



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?

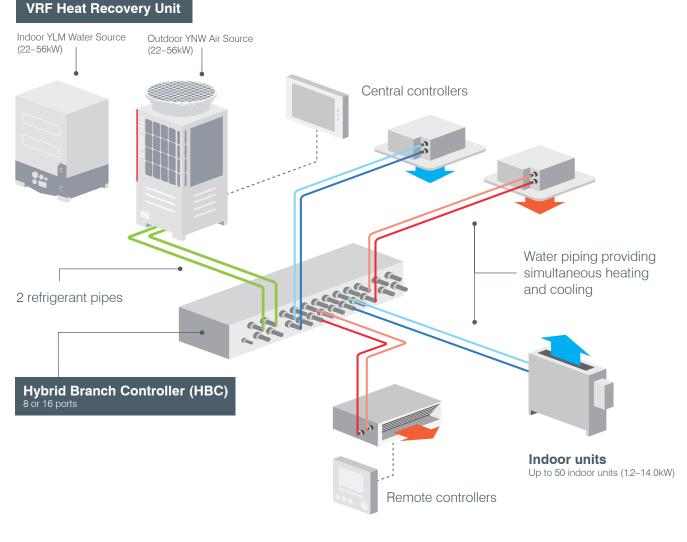
Next Generation 2-Pipe Water Based VRF Technology

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.





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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

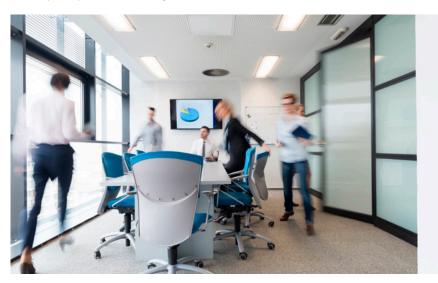
Customer comfort is paramount with legislation focusing attention on energy use and seeking to limit the use of refrigerant in occupied spaces. Hybrid VRF minimises the need for leak detection in the occupied space, thereby reducing the total cost of the system and ongoing maintenance of the leak detection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

Hospitals and Medical Centres

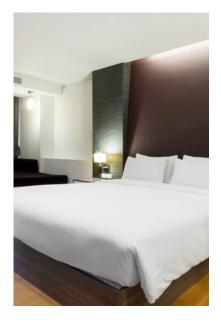
With regards to patient health and safety, this system has no refrigerant in the indoor units and can deliver mild off-coil temperatures through the Water-Based Hybrid VRF indoor units. HVRF mitigates the need for leak detectors in consulting rooms and provides a solution to critical refrigerant limits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

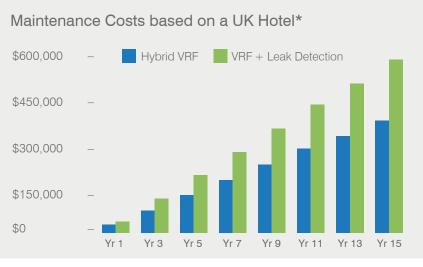
Minimise the Need for Leak Detection Systems

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.

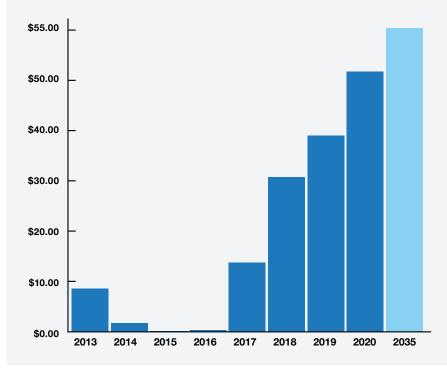
Emissions Trading Scheme

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 traditonal 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.

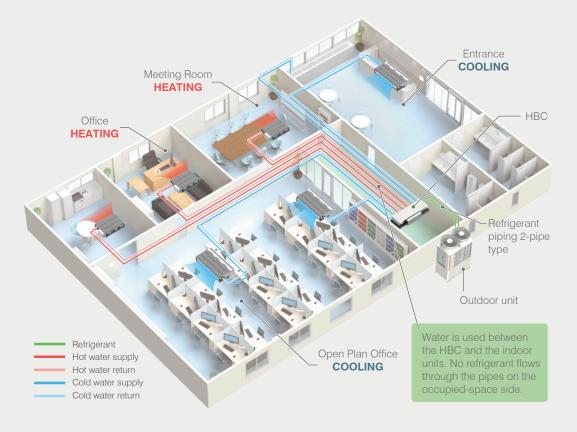


Image for representation only

The HVRF plant room may need leak detection based on AS/NZS 5149. (1-4) 2016.

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 ongoing 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, 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 highlevel 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

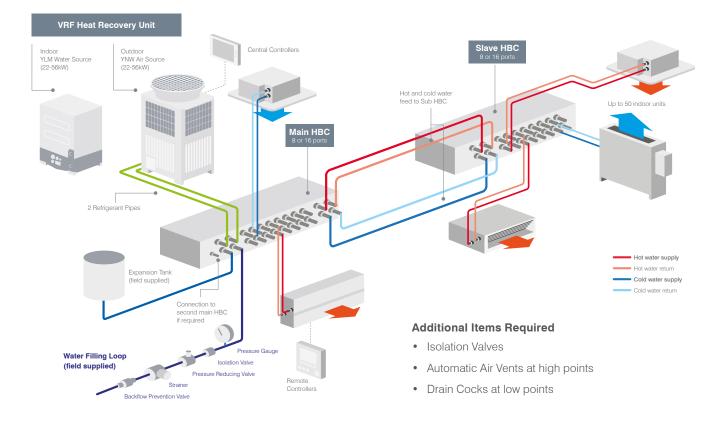
The best solution to meet the challenges was to select HVRF systems that provide heating and cooling to many of the mixed-use library and health hub areas. The HVRF Systems were selected by the consultant for the principle reason of having less extreme air-off temperatures, and slower temperature change 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 PURY-YNW/PQRY-YLM	1st Main HBC	1st Slave HBC	2nd Main HBC	2nd Slave HBC
P200	Required	Optional	-	-
P250	Required	Optional	-	-
P300	Required	Optional	Optional	Optional
P350	Required	Optional	Optional	Optional
P400	Required	Optional	Required	Optional
P450	Required	Optional	Required	Optional
P500	Required	Optional	Required	Optional

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 water to its respective flow header.

B - Pumps

Each set of Plate Heat Exchangers has a 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;

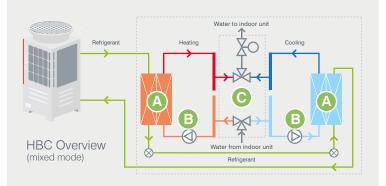
Firstly, it has the choice of selecting between the two flow headers.

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

Connection to slave HBC

Water flow/return to indoor units 8 or 16 port options available

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

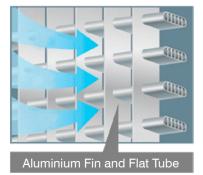


HVRF Air Source Outdoor Unit

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 inverterdriven compressor, providing simultaneous heating and cooling. The ultimate in heat exchange efficiency with aluminium flat tube heat exchanger technology!





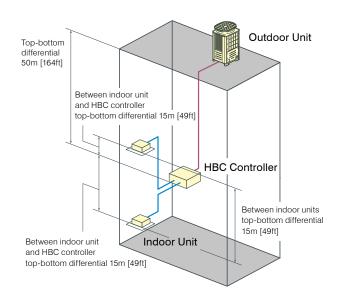


Inverter Compressor Available on EP High COP Models Only

Model	Lineup
Model	Lincup

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



R	Refrigerant Pipe 🕡 Water Pipe	
Rei	frigerant Piping Lengths	Maximum meters [Feet]
R	Distance between heat source and HBC	110 [360]
W	Farthest indoor unit from HBC controller	60 [196]
Vei	rtical differentials between units	Maximum meters [Feet]
R	United and a second sec	50.510.03
U	Heat source/HBC controller	50 [164]
ß	Heat source/HBC controller HBC/heat source (heat source unit abobe HBC)	50 [164] 50 [164]
-	,	L 3
ß	HBC/heat source (heat source unit abobe HBC)	50 [164]
® ®	HBC/heat source (heat source unit abobe HBC) HBC/heat source (heat source unit below HBC)	50 [164] 40 [131]
® ®	HBC/heat source (heat source unit abobe HBC) HBC/heat source (heat source unit below HBC) Indoor/HBC controller	50 [164] 40 [131] 15 (10) [49 (32)]*1

*1. Values in () are applied when indoor total capacity exceeds 130% of outdoor unit capacity.

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.

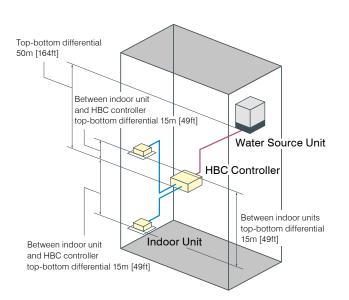




Model Lineup

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Cooling Capacity	22.4kW	28.0kW	33.5kW	40.0kW	45.0kW	50.0kW	56.0W

Piping Length



R	🔞 Refrigerant Pipe 🖤 Water Pipe									
Ref	rigerant Piping Lengths	Maximum meters [Feet]								
R	Distance between heat source and HBC	110 [360]								
W	Farthest indoor unit from HBC controller	60 [196]								
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R	Heat source/HBC controller	50 [164]								
R	HBC/heat source (heat source unit abobe HBC)	50 [164]								
R	HBC/heat source (heat source unit below HBC)	40 [131]								
W	Indoor/HBC controller	15 (10) [49 (32)]*1								
W	Indoor/indoor	15 (10) [49 (32)]* ¹								
R	HBC/HBC controller	15 (10) [49 (32)]* ¹								

*1. Values in () are applied when indoor total capacity exceeds 130% of outdoor unit capacity.

Page 15 |HVRF R410A

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.

Туре	Main	-НВС	Sub-HBC			
Model	A ANNUE OF	AC ALL MARTINE CON	fragmer.	Leannannan Leannannann Leannannann		
	CMB-WM108V-AA	CMB-WM1016V-AA	CMB-WM108V-AB	CMB-WM1016V-AB		
Total Branches	8	16	8	16		

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	and the second s					•	•	•					
Compact Cassette	PLFY-WL VFM-E		•	•	•	•	•							
Floor Standing Concealed	PFFY-WP VLRMM-E				•	•	•	•	•					
Wall Mounted	PKFY-WL VLM-E	A	•	•	•	•	•	•						

Controller Range

Remote Controllers



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Standard Controller PAR-33MAA

- Energy saving
- Backlit LCD screen

Dual set point option

- Error information
- Advanced M-NET Controller PAR-U02MEDA
- Dual set point option

Brightness sensor

Touch panel and backlit

Energy saving

- Occupancy sensor
- LED indicator

Operation lock

setting

Weekly schedule

Temperature range

• Temperature and humidity sensor

•

- Weekly schedule
- Error information

16.4 N.



LCD

•

•

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

Centralised Controllers and BMS Interface



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.



28.8"

A MITSUBISH EL





CITY MULTI



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 source	9			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz		
	0		kW	22.4	28.0		
	Capacity (Nomin	al) *1	BTU / h	76,400	95,500		
	Power input	Power input		7.00	9.92		
Cooling	Current input	Current input		11.8-11.2-10.8	16.7-15.9-15.3		
	EER		kW / kW	3.20	2.82		
	T D	emp. Bange *3		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)		
			kW	25.0	31.5		
	Capacity (Nomin	ai) "Z	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		
0	COP		kW / kW	3.53	3.13		
	-	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)		
		Total capacity		50~150% of outdoor unit capacity	50~150% of outdoor unit capacity		
ndoor 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		
	r level (measured in	,	dB <a>	76/78	78.5/80		
		High pressure	mm (in.)	15.88 (5/8) Brazed	19.05 (3/4) Brazed		
Refrigerant p	iping diameter	Low pressure	mm (in.)	19.05 (3/4) Brazed	22.2 (7/8) Brazed		
	Type x Quantity	Type x Quantity		Propeller fan x 1	Propeller fan x 1		
	Typo x duantity	Air flow rate Control, Driving mechanism		170	185		
	Air flow rate			2.833	3.083		
Fan	All How fato			6.003	6,532		
i un	Control Driving			Inverter-control, direct-driven by motor	Inverter-control, direct-driven by motor		
	Motor output	nconaniani	kW	0.92 x 1	0.92 x 1		
	External static pr	000 *5	I. Y V	0 Pa (0 mmH20)	0.32 x 1 0 Pa (0 mmH20)		
	Type	press. 5		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor		
	Starting method			Inverter	Inverter		
Compressor	Motor output		kW	5.6	7.0		
	Case heater		kW	- (- V)	7.0 - (- V)		
External finis			K.VV	- (- V) Pre-coated galvanized steel sheets (+powder coati			
LAIGHIAI IIIIG	011		mm	1,858 (1.798 withou	•		
External dim	ension HxWxD		in.				
	High pressure pr	atastian		73-3/16 (70-13/16 without	• ,		
D	Inverter circuit (C			High pressure sensor, High pressu			
Protection devices		OWF./TAN)		Over-heat protection, O	ver-current protection		
0641069	Compressor Fan motor			-	-		
				-	-		
	Type/GWP	Wetelst	La.	R410A / 2088	R410A / 2088		
	Factory charged	Weight	kg	5.2	5.2		
Defense		CO2 equivalent *6		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		
	5	CO2 equivalent *6		77.26	89.78		
Net weight			kg (lbs)	229 (505)	229 (505)		
Heat exchan	, ,			Salt-resistant cross			
Defrosting m	ethod			Auto-defrost mode (Reversed	d refrigerant cycle, Hot gas)		

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 :

- 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.



Model				PURY-P3001	(NW-A (-BS)	PURY-P350YNW-A (-BS)			
Number of HBC controller				Single HBC	Double HBC	Single HBC	Double HBC		
ower source				3-phase 4-wire 380-		5	400-415 V 50/60 Hz		
			kW	33			1.0		
	Capacity (Nomina	al) *1	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		
Jooning	EER		kW/kW	2.51 2.96		2.23 2.74			
		Indoor	W.B.			2.23 2.74 15.0~24.0°C (59~75°F)			
	Temp. Range *3	mp. Range *3 Indoor W.B. 15.0~24.0°C (59~75°F) Outdoor D.B5.0~52.0°C (23~126°F)			-5.0~52.0°C	. ,			
		Outdool	kW	-5.0-52.0 0	· /		i.0		
	Capacity (Nomin	al) *2	BTU / h	128,			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		
icaliiiy	COP		A kW/kW	21.4-20.3-19.0	20.1-19.1-18.4	20.1-24.8-23.9	24.2-23.0-22.1		
	UUF	Indoor	D.B.						
	Temp. range *3	Outdoor	U.B. W.B.	15.0~27.0°C		15.0~27.0°	· ·		
			٧٧.D.	-20.0~15.5°(1 /		C (-4~60°F)		
Indoor unit c	onnectable	Total capacity		50~150% of outd			door unit capacity		
		Model / Quantity	dDA	WP10~WP			2125/2~50		
	1	in anechoic room)*4		61/		62.5			
Sonua bomei	level (measured in		dB <a>	80/8		81/83			
Refrigerant p	iping diameter	High pressure	mm (in.)	19.05 (3/4	,	19.05 (3/	,		
		Low pressure	mm (in.)	22.2 (7/8	,	28.58 (1-1/8) Brazed			
	Type x Quantity			Propeller fan x 1		Propeller fan x 2			
	Air flow rate		m3/min	24		250 4.167			
_			L/s	4,0		,			
an	Outlet D.1.1		cfm	8,4		8,828			
	Control, Driving r	mechanism	1.11	Inverter-control, dire	,	Inverter-control, direct-driven by motor			
	Motor output		kW	0.92			3 x 2		
	External static pr	ess. *5		0 Pa (0 n	,	0 Pa (0 mmH20)			
	Туре			Inverter scroll herr		Inverter scroll hermetic compressor			
Compressor	Starting method			Inverter		Inverter			
,	Motor output		kW	7.9		10.2			
	Case heater		kW	- (-	1	- (- V)			
External finis	h				• ()	ting for -BS type) <munsell 1="" 5y="" 8="" or="" s<="" td=""><td></td></munsell>			
External dim	ension HxWxD		mm	1,858 (1,798 withou		1,858 (1,798 withou			
			in.	73-3/16 (70-13/16 withou	v 7	73-3/16 (70-13/16 withou	t legs) x 48-7/8 x 29-3/16		
	High pressure pro					sure switch at 4.15 MPa (601 psi)			
Protection	Inverter circuit (C	COMP./FAN)			Over-heat protection,	Over-current protection			
devices	Compressor			-					
	Fan motor			-					
	Type/GWP			R410A ,		R410A			
	Factory charged	Weight	kg	5.			0		
	. actory onargou	CO2 equivalent *6		10.		16			
Refrigerant	Max additional	Weight	kg	37.			.3		
	charge	CO2 equivalent *6		78.		86			
	Total charge	Weight	kg	43	.0	49	.3		
	iviai vilalye	CO2 equivalent *6	t	89.	78	102.94			
Net weight			kg (lbs)	231 (510)	273 (602)			
Heat exchanç	jer				Salt-resistant cros	s fin & copper tube			
Defrosting m	ethod				Auto-defrost mode (Reverse	ed refrigerant cycle, Hot gas)			

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 :

- 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.



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		
	0 11 01	11.44	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
Cooling	Current input		A	28.1-26.7-25.7	30.2-28.7-27.7	38.2-36.3-35.0
5	EER		kW / kW	2.70	2.79	2.47
		Indoor		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)
				45.0	56.0	58.0
	Capacity (Nomin	Capacity (Nominal) *2		153,500	191,100	197,900
	Power input		BTU / h kW	13.39	17.39	17.53
leating	Current input		A	22.6-21.4-20.6	29.3-27.8-26.8	29.5-28.1-27.0
	COP		kW / kW	3.36	3.22	3.30
		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
ndoor unit c	onnectable	Model / Quantity		WP10~WP125/2~50	WP10~125. W10~125/2~50	WP10~125, W10~125/2~50
Sound press	ure level (measured	in anechoic room)*4	dB <a>	65/69	65.5/70.0	63.5/64.5
	· level (measured in	,	dB < A >	83/88	83.0/89.0	82.0/84.0
Sound hower	level (illeasuleu ill	High pressure	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed
Refrigerant p	iping diameter	ung diameter		(· · /	1 · · · ·	
Type x Quantity		Low pressure	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
			m2/min	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
			m3/min	315	315	295
	AIT TIOW FATE		L/s	5,250	5,250	4,917
an	cfm		CIM	11,123	11,123	10,416
	Control, Driving r	nechanism	1.147	Inverter-control, direct-driven by motor	Inverter-control, direct-driven by motor	Inverter-control, direct-driven by motor
	Motor output		kW	0.46 x 2	0.46 x 2	0.92 x 2
	External static pr	ess.*5		0 Pa (0 mmH20)	0 Pa (0 mmH20)	0 Pa (0 mmH20)
	Туре			Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
Compressor	Starting method			Inverter	Inverter	Inverter
	Motor output		kW	10.9	12.4	13.0
	Case heater		kW	- (- V)	- (- V)	- (- V)
External finis	h			Pre-coated galvanized	d steel sheets (+powder coating for -BS type) $<$ MUNSEI	L 5Y 8/1 or similar>
Fotosa I. P.			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
	High pressure pr	ataction		48-7/8 x 29-3/16	48-7/8 x 29-3/16	68-15/16 x 29-3/16
				High	pressure sensor, High pressure switch at 4.15 MPa (601	psi)
Protection devices	Inverter circuit (C	UWF./FAN)			Over-heat protection, Over-current protection	
IENICE2	Compressor			-	-	-
	Fan motor			-	-	-
	Type/GWP	147-1-1-1	L.	R410A / 2088	R410A / 2088	R410A / 2088
	Factory charged	Weight	kg	8.0	10.8	10.8
	, ,	CO2 equivalent *6		16.70	22.5	22.55
Refrigerant	Max additional	Weight	kg	47.3	44.5	45.2
	charge	CO2 equivalent *6		98.76	92.92	94.38
	Total charge	Weight	kg	55.3	55.3	56.0
	iotai onurgo	CO2 equivalent *6		115.47	115.47	116.93
Net weight			kg (lbs)	273 (602)	293 (646)	337 (743)
Heat exchanç	/				Salt-resistant cross fin & copper tube	
Defrosting m	ethod				Auto-defrost mode (Reversed refrigerant cycle)	

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 :

- Notes:
 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.)
 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.)
 -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.

- 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-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	
1 ONOI ODUIO			kW	22.4	28.0	
	Capacity (Nomina	al) *1	BTU / h	76.400	95,500	
	Power input	Power input		6.27	8.77	
Cooling	Current input		kW	10.5-10.0-9.6	14.8-14.0-13.5	
5	EER		kW / kW	3.57	3.19	
		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)	
			kW	25.0	31.5	
	Capacity (Nomina	al) *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	
0	COP		kW / kW	3.61	3.20	
		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)	
		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	
		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	
	Air flow rate		m3/min	170	185	
			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	External static press. *5		0 Pa (0 mmH20)	0 Pa (0 mmH20)	
	Туре			Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	
0	Starting method	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 coa	ting for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>	
Eutomol dim			mm	1,858 (1,798 witho	ut legs) x 920 x 740	
External dim	ension HxWxD		in.	73-3/16 (70-13/16 withou	t legs) x 36-1/4 x 29-3/16	
	High pressure pro	otection		High pressure sensor, High press	sure switch at 4.15 MPa (601 psi)	
Protection	Inverter circuit (C	OMP./FAN)		Over-heat protection, (Over-current protection	
devices	Compressor			-	-	
	Fan motor			-	-	
	Type/GWP			R410A / 2088	R410A / 2088	
	Eastory shares	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 charge	Weight	kg	33.5	39.5	
	iotai cilalye	CO2 equivalent *6	t	69.95	82.48	
Net weight			kg (lbs)	234 (516)	234 (516)	
Heat exchanç	ger			Salt-resistant cross	in & aluminium tube	
Defrosting m	ethod			Auto-defrost mode (Reverse	d refrigerant cycle, Hot gas)	

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

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. (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.

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



Model				PURY-EP300	DYNW-A (-BS)	PURY-EP350	PURY-EP350YNW-A (-BS)		
Number of H	BC controller			Single HBC	Double HBC	Single HBC	Double HBC		
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		
	Canadia (March	al) *4	kW		3.5	40			
	Capacity (Nomin	al) ^1	BTU / h	114	,300	136.	136.500		
	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		
Ţ.	EER		kW / kW	2.78	3.27	2.33	2.86		
		Indoor	W.B.		C (59~75°F)	15.0~24.0°C			
	Temp. Range *3	Outdoor	D.B.		C (23~126°F)	-5.0~52.0°C	· /		
			kW		7.5	45			
	Capacity (Nomin	al) *2	BTU / h		,000	153,			
	Power input		kW	11.71	11.12	15.38	14.28		
leating	Current input		A	19.7-18.7-18.1	18.7-17.8-17.1	25.9-24.6-23.7	24.1-22.9-22.0		
Insating	COP		kW / kW	3.20	3.37	2.92	3.15		
		Indoor	D.B.		5.57 C (59~81°F)	2.52 15.0~27.0°C			
	Temp. range *3	Outdoor	W.B.		C (-4~60°F)	-20.0~15.5°	· /		
		Total capacity	11.U.		door unit capacity	-20.0~13.3 50~150% of outo	, ,		
ndoor unit c	onnectable	Model / Quantity			2125/2~45	50~150% 01 0000 WP10~WP			
Sound proce	ura laval (manaurad	in anechoic room)*4	dB < A >			62.5			
	r level (measured in	/	dB <a>	61/67 80/86.5					
Sound hower	i ievei (illedouleu III	High pressure	ub < A > mm (in.)	80/86.5 19.05 (3/4) Brazed		81/83 19.05 (3/4) Brazed			
Refrigerant p	piping diameter	Low pressure		22.2 (7/8) Brazed		· · · ·			
	Type x Quantity	row hiesznie	mm (in.)	,	,	28.58 (1-1/8) Brazed Propeller fan x 2			
	Type x quantity		m3/min		er fan x 1 40				
	Air flow rate		L/s		40	25			
			cfm	1	000	4,1			
Fan	Control Driving mechanism		CIIII		474	8,8			
	Control, Driving mechanism		kW	Inverter-control, direct-driven by motor 0.92 x 1		Inverter-control, dir			
	Motor output	··· * F	KW			0.46 x 2			
	External static pr	ess. "5		0 Pa (0 mmH20)		0 Pa (0 mmH20)			
	Туре			Inverter scroll hermetic compressor		Inverter scroll hermetic compressor			
Compressor	Starting method		1.147		erter	Inverter			
	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>			
External dim	ension HxWxD		mm		ut legs) x 920 x 740	1,858 (1,798 withou	• / ·		
			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					sure switch at 4.15 MPa (601 psi)			
Protection	Inverter circuit (C	OMP./FAN)			Over-heat protection,	Over-current protection			
devices	Compressor				-				
	Fan motor				-	•			
	Type/GWP				/ 2088	R410A			
	Factory charged	Weight	kg		.2	8.			
		CO2 equivalent *6			.86	16.			
Refrigerant	Max additional	Weight	kg		4.3	3			
	charge	CO2 equivalent *6			.62	81.			
	Total charge	Weight	kg		9.5	47			
	iotai onaiyo	CO2 equivalent *6	t	82	.48	98			
Net weight			kg (lbs)	236 (521)		279 (616)			
Heat exchan	ger				Salt-resistant cross	fin & aluminium tube			
Defrosting m	iethod				Auto-defrost mode (Revers	ed refrigerant cycle, Hot gas)			

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. (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	9				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	al) " l	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
	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)
			kW	50.0	56.0	63.0
	Capacity (Nomin	al) *2	BTU / h	170,600	191,100	215,000
	Power input		kW	14.12	16.86	21.67
leating	Current input		A	23.8-22.6-21.8	28.4-27.0-26.0	36.5-34.7-33.4
libuting	COP		kW / kW	3.54	3.32	2.90
	001	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	ττ.D.	50~150% of outdoor unit capacity	50~150% of outdoor unit capacity	-20.0~15.0 C (-4~00 P) 50~150% of outdoor unit capacity
idoor unit c	onnectable	Model / Quantity		WP10~WP125/2~50	WP10~WP125/2~50	WP10~WP125/2~50
ound proces	ura laval (manaurad	in anechoic room)*4	dB < A >	WP10~WP125/2~50 65/69	,	63.5/64.5
	1	· · · ·		1	65.5/70	,
ouna power	r level (measured in	,	dB < A >	83/88	83/89	82/84
efrigerant p	iping diameter	High pressure	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed
	T 0 111	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	71 7		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
			m3/min	315	315	295
			L/s	5,250	5,250	4,917
an			cfm	11,123	11,123	10,416
	Control, Driving mechanism			Inverter-control, direct-driven by motor	Inverter-control, direct-driven by motor	Inverter-control, direct-driven by motor
		Motor output kW		0.46 x 2	0.46 x 2	0.92 x 2
	External static press. *5			0 Pa (0 mmH20)	0 Pa (0 mmH20)	0 Pa (0 mmH20)
	Туре			Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
ompressor	Starting method			Inverter	Inverter	Inverter
10111111103301	Motor output		kW	10.9	12.4	13.0
	Case heater		kW	- (- V)	- (- V)	- (- V)
xternal finis	h			Pre-coated galvanized	d steel sheets (+powder coating for -BS type) $<$ MUNSE	LL 5Y 8/1 or similar>
			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 dim	ension HxWxD		in.	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 68-15/16 x 29-3/16
	High pressure pro	otection		High	pressure sensor, High pressure switch at 4.15 MPa (601	psi)
rotection	Inverter circuit (C	OMP./FAN)			Over-heat protection, Over-current protection	
evices	Compressor			-	-	-
	Fan motor			-	-	-
	Type/GWP			R410A / 2088	R410A / 2088	R410A / 2088
		Weight	kg	8.0	10.8	10.8
	Factory charged	CO2 equivalent *6	•	16.70	22.55	22.55
Refrigerant	Max additional	Weight	kg	39.0	44.7	45.2
	charge	CO2 equivalent *6	•	81.43	93.33	94.38
		Weight	kg	47.0	55.5	56.0
	Total charge	CO2 equivalent *6		98.14	115.88	116.93
let weiaht		SOL OYUNAIONE U	kg (lbs)	282 (622)	306 (675)	345 (761)
leat exchanc	Tor		ny (ino)	202 (022)	Salt-resistant cross fin & copper tube	545 (101)
,	, ,					
efrosting m	ietii00				Auto-defrost mode (reversed refrigerant cycle, hot gas)	

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. (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.

Water Source Unit



Model				PQRY-P200YLM-A1	PQRY-P250YLM-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	
	Capacity (Nominal) *1		kW	22.4	28.0	
			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	
0	EER		kW / kW	5.64	5.14	
	7 0 00	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)	
		1	kW	25.0	31.5	
	Capacity (Nomin	al) *2	BTU / h	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	
3	СОР		kW / kW	6.18	5.82	
		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)	
		Total capacity		50~150% of heat source unit capacity	50~150% of heat source unit capacity	
Indoor unit co	onnectable	Model / Quantity		WP10~WP125/1~30	WP10~WP125/1~37	
Sound pressu	ire level (measured		dB <a>	46	48	
		High pressure	mm (in.)	15.88 (5/8) Brazed	19.05 (3/4) Brazed	
Refrigerant pi	ping diameter	Low pressure	mm (in.)	19.05 (3/4) Brazed	22.2 (7/8) Brazed	
			m3/min	5.76	5.76	
	Water flow rate Pressure Drop		L/min	96	96	
Circulating			cfm	3.4	3.4	
Nater			kPa	24	24	
	Operating Volume Range		m3/h	3.0 ~ 7.2	3.0 ~ 7.2	
	Type	o nango	1110/11	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	
	Starting method			Inverter	Inverter	
Compressor	Motor output		kW	4.8	6.2	
	Case heater		kW	4.0	0.2	
External finis			I. VV	– Galvanized steel sheets	Galvanized steel sheets	
LAIGHNAI IIIIIS	11		mm	1.100 x 880 x 550	1.100 x 880 x 550	
External dime	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 pr	otaction	111.	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	Inverter circuit (C			Over-heat protection, Over-current protection	Over-heat protection, over-current protection	
devices	Compressor	Joiwii .J		Over-heat protection	Over-heat protection	
	Type x Original C	harao		R410A/2088	R410A/2088	
	Factory charged	παι με	kg	5.0	5.0	
Refrigerant	, .		kg	27.0	32.0	
	Maximum additional charge Total charge		kg	32.0	32.0	
Notwoight	iviai vildiye		0			
Net weight	Tupo		kg (lbs)	170 (375)	170 (375)	
Heat	Type Water volume in	nlata	L	plate type	plate type	
exchanger	Water volume in plate			5.0	5.0	
	Water pressure n	nax	MPa	2.0	2.0	

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 :

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).
 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).
 -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-P3	00YLM-A1	PQRY-P350YLM-A1		
Number of HE	3C Controller			Single HBC Double HBC		Single HBC	Double HBC	
Power source	<u>)</u>			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		
	Canacity (Marris	al) *1	kW	33.5		40.0		
	Capacity (Nominal) *1		BTU / h	114,300		136,500		
	Power input		kW	7.55	6.71	9.98	8.72	
Cooling	Current input		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	
	Temp Dense *0	Indoor	W.B.	15.0~24.0°C	C (59~75°F)	15.0~24.0°C	(59~75°F)	
	Temp. Range *3	Outdoor	D.B.	10.0~45.0°C	C (50~113°F)	10.0~45.0°C (50~113°F)	
	Capacity (Nomin	al) *0	kW	37	7.5	45.0)	
	Capacity (Notiti	idi) Z	BTU / h	128,	000	153,5	00	
	Power input		kW	7.13	6.79	8.87	8.25	
leating	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	
	Temp. range *3	Indoor	D.B.	15.0~27.0°C	C (59~81°F)	15.0~27.0°C (59~81°F)	
	remp. range 3	Outdoor	W.B.	10.0~45.0°C	C (50~113°F)	10.0~45.0°C (50~113°F)	
ndoor unit co	annostabla	Total capacity		50~150% of heat s	ource unit capacity	50~150% of heat sou	urce unit capacity	
	JIIIeolable	Model / Quantity		WP10~WP125/2~45		WP10~WP125/2~50		
Sound pressu	ure level (measured	in anechoic room)	dB <a>	54		52		
Rofrigorant ni	iping diameter	High pressure	mm (in.)	19.05 (3/4) Brazed		22.2 (7/8)	Brazed	
terriyerant p	ipiliy ulameter	Low pressure	mm (in.)	22.2 (7/8	3) Brazed	28.58 (1-1/8) Brazed	
	Water flow rate		m3/min	5.	76	7.20		
Circulating			L/min	9	6	120		
Vater			cfm	3.4		4.2		
rator	Pressure Drop		kPa	24		44		
	Operating Volum	e Range	m3/h	3.0 ~ 7.2		4.5 ~ 11.6		
	Туре			Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		
Compressor	Starting method	Starting method		Inverter		Inverter		
201110103301	Motor output		kW	7.7		9.5		
	Case heater		kW	-	-	-		
External finis	h			Galvanized	steel sheets	Galvanized steel sheets		
vternal dime	ension HxWxD		mm	1,100 x 8		1,450 x 880 x 550		
			in.	43-5/16 x 34-1	1/16 x 21-11/16	57-1/8 x 34-11/16 x		
Protection	High pressure pr			High pressure sensor, High press	,	High pressure sensor, high pressu		
devices	Inverter circuit (COMP.)		Over-heat protection, C	Over-current protection	Over-heat protection, ov	er-current protection	
	Compressor			Over-heat		Over-heat pr		
	Type x Original C	Charge		R410A	/2088	R410A/2	2088	
Refrigerant	Factory charged		kg	5.		6.0		
ioniyolani	Maximum additional charge		kg	33.0		52.0		
Total charge k		kg	38.0		58.0			
Vet weight			kg (lbs)	170 ((375)	214 (4	72)	
Heat	Туре			plate	e type	plate t	ype	
exchanger	Water volume in	1	L	5.		5.0		
	Water pressure r	nax	MPa	2.	.0	2.0		

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.), 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



Capacity (Nomina			0 phone 4 wite 000 400 445 V 50/00 !!				
Capacity (Nomina			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		
Capacity (Nomina	Capacity (Nominal) *1		Canacity (Nominal) *1		45.0	50.0	56.0
Capacity (Noninal)		BTU / h	153,500	170,600	191,100		
Power input kW		kW	10.05	12.05	14.58		
Current input		A	16.9-16.1-15.5	20.3-19.3-18.6	24.6-23.3-22.5		
		kW / kW	4.47	4.14	3.84		
	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.		(/	10.0~45.0°C (50~113°F)		
		kW		56.0	63.0		
Capacity (Nomina	il) *2	BTU / h		191.100	215.000		
Power input		kW.	,	1	13.07		
-					22.0-20.9-20.2		
					4.82		
	Indoor				15.0~27.0°C (59~81°F)		
Temp. range *3			()		10.0~45.0°C (50~113°F)		
		W.D.	()	()	50~150% of heat source unit capacity		
nnectable	1 2				WP10~WP125/2~50		
re level (measured		dB < A>			54		
ie iever (incasurea	,				22.2 (7/8) Brazed		
ping diameter					28.58 (1-1/8) Brazed		
	Low pressure	1 /	,	· · · /	7.20		
Water flow rate					120		
Walti IIUW Ialt					4.2		
Processo Prop					4.2		
					44 4.5 ~ 11.6		
1 0	naliye	1110/11			4.5 ~ 11.0		
21	a a dha a						
0		LAM			Inverter		
					13.0		
		KVV	_	-	-		
					Galvanized steel sheets		
nsion HxWxD			1	1	1,450 x 880 x 550		
		IN.			57-1/8 x 34-11/16 x 21-11/16		
High pressure pro	tection				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
Inverter circuit (C	OMP.)		Over-heat protection, Over-current protection	Over-heat protection, over-current protection	Over-heat protection, Over-current protection		
Compressor			Over-heat protection	Over-heat protection	Over-heat protection		
Type x Original Ch	narge		R410A/2088	R410A/2088	R410A/2088		
Factory charged		kg	6.0	6.0	6.0		
		kg	52.0	53.0	55.0		
Total charge		kg	58.0 59.0		61.0		
v		kg (lbs)	214 (472)	214 (472)	214 (472)		
Туре		/	()		plate type		
	late	L	5.0	5.0	5.0		
		MPa	2.0	2.0	2.0		
	EER Temp. Range *3 Capacity (Nomina Power input Current input COP Temp. range *3 Innectable re level (measured oing diameter Water flow rate Pressure Drop Operating Volume Type Starting method Motor output Case heater Inverter circuit (C Compressor Type x Original CH Factory charged Maximum additio Total charge Type Water volume in p	EER Indoor Temp. Range *3 Indoor Outdoor Outdoor Capacity (Nominal) *2 Power input Current input Corrent input COP Indoor Temp. range *3 Indoor Outdoor Total capacity Model / Quantity Model / Quantity re level (measured in anechoic room) High pressure Ding diameter High pressure Water flow rate Vater sure Pressure Drop	EER KW / KW Temp. Range *3 Indoor W.B. Outdoor D.B. Capacity (Nominal) *2 BTU / h Power input KW Power input KW COP KW / kW Current input A COP KW / kW Temp. range *3 Indoor D.B. Outdoor W.B. D.B. Temp. range *3 Indoor D.B. Outdoor W.B. Model / Quantity Innectable Total capacity mm (n.) Ing diameter High pressure mm (n.) Ing diameter High pressure mm (n.) Vater flow rate KPa Operating volume Range m3/h Type Starting method KW Gase heater kW Notor output KW High pressure protection in. Inverter circuit (COMP.) mm Compressor mm Type x Original Charge kg Factory charged kg Maximum additional charge kg Type kg Total charge kg Maximum additional charge kg Maxier volume in plate L	EER KW / KW 4.47 Temp. Range *3 Indoor W.B. 15.0~24.0°C (59~75°F) Capacity (Nominal) *2 KW 50.0 Capacity (Nominal) *2 KW 50.0 Power input KW 9.45 Current input KW 9.45 Current input A 15.9~15.1~14.6 COP KW / KW 5.29 Temp. range *3 Indoor D.B. 15.0~27.0°C (50~81°F) Outdoor W.B. 10.0~45.0°C (50~113°F) Outdoor W.B. 10.0~45.0°C (50~113°F) Temp. range *3 Indoor W.B. 10.0~45.0°C (50~113°F) Outdoor W.B. 10.0~45.0°C (50~113°F) Mode/0 Outdoor W.B. 10.0~45.0°C (50~113°F) Mode/0 Outdoor W.B. 10.0~45.0°C (50~113°F) Mode/0 Outdoor M.B. 10.0~45.0°C (50~113°F) Mode/0 Outdoor M.B. 10.0~25.0°C (50~113°F) Mode/0 Outdoor M.B. 7.0 Mod/0 <	EER kW / kW 4.47 4.14 Temp. Range *2 Outdoor Indoor W.B. 15.0-24.0°C (59-75°F) 15.0-24.0°C (59-75°F) Capacity (Nominal) *2 BU No 50.0 50.0 Capacity (Nominal) *2 BU No 50.0 50.0 Capacity (Nominal) *2 BU No 9.50.4 11.11 Corrent input KW 9.45 11.11 10.0-45.0°C (59-81°F) Corrent input KW 9.45 11.11 10.0-45.0°C (59-81°F) Corrent input KW / kW 5.29 5.04 10.0-27.0°C (59-81°F) Temp. range *3 Indoor D.8 10.0-45.0°C (50-113°F) 10.0-27.0°C (59-81°F) Temp. range *3 Indod / Quantity W 9.0 50-50% of heat source unit capacity Model / Quantity M S0-150% of heat source unit capacity 50-150% of heat source unit capacity Model / Quantity Mm (in) 22.2 (70) Brazed 22.7 (70) Brazed 22.7 (70) Brazed Sing diameter High pressure mm (in) 22.2 (70) Brazed 2		

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.), 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.

HBC Controller



Main-HBC

Model				CMB-WM108V-AA		CMB-WM1016V-AA	
Number of Bra	anch			8		16	
Power Source				1-phase 220	-230-240 V	1-phase 220	-230-240 V
				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	4	1	4	1
Applicable Te	mperature Range o	f Installation Site	°C (D.B.)	0~32		0~	32
External Finis	External Finish			Galvanised steel plate (Lower part drain pan: pre-coated galvanised sheets + powder coating)		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	M-A1
Indoor Unit C	apacity Connectabl	e to 1 Branch		Model P80 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds P81)		Model P80 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds P81)	
External Dime	ension H x W x D		mm	300 x 1,520 x 630		300 x 1,800 x 630	
LAUGINAI DIING	5113101111 X W X 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) Brazed	15.88 (5/8) Brazed	
Diameter		Low Press. Pipe (0.D.)	mm (in.)	19.05 (3/	4) Brazed	19.05 (3/4	4) Brazed
Water Piping	To Indoor Unit	HInlet Pipe (I.D.)	mm (in.)	20 (3/4)	20 (3/4)
Diameter Of Indoor Office Out		Outlet Pipe (I.D.)	mm (in.)	20 (3/4)	20 (3/4)
Field Drain Pi	Field Drain Pipe Size mm (in.)		0.D. 32 (1-1/4)		0.D. 32 (1-1/4)		
Net Weight			kg (lbs)	86 (190) [96 (212) with water]		98 (217) [111 (245) with water]	
Standard Atta	ichment Accesso	ry		Drain Connection pipe (with flexible hose and insulation)		Drain Connection pipe (with flexible hose and insulation)	

Notes:

* 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



Sub-HBC



Model				CMB-WM108V-AB		CMB-WM1016V-AB	
Number of Bra	anch			8		16	
Power Source				1-phase 220	-230-240 V	1-phase 220)-230-240 V
				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))	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))	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	h			Galvanised steel plate (Lower part drain pan: pre-coated galvanised sheets + powder coating)		Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)	
Connectable (Outdoor Unit			-		-	
Indoor Unit Ca	apacity Connectab	le to 1 Branch		Model P80 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds P81)		Model P80 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds P81)	
Extornal Dima	ension H x W x D		mm	300 x 1,5	20 x 630	300 x 1,520 x 630	
LALCIII di Diiiic	112101111XWXD		in.	11-13/16 x 59-	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 (3/4)	20 (3/4)	
Water Piping		Outlet Pipe (I.D.)	mm (in.)	20 (3/4)	20 (3/4)
Diameter	To Indoor Unit	HInlet Pipe (I.D.)	mm (in.)	20 (3/4)	20 (3/4)
	Outlet Pipe (I.D.) mn		mm (in.)	20 (3/4)	20 (3/4)
Field Drain Pi	Field Drain Pipe Size mm (in.)		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	ory		Drain Connection pipe (with	flexible hose and insulation)	Drain Connection pipe (with flexible hose and insulation)	

Notes:

* 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.

* 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).

*Main HBC Controller is necessary with sub HBC.

Slim Ceiling Concealed



Model				PEFY-WP10VMS1-E	PEFY-WP15VMS1-E
Power sou	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 (Nomina	al) *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	al) *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		A	0.21	0.33
External fi	nish			Galvanised steel plate	Galvanised steel plate
External d	mension HxWxD		mm	200x790x700	200x790x700
External u	IIIelisioli fixwxd		in.	7-7/8 x 31-1/8 x 27-9/16	7-7/8 x 31-1/8 x 27-9/16
Net Weigh			kg (lbs)	19 (42)	19 (42)
Heat Exch	ingor	Туре		Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)
HEAL LAUN	liigei	Water Volume		0.4	0.7
	Type $ imes$ Quantity			Sirocco fan x 2	Sirocco fan x 2
	External Static Pr	External Static Pressure *4		<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>
		633UIC 4	mmH ₂ 0	<0.5> - 1.5 - <3.6> - <5.1>	<0.5> - 1.5 - <3.6> - <5.1>
	Motor Type	Motor Type		DC Motor	DC Motor
Fan	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 pre in anechoi	ssure level (measured c room)*2	(Low Mid High)	dB <a>	20-23-25	22-24-28
Insulation	Material			EPS, Polythene foam, Urethane foam	EPS, Polythene 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-W	/P-V-GB1, CMB-WM-V-AA, CMB-WM-V-AB	
Water Piping Diameter *5 *6 Inlet Outlet		in.	Rc 3/4 screw	Rc 3/4 screw	
		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)
Standard /	ttachment Accessor	у		Insulation pipe for water pipe, Washer, Drain hose, Tie Band	Insulation pipe for water pipe, Washer, Drain hose, Tie Band
Optional p	art Control Box Repla	ice Kit		PAC-KE70HS-E	PAC-KE70HS-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)

Notes:

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.

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	Capacity (Nominal) *1		1,900	2,400
Cooling				7,500	9,600
	Power input *2		kW	0.051	0.06
	Current input*2		A	0.49	0.51
			kW	2.5	3.2
	Capacity (Nomina	l) *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
External fir	ish			Galvanised steel plate	Galvanised steel plate
Evtornol di	mension HxWxD		mm	200x790x700	200x790x700
EXTERIIQI OL	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
Net Weight			kg (lbs)	20 (45)	20 (45)
Heat Excha	paor	Туре		Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)
iedi Lituiid	Water Volume		L	0.9	0.9
	Type $ imes$ Quantity			Sirocco fan x 2	Sirocco fan x 2
	Extornal Static Pr	External Static Pressure *4		<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>
	LATEITIAI STATIC FI			<0.5> - 1.5 - <3.6> - <5.1>	<0.5> - 1.5 - <3.6> - <5.1>
	Motor Type	Motor Type		DC Motor	DC Motor
Fan	Motor Output		kW	0.096	0.096
	Driving Mechanis	m		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 in anechoid	ssure level (measured c room)*2	(Low Mid High)	dB <a>	23-25-29	23-26-30
Insulation I	Vlaterial			EPS, Polythene foam, Urethane foam	EPS, Polythene 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-W	/P-V-GB1, CMB-WM-V-AA, CMB-WM-V-AB	
Water Piping Diameter *5 *6 Inlet Outlet		Inlet	in.	Rc 3/4 screw	Rc 3/4 screw
		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)
Standard A	ttachment Accessor	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	ice Kit		PAC-KE70HS-E	PAC-KE70HS-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)

Notes:

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.

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Slim Ceiling Concealed



Model				PEFY-WP32VMS1-E	PEFY-WP40VMS1-E	PEFY-WP50VMS1-E
Power sour	ce			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 (Nomina	Capacity (Nominal) *1 kcal/ BTU/		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 (Nomina	al) *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 fin	iish			Galvanised steel plate	Galvanised steel plate	Galvanised steel plate
E			mm	200x990x700	200x990x700	200x1,190x700
External di	mension 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 Weight			kg (lbs)	25 (56)	25 (56)	27 (60)
		Туре		Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)
Heat Excha	nger	Water Volume	L	1.0	1.0	1.7
	Type × Quantity			Sirocco fan x 3	Sirocco fan x 3	Sirocco fan x 4
	5	*1	Ра	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>
	External Static Pr	External Static Pressure *4 mmH ₂ 0		<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)		DC Motor	DC Motor	DC Motor
Fan	Motor Output	tput kW		0.096	0.096	0.096
	Driving Mechanis	ving Mechanism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
				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
Sound pres	ssure level (measured c room)*2	(Low Mid High)	dB <a>	28-30-33	30-32-35	30-33-36
Insulation M	Vaterial			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
Connectable Outdoor Unit/HBC Controller		Hybrid City Mul	ti CMB-WP-V-GA1, CMB-WP-V-GB1, CMB-WM-V-AA, C	MB-WM-V-AB		
Water Dirt	na Diamatas XE XC	Inlet	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw
water Pipir	ng Diameter *5 *6	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 A	ttachment Accessor	'y		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, Tie Band
Ontional na	art Control Box Repla	ace Kit		PAC-KE70HS-E	PAC-KE70HS-E	PAC-KE70HS-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)

Notes:

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: 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.

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.



Model			PEFY-WP20VMA-E	PEFY-WP25VMA-E	
Power sour	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	Capacity (Nominal) *1		1,900	2,400
Cooling			BTU/h	7,500	9,600
	Power input *2		kW	0.07	0.09
	Current input*2		A	0.55	0.64
			kW	2.5	3.2
	Capacity (Nomina	ıl) *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 fir	nish			Galvanised steel plate	Galvanised steel plate
Evtornal di	mension HxWxD		mm	250x700x732	250x900x732
EXTENIAL	IIIeIISIOII HXWXD		in.	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 35-7/16 x 28-7/8
Net Weight	t		kg (lbs)	21 (47)	26 (58)
Heat Excha	angor	Туре		Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)
I IE'di Exulia	Water Volume		L	0.7	1.0
	Type $ imes$ Quantity			Sirocco fan x 1	Sirocco fan x 1
	External Static Pr	neeuro *A	Pa	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>
		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
Sound pres in anechoid	ssure level (measured c room)*2	(Low Mid High)	dB <a>	23-26-29	23-27-30
Insulation I	Material			EPS, Polythene foam, Urethane foam	EPS, Polythene 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-W	P-V-GB1, CMB-WM-V-AA, CMB-WM-V-AB	
Water Piping Diameter *5 *6		Inlet	in.	Rc 3/4 screw	Rc 3/4 screw
νναισι Γιμπ	ny Diameter J 0	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)
Standard A	ttachment Accessor	у		Insulation pipe for water pipe, Washer, Drain hose, Tie Band	Insulation pipe for water pipe, Washer, Drain hose, Tie Band
Optional pr	art Control Box Repla	ice Kit		PAC-KE91TB-E	PAC-KE91TB-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)

Notes:

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-WP32VMA-E	PEFY-WP40VMA-E	PEFY-WP50VMA-E
Power soul	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
				3.6	4.5	5.6
	Capacity (Nomina	al) *1	kcal/h	3,100	3,900	4,800
Cooling			BTU/h	12,300	15,400	19,100
	Power input *2		kW	0.11	0.14	0.14
	Current input*2		A	0.74	1.15	1.15
			kW	4.0	5.0	6.3
	Capacity (Nomina	al) *3	kcal/h	3,400	4,300	5,400
Heating			BTU/h	13,600	17,100	21,500
	Power input *2		kW	0.09	0.12	0.12
	Current input *2		A	0.63	1.04	1.04
External fir	nish			Galvanised steel plate	Galvanised steel plate	Galvanised steel plate
E de la constant			mm	250x900x732	250x1,100x732	250x1,100x732
External dimension 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)
I Look Freedor		Туре		Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)
Heat Exchanger		Water Volume L		1.0	1.8	1.8
	Type $ imes$ Quantity			Sirocco fan x 1	Sirocco fan x 2	Sirocco fan x 2
	Estand Otal's Deserve #4		Ра	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>
	External Static Pr	External Static Pressure *4		<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	Motor Output		0.085	0.121	0.121
	Driving Mechanis	ving Mechanism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
		(Low Mid High)	m3/min	12.0 - 14.5 - 17.0	14.5 - 18.0 - 21.0	14.5 - 18.0 - 21.0
	Airflow Rate		L/s	200 - 242 - 283	242 - 300 - 350	242 - 300 - 350
			cf/m	424 - 512 - 600	512 - 636 - 742	512 - 636 - 742
Sound prea in anechoid	ssure level (measured c room)*2	(Low Mid High)	dB <a>	25-29-32	26-29-34	26-29-34
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 C	ontroller		Hybrid City Mult	i CMB-WP-V-GA1, CMB-WP-V-GB1, CMB-WM-V-AA, C	CMB-WM-V-AB
Wator Dist.	a Diamator *E *C	Inlet	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw
water Pipii	ng Diameter *5 *6	Outlet	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw
		mm (in.)	0.D.32 (1-1/4)	0.D.32 (1-1/4)	0.D.32 (1-1/4)	
Standard A	ttachment 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 pa	art Control Box Repla	ice Kit		PAC-KE92TB-E	PAC-KE93TB-E	PAC-KE93TB-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)

Notes:

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: 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.

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.



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	al) *1	kcal/h	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 fi	nish			Galvanised steel plate	Galvanised steel plate	Galvanised steel plate
Eutomol di	mension HuWuD		mm	250x1,100x732	250x1,400x732	250x1,400x732
External di	mension HxWxD		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			kg (lbs)	31 (69)	40 (89)	40 (89)
Llast Euclu		Туре		Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)
Heal Exclia	Heat Exchanger V		L	2.0	2.6	2.6
	Type $ imes$ Quantity			Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2
	External Static Pressure *4		Pa	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>
	EXTERNAL STALLC FI	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>
	Motor Type	Motor Type		DC Motor	DC Motor	DC Motor
Fan	Motor Output	otor Output kW		0.121	0.244	0.244
	Driving Mechanis	m		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
		(Low Mid High)	m3/min	14.5 - 18.0 - 21.0	23.0 - 28.0 - 33.0	23.0 - 28.0 - 33.0
	Airflow Rate		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 preatin 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
Connectable Outdoor Unit/HBC Controller		Hybrid City Mul	ti CMB-WP-V-GA1, CMB-WP-V-GB1, CMB-WM-V-AA,	CMB-WM-V-AB		
Watar Dini	na Diamotor *5 *6	Inlet	in.	Rc 1-1/4 screw	Rc 1-1/4 screw	Rc 1-1/4 screw
Water Piping Diameter *5 *6		Outlet	in.	Rc 1-1/4 screw	Rc 1-1/4 screw	Rc 1-1/4 screw
Field Drair	I 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	.y		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, Tie Band
Optional p	art Control Box Repl	ace Kit		PAC-KE93TB-E	PAC-KE94TB-E	PAC-KE94TB-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)

Notes:

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: Om (0ft).

The value are measured at the factory setting of external static pressure.
 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).
 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.



Model				PEFY-WP100VMA-E	PEFY-WP125VMA-E
Power soui	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	II) *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	ish			Galvanised steel plate	Galvanised steel plate
Evtornal di	mension HxWxD		mm	250x1,400x732	250x1,600x732
EXTGUIU UI	IIIEIISIOII HXWXD		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 Excha	ingor	Туре		Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)
IIGAL ENGIIA	niger	Water Volume	L	2.6	3.0
	Type $ imes$ Quantity			Sirocco fan x 2	Sirocco fan x 2
	External Static Pr	neeuro */	Pa	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>
		53016 M	mmH_2O	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>
	Motor Type			DC Motor	DC Motor
Fan	Motor Output		kW	0.244	0.244
	Driving Mechanis	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 pres in anechoid	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
Mator Dini	ng Diameter *5 *6	Inlet	in.	Rc 1-1/4 screw	Rc 1-1/4 screw
νναισι Γιμπ	iy Diallielei 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)	0.D.32 (1-1/4)
Standard A	ttachment Accessor	ý.		Insulation pipe for water pipe, Washer, Drain hose, Tie Band	Insulation pipe for water pipe, Washer, Drain hose, Tie Band
Optional p	art Control Box Repla	ice Kit		PAC-KE94TB-E	PAC-KE95TB-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)

Notes:

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.

Ceiling Cassette



Model				PLFY-WL32VEM-E	PLFY-WL40VEM-E	PLFY-WL50VEM-E
Power sour	ce			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 (Nomi	nal) *1	kcal/h	3,100	3,900	4,800
Cooling			BTU/h	12,300	15.400	19,100
	Power input		kW	0.03	0.03	0.04
	Current input	input A 0.33 0.35 kW 4.0 5.0		0.40		
			kW	4.0	5.0	6.3
	Capacity (Nomi	nal) *2	kcal/h	3.400	4.300	5,400
Heating		kcal/h 3,400 4,300 BTU/h 13,600 17,100 kW 0.03 0.03 A 0.27 0.29 C Galvanised steel sheet Galvanised steel sheet mm 258 x 840 x 840 258 x 840 x 840	21,500			
0	Power input		kW	0.03	0.03	0.04
	Current input		A			0.34
External fin				Galvanised steel sheet		Galvanised steel plate
			mm	258 x 840 x 840	258 x 840 x 840	258 x 840 x 840
:xternal dir	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 External finish		0()	PLP-6EA	PLP-6EA	PLP-6EA
				MUNSELL (1.0Y 9.2/0.2)	MUNSELL (1.0Y 9.2/0.2)	MUNSELL (1.0Y 9.2/0.2)
Decoration	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		Net Weight	kg (lbs)	5 (11)	5 (11)	5 (11)
		Туре		Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)
Heat Exchai	nger	Water Volume L		1.8	1.8	1.8
	Type \times Quantity			Turbo Fan x 1	Turbo Fan x 1	Turbo Fan x 1
	External Static F	tic 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	echanism		Direct-drive	Direct-drive	Direct-driven by motor
			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 pres	sure level (Low-Mid	1-Mid2-High)	dB <a>	26 - 27 - 29 - 30	26 - 28 - 29 - 31	27 - 29 - 31 - 33
nsulation N	/laterial			PS	PS	PS
Air Filter				PP Honeycomb	PP Honeycomb	PP Honeycomb
Protection [Device			Fuse	Fuse	Fuse
Refrigerant	Control Device				-	-
Connectabl	e Outdoor Unit/HBC	Controller		Hybrid City Mu	Iti 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
water Pipin	g 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.32 (1-1/4)	0.D.32 (1-1/4)	0.D.32 (1-1/4)
	Decoration Pane	1 *5		PLP-6EA/PLP-6EAE/PLP-6EAL/PLP-6EALE	PLP-6EA/PLP-6EAE/PLP-6EAL/PLP-6EALE	PLP-6EA/PLP-6EAE/PLP-6EAL/PLP-6EALE
Optional	i-See Sensor Co	ntrol Panel		PAC-SE1ME-E	PAC-SE1ME-E	PAC-SE1ME-E
parts	Wirelss Signal F	eceiver		PAR-SE9FA-E	PAR-SE9FA-E	PAR-SE9FA-E
	Valve kit *6			PAC-SK04VK-E	PAC-SK04VK-E	PAC-SK04VK-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)

Notes:

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.

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
				1.2	1.7
	Capacity (Nomin	al) *1	kcal/h	1,000	1,500
Cooling			BTU/h	4,100	5,800
	Power input		kW	0.02	0.02
	Current input		A	0.18	0.19
			kW	1.4	1.9
	Capacity (Nomin	al) *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 fir	nish			Galvanised steel sheet	Galvanised steel sheet
F			mm	208 x 570 x 570	208 x 570 x 570
External di	mension 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	D:	mm	10 x 625 x 625	10 x 625 x 625
		Dimensions	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)
		Туре		Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)
Heat Excha	inger	Water Volume	L	0.5	0.5
	Type × Quantity	Type \times Quantity		Turbo Fan x 1	Turbo Fan x 1
	External Static P	tic Pressure Pa		0	0
	Motor Type			DC Motor	DC Motor
E	Motor Output		kW	0.05	0.05
Fan	Driving Mechani	sm		Direct-drive	Direct-drive
			m3/min	6.0 - 6.5 - 7.0	6.0 - 7.0 - 8.0
	Airflow Rate (Lov	v-Mid-High)	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-GB1, CMB-WM-V-AA, CMB-WM-V-AB
Webs D'		Inlet	in.	Rc 3/4 screw	Rc 3/4 screw
water Pipir	ng Diameter *3 *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)
	Decoration Pane	*5		SLP-2FA/SLP-2FAE/SLP-2FAL/SLP-2FALE	SLP-2FA/SLP-2FAE/SLP-2FAL/SLP-2FALE
Optional parts	i-See Sensor cor	ner panel		PAC-SF1ME-E	PAC-SF1ME-E
parts	Wireless Signal			PAR-SF9FA-E	PAR-SF9FA-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)

Notes:

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.

 $\ensuremath{\text{7. Please group units that operate on 1 branch.}}$

Compact Ceiling Cassette



Model				PLFY-WL20VFM-E	PLFY-WL25VFM-E	PLFY-WL32VFM-E
Power sour	се			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	inal) *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
			kW	2.5	3.2	4.0
	Capacity (Nomi	inal) *2	kcal/h	2,200	2,800	3,400
leating			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
xternal fin	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
xternal di	ternal dimension HxWxD		in.	8-1/4x22-1/2x22-1/2	8-1/4x22-1/2x22-1/2	8-1/4x22-1/2x22-1/2
let Weight			kg (lbs)	14 (31)	14 (31)	14 (31)
		Model		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)
)ecoration			mm	10 x 625 x 625	10 x 625 x 625	10 x 625 x 625
		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)
		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	0.9	0.9	0.5
	Type × Quantit	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
an	Motor Output	kW		0.05	0.05	0.09
-911	Driving Mechar	ism		Direct-drive	Direct-drive	Direct-drive
			m3/min	6.5 - 7.0 - 8.0	6.5 - 7.5 - 9.0	6.5 - 9.0 - 12.0
	Airflow Rate (Lo	ow-Mid-High)	L/s	108 - 117 - 133	108 - 125 - 150	108 - 150 - 200
			cf/m	230 - 247 - 282	230 - 265 - 318	230 - 318 - 424
Sound pres	sure level (Low-Mic	l-High)	dB <a>	27 - 29 - 31	27 - 30 - 34	27 - 33 - 41
nsulation M	/laterial			PS	PS	PS
Air Filter				PP Honeycomb	PP Honeycomb	PP Honeycomb
Protection	Device			Fuse	Fuse	Fuse
Connectabl	le Outdoor Unit/HBC	Controller		Hybrid City Mu	Iti CMB-WP-V-GA1, CMB-WP-V-GB1, CMB-WM-V-AA, (CMB-WM-V-AB
Votor Dini-	iq Diameter *3 *4	Inlet	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw
valer mipir	iy Diameter 13 14	Outlet	in.	Rc 3/4 screw	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)	0.D.32 (1-1/4)
) - 1 ¹ 1	Decoration Pan	el *5		SLP-2FA/SLP-2FAE/SLP-2FAL/SLP-2FALE	SLP-2FA/SLP-2FAE/SLP-2FAL/SLP-2FALE	SLP-2FA/SLP-2FAE/SLP-2FAL/SLP-2FALE
Optional Darts	i-See Sensor co	orner panel		PAC-SF1ME-E	PAC-SF1ME-E	PAC-SF1ME-E
μαιιο	Wireless Signal			PAR-SF9FA-E	PAR-SF9FA-E	PAR-SF9FA-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)

Notes:

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 sour	ce			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
	Capacity (Nominal) *1	kcal/h	1,000	1,500	1,900
Cooling			BTU/h	4,100	5,800	7,500
	Power input		kW	0.02	0.02	0.03
	Current input		A	0.20	0.20	0.25
			kW	1.4	1.9	2.5
	Capacity (Nominal) *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		A	0.15	0.15	0.20
External fin	ish			Plastic (0.7PB 9.2/0.4)	Plastic (0.7PB 9.2/0.4)	Plastic (0.7PB 9.2/0.4)
E de la constantia	and the line of th		mm	299 x 773 x 237	299 x 773 x 237	299 x 773 x 237
External dir	nension 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)
		Туре		Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)
Heat Exchanger Water Volume		Water Volume	L	0.6	0.6	0.7
	Type \times Quantity			Line Flow Fan x 1	Line Flow Fan x 1	Line Flow Fan x 1
	External Static Pres	External Static Pressure Pa		0	0	0
	Motor Type			DC Motor	DC Motor	DC Motor
Fan	Motor Output	Motor Output		0.03	0.03	0.03
Fan	Driving Mechanism	1		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 (Low-	Mid2-Mid1-High)	L/s	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	sure level (Low-Mid2-Mid2-Mid2-Mid2-Mid2-Mid2-Mid2-Mid2	Vid1-High)	dB <a>	22 - 26 - 28 - 30	22 - 26 - 29 - 32	22 - 28 - 33 - 36
nsulation N	Naterial			Polythene Sheet	Polythene Sheet	Polythene Sheet
Air Filter				PP Honeycomb	PP Honeycomb	PP Honeycomb
Protection I	Device			Fuse	Fuse	Fuse
Connectabl	e Outdoor Unit/HBC Co	ontroller		Hybrid City Mul	ti CMB-WP-V-GA1, CMB-WP-V-GB1, CMB-WM-V-AA, C	CMB-WM-V-AB
Natar Dista	a Diamatas \$2.84	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 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×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)

Notes:

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..

Wall Mounted



Model				PKFY-WL25VLM-E	PKFY-WL32VLM-E	PKFY-WL40VLM-E
Power sour	се			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
				2.8	3.6	4.5
	Capacity (Nomi	nal) *1	kcal/h	2,400	3,100	3,900
Cooling			BTU/h	9,600	12,300	15,400
	Power input		kW	0.04	0.04	0.05
	Current input		A	0.35	0.35	0.45
			kW	3.2	4.0	5.0
	Capacity (Nomi	nal) *2	kcal/h	2,800	3,400	4,300
Heating			BTU/h	10,900	13,600	17,100
	Power input		kW	0.03	0.03	0.04
	Current input		A	0.30	0.30	0.40
External fir	ish			Plastic (0.7PB 9.2/0.4)	Plastic (0.7PB 9.2/0.4)	Plastic (0.7PB 9.2/0.4)
			mm	299 x 773 x 237	299 x 898 x 237	299 x 898 x 237
External dimension HxWxD		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	
		kg (lbs)	11 (25)	13 (29)	13 (29)	
Heat Exchanger Type Water Volume			Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	
		L	0.7	1.0	1.1	
	Type \times 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
Fan	Driving Mechan	iving Mechanism		Direct-Drive	Direct-Drive	Direct-Drive
			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 (Lo	w-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
Sound pres	sure level (Low-Mid	-High)	dB <a>	22 - 30 - 36 - 41	29 - 34 - 38 - 41	30 - 36 - 41 - 45
Insulation I	Naterial			Polythene Sheet	Polythene Sheet	Polythene Sheet
Air Filter				PP Honeycomb	PP Honeycomb	PP Honeycomb
Protection	Device			Fuse	Fuse	Fuse
	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
	D: . +0 +4	Inlet	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw
water Pipir	ter Piping 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×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)

Notes:

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				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	
	Capacity (Nominal) *1		kW	2.2	2.8	3.6	
	Capacity (Nomina	ll) *1	kcal/h	1,900	2,400	3,100	
Cooling			BTU/h	7,500	9,600	12,300	
	Power input *2		kW	0.040	0.040	0.050	
	Current input *2		A	0.35	0.35	0.47	
			kW	2.5	3.2	4.0	
	Capacity (Nomina	l) *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 fin	ish			Galvanised steel plate	Galvanised steel plate	Galvanised steel plate	
External dir			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)	
Llast Evaluation	Туре			Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	
Heat Exchanger	iger	Water Volume		0.9	1.3	1.3	
	Type $ imes$ Quantity			Sirocco Fan x 1	Sirocco Fan x 2	Sirocco Fan x 2	
	External Statia Dr.	External Static Pressure *4		20 - <40> - <60>	20 - <40> - <60>	20 - <40> - <60>	
	External Static Pr			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	kW		0.096	0.096	0.096	
	Driving Mechanis	Driving Mechanism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	
	Alaflan Data (Lan	MELTICAL)	m3/min	4.5 - 5.0 - 6.0	6.0 - 7.0 - 8.0	7.5 - 9.0 - 10.5	
	Airflow Rate (Low	-Mid-High)	L/s	75 - 83 - 100	100 - 117 - 133	125 - 150 - 175	
			cf/m	159 - 177 - 212	212 - 247 - 282	265 - 318 - 371	
Sound pres 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 [Protection Device			Fuse	Fuse	Fuse	
Connectabl	e Outdoor Unit/HBC C	ontroller		Hybrid City Mul	ti CMB-WP-V-GA1, CMB-WP-V-GB1, CMB-WM-V-AA,	CMB-WM-V-AB	
Weber Dista	- Diamatan *0 *4	Inlet	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw	
water Pipin	g 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 (1-3="" (top<br="" 0.d.27="" 32)="" hose="">end: 0.D.20 (13/16))></accessory>	I.D.26 (1) <accessory (1-3="" (top<br="" 0.d.27="" 32)="" hose="">end: 0.D.20 (13/16))></accessory>	
Standard At	tachment Accessor	y		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	

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)

Notes:

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: 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.

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.

Floor Standing Concealed



Model			PFFY-WP40VLRMM-E	PFFY-WP50VLRMM-E		
Power sour	се			1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz	
		kW	4.5	5.6		
	Capacity (Nomina	al) *1	kcal/h	3,900	4,800	
Cooling			BTU/h	15,400	19,100	
	Power input *2		kW	0.050	0.070	
Current input			A	0.47	0.65	
			kW	5.0	6.3	
	Capacity (Nomina	al) *3	kcal/h	4,300	5,400	
Heating			BTU/h	17,100	21,500	
	Power input *2		kW	0.050	0.070	
	Current input *2		A	0.47	0.65	
External fir	ish			Galvanised steel plate	Galvanised steel plate	
Evtornal di	mension HxWxD		mm	639 x 1,246 x 220	639 x 1,246 x 220	
LXIGIIIdi UI	IIGU2IOU 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 Weight			kg (lbs)	29 (64)	29 (64)	
Heat Excha	ngor	Туре		Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	
IIEdi LXUIId	liyei	Water Volume L		1.5	1.5	
	Type $ imes$ Quantity			Sirocco Fan x 2	Sirocco Fan x 2	
	External Static Pr	accura */	Pa	20 - <40> - <60>	20 - <40> - <60>	
		COOULC 4	mmH_2O	2.0 - <4.1> - <6.1>	2.0 - <4.1> - <6.1>	
	Motor Type			DC Motor	DC Motor	
Fan	Motor Output		kW	0.096	0.096	
	Driving Mechanis	m		Direct-driven by motor	Direct-driven by motor	
	Airflow Rate (Low	(Mid High)	m3/min	8.0 - 10.0 - 11.5	10.5 - 13.0 - 15.0	
	AITTOW Hate (LOW	-wiu-riigii)	L/s	133 - 167 - 192	175 - 217 - 250	
			cf/m	282 - 353 - 406	371 - 459 - 530	
Sound pres in anechoid	sure level (measured croom)*2	(Low-Mid-High)	dB <a>	31 - 37 - 40	37 - 42 - 45	
Insulation I	Naterial			Polyethelene foam, Urethane foam	Polyethelene foam, Urethane foam	
Air Filter				PP Honeycomb fabric	PP Honeycomb fabric	
Protection	Device			Fuse	Fuse	
Connectab	le Outdoor Unit/HBC C	Controller		Hybrid City Multi CMB-WP-V-GA1, CMB-W	P-V-GB1, CMB-WM-V-AA, CMB-WM-V-AB	
Water Dinir	iq Diameter *3 *4	Inlet	in.	Rc 3/4 screw	Rc 3/4 screw	
νναισι ΓιμΠ	iy Diallielei 5 4	Outlet	in.	Rc 3/4 screw	Rc 3/4 screw	
Field Drain	Pipe Size		mm (in.)	I.D.26 (1) <accessory (1-3="" (13="" (top="" 0.d.20="" 0.d.27="" 16))="" 32)="" end:="" hose=""></accessory>	I.D.26 (1) <accessory (1-3="" (13="" (top="" 0.d.20="" 0.d.27="" 16))="" 32)="" end:="" hose=""></accessory>	
Standard A	ttachment Accessor	у		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×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)

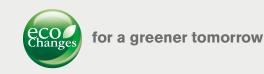
Notes:

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).

Nominal heating conditions – Indoor. 20°CD.8. (68°FD.8.), Outdoor: 7°CD.8./6°CW.8. (45°FD.8./43°FW.8) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0m (0ft).
 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.
 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.





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.



Quality you can rely on:

- All units line tested
- Performance tested
- 800 hour heat stress test
- 2000 hour endurance test

World Leaders in Heat Pump Technology

Since releasing their first wall mounted split system heat pump in 1968, Mitsubishi Electric has been a world leader in heat pump technology. Staying at the forefront of technology is of utmost importance to Mitsubishi Electric. Their commitment to rigorous factory testing and continuous investment in R&D ensures products are of the highest quality and feature superior technology.

Evaluation testing starts with replicating transportation conditions, with drop and vibration tests performed to ensure units remain protected during shipment. To ensure heat pumps perform under the harshest of environmental conditions when they are needed most, they are operated and tested in a room that simulates both freezing climates and tropical storms. Safety components are also tested by replicating abnormal conditions such as combustion; ensuring units do not react in an unexpected or unsafe manner.

For New Zealand specifically, this commitment to testing has led to industry-leading products being introduced that perform exceptionally well in our harsh and varied climate. New Zealanders can trust and rely on Mitsubishi Electric engineering to keep them warm when it matters most.





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For more information on Mitsubishi Electric Heat Pumps please visit www.mitsubishi-electric.co.nz or call our Customer Service Team on 0800 784 382

