
CITY MULTI External LEV Kit for Designer Series, GE and Deluxe High Walls

PAC-LV11M-J

Feature

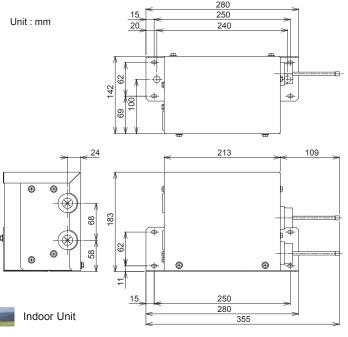
- Connection between CITY MULTI and Designer Series high walls
- · Wider indoor unit selection options
- · Controllable from MELANS controller
- Compact size 183 x 355 x 142 mm (H x W x D)
- Maximum distance of 15 m between Connection KIT and RAC Indoor unit
- · No need for drain pipe

System Structure



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

External Dimensions



Specifications

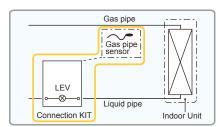
MODEL			PAC-LV11M-J		
Power source		Single / 220-240V / 50Hz			
Connectable nui	mber of indoor uni	t	1		
External finish			Galvanized steel sheet (No external finish)		
External dimens	ion H x W x D	mm	183 x 355 x 142		
Net weight		kg	3.5		
Refrigerant	Liquid pipe	mm	6.35 Brazed		
piping diameter	Gas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

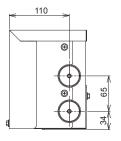
Connectable Models

Outdoor Unit PUHY Series PURY Series	Indoor Unit MSZ-EF Series MSZ-FH Series MSZ-GE Series MSZ-KJ Series	1
	NISZ-KJ Selles	

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.





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.



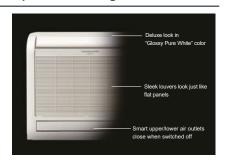
Quiet operation

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



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



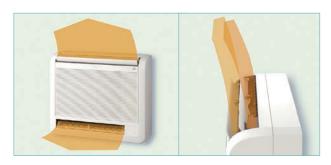
cleaning means your air-conditioner stays pristine while maintaining energy-efficient operation.

Optimum Air Distribution

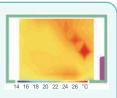
unobtrusive heating.

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!





				PFFY-P20VKM-E2	PFFY-P25VKM-E2	PFFY-P32VKM-E2	PFFY-P40VKM-E2				
Power	source				1-phase 220	-240V 50Hz					
01:-		*1	kW	2.2	2.8	3.6	4.5				
Coolin	ig capaci	ty *1	BTU/h	7,500	9,600	12,300	15,400				
114:-		. *1	kW	2.5	3.2	4.0	5.0				
Heatin	ig capaci	^{ty} *1	BTU/h	8,500	10,900	13,600	17,100				
Power	Power Cooling		kW	0.025	0.025	0.025	0.028				
consur	mption	Heating	kW	0.025	0.025	0.025	0.028				
Curren	nt.	Cooling	Α	0.20	0.20	0.20	0.24				
Currer	II.	Heating	Α	0.20	0.20	0.20	0.24				
Extern	al finish				Plastic (Pu	ure white)					
Dimen	sion		mm	600 x 700 x 200							
H x W	x D		in.	23-5/8 x 27-9/16 x 7-7/8							
Net we			kg(lbs.)	15 (34)							
Heat e	exchange	er		Cross fin (Alminium plate fin and copper tube)							
		Quantity		Line flow fan x 2							
Fan	Airflow (Lo-Mid	rate d-Hi-SHi)	m³/min	5.9-6.8-7.6-8.7	6.1-7.0-8.0-9.1	6.1-7.0-8.0-9.1	8.0-9.0-9.5-10.7				
	Externa	al static re	Pa		0						
N 4 - 4	Туре				DC m	notor					
Motor	Output		kW		0.03	x 2					
Air filte	er				PP honeycomb fabi	ric (Catechin Filter)					
Refrige	erant	Gas(Flare)	mm(in.)		ø12.7	(ø1/2)					
pipe di	iameter	Liquid(Flare)	mm(in.)		ø6.35	(ø1/4)					
Field d	drain pipe	diamete	r		I.D.16	(5/8)					
Sound pressure level			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.

				PFFY-P20VLEM-E	PFFY-P25VLEM-E	PFFY-P32VLEM-E	PFFY-P40VLEM-E	PFFY-P50VLEM-E	PFFY-P63VLEM-E		
Power	source				1-p	hase 220-240V 50Hz	1-phase 208-230V 60	Hz			
0		*1	kW	2.2	2.8	3.6	4.5	5.6	7.1		
Cooling capacity *1 BTU/h		7,500	9,600	12,300	15,400	19,100	24,200				
., *1 kW			kW	2.5	3.2	4.0	5.0	6.3	8.0		
Heating capacity *1 BTU/h		BTU/h	8,500	10,900	13,600	17,100	21,500	27,300			
Power		Cooling	kW	0.04	/ 0.06	0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11		
consu	mption	Heating	kW	0.04	/ 0.06	0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11		
Curren		Cooling	Α	0.19	0.25	0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47		
Curren	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.)			Acrylic pai	nt (5Y 8/1)				
Dimon	sian II.u	W v D	mm	630 x 1,0	050 x 220	630 x 1,1	70 x 220	630 x 1,4	410 x 220		
Dimension H x W x D in.		in.	24-13/16 x 41	-3/8 x 8-11/16	24-13/16 x 46	-1/8 x 8-11/16	24-13/16 x 55-9/16 x 8-11/16				
Net we	ight	kg(lbs.) 23 (51)				25 (56)	26 (58)	30 (67)	32 (71)		
Heat ex	xchanger	r			(Cross fin (Aluminum pla	ate fin and copper tube)			
	Type x	Quantity		Sirocco	fan x 1		Sirocco	fan x 2			
	Airflow	roto	m³/min	5.5	-6.5	7.0-9.0	9.0-11.0	12.0-14.0	12.0-15.5		
Fan	(Lo-Hi)	rate *2	L/s	92-	108	117-150	150-183	200-233	200-258		
	(LO-HI)		cfm	194	194-230		247-318 318-388		424-547		
	External sta	atic pressure	Pa	0							
Motor	Туре					1-phase inde	uction motor				
IVIOIOI	Output		kW	0.0)15	0.018	0.030	0.035	0.050		
Air filte	r					PP Honeycomb f	abric (washable)				
Refrige	erant	Gas (Flare)	mm(in.)			ø12.7 (ø1/2)			ø15.88 (ø5/8)		
pipe dia	ameter	Liquid (Flare)	mm(in.)			ø6.35 (ø1/4)			ø9.52 (ø3/8)		
Field dr	ain pipe	diameter	mm(in.)		I.D.26 (1)	<accessory hose="" o.d.2<="" td=""><td>27 (1-3/32) (top end :20</td><td>(13/16))></td><td></td></accessory>	27 (1-3/32) (top end :20	(13/16))>			
Sound pressure level (Lo-Hi) *2 *3 *4 dB(A)			dB(A)	34	-40	35-40	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.

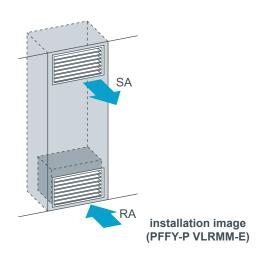
INDOOR UNIT Floor Mounted Concealed Type

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.

This provides a very good option for many residential houses where there is insufficient ceiling spaces for traditional ducted units.

				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			
114:-		*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			
O		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.)			Galvanized	steel plate					
Dimon	sion H x	W v D	mm	639 x 88	86 x 220	639 x 1,0	06 x 220	639 x 1,2	246 x 220			
Dimens	SIOII II X	WXD	in.	25-3/16 x 34-1	5/16 x 8-11/16	25-3/16 x 39-	5/8 x 8-11/16	25-3/16 x 49-	1/16 x 8-11/16			
Net weight kg(lbs.)			kg(lbs.)	18.5	(41)	20 (45)	21 (47)	25 (56)	27 (60)			
Heat e	xchanger	r			(Cross fin (Aluminum pla	ate fin and copper tube)				
	Type x	Quautity		Sirocco	fan x 1		Sirocco	fan x 2				
	Airflow	rato *2	m³/min	5.5	-6.5	7.0-9.0	9.0-11.0	12.0-14.0	12.0-15.5			
Fan	(Lo-Hi)	Tale	L/s	92-	108	117-150	150-183	200-233	200-258			
	(LO-111)		cfm	194	-230	247-318 318-388		424-494	424-547			
	External sta	atic pressure	Pa			0						
Motor	Туре					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.)		ø9.52 (ø3/8)							
Field dr	ain pipe	diameter	mm(in.)		I.D.26 (1)	<accessory hose="" o.d.2<="" td=""><td>27 (1-3/32) (top end :20</td><td>(13/16))></td><td></td></accessory>	27 (1-3/32) (top end :20	(13/16))>				
Sound pressure level (Lo-Hi) *2 *3 *4 dB(A)			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-,	hase 220-240V 50Hz	1-phase 220-240V 60	Hz				
0 !:		*1	kW	2.2	2.8	3.6	4.5	5.6	7.1			
Cooling	g capacit	y *1	BTU/h	7,500	9,600	12,300	15,400	19,100	24,200			
Lleatin	i	. *1	kW	2.5	3.2	4.0	5.0	6.3	8.0			
пеаш	g capacit	^y *1	BTU/h	8,500 10,900		13,600	17,100	21,500	27,300			
Power		Cooling	kW	0.	04	0.04	0.05	0.05	0.07			
consu	mption	Heating	kW	0.	04	0.04	0.05	0.05	0.07			
Curren		Cooling	Α	0.	34	0.38	0.43	0.48	0.59			
Curren	ıı	Heating	Α	0.	34	0.38	0.43	0.48	0.59			
Extern	al finish(l	Munsell N	lo.)			Galvanized	steel plate					
Dimon	sion H x	W v D	mm	639 x 8	86 x 220	639 x 1,0	06 x 220	639 x 1,	246 x 220			
Dimen	SIOII II X	WXD	in.	25-3/16 x 34-1	5/16 x 8-11/16	25-3/16 x 39-5/8 x 8-11/16		25-3/16 x 49-1/16 x 8-11/16				
Net we	eight		kg(lbs.)	18.5	(41)	20 (45)	21 (47)	25 (56)	27 (60)			
Heat e	xchangei	r			Cross fin (Aluminum plate fin and copper tube)							
	Type x (Quautity		Sirocco	Sirocco fan x 1 Sirocco fan x 2							
	Airflow	roto	m³/min	4.5-5	.5-6.5	6.5-7.5-9.0	8.0-9.5-11.0	10.0-12.0-14.0	11.0-13.0-15.5			
Fan	(Lo-Mid-F		L/s	75-9	2-108	108-125-150	133-158-183	167-200-233	183-217-258			
	(LO-IVIIU-I	11)	cfm	159-1	159-194-230		282-335-388	353-424-494	388-459-547			
	External stati	c pressure *2	Pa			20/4	0/60					
Motor	Type					DC n	notor					
IVIOIOI	Output		kW		0.096							
Air filte	er					PP Honeycomb f	abric (washable)					
Refrige	erant	Gas	mm(in.)			ø12.7 (ø1/	2) Brazed		ø15.88 (ø5/8) Brazed			
pipe di	ameter	Liquid	mm(in.)			ø6.35 (ø1/	,		ø9.52 (ø3/8) Brazed			
Field d	rain pipe	diameter	mm(in.)		I.D.26 (1)	<accessory hose="" o.d.2<="" td=""><td>27 (1-3/32) (top end :20</td><td>(13/16))></td><td></td></accessory>	27 (1-3/32) (top end :20	(13/16))>				
Sound	pressure	20Pa	dB(A)	31-3	6-40	27-32-37	30-36-40	32-37-41	35-40-44			
level (L	o-Mid-Hi)	40Pa	dB(A)	34-3	9-42	30-35-41	32-38-42	35-40-44	36-42-47			
	*3	60Pa	dB(A)	35-4	0-43	32-37-42	3.5-39-44	36-41-45	38-43-48			

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

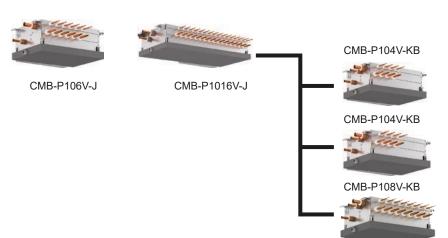
 Heating Indoor: 20°C(68°F)DB, Outdoor 7°C(45°F)DB/6°C(43°F)WB

 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

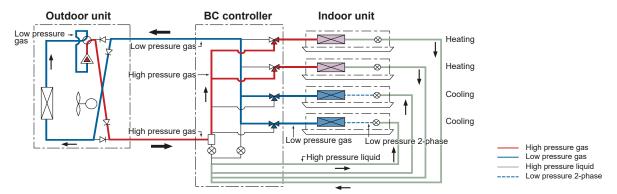
BC CONTROLLER

CMB-P-V-JA CMB-P-V-KA CMB-P-V-KB1



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, 6, 8, 12, 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.



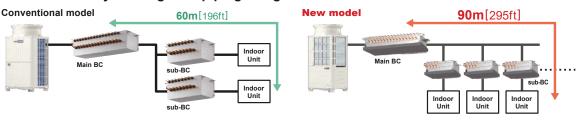
1 Sub-BC controller connections increased

Only two sub-BC controllers could be connected to a main BC controller in previous models. Up to 11 sub-BC controllers can now be connected to the new BC controller, allowing for more flexibility in system design.

The line-branching method enables the creation of system designs that use less refrigerant.



2 Greater flexibility in refrigerant piping design



The piping length from the main BC controller to indoor units has been increased from 60m[196ft] to 90m[295ft], providing greater flexibility in piping design.

*Sub-BC controllers should be used when piping length is 60m[196ft.] or more.

Model					CMB-P1	04V-J	CMB-P106	V-J	CMB-P108V-	CN	B-P1012V-J	CMB-P1016V-J	
Number of	branch				4		6		8		12	16	
Power soul	rce								-phase 220-230-2				
Power inpu	ıt		50Hz	Cooling			0.097/0.110/0		0.127/0.144/0.1		6/0.211/0.236	0.246/0.279/0.312	
		kW	30112	Heating			0.045/0.051/0		0.060/0.068/0.0		0/0.102/0.114	0.119/0.135/0.151	
		KVV	60Hz	Cooling			0.078/0.088/0		0.102/0.115/0.1		0/0.168/0.186	0.198/0.222/0.246	
			00112	Heating			0.036/0.041/0		0.048/0.054/0.0		2/0.081/0.090	0.096/0.108/0.119	
Current			50Hz	Cooling			0.45/0.48/0		0.58/0.63/0.68		35/0.92/0.99	1.12/1.22/1.30	
		A	00112	Heating			0.21/0.23/0		0.28/0.30/0.32		12/0.44/0.48	0.55/0.59/0.63	
		l '`	60Hz	Cooling			0.36/0.39/0		0.47/0.50/0.53		69/0.74/0.78	0.90/0.97/1.03	
			00112	Heating	0.11/0.12		0.17/0.18/0		0.22/0.24/0.25		33/0.36/0.38	0.44/0.47/0.50	
External fin						Galvai	nized steel plate (L				sheets + powde	er coating)	
Indoor unit									Model P80 or sma				
	e to 1 branch			*12	(Use optional joint pipe combing 2 branches when the total unit capacity exceeds P81.) P200 to P350								
	e outdoor/hea	at sour			P200 to P350 246								
Height			mm				F06		240		011	1.125	
Width			mm				596				911	1,135	
Depth	I= /	<u> </u>	mm				495	0.	nna stable unit se	nacit.		639	
	To outdoor/	heat				P200		T Co	nnectable unit ca	pacity		P350*13	
piping diameter	source unit	I Carlo			4.5				P250/P300	a al	40.0F (2/4) I		
ulailletei			press.			5.88 (5/8) Br			19.05 (3/4) Braz			Brazed or 22.2 (7/8) Brazed .58 (1-1/8) Brazed	
	To indoor	Low press, pipe			18	9.05 (3/4) Br	ndoor unit Model	FO as amalla	22.2 (7/8) Braze				
To indoor unit		Liquid pipe Gas pipe											
	uniit	Gas pipe			II	ndoor unit Model 5					azed		
Darie aire	1		mm (in)				(19	1.05 (3/4), 22	.2(7/8) with option		a.)		
Drain pipe		mm (in.) kg (lbs)			mm (in.) O.D. 32 (1-1/4)								
Net weight	laccal.				23 (5	1)	27 (60)	Outdoor/Lla	31 (69)	nammastad\ F7/F	46 (102)	56 (124)	
Sound power		dB <a> Rated operation Defrost											
	measured in anechoic room)			operation			20/M/ham D200	Outdoor/Lla	71 eat source unit is		22E0) 40/D2E0)		
Sound pressure level		dB <a>					30(VVIIeri P200	Outdoor/He	53	connected),39(F	250),40(P350)		
	measured in anechoic room) Defrost						Drain Can		has Tie hand				
Accessorie	S							Dialii Con	nection pipe, Was	silei, ile ballu			
Model					(CMB-P108V	-JA		CMB-P1012V-J	Α	C	MB-P1016V-JA	
Number of						8			12			16	
Power sour								1	-phase 220-230-2				
Power inpu	ıt		50Hz	Cooling		.127/0.144/0			0.186/0.211/0.2			.246/0.279/0.312	
		kW	00112	Heating		.060/0.068/0			0.090/0.102/0.1			.119/0.135/0.151	
		"	60Hz	Cooling	0.102/0.115/0.127				0.150/0.168/0.1			.198/0.222/0.246	
			001.12	Heating		.048/0.054/0			0.072/0.081/0.090			.096/0.108/0.119	
Current			50Hz	Cooling		0.58/0.63/0			0.85/0.92/0.99 0.42/0.44/0.48			1.12/1.22/1.30	
		A		Heating		0.28/0.30/0						0.55/0.59/0.63	
		''	60Hz	Cooling		0.47/0.50/0		0.69/0.74/0.78				0.90/0.97/1.03	
				Heating		0.22/0.24/0			0.33/0.36/0.38			0.44/0.47/0.50	
External fin				1 110			nized steel plate (L						
	apacity conne				IVI	odel P80 or	smaller (Use option	onai joint pip			otal unit capaci	ity exceeds P81.)	
	e outdoor/hea	at sour							P200 to P900				
Height			mm			911		1	246	1,1	25		
Width			mm			911			639	1,	33		
Depth Pefrigerant	To outdoor/	hoot	mm					Co	nnectable unit ca	nacity			
piping	source unit	IIeal			P200	P250/P30	0 P350*13	P400 to P5		P600*13	P650	P700 to P800 P850 to P90	
diameter	Source unit				15.88 (5/8)	19.05 (3/4		22.2 (7/8)		B) Brazed			
didiffictor		High	press.	pipe	Brazed	Brazed	or 22.2 (7/8) Brazed			-1/8) Brazed	28	.58 (1-1/8) Brazed	
					19.05 (3/4)	22.2 (7/8)	\				28.58 (1-1/8)	34.93 (1-3/8) 41.28 (1-5/8	
		Low p	ress. p	oipe	Brazed	Brazed	28	.58 (1-1/8) B	razed	or 34.93 (1-3/8) Brazed		Brazed Brazed	
	To indoor	Liquic	l pipe				ndoor unit Model :						
	unit	Gas p			Indoor unit Mo	del 50 or sm	naller 12.7 (1/2) Bra				(3/4), 22.2 (7/8)	with optional joint pipe used.	
	To other BC	contr	oller						vn-stream Indoor				
						P201 to P3	00 P301 to P350					P801 to P1000 P1001 or above	
		High	press.	pipe	15.88 (5/8) Brazed	19.05	(3/4) Brazed		7/8) Brazed	28	.58 (1-1/8) Braz		
			ress. p	ipe		9.05 (3/4) Brazed 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed 34.93 (1-3/8) Brazed 41.28 (1-5/8) Brazed							
		Liquic	l pipe		9.52 (3/8) Brazed	12.7 (1/2	2) Brazed	15.88 (5/	8) Brazed	19	9.05 (3/4) Brazed	
Drain pipe			mm (ii						O.D. 32 (1-1/4)			
Net weight			kg (lb			45 (100)			56 (124)			63 (139)	
Sound power	level	dB <a>		operation		62	2(When P250 Out	door/Heat so	urce unit is conne	ected),65(P450)	,68(P700),69(F	900)	
(measured in	anechoic room)	ub <a>	Defro						74				
Sound pressu	re level	dB <a>	Rated	operation		44	4(When P250 Out	door/Heat so	urce unit is conne	ected),47(P450)	,50(P700),51(F	900)	
(measured in anechoic room)		uD SA>	Defro	st					56				
(measured in													
(measured in a								Drain Con	nection pipe, Was	sher, Tie band			

★ Combination chart of BC Controller for R2 series (YNW)

	P200-P350	P400-P900				
CMB-P VJ	✓	N/A	N/A			
CMB-P V-JA	✓	✓	N/A			
CMB-P V-KA	✓	/	/			
CMB-P V-KB (Sub)	CMB-P10	CMB-P108/1012/1016V-JA, CMB-P1016V-KA				

, Madal										
Model	huanah				CMB-P1016V-KA					
Number of Power sour					16 1-phase 220-230-240 V					
Power inpu			T	Cooling	0.246/0.279/0.312					
i owei ilipu			50Hz	Heating	0.119/0.135/0.151					
		kW		Cooling	0.198/0.222/0.246					
			60Hz	Heating	0.096/0.108/0.119					
Current				Cooling	1.12/1.22/1.30					
		١.	50Hz	Heating	0.55/0.59/0.63					
		Α	0011	Cooling	0.90/0.97/1.03					
			60Hz	Heating	0.44/0.47/0.50					
External fin	nish				Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)					
Indoor unit c				nch *12	Model P80 or smaller (Use optional joint pipe combing 2 branches when the total unit capacity exceeds P81.)					
	number of conn				-					
	The maximum connectable capacity of indoor units				•					
	e outdoor/hea			capacity	P200 to P1100					
	le Main BC c	ontroll								
Height			mm		246					
Width			mm		1,135					
Depth	I=		mm		639					
	To outdoor/ source unit				Connectable unit capacity P250/P300 P350 **13 P400 to P500 P550 **13 P600 **13 P650 P700 to P800 P850 to P1000 P1050 to P1					
piping diameter	source unit									
alametel		High p	press.	oipe	15.88 (5/8) 19.05 (3/4) 19.05 (3/4) Brazed 22.2 (7/8) 22.2 (7/8) Brazed 24.28 (1-1/8) Brazed 24.58 (1-1/8) Brazed 24.58 (1-1/8) Brazed 34.93 (1-3/8) Brazed 34.93 (1-3/8) Brazed 24.58 (1-1/8) Brazed 24.58 (
		H-			10 05 (3/A) 22 2 (7/8) 28 58 (4 1/8) Remod 28 58 (4 1/8) 3/ 03 (4 3/8)					
		Low p	ress. p	ipe	Brazed Brazed 28.58 (1-1/8) Brazed 28.5					
		Liquid	l nine		Indoor unit Model 50 or smaller 6.35 (1/4) Brazed bigger than 50 9.52 (3/8) Brazed					
	To indoor				Indoor unit Model 50 or smaller 12.7 (1/2) Brazed bigger than 50 15.88 (5/8) Brazed					
	unit	Gas p	пре		(19.05 (3/4), 22.2 (7/8) with optional joint pipe used.)					
	To other BC	contr	oller		Total down-stream Indoor unit capacity					
					to P200 P201 to P300 P301 to P350 P351 to P400 P401 to P600 P601 to P650 P651 to P800 P801 to P1000 P1001 or above					
		High _I	press.	oipe	88 (5/8) Brazed 19.05 (3/4) Brazed 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed 34.93 (1-3/8) Brazed					
	Low press. pipe			ipe	.05 (3/4) Brazed 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed 34.93 (1-3/8) Brazed 41.28(1-5/8) Brazed					
	Liquid pipe				9.52 (3/8) Brazed 12.7 (1/2) Brazed 15.88 (5/8) Brazed 19.05 (3/4) Brazed					
	Drain pipe mm (in.)			O.D. 32 (1-1/4)						
Net weight			kg (lb		65 (144)					
Sound power I		dB <a>		operation	56(When P300 Outdoor/Heat source unit is connected),61(P550),63(P800),66(P1100)					
	anechoic room)		Defros		73					
Sound pressur	anechoic room)	dB <a>	Defros	operation	38(When P300 Outdoor/Heat source unit is connected),43(P550),45(P800),48(P1100) 55					
Accessories			Dello	٥L	Drain Connection pipe, Washer, Tie band					
	3									
Model					CMB-P104V-KB *14*15					
Number of					4 1-phase 220-230-240 V					
Power inpu			Cooling		0.060/0.068/0.076					
i owei iiipu			50HZ Heating		0.030/0.034/0.038					
		kW		Cooling	0.048/0.054/0.060					
			60Hz	Heating	0.024/0.027/0.030					
Current				Cooling	0.28/0.30/0.32					
		١.	50Hz	Heating	0.14/0.15/0.16					
		A	6011-	Cooling	0.22/0.24/0.25					
			60Hz	Heating	0.11/0.12/0.13					
External fin					Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)					
	number of conn				11					
	m connectable			loor units	P350 for each					
	le Main BC c	ontroll			CMB-P108/1012/1016V-JA, CMB-P1016V-KA 246					
Height			mm		<u>240</u> 596					
Width Depth			mm		396 495					
	To outdoor/	hest	mm		-					
piping	source unit				<u> </u>					
diameter	Journe uill		press.	nine	-					
			press. p		-					
	To indoor		l pipe		Indoor unit Model 50 or smaller 6.35 (1/4) Brazed bigger than 50 9.52 (3/8) Brazed					
	unit	Gas p			Indoor unit Model 50 or smaller 12.7 (1/2) Brazed bigger than 50 15.88 (5/8) Brazed					
		<u> </u>			(19.05 (3/4), 22.2 (7/8) with optional joint pipe used.)					
	To other BC	contr	oller		Total down-stream Indoor unit capacity					
		11: 1			to P200 P201 to P300 P301 to P350 P351 to P400 P401 to P600 P601 to P650 P651 to P800 P801 to P1000 P1001 or above					
			press.		15.88 (5/8) Brazed 19.05 (3/4) Brazed 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed 34.93 (1-3/8) Brazed 41.05 (3/4) Brazed 29.59 (1-4/9) Brazed 41.06 (3/4) Brazed 41.09 Brazed 41.0					
			ress. p	ipe	19.05 (3/4) Brazed 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed 34.93 (1-3/8) Brazed 41.28 (1-5/8) Brazed 15.7 (1/2) Brazed 15					
Drain pipe		Liquid	l pipe	- \	9.52 (3/8) Brazed 12.7 (1/2) Brazed 15.88 (5/8) Brazed 19.05 (3/4) Brazed O.D. 32 (1-1/4)					
Net weight			mm (ir		O.D. 32 (1-1/4) 21 (47)					
Sound power I				operation	56(When P200 Outdoor/Heat source unit is connected),57(P250),59(P350)					
		dB <a>	Defros		30(When F200 Oddood/mear source unit is connected),37(F230),59(F330)					
(measured in anechoic room)										
					38(When P200 Outdoor/Heat source unit is connected) 39(P250) 40(P350)					
Sound pressur		dB <a>		operation	38(When P200 Outdoor/Heat source unit is connected),39(P250),40(P350) 53					
Sound pressur	re level anechoic room)	dB <a>	Rated	operation						

Notes:

- Installation/foundation work, electrical connection work, insulation work, power source switch, and other items shall be referred to the Installation Manual.
 The equipment is for R410A refrigerant.
 Install this product in a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors. (For use in quiet environments with low background noise, position the BC CONTROLLER at
- least 5m away from any indoor units.)

 4. Sound pressure/power level differs depending on the connected outdoor/heat source unit
- capacity or operation condition.
- The sound pressure/power level at the rated operation is the value of the cooling mode.

 The sound pressure/power level values were obtained in an anechoic room. Actual sound pressure level is usually greater than that measured in anechoic room due to ambient noise and deflection sound.
- 6. The sound pressure level values were obtained at the location below 1.5m from the unit.
- 7. The solenoid valve switching sound is 56 dB regardless of the unit model.
 8. Indoor units P100, P125, P140 can be connected to 1 branch. (In this case, cooling capacity
- decreases a little.)
- ueureases a nuer.)

 9. Refrigerant piping diameter for connection of plural indoor units with 1 branch shall be referred to the Installation Manual.

- referred to the Installation Manual.

 10. This unit is not designed for outside installations.

 11. When blazing the pipes, be sure to blaze, after covering a wet cloth to the insulation pipes of the units in order to prevent it from burning and shrinking by heat.

 *12 Indoor unit capacity connectable to 1 branch is changed depending on the indoor unit type and connection method. Please refer to the Installation Manual for more information.

 *13 For the refrigerant pipe size, refer to Installation Manual of outdoor units/heat source units.

 *14 When blazing the pipes, be sure to blaze, after covering a wet cloth to the insulation pipes of the units in order to prevent it from burning and shrinking by heat.

 *15 Can't use singleness. (MAIN BC CONTROLLER is necessary)

Model								C	MB-P108V-KI	В		
Number of I	branch								8			
Power sour	ce					1-phase 220-230-240 V						
Power input	t		50Hz	Cooling				0.	119/0.135/0.15	51		
		1.347	SUHZ	Heating				0.	060/0.068/0.07	76		
		kW	0011-	Cooling				0.	096/0.108/0.11	19		
			60Hz	Heating				0.	048/0.054/0.06	60		
Current			5011-	Cooling		0.55/0.59/0.63						
		١.	50Hz	Heating					0.28/0.30/0.32			
		Α	0011-	Cooling					0.44/0.47/0.50			
			60HZ	Cooling Heating					0.22/0.24/0.25			
External fini						Galvanise	ed steel plate (le	ower part drain	pan: Pre-coate	ed galvanised s	heets + powder coa	ating)
The maximum	number of conr	nectable	Sub BC	controllers					11			
The maximur	The maximum connectable capacity of indoor unit			door units					P350 for each			
Connectable	Connectable Main BC controller						(CMB-P108/1012		MB-P1016V-K/	4	
Height		mm							246			
Width			mm		596							
Depth			mm		495							
Refrigerant	To outdoor/	heat							-			
piping	source unit								-			
diameter		High press. pipe						-				
		Low press. pipe		la de constitut del 50 constitut de 00 (4/4). Percentilian en tra 50 0 50 (6/0) C								
	To indoor	Liquid	l pipe		Indoor unit Model 50 or smaller 6.35 (1/4) Brazed bigger than 50 9.52 (3/8) Brazed							
	unit	Gas p	ipe			Indoor unit Model 50 or smaller 12.7 (1/2) Brazed bigger than 50 15.88 (5/8) Brazed (19.05 (3/4), 22.2 (7/8) with optional joint pipe used.)						
	To other BC	contr	oller						stream Indoor u		ipe usea.)	
	10 other bo	COILLI	oliei		to P200	D201 to D300	D301 to D350				D651 to D800 D80	01 to P1000 P1001 or above
		High r	oress.	nino	15.88 (5/8) Brazed		4) Brazed	22.2 (7/8)			.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed
			ress. p		19.05 (3/4) Brazed			28.58 (1-1/			34.93 (1-3/8) Brazed	41.28 (1-5/8) Brazed
		Liquid		лрс	9.52 (3/8		12.7 (1/2			8) Brazed		(3/4) Brazed
Drain pipe			mm (ir	n)	0.02 (0/0) Bruzeu	12.7 (1/2		O.D. 32 (1-1/4)		10.00	(O/4) Bluzed
Net weight			ka (lb						28 (62)			
	Sound power level (measured in anechoic room)			operation			56(When P200	Outdoor/Heat		nected) 57/P2	50 59(P350)	
			Defro				00(111101111 200	O dita o di i i i i i i i i i i i i i i i i i	Heat source unit connected),57(P250,59(P350)			
	Cound proceure level			operation			38(When P200	Outdoor/Heat s	source unit con	nected) 39(P2	50 40(P350)	
(measured in a		dB <a>	Defro				, 200	2	53		22, .3(. 000)	
Accessories		1	123110	-				Drain Connec	tion pipe, Was	her Tie band		
, 10003301163								Diani Connec	pipo, vvas	, no band		

Notes:

- 1. Installation/foundation work, electrical connection work, insulation work, power source switch,
- and other items shall be referred to the Installation Manual.

 The equipment is for R410A refrigerant.

 Install this product in a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors.

 (For use in quiet environments with low background noise, position the BC CONTROLLER at
- least 5m away from any indoor units.)

 4. Sound pressure/power level differs depending on the connected outdoor/heat source unit capacity or operation condition.

 The sound pressure/power level at the rated operation is the value of the cooling mode.
- The sound pressure/power level values were obtained in an anechoic room. Actual sound pressure level is usually greater than that measured in anechoic room due to ambient noise. and deflection sound.
- 6. The sound pressure level values were obtained at the location below 1.5m from the unit.

- 7. The solenoid valve switching sound is 56 dB regardless of the unit model.
 8. Indoor units P100, P125, P140 can be connected to 1 branch. (In this case, cooling capacity decreases a little.)

- decreases a little.)

 9. Refrigerant piping diameter for connection of plural indoor units with 1 branch shall be referred to the Installation Manual.

 10.This unit is not designed for outside installations.

 11. When blazing the pipes, be sure to blaze, after covering a wet cloth to the insulation pipes of the units in order to prevent it from burning and shrinking by heat.

 *12 Indoor unit capacity connectable to 1 branch is changed depending on the indoor unit type and connection method. Please refer to the Installation Manual for more information.

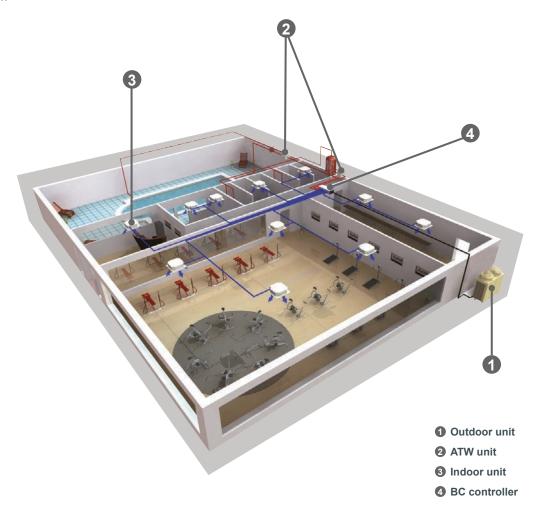
- *13 For the refrigerant pipe size, refer to Installation Manual of outdoor units/heat source units.
 *14 When blazing the pipes, be sure to blaze, after covering a wet cloth to the insulation pipes of the units in order to prevent it from burning and shrinking by heat.
- *15 Can't use singleness. (MAIN BC CONTROLLER is necessary)

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

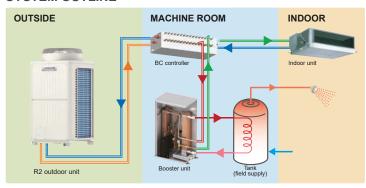
Applications

best for sanitary water, showers, etc.

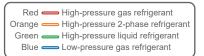
Operation

up to 70°C

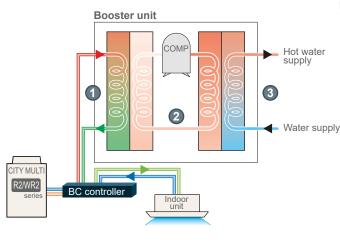
SYSTEM OUTLINE



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.
- 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.

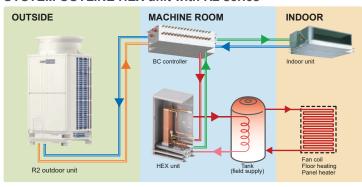
Operation

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

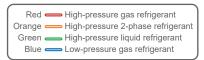


PWFY-EP100VM-E1-AU PWFY-P200VM-E1-AU

SYSTEM OUTLINE HEX unit with R2 series



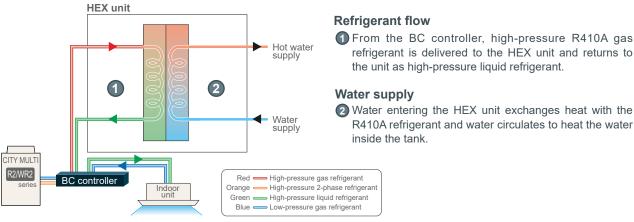
The HEX unit is connected to BC controller with refrigerant pipes, and to the water tank with water pipes. The HEX unit is not equipped with a compressor.



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

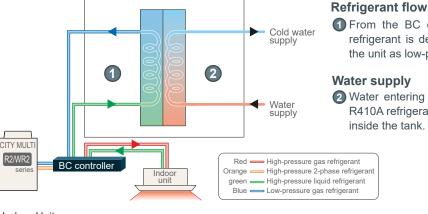
What makes HEX unit unique with R2/WR2 series?

Hot water supply



Cold water supply

HEX unit



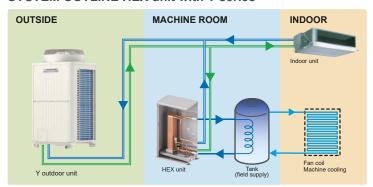
Indoor Unit

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.

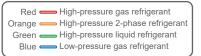
Water supply

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

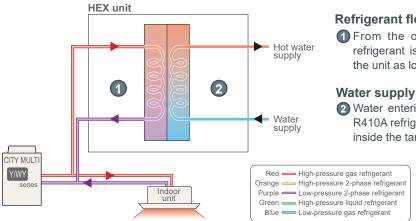


The HEX unit is connected to the Y series outdoor unit with refrigerant pipes, and to the water tank with water pipes. The HEX unit is not equipped with a compressor.

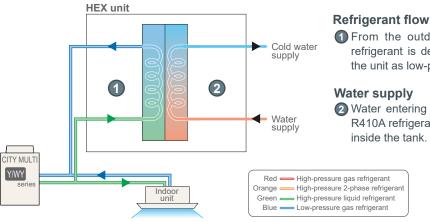


What makes HEX unit unique with Y/WY series?

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.

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		
	*1	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		
·····p· ·····g· ······g	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		
cooling capacity (ivoininal)	_	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		
remp. range or cooling	for outdoor unit	D.B.	-5 ~ 46°C (23 ~ 115°F) Y - series		
	Tor outdoor unit	D.B.	-5 ~ 40 C (23 ~ 115 F) Y - series -5 ~ 43°C (23 ~ 110°F) HP (ZUBADAN) - series		
	Circulating Water temp				
	Circulating Water temp. for heat source unit	-	10 ~ 45°C (50 ~ 113°F) WR2 - series		
	Inlet Water temp. for PWFY	-	10 ~ 45°C (50 ~ 113°F) WY - series		
		I-	10 ~ 35°C (50 ~ 95°F)		
Connectable outdoor unit/	Total capacity		50~100% of outdoor/heat source unit capacity		
heat source unit	Model / Quantity		$PUHY-P \cdot Y(S)KB-A1(-BS), PUHY-EP \cdot Y(S)LM-A(-BS), PUHY-HP \cdot Y(S)HM-A(-BS), \\ PQHY-P \cdot Y(S)HM-A, PURY-(E)P \cdot Y(S)LM-A(1)(-BS), PQRY-P \cdot Y(S)HM-A$		
Sound pressure level (mea	sured in anechoic room)	dB <a>	29		
Diameter of refrigerant pipe	Liquid	mm (in.)	ø9.52 (ø3/8") Brazed		
	Gas	mm (in.)	ø15.88 (ø5/8") Brazed		
Diameter of water pipe	Inlet	mm (in.)	PT1 Screw (PT3/4 Screw without Expansion joint)		
	Outlet	mm (in.)	PT1 Screw (PT3/4 Screw without Expansion joint)		
Field drain pipe size	•	mm (in.)	ø32 (1-1/4")		
External finish			NO		
External dimension H × W	× D	mm	800 (785 without legs) × 450 × 300		
		in.	31-1/2" (30-15/16" without legs) × 17-3/4" × 11-13/16"		
Net weight		kg (lbs)	33 (73)		
Circulating water	Operation Volume Range		1.8 ~ 4.30		
Design pressure	R410A	MPa	4.15		
5 1 · · ·	Water	MPa	1.00		
Drawing	External	•	WKJ94T340		
5	Wiring		WKE94C951		
Standard attachment	Document		Installation Manual, Instruction Book		
Canada attacimont	Accessory		Strainer, Heat insulation material, Expansion joint, Flow switch × 1 set, Buffer material		
Optional parts	,		Solenoid valve kit: PAC-SV01PW-E		
Remark			Solenoid valve kit: PAC-SV01PW-E Details on foundation work, duct work, insulation work, electrical wiring, power source		
Kemark			switch, and other items shall be referred to the Installation Manual.		
			Switch, and other items shall be referred to the installation inditial.		

*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.



Indoor Unit

ATW UNIT HEX Unit

PWFY-P200VM-E1-AU





► Specifications

Model			PWFY-P200VM-E1-AU				
Power source			1-phase 220-230-240V 50 / 60Hz				
	*1	kW	25.0				
	*1	kcal/h	21,500				
Heating capacity	*1	BTU/h	85,300				
(Nominal)	Power input	kW	0.015				
	Current input	A	0.068-0.065-0.063				
	Ourrent input	W.B.	0.000-0.003				
		W.B.	-20~15.5°C (-4~60°F) Y - series				
	Outdoor unit/	W.B.	-25~15.5°C (-13~60°F) HP(ZUBADAN) - series				
	Heat source unit	W.B.	-20~32°C (-4~90°F) R2 - series				
Temp. range of	condition	VV.D.	10~45°C (50~113°F) WY - series				
heating							
		-	10~45°C (50~113°F) WR2 - series				
	HEX unit inlet water temp.	-	10~40°C (50~104°F)				
	*2	kW	22.4				
Cooling capacity	*2	kcal/h	19,300				
	*2	BTU/h	76,400				
(Nominal)	Power input	kW	0.015				
	Current input	Α	0.068-0.065-0.063				
		D.B.	-5~46°C (23~115°F) Y - series				
	Outdoor unit/	D.B.	-5~43°C (23~110°F) HP(ZUBADAN) - series				
Temp. range of	Heat source unit	D.B.	-5~46°C (23~115°F) R2 - series				
cooling	condition	-	10~45°C (50~113°F) WY - series				
		-	10~45°C (50~113°F) WR2 - series				
	HEX unit inlet water temp.	-	10~35°C (50~95°F)				
	Total capacity		50~100% of outdoor unit/heat source unit capacity				
Connectable outdoor			Y (Standard, Hi-COP), Replace Y,				
unit/heat source unit	Model / Quantity		HP(ZUBADAN) series, R2 (Standard, Hi-COP),				
	,		Replace R2, WY series, WR2 series				
Sound pressure level (mea	asured in anechoic room)	dB <a>	29				
Diameter of refrigerant	Liquid	mm(in.)	ø9.52 (ø3/8") Brazed				
pipe	Gas	mm(in.)	ø19.05 (ø3/4") Brazed				
Diameter of water	Inlet	mm(in.)	PT 1 Screw				
pipe	Outlet	mm(in.)	PT 1 Screw				
Field drain pipe size		mm(in.)	ø32 (1-1/4")				
External finish			NO 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)	38 (84)				
Circulating water	Operation Volume Range	m³/h	1.8~4.30				
-	R410A	MPa	4.15				
Design pressure	Water	MPa	1.00				
	External	IVII U	KD94R274				
Drawing	Wiring		WKE94C626				
	Document		Installation Manual, Instruction Book				
}	Document		Strainer, Connecter, Heat insulation material,				
Standard attachment	Accessory		2 × Connector sets, Expansion joint,				
	ACCESSUI Y						
Ontional north			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				
			switch, and other items shall be referred to the Installation Manual.				

Notes:

**1 Nominal heating conditions

<S/Y/IHP(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

V/HP(ZUBADAN)/R2-series>
Outdoor Temp.: 35°CB (95°FDB)
Pipe length: 7.5 m (24-9/16 ft)
Level difference: 0m (0ft)

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

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

<WY/WR2-series>

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

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

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

 * The unit is not designed for outside installations.

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

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

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

 * Please do not use groundwater and well water.

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

- * The water circuit must use the closed circuit.

 * Please do not use it as a drinking water.

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)							
riot iroigiit	Туре	3(11)	Inverter rotary hermetic compressor							
	Maker		MITSUBISHI ELECTRIC CORPORATION							
Compressor	Starting method		Inverter							
Compressor	Motor output	kW	1.0							
	Lubricant		NEO22							
Circulating water	Operation volume Range	m³/h	0.6~2.15							
	High pressure protect		High pressure sensor, High pressure switch at 3.60 MPa (601 psi)							
Protection on internal	Inverter circuit (COM		Over - heat protection, Over - current protection							
circuit (R134a)	Compressor	. ,	Discharge thermo protection, Over - current protection							
	Type × original chard	ie *2	R134a × 1.1kg (0.50lb)							
Refrigerant	Control	,	LEV							
	R410A	MPa	4.15							
Design pressure	R134a	MPa	3.60							
Design pressure	Water	MPa	1.00							
	External		WKB94L762							
Drawing	Wiring		WKE94C229							
	Document									
Standard attachment	rd attachment Accessory		Installation Manual, Instruction Book Strainer, Heat insulation material, 2 × Connector sets							
Ontional parts	Accessory		Strainer, Heat insulation material, 2 × Connector sets NONE							
Optional parts 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
Test 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 220-230-240V 50 / 60Hz							
Diameter of	Applicable models		PWFY-P100VM-E1-AU	PWFY-P200VM-E1-AU						
refrigerant pipe	Liquid	mm (in.)	ø15.88	ø19.05						
remgerant pipe	Gas	mm (in.)	ø9.52	ø9.52						
External dimension F	1 × W × D	mm	462 × 320 × 207							
LAternal dimension i	1 ^ W ^ D	in.	18-1/4" × 12-	5/8" × 8-3/16"						
Net weight		kg (lbs)	8.5	(19)						
Drawing	External		WKD9	4T532						
Standard attachment	Document		Installation Manual							
Standard attachment	Accessory		Specification label, F	Refrigerant conn.pipe						

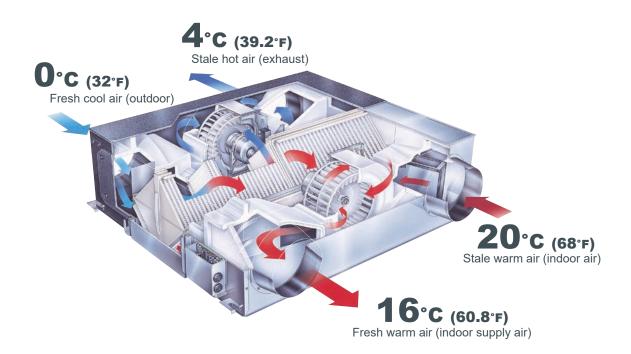


RVX SERIESEnergy Recovery Ventilators



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.

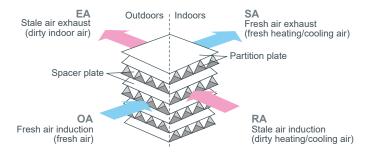
The superior heat-transfer and moisture permeability of the special paper assures highly effective total heat-exchange (temperature and humidity) when inducted and exhausted air supplies cross in the Lossnay core.

LOSSNAY Technology

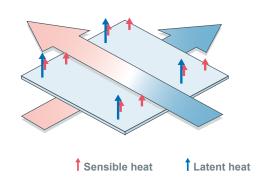
- Two paths ventilation
 - LOSSNAY simultaneously intakes Fresh Air and exhausts Dirty Air.
- Total energy recovery

LOSSNAY returns BOTH sensible heat and latent heat.

A. Two paths ventilation



B. Total energy transfer



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



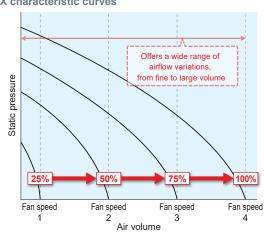


Wide range air volume

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.

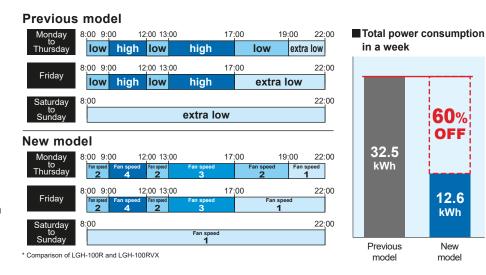
When used in combination with the CO₂ sensor or timer function, the air volume can be controlled according to conditions that realise better performance and reduce power consumption.

■RVX characteristic curves



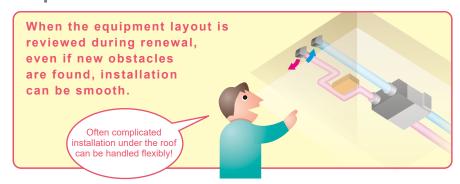
Weekly timer

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

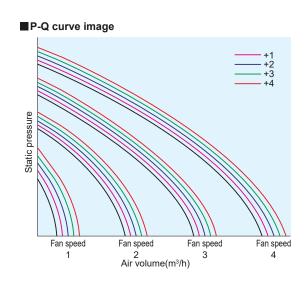
External static pressure has been improved in the new RVX models. By increasing the external static pressure, highly flexible duct work becomes possible, thus renewal from existing equipment is easy.



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.



Indoor Unit

"By-pass" Ventilation External Control Setting

In addition to the automatic damper open/close function, open/close control via external devices is 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).

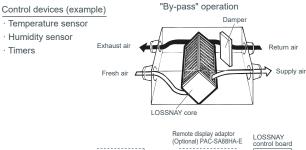
When SW1 is "ON", the ventilation mode of LOSSNAY is changed to the By-pass ventilation regardless of the setting on the remote controller.

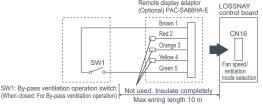
Automatic ventilation setting

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.





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.

3. Office equipment room cooling

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.

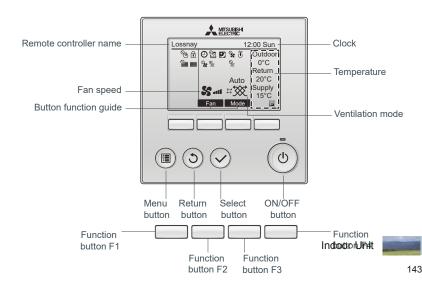
Controller PZ-61DR-E

In addition to boosting the energy conservation performance of the main unit, the remote controller features a variety of 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.



Model line-up



LGH-15~100RVX-E

Model		LGH-15RVX-E							
Electrical power supply		220-240V/50Hz, 220V/60Hz							
Ventilation mode		Heat recovery mode Bypass 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
Almoratores	(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	_	_	_	_
F4b-l	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/50H	łz, 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 the center of unit in an anechoeic chamber)		27.0	22.0	20.0	17.0	27.5	23.0	20.0	17.0
Weight (kg)					2	3			

^{*}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/50H	łz, 220V/60Hz	2		
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 avalance officionary (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.



Indoor Unit

^{*}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 recovery mode Bypass mode					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	_	_	_	_
Entrially exchange entitlerity (%)	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)						3			

^{*}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)

Model			LGH-65RVX-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)		1.65	0.90	0.39	0.15	1.72	0.86	0.38	0.16
Input power (W)		252	131	49	15	262	131	47	17
Air volume	(m³/h)	650	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	_	_	_	_
Enthalpy exchange entitlently (%)	Cooling	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	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 SP3						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	_	_	_	_			
Entholmy ayahanga afficianay (9/)	Heating	71.0	73.5	78.0	81.0	-	_	_	_			
Enthalpy exchange efficiency (%)	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.

^{*}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

LGH-150/200RVX-E

Model		LGH-100RVX-E							
Electrical power supply		220-240V/50Hz, 220V/60Hz							
Ventilation mode		Heat recovery mode Bypass mode					s mode	le	
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1
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
Almoratores	(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	_	_	_	_
F-4h-l	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	18.0
Weight (kg)					5	4			

^{*}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/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)		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	_	_	_	_		
Enthalpy exchange efficiency (%)	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 drift with static pressure 2507 a on less at 1 an speed 4. Otherwise the holse level might be larger.									
Model		LGH-200RVX-E							
Electrical power supply		220-240V/50Hz, 220V/60Hz							
Ventilation mode		Heat recovery mode				Bypass mode			
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	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
	(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	_	_	_	_
Enthalpy exchange efficiency (%)	Heating	72.5	74.0	78.0	87.0	_	_	_	-
	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)		110							

^{*}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)

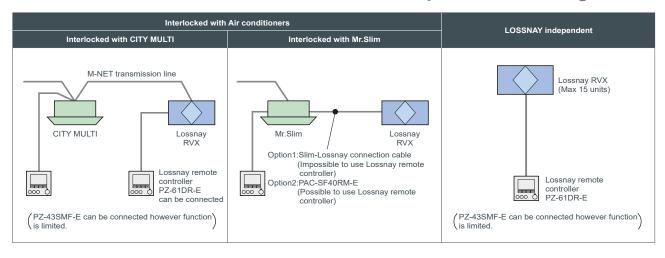
*The running current, the input power, the efficiency and the noise are based on the rating air volume, and 230V/50Hz.

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

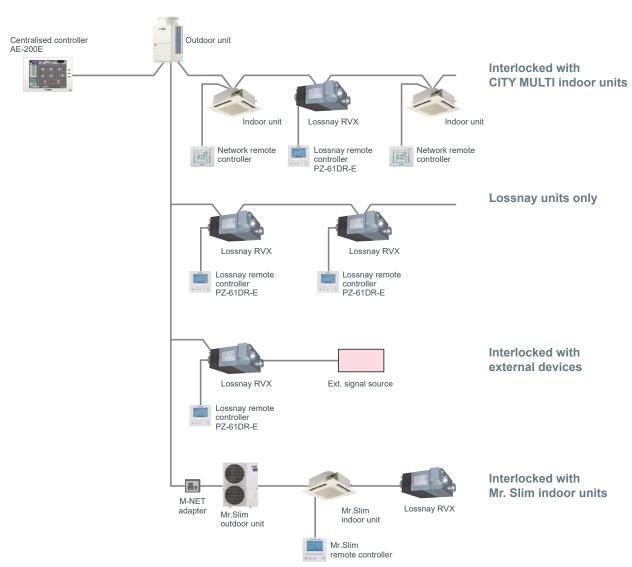
*Use this unit between static pressure 50Pa and 220Pa at Fan speed 4. Otherwise the motor protection may work and reduce its output or the noise level might be larger.



The 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

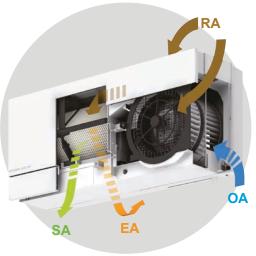
in a wall mounted unit.

Energy Saving

Reduced heat loss contributes to lower air conditioning costs.

Fresh Air

Simultaneous air supply/exhaust function ensures efficient ventilation.



Quiet Operation

insulation for even quieter operation.

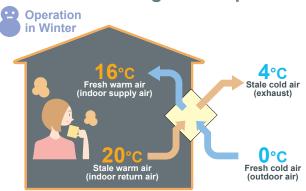
Simple Installation

Easy installation through boring of 2 installation holes.

Stylish Design

Designed to match any interior decor.

Total-Heat-Exchange Concept



•Heat-exchange Temp. equation

$$\label{eq:continuous_poly_air} \begin{split} & \text{Indoor supply-air} = \left\{ \begin{aligned} & \text{Indoor} & \text{Outdoor} \\ & \text{temperature(°C)} & \text{temperature(°C)} \end{aligned} \right\} \ x \ \ \begin{aligned} & \text{Temp exchange} \\ & \text{efficiency(\%)} \end{aligned} \ + \ \ \begin{aligned} & \text{Outdoor} \\ & \text{temperature(°C)} \end{aligned}$$

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

Operation in Summer



•Heat-exchange Temp. equation

Indoor supply-air = Outdoor temperature(°C) = Countdoor te

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.
- \bullet 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)
230	50	HI	105	31	73	37	7.5
230	50	LO	60	15	80	25	7.5

Optional Parts





 Standard grade replacement filter.

VD Series – High Efficiency Low Noise Ducted Exhaust Fans

Mitsubishi Electric Ducted Exhaust Fans are specifically designed to quickly and efficiently remove moisture and odours in the quietest way possible. They are ideal for areas that are typically exposed to higher levels of moisture such as laundries, bathrooms and toilets.



Key Features

- Quiet, low vibration operation (from 30dBA*)
- Centrifugal fan with long-life ball bearing motor
- Energy efficient for increased power savings
- Stylish design that blends well with surroundings
- Dual airtight shutters block external noise and outside air *VD-15Z





Plastic Grille VD-10Z

Plastic Grille





Plastic Grille
VD-15ZP

Metal Grille VD-18Z/20Z

Specification Table

Model	Current (A)	Power (W)	Frequency (Hz)	RPM	Air Volume (l/s) / (m ³ /h)	Noise (dBA)	Weight (kg)
VD-10Z	0.05	10	50	950	29 / 105	32	2.2
VD-15Z	0.06	13	50	725	47 / 169	30	3.4
VD-15ZP	0.08	18	50	900	62 / 223	36	3.4
VD-18Z	0.16	34	50	620	98 / 353	37	5.8
VD-20Z	0.21	46	50	730	122 / 439	41	6.5

Air volume at ØPa.

Dimension Table

Medal	Fan	(excluding sp	pigot)			Duct		
Model	W (mm)	D (mm)	H (mm)	Туре	W (mm)	D (mm)	H (mm)	Dia (mm)
VD-10Z	171	171	172	Plastic	250	250	20	100
VD-15Z	251	251	200	Plastic	330	330	20	100
VD-15ZP	251	251	200	Plastic	330	330	20	100
VD-18Z	270	270	243	Metal	334	334	15	150
VD-20Z	307	307	243	Metal	380	380	15	150

Mitsubishi Electric Ducted In-Line Fans

Sturdy, quiet and reliable, the Mitsubishi Electric range of In-Line Fans are the ideal ventilation solution for a wide range of commercial and domestic applications including living rooms, toilets, changing rooms, offices, and as a heat transfer system. Low operation noise, high volume air extraction and energy efficient air displacement are the result of an enhanced air duct design developed by engineers for the In-Line Fan range.

Quietest In-line Fan Range in NZ![†] - High Airflow with Low Noise

The centrifugal In-Line Fan features an advanced air duct design, allowing air to be distributed evenly either side of the fan. This innovative design feature reduces the noise level of the unit, ensuring that even whilst maintaining a high air flow rate, the In-Line Fan is able to operate at a super-quiet 18.5 dBA*. Sitting between ductwork, the In-Line Fan can be installed away from the extraction point, further decreasing noise heard by the occupant; ideal for areas with limited space above the extraction point and for noise-sensitive environments such as meetings rooms, libraries and living rooms.

Versatile and Sturdy Design

Equipped with adjustable mounting brackets and removable duct spigots, installations are both convenient and versatile. The sturdy design of the unit provides options for both roof cavity and ceiling exposed mounting.

Key Features

- High airflow, quiet operation
- Adjustable/removable mounting brackets
- Two speed selectable
- · Galvanised steel casing
- Removable cover for easy maintenance
- · All models are less than 260mm in height

- Quick connect power terminal
- Removable duct spigots
- Wool glass noise absorption pads*
- Low power consumption
- *V-18ZMWP-E only

Model	Rated Voltage (V)	Frequency Notch (Hz)		Rated Current (A)	Power Consumption (W)	sumption Rate		Vane Diameter (mm)	Connecting Duct (mm)	Weight (kg)
\/ 457\4\\	230	50	High	0.11	26	58 / 212	22	Ø 150	Ø 100	6
V-15ZMW-E	230	50	Low	0.10	18	44 / 160	18.5	Ø 150	r Duct	6
\/ 4 E 7 \	000	50	High	0.21	47	94 / 340	28	0.450	0.450	6
V-15ZMWP-E	230	50	Low	0.18	33	79 / 285	25	Ø 150	Ø 150	6
\/ d 0.7\	000		High	0.28	64	143 / 515	32	Ø 400	0.450	0.5
V-18ZMW-E	230	50	Low	0.24	36	105 / 380	27	Ø 180	Ø 150	8.5
\/ 407\\\\D F	000	50	High	0.47	105	215 / 775	33	Ø 100	Ø 000	0.5
V-18ZMWP-E	230	50	Low	0.46	84	184 / 665	31	Ø 180	w 200	9.5

Airflow rates exclude ducting. Please refer to the static pressure fan curve.

OA Processing Units

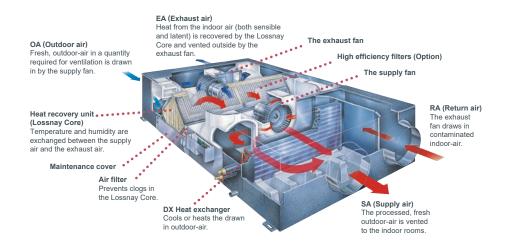
RD4 Series

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.

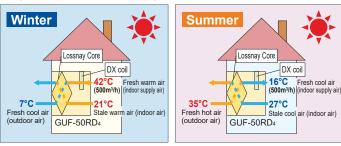


The Air Conditioning Function

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.

Indoor Unit



Model				OUE 5	0DD :	CUE 4	00DD :
				GUF-5	URD4	GUF-1	00RD4
Power source					1-phase 220	-240V 50Hz	
Cooling capacity		*1	kW	5.57	<1.94>	11.44	<4.12>
Figure in < > is the	he recovery	*1	kcal / h	4,800	<1,650>	9,800	<3,500>
capacity by LOSS	SNAY core.	*1	BTU / h	19,000	<6,600>	39,000	<14,000>
*3	Power input		kW	235-	265	480	-505
*3	Current input		Α	1.1	5	2.	20
Heating capacity		*2	kW	6.21	<2.04>	12.56	<4.26>
Figure in < > is the	he recovery	*2	kcal / h	5,340	<1,750>	10,800	<3,650>
capacity by LOSS	SNAY core.	*2	BTU / h	21,200	<7,000>	42,850	<14,450>
*3	Power input		kW	235-2	265	480	-505
*3	Current input		Α	1.1	-	2.	20
Capacity equivale				P3	2	Р	63
Humidifying capa	icity		kg / h				
			lbs / h	-			-
	Humidifier			Permeable fil	m humidifier		
External finish					Galvanized, with gr	ey insulation sheet	
External dimension	on H x W x D		mm	317 x 1,01	6 x 1,288	398 x 1,2	31 x 1,580
			in.	12-1/2 x 40	0 x 50-3/4	15-11/16 x 4	8-1/2 x 62-1/4
Net weight			kg (lbs)	48 (1	06)	82 (181)
Heat	LOSSNAY core			Partition	on, Cross-flow structure,	Special preserved paper	-plate.
exchanger	Refrigerant coil				Cross fin (Aluminum	fin and copper tube)	
FAN	Type x Quantity				SA: Centrifugal far	n (Sirocco fan) x 1	
					EA: Centrifugal far	n (Sirocco fan) x 1	
	External		Pa	14	0	1	40
	static press.	*4	mmH₂O	14.	.3	14	1.3
	Motor type			Totally enclosed	l capacitor permanent sp	lit-phase induction motor	, 4 poles, 2units
	Motor output		kW				
	Driving mechanis	sm			Direct-drive	en by motor	
	Airflow rate		m³ / h	50	0	1,0	000
	(High value)		L/s	13			78
			cfm	29	4	5	89
Sound pressure le (measured in and	` ,	*3	dB <a>	33.5-	34.5	38	-39
Insulation materia	al				Polyeste	er sheet	
Air filter	Supplying air			Non-woven fabrics filter (Gra	vitational method 82%) & Opt	ional part: High efficiency filte	r (Colorimetric method 65%)
	Exhausting air			N	Ion-woven fabrics filter (G	Gravitational method 82%	b)
Protection device	:				Fu	se	
Refrigerant contro	ol device				LE	EV	
Connectable outo	door unit				R410A CI	TY MULTI	
Diameter of	Liquid		mm (in.)	ø6.35 (ø1	/4) Flare	ø9.52 (ø	3/8) Flare
refrigerant pipe	Gas		mm (in.)	ø12.7 (ø1	/2) Flare	ø15.88 (ø	5/8) Flare
Field drain pipe s	ize		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.

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)





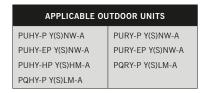
PAC-AH-M-J - AHU Controller

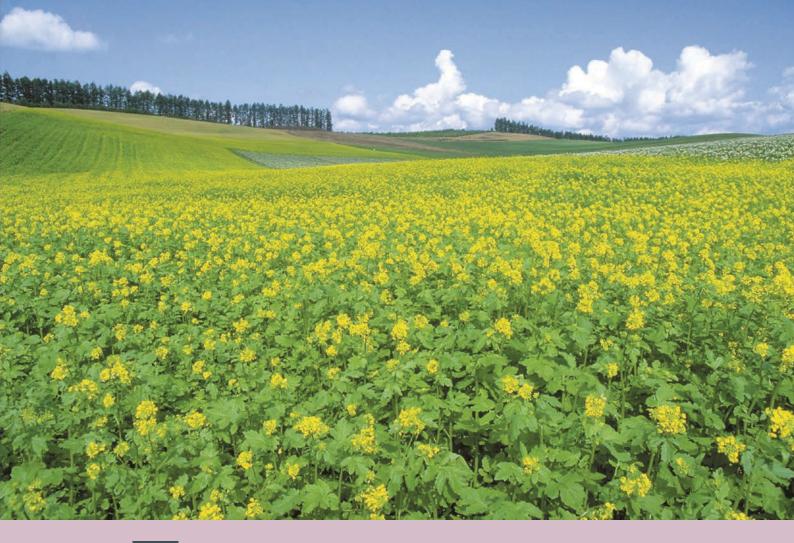
MODEL REFERENCE		PAC-AH125M-J	PAC-AH125M-J	PAC-AH140M-J	PAC-AH250M-J	PAC-AH250M-J	PAC-AH500M-J	PAC-AH500M-J
AIR HANDLING UNIT SIZE		P100	P125	P140	P200	P250	P400*2	P500*2
ALLOWED HEAT EXCHANG (KW) - HEATING (MIN/MA		10.0 - 12.5	12.5 - 16.0	16.0 - 18.0	18.0 - 25.0	25.0 - 31.5	40.0 - 50.0	50.0 - 63.0
ALLOWED HEAT EXCHANGE (KW) - COOLING (MIN/MA		9.0 - 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	ATE (M3/H)*3	2000	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.
- *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.







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.

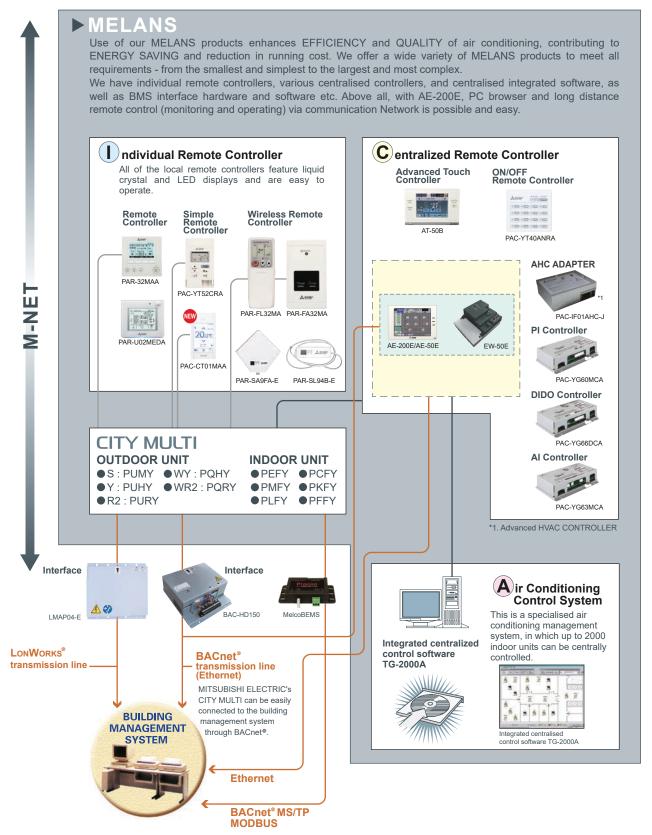






System Controller

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)

	L	Local remote controller *9 System controller *9															
Model	PAR-31/32MAA	PAR-U02MEDA	PAC-YT52CRA	PAR-FL32MA	PAC- YT40ANRA	AT-50B	AE-2	200E	AE-2	00E + / EW-50E	EW	/-50E	AG-	150A	AG-1	50A + 350ECA	TG-2000A
Controllable Groups / Indoors (Group / Indoor) *8	1 / 16	1 / 16	1 / 16	1 / 16	16 / 50	50 / 50	50	/ 50 Browser'4	200 /	200	50	/ 50 Browser*4	50	/ 50 Browser*4	150 / AG-150A	150	2000 / 2000
■Operating							/ LE 2002	Diomodi	71L 200L	Diomoci	L11 00L	Diomoci	710 10071	Di Olioco	710 10071	Біонооі	
ON / OFF	l o	0	1 0	0	0			 	_ ■		•		○ ■				
Mode (cool / heat / dry / fan)	0	0	0	0	N	0	© =	© I		_		© I			© I	○ ■	◎ ■
Temperature-set	0	0	0	0	N	0	© I	© I	© I	© I	N	0	© I	_	0	© ■	○ ■
Dual set point *10	0	0	0	N	O*11	0	© I	© I	© I	© I	N	0	N	N	N	N	© ■
Local Permit / Prohibit	N	N	N	N	N	0	© ■	© I	© =	© =	N	0	◎ ■		© ■	○ ■	© ■
Fan speed	0	0	0	0	N	0	© I		© I	0	N	0	© ■	_	0		◎ ■
Air-flow direction	0	0	0	0	N	0	0	© ■		0	N		© ■				◎ ■
■Status monitoring					- 11						- 14						
ON / OFF	I 0	1 0	1 0	0	0	I @	I @	0	0	101	•	10		0		0 1	○■
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	6	N	10	 0	6	0	0	0
	0	0	0	N	N	0	0	0	0	6	N	10	6	6	0	0	0
Indoor temperature	0	0		N		0	8	8	0	8		10	8	8	0	8	0
Filter sign			N		N		_				N						_
Error flashing	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	○ ■
Error code	0	0	0	N	0	0	0	0	0	0	N	0	0	0	0	0	0
Operation hour	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	•
■Scheduling							ا ما	ا ما	<u> </u>	ا ہ ۔ا		I	<u> </u>	I ~ —	_ ما	ا ۔ ۔ا	o –
One-day	0	0	N	N	N	0	_	I		_	N	_	◎ ■	_	_	◎ ■	© ■
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	◎ ■	◎ ■	 	◎ ■	N	◎ ■	_	_	◎ ■	◎ ■	◎ ■
Times of ON / OFF per week	8 x 7	8 x 7	N	N	N	16 x 7	24 x 7	24 x 7			N	24 x 7				24 x 7	24 x 7
Annual	N	N	N	N	N	N	I	I	I	◎ ■	N	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	0	N	N	N	N	0	0	0	0	0	N	0	0	0	0	0	0
Daily / monthly report	N	N	N	N	N	N	N	N	N	N	Ν	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	0	0	0	N	N	N	N	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	N	O *2 *6	N	O *2 *6	_	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	Ν	0	0	O*2	0	O*2	Ν	O*2	0	O*2	0	O*2	0
Sliding temperature control	N	N	N	N	N	N	0	O*2	0	0*2	Ν	O*2	0	O*2	0	O*2	0
BACnet® connection	N	N	N	N	N	N	•	•	•		•	•	N	N	N	N	N
■Management (Group / Int	terlocked)							*2		*9		*2		*2		*2	
Ventilation interlock	N/O	N/O	N/O	N	0		0	010	0	0/0	Ν	0/0	0	0/0	0	0/0	0/0
Group setting	O *1	0	O *1	N	0	0	0	O*2	0	O*2	N	O*2	0	O*2	0	O*2	0
Block setting	N	N	N	N	N	N	0	O*2	0	O*2	N	O*2	0	O*2	0	O*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			terlocked)														
ON / OFF	N/O	N/O	N/O	N/O*7	@/@*3	0/0	l@/@	l@/@	ത/ത	0/0	A/A	loio	l@/@	loro	lo/o		@/@
Fan speed	N/O	N/O	N N	N N	N	0/0				0/0							0/0
Ventilation mode	N/N	N N	N	N	N					@/ N							0/N
					I.V	₩ / IV	U N	W N	⊌/ IV	₩/ IN	/ / /	1 S / 1V	U / IV	US/ IV	W N	₩/ IN	O/ IN
■Status monitoring on LOS		`		· '		100	1010	la / a	ا ا	اه رها		1010	1010	ماها	اه اه	اهرها	@ / @
ON / OFF	N/O	N/O	N/O	N	N	0/0											
Fan speed	N/O	N/O	N	N	N					0/0							0/0
Ventilation mode	N	N	N	N	N	O/ N	10/N	O/ N	O/N	10/N	N/N	IJO/N	10/ N	IO/N	O/N	O/N	O/ N

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

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 remote controller.

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

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

*7. 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.

For indoor use only.

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Individual _ Remote Controller

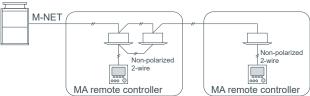
Wired MA remote controller PAR-31/32MAAE





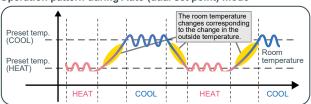
Dimensions: 120(W) x 120(H) x 19(D) mm : 4-3/4(W) x 4-3/4(H) x 3/4(D) in.

Example of system configuration



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

Operation pattern during Auto (dual set point) mode



Functions

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

Dual set point

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

*Please contact your Mitsubishi Electric sales office for details.

• Backlit LCD (Liquid Crystal Display)

Large, easy-to-see display

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

Night Setback

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

Language selection

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

For advanced i-See Sensor functions for the PLFY-VFM, PAR-32 is required.

	Switches between ON and OFF.	X: Not ava	ailable
Item	Description	Operations	Display
ON/OFF	Switches between ON and OFF.	0	0
Operation mode switching	Switches among Cool/Dry/Fan/Auto/Heat.	0	0
Room temp. setting	Cool/Drý : 19°C - 30°C / 67°F - 87°F Heat : 17°C - 28°C / 63°F - 83°F Auto : 19°C - 28°C / 67°F - 83°F	0	0
Air flow direction setting		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	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.)	-	0
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	0	0
Allows/disallows local operation	The following operation can be prohibited by making certain settings on the centralized controller: ON/OFF, operation mode setting, temperature setting, fan speed, air direction, and filter sign reset. * While an operation is prohibited, the operation icon lights up (only on the Main display in the "Full" mode).	×	0
Operation lock		0	0
Temperature range restriction	The room temperature range for each operation mode can be restricted.	0	0



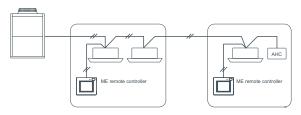
Individual Remote Controller

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.

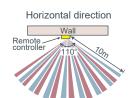
• Device control via AHC (Advanced HVAC Controller)

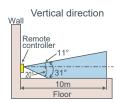
Allows for control of other manufacturer's products connected via AHC.

• Auto (Dual Set Point) Modes

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

Occupancy Sensor detection zone





Functions

	○:Each gro	oup X:No	t available
Item	Description	Operations	Display
ON/OFF	Switches between ON and OFF.	0	0
Operation mode switching	Switches between Cool / Drying / Fan / Heat / Auto. Operation modes vary depending on the indoor unit model. Auto mode is for CITY MULTI R2, and WR2 series only.	0	0
Temperature setting	The temperature can be set within the following range. Cool / Drying : 19°C - 36°C / 67°F - 95°F Heat : 4.5°C - 28°C / 40°F - 83°F Auto : (single set point) : 19°C - 28°C / 67°F - 83°F Auto : (dual set point) : 19°C - 28°C / 67°F - 83°F Auto : (dual set point) : 19°C - 28°C / 67°F - 83°F Auto : (dual set 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

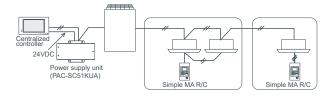
Simple remote controller PAC-YT52CRA (MA)





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

MA Touch Remote PAR-CTO1MAA



Full Colour Touch Panel 3.5" Display

Featuring a 3.5" HVGA Full Colour LCD screen

Customisable Colour Options

180 different colour patterns can be selected for control parameters or background. A wide variety of colours are available to suit the décor of any room.

Hotel Setting

A simple operation panel is available to display only ON/OFF, set temperature and fan speed – ideal for hotels.

■ Functions

Item	Description	Setting	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 *3							
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				
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				
Auto descending panel *1	Raises and lowers the automatic elevating panel.	0	0				
Touch panel & Backlit full color LCD	Pressing any button turns the backlight on and it will stay lit for a certain period of time depending on the screen. The color of the backlight can be changed.	0	0				
Main display mode setting	The Main display can be displayed in two different modes: "Full" and "Basic." The icon explanation setting can be enabled or disabled.	0	0				
Clock *2	Date (year/month/day) and time (hour/minute) can be set. The set time as well as the day of the week will be displayed on the Main display. It is also possible to set not to display the time on the Main display.	0	0				
Daylight saving time	The start/end time for daylight saving time can be set. The daylight saving time function will be activated based on the setting contents.	0	0				
Clock display	The clock can be displayed in 12-hour format (AM/PM before or after the time) and 24-hour format.	0	0				
Room temp. display *3	The room temperature display can be enabled or disabled.	_	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				
Filter information	A filter sign will appear when it is time to clean the filter.	_	0				
Touch panel	The touch panel can be cleaned and calibrated.	_	0				
Bluetooth connection, Bluetooth, Screen update	The Bluetooth connection information can be acquired. Using an Application, a logo image as well as settings data can be sent to the remote controller.	0	0				
Remote controller	The version of the remote controller can be checked.	_	0				

Logo Customisation

Your company logo or image can be displayed on the screen.

Bluetooth **Functionality**

The controller can communicate with a smart phone or tablet device via Bluetooth.

Operation and Setting App is available on the App Store.





PAR-CT01MAA

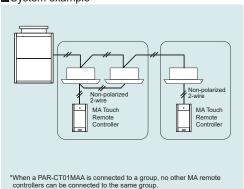
2. Schedu	le and timer setting O: Each gro	up X: No	t available
Item	Description	Setting	Display
Timer	ON/OFF timer Turns ON and OFF daily at a set time. • Time can be set in 5-minute increments. • It is also possible to set the ON time only or the OFF time only. Auto-OFF timer Turns off the unit after a certain period of operation. • Operation time can be set to a value from 30 to 240 minutes in 10-minute increments.	0	0
Weekly timer	Weekly ON/OFF times 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
Night setback	The temperature range and the start/stop times can be set.	0	0

3. Restriction settings O: Each group X: Not available				
Item	Description	Setting	Display	
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, and filter sign reset. "White an operation is prohibited, the operation icon lights up (only on the Main display in the "Full" model).	×	0	
Operation lock	The following operation can be prohibited respectively: "Location," "On/Off," "Mode," "Set temp.," "Menu," "Fan," "Louver," or "Vane."	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	×	
password	Administrator password (required for schedule setting etc.) and Maintenance password (required for test run and function setting etc.) can be set.	0	×	

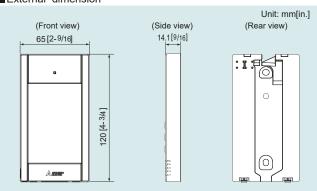
4. Miscellaneous items O: Each group			t available
Item	Description	Setting	Display
Language Selection	English, French, Spanish, Italian, Portuguese, Greek, Turkish, Swedish, German, Dutch, Russian, Czech, Hungarian, Polish	0	0
Brightness	The brightness of the LCD can be adjusted. The "Stay lit" setting can be enabled or disabled.		0
Manual vane Angle *1	Fixes the vane position for each air outlet.	0	×
Service *1	Contains Test run, Function setting, Refrigerant volume check, Refrigerant leak check, Smooth maintenance, Request code, and Error history.	0	0
3D i-See sensor	Settings for 3D i-See sensor can be made.		0
Design	The color of the screen can be changed.		0

- 1 This function is active only for the units that support the function.
 2 The clock is accurate within 50 seconds per month (at the temperature of 25°C [77°F]). The clock is backed up for 7 days.
 3 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.

■System example



■External dimension





Remote Controller

Wireless remote controller PAR-FL32MA / PAR-SL100A-E / PAR-FA32MA / PAR-SA9FA-E / PAR-SF9FA-E / PAR-SL94B-E



PAR-FL32MA

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



PAR-FA32MA

Dimensions: 70(W) x 120(H) x 22.5(D) mm : 2-3/4(W) x 4-3/4(H) x 7/8(D) in.



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

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



PAR-SF9FA-E (2x2 Cassette signal receiver)

Dimensions: 214(H) x 25.5(D) mm

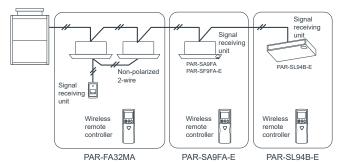


PAR-SL94B-E (Wireless remote controller kit for ceiling suspended)

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

- No need to configure addresses for group operation.
- · Lit LED keeps you informed of operation blinking even gives you the error code via the number of blinks.
- Can be used with the MA remote controller.
 - *When used in group configurations, wiring between indoor units is required.
 - *Combining ME remote controller and/or LOSSNAY remote controller in a group is not possible.
- Multiple indoor units cannot be controlled from PAR-SL100A-E. Only one indoor unit can be used in each group.
- LCD temperature setting and display in 1°C /1°F increments.

Example of system configuration



Correspondence table

'	correspondence table		
		receiver	transmitter
	PMFY-P*VBM		
	PLFY-P*VLMD		
	PFFY-P*VKM		
	PEFY-P*VMR-E/R/VMH	PAR-FA32MA	PAR-FL32MA
	PFFY-P*VLEM/VKM/VLRM/VLRMM		
	PEFY-P*VMS1(L)		
	PEFY-P*VMA(L)		

	receiver	transmitter
PCFY-P*VKM	PAR-FA32MA PAR-SL94B-E	
PLFY-P*VBM-E	PAR-SA9FA-E	PAR-FL32MA
PKFY-P*VBM-E PKFY-P*VHM-E/VKM	Built-in	PAR-FL32IVIA
PLFY-P*VFM-E1	PAR-SF9FA-E NEW)

Functions

	○: Each group	X : Not ava	ilable
Item	Description	Operations	Display
ON/OFF	ON and OFF operation for a single group	0	0
Temperature setting	Sets the temperature for a single group Range of temperature setting Cool/Dry: 19°C - 30°C (14°C - 30°C) / 67°F - 87°F (57°F - 87°F) Heat: 17°C - 28°C (17°C - 28°C) / 63°F - 83°F (63°F - 83°F) Auto: 19°C - 28°C (17°C - 28°C) / 67°F - 83°F (63°F - 83°F) () For PEFY/PFFY by setting DipSW 7-1 to ON and limits to HIGH 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	0*1
Ventilation equipment	Up to 16 indoor units can be connected to an interlocked system that has one LOSSNAY. The LOSSNAY will run in interlock with the operation of indoor unit. *2 The fan rate and mode cannot be changed.	X*2	×

^{*}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.

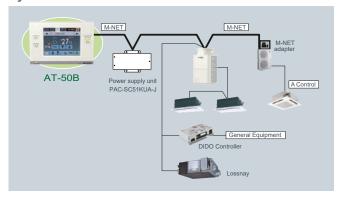


- Temperature will be displayed either in Centigrade in 0.5or 1-degree increments, or in Fahrenheit, depending on the indoor unit model and the display mode setting on the remote controller
- Dual set point

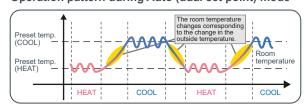
When the operation mode is set to the Auto (dual set point) mode, two preset temperatures (one each for cooling and heating) can be set. Depending on the room temperature, indoor unit will automatically operate in either the Cool or Heat mode and keep the room temperature within the preset range.

*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 →						
Item	Description					
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.



Centralised **Remote Controller**

NEW

Dual

Point

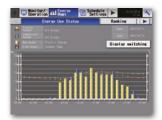
Centralised controller AE-200E/AE-50E



Dimensions: 284(W) x 200(H) x 65(D) mm

: 11-5/32(W) x 7-27/32(H) x 2-9/16(D) in.

Control Screen for Power Consumption



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

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

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



Energy consumptions of air-conditioning equipment are ranked and displayed by individual air-conditioning equipment and by area, thus 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
- · Floor layout is displayed on the 10.4-inch LCD touch panel, facilitating easier operation of air-conditioning equipment

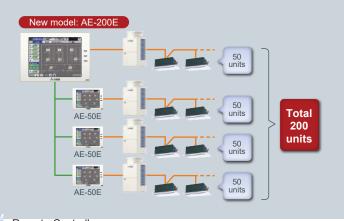
· In an easy and flexible manner, an optimum system can be established according to the scale of facilities

- · 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 CRHV*2

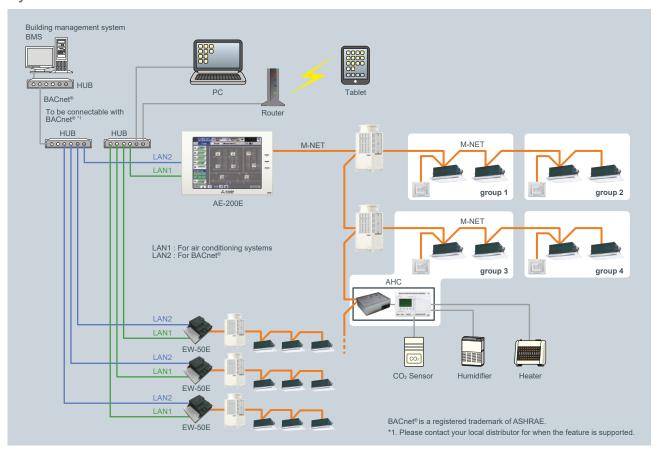
- Centralised batch control on CAHV, PWFY, and CRHV *2 is possible in addition to that on air-conditioning unit
 - *2. Please contact your local distributor for when these features are supported on CRHV.

Number of connectable units



Remote Controller

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) -25°C (95°F) [14°C (57°F) -30°C (87°F)] Heat: 4.5°C (40°F) -28°C (83°F) [17°C (63°F) -28°C (83°F)] Auto: 19°C (67°F) -28°C (83°F) [17°C (63°F) -28°C (83°F)] The range of temperature depends on the air conditioning unit. [] in case of using middle-temperature on PDFY, PEFY-VML/VMR/VMS/VMH-by setting DipSW7-1 to ON. Yet, PEFY-P-VMH-E-F is excluded.	○◎△●	0	
Fan speed setting	Models with 4 air flow speed settings: Hi/Mid-2/Mid-1/Low Models with 3 air flow speed settings: Hi/Mid/Low Models with 2 air flow speed settings: Hi/Low Fan speed setting (including Auto) varies depending on the model.	004	0	
Air flow direction setting	Air flow direction angles, 4-angles or 5-angles Swing, Auto (Louver cannot be set)	0040	0	
Schedule operation	Weekly schedule can be set by groups based on daily operation pattern.			
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.	×	ПО	
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	Ō	
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			
New Web design	The web screen design is renewed for user friendly interface. *1 ○ ○ △ ●			
Initial setting software	The initial setting can be configured without the connection of AE-200E. *1			
Apportionment of power consumption	Apportionment of power consumption can be calculated on AE-200 without TG-2000A. *1			
BACnet® communication	ANSI/ASHRAE 135-2010 (ISO16484-5) is supported and approved by the BTL. *1		×	

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



Centralised Remote Controller or Expansion Module for AE200

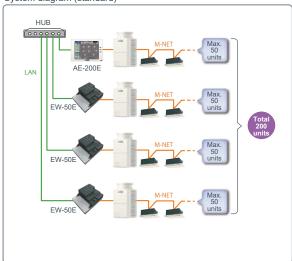
Centralised controller EW-50E



Dimensions: 209(W) x 172(H) x 92(D) mm : 8-1/4(W) x 6-25/32(H) x 3-5/8(D) in.

System Structure

System diagram (standard)

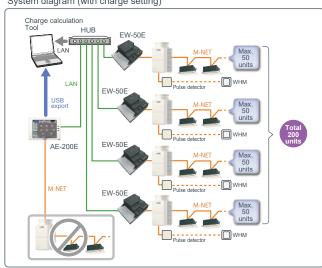


* When M-NET of AE-200E is not used, a maximum of four EW-50E units can be connected

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
 - *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	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
Set temperature 0.5°C	The temperature can be set and displayed in 0.5°C increments.		
increments	* With some unit combinations, the temperature is set in 1°C increments.	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.		Ŏ
Air direction setting	Fixed swing in five levels or auto air direction can be set. * Available air directions differ depending on the unit.	0	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	0.1	O *1
Filter reset	Filter sign reset		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

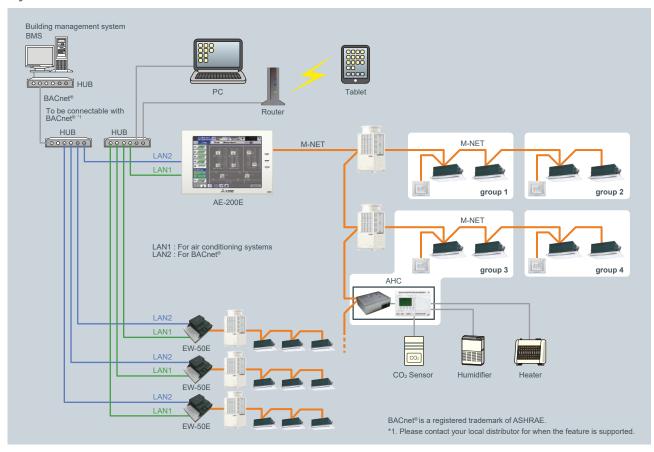
Environmental measuring controller, metering measurement controller, general interface

- * 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

	□ : Each unit ○ : Each group ● : Each block △ : Each floor ○	: Collective X: I	Not available
Item	Description	Operations	Display
Controllable number of unit	Up to 50 units/50 groups		
ON/OFF	ON and OFF operation for the air conditioning units and general equipment. (To operate general equipment, PAC-YG66DCA is required.)	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)	0000	0
Schedule operation	Weekly schedule can be set by groups based on daily operation pattern.		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.		0
Indoor unit intake temperature	Measures the intake temperature of the indoor unit only when the indoor unit is operating.	×	0
Error	When an error is currently occuring on an air conditioning unit, the afflicated unit and the error code are displayed.	×	
Test run	This operates air conditioning units in test run mode.	004	0
Ventilation interlock	The ventilation unit (LOSSNAY) is able to automatically start its operation when operation of the interlocked indoor unit starts.	0000	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	$\bigcirc\bigcirc\bigcirc\triangle\bigcirc$	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.

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.

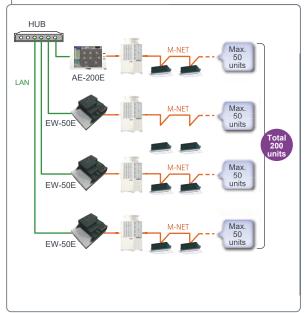
Apportioned electricity charge function

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.

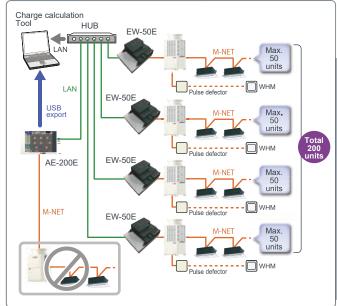
- *The apportioned electricity charge function on AE-200E and TG-2000A cannot be used together.
- *To use the apportioned electricity charge function on AE-200E, check that the version of TG-2000A is 6.60 or later, even if the electricity charge function on TG-2000A is not used.
- *For other restrictions,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

[System Structure]

System diagram (standard)







^{*} 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

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.

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 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	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.	_	
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.)	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 **
Filter reset	Filter sign reset		
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 '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.



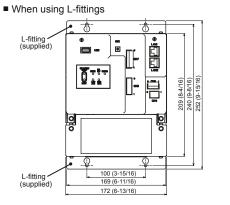
SPECIFICATIONS -

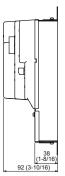
Item	Description			
No. of indoor units that can be connected and controlled	Up to 50 units*1	per EW-	50E	
Monitoring/operation	Web-based mo	nitoring a	nd operation, or monitoring and operation through the AE-200E LCD display	
Product dimensions	209 mm (H) ×1	72 mm (V	V) × 92 mm (D)	
Power supply	AC100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

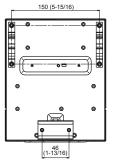
*2. The product should be used in a business office environment, or the equivalent.

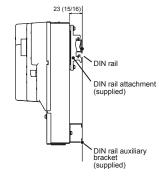
EXTERNAL DIMENSIONS





■ When using DIN rail





Advanced _____ HVAC Controller

PAC-IF01AHC-J + PLC



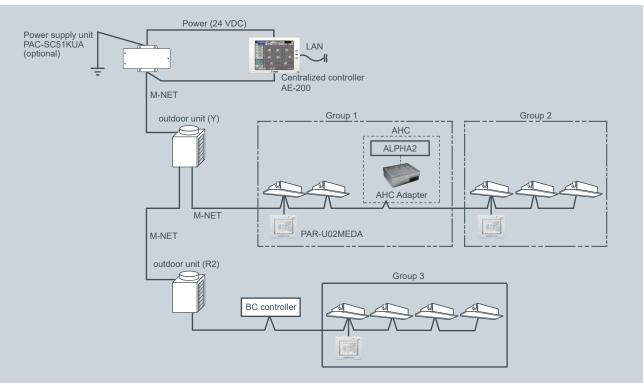
Dimensions: 116(W) x 90(H) x 40(D) mm : 4-9/16(W) x 3-1/2(H) x 1-9/16(D) in. Advanced HVAC Controller (hereafter referred to as AHC) comprises of Mitsubishi Electric's AHC Adapter (PAC-IF01AHC-J) and $\alpha 2$ Simple Application Controller* (hereafter referred to as ALPHA2).

*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.
- 6 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.

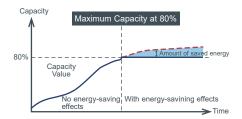
*24 VDC power needs to be provided on site.

Energy Saving Control (Peak Cut)

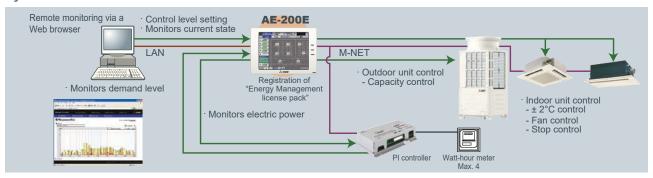
Enables Energy Saving Control with the use of our new PI controller. (Registration of "Energy Management license pack" is required.)

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.



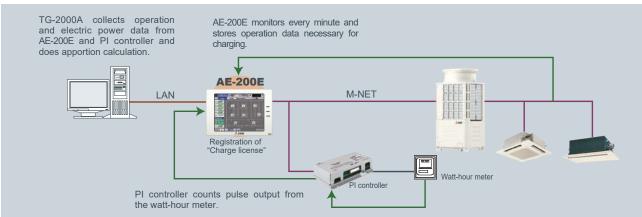
System Structure



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



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

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

The AI controller has two input and two output channels.

*24 VDC power needs to be provided on site.

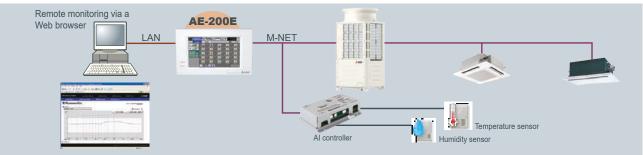
Temperature/Humidity Monitoring

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

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

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

System Structure



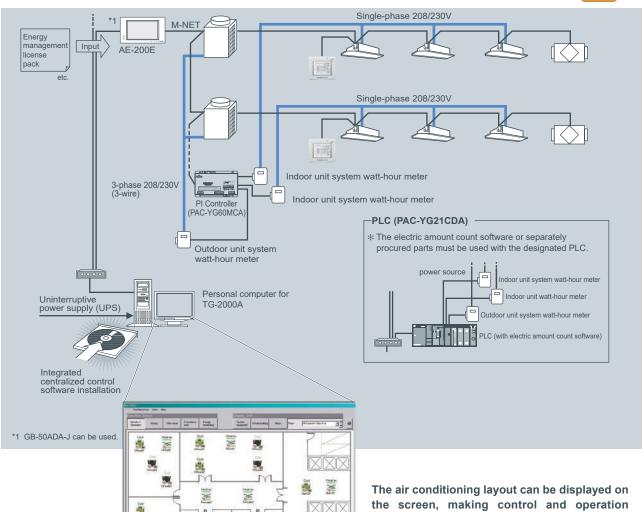


Remote Controller

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.

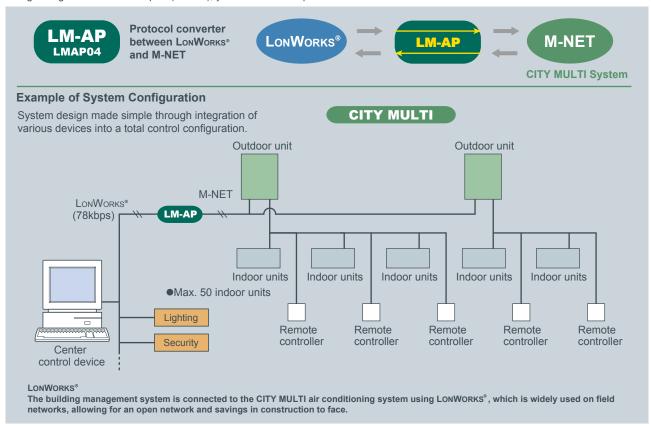
BMS Interface Modules

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.



Lon, LonWorks® and the Echelon logo are trademarks of Echelon Corporation registered in the United States and other countries.

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

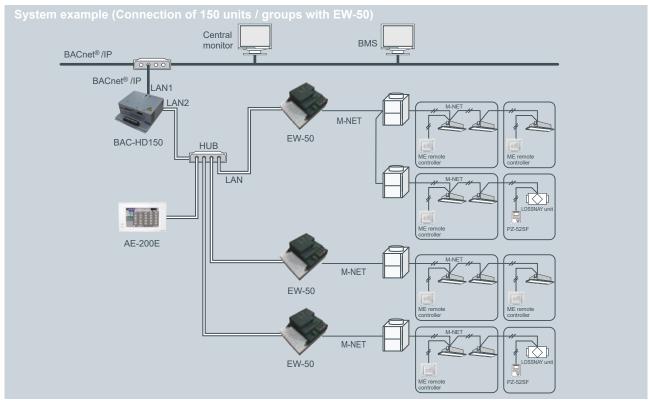
BACnet® (BAC-HD150)

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

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

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



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



Product Information

MELCOBEMS MINI BEMS Interface

Making a World of Difference

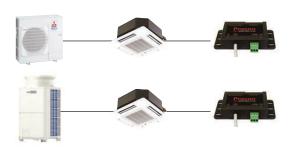
Controls

BEMS	INTERFACES	MELCOE	MELCOBEMS MINI	
Description		Interface. Air	Air to Air Splits Modbus/BACnet Interface. Air (Water) to Water Modbus Interface	
Connect to		In	Indoor	
Max Numbe	er of Units		1	
Compatibili	ty		M Series, Mr Slim, Ecodan FTC4/5, CAHV, CRHV	
Power Supp	oly		-	
Dimensions	(mm) (WxDxH)	70 x	70 x 19 x 50	
Network		Modbus / E	Modbus / BACnet RS485	
BEMS Compatibility		Crestron Interacti North BT, And	Cylon, Satchwell, Crestron, Invensys, Interactive Homes, North BT, Andover, Siemens, WEMS, RDM	
Control		Air to Air Splits	Air (Water) to Water	
	On/Off	DI	Al	
	Mode	Al	Al	
	Setpoint	Al	Al	
	Fan Speed	Al	-	
	Air Direction	Al	-	
	Permit/Prohibit	X	Al	
	Filter Sign	DI	-	
Monitor	On/Off	DO	DO	
	Mode	AO	AO	
	Setpoint	AO	AO	
	Fan Speed	AO	-	
	Air Direction	AO	-	
	Permit/Prohibit	X	AO	
	Filter Sign	DO	-	
	Fault Codes	AO	AO	
	Room Temperature	AO	AO	
	Daily kW Energy	-	AO	
	Monthly kW Energy	-	AO	

 $\textbf{Key:} \ \textbf{DI} = \textbf{Digital Input.} \ \ \textbf{DO} = \textbf{Digital Output.} \ \ \textbf{AI} = \textbf{Analogue Input.} \ \ \textbf{AO} = \textbf{Analogue Output.}$

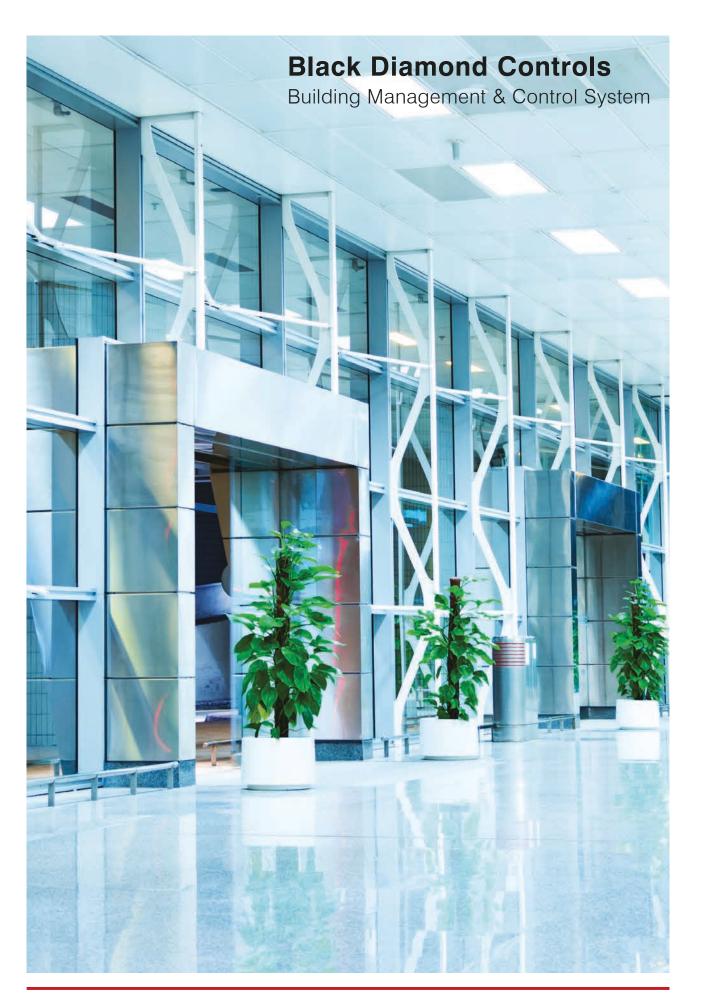
Front View 95 mm 70 mm Top View Procon Melcobems Mini (A1M) AC ON105 AC ACM CON205

SYSTEM DIAGRAM





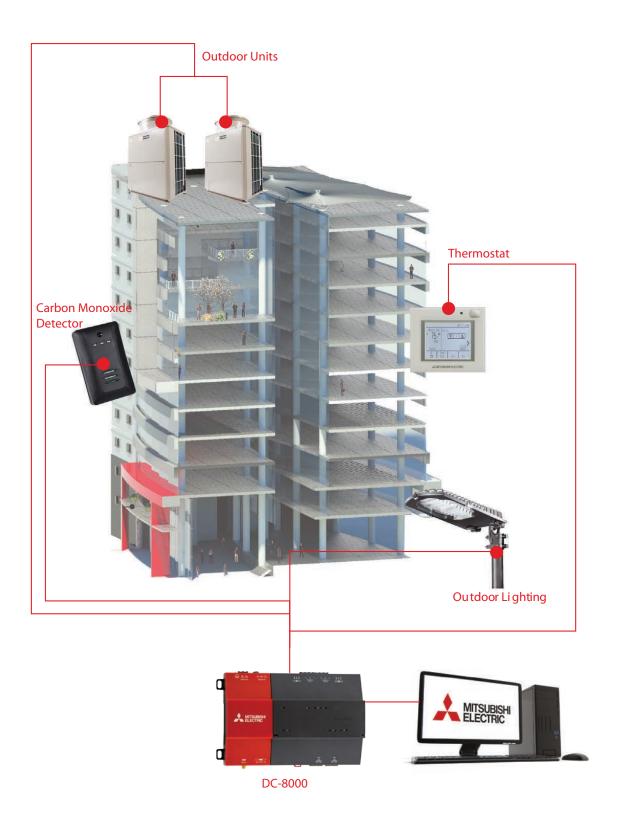
Note: Power supply provided by connected Indoor unit. No additional power supply required.





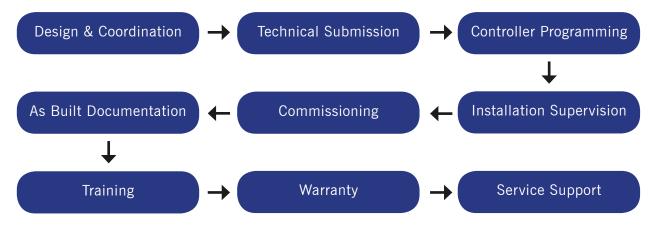
Building Management & Control System

Black Diamond Controls is a specialised bundled and seamless building controls solution. Powered by the industry leading Niagara Framework®, designed to integrate diverse building systems and devices into one seamless networked solution.



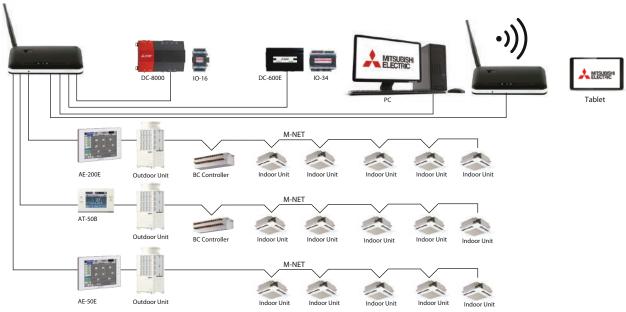
Customisable Solution

Many aspects must be considered when developing and commissioning an effective Building Management System that meets project requirements. Black Diamond Controls provide not only quality hardware and an industry leading integration platform, but also service solutions that go far beyond what is traditionally offered. Black Diamond Controls are involved in all aspects of a project as outlined in the diagram below.



Integration with Mitsubishi Electric Air Conditioning Systems

Black Diamond Controls enables advanced integration with Mitsubishi Electric Air Conditioning units via an exclusive interface, providing a single point of access to control and monitor the system. Controlling numerous systems through a single centralised user interface reduces the time it takes to make necessary adjustments and allows expanded capabilities.



Black Diamond Controls

Mitsubishi Electric DC-8000™ Controller

A compact, internet-ready controller and server platform.

Built with Niagara4 technology, the DC-8000[™] Controller utilises the latest version of Tridium's Niagara Framework[®]. The new interface and platform streamlines Internet of Things (IoT) connectivity and includes advanced visualization, new search capabilities, security and navigation tools.

Developed to provide integrated control, supervision, data logging, alarming, scheduling and network management, the DC-8000[™] connects multiple, diverse devices and subsystems. The controller is ideal for any size facility thanks to the scalability of the Niagara platform. Facility managers will find the controller's integration features useful, since it allows for control of multiple systems within a building, including HVAC, lighting energy and more.



Features:

- Multiple protocol support including LonWorks[™], BACnet[™], Modbus[®], legacy systems and so much more
- Exclusive Mitsubishi Electric M-NET driver
- Improved HTML5 web user interface
- Improved security
- Scalable deployment
- Energy Management capabilities
- Integration to with multiple systems including electrical, hydraulic, security and more.
- Interrogation is via a standard Web Browser with no additional software required.



Mitsubishi Electric DC-PRO Supervisor:

- The Mitsubishi Electric DCPro is a flexible network server for all connected DC-8000™ stations
- Harnesses the power of the Internet of Things to provide efficient integration of standard open protocols
- Creates a powerful network environment with comprehensive database management functionality, alarm management and messaging services



O ptional Parts

OPTIONAL PARTS FOR INDOOR UNITS

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

Madel	Applicable capacity		
Model	VBM	VFM	
SLP-2FA (L) (E)	-	P15, P20, P25, P32, P40, P50	
PLP-6BA	P20, P25, P32, P40, P50, P63, P80, P100, P125	_	
PLP-6BAJ	P20, P25, P32, P40, P50, P63, P80, P100, P125	-	
PAC-SH53TM-E	P20, P25, P32, P40, P50, P63, P80, P100, P125	_	
PAC-SH59KF-E	P20, P25, P32, P40, P50, P63, P80, P100, P125	-	
PAR-SA9FA-E	P20, P25, P32, P40, P50, P63, P80, P100, P125	_	
PAR-SF9FA-E	-	P15, P20, P25, P32, P40, P50	
PAC-SH48AS-E	P20, P25, P32, P40, P50, P63, P80, P100, P125	_	
PAC-SA1ME-E	P20, P25, P32, P40, P50, P63, P80, P100, P125	-	
PAC-SF1ME-E	-	P15, P20, P25, P32, P40, P50	
PAC-SH65OF-E	P20, P25, P32, P40, P50, P63, P80, P100, P125	=	
PAC-SH51SP-E	P20, P25, P32, P40, P50, P63, P80, P100, P125	_	
	PLP-6BA PLP-6BAJ PAC-SH53TM-E PAC-SH59KF-E PAR-SA9FA-E PAR-SF9FA-E PAC-SH48AS-E PAC-SA1ME-E PAC-SF1ME-E PAC-SF60F-E	Node VBM SLP-2FA (L) (E)	

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

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

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

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

Description	Model	Applicable capacity		
Description		VMH(S)-E	VMH-E2	Remarks
	PAC-KE04DM-F	P200, P250 (VMH-E)	-	
Drain pump	PAC-KE05DM-F	P200, P250 (VMHS-E)	-	
	PAC-DRP10DP-E	-	P40~P140	
	PAC-KE86LAF	-	P40, P50, P63	
Long life filter	PAC-KE88LAF	-	P71, P80	
Long life lifter	PAC-KE89LAF	-	P100, P125, P140	
	PAC-KE85LAF	P200, P250	-	
	PAC-KE63TB-F	-	P40, P50, P63	
	PAC-KE99TB-F	-	P71, P80	Necessary when long life filter is used
Filter box	PAC-KE140TB-F	-	P100, P125, P140	Necessary when long life lifter is used
	PAC-KE250TB-F	P200, P250	-	

>>Ceiling concealed type (PEFY-VMA(L)/VMA3)

Danasis dia sa	Model	Applicable capacity		
Description		VMA(L)	VMA3	
	PAC-KE91TB-E	P20, P25, P32	_	
	PAC-KE92TB-E	P40, P50	P20	
Filter box	PAC-KE93TB-E	P63, P71, P80	_	
	PAC-KE94TB-E	P100, P125	_	
	PAC-KE95TB-E	P140	_	

>>Fresh air intake type (PEFY-VMH(S)-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
Drain pump	PAC-KE06DM-F	P125, P200, P250

>>Ceiling suspended type (PCFY-VKM)

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

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

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

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

Description	Model	Applicable capacity
External LEV Box	PAC-SG95LE-E	P15, 20, 25, 32, 40, 50, 63
Drain pump kit	Micro Blue	P15, 20, 25, 32
	Mini Blue	P32, 40, 50, 63
	Maxi Blue Pro	P100



OPTIONAL PARTS FOR OUTDOOR UNITS

For Y series (PUHY)

Description	Model	Remarks
Relay Box	PAC-PH01KTY-E	Relay box should be used together with Panel heater
	PAC-PH01EHT-E	For S module
Panel heater	PAC-PH02EHT-E	For L module
	PAC-PH03EHT-E	For XL Modele
	CMY-Y100VBK3	For PUHY-(E)P400~(E)P650YSNW-A
Twinning kit	CMY-Y200VBK2	For PUHY-(E)P700~(E)P900YSNW-A
	CMY-Y300VBK3	For PUHY-(E)P950~(E)P1350YSNW-A
	CMY-Y102SS-G2	200 or below(Total capacity of indoor unit)
Dranch nine (laint)	CMY-Y102LS-G2	201-400(Total capacity of indoor unit)
Branch pipe (Joint)	CMY-Y202S-G2	401-650(Total capacity of indoor unit)
	CMY-Y302S-G2	651-above(Total capacity of indoor unit)
	CMY-Y104-G	For 4 branches
Branch pipe (Header)	CMY-Y108-G	For 8 branches
	CMY-Y1010-G	For 10 branches
	PAC-FG01S-E	For side surfaces of S and L modules (a set of two pieces)
	PAC-FG02S-E	For side surfaces of XL modules (a set of two pieces)
Fin Guard	PAC-FG01B-E	For rear surface of S module
	PAC-FG02B-E	For rear surface of L module
	PAC-FG03B-E	For rear surface of XL module

For R2 series (PURY)

Des	cription	Model	Remarks	
Relay Box	(PAC-PH01KTY-E	Relay box should be used together with Panel heater	
		PAC-PH01EHT-E	For S module	
Panel hea	ter	PAC-PH02EHT-E	For L module	
		PAC-PH03EHT-E	For XL Modele	
- · · ·		CMY-R100VBK4	For PURY-(E)P400~(E)P650YSNW-A	
Twinning	KIT	CMY-R200VBK4	For PURY-(E)P700~(E)P1100YSNW-A	
	2-Branch	CMY-Y102SS-G2	200 or below(Total capacity of indoor unit)	
	Joint Pipe	CMY-Y102LS-G2	201-400(Total capacity of indoor unit)	
		CMY-R201S-G	350 or below(Total capacity of indoor unit)	
		CMY-R202S-G	351-600(Total capacity of indoor unit)	
	Joint and	CMY-R203S-G	601-650(Total capacity of indoor unit)	
		CMY-R204S-G	651-1000(Total capacity of indoor unit)	
	Reducer	CMY-R205S-G	1001 or above(Total capacity of indoor unit)	
		CMY-R101S-G	For P200-P650 Outdoor unit	
For BC		CMY-R102S-G	For P700-P1100 Outdoor unit	
controller		CMY-R301S-G	For CMB-P104,106,108,1012,1016V-J (When the outdoor unit capacity is P200 to P300)	
		CMY-R302S-G	For CMB-P108,1012,1016V-JA (When the outdoor unit capacity is P200 to P900)	
	Reducer	CMY-R303S-G	For CMB-P108,1012,1016V-JA and for use with sub BC controller	
		CMY-R304S-G	For CMB-P1016V-KA(When the outdoor unit capacity is P200 to P1000)	
		CMY-R305S-G	For CMB-P1016V-KA and for use with sub BC controller	
		CMY-R306S-G	For CMB-P104V-KB	
	Branch pipe(Header)	CMY-R160-J1	Joint for connecting to two nozzles	
		PAC-FG01S-E*	For side surfaces of S and L modules (a set of two pieces)	
		PAC-FG02S-E*	For side surfaces of XL modules (a set of two pieces)	
Fin Guard		PAC-FG01B-E	For rear surface of S module	
		PAC-FG02B-E	For rear surface of L module	
		PAC-FG03B-E	For rear surface of XL module	

Note: When installing on 38HP model, please refer to DATABOOK.

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 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)			
		The 1st branch of P250-P300YLM			
	CMY-Y202S-G2	401~650 (Total capacity of indoor unit)			
		The 1st branch of P350-P600YLM / P400-P600YSLM			
	CMY-Y302S-G2	651 or above (Total capacity of indoor unit)			
		The 1st branch of P700-P900YSLM			
Branch pipe (Header)	CMY-Y104-G	For 4 branches			
	CMY-Y108-G	For 8 branches			
	CMY-Y1010-G	For 10 branches			
Twinning kit	CMY-Y100VBK3	For PQHY-P400~P600YSLM			
I WILLING KIL	CMY-Y200VBK2	For PQHY-P700~P900YSLM			

>>For PQRY series

Description	Model	Remarks		
Dranch 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		
	CMY-Q200CBK	For PQRY-P700~P900YSLM		

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 J-type BC controller cannot be connected to the P350 outdoor unit model or above, and the JA-type BC controllers cannot be connected to the 28HP model or above. The KB-type BC controllers (sub) cannot be connected to the outdoor unit directly, and be sure to use them with JA- and KA-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, EW-50E, 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, EW-50E 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, EW-50E 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, EW-50E 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, EW-50E, 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, EW-50E, 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		20,000 hours
Motor (Fan, Louver, drain pump)		20,000 hours	Valve (solenoid valve, four-way valve)	4	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.

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.)

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

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

	Base material	PUHY, PURY				
		YNW	YNW-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	1μm 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	$10\mu\mathrm{m}$ 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.
- 4 Wash the outdoor unit regularly.
- $2\,$ Don't protect the unit from rain. (Rain will clean the salt from the coil).
- 5 Repair any scratches on the panels.
- 3 Install the outdoor unit level to allow condensate drainage.
- 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 visit www.mitsubishi-electric.co.nz or call our Customer Service Team on 0800 784 382





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