



Hybrid VRF Catalogue

Next Generation 2-Pipe Heat Recovery Systems









CITY MULTI



The Hybrid VRF Advantage

"Water, rather than traditional refrigerant, is at the heart of the indoor units. This means there is no risk of refrigerant leaking into small confined spaces."



What is Hybrid VRF?

Next Generation 2-Pipe Water Based VRF Technology

Hybrid VRF is a unique 2-Pipe Heat Recovery VRF System that replaces refrigerant with water between the Hybrid Branch Circuit Controller and the indoor units.

This revolutionary design minimises the need for expensive and on-going leak detection servicing and is specifically designed for occupied spaces where quiet, energy efficient, simultaneous heating and cooling is valued.

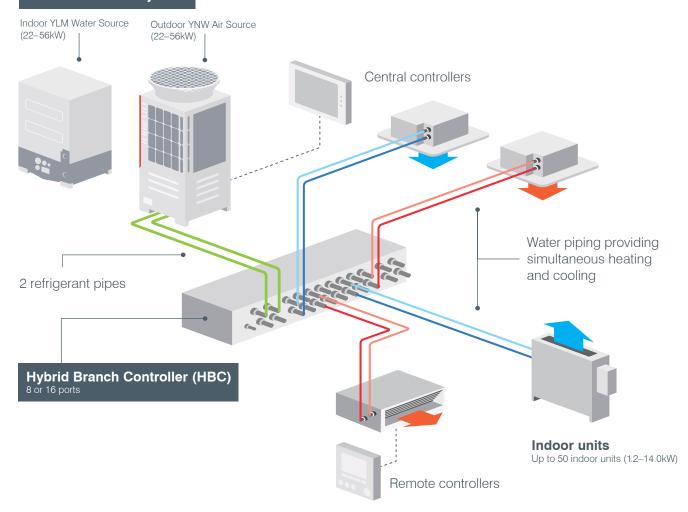
Hybrid VRF is quick, easy and flexible to design and install using the same control and network as traditional VRF systems. Furthermore, the decentralised system means phased installation is possible with similar high levels of seasonal efficiency expected with VRF.

With water at the indoor units, Hybrid VRF provides comfortable, stable air temperature control with no refrigerant

in occupied spaces, minimising the need for leak detection to comply with AS/NZS 5149. (1-4) 2016.

Hybrid VRF is a truly integrated modern heating and cooling solution for office buildings, hotels, hospitals, medical centres, schools, high-rise buildings, shopping centres and other commercial premises, where occupant comfort is paramount.

VRF Heat Recovery Unit





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The Hybrid VRF Advantage

"Hybrid VRF minimises the need for leak detection, reducing the total cost of the system and on-going maintenance of the leak detection system itself."



Where Can Hybrid VRF be Applied?







Hybrid VRF the Complete Solution for Today's Modern Buildings

City Multi Hybrid VRF Systems allow for a flexible layout, making installation simple. With the use of Centralised Control, HVRF can be utilised in a wide variety of applications that require individual space comfort settings such as hotels, offices, hospitals, nursing homes and schools.

Furthermore, HVRF minimises the potential hazards to people, property and the environment that could result from leakages of traditional refrigerant systems in confined occupied spaces.

Mixed-Use Buildings

As we look for ways to balance population growth in crowded city centres, more mixed-use properties are being developed; often combining retail, office, leisure and living spaces in the same building. Hybrid VRF provides a fully adaptable solution benefiting from air or water source options, using an extensive range of controls to ensure optimum performance.

Offices

Modern offices and commercial buildings need air conditioning systems that provide the highest levels of comfort, freshness and energy efficiency.

Hotels

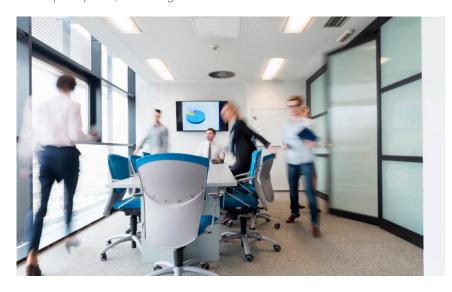
Customer comfort is paramount with legislation focusing attention on energy use and seeking to limit the use of refrigerant in occupied spaces. Hybrid VRF minimises the need for leak detection in the occupied space, thereby reducing the total cost of the system and ongoing maintenance of the leak detection system itself.

Hospitals and Medical Centres

With regards to patient health and safety, this system has no refrigerant in the indoor units and can deliver mild off-coil temperatures through the Water-Based Hybrid VRF indoor units. HVRF mitigates the need for leak detectors in consulting rooms and provides a solution to critical refrigerant limits outlined in AS/NZS 5149. (1-4) 2016.

Education

Providing comfort through temperature stability, removal of refrigerant from the occupied space and reduced noise – Hybrid VRF provides a truly integrated solution. Hybrid VRF delivers comfortable and stable air temperature control with no refrigerant in occupied spaces, minimising the need for leak detection.



The Hybrid VRF Advantage



VRF Performance with Hydronic Levels of Comfort

Building owners, facility managers and the construction industry have been looking for HVAC systems that deliver high operational efficiency whilst minimising the global warming potential of the refrigerants used within these systems.

Water Is at the Heart of the Indoor Units

Water, rather than traditional refrigerant, is at the heart of the indoor units. This means there is no risk of refrigerant leaking into small confined occupied spaces. Hybrid VRF minimises the need for leak detection, reducing the total cost of the system and ongoing maintenance of the leak detection system itself.

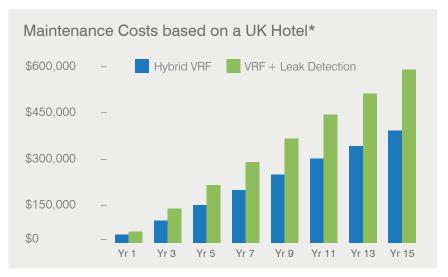
Minimise the Need for Leak Detection Systems

In commercial buildings, additional leak detection systems specific to air conditioning are often installed to safeguard occupants due to increasing safety regulations. This affects hotels in particular, where air conditioners are installed in the room space and occupant safety is critical.

A leak detection system is designed to trigger an alarm if refrigerant was to leak into the room space and initiate an evacuation of the space to try and prevent harm to the occupants. These systems can be expensive and add to the cost of design, build and maintenance.

Realise Significant Maintenance Cost Reductions

Throughout a system's lifetime, annual testing and the recalibration of leak detection sensors adds significant cost to a VRF system. Using Hybrid VRF instead, removes this need and could provide as much as 30% in maintenance savings over 15 years.



^{*} Based on a real project using costs from a Mitsubishi Electric Business Solutions Partner in the United Kingdom.

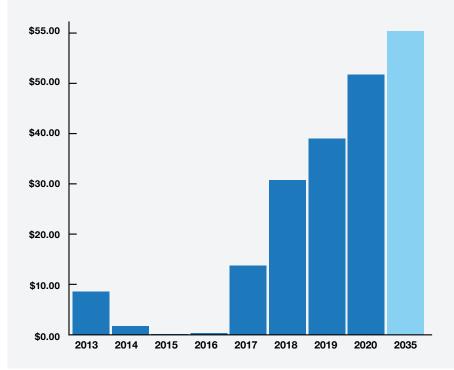
Emissions Trading Scheme

In New Zealand specifically, the ETS (Emissions Trading Scheme) has put a price on greenhouse gas emissions and provides an incentive to reduce emissions and promote strategies to absorb carbon dioxide.

This is known as the SGG (Synthetic Greenhouse Gas) Levy.

Due to the increasing cost of refrigerant associated with the ETS Synthetic Greenhouse Gas Levy (NZ), building capital and maintenance costs will continue to climb using traditional heating and cooling systems that utilise higher GWP refrigerants such as R410A.

HVRF reduces this as it uses less refrigerant in the total system.



Year	Levy Rate – per kg Refrigerant (R410A)						
2013	\$8.59	Actual					
2014	\$1.72	Actual					
2015	\$0.67	Actual					
2016	\$0.31	Actual					
2017	\$13.72	Actual					
2018	\$30.78	Actual					
2019	\$41.55	Actual					
2020	\$51.29	Actual					
2035	\$55.00	Prediction					





Hybrid VRF Key Features and Benefits

Provides Simultaneous Heating and Cooling with Full Heat Recovery

Hybrid VRF is an advanced simultaneous heating and cooling system with full heat recovery and delivers a proven alternative solution to traditional R410A VRF systems.

Energy Saving

Save more energy by Heat Recovery Operation if heating and cooling operations are required at the same time.

The more frequently heating and cooling simultaneous operation occurs, the higher the energy saving effect becomes.

Even higher efficiency operation is now possible by utilising the Centralised Control and scheduled operation.

Use Less Material and Equipment

Mitsubishi Electric's unique 2-Pipe Heat Recovery System requires less piping than a 4-Pipe Chiller System.

The system does not require an external pump, valves, sensors, actuators, or other ancilliary controls associated with conventional 4-Pipe Chiller Systems.

► Flexible Design and Modularity Allow for a Manageable Phased Installation

The small footprint and modular design means building owners can now take advantage of a manageable phased installation.

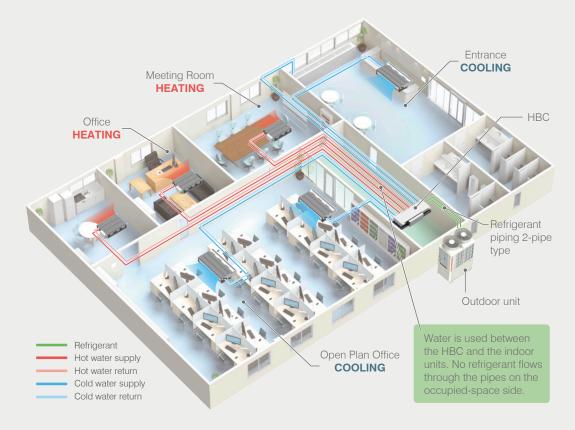


Image for representation only

Water Instead of Refrigerant Is at the Heart of the Indoor Units

It is based on a 2 pipe heat recovery VRF system but uses water as a heat exchange medium between the Hybrid Branch Controller and the indoor units.

As such, the system combines the comfort of a traditional hydronic system with the efficiency and ease of modern VRF air conditioning – giving you the best of both worlds.

Reduce Maintenance Costs and Maximise Safety by Minimising the Need for Leak Detection

Legislation is now demanding that leak detection equipment is installed alongside VRF air conditioning when it is used in small occupied spaces in accordance with AS/NZS 5149. (1-4) 2016.

The Hybrid VRF architecture minimises the need for leak detection in these confined areas. This is because water instead of refrigerant is piped between the branch box and the indoor units mounted in each room. As a result there is no risk of refrigerant escaping into the room space.

In addition to maximising occupant safety, significant up front equipment and on-going maintenance cost savings are able to be realised because expensive leak detection systems are not required to be installed and maintained within occupied rooms.

Quiet Operation Through Water Based Fan Coils

Because water instead of refrigerant is circulated through the terminal fan coils, quiet operation and silent off cycle operation is assured.

High Sensible Cooling and Stable Room Temperatures

Occupant comfort is paramount. Hybrid VRF Systems deliver milder off coil temperatures and are specifically designed to provide a gradual rate of change of temperature within the air conditioned space delivering a comfortable and stable environment.

Furthermore Hybrid VRF offers on average a 10% increase in sensible cooling at terminal compared to traditional VRF systems.

Intuitive Load Adjusting

The latest YNW VRF refrigerant control plus water side optimisation, flow control valves, inverter-driven pumps, and heat recovery provides only the capacity needed while improving efficiency and comfort.

Heat Recovery Defrost Method

Typical defrost times of 5 minutes with immediate return to heating. Improving comfort throughout the heating season, ideal for office applications. No defrost on Water Source VRF Models.





Hybrid VRF Case Studies

Rototuna Junior High School - Gets NZ's First Hybrid VRF System

Recently Rototuna Junior High School was one of 23 new schools to open since January 2016. As with most schools it had an extensive list of requirements, which restricted how the building could be heated and cooled. Rototuna needed an HVAC solution suitable for the wide variety of offices, classrooms, and music rooms in the Junior High School building. Plus, the music practice rooms in particular were small and were required to be air-conditioned and had to meet strict acoustic performance requirements.



Mitsubishi Electric 22.4kW Hybrid VRF

The client required a mechanical system to resolve these unique requirements, which they did by utilising a Mitsubishi Electric Hybrid VRF System. This system was the first of its kind in New Zealand!

A Mitsubishi Electric Hybrid VRF 22.4kW System was installed to serve several music practice rooms, where noise control was the determining factor. As water is used instead of refrigerant throughout the indoor units, not only are they quiet operating, the Mitsubishi Electric Hybrid VRF indoor units enabled the music rooms to be fully sealed and soundproofed, without the client needing to install costly refrigerant leak detection systems.

A Mitsubishi Electric VRF Heat Recovery System and an AHU System were also installed to serve the heating, air conditioning, and ventilation requirements of the other areas of the building. All equipment selected was then wired to a BAC-HD150 to enable high-level control of all AC equipment via the BMS System.





Auckland University of Technology

The NorthMed Clinic is a new building situated at Auckland University of Technology's (AUT) North Shore Campus. This innovative facility which opened in July 2017, is comprised of modern medical offices and teaching spaces for Physiotherapy, Psychotherapy, Podiatry, Oral Health, and Student Health Services.

▶ The Challenge

The use of such small quarters for medical examination rooms meant that high refrigerant concentration levels in these spaces became a primary concern. This coupled with patient/doctor privacy being of utmost importance meant that door grilles could not be used for this project. Therefore a traditional VRF System (without refrigerant monitoring) would not suit this particular application.

The Solution

Three Mitsubishi Electric HVRF Systems were selected by the mechanical consultant to serve the smaller medical consulting rooms, along with one other standard Mitsubishi Electric VRF System to serve the common meeting and office areas.

The unique architecture of Mitsubishi Electric HVRF Systems use water in the primary loop between the branch controller and indoor units, enabling the client's refrigerant concentration concerns to be completely mitigated. This allowed total privacy in consultation rooms to be maintained, without the need to install door grilles as refrigerant piping did not run anywhere near the confined spaces.



Rotorua Te Aka Mauri

The vision to upgrade the existing Rotorua Library building into a new state of the art, centrally located, shared community facility comprising of the Rotorua Library, Children's Health Clinic and DHB offices.



The Challenge

The key challenge for this building was to cater for two tenants with very different layouts on each of the four floors.

Adding to this initial challenge was the desire to provide an efficient and comfortable HVAC solution that best fit within the scope of the pre-existing building structure.

The Solution

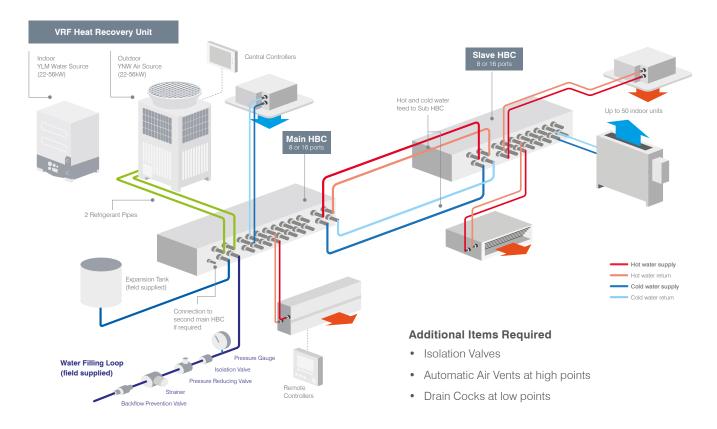
The best solution to meet the challenges was to select HVRF systems that provide heating and cooling to many of the mixed-use library and health hub areas. The HVRF Systems were selected by the consultant for the principle reason of having less extreme air-off temperatures, and slower temperature change responses across the fan coil units. This was particularly important in areas of the building with lower than usual internal ceilings.

With a wide variety of small capacity indoor model options available in the HVRF Range, specific indoor types were selected to suit each of the individual spaces. For example the external wall was extended out onto what was previously a balcony area. Several PFFY-WP50VLRMM-E floor concealed models were then selected to best suit this long, newly created open plan area, to be easily boxed out once the external wall had been constructed.

Hybrid VRF Technical System Overview

Hybrid VRF is based on a 2 pipe heat recovery VRF system but uses water as a heat exchange medium between the Hybrid Branch Controller and the indoor units.

As such, the system combines the comfort of a traditional hydronic system with the efficiency and ease of modern VRF air conditioning – giving you the best of both worlds.



Model Lineup Heat Recovery Unit 1st Main HBC 1st Slave HBC 2nd Main HBC 2nd Slave HBC PURY-YNW/PQRY-YLM P200 Required P250 Required P300 Required P350 Required P400 Required Required P450 Required Required P500 Required Required

P400, P450 and P500 must use a 2nd Main HBC

Image for representation only

Hybrid Branch Circuit (HBC) Controller

A - Plate Heat Exchangers

This is the point where the refrigerant circuit transfers its energy to the sealed water system.

There are two sets of Plate Heat Exchangers, both placed at opposite ends in the HBC.

Both sets provide hot water in heating mode or cold water in cooling mode.

During mixed mode, one set provides hot water while the other provides cold

B - Pumps

Each set of Plate Heat Exchangers has a DC Inverter Driven Water Pump.

This circulates the closed loop water system between the HBC and indoor units.

The discharge flow rate from the pump is controlled by the Valve Block.

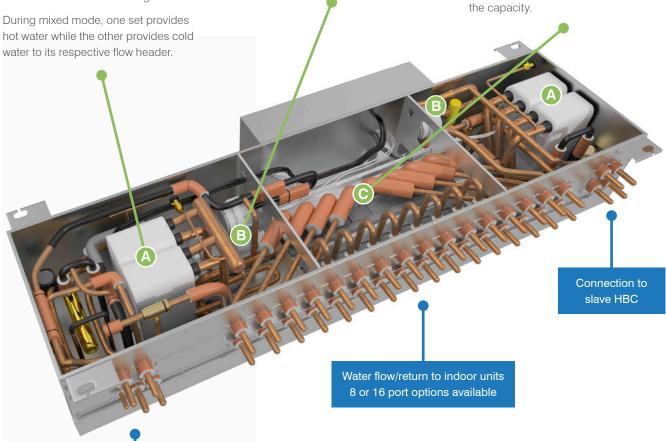
C - Valve Block

A Valve Block is connected between each flow and return port of the HBC.

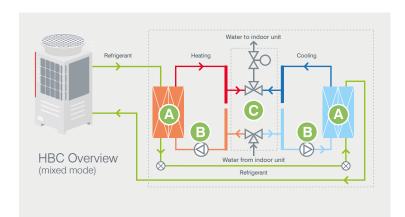
This Valve Block has two features;

Firstly, it has the choice of selecting between the two flow headers.

Secondly, it controls the flow of the water sent to the indoor unit, defining



Refrigerant pipes to outdoor unit, expansion tank (field supplied) and water filling loop (field supplied), and balancing line to 2nd main HBC.

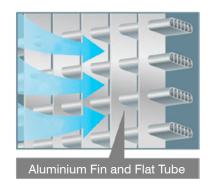


HVRF Air Source Outdoor Unit

Utilising the City Multi PURY-EP-YNW High COP Outdoor Unit Range increases seasonal efficiency of the system. It benefits from heat recovery and an energy efficient inverter-driven compressor, providing simultaneous heating and cooling. The ultimate in heat exchange efficiency with aluminium flat tube heat exchanger technology!





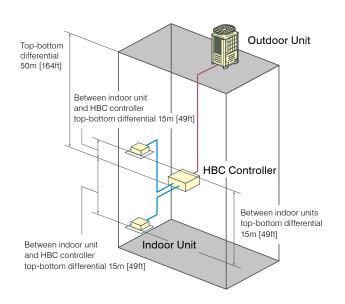


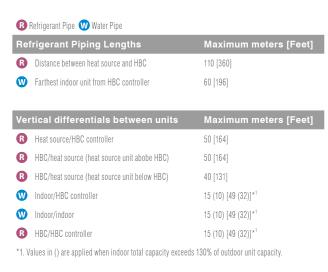
Inverter Compressor

Available on EP High COP Models Only

Model Lineup											
Horsepower	8HP	10HP	12HP	14HP	16HP	18HP	20HP				
Cooling Capacity	22.4kW	28.0kW	33.5kW	40.0kW	45.0kW	50.0kW	56.0W				

Piping Length





HVRF Water Source Unit

Water Source Units utilise water instead of air as the energy transfer medium, with all of the benefits of Mitsubishi Electric patented 2-Pipe Heat Recovery Technology, excellent efficiency and the flexibility of air source VRF systems. This system offers a viable solution where Air Source outdoor units are not feasible due to space or weight constraints in the outside plant area by using a condenser water loop for the means of heat injection and rejection, or where further efficiencies are able to be sought by the use of natural means such as rivers, lakes and closed loop ground bores.





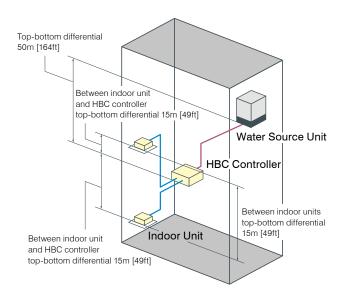
A sustainable and flexible solution for tall or unique buildings:

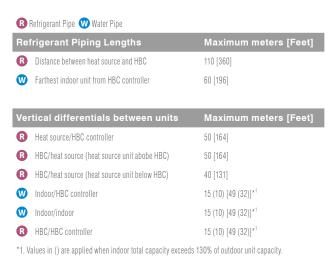
- Apply and network the energy through a water loop, within the building and between buildings

 optimising efficiency.
- Utilisation of geothermal sources, rivers or lakes, landlord loops, rejected heat from hydronic server cooling or other processes.
- City Multi Water Source Units offer double heat recovery through the conventional floor-wide heat recovery and floor to floor heat recovery via the water loop, this system also offers a solution where no defrost cycle is required in Heating Mode.
- Units are located indoors on each floor or a dedicated internal plant room ensuring design flexibility with pipework. These units are compact and do not require ventilation due to a refrigerant cooled inverter which leads to maximising tenant floor area.

Model Lineup											
Horsepower	8HP	10HP	12HP	14HP	16HP	18HP	20HP				
Cooling Capacity	22.4kW	28.0kW	33.5kW	40.0kW	45.0kW	50.0kW	56.0W				

Piping Length





Hybrid Branch Circuit (HBC) Controller

The HBC is used for the connection of the Air/Water Source Unit and the indoor units. The heat exchange for refrigerant and water is performed simultaneously using the industry's first and patented Hybrid VRF Technology.



Indoor Models

The following indoor units are exclusively for use with Hybrid City Multi.

Туре	Name	Model	10	15	20	25	32	40	50	63	71	80	100	125
Ceiling Concealed Low Static Pressure	PEFY-WP VMS1-E		•	•	•	•	•	•	•					
Ceiling Concealed Medium Static Pressure	PEFY-WP VMA-E				•	•	•	•	•	•	•	•	•	•
4-Way Airflow Cassette	PLFY-WL VEM-E	ma .					•	•	•					
Compact Cassette	PLFY-WL VFM-E		•	•	•	•	•							
Floor Standing Concealed	PFFY-WP VLRMM-E				•	•	•	•	•					
Wall Mounted	PKFY-WL VLM-E	Ann and	•	•	•	•	•	•						

Controller Range

Remote Controllers



Standard Controller PAR-33MAA

- Dual set point option
- Energy saving
- Backlit LCD screen
- Error information
- Operation lock
- · Weekly schedule
- Temperature range setting



Advanced M-NET Controller PAR-U02MEDA

- · Dual set point option
- Occupancy sensor
- · Brightness sensor
- · Energy saving
- Touch panel and backlit
- LED indicator
- Temperature and humidity sensor
- Weekly schedule
- Error information



Simplified Controller PAC-YT52CRA

- On-off
- Temperature control
- Fan speed
- Mode

Centralised Controllers and BMS Interface



F1 20°C

AE-200E

- 10.4 inch LCD touchscreen display
- Web access central control available via web browser
- 365-day time scheduler
- Energy consumption monitoring
- Programmable floor plan
- BACnet BMS Interface compatible



MelcoBEMS Mini BMS Interface

- MODBUS
- BACnet MS/TP

AT-50B

- Stand-alone centralised control
- Backlit LCD touchscreen
- Weekly and daily schedule



BAC-HD150 BMS Interface

- BACnet
- Connects directly to M-NET

MA Touch Remote PAR-CT01MAA-SB PAR-CT01MAA-PB



3.5" Touch Panel

Featuring a 3.5" HVGA Full Colour LCD Touchscreen.

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.

Hotel Setting

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

Logo Customisation

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

Customisable Colour Options

180 different colour patterns can be selected for control parameters or background.

Available in White and Premium Black.



Patented Hybrid VRF Technology

"True flexibility is achieved as the system is modular for a manageable phased installation."





Model				PURY-P200YNW-A (-BS)	PURY-P250YNW-A (-BS)			
Power sourc	e			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz			
			kW	22.4	28.0			
	Capacity (Nomin	al) *1	BTU / h	76,400	95,500			
	Power input		kW	7.00	9.92			
Cooling	Current input		A	11.8-11.2-10.8	16.7-15.9-15.3			
Ü	EER		kW / kW	3.20	2.82			
		Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)			
	Temp. Range *3	Outdoor	D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)			
	0 11 /11 1	1) *0	kW	25.0	31.5			
	Capacity (Nomina	ai) ^2	BTU / h	85,300	107,500			
	Power input		kW	7.08	10.06			
Heating	Current input		A	11.9-11.3-10.9	16.9-16.1-15.5			
	COP		kW / kW	3.53	3.13			
	T *0	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)			
	Temp. range *3	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)			
La da carros tra		Total capacity		50~150% of outdoor unit capacity	50~150% of outdoor unit capacity			
Indoor unit o	onnectable	Model / Quantity		WP10~WP125/1~30	WP10~WP125/1~37			
Sound press	ure level (measured	in anechoic room)*4	dB <a>	59/59	60.5/61			
Sound powe			dB <a>	76/78	78.5/80			
Defriesses	sining diameter	High pressure	mm (in.)	15.88 (5/8) Brazed	19.05 (3/4) Brazed			
Ketrigerant p	piping diameter	Low pressure	mm (in.)	19.05 (3/4) Brazed	22.2 (7/8) Brazed			
	Type x Quantity			Propeller fan x 1	Propeller fan x 1			
				170	185			
	Air flow rate		L/s	2,833	3,083			
Fan			cfm	6,003	6,532			
	Control, Driving mechanism			Inverter-control, direct-driven by motor	Inverter-control, direct-driven by motor			
	Motor output		kW	0.92 x 1	0.92 x 1			
	External static pr	ess. *5		0 Pa (0 mmH20)	0 Pa (0 mmH20)			
	Type			Inverter scroll hermetic compressor	Inverter scroll hermetic compressor			
C	Starting method			Inverter	Inverter			
Compressor	Motor output		kW	5.6	7.0			
	Case heater		kW	- (- V)	- (- V)			
External finis	sh			Pre-coated galvanized steel sheets (+powder coat	ing for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>			
Futamal diss	ension HxWxD		mm	1,858 (1,798 withou	t legs) x 920 x 740			
External dill	IGUSTOU HXWXD		in.	73-3/16 (70-13/16 without	legs) x 36-1/4 x 29-3/16			
	High pressure pro	otection		High pressure sensor, High press	ure switch at 4.15 MPa (601 psi)			
Protection	Inverter circuit (C	COMP./FAN)		Over-heat protection, O	ver-current protection			
devices	Compressor			-	-			
	Fan motor			-	-			
	Type/GWP			R410A / 2088	R410A / 2088			
	Eastery obersed	Weight	kg	5.2	5.2			
	Factory charged	CO2 equivalent *6	t	10.86	10.86			
Refrigerant	Max additional	Weight	kg	31.8	37.8			
	charge	CO2 equivalent *6	t	66.40	78.93			
	Total charge	Weight	kg	37	43			
	rotal charge	CO2 equivalent *6	t	77.26	89.78			
Net weight			kg (lbs)	229 (505)	229 (505)			
Heat exchan	ger			Salt-resistant cross	fin & copper tube			
Defrosting m	nethod			Auto-defrost mode (Reverse	d refrigerant cycle, Hot gas)			

 $\label{lower} \textbf{Unit Coverter: BTU/h} = \texttt{kW} \times 3,412, \text{ cfm} = \texttt{m3/min} \times 35.31 \text{ and lbs} = \texttt{kg/0.4536} \text{ (Please note these figures are subject to rounding variation)}$

- Notes:

 1. Nominal cooling conditions (subject to JIS B8615-2) Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Outdoor: 35°CD.B./24°CW.B. (95°FD.B./75°FW.B. Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

 2. Nominal heating conditions (subject to JIS B8615-2) Indoor: 20°CD.B. (68°FD.B.), Outdoor: 70°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.)

 3. -5°CD.B. (23°FD.B.)/-6°CW.B. (21°FW.B.) to 21°CD.B. (70°FD.B.)/15.5°CW.B. (60°FW.B.) with cooling/heating mixed operation.

- 4. Cooling mode/Heating mode
- External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH20, 6.1 mmH20, 8.2 mmH20). Consult your dealer about the specification when setting External static pressure option.
 This table is based on Regulation (EU) No517/2014.
- Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.
- Due to continuing improvement, above specifications may be subject to change without notice.



Model				PURY-P300	YNW-A (-BS)	PURY-P350	YNW-A (-BS)	
Number of H	3C controller			Single HBC	Double HBC	Single HBC	Double HBC	
Power source				3-phase 4-wire 380-	-400-415 V 50/60 Hz	3-phase 4-wire 380-	400-415 V 50/60 Hz	
	Consoite (Nomin	al\ *4	kW	33	3.5	40.0		
	Capacity (Nomin	di) I	BTU / h	114	,300	136	500	
	Power input		kW	13.34	11.31	17.93	14.59	
Cooling	Current input		A	22.5-21.3-20.6	19.0-18.1-17.4	30.2-28.7-27.7	24.6-23.3-22.5	
	EER		kW/kW	2.51	2.96	2.23	2.74	
		Indoor	W.B.	15.0~24.0°	C (59~75°F)	15.0~24.0°C (59~75°F)		
	Temp. Range *3	Outdoor	D.B.	-5.0~52.0°C	C (23~126°F)	-5.0~52.0°C	(23~126°F)	
	O it (N i	-D *O	kW	37	7.5	45.0		
	Capacity (Nomin	ai) "2	BTU / h	128	,000	153	500	
	Power input		kW	12.71	11.94	15.51	14.35	
Heating	Current input		A	21.4-20.3-19.6	20.1-19.1-18.4	26.1-24.8-23.9	24.2-23.0-22.1	
	COP		kW / kW	2.95	3.14	2.90	3.13	
	T	Indoor	D.B.	15.0~27.0°	C (59~81°F)	15.0~27.0°0	C (59~81°F)	
	Temp. range *3	Outdoor	W.B.		C (-4~60°F)	-20.0~15.5°	, ,	
	Total capacity				door unit capacity	50~150% of outo	,	
Indoor unit co	onnectable	Model / Quantity			P125/2~45	WP10~WF		
Sound pressure level (measured in anechoic room)*4 dB <a>			dB <a>		/67	62.		
	,	anechoic room) *4	dB <a>		86.5	81,		
		High pressure	mm (in.)		(4) Brazed	19.05 (3/4) Brazed		
Ketrigerant p	iping diameter	Low pressure	mm (in.)		8) Brazed	28.58 (1-1/8) Brazed		
	Type x Quantity			,	er fan x 1	Propelle	,	
	,, ,		m3/min		40	25		
	Air flow rate		L/s		000	4,1		
Fan			cfm		474		28	
	Control, Driving mechanism			,	rect-driven by motor	Inverter-control, dir		
	Motor output		kW		2 x 1	0.46		
	External static pr	ess. *5			mmH20)	0 Pa (0 mmH20)		
	Туре			,	metic compressor	Inverter scroll hermetic compressor		
_	Starting method				erter	Inverter		
Compressor	Motor output		kW		.9	10		
	Case heater		kW		- V)	- (-		
External finis				,	,	oating for -BS type) <munsell 1="" 5y="" 8="" or="" s<="" td=""><td></td></munsell>		
			mm		ut legs) x 920 x 740	1,858 (1,798 withou		
External dime	ension HxWxD		in.		ut legs) x 36-1/4 x 29-3/16	73-3/16 (70-13/16 withou	* /	
	High pressure pr	otection		10 0/10 (10 10/10 Million	• ,	essure switch at 4.15 MPa (601 psi)	110g0/ x 10 1/0 x 20 0/ 10	
Protection	Inverter circuit (0					, Over-current protection		
devices	Compressor	,,			-	, σοιτοικ βιοτοστίσι		
	Fan motor				-			
	Type/GWP			R410A	/ 2088	R410A	/ 2088	
		Weight	kg		.2	8		
	Factory charged	CO2 equivalent *6	Ü		.86		70	
Refrigerant	Max additional	Weight	kg		7.8	41		
J	charge	CO2 equivalent *6	-		86			
	-	Weight	kg		3.0			
	Total charge	CO2 equivalent *6			1.78	49.3 102.94		
Net weight			kg (lbs)		(510)	273		
Heat exchang	ier		3 ()	201	, ,	oss fin & copper tube	()	
					July 10010tullt 010			

Unit Coverter: BTU/h=kW×3,412, cfm=m3/min×35.31 and lbs=kg/0.4536 (Please note these figures are subject to rounding variation)

- Notes:

 1. Nominal cooling conditions (subject to JIS B8615-2) Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Outdoor: 35°CD.B./24°CW.B. (95°FD.B./75°FW.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

 2. 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.)

 3. -5°CD.B. (23°FD.B.)/-6°CW.B. (21°FW.B.) to 21°CD.B. (70°FD.B.)/15.5°CW.B. (60°FW.B.) with cooling/heating mixed operation.

- 4. Cooling mode/Heating mode
- Werning industrieating industrieating industrieating in the properties of the properties
- This table is based on Regulation (EU) No517/2014.
 Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.
- $\bullet \ \, {\hbox{Due to continuing improvement, above specifications may be subject to change without notice.}}$



Model				PURY-P400YNW-A (-BS)	PURY-P450YNW-A (-BS)	PURY-P500YNW-A (-BS)	
Power source	9			3-phase 4-wire 380-400-415 V 50/60 Hz			
01101 000100	,		kW	45.0	50.0	56.0	
	Capacity (Nomin	al) *1	BTU / h	153,500	170.600	191.100	
	Power input		kW	16.65	17.92	22.67	
ooling	Current input		A	28.1-26.7-25.7	30.2-28.7-27.7	38.2-36.3-35.0	
outing	EER		kW / kW	2.70	2.79	2.47	
	LLII	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)	
	Temp. Range *3	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)	
		Outuooi	kW	45.0		-5.0~52.0 C (25~126 F)	
	Capacity (Nomin	al) *2	BTU / h	45.0 153.500			
	Dames in aut			'	,	,	
	Power input		kW A	12122			
eating	Current input			22.6-21.4-20.6			
	COP		kW / kW	3.36		0.00	
	Temp. range *3	Indoor	D.B.	15.0~27.0°C (59~81°F)	` ,	,	
		Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	` '	, ,	
ndoor unit c	onnectable	Total capacity		50~150% of outdoor unit capacity	0.46 x 2 0.92 x 2 0 Pa (0 mmH20) 0 Pa (0 mmH20) Inverter scroll hermetic compressor Inverter scroll hermetic compresso		
	Model / Quantit			WP10~WP125/2~50			
	und pressure level (measured in anechoic room)*4 dB < A			65/69	'	'	
ound power level (measured in anechoic room) *4		dB <a>	83/88	·	,		
efrinerant n	iping diameter	High pressure mm (in.)		22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	
omgoram p	iping diameter	Low pressure mm (in.)		28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	
	Type x Quantity			Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	
			m3/min	315	315	295	
	Air flow rate	Air flow rate		5,250	5,250	4,917	
an			cfm	11,123	11,123	10,416	
	Control, Driving r	Control, Driving mechanism		Inverter-control, direct-driven by motor	Inverter-control, direct-driven by motor	Inverter-control, direct-driven by motor	
	Motor output	Motor output kW		0.46 x 2	0.46 x 2	0.92 x 2	
	External static pr	External static press. *5		0 Pa (0 mmH20)	0 Pa (0 mmH20)	0 Pa (0 mmH20)	
	Type			Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	
	Starting method			Inverter			
Compressor	Motor output		kW	10.9	12.4	13.0	
	Case heater		kW	- (- V)	- (- V)	- (- V)	
xternal finis				()	d steel sheets (+powder coating for -BS type) <munsel< td=""><td>(/</td></munsel<>	(/	
			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	
xternal dime	ension HxWxD		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	
	18-6			48-7/8 x 29-3/16	48-7/8 x 29-3/16	68-15/16 x 29-3/16	
	High pressure pro			High	pressure sensor, High pressure switch at 4.15 MPa (601	psi)	
rotection	Inverter circuit (C	UMP./FAN)			Over-heat protection, Over-current protection		
evices	Compressor			-	-	-	
	Fan motor			-	-		
	Type/GWP			R410A / 2088	R410A / 2088	R410A / 2088	
	Factory charged	Weight	kg	8.0	10.8	10.8	
	. zotor j onargou	CO2 equivalent *6		16.70	22.5	22.55	
efrigerant	Max additional	Weight	kg	47.3	44.5	45.2	
	charge	CO2 equivalent *6	t	98.76	92.92	94.38	
	Total charge	Weight	kg	55.3	55.3	56.0	
	Total Glarye	CO2 equivalent *6	t	115.47		116.93	
et weight			kg (lbs)	273 (602)	293 (646)	337 (743)	
eat exchang	jer			• •	Salt-resistant cross fin & copper tube	, ,	
	ethod				Auto-defrost mode (Reversed refrigerant cycle)		

- Notes:

 1. Nominal cooling conditions (subject to JIS B8615-2) Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Outdoor: 35°CD.B./24°CW.B. (95°FD.B./75°FW.B. Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

 2. 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.)

 3. -5°CD.B. (23°FD.B.)/-6°CW.B. (21°FW.B.) to 21°CD.B. (70°FD.B.)/15.5°CW.B. (60°FW.B.) with cooling/heating mixed operation.

- 4. Cooling mode/Heating mode
 5. External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH20, 6.1 mmH20, 8.2 mmH20). Consult your dealer about the specification when setting External static pressure option.
 6. This table is based on Regulation (EU) No517/2014.
- Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.
- Due to continuing improvement, above specifications may be subject to change without notice.



				PURY-EP200YNW-A (-BS)	PURY-EP250YNW-A (-BS)		
Power source	e			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz		
		D.41	kW	22.4	28.0		
	Capacity (Nomin	al) *1	BTU / h	76,400	95,500		
	Power input		kW	6.27	8.77		
Cooling	Current input		A	10.5-10.0-9.6	14.8-14.0-13.5		
	EER		kW / kW	3.57	3.19		
	T D *0	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)		
	Temp. Range *3	Outdoor	D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)		
	0	-1) *0	kW	25.0	31.5		
	Capacity (Nomin	ai) "2	BTU / h	85,300	107,500		
	Power input		kW	6.92	9.84		
Heating	Current input		A	11.6-11.0-10.6	16.6-15.7-15.2		
	COP		kW / kW	3.61	3.20		
	T *0	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)		
	Temp. range *3	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)		
Ladar 2		Total capacity		50~150% of outdoor unit capacity	50~150% of outdoor unit capacity		
Indoor unit c	onnectable	Model / Quantity		WP10~WP125/1~30	WP10~WP125/1~37		
Sound press	ure level (measured	in anechoic room)*4	dB <a>	59/59	60.5/61		
Sound power	r level (measured in	anechoic room) *4	dB <a>	73/78	78.5/80		
D (High pressure	mm (in.)	15.88 (5/8) Brazed	19.05 (3/4) Brazed		
Retrigerant p	iping diameter	Low pressure	mm (in.)	19.05 (3/4) Brazed	22.2 (7/8) Brazed		
	Type x Quantity			Propeller fan x 1	Propeller fan x 1		
				170	185		
	Air flow rate			2,833	3,083		
Fan			cfm	6,003	6,532		
	Control, Driving mechanism			Inverter-control, direct-driven by motor	Inverter-control, direct-driven by motor		
	Motor output		kW	0.92 x 1	0.92 x 1		
	External static pr	ess. *5		0 Pa (0 mmH20)	0 Pa (0 mmH20)		
	Туре			Inverter scroll hermetic compressor	Inverter scroll hermetic compressor		
0	Starting method			Inverter	Inverter		
Compressor	Motor output		kW	5.6	7.0		
	Case heater		kW	- (- V)	- (- V)		
External finis	sh			Pre-coated galvanized steel sheets (+powder coating	ng for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>		
- I P			mm	1,858 (1,798 without			
External dime	ension HxWxD		in.	73-3/16 (70-13/16 without l	• /		
	High pressure pr	otection		High pressure sensor, High pressu	• 7		
Protection	Inverter circuit (0	COMP./FAN)		Over-heat protection, Ov	` ' ' '		
devices	Compressor			-	-		
	Fan motor			-	-		
	Type/GWP			R410A / 2088	R410A / 2088		
	,	Weight	kg	5.2	5.2		
	Factory charged	CO2 equivalent *6	t	10.86	10.86		
Refrigerant	Max additional	Weight	kg	28.3	34.3		
	charge	CO2 equivalent *6	t	59.09	71.62		
	Total ab	Weight	kg	33.5	39.5		
	Total charge	CO2 equivalent *6	t	69.95	82.48		
Net weight			kg (lbs)	234 (516)	234 (516)		
Heat exchang	ger			Salt-resistant cross fin	· '		
	nethod			Auto-defrost mode (Reversed			

 $\label{lower} \mbox{Unit Coverter: BTU/h=kW} \times 3,412, \mbox{cfm} = \mbox{m3/min} \times 35.31 \mbox{ and lbs=kg/0.4536 (Please note these figures are subject to rounding variation)} \\ \mbox{variation} \mbox{variation} = \mbox{variation} + \mbox$

- 1. Nominal cooling conditions (subject to JIS B8615-2) 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. 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.)
- 3. -5°CD.B. (23°FD.B.)/-6°CW.B. (21°FW.B.) to 21°CD.B. (70°FD.B.)/15.5°CW.B. (60°FW.B.) with cooling/heating mixed operation.
- 4. Cooling mode/Heating mode
- 5. External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH20, 6.1 mmH20, 8.2mmH20). Consult your dealer about the specification when setting External static pressure option.
- 6. This table is based on Regulation (EU) No517/2014.
- * Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.
- $^{\star}\,$ Due to continuing improvement, above specifications may be subject to change without notice.



Model				PURY-EP30	DYNW-A (-BS)	PURY-EP350	YNW-A (-BS)		
Number of H	BC controller			Single HBC	Double HBC	Single HBC	Double HBC		
Power source					-400-415 V 50/60 Hz	3-phase 4-wire 380-			
			kW		3.5	40			
	Capacity (Nomin	al) *1	BTU / h		.300	136.	: -		
	Power input		kW	12.05	10.24	17.16	13.98		
Cooling	Current input		A	20.3-19.3-18.6	17.2-16.4-15.8	28.9-27.5-26.5	23.6-22.4-21.6		
ooomig	EER		kW / kW	2.78	3.27	2.33 2.86			
	LLII	Indoor	W.B.	=:: =	C (59~75°F)	15.0~24.0°C (59~75°F)			
	Temp. Range *3	Outdoor	D.B.		C (23~126°F)	-5.0~52.0°C	'		
		Outuooi	kW		, ,	45			
	Capacity (Nomin	Capacity (Nominal) *2 Power input		37.5 128.000		153,			
	Power input			11.71 11.12		15.38	14.28		
Heating	'	· · · · · · · · · · · · · · · · · · ·		19.7-18.7-18.1	18.7-17.8-17.1		24.1-22.9-22.0		
Heating	Current input COP		A kW/kW			25.9-24.6-23.7			
	VUF	Indoor	D.B.	3.20	3.37	2.92	3.15		
	Temp. range *3	Outdoor			C (59~81°F)	15.0~27.0°C	, ,		
			W.B.		°C (-4~60°F)	-20.0~15.5°I			
Indoor unit c	onnectable	Total capacity			door unit capacity	50~150% of outd			
0 1	1 1/	Model / Quantity	ID. A		P125/2~45	WP10~WP			
	,	in anechoic room)*4			/67	62.5			
Sound power	r level (measured in		dB <a>	,	86.5	81/			
Refrigerant p	iping diameter	High pressure	mm (in.)	,	(4) Brazed	19.05 (3/4) Brazed			
3 1	Low pressure m		mm (in.)		8) Brazed	28.58 (1-1/8) Brazed			
	Type x Quantity		m3/min	Propeller fan x 1		Propelle			
		At- flammata		240 4.000		25			
	Air flow rate		L/s			4,1			
Fan			cfm	,	474	8,8			
	Control, Driving mechanism				rect-driven by motor	Inverter-control, dir	· · · · · · · · · · · · · · · · · · ·		
	Motor output				2 x 1	0.46 x 2			
	External static pr	ess. *5		0 Pa (0	mmH20)	0 Pa (0 mmH20)			
	Type			Inverter scroll her	metic compressor	Inverter scroll hermetic compressor			
Compressor	Starting method			Inv	erter	Inve	rter		
OUIIIPIGGGGI	Motor output		kW	7	'.9	10.2			
	Case heater		kW	- (- V)	- (-	V)		
External finis	sh				· · · · · · · · · · · · · · · · · · ·	ating for -BS type) <munsell 1="" 5y="" 8="" or="" s<="" td=""><td></td></munsell>			
Evternal dim	ension HxWxD		mm	1,858 (1,798 witho	ut legs) x 920 x 740	1,858 (1,798 withou	legs) x 1,240 x 740		
LAtornar unin	CIISIOII IIAWAD		in.	73-3/16 (70-13/16 withou	ut legs) x 36-1/4 x 29-3/16	73-3/16 (70-13/16 withou	t legs) x 48-7/8 x 29-3/16		
	High pressure pr	otection			High pressure sensor, High pres	ssure switch at 4.15 MPa (601 psi)			
Protection	Inverter circuit (0	COMP./FAN)			Over-heat protection,	Over-current protection			
devices	Compressor				-	-			
	Fan motor				-	-			
	Type/GWP			R410A	/ 2088	R410A	/ 2088		
	Egotory oborga d	Weight	kg	5	.2	8.	0		
	Factory charged	CO2 equivalent *6	t	10	.86	16.	70		
Refrigerant	Max additional	Weight	kg	3	4.3	3	9		
	charge	CO2 equivalent *6	t	71	.62	81.	43		
	T	Weight	kg		9.5	47			
	Total charge	CO2 equivalent *6			48	98.14			
Net weight			kg (lbs)		(521)	279 (
Heat exchang	ner		51.7		, ,	fin & aluminium tube	,		
Defrosting m						sed refrigerant cycle, Hot gas)			
_ 0.1.00tillig [[]					Auto donost mode (Hever	sa sangorant of olo, Hot gao,			

Unit Coverter: BTU/h=kW×3,412, cfm=m3/min×35.31 and lbs=kg/0.4536 (Please note these figures are subject to rounding variation)

- 1. Nominal cooling conditions (subject to JIS B8615-2) 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. 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.)
- 3. -5°CD.B. (23°FD.B.)/-6°CW.B. (21°FW.B.) to 21°CD.B. (70°FD.B.)/15.5°CW.B. (60°FW.B.) with cooling/heating mixed operation.
- 4. Cooling mode/Heating mode
- 5. External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH20, 6.1 mmH20, 8.2mmH20). Consult your dealer about the specification when setting External static pressure option.
- 6. This table is based on Regulation (EU) No517/2014.
- * Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.
- * Due to continuing improvement, above specifications may be subject to change without notice.



Model				PURY-EP400YNW-A (-BS)	PURY-EP450YNW-A (-BS)	PURY-EP500YNW-A (-BS)	
Power source	e				3-phase 4-wire 380-400-415 V 50/60 Hz		
	0 11 01	1) *4	kW	45.0	50.0	56.0	
	Capacity (Nomin	ai) " i	BTU / h	153,500	170,600	191,100	
	Power input		kW	13.88	16.83	21.22	
Cooling	Current input		A	23.4-22.2-21.4	28.4-26.9-26.0	35.8-34.0-32.8	
	EER		kW / kW	3.24	2.97	2.63	
	T D *0	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)	
	Temp. Range *3	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)	
	0 11 01 1		kW	50.0	56.0	63.0	
	Capacity (Nomin	ai) ^2	BTU / h	170,600	191,100	215,000	
	Power input		kW	14.12	16.86	21.67	
Heating	Current input		A	23.8-22.6-21.8	28.4-27.0-26.0	36.5-34.7-33.4	
3	COP		kW / kW	3.54	3.32	2.90	
		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)	
	Temp. range *3	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)	
		Total capacity		50~150% of outdoor unit capacity	50~150% of outdoor unit capacity	50~150% of outdoor unit capacity	
Indoor unit c	door unit connectable Model / Quantii und pressure level (measured in anechoic roon			WP10~WP125/2~50	WP10~WP125/2~50	WP10~WP125/2~50	
Sound press	ure level (measured		dB <a>	65/69	65.5/70	63.5/64.5	
	ound power level (measured in anechoic room) *		dB <a>	83/88	83/89	82/84	
'	High pressi		mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	
Refrigerant p	piping diameter	Low pressure	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	
	Type x Quantity Propeller fan x 2		1 . /	Propeller fan x 2	Propeller fan x 2		
	ijpo n dadiini	Air flow rate		315	315	295	
	Air flow rate			5.250	5.250	4,917	
Fan	7 III IIOW IUIO		L/s cfm	11.123	11.123	10.416	
1 411	Control, Driving mechanism		OIIII	Inverter-control, direct-driven by motor	Inverter-control, direct-driven by motor	Inverter-control, direct-driven by motor	
	Motor output			0.46 x 2	0.46 x 2	0.92 x 2	
	External static pr	PSS *5	IVAA	0.40 x 2 0 Pa (0 mmH20)	0.40 X 2 0 Pa (0 mmH20)	0.32 x 2 0 Pa (0 mmH20)	
	Type	000. 0		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	
	Starting method			Inverter	Inverter	Inverter	
Compressor	Motor output		kW	10.9	12.4	13.0	
	Case heater		kW	- (- V)	- (- V)	- (- V)	
External finis			VAA	\ /	i steel sheets (+powder coating for -BS type) <munsel< td=""><td>()</td></munsel<>	()	
LATOTHUI IIIIC)11		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 dim	ension HxWxD			73-3/16 (70-13/16 without legs) x	73-3/16 (70-13/16 without leas) 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	68-15/16 x 29-3/16	
	High pressure pr	otection		High	pressure sensor, High pressure switch at 4.15 MPa (601	psi)	
Protection	Inverter circuit (0	OMP./FAN)			Over-heat protection, Over-current protection		
devices	Compressor			-	-	-	
	Fan motor			-	-	-	
	Type/GWP			R410A / 2088	R410A / 2088	R410A / 2088	
	Faston, shared	Weight	kg	8.0	10.8	10.8	
	Factory charged	CO2 equivalent *6	t	16.70	22.55	22.55	
Refrigerant	Max additional	Weight	kg	39.0	44.7	45.2	
	charge	CO2 equivalent *6	t	81.43	93.33	94.38	
	Total abases	Weight	kg	47.0	55.5	56.0	
	Total charge	CO2 equivalent *6	t	98.14 115.88		116.93	
Net weight			kg (lbs)	282 (622)	306 (675)	345 (761)	
Heat exchang	ger			, ,	Salt-resistant cross fin & copper tube	, ,	
Defrosting m	0				Auto-defrost mode (reversed refrigerant cycle, hot gas)		
_ 2 0 July 11					acirout modo (rororoda romgoram oyoro, not yas)		

 $\label{lower} \textbf{Unit Coverter: BTU/h} = \textbf{kW} \times 3,412, \text{ cfm} = \textbf{m3/min} \times 35.31 \text{ and lbs} = \textbf{kg/0.4536} \text{ (Please note these figures are subject to rounding variation)}$

- 1. Nominal cooling conditions (subject to JIS B8615-2) 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. 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.)
- 3. -5°CD.B. (23°FD.B.)/-6°CW.B. (21°FW.B.) to 21°CD.B. (70°FD.B.)/15.5°CW.B. (60°FW.B.) with cooling/heating mixed operation.
- 4. Cooling mode/Heating mode
- 5. External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH20, 6.1 mmH20, 8.2mmH20). Consult your dealer about the specification when setting External static pressure option.
- 6. This table is based on Regulation (EU) No517/2014.
- * Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.
- $^{\star}\,$ Due to continuing improvement, above specifications may be subject to change without notice.

Water Source Unit



Model				PQRY-P200YLM-A1	PQRY-P250YLM-A1
Power source	e			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
	One seiter (Normin	-11. *4	kW	22.4	28.0
	Capacity (Nomin	al) ^1	BTU / h	76,400	95,500
	Power input		kW	3.97	5.44
Cooling	Current input		A	6.7-6.3-6.1	9.1-8.7-8.4
	EER		kW / kW	5.64	5.14
	Town Dones *0	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
	Temp. Range *3	Outdoor	D.B.	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)
	Canacity (Namin	al\ *0	kW	25.0	31.5
	Capacity (Nomin	pacity (Nominal) *2		85,300	107,500
	Power input		kW	4.04	5.41
Heating	Current input		A	6.8-6.4-6.2	9.1-8.6-8.3
-	COP		kW / kW	6.18	5.82
	Tama *^	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
	Temp. range *3	Outdoor	W.B.	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)
ndans	annantahl:	Total capacity		50~150% of heat source unit capacity	50~150% of heat source unit capacity
ndoor unit c	onnectable	Model / Quantity		WP10~WP125/1~30	WP10~WP125/1~37
Sound pressi	ure level (measured	in anechoic room)	dB <a>	46	48
		High pressure	mm (in.)	15.88 (5/8) Brazed	19.05 (3/4) Brazed
Retrigerant p	iping diameter	Low pressure	mm (in.)	19.05 (3/4) Brazed	22.2 (7/8) Brazed
		m3/min Water flow rate L/min cfm		5.76	5.76
	Water flow rate			96	96
Circulating Water				3.4	3.4
Natel	Pressure Drop	Pressure Drop		24	24
	Operating Volum	perating Volume Range		3.0 ~ 7.2	3.0 ~ 7.2
	Type			Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
n	Starting method			Inverter	Inverter
Compressor	Motor output		kW	4.8	6.2
	Case heater		kW	-	-
External finis	sh			Galvanized steel sheets	Galvanized steel sheets
Tukawa I dina	anaian HulliuD		mm	1,100 x 880 x 550	1,100 x 880 x 550
external dimi	ension HxWxD		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
	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)
Protection devices	Inverter circuit (C	OMP.)		Over-heat protection, Over-current protection	Over-heat protection, over-current protection
TEALCE2	Compressor			Over-heat protection	Over-heat protection
	Type x Original C	harge		R410A/2088	R410A/2088
Dofrigation	Factory charged		kg	5.0	5.0
Refrigerant	Maximum addition	Maximum additional charge		27.0	32.0
Total charge			kg	32.0	37.0
Net weight			kg (lbs)	170 (375)	170 (375)
	Туре			plate type	plate type
Heat	Water volume in	plate	L	5.0	5.0
exchanger	Water pressure m		MPa	2.0	2.0

- Notes:

 1. Nominal cooling conditions (subject to JIS B8615-2). Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Water temperature: 30°C (86°F). Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0m (0ft).

 2. Nominal heating conditions (subject to JIS B8615-2). Indoor: 20°CD.B. (68°FD.B.), Water temperature: 20°C (68°FD.B.). Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0m (0ft).

 3. -5°CD.B. (23°FD.B.)/-6°CW.B. (21°FW.B.) to 21°CD.B. (70°FD.B.)/15.5°CW.B. (60°FW.B.) with cooling/heating mixed operation.

 $^{^{\}star}\,$ Due to continuing improvement, above specifications may be subject to change without notice.

Water Source Unit





Model				PQRY-P30	DYLM-A1	PQRY-P38	50YLM-A1	
Number of H	BC Controller			Single HBC	Double HBC	Single HBC	Double HBC	
Power source	9			3-phase 4-wire 380-4	00-415 V 50/60 Hz	3-phase 4-wire 380-	400-415 V 50/60 Hz	
		0.44	kW	33.5		40.0		
	Capacity (Nomin	ial) *1	BTU / h	114,30	00	136,	500	
	Power input		kW	7.55	6.71	9.98	8.72	
Cooling	Current input	t A		12.7-12.1-11.6	11.3-10.7-10.3	16.8-16.0-15.4	14.7-13.9-13.4	
	EER		kW / kW	4.43	4.99	4.00	4.58	
	T D *0	Indoor	W.B.	15.0~24.0°C ((59~75°F)	15.0~24.0°C	(59~75°F)	
	Temp. Range *3	Outdoor	D.B.	10.0~45.0°C (50~113°F)	10.0~45.0°C	(50~113°F)	
	On a situ (No sein			37.5		45.	0	
	Capacity (Nomin	pacity (Nominal) *2 RW BTU / h		128,0	00	153,	500	
	Power input		kW	7.13	6.79	8.87	8.25	
Heating Current input		A	12.0-11.4-11.0	11.4-10.8-10.4	14.9-14.2-13.7	13.9-13.2-12.7		
-	COP		kW / kW	5.25	5.52	5.07	5.45	
	Tamp sanar *0	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C	(59~81°F)	
	Temp. range *3	Outdoor	W.B.	10.0~45.0°C (50~113°F)	10.0~45.0°C	(50~113°F)	
La da carresta a		Total capacity		50~150% of heat sou	urce unit capacity	50~150% of heat so	ource unit capacity	
Indoor unit connectable Model / Quantity			WP10~WP1	25/2~45	WP10~WP125/2~50			
Sound pressi	Sound pressure level (measured in anechoic room) dB <a>		dB <a>	54		52		
Defricasent n	ining diameter	High pressure	mm (in.)	19.05 (3/4)	Brazed	22.2 (7/8) Brazed	
neiligeralit p	iping diameter	Low pressure	mm (in.)	22.2 (7/8)	Brazed	28.58 (1-1/	(8) Brazed	
			m3/min	5.76		7.2	0	
0: 1.:	Water flow rate	Water flow rate		96		120		
Circulating Water				3.4		4.5	2	
Water	Pressure Drop		kPa	24		44		
	Operating Volum	e Range	m3/h	3.0 ~	7.2	4.5 ~ 11.6		
	Type			Inverter scroll herm	etic compressor	Inverter scroll hermetic compressor		
Compressor	Starting method			Invert	er	Inve	rter	
Compressor	Motor output		kW	7.7		9.	5	
	Case heater		kW	-		-		
External finis	h			Galvanized st	eel sheets	Galvanized s	teel sheets	
Evtornal dimi	ension HxWxD		mm	1,100 x 880	0 x 550	1,450 x 8	B0 x 550	
LAIGIIIAI UIIII	CHSIOH HAWAD		in.	43-5/16 x 34-11/	16 x 21-11/16	57-1/8 x 34-11/16	x 21-11/16-11/16	
Protection	High pressure pr			High pressure sensor, High pressu	re switch at 4.15 MPa (601 psi)	High pressure sensor, high press	ure switch at 4.15 MPa (601 psi)	
devices	Inverter circuit (COMP.)		Over-heat protection, Ov	er-current protection	Over-heat protection, o	ver-current protection	
4641000	Compressor			Over-heat pr	otection	Over-heat p	protection	
	Type x Original C	harge		R410A/2	2088	R410A,	/2088	
Refrigerant	Factory charged		kg	5.0		6.1		
nonyolani	Maximum additi	onal charge	kg	33.0		52.	0	
Total charge kg		kg	38.0		58.	0		
Net weight			kg (lbs)	170 (3	75)	214 (472)	
Lloot	Туре			plate t	уре	plate	type	
Heat exchanger	Water volume in	plate	L	5.0		5.1	0	
onollaliyol	Water pressure r	nax	MPa	2.0		2.0		

 $\label{lower} \begin{tabular}{ll} \textbf{Unit Coverter: BTU/h} = & \textbf{kW} \times 3,412, \ \textbf{cfm} = & \textbf{m}3/\textbf{min} \times 35.31 \ \ \textbf{and lbs} = & \textbf{kg/0.4536} \ \ \textbf{(Please note these figures are subject to rounding variation)} \\ \end{tabular}$

- 1. Nominal cooling conditions (subject to JIS B8615-2). Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Water temperature: 30°C (86°F). Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0m (0ft). 2. Nominal heating conditions (subject to JIS B8615-2). Indoor: 20°CD.B. (68°FD.B.), Water temperature: 20°C (68°FD.B.). Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0m (0ft). 3. -5°CD.B. (23°FD.B.)/-6°CW.B. (21°FW.B.) to 21°CD.B. (70°FD.B.)/15.5°CW.B. (60°FW.B.) with cooling/heating mixed operation.

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

Water Source Unit





Model				PQRY-P400YLM-A1	PQRY-P450YLM-A1	PQRY-P500YLM-A1
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
			kW	45.0	50.0	56.0
	Capacity (Nomin	al) *1	BTU / h	153,500	170.600	191,100
	Power input	Power innut		10.05	12.05	14.58
Cooling	Current input		kW A	16.9-16.1-15.5 20.3-19.3-18.6		24.6-23.3-22.5
	EER			4.47		3.84
		Indoor	kW / kW 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)
	Temp. Range *3	Outdoor	D.B.	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)
			kW	50.0	56.0	63.0
	Capacity (Nomin	al) *2	BTU / h	170.600	191.100	215,000
	Power input		kW	9.45	11.11	13.07
leating	Current input		A	15.9-15.1-14.6	18.7-17.8-17.1	22.0-20.9-20.2
icallily	COP		kW / kW	5.29	5.04	4.82
	CUP	Indoor	D.B.			
	Temp. range *3			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.	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)
ndoor unit co	onnectable	Total capacity		50~150% of heat source unit capacity	50~150% of heat source unit capacity	50~150% of heat source unit capacity
		Model / Quantity		WP10~WP125/2~50	WP10~WP125/1~37	WP10~WP125/2~50
Sound pressu	ıre level (measured	in anechoic room)	dB <a>	52	54	54
efrinerant n	iping diameter	High pressure	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed
omyoram p	iping diameter	Low pressure	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
			m3/min	7.20	7.20	7.20
	Water flow rate L		L/min	120	120	120
Circulating Vater				4.2	4.2	4.2
Valei	Pressure Drop		kPa	44	44	44
	Operating Volum	Operating Volume Range n		4.5 ~ 11.6	4.5 ~ 11.6	4.5 ~ 11.6
	Type	3		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method			Inverter	Inverter	Inverter
Compressor	Motor output		kW	10.7	11.6	13.0
	Case heater		kW	-	-	-
xternal finis			IVVV	Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets
Attiliai IIIIIo	11		mm	1.450 x 880 x 550	1.450 x 880 x 550	1.450 x 880 x 550
xternal dime	ension HxWxD		in.	,	,	,
	High pressure pr	otection	111.	57-1/8 x 34-11/16 x 21-11/16 High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	57-1/8 x 34-11/16 x 21-11/16 High pressure sensor, high pressure switch at 4.15 MPa (601 osi)	57-1/8 x 34-11/16 x 21-11/16 High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
rotection levices	Inverter circuit (C	:OMP)		Over-heat protection, Over-current protection	Over-heat protection, over-current protection	Over-heat protection, Over-current protection
evice2	Compressor	JOIVII .J		Over-heat protection Over-heat protection	Over-heat protection	Over-heat protection
	Type x Original C	horao				
	Factory charged	narye	ka	R410A/2088	R410A/2088	R410A/2088
efrigerant	, ,		kg	6.0	6.0	6.0
	Maximum additio	mai charge	kg	52.0	53.0	55.0
	Total charge		kg	58.0	59.0	61.0
let weight	-		kg (lbs)	214 (472)	214 (472)	214 (472)
leat	Туре			plate type	plate type	plate type
xchanger	Water volume in		L	5.0	5.0	5.0
	Water pressure max		MPa	2.0	2.0	2.0

- 1. Nominal cooling conditions (subject to JIS B8615-2). Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Water temperature: 30°C (86°F). Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0m (0ft). 2. Nominal heating conditions (subject to JIS B8615-2). Indoor: 20°CD.B. (68°FD.B.), Water temperature: 20°C (68°FD.B.). Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0m (0ft). 3. -5°CD.B. (23°FD.B.)/-6°CW.B. (21°FW.B.) to 21°CD.B. (70°FD.B.)/15.5°CW.B. (60°FW.B.) with cooling/heating mixed operation.
- $^{\star}\,$ Due to continuing improvement, above specifications may be subject to change without notice.

HBC Controller





Model				CMB-WM	108V-AA	CMB-WM	1016V-AA	
Number of Bra	anch			8		16		
Power Source	Dawas Causas			1-phase 220	-230-240 V	1-phase 220	-230-240 V	
rower source	;			50 Hz	60 Hz	50 Hz	60 Hz	
Power Input		Cooling	kW	0.45/0.46/0.47	0.45/0.46/0.47	0.45/0.46/0.47	0.45/0.46/0.47	
(220/230/240	0)	Heating	kW	0.45/0.46/0.47	0.45/0.46/0.47	0.45/0.46/0.47	0.45/0.46/0.47	
Current Input		Cooling	A	2.89/2.83/2.79	2.89/2.83/2.79	2.89/2.83/2.79	2.89/2.83/2.79	
(220/230/240	0)	Heating	A	2.89/2.83/2.79	2.89/2.83/2.79	2.89/2.83/2.79	2.89/2.83/2.79	
Sound pressu	ire level (measured	in anechoic room)	dBA	41		4		
Applicable Te	mperature Range o	f Installation Site	°C (D.B.)	0~	32	0~	32	
External Finis	h			Galvanised steel plate pre-coated galvanised sh		Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)		
Connectable (Outdoor/Heat Sour	ce Unit		PURY-	P200~500YNW-A1(-BS)/PURY-EP200-	~500YNW-A1(-BS)-PQRY-P200~500-YLI	N-A1	
Indoor Unit Ca	apacity Connectabl	e to 1 Branch		Model P80 or smaller (Use of 2 branches when the total u		Model P80 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds P81)		
Evtornal Nime	ension H x W x D		mm	300 x 1,520 x 630		300 x 1,800 x 630		
LAIGIIIAI DIIIIG	21121011 11 V M V D		in.	11-13/16 x 59-7/8 x 24-13/16		11-13/16 x 70-7/8 x 24-13/16		
Refrigerant Piping	To Outdoor Unit	High Press. Pipe (0.D.)	mm (in.)	15.88 (5/8	B) Brazed	15.88 (5/8) Brazed		
Diameter	10 Outdoor Offic	Low Press. Pipe (0.D.)	mm (in.)	19.05 (3/4) Brazed	19.05 (3/4	1) Brazed	
Water Piping	To Indoor Unit	HInlet Pipe (I.D.)	mm (in.)	20 (3	3/4)	20 (3	3/4)	
Diameter	TO IIIUUUI VIIII	Outlet Pipe (I.D.)	mm (in.)	20 (3	3/4)	20 (3	3/4)	
Field Drain Pi	pe Size		mm (in.)	0.D. 32	(1-1/4)	0.D. 32	(1-1/4)	
Net Weight			kg (lbs)	86 (190) [96 (2	12) with water]	98 (217) [111 (2	217) [111 (245) with water]	
Standard Atta	chment Accesso	ry		Drain Connection pipe (with f	lexible hose and insulation)	Drain Connection pipe (with	flexible hose and insulation)	

- * Works not included: Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items are not specified in this specifications.
- * The equipment is for R410A refrigerant.
- * Install this product in a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbours. (For use in quiet environments with low background noise, position the HBC CONTROLLER at least 5m away from any indoor units.)
- * Please install the HBC controller in a place where noise will not be an issue.
- * Please attach an expansion vessel (field supply).
- * Please use copper or plastic pipes for the water circuit. Do not use steel or stainless steel pipework. Furthermore, when using copper pipework, use a non-oxidative brazing method. Oxidation of the pipework will reduce the pump life.
- * When brazing the pipes, be sure to braze after covering a wet cloth to the insulation pipes of the units in order to prevent it from burning and shrinking by heat.
- * Please install an air purge valve where air will gather in the water circuit.
- * Please install a pressure reducing valve and a strainer on the water supply to the HBC controller.
- * Please refer to the databook or the installation manual for the specified water quality.
- * This unit is not designed for outside installations.
- * Please always make water circulate or pull out the circulation water completely when not using it. (Please do not use it as a drinking water.)
- * Please do not use ground water and well water
- * When installing the HBC unit in an environment which may drop below 0 °C, please add antifreeze to the circulating water. (Refer to the data book and the installation manual).
- * When installing new units, moving the existing units, or changing the layout of the room, ensure that installation restrictions are observed. For detail, refer to the section in the Databook on installation restrictions.

HBC Controller







Model				CMB-WM	I108V-AB	СМВ-WМ	1016V-AB
Number of Bra	anch			8		16	
Power Source				1-phase 220	-230-240 V	1-phase 220	-230-240 V
I OWEI SOUICE				50 Hz	60 Hz	50 Hz	60 Hz
Power Input		Cooling	kW	0.01/0.01/0.01	0.01/0.01/0.01	0.01/0.01/0.01	0.01/0.01/0.01
(220/230/240	0)	Heating	kW	0.01/0.01/0.01	0.01/0.01/0.01	0.01/0.01/0.01	0.01/0.01/0.01
Current Input		Cooling	A	0.05/0.05/0.05	0.05/0.05/0.05	0.05/0.05/0.05	0.05/0.05/0.05
(220/230/240	0)	Heating	A	0.05/0.05/0.05	0.05/0.05/0.05	0.05/0.05/0.05	0.05/0.05/0.05
Sound pressu	re level (measure	d in anechoic room)	dBA	-		-	
Applicable Te	mperature Range	of Installation Site	°C (D.B.)	0~	32	0~32	
External Finis	External Finish			Galvanised steel plate pre-coated galvanised sh		Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)	
Connectable	Outdoor Unit			-	•	-	
Indoor Unit C	apacity Connectat	le to 1 Branch		Model P80 or smaller (Use optional join total unit capacit		Model P80 or smaller (Use optional joint pipe combining 2 branches when total unit capacity exceeds P81)	
External Dime	ension H x W x D		mm	300 x 1,5	20 x 630	300 x 1,520 x 630	
LXICIIIAI DIIII	SHPIOH H Y M Y D		in.	11-13/16 x 59-7	7/8 x 24-13/16	11-13/16 x 70-7/8 x 24-13/16	
	To Main HBC	HInlet Pipe (I.D.)	mm (in.)	20 (3	3/4)	20 (3/4)	
Water Piping	10 IVIAIII I IDG	Outlet Pipe (I.D.)	mm (in.)	20 (3	3/4)	20 (3/4)	
Diameter	To Indoor Unit	HInlet Pipe (I.D.)	mm (in.)	20 (3	3/4)	20 (3/4)
	Outlet Pipe (I.D.)		mm (in.)	20 (3	3/4)	20 (3/4)
Field Drain Pi	pe Size		mm (in.)	0.D. 32	(1-1/4)	0.D. 32	(1-1/4)
Net Weight			kg (lbs)	44 (98) [49 (109) with water]		53 (117) [62 (137) with water]	
Standard Atta	chment Accesso	nry		Drain Connection pipe (with t	flexible hose and insulation)	Drain Connection pipe (with	flexible hose and insulation)

- * Works not included: Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items are not specified in this specifications.
- * The equipment is for water.
- * Install this product in a location where noise emitted by the unit will not disturb the neighbours. (For use in quiet environments with low background noise, position the Sub HBC CONTROLLER at least 5m away from any indoor units.)
- * Please install the Sub HBC controller in a place where noise will not be an issue.
- * Please attach an expansion vessel (field supply).
- * Please use copper or plastic pipes for the water circuit. Do not use steel or stainless steel pipework. Furthermore, when using copper pipework, use a non-oxidative brazing method. Oxidation of the pipework will reduce the pump life.
- * When brazing the pipes, be sure to braze after covering a wet cloth to the insulation pipes of the units in order to prevent it from burning and shrinking by heat.
- $\ensuremath{^{\star}}$ Please install an air purge valve where air will gather in the water circuit.
- * Please refer to the databook or the installation manual for the specified water quality.
- * This unit is not designed for outside installations.
- * Please always make water circulate or pull out the circulation water completely when not using it. (Please do not use it as a drinking water.)
- * Please do not use ground water and well water.
- * When installing the Sub HBC unit in an environment which may drop below 0 °C, please add antifreeze to the circulating water. (Refer to the data book and the installation manual).
- $^{\star}\text{Main HBC Controller}$ is necessary with sub HBC.

Slim Ceiling Concealed



Model				PEFY-WP10VMS1-E	PEFY-WP15VMS1-E
Power soul	ce			1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz
			kW	1.2	1.7
	Capacity (Nomina	l) *1	kcal/h	1,000	1,500
Cooling				4,100	5,800
	Power input *2		kW	0.03	0.05
	Current input*2		A	0.21	0.44
			kW	1.4	1.9
	Capacity (Nomina	1) *3	kcal/h	1,200	1,600
Heating			BTU/h	4,800	6,500
	Power input *2		kW	0.03	0.03
	Current input *2	input *2		0.21	0.33
External fir	nish			Galvanised steel plate	Galvanised steel plate
Fortenes I all	and the Mark		mm	200x790x700	200x790x700
External dimension HxWxD			in.	7-7/8 x 31-1/8 x 27-9/16	7-7/8 x 31-1/8 x 27-9/16
let Weight			kg (lbs)	19 (42)	19 (42)
Heat Exchanger		Туре		Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)
TEAL EXCITATION	iliger	Water Volume	L	0.4	0.7
	Type × Quantity			Sirocco fan x 2	Sirocco fan x 2
	Futomol Ctotic Dr	External Static Pressure *4		<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>
	External Static Fit	essure 4	mmH ₂ 0	<0.5> - 1.5 - <3.6> - <5.1>	<0.5> - 1.5 - <3.6> - <5.1>
	Motor Type			DC Motor	DC Motor
an	Motor Output		kW	0.096	0.096
	Driving Mechanis	m		Direct-driven by motor	Direct-driven by motor
			m3/min	4.0 - 4.5 - 5.0	5.0 - 6.0 - 7.0
	Airflow Rate	(Low Mid High)	L/s	67 - 75 - 83	83 - 100 - 117
			cf/m	141 - 159 - 177	177 - 212 - 247
Sound pres in anechoi	ssure level (measured c room)*2	(Low Mid High)	dB <a>	20-23-25	22-24-28
nsulation	Vlaterial			EPS, Polythene foam, Urethane foam	EPS, Polythene foam, Urethane foam
Air Filter				PP Honeycomb fabric	PP Honeycomb fabric
Protection	Device			Fuse	Fuse
Connectab	le Outdoor Unit/HBC C	ontroller		Hybrid City Multi CMB-WP-V-GA1, CMB-WP	-V-GB1, CMB-WM-V-AA, CMB-WM-V-AB
Votor Dini	ng Diameter *5 *6	Inlet	in.	Rc 3/4 screw	Rc 3/4 screw
vatet ripii	iy Diallietel 5 0	Outlet	in.	Rc 3/4 screw	Rc 3/4 screw
ield Drain	Pipe Size		mm (in.)	0.D.32 (1-1/4)	0.D.32 (1-1/4)
Standard A	ttachment Accessory	y		Insulation pipe for water pipe, Washer, Drain hose, Tie Band	Insulation pipe for water pipe, Washer, Drain hose, Tie Band
Optional pa	art Control Box Repla	ce Kit		PAC-KE70HS-E	PAC-KE70HS-E

- 1. Nominal cooling conditions Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Outdoor: 35°CD.B./19°CW.B. (95°FD.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0m (0ft). 2. The value 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: 0m (0ft).

- 4. The factory setting for external pressure is shown without < >. Refer to "Fan characteristics curves", according to the external pressure, in DATA BOOK for the usable range of air flow rate.
- 5. Be sure to install a valve on the water outlet,
- 6. Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.
- 7. Please group units that operate on 1 branch.

Slim Ceiling Concealed



Model				PEFY-WP20VMS1-E	PEFY-WP25VMS1-E
Power sour	ce			1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz
			kW	2.2	2.8
	Capacity (Nomina	1) *1	kcal/h	1,900	2,400
Cooling			BTU/h	7,500	9,600
	Power input *2	Power input *2		0.051	0.06
	Current input*2		A	0.49	0.51
			kW	2.5	3.2
	Capacity (Nomina	1) *3	kcal/h	2,200	2,800
Heating			BTU/h	8,500	10,900
	Power input *2		kW	0.031	0.04
	Current input *2		A	0.38	0.4
xternal fir	ish			Galvanised steel plate	Galvanised steel plate
	mension HxWxD		mm	200x790x700	200x790x700
external of	IIIEIISIOII HXWXD		in.	7-7/8 x 31-1/8 x 27-9/16	7-7/8 x 31-1/8 x 27-9/16
Vet Weight			kg (lbs)	20 (45)	20 (45)
Heat Exchanger Type Water Volume		Туре		Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)
		Water Volume	L	0.9	0.9
	Type × Quantity			Sirocco fan x 2	Sirocco fan x 2
	Futured Otalia Dec	***	Pa	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>
	External Static Pre	External Static Pressure *4		<0.5> - 1.5 - <3.6> - <5.1>	<0.5> - 1.5 - <3.6> - <5.1>
	Motor Type	Motor Type		DC Motor	DC Motor
an	Motor Output		kW	0.096	0.096
	Driving Mechanism	n		Direct-driven by motor	Direct-driven by motor
			m3/min	5.5 - 6.5 - 8.0	5.5 - 7.0 - 9.0
	Airflow Rate	(Low Mid High)	L/s	92 - 108 - 133	92 - 117 - 150
			cf/m	194 - 230 - 282	194 - 247 - 318
Sound pres n anechoid	ssure level (measured c room)*2	(Low Mid High)	dB <a>	23-25-29	23-26-30
nsulation l	Material			EPS, Polythene foam, Urethane foam	EPS, Polythene foam, Urethane foam
Air Filter				PP Honeycomb fabric	PP Honeycomb fabric
Protection	Device			Fuse	Fuse
Connectab	le Outdoor Unit/HBC C	ontroller		Hybrid City Multi CMB-WP-V-GA1, CMB-WI	P-V-GB1, CMB-WM-V-AA, CMB-WM-V-AB
Vator Din:	na Diamotor *F *C	Inlet	in.	Rc 3/4 screw	Rc 3/4 screw
vater ripir	ng Diameter *5 *6	Outlet	in.	Rc 3/4 screw	Rc 3/4 screw
ield Drain	Pipe Size		mm (in.)	0.D.32 (1-1/4)	0.D.32 (1-1/4)
Standard A	ttachment Accessory	1		Insulation pipe for water pipe, Washer, Drain hose, Tie Band	Insulation pipe for water pipe, Washer, Drain hose, Tie Band
Intional na	art Control Box Repla	ce Kit		PAC-KE70HS-E	PAC-KE70HS-E

- 1. Nominal cooling conditions Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Outdoor: 35°CD.B./19°CW.B. (95°FD.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0m (0ft). 2. The value 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: 0m (0ft).

- 4. The factory setting for external pressure is shown without < >. Refer to "Fan characteristics curves", according to the external pressure, in DATA BOOK for the usable range of air flow rate.
- $6. \ In stall\ a\ strainer\ (40\ mesh\ or\ more)\ on\ the\ pipe\ next\ to\ the\ valve\ to\ remove\ the\ foreign\ matters.$
- 7. Please group units that operate on 1 branch.

Slim Ceiling Concealed



Model				PEFY-WP32VMS1-E	PEFY-WP40VMS1-E	PEFY-WP50VMS1-E
Power sou	гсе			1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz
			kW	3.6	4.5	5.6
	Capacity (Nomin	Capacity (Nominal) *1		3,100	3,900	4,800
Cooling				12,300	15,400	19,100
	Power input *2		kW	0.071	0.090	0.090
	Current input*2		A	0.61	0.73	0.77
			kW	4.0	5.0	6.3
	Capacity (Nomin	nal) *3	kcal/h	3,400	4,300	5,400
Heating			BTU/h	13,600	17,100	21,500
	Power input *2		kW	0.051	0.070	0.070
	Current input *2		A	0.50	0.62	0.66
External fi	nish			Galvanised steel plate	Galvanised steel plate	Galvanised steel plate
Evtornal di	mension HxWxD		mm	200x990x700	200x990x700	200x1,190x700
EXTERNIAL OF	IIIEIISIOII HXWXD		in.	7-7/8 x 39 x 27-9/16	7-7/8 x 39 x 27-9/16	7-7/8 x 46-7/8 x 27-9/16
Net Weigh	t		kg (lbs)	25 (56)	25 (56)	27 (60)
Heat Excha	ngor	Туре		Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)
IGGI EXUIT	illyel	Water Volume	L	1.0	1.0	1.7
	Type \times Quantity	1		Sirocco fan x 3	Sirocco fan x 3	Sirocco fan x 4
	External Static F	Proceuro *A	Pa	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>
	LAIGIIIAI SIAIIG I	External Static Fressure 4 mmH		<0.5> - 1.5 - <3.6> - <5.1>	<0.5> - 1.5 - <3.6> - <5.1>	<0.5> - 1.5 - <3.6> - <5.1>
	Motor Type	Motor Type		DC Motor	DC Motor	DC Motor
Fan	Motor Output	Motor Output kW		0.096	0.096	0.096
	Driving Mechan	ism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
			m3/min	8.0 - 9.0 - 11.0	9.5 - 11.0 - 13.0	12.0 - 14.0 - 16.5
	Airflow Rate	(Low Mid High)	L/s	133 - 150 - 183	158 - 183 - 217	200 - 233 - 275
			cf/m	282 - 318 - 388	335 - 388 - 459	424 - 494 - 583
	ssure level (measured c room)*2	(Low Mid High)	dB <a>	28-30-33	30-32-35	30-33-36
Insulation	Material			EPS, Polythene foam, Urethane foam	EPS, Polythene foam, Urethane foam	EPS, Polythene foam, Urethane foam
Air Filter				PP Honeycomb fabric	PP Honeycomb fabric	PP Honeycomb fabric
Protection	Device			Fuse	Fuse	Fuse
Connectab	le Outdoor Unit/HBC	Controller		Hybrid City Mul	ti CMB-WP-V-GA1, CMB-WP-V-GB1, CMB-WM-V-AA,	CMB-WM-V-AB
Mater Dini	ng Diameter *5 *6	Inlet	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw
vvalei riþi	ilà niglikiki 2 0	Outlet	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw
Field Drair	Pipe Size		mm (in.)	0.D.32 (1-1/4)	0.D.32 (1-1/4)	0.D.32 (1-1/4)
Standard A	Attachment Accesso	ory		Insulation pipe for water pipe, Washer, Drain hose, Tie Band	Insulation pipe for water pipe, Washer, Drain hose, Tie Band	Insulation pipe for water pipe, Washer, Drain hose Band
Optional p	art Control Box Rep	lace Kit		PAC-KE70HS-E	PAC-KE70HS-E	PAC-KE70HS-E

 $\label{eq:converter: kcal/h=kW} \textbf{W} \times \textbf{860}, \textbf{BTU/h=kW} \times \textbf{3,412}, \textbf{cfm=m}^3/\textbf{min} \times \textbf{35.31} \ \textbf{and} \ \textbf{lbs=kg/0.4536} \ (\textbf{Please note these figures are subject to rounding variation})$

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

- 2. The value 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: 0m (0ft).

 4. The factory setting for external pressure is shown without < >. Refer to "Fan characteristics curves", according to the external pressure, in DATA BOOK for the usable range of air flow rate.
- 5. Be sure to install a valve on the water outlet,
- 6. Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.
- 7. Please group units that operate on 1 branch.



Model				PEFY-WP20VMA-E	PEFY-WP25VMA-E
Power sou	rce			1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz
			kW	2.2	2.8
	Capacity (Nomina	l) *1	kcal/h	1,900	2,400
Cooling				7,500	9,600
	Power input *2	Power input *2		0.07	0.09
	Current input*2		A	0.55	0.64
			kW	2.5	3.2
	Capacity (Nomina	I) *3	kcal/h	2,200	2,800
Heating			BTU/h	8,500	10,900
	Power input *2		kW	0.05	0.07
	Current input *2		A	0.44	0.53
External fi	nish			Galvanised steel plate	Galvanised steel plate
Eutornal d	imension HxWxD		mm	250x700x732	250x900x732
LXICIIIAI U	IIIIGII2IOII LIXWXD		in.	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 35-7/16 x 28-7/8
Net Weigh	t		kg (lbs)	21 (47)	26 (58)
Heat Exchanger Type			Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	
HEAL LAUIN	allyel	Water Volume	L	0.7	1.0
	$Type \times Quantity$	71 7		Sirocco fan x 1	Sirocco fan x 1
	External Static Dro	occuro *A	Pa	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>
	LXIEIIIdi Sidili Fit	External Static Pressure *4		<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>
	Motor Type	Motor Type		DC Motor	DC Motor
Fan	Motor Output		kW	0.085	0.085
	Driving Mechanis	m		Direct-driven by motor	Direct-driven by motor
			m3/min	7.5 - 9.0 - 10.5	10.0 - 12.0 - 14.0
	Airflow Rate	(Low Mid High)	L/s	125 - 150 - 175	167 - 200 - 233
			cf/m	265 - 318 - 371	353 - 242 - 494
	ssure level (measured c room)*2	(Low Mid High)	dB <a>	23-26-29	23-27-30
Insulation	Material			EPS, Polythene foam, Urethane foam	EPS, Polythene foam, Urethane foam
Air Filter				PP Honeycomb fabric	PP Honeycomb fabric
Protection	Device			Fuse	Fuse
Connectat	le Outdoor Unit/HBC C	ontroller		Hybrid City Multi CMB-WP-V-GA1, CMB-WI	P-V-GB1, CMB-WM-V-AA, CMB-WM-V-AB
Makas Dia:	na Diamatas *F *C	Inlet	in.	Rc 3/4 screw	Rc 3/4 screw
water MPI	ng Diameter *5 *6	Outlet	in.	Rc 3/4 screw	Rc 3/4 screw
Field Drair	Pipe Size		mm (in.)	0.D.32 (1-1/4)	0.D.32 (1-1/4)
Standard /	Attachment Accessory	J .		Insulation pipe for water pipe, Washer, Drain hose, Tie Band	Insulation pipe for water pipe, Washer, Drain hose, Tie Band
Ontional n	art Control Box Repla	ce Kit		PAC-KE91TB-E	PAC-KE91TB-E

 $\label{lower lower low$

- 1. Nominal cooling conditions Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Outdoor: 35°CD.B./19°CW.B. (95°FD.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0m (0ft). 2. The value 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: 0m (0ft).

- 4. The factory setting for external pressure is shown without < >. Refer to "Fan characteristics curves", according to the external pressure, in DATA BOOK for the usable range of air flow rate.
- 6. Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters. 7. Please group units that operate on 1 branch.



Model				PEFY-WP32VMA-E	PEFY-WP40VMA-E	PEFY-WP50VMA-E	
Power source				1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz	
			kW	3.6	4.5	5.6	
C	Capacity (Nomina	apacity (Nominal) *1		3,100	3,900	4,800	
Cooling			BTU/h	12,300	15,400	19,100	
P	Power input *2		kW	0.11	0.14	0.14	
C	Current input*2		A	0.74	1.15	1.15	
			kW	4.0	5.0	6.3	
C	Capacity (Nomina	ıl) *3	kcal/h	3,400	4,300	5,400	
Heating			BTU/h	13,600	17,100	21,500	
P	Power input *2		kW	0.09	0.12	0.12	
C	Current input *2		A	0.63	1.04	1.04	
External finish				Galvanised steel plate	Galvanised steel plate	Galvanised steel plate	
Futawal dimana	ina HulliuD		mm	250x900x732	250x1,100x732	250x1,100x732	
External dimensi	IOII HXWXD		in.	9-7/8 x 35-7/16 x 28-7/8	9-7/8 x 42-5/16 x 28-7/8	9-7/8 x 42-5/16 x 28-7/8	
Net Weight			kg (lbs)	26 (58)	31 (69)	31 (69)	
Unat Evahangar		Туре		Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	
neat excitatiyet	Heat Exchanger Water Volume		L	1.0	1.8	1.8	
T	Type × Quantity			Sirocco fan x 1	Sirocco fan x 2	Sirocco fan x 2	
	Tytornal Ctatio Dr	000110 *4	Pa	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	
	External Static Pressure *4		mmH ₂ 0	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	
N.	Motor Type			DC Motor	DC Motor	DC Motor	
Fan N	Motor Output kW		kW	0.085	0.121	0.121	
	Oriving Mechanis	m		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	
			m3/min	12.0 - 14.5 - 17.0	14.5 - 18.0 - 21.0	14.5 - 18.0 - 21.0	
A	Airflow Rate	(Low Mid High)	L/s	200 - 242 - 283	242 - 300 - 350	242 - 300 - 350	
			cf/m	424 - 512 - 600	512 - 636 - 742	512 - 636 - 742	
Sound pressure I in anechoic room		(Low Mid High)	dB <a>	25-29-32	26-29-34	26-29-34	
Insulation Materi	ial			EPS, Polythene foam, Urethane foam	EPS, Polythene foam, Urethane foam	EPS, Polythene foam, Urethane foam	
Air Filter				PP Honeycomb fabric	PP Honeycomb fabric	PP Honeycomb fabric	
Protection Devic	e			Fuse	Fuse	Fuse	
Connectable Out	tdoor Unit/HBC C	ontroller		Hybrid City Mul	Iti CMB-WP-V-GA1, CMB-WP-V-GB1, CMB-WM-V-AA,	CMB-WM-V-AB	
Mater Dining Dia	2 7 × 2 × c	Inlet	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw	
Water Piping Dia	mierel o o	Outlet	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw	
Field Drain Pipe	Size		mm (in.)	0.D.32 (1-1/4)	0.D.32 (1-1/4)	0.D.32 (1-1/4)	
Standard Attachr	ment Accessor	у		Insulation pipe for water pipe, Washer, Drain hose, Tie Band	Insulation pipe for water pipe, Washer, Drain hose, Tie Band	Insulation pipe for water pipe, Washer, Drain hose, Ti Band	
Optional part C	Control Box Repla	ice Kit		PAC-KE92TB-E	PAC-KE93TB-E	PAC-KE93TB-E	
1-11-01		DTII/6 LW. 0 44	0 0600 001	·/min×35.31 and lbs=kg/0.4536 (Please note these figu	una ara arbinat ta varradina revistian)		

 $Unit\ Converter:\ kcal/h=kW\times 860,\ BTU/h=kW\times 3,412,\ cfm=m^3/min\times 35.31\ and\ lbs=kg/0.4536\ (Please\ note\ these\ figures\ are\ subject\ to\ rounding\ variation)$

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

- 2. The value 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: 0m (0ft).

 4. The factory setting for external pressure is shown without < >. Refer to "Fan characteristics curves", according to the external pressure, in DATA BOOK for the usable range of air flow rate.
- 5. Be sure to install a valve on the water outlet,
- 6. Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.
- 7. Please group units that operate on 1 branch.



Model				PEFY-WP63VMA-E	PEFY-WP71VMA-E	PEFY-WP80VMA-E
Power sou	rce			1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz
			kW	7.1	8.0	9.0
	Capacity (Nomin	Capacity (Nominal) *1		6,100	6,900	7,700
Cooling			BTU/h	24,200	27,300	30,700
	Power input *2		kW	0.14	0.24	0.24
	Current input*2		A	1.15	1.47	1.47
			kW	8.0	9.0	10.0
	Capacity (Nomin	al) *3	kcal/h	6,900	7,700	8,600
Heating			BTU/h	27,300	30,700	34,100
	Power input *2		kW	0.12	0.22	0.22
	Current input *2		A	1.04	1.36	1.36
External fii	nish			Galvanised steel plate	Galvanised steel plate	Galvanised steel plate
Eutornal di	mension HxWxD		mm	250x1,100x732	250x1,400x732	250x1,400x732
EXTELLIGI OF	IIIGIISIOII UXWXD		in.	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
Net Weigh	t		kg (lbs)	31 (69)	40 (89)	40 (89)
Heat Exchanger Type			Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	
HEAL EXCIT	iliyei	Water Volume	L	2.0	2.6	2.6
	Type × Quantity			Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2
	External Static D	External Static Pressure *4 Pa mmH ₂		<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>
	LXICIIIAI SIAIIC FI			<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>
	Motor Type	Motor Type		DC Motor	DC Motor	DC Motor
Fan	Motor Output		kW	0.121	0.244	0.244
	Driving Mechanis	sm		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
			m3/min	14.5 - 18.0 - 21.0	23.0 - 28.0 - 33.0	23.0 - 28.0 - 33.0
	Airflow Rate	(Low Mid High)	L/s	242 - 300 - 350	383 - 467 - 550	383 - 467 - 550
			cf/m	512 - 636 - 742	812 - 989 - 1,165	812 - 989 - 1,165
Sound pre in anechoi	ssure level (measured c room)*2	(Low Mid High)	dB <a>	26-29-34	28-33-37	28-33-37
Insulation	Material			EPS, Polythene foam, Urethane foam	EPS, Polythene foam, Urethane foam	EPS, Polythene foam, Urethane foam
Air Filter				PP Honeycomb fabric	PP Honeycomb fabric	PP Honeycomb fabric
Protection	Device			Fuse	Fuse	Fuse
Connectab	le Outdoor Unit/HBC (Controller		Hybrid City Mult	i CMB-WP-V-GA1, CMB-WP-V-GB1, CMB-WM-V-AA, (CMB-WM-V-AB
Notor Dini	ng Diameter *5 *6	Inlet	in.	Rc 1-1/4 screw	Rc 1-1/4 screw	Rc 1-1/4 screw
vvatet ripi	ilg Dialileter 5 b	Outlet	in.	Rc 1-1/4 screw	Rc 1-1/4 screw	Rc 1-1/4 screw
Field Drair	Pipe Size		mm (in.)	0.D.32 (1-1/4)	0.D.32 (1-1/4)	0.D.32 (1-1/4)
Standard A	ttachment Accessor	ry		Insulation pipe for water pipe, Washer, Drain hose, Tie Band	Insulation pipe for water pipe, Washer, Drain hose, Tie Band	Insulation pipe for water pipe, Washer, Drain hose, Ti Band
Optional pa	art Control Box Repl	ace Kit		PAC-KE93TB-E	PAC-KE94TB-E	PAC-KE94TB-E

 $\label{lower} \begin{tabular}{ll} Unit Converter: kcal/h=kW\times 860, BTU/h=kW\times 3,412, cfm=m^3/min\times 35.31 \ and \ lbs=kg/0.4536 \ (Please note these figures are subject to rounding variation). \end{tabular}$

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

- 2. The value 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: 0m (0ft).

 4. The factory setting for external pressure is shown without < >. Refer to "Fan characteristics curves", according to the external pressure, in DATA BOOK for the usable range of air flow rate.
- $6. \ In stall\ a\ strainer\ (40\ mesh\ or\ more)\ on\ the\ pipe\ next\ to\ the\ valve\ to\ remove\ the\ foreign\ matters.$
- 7. Please group units that operate on 1 branch.



Model				PEFY-WP100VMA-E	PEFY-WP125VMA-E
Power sou	rce			1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz
			kW	11.2	14.0
	Capacity (Nomina	l) *1	kcal/h	9,600	12,000
Cooling			BTU/h	38,200	47,800
	Power input *2		kW	0.24	0.36
	Current input*2		A	1.47	2.21
			kW	12.5	16.0
	Capacity (Nomina	I) *3	kcal/h	10,800	13,800
Heating			BTU/h	42,700	54,600
	Power input *2		kW	0.22	0.34
	Current input *2		A	1.36	2.10
External fir	nish			Galvanised steel plate	Galvanised steel plate
Evtornal di	mension HxWxD		mm	250x1,400x732	250x1,600x732
LXIGIIIdi UI	IIIGII2IOII LIXWXD		in.	9-7/8 x 55-1/8 x 28-7/8	9-7/8 x 63 x 28-7/8
Net Weight			kg (lbs)	40 (89)	42 (93)
Heat Exchanger Type			Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	
IIGAL LAGIIC	iliyei	Water Volume	L	2.6	3.0
	Type \times Quantity	Type × Quantity		Sirocco fan x 2	Sirocco fan x 2
	Evtornal Static Dro	External Static Pressure *4		<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>
	LAIGINAI SIANGI I			<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>
	Motor Type	Motor Type		DC Motor	DC Motor
Fan	Motor Output		kW	0.244	0.244
	Driving Mechanisi	m		Direct-driven by motor	Direct-driven by motor
			m3/min	23.0 - 28.0 - 33.0	29.5 - 35.5 - 42.0
	Airflow Rate	(Low Mid High)	L/s	383 - 467 - 550	492 - 592 - 700
			cf/m	812 - 989 - 1,165	1,042 - 1,254 - 1,483
Sound prea in anechoi	ssure level (measured c room)*2	(Low Mid High)	dB <a>	28-33-37	32-36-40
Insulation	Material			EPS, Polythene foam, Urethane foam	EPS, Polythene foam, Urethane foam
Air Filter				PP Honeycomb fabric	PP Honeycomb fabric
Protection	Device			Fuse	Fuse
Connectab	le Outdoor Unit/HBC C	ontroller		Hybrid City Multi CMB-WP-V-GA1, CMB-W	P-V-GB1, CMB-WM-V-AA, CMB-WM-V-AB
Nator Pini	ng Diameter *5 *6	Inlet	in.	Rc 1-1/4 screw	Rc 1-1/4 screw
rvalti r iþii	ig Diallieter J 0	Outlet	in.	Rc 1-1/4 screw	Rc 1-1/4 screw
Field Drain	Pipe Size		mm (in.)	0.D.32 (1-1/4)	O.D.32 (1-1/4)
Standard A	ttachment Accessory	1		Insulation pipe for water pipe, Washer, Drain hose, Tie Band	Insulation pipe for water pipe, Washer, Drain hose, Tie Band
Optional pa	art Control Box Repla	ce Kit		PAC-KE94TB-E	PAC-KE95TB-E

 $Unit\ Converter:\ kcal/h=kW\times 860,\ BTU/h=kW\times 3,412,\ cfm=m^3/min\times 35.31\ and\ lbs=kg/0.4536\ (Please\ note\ these\ figures\ are\ subject\ to\ rounding\ variation)$

- 1. Nominal cooling conditions Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Outdoor: 35°CD.B./19°CW.B. (95°FD.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0m (0ft). 2. The value 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: 0m (0ft).

- 4. The factory setting for external pressure is shown without < >. Refer to "Fan characteristics curves", according to the external pressure, in DATA BOOK for the usable range of air flow rate.
- 6. Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.
- 7. Please group units that operate on 1 branch.

Ceiling Cassette



ower source				PLFY-WL32VEM-E	PLFY-WL40VEM-E	PLFY-WL50VEM-E
Power source				1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz
			kW	3.6	4.5	5.6
	Capacity (Nomin	nal) *1	kcal/h	3,100	3,900	4,800
Cooling			BTU/h	12,300	15,400	19,100
	Power input	Power input		0.03	0.03	0.04
	Current input		A	0.33	0.35	0.40
			kW	4.0	5.0	6.3
	Capacity (Nomin	nal) *2	kcal/h	3.400	4.300	5.400
Heating		,	BTU/h	13,600	17,100	21,500
	Power input		kW	0.03	0.03	0.04
	Current input		A	0.27	0.29	0.34
External finis				Galvanised steel sheet	Galvanised steel sheet	Galvanised steel plate
			mm	258 x 840 x 840	258 x 840 x 840	258 x 840 x 840
:xternal dim	nension HxWxD		in.	10-3/16 x 33-3/32 x 33-3/32	10-3/16 x 33-3/32 x 33-3/32	10-3/16 x 33-3/32 x 33-3/32
Net Weight			kg (lbs)	20 (44)	20 (44)	20 (44)
		Model	3 ()	PLP-6EA	PLP-6EA	PLP-6EA
		External finish		MUNSELL (1.0Y 9.2/0.2)	MUNSELL (1.0Y 9.2/0.2)	MUNSELL (1.0Y 9.2/0.2)
Decoration P	Panel		mm	40 x 950 x 950	40 x 950 x 950	40 x 950 x 950
		Dimensions	in.	1-9/16 x 37-13/32 x 37-13/32	1-9/16 x 37-13/32 x 37-13/32	1-9/16 x 37-13/32 x 37-13/32
		Net Weight	kg (lbs)	5 (11)	5 (11)	5 (11)
		Type	3 (/	Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)
Heat Exchan	ger	Water Volume	L	1.8	1.8	1.8
	Type × Quantity			Turbo Fan x 1	Turbo Fan x 1	Turbo Fan x 1
	,,,	External Static Pressure Pa		0	0	0
	Motor Type			DC Motor	DC Motor	DC Motor
	Motor Output		kW	0.05	0.05	0.05
Fan	Driving Mechani	ism		Direct-drive	Direct-drive	Direct-driven by motor
	Diffing moonan		m3/min	14 - 15 - 16 - 17	14 - 15 - 16 - 17	14 - 16 - 18 - 20
	Airflow Rate (Lo	w-Mid1-Mid2-High)	L/s	233 - 250 - 267 - 283	233 - 250 - 267 - 283	233 - 267 - 300 - 333
			cf/m	459 - 530 - 565 - 600	459 - 530 - 565 - 600	494 - 565 - 636 - 706
Sound press	sure level (Low-Mid	1-Mid2-High)	dB <a>	26 - 27 - 29 - 30	26 - 28 - 29 - 31	27 - 29 - 31 - 33
nsulation Ma	,	azg.,	GD 1711	PS	PS	PS
Air Filter	atoriai			PP Honeycomb	PP Honeycomb	PP Honeycomb
Protection D	levice			Fuse	Fuse	Fuse
	Control Device			-	-	-
	Outdoor Unit/HBC	Controller		Hybrid City Mul	ti CMB-WP-V-GA1, CMB-WP-V-GB1, CMB-WM-V-AA,	CMB-WM-V-AB
		Inlet	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw
Nater Piping	Diameter *3 *4	Outlet	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw
ield Drain P	Pine Size		mm (in.)	0.D.32 (1-1/4)	0.D.32 (1-1/4)	0.D.32 (1-1/4)
.o.u Diailii	Decoration Pane	el *5	()	PLP-6EA/PLP-6EAE/PLP-6EAL/PLP-6EALE	PLP-6EA/PLP-6EAE/PLP-6EAL/PLP-6EALE	PLP-6EA/PLP-6EAE/PLP-6EAL/PLP-6EAL
Optional	i-See Sensor Co			PAC-SE1ME-E	PAC-SE1ME-E	PAC-SE1ME-E
parts	Wirelss Signal R			PAR-SE9FA-E	PAR-SE9FA-E	PAR-SE9FA-E
	Valve kit *6			PAC-SK04VK-E	PAC-SK04VK-E	PAC-SKO4VK-E

Unit Converter: kcal/h=kW×860, BTU/h=kW×3,412, cfm=m³/min×35.31 and lbs=kg/0.4536 (Please note these figures are subject to rounding variation)

- 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. 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.)
- 3. Be sure to install a valve on the water outlet.
- 4. Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.
- 5. PLFY-WL-VEM-E should be used together with Decoration panel.
- 6. When using the W-type and the WL-type indoor units in the same system, install the Valve kit on all WL-type indoor units. When the valve kit is installed farther away from the HBC than the distance between the HBC and the WL-model indoor unit, the maximum allowable height difference between the HBC and the valve kit is 15 meters.
- * Please group units that operate on 1 branch.

Compact Ceiling Cassette



Model				PLFY-WL10VFM-E	PLFY-WL15VFM-E
Power sour	rce			1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz
			kW	1.2	1.7
	Capacity (Nomi	Capacity (Nominal) *1		1,000	1,500
Cooling				4,100	5,800
	Power input		kW	0.02	0.02
	Current input		A	0.18	0.19
			kW	1.4	1.9
	Capacity (Nomi	nal) *2	kcal/h	1,200	1,600
Heating			BTU/h	4,800	6,500
	Power input		kW	0.02	0.02
	Current input		A	0.13	0.14
External fin	nish			Galvanised steel sheet	Galvanised steel sheet
Evtornal di	mension HxWxD		mm	208 x 570 x 570	208 x 570 x 570
external di	IIIelisioii HXWXD		in.	8-1/4x22-1/2x22-1/2	8-1/4x22-1/2x22-1/2
Net Weight			kg (lbs)	13 (29)	13 (29)
		Model		SLP-2FA(L)(E)	SLP-2FA(L)(E)
		External finish		MUNSELL (1.0Y 9.2/0.2)	MUNSELL (1.0Y 9.2/0.2)
Decoration	Panel	Dimensions	mm	10 x 625 x 625	10 x 625 x 625
		DIIIIGIISIOIIS	in.	3/8 x 24-5/8 x 24-5/8	3/8 x 24-5/8 x 24-5/8
		Net Weight	kg (lbs)	3 (7)	3 (7)
Heat Excha	ingor	Туре		Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)
IIGAL LXGIIA	iliyel	Water Volume	L	0.5	0.5
	Type × Quantit	У		Turbo Fan x 1	Turbo Fan x 1
	External Static	tic Pressure Pa		0	0
	Motor Type			DC Motor	DC Motor
Fan	Motor Output		kW	0.05	0.05
1 411	Driving Mechan	ism		Direct-drive	Direct-drive
	Al-flow Date (L	Med Healt	m3/min	6.0 - 6.5 - 7.0	6.0 - 7.0 - 8.0
	Airflow Rate (Lo	W-MIG-HIGN)	L/s	100 - 108 - 117	100 - 117 - 133
			cf/m	212 - 230 - 247	212 - 247 - 282
Sound pres	ssure level (Low-Mid	-High)	dB <a>	25 - 26 - 27	25 - 26 - 29
Insulation I	Material			PS	PS
Air Filter				PP Honeycomb	PP Honeycomb
Protection	Device			Fuse	Fuse
Connectab	le Outdoor Unit/HBC	Controller		Hybrid City Multi CMB-WP-V-GA1, CMB-WP-V	V-GB1, CMB-WM-V-AA, CMB-WM-V-AB
Water Dinir	ng Diameter *3 *4	Inlet	in.	Rc 3/4 screw	Rc 3/4 screw
vvatet ripii	ig Diallietel 5 4	Outlet	in.	Rc 3/4 screw	Rc 3/4 screw
Field Drain	Pipe Size		mm (in.)	0.D.32 (1-1/4)	0.D.32 (1-1/4)
Ontional	Decoration Pan	el *5		SLP-2FA/SLP-2FAE/SLP-2FAL/SLP-2FALE	SLP-2FA/SLP-2FAE/SLP-2FAL/SLP-2FALE
Optional parts	i-See Sensor co	rner panel		PAC-SF1ME-E	PAC-SF1ME-E
μαιιο	Wireless Signal	Receiver		PAR-SF9FA-E	PAR-SF9FA-E

Unit Converter: $kcal/h=kW\times860$, BTU/ $h=kW\times3$,412, $cfm=m^3/min\times35.31$ and lbs=kg/0.4536 (Please note these figures are subject to rounding variation)

- 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. 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.) 3. Be sure to install a valve on the water outlet.

- 4. Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.
- 5. PLFY-WP-VFM-E should be used together with Decoration panel.
- 7. Please group units that operate on 1 branch.

Compact Ceiling Cassette



Model		PLFY-WL20VFM-E	PLFY-WL25VFM-E	PLFY-WL32VFM-E		
Power source				1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz
			kW	2.2	2.8	3.6
	Capacity (Nomi	nal) *1	kcal/h	1,900	2,400	3,100
Cooling			BTU/h	7,500	9,600	12,300
	Power input		kW	0.02	0.03	0.04
	Current input		A	0.22	0.24	0.38
	ourion input		kW	2.5	3.2	4.0
	Capacity (Nomi	Capacity (Nominal) *2		2.200	2.800	3.400
Heating			BTU/h	8.500	10.900	13,600
	Power input		kW	0.02	0.02	0.04
	Current input		A	0.17	0.19	0.32
External fini	ish			Galvanised steel sheet	Galvanised steel sheet	Galvanised steel sheet
			mm	208 x 570 x 570	208 x 570 x 570	208 x 570 x 570
External dimension HxWxD		in.	8-1/4x22-1/2x22-1/2	8-1/4x22-1/2x22-1/2	8-1/4x22-1/2x22-1/2	
Net Weight			kg (lbs)	14 (31)	14 (31)	14 (31)
3		Model	3 ()	SLP-2FA(L)(E)	SLP-2FA(L)(E)	SLP-2FA(L)(E)
		External finish		MUNSELL (1.0Y 9.2/0.2)	MUNSELL (1.0Y 9.2/0.2)	MUNSELL (1.0Y 9.2/0.2)
Decoration I	Panel		mm	10 x 625 x 625	10 x 625 x 625	10 x 625 x 625
Dooration Fallon		Dimensions	in.	3/8 x 24-5/8 x 24-5/8	3/8 x 24-5/8 x 24-5/8	3/8 x 24-5/8 x 24-5/8
		Net Weight	kg (lbs)	3 (7)	3 (7)	3 (7)
		Type	3 (/	Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube
Heat Exchar	nger	Water Volume	L	0.9	0.9	0.5
	Type × Quantity			Turbo Fan x 1	Turbo Fan x 1	Turbo Fan x 1
	71 . 7		Pa	0	0	0
	Motor Type			DC Motor	DC Motor	DC Motor
_			kW	0.05	0.05	0.09
Fan	Driving Mechanism			Direct-drive	Direct-drive	Direct-drive
	Airflow Rate (Low-Mid-High) m3/min L/s		m3/min	6.5 - 7.0 - 8.0	6.5 - 7.5 - 9.0	6.5 - 9.0 - 12.0
			L/s	108 - 117 - 133	108 - 125 - 150	108 - 150 - 200
			cf/m	230 - 247 - 282	230 - 265 - 318	230 - 318 - 424
Sound press	sure level (Low-Mid	-Hiah)	dB <a>	27 - 29 - 31	27 - 30 - 34	27 - 33 - 41
Insulation M		3 /		PS	PS	PS
Air Filter				PP Honeycomb	PP Honeycomb	PP Honeycomb
Protection Device		Fuse	Fuse	Fuse		
	e Outdoor Unit/HBC	Controller			ti CMB-WP-V-GA1, CMB-WP-V-GB1, CMB-WM-V-AA,	
		Inlet	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw
Water Pining Diameter *3 *4		Outlet	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw
Field Drain	Pine Size		mm (in.)	0.D.32 (1-1/4)	0.D.32 (1-1/4)	0.D.32 (1-1/4)
	Decoration Pane	el *5	mm (m.)	SLP-2FA/SLP-2FAE/SLP-2FAL/SLP-2FALE	SLP-2FA/SLP-2FAE/SLP-2FALE	SLP-2FA/SLP-2FAE/SLP-2FAL/SLP-2FAL
Optional	i-See Sensor co			PAC-SF1ME-E	PAC-SF1ME-E	PAC-SF1ME-E
parts	Wireless Signal Receiver			TAO OF TWIL L	TAO OF TIME E	1710 OF TIVIL L

Unit Converter: kcal/h=kW×860, BTU/h=kW×3,412, cfm=m³/min×35.31 and lbs=kg/0.4536 (Please note these figures are subject to rounding variation)

- 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. 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.)
- 3. Be sure to install a valve on the water outlet.
- 4. Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.
- 5. PLFY-WP-VFM-E should be used together with Decoration panel.
 7. Please group units that operate on 1 branch.

Wall Mounted



Model				PKFY-WL10VLM-E	PKFY-WL15VLM-E	PKFY-WL20VLM-E
Power source				1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz
			kW	1.2	1.7	2.2
Cooling	Capacity (Nomi	nal) *1	kcal/h	1,000	1,500	1,900
			BTU/h	4,100	5,800	7,500
	Power input		kW	0.02	0.02	0.03
	Current input	Current input		0.20		0.25
			kW	1.4	1.9	2.5
	Capacity (Nomi	nal) *2	kcal/h	1,200	1,600	2,200
Heating			BTU/h	4,800	6,500	8,500
	Power input		kW	0.01	0.01	0.02
	Current input	Current input		0.15	0.15	0.20
External fin	nish			Plastic (0.7PB 9.2/0.4)	Plastic (0.7PB 9.2/0.4)	Plastic (0.7PB 9.2/0.4)
mm			mm	299 x 773 x 237	299 x 773 x 237	299 x 773 x 237
External dimension HxWxD		in.	11-25/32 x 30-7/16 x 9-11/32	11-25/32 x 30-7/16 x 9-11/32	11-25/32 x 30-7/16 x 9-11/32	
Net Weight			kg (lbs)	11 (25)	11 (25)	11 (25)
		Type		Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)
Heat Excha	inger	Water Volume	L	0.6	0.6	0.7
	Type × Quantity	Type × Quantity		Line Flow Fan x 1	Line Flow Fan x 1	Line Flow Fan x 1
	External Static F	External Static Pressure Pa		0	0	0
	Motor Type	Motor Type		DC Motor	DC Motor	DC Motor
	Motor Output	Motor Output		0.03	0.03	0.03
Fan	Driving Mechan	Driving Mechanism		Direct-Drive	Direct-Drive	Direct-Drive
			m3/min	3.3 - 3.8 - 4.1 - 4.5	3.3 - 3.8 - 4.3 - 4.9	4.0 - 5.0 - 6.0 - 7.0
	Airflow Rate (Lo	Airflow Rate (Low-Mid2-Mid1-High)		55 - 63 - 68 - 75	55 - 63 - 72 - 82	67 - 83 - 100 - 117
			cf/m	117 - 134 - 145 - 159	117 - 134 - 152 - 173	141 - 177 - 212 - 247
Sound pres	ssure level (Low-Mid	2-Mid1-High)	dB <a>	22 - 26 - 28 - 30	22 - 26 - 29 - 32	22 - 28 - 33 - 36
nsulation N	Material			Polythene Sheet	Polythene Sheet	Polythene Sheet
Air Filter				PP Honeycomb	PP Honeycomb	PP Honeycomb
Protection Device				Fuse	Fuse	Fuse
Connectabl	le Outdoor Unit/HBC	Controller		Hybrid City Mult	ti CMB-WP-V-GA1, CMB-WP-V-GB1, CMB-WM-V-AA, C	:MB-WM-V-AB
Inlet in		Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw		
vater Pipin	ng Diameter *3 *4	Outlet	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw
Field Drain Pipe Size mm (in.)			mm (in.)	0.D.16 (5/8)	0.D.16 (5/8)	0.D.16 (5/8)
Optional	Drain Pump Kit			PAC-SK01DM-E	PAC-SK01DM-E	PAC-SK01DM-E
Parts	Valve Kit *5	Valve Kit *5		PAC-SK04VK-E	PAC-SK04VK-E	PAC-SK04VK-E

Unit Converter: $kcal/h=kW\times860$, BTU/ $h=kW\times3$,412, $cfm=m^3/min\times35.31$ and lbs=kg/0.4536 (Please note these figures are subject to rounding variation)

- 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. 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.)
- 3. Be sure to install a valve on the water outlet.
- 4. Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.

 5. When using the W-type and the WL-type indoor units in the same system, install the Valve kit on all WL-type indoor units. When the valve kit is installed farther away from the HBC than the distance between the HBC and the WL-model indoor unit, the maximum allowable height difference between the HBC and the valve kit is 15 meters..
- * Please group units that operate on 1 branch.

Wall Mounted



Model				PKFY-WL25VLM-E PKFY-WL32VLM-E		PKFY-WL40VLM-E	
Power source				1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz	
			kW	2.8	3.6	4.5	
Cooling	Capacity (Nomin	nal) *1	kcal/h	2,400	3,100	3,900	
			BTU/h	9,600	12,300	15,400	
	Power input kW		kW	0.04	0.04	0.05	
	Current input A		A	0.35	0.35	0.45	
			kW	3.2	4.0	5.0	
	Capacity (Nomin	nal) *2	kcal/h	2,800	3,400	4,300	
leating			BTU/h	10,900	13,600	17,100	
	Power input		kW	0.03	0.03	0.04	
	Current input A		A	0.30	0.30	0.40	
External fin	ish			Plastic (0.7PB 9.2/0.4)	Plastic (0.7PB 9.2/0.4)	Plastic (0.7PB 9.2/0.4)	
ألم اممعمليا	manaian HuWuD		mm	299 x 773 x 237	299 x 898 x 237	299 x 898 x 237	
External dimension HxWxD in.		in.	11-25/32 x 30-7/16 x 9-11/32	11-25/32 x 35-3/8 x 9-11/32	11-25/32 x 35-3/8 x 9-11/32		
let Weight			kg (lbs)	11 (25)	13 (29)	13 (29)	
Land Franks		Туре		Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	
leat Excha	nger	Water Volume	L	0.7	1.0	1.1	
	Type × Quantity			Line Flow Fan x 1	Line Flow Fan x 1	Line Flow Fan x 1	
	External Static F	External Static Pressure Pa		0	0	0	
	Motor Type	Motor Type		DC Motor	DC Motor	DC Motor	
	Motor Output		kW	0.03	0.03	0.03	
an	Driving Mechan	Driving Mechanism		Direct-Drive	Direct-Drive	Direct-Drive	
	4: // B . //	APT IP IS	m3/min	4.0 - 5.4 - 7.0 - 8.4	6.3 - 7.6 - 9.0 - 10.4	6.4 - 8.2 - 10.0 - 11.9	
	Airflow Rate (Low-Mid-High)		L/s	67 - 90 - 117 - 140	105 - 127 - 150 - 173	107 - 137 - 167 - 198	
			cf/m	141 - 191 - 247 - 297	222 - 268 - 318 - 367	226 - 290 - 353 - 420	
ound pres	sure level (Low-Mid	-High)	dB <a>	22 - 30 - 36 - 41	29 - 34 - 38 - 41	30 - 36 - 41 - 45	
nsulation N	Vlaterial			Polythene Sheet	Polythene Sheet	Polythene Sheet	
Air Filter				PP Honeycomb	PP Honeycomb	PP Honeycomb	
Protection Device				Fuse	Fuse	Fuse	
onnectabl	le Outdoor Unit/HBC	Controller		Hybrid City Mult	i CMB-WP-V-GA1, CMB-WP-V-GB1, CMB-WM-V-AA, C	CMB-WM-V-AB	
latas Dici-	na Diamatas *0 *4	Inlet	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw	
vater Pipin	ng Diameter *3 *4	Outlet	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw	
Field Drain Pipe Size mm (in.)		0.D.16 (5/8)	0.D.16 (5/8)	0.D.16 (5/8)			
Optional	Drain Pump Kit			PAC-SK01DM-E	PAC-SK01DM-E	PAC-SK01DM-E	
Parts	Valve Kit *5			PAC-SK04VK-E	PAC-SK04VK-E	PAC-SK04VK-E	

Unit Converter: $kcal/h=kW\times860$, BTU/ $h=kW\times3$,412, $cfm=m^3/min\times35.31$ and lbs=kg/0.4536 (Please note these figures are subject to rounding variation)

- 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. 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.)
- 3. Be sure to install a valve on the water outlet.
- 4. Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.

 5. When using the W-type and the WL-type indoor units in the same system, install the Valve kit on all WL-type indoor units. When the valve kit is installed farther away from the HBC than the distance between the HBC and the WL-model indoor unit, the maximum allowable height difference between the HBC and the valve kit is 15 meters..

 * Please group units that operate on 1 branch.

Floor Standing Concealed



Model				PFFY-WP20VLRMM-E	PFFY-WP25VLRMM-E	PFFY-WP32VLRMM-E
Power source	e			1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz
			kW	2.2	2.8	3.6
	Capacity (Nomina	al) *1	kcal/h	1,900	2,400	3,100
Cooling				7,500	9,600	12,300
	Power input *2	Power input *2		0.040	0.040	0.050
	Current input *2	Current input *2		0.35	0.35	0.47
			kW	2.5	3.2	4.0
	Capacity (Nomina	al) *3	kcal/h	2,200	2,800	3,400
Heating			BTU/h	8,500	10,900	13,600
	Power input *2		kW	0.040	0.040	0.050
	Current input *2		A	0.35	0.35	0.47
External fini	sh			Galvanised steel plate	Galvanised steel plate	Galvanised steel plate
External dia	Futured dimension HuWuD		mm	639 x 886 x 220	639 x 1,006 x 220	639 x 1,006 x 220
External dimension HxWxD			in.	25-3/16 x 34-15/16 x 8-11/16	25-3/16 x 39-5/8 x 8-11/16	25-3/16 x 39-5/8 x 8-11/16
Net Weight			kg (lbs)	22 (49)	25 (56)	25 (56)
Heat Exchar	ngor	Type		Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)
HEAL EXCIIAL	Water Volume		L	0.9	1.3	1.3
	Type × Quantity			Sirocco Fan x 1	Sirocco Fan x 2	Sirocco Fan x 2
	External Static Pressure *4		Pa	20 - <40> - <60>	20 - <40> - <60>	20 - <40> - <60>
	LXICITIAL STATIC FT	E2201E 4	mmH ₂ 0	2.0 - <4.1> - <6.1>	2.0 - <4.1> - <6.1>	2.0 - <4.1> - <6.1>
	Motor Type			DC Motor	DC Motor	DC Motor
Fan	Motor Output k		kW	0.096	0.096	0.096
	Driving Mechanism			Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
	Airflow Rate (Low-Mid-High)		m3/min	4.5 - 5.0 - 6.0	6.0 - 7.0 - 8.0	7.5 - 9.0 - 10.5
			L/s	75 - 83 - 100	100 - 117 - 133	125 - 150 - 175
				159 - 177 - 212	212 - 247 - 282	265 - 318 - 371
Sound press in anechoic	sure level (measured room)*2	(Low-Mid-High)	dB <a>	31 - 33 - 38	31 - 33 - 38	31 - 35 - 38
Insulation N	laterial			Polyethelene foam, Urethane foam	Polyethelene foam, Urethane foam	Polyethelene foam, Urethane foam
Air Filter				PP Honeycomb fabric	PP Honeycomb fabric	PP Honeycomb fabric
Protection Device				Fuse	Fuse	Fuse
Connectable	e Outdoor Unit/HBC (Controller		Hybrid City Mul	ti CMB-WP-V-GA1, CMB-WP-V-GB1, CMB-WM-V-AA,	CMB-WM-V-AB
Water Dinin	g Diameter *3 *4	Inlet	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw
vvatet ribili	y Diameter 3 4	Outlet	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw
Field Drain	Pipe Size		mm (in.)	I.D.26 (1) <accessory (1-3="" (top<br="" 0.d.27="" 32)="" hose="">end: 0.D.20 (13/16))></accessory>	I.D.26 (1) < Accessory hose O.D.27 (1-3/32) (top end: O.D.20 (13/16))>	I.D.26 (1) <accessory (1-3="" (top<br="" 32)="" hose="" o.d.27="">end: O.D.20 (13/16))></accessory>
Standard Attachment Accessory				Insulation pipe for water pipe, Drain hose (flexible joint), Screw plate, Level adjusting screw, Hose band	Insulation pipe for water pipe, Drain hose (flexible joint), Screw plate, Level adjusting screw, Hose band	Insulation pipe for water pipe, Drain hose (flexible joint), Screw plate, Level adjusting screw, Hose band

 $\label{eq:converter: kcal/h=kW} \text{Unit Converter: kcal/h=kW} \times 860, \text{BTU/h=kW} \times 3,412, \text{cfm} = m^3/\text{min} \times 35.31 \text{ and lbs} = \text{kg/0.4536} \text{ (Please note these figures are subject to rounding variation)}$

- 1. Nominal cooling conditions Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Outdoor: 35°CD.B./19°CW.B. (95°FD.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0m (0ft).
- 2. The value 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: 0m (0ft).
- $4. \, \text{The factory setting for external pressure is shown without} <>. \, \text{Refer to "Fan characteristics curves", according to the external pressure, in DATA BOOK for the usable range of air flow rate.}$
- 5. Be sure to install a valve on the water outlet,
 6. Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.
- 7. Please group units that operate on 1 branch.

Floor Standing Concealed



Model				PFFY-WP40VLRMM-E	PFFY-WP50VLRMM-E	
Power sou	rce			1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz	
				4.5	5.6	
Cooling	Capacity (Nomin	nal) *1	kcal/h	3,900	4,800	
				15,400	19,100	
	Power input *2	Power input *2		0.050	0.070	
	Current input *2		A	0.47	0.65	
			kW	5.0	6.3	
	Capacity (Nomin	nal) *3	kcal/h	4,300	5,400	
Heating				17,100	21,500	
	Power input *2		kW	0.050	0.070	
	Current input *2		A	0.47	0.65	
External fi	nish			Galvanised steel plate	Galvanised steel plate	
External di	mension HxWxD		mm	639 x 1,246 x 220	639 x 1,246 x 220	
LXICIIIdi U	IIIGII2IOII LIXWXD		in.	25-3/16 x 49-1/16 x 8-11/16	25-3/16 x 49-1/16 x 8-11/16	
Net Weigh			kg (lbs)	29 (64)	29 (64)	
Heat Excha	ngor	Type		Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	
TIGAL LAGIR	iliyel	Water Volume		1.5	1.5	
	Type × Quantity			Sirocco Fan x 2	Sirocco Fan x 2	
	Evternal Static F	External Static Pressure *4		20 - <40> - <60>	20 - <40> - <60>	
		1633016 4	mmH ₂ 0	2.0 - <4.1> - <6.1>	2.0 - <4.1> - <6.1>	
	Motor Type	Motor Type		DC Motor	DC Motor	
Fan	Motor Output	Motor Output		0.096	0.096	
	Driving Mechan	sm		Direct-driven by motor	Direct-driven by motor	
	Airflow Pata /Lo	Airflow Rate (Low-Mid-High)		8.0 - 10.0 - 11.5	10.5 - 13.0 - 15.0	
	All llow hate (Lo			133 - 167 - 192	175 - 217 - 250	
				282 - 353 - 406	371 - 459 - 530	
Sound pre in anechoi	ssure level (measured c room)*2	(Low-Mid-High)	dB <a>	31 - 37 - 40	37 - 42 - 45	
Insulation	Material			Polyethelene foam, Urethane foam	Polyethelene foam, Urethane foam	
Air Filter				PP Honeycomb fabric	PP Honeycomb fabric	
Protection Device				Fuse	Fuse	
Connectable Outdoor Unit/HBC Controller				Hybrid City Multi CMB-WP-V-GA1, CMB-WP-V-GB1, CMB-WM-V-AA, CMB-WM-V-AB		
Water Pini	ng Diameter *3 *4	Inlet	in.	Rc 3/4 screw	Rc 3/4 screw	
**atet i ihi	ny Diameter 3 4	Outlet	in.	Rc 3/4 screw	Rc 3/4 screw	
Field Drair	Pipe Size		mm (in.)	I.D.26 (1) <accessory (1-3="" (13="" (top="" 16))="" 32)="" end:="" hose="" o.d.20="" o.d.27=""></accessory>	I.D.26 (1) < Accessory hose O.D.27 (1-3/32) (top end: O.D.20 (13/16))>	
Standard Attachment Accessory				Insulation pipe for water pipe, Drain hose (flexible joint), Screw plate, Level adjusting screw, Hose band	Insulation pipe for water pipe, Drain hose (flexible joint), Screw plate, Level adjusting screw, Hose band	

Unit Converter: $kcal/h=kW\times860$, BTU/ $h=kW\times3$,412, $cfm=m^3/min\times35.31$ and lbs=kg/0.4536 (Please note these figures are subject to rounding variation)

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

- 2. The value 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: 0m (0ft).

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

 5. Be sure to install a valve on the water outlet,
- 6. Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.
- 7. Please group units that operate on 1 branch.





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



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- All units line tested
- · Performance tested
- 800 hour heat stress test
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