



Hybrid VRF Catalogue

Next Generation 2-Pipe VRF Heat Recovery Systems



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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.

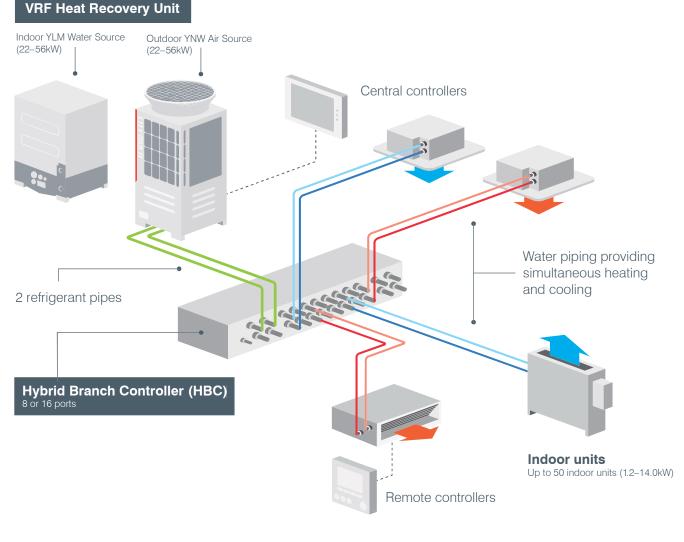




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The Hybrid VRF Advantage

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 is 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

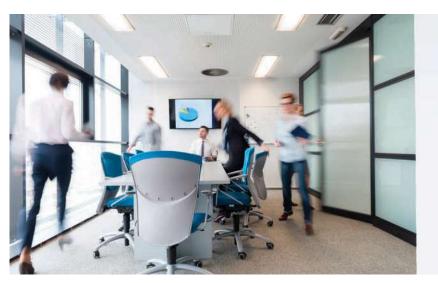
Customer comfort is paramount with legislation focusing attention on energy use and seeking to limit the use of refrigerant in occupied spaces. Hybrid VRF minimises the need for leak detection in the occupied space, thereby reducing the total cost of the system and ongoing maintenance of the leak detection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

Hospitals and Medical Centres

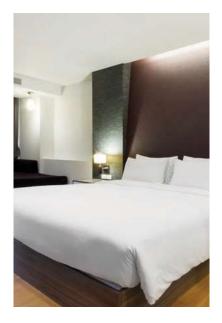
With regards to patient health and safety, this system has no refrigerant in the indoor units and can deliver mild off-coil temperatures through the Water-Based Hybrid VRF indoor units. HVRF mitigates the need for leak detectors in consulting rooms and provides a solution to critical refrigerant limits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

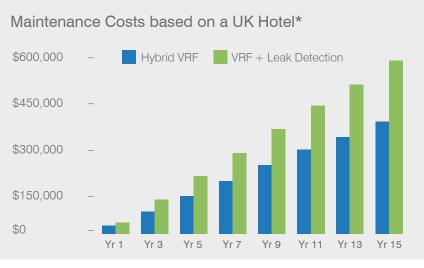
Minimise the Need for Leak Detection Systems

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 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.

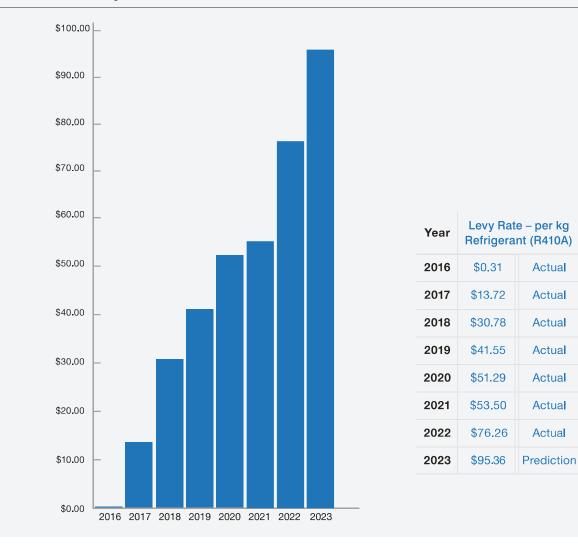
ETS – Emissions Trading Scheme

In New Zealand specifically, the ETS 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 costs as it uses less refrigerant in the total system.



R410A SGG Levy Rates





Actual

Actual

Actual

Actual

Actual

Actual

Actual

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.

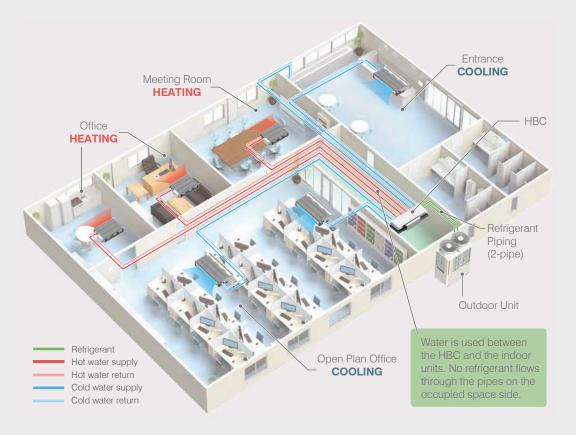


Image for representation only

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

HVRF is based on a 2-Pipe Heat Recovery VRF System but uses water as a heat exchange medium between the Hybrid Branch Controller and the indoor units.

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

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

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

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

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

Quiet Operation Through Water Based Fan Coils

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

High Sensible Cooling and Stable Room Temperatures

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

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

Intuitive Load Adjusting

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

Heat Recovery Defrost Method

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





Hybrid VRF Case Studies

Rototuna Junior High School – NZ's First Hybrid VRF System

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 was to upgrade the existing Rotorua Library building into a new state of the art, centrally located, shared community facility comprised 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

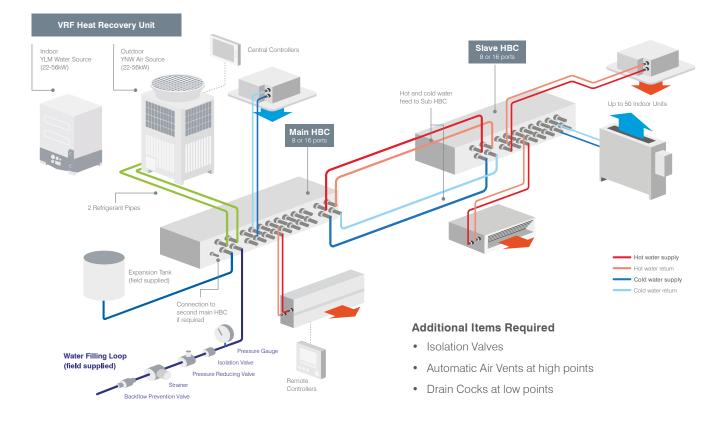
The best solution to meet the challenges was to select HVRF systems that provide heating and cooling to many of the mixed-use library and health hub areas. The HVRF Systems were selected by the consultant for the principle reason of having less extreme air-off temperatures, and slower temperature change 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 DC Inverter Driven Water Pump.

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

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

C - Valve Block

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

This Valve Block has two features;

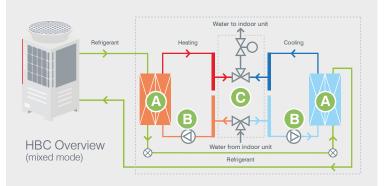
Firstly, it has the choice of selecting between the two flow headers.

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

Connection to slave HBC

Water flow/return to indoor units 8 or 16 port options ava<u>ilable</u>

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

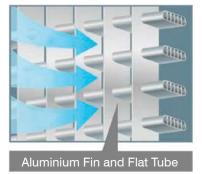


HVRF Air Source Outdoor Unit

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!







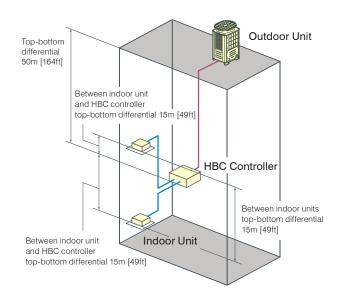
Inverter Compressor

Available on EP High COP Models Only

Model Lineup

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]
Ver	rtical Differentials Between Units	Maximum meters [Feet]
R	Heat source/HBC controller	50 [164]
R	HBC/heat source (heat source unit above 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
ß	HBC/HBC controller	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.

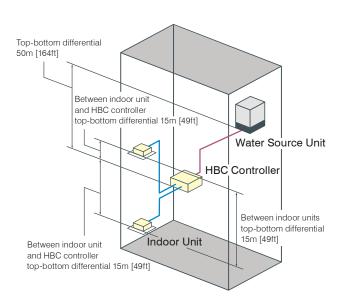




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*4 11	New to Alexandra Radio has to deve to be a set to see the	4000/ - (

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Hybrid Branch Circuit (HBC) Controller

The HBC is used for the connection of the outdoor 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	-HBC	Sub	НВС
Model	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				•	•	•	•	•	•	•	•	•	•
Ceiling Concealed High Static Pressure	PEFY-WL VMHS-A							•	•	•	•	•	•	•
4-Way Airflow Cassette	PLFY-WL VEM-E	- mail			•	•	•	•	•	•		•	•	•
Compact Cassette	PLFY-WL VFM-E		•	•	•	•	•	•						
Wall Mounted	PKFY-WL VLM-E		•	•	•	•	•	•						
waii Mounted	PKFY-WL VKM-E								•	•		•		
Floor Standing Concealed	PFFY-WP VLRMM-E				•	•	•	•	•					

Controller Range

Remote Controllers









• On-off

LCD

•

Temperature control

Dual set point option

Error information

· Occupancy sensor

Energy saving

Brightness sensor

Touch panel and backlit

 Energy saving Backlit LCD screen

- Standard Controller PAR-40MAA
 - Operation lock
 - Weekly schedule
 - Temperature range setting

Advanced M-NET Controller PAR-U02MEDA

- Dual set point option
 - LED indicator
 - . Temperature and humidity sensor
 - Weekly schedule
 - Error information

Simplified Controller PAC-YT52CRA

- 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.

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Patented Hybrid VRF Technology

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





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 $Power input$ BTU/h $76,400$ 99.2 $Power input$ kW 6.54 9.92 $Current input$ A $11.0-10.4-10.1$ $16.7-15.9-13$ EER kW/kW 3.42 2.82 $Temp. Range *3$ $Indoor$ $W.B.$ $15.0-24.0^\circ C (59-75^\circ F)$ $15.0-24.0^\circ C (59-75^\circ F)$ $Capacity (Nominal) *2$ kW 85.300 $-5.0-52.0^\circ C (23-126^\circ F)$ $-5.0-52.0^\circ C (23-126^\circ F)$ $Capacity (Nominal) *2$ kW 85.300 107.500	
Capacity (Nominal)*1 BTU/h 76,400 95,500 Power input KW 6,54 9,92 Cooling Current input A 11.0-10.4-10.1 16.7-15.9-15 EER KW / KW 3,42 2.82 Temp. Range 3 Indoor W.B. 15.0~24.0°C (59~75°F) 15.0~24.0°C (59 Outdoor D.B. -5.0~52.0°C (23~126°F) -5.0~52.0°C (23 Capacity (Nominal)*1 KW 85,300 31.5	
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Capacity (Nominal) *2 BTU / h 85,300 107,500	1201)
Power input kW 6.49 10.06	
Heating Current input A 10.9-10.4-10.0 16.9-16.1-15	5 5
COP kW / kW 3.85 3.13	J.J
) 01°E)
Temp range *3	,
Outdoor W.B. -20.0~15.5°C (-4~60°F) -20.0~15.5°C (-4~60°F) Table constitution To a form of a form o	/
Indoor unit connectable Total capacity 50~150% of outdoor unit capacity 50~150% of outdoor	
Model / Quantity */W(P)10~125, WL10~50/1~30 W(P)10~125, WL10-	
Sound pressure level (measured in anechoic room)*4 dB < A> 59.0/59.0 60.5/61.0	
Sound power level (measured in anechoic room) *4 dB <a> 76.0/78.0 78.0/80.0	
Refrigerant piping diameter High pressure mm (in.) 15.88 (5/8) Brazed 19.05 (3/4) Br	
Low pressure mm (in.) 19.05 (3/4) Brazed 22.2 (7/8) Brazed	
Type x Quantity Propeller fan x 1 Propeller fan	1x1
m3/min 170 185	
Air flow rate L/s 2,833 3,083	
Fan cfm 6,003 6,532	
Control, Driving mechanism Inverter-control, direct-driven by motor Inverter-control, direct-	driven by motor
Motor output kW 0.92 x 1 0.92 x 1	
External static press. *5 0 Pa (0 mmH20) 0 Pa (0 mmH	120)
Type Inverter scroll hermetic compressor Inverter scroll hermetic	c compressor
Starting method Inverter Inverter	
Compressor Motor output kW 3.7 5.5	
Case heater kW - (- V) - (- V)	
External finish Pre-coated galvanised steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" sim<="" td=""><td>ilar></td></munsell>	ilar>
mm 1 858 (1708 without leasts v 200 v 7/10	
External dimension HxWxD in. 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16	
High pressure protection High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
Protection Inverter circuit (COMP./FAN) Over-heat protection, Over-current protection	
devices Compressor	
Fan motor	
Type/GWP R410A / 2088 R410A / 20	88
	00
Factory charged	
Refrigerant Max additional Weight kg 31.8 37.8	
charge CO2 equivalent *6 t 66.40 78.93	
Total charge Weight kg 37.0 43.0	
CO2 equivalent *6 t 77.26 89.78	
Net weight kg (lbs) 219 (483) 228 (503))
Heat exchanger Salt-resistant cross fin & copper tube	
Defrosting method 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 :

- 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

- 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-A1 (-BS)	PURY-P350Y	NW-A1 (-BS)		
Number of H	IBC controller			Single HBC	Double HBC	Single HBC	Double HBC		
Power sourc				0	-400-415 V 50/60 Hz	3-phase 4-wire 380-			
			kW		3.5	40.0			
	Capacity (Nomina	al) *1	BTU / h		,300		136,500		
	Power input		kW	13.13	11.12	16.26	13.24		
Cooling	Current input		A	22.1-21.0-20.2	18.7-17.8-17.1	27.4-26.0-25.1	22.3-21.2-20.4		
ooning	EER		kW/kW	2.55	3.01	2.46	3.02		
	LLII	Indoor	W.B.		C (59~75°F)	15.0~24.0°C			
	Temp. Range *3	Outdoor	D.B.		. ,		()		
		UUUUUI	kW		C (23~126°F) 7.5	-5.0~52.0°C 45			
	Capacity (Nomina	al) *2							
	Denneliseret		BTU / h		,000	153,			
	Power input		kW	12.71	11.94	13.88	12.85		
leating	Current input		A	21.4-20.3-19.6	20.1-19.1-18.4	23.4-22.2-21.4	21.6-20.6-19.8		
	COP		kW / kW	2.95	3.14	3.24	3.50		
	Temp. range *3	Indoor	D.B.		C (59~81°F)	15.0~27.0°C			
	i shipi tango o	Outdoor	W.B.	-20.0~15.5°	()	-20.0~15.5°0	()		
ndoor unit c	connectable	Total capacity			door unit capacity	50~150% of outd			
		Model / Quantity		W(P)10~125, V	VL10~50/2~45	W(P)10~125, W	L10~50/2~50		
	sure level (measured		4 dB <a>	61.0,	/67.0	62.5/	64.0		
Sound powe	und power level (measured in anechoic room) *4 dB <a>		80.0/86.0		81.0/83.0				
ofrigorant r	piping diameter	High pressure	mm (in.)	19.05 (3/4) Brazed		19.05 (3/4) Brazed			
ven igeranit p	orphing utainteter	Low pressure	mm (in.)	22.2 (7/8	B) Brazed	28.58 (1-1)	(8) Brazed		
	Type x Quantity			Propelle	er fan x 1	Propelle	r fan x 2		
			m3/min	24	40	25	0		
Fan	Air flow rate		L/s	4,0	000	4,1	67		
			cfm	8.4	174	8.8	28		
	Control, Driving r	nechanism		Inverter-control, dir		Inverter-control, dire			
	Motor output		kW	0.92 x 1		0.46 x 2			
	External static pro	ess *5		0.92 × 1 0 Pa (0 mmH20)		0 Pa (0 n			
	Туре				metic compressor	Inverter scroll hermetic compressor			
	Starting method					Inverter			
Compressor	Motor output		kW	Inverter 7.3		8.7			
	Case heater		kW	- (-		- (-			
xternal finis			I. F.F			ing for -BS type) <munsell 1.1="" 3y="" 7.8="" or<="" td=""><td>/</td></munsell>	/		
Alemai mii	511		mm		•				
xternal dim	iension HxWxD		in.	1,858 (1,798 witho	• /	1,858 (1,798 without			
	Ulinh nanona na	-testion		/ 3-3/ 10 (70-13/ 10 WILIIOL	ıt legs) x 36-1/4 x 29-3/16	73-3/16 (70-13/16 without	l leys) x 48-1/8 x 29-3/10		
	High pressure pro					sure switch at 4.15 MPa (601 psi)			
Protection	Inverter circuit (C	UMP./FAN)			Over-heat protection,	Over-current protection			
levices	Compressor				-	-			
	Fan motor				-		10000		
	Type/GWP	147 - 1 -			/ 2088	R410A			
	Factory charged	Weight	kg		.2	8.			
	, , ,	CO2 equivalent *6			.86	16.			
Refrigerant	Max additional	Weight	kg		7.8	41			
	charge	CO2 equivalent *6			.93	86.			
	Total charge	Weight	kg		3.0	49.3			
	rotar onargo	CO2 equivalent *6	t	89	.78	102	94		
let weight			kg (lbs)	232	(512)	277 (277 (611)		
Heat exchan	ger				Salt-resistant cros	ss fin & copper tube			
Defrosting m	nethod				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 :

- 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.

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	Model			PURY-P400YNW-A1 (-BS)	PURY-P450YNW-A1 (-BS)	PURY-P500YNW-A1 (-BS)	
ower source					3-phase 4-wire 380-400-415 V 50/60 Hz		
		N	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	24.03	
cooling	Current input		A	28.1-26.7-25.7	30.2-28.7-27.7	40.5-38.5-37.1	
5	EER		kW / kW	2.70	2.79	2.33	
		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	14.88	17.39	,	
leating	Current input		A	25.1-23.8-23.0	29.3-27.8-26.8		
louting	COP		kW / kW	3.36	3.22		
	001	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	H.D.	50~150% of outdoor unit capacity	50~150% of outdoor unit capacity	()	
ndoor unit co	onnectable	Model / Quantity		W(P)10~125, WL10~50/1~40	W(P)10~125, WL10~50/1~45	213,000 19.09 32.2-30.6-29.5 3.30 15.0~27.0°C (59~81°F) -20.0~15.5°C (-4~60°F) 50~150% of outdoor unit capacity W(P)10~125, WL10~50/1~50 63.5/64.5 82.0/84.0 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed Propeller fan x 2 295 4.917 10.416 Inverter-control, direct-driven by motor 0.92 x 2 0 Pa (0 mmH20) Inverter scroll hermetic compressor Inverter 14.2 - (- V)	
Sound process	ire level (measured	in anechoic room)*4	dB < 4 >	65.0/69.0	65.5/70.0		
	level (measured in	,	dB < A >	83.0/88.0	83.0/89.0	,	
Jouriu power	16461 (1116836166111	High pressure	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed		
Refrigerant pi	ping diameter	Low pressure	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	()	
	Type x Quantity		111111 (111.)	Propeller fan x 2	Propeller fan x 2	(.)	
	Type x quantity		m3/min	315			
Air flow Fan	Air flow roto		L/s		315		
	AIT HOW Fale			5,250	5,250	1	
-911	Original Delater	Cfm Driving mechanism		11,123	11,123	,	
	, ,	Control, Driving mechanism		Inverter-control, direct-driven by motor	Inverter-control, direct-driven by motor		
	Motor output	**	kW	0.46 x 2	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			Inverter	Inverter		
	Motor output		kW	11.7	12.4		
	Case heater		kW	- (- V)	- (- V)		
External finis	h			· · ·	steel sheets (+powder coating for -BS type) <munsell< td=""><td></td></munsell<>		
Eutoroal dire -	union Hullin		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	
xiernai dime	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 pr	ntection			48-1/8 X 29-3/16 pressure sensor, High pressure switch at 4.15 MPa (601		
Protection	Inverter circuit (C			Tiigii	Over-heat protection, Over-current protection	psij	
devices	Compressor	OWIT./TAN)			over-near protection, over-current protection		
1011003	Fan motor			-	-	-	
	Type/GWP			- R410A / 2088	- R410A / 2088	- R410A / 2088	
	Type/ dwr	Woight	ka				
	Factory charged	Weight	kg	8.0	10.8	10.8	
) ofriga	Marcal 192 - 1	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	
	, , , , , , , , , , , , , , , , , , ,	CO2 equivalent *6		115.47	115.47	116.93	
Vet weight			kg (lbs)	277 (611)	296 (653)	340 (750)	
Heat exchang					Salt-resistant cross fin & copper tube		
Defrosting me	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:
 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.

- 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-A1 (-BS)	PURY-EP250YNW-A1 (-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
			kW	22.4	28.0
	Capacity (Nomin	al) *1	BTU / h	76,400	95,500
	Power input		kW	5.84	8.77
Cooling	Current input		A	9.9-9.3-9.0	14.8-14.0-13.5
0	EER		kW / kW	3.83	3.19
	T D *0	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
	Temp. Range *3	Outdoor	D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)
	Canacity (Marrin	Connective (Marringel) *0		25.0	31.5
	Capacity (Noriin	apacity (Nominal) *2		85,300	107,500
	Power input		kW	6.49	9.84
Heating	Current input		A	10.9-10.4-10.0	16.6-15.7-15.2
	COP		kW / kW	3.85	3.20
	Temp	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)
Indoor unit c	oppostable	Total capacity		50~150% of outdoor unit capacity	50~150% of outdoor unit capacity
IIIuoor unit c	onnectable	Model / Quantity		W(P)10~125, WL10~50/1~30	W(P)10~125, WL10~50/1~37
Sound press	ure level (measured	in anechoic room)*4	dB <a>	59.0/59.0	60.5/61.0
Sound power	r level (measured in	anechoic room) *4	dB <a>	76.0/78.0	78.0/80.0
Pofrigorant n	piping diameter	High pressure	mm (in.)	15.88 (5/8) Brazed	19.05 (3/4) Brazed
neniyeranı p	nping ulameter	Low pressure	mm (in.)	19.05 (3/4) Brazed	22.2 (7/8) Brazed
	Type x Quantity	Propeller fan x 1			
		Air flow rate		170	185
	Air flow rate			2,833	3,083
Fan				6,003	6,532
	Control, Driving r	Control, Driving mechanism		Inverter-control, direct-driven by motor	Inverter-control, direct-driven by motor
	Motor output		kW	0.92 x 1	0.92 x 1
	External static pr	ess. *5		0 Pa (0 mmH20)	0 Pa (0 mmH20)
	Туре			Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
Compressor	Starting method		Inverter		Inverter
001110163301	Motor output		kW	3.6	5.5
	Case heater		kW	- (- V)	- (- V)
External finis	sh			Pre-coated galvanised steel sheets (+powder coa	ting for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>
Evtornal dim	ension HxWxD		mm	1,858 (1,798 witho	ut legs) x 920 x 740
	CIISIOII HAWAD		in.	73-3/16 (70-13/16 withou	ıt legs) x 36-1/4 x 29-3/16
	High pressure pr	otection		High pressure sensor, High press	sure switch at 4.15 MPa (601 psi)
Protection	Inverter circuit (C	OMP./FAN)		Over-heat protection, 0	Over-current protection
devices	Compressor			-	-
	Fan motor			-	-
	Type/GWP			R410A / 2088	R410A / 2088
	Factory charged	Weight	kg	5.2	5.2
	r autory unarged	CO2 equivalent *6		10.86	10.86
Refrigerant	Max additional	Weight	kg	28.3	34.3
	charge	CO2 equivalent *6		59.09	71.62
	Total charge	Weight	kg	33.5	39.5
	iotai onai go	CO2 equivalent *6		69.95	82.48
Net weight			kg (lbs)	219 (483)	228 (503)
Heat exchang	•			Salt-resistant cross	fin & aluminium tube
Defrosting m	nethod			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:

- 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	OYNW-A1 (-BS)	PURY-EP350	YNW-A1 (-BS)		
Number of H	BC controller			Single HBC	Double HBC	Single HBC	Double HBC		
Power source	е			3-phase 4-wire 380	-400-415 V 50/60 Hz	3-phase 4-wire 380-	-400-415 V 50/60 Hz		
	Conceiler (Marris	al) *1	kW	3	3.5	40	0.0		
	Capacity (Nomin	ai) " i	BTU/h	114.300		136	,500		
	Power input		kW	12.05	10.24	14.76	12.01		
Cooling	Current input			20.3-19.3-18.6	17.2-16.4-15.8	24.9-23.6-22.8	20.2-19.2-18.5		
5	EER		A kW/kW	2.78	3.27	2.71 3.33			
		Indoor	W.B.		°C (59~75°F)		C (59~75°F)		
	Temp. Range *3	Outdoor	D.B.		C (23~126°F)		C (23~126°F)		
			kW		7.5		5.0		
	Capacity (Nomin	al) *2	BTU / h		3.000		.500		
	Power input		kW.	11.71	11.12	13.88	12.85		
Heating	Current input		A	19.7-18.7-18.1	18.7-17.8-17.1	23.4-22.2-21.4	21.6-20.6-19.8		
	COP		kW / kW	3.20	3.37	3.24	3.50		
		Indoor	D.B.		C (59~81°F)		C (59~81°F)		
	Temp. range *3	Outdoor	W.B.		°C (-4~60°F)		°C (-4~60°F)		
		Total capacity					door unit capacity		
Indoor unit c	onnectable	Model / Quantity			50~150% of outdoor unit capacity W(P)10~125, WL10~50/2~45		VL10~50/1~35		
Sound press	ure level (measured	in anechoic room)*4	dB < A>				/64.0		
	r level (measured in	/	dB <a>	61.0/67.0 80.0/86.0			/83.0		
		High pressure	mm (in.)		/4) Brazed				
Refrigerant p	iping diameter	Low pressure	mm (in.)	· · · · · · · · · · · · · · · · · · ·	8) Brazed	19.05 (3/4) Brazed 28.58 (1-1/8) Brazed			
	Type x Quantity	2011 produito		,	er fan x 1		Propeller fan x 2		
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			m3/min		40		50		
Air flow rat	Air flow rate		L/s		000		167		
Fan	711 HOW Fato	in non futo			474		328		
ιαπ	Control, Driving	mechanism	cfm		rect-driven by motor	1	rect-driven by motor		
	Motor output	nconanisin	kW		,		6 x 2		
	External static pr	000 *5	I. V V	0.92 x 1		0.40 X 2 0 Pa (0 mmH20)			
	Type	633. 0		0 Pa (0 mmH20) Inverter scroll hermetic compressor		Inverter scroll hermetic compressor			
	Starting method				erter	Inverter scron hermetic compressor			
Compressor	Motor output		kW		7.3		.7		
	Case heater		kW		r.o /- V)		- V)		
External finis			IV V V		· /) - (ating for -BS type) <munsell 1="" 5y="" 8="" or="" s<="" td=""><td>1</td></munsell>	1		
EVIGUIIGI UUUS	011		mm		ated galvanised steel sneets (+powder co out legs) x 920 x 740		similar> it legs) x 1,240 x 740		
External dim	ension HxWxD		in.		ut legs) x 36-1/4 x 29-3/16		07		
	High pressure pr	otaction	111.	/ 3-3/ 10 (/ U-13/ 10 WILIIO	• /	73-3/16 (70-13/16 withou ssure switch at 4.15 MPa (601 psi)	11 18Y9) x 40-1/0 x 23-3/10		
Drotootion	Inverter circuit (C					Over-current protection			
Protection devices	Compressor	JOINT ./ FAIN)			over-neat protection,	over-current protection			
4011000	Fan motor				- -		-		
	Type/GWP						- / 2088		
	iype/Gwr	Weight	kg		5.2		.0		
	Factory charged								
Rofrigoropt	Manadeller	CO2 equivalent ^b t 10.86				.70 9.0			
Refrigerant	Max additional charge								
	ulaiye	CO2 equivalent *6					.43		
	Total charge Weight		kg		9.5		7.0		
Mak wai a bi		CO2 equivalent *6			2.48		.14		
Net weight			kg (lbs)	230	(508)	275	(607)		
Heat exchanç	0					s fin & aluminium tube			
Defrosting m	lethod				Auto-Detrost Mode (Rever	sed 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-A1 (-BS)	PURY-EP450YNW-A1 (-BS)	PURY-EP500YNW-A1 (-BS)
Power source	e				3-phase 4-wire 380-400-415 V 50/60 Hz	
	0		kW	45.0	50.0	56.0
	Capacity (Nomin	al) ^1	BTU / h	153,500	170,600	191,100
	Power input		kW	14.28	16.83	21.22
Cooling	Current input		A	24.1-22.9-22.0	28.4-26.9-26.0	35.8-34.0-32.8
5	EER		kW / kW	3.15	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	19.74
Heating	Current input		A	23.8-22.6-21.8	28.4-27.0-26.0	33.3-31.6-30.5
	COP		kW / kW	3.54	3.32	3.19
		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	H.D.	50~150% of outdoor unit capacity	50~150% of outdoor unit capacity	50~150% of outdoor unit capacity
ndoor unit co	onnectable	Model / Quantity		W(P)10~125, WL10~50/1~40	W(P)10~125, WL10~50/1~45	W(P)10~125, WL10~50/1~50
ound press	ure level (measured	in anechoic room)*4	dB < 4 >	w(P)10~125, wL10~50/1~40 65.0/69.0	65.5/70.0	63.5/64.5
	r level (measured in	/	dB < A >	83.0/88.0	83.0/89.0	82.0/84.0
ounu power	icver (incasureu in	High pressure	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed
Refrigerant pipi	iping diameter	Low pressure		28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
	Type x Quantity	Low pressure	mm (in.)			
			m3/min	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
			L/s	315	315	295
	AIT HOW Tale	Air flow rate		5,250	5,250	4,917
an	cfm		CITTI	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 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	10.8	11.7	13.8
	Case heater		kW	- (- V)	- (- V)	- (- V)
xternal finis	sh			· · ·	d steel sheets (+powder coating for -BS type) <munsel< td=""><td></td></munsel<>	
whore allows	onoion UvW/vD		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 ulme	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 pr	ntection			48-7/8 X 29-3/16 pressure sensor, High pressure switch at 4.15 MPa (601	
rotection	Inverter circuit (C			Підіі	Over-heat protection, Over-current protection	hoil
rotection levices	Compressor					
	Fan motor			-	-	-
	Type/GWP			- R410A / 2088	- R410A / 2088	- R410A / 2088
	Type/ Givi	Weight	kg	8.0	10.8	10.8
	Factory charged	CO2 equivalent *6		16.70	22.55	22.55
efrigerant	May additional	Weight		39.0	22.55	45.2
eniyeranî	Max additional charge	CO2 equivalent *6	kg t		44.7 93.33	
	ulaiye			81.43		94.38
	Total charge	Weight	kg	47.0	55.5	56.0
Lat	-	CO2 equivalent *6		98.14	115.88	116.93
let weight			kg (lbs)	276 (609)	301 (664)	346 (763)
leat exchang	, ,				Salt-resistant cross fin & copper tube	
Defrosting m	ethod				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	e			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	
	Or a still differentia	-11 *4	kW	22.4	28.0	
	Capacity (Nomin	al) ^1	BTU / h	76.400	95,500	
	Power input		kW	3.97	5.44	
Cooling	Current input		A	6.7-6.3-6.1	9.1-8.7-8.4	
	EER		kW / kW	5.64	5.14	
	T D *0	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	
	Temp. Range *3	Outdoor	D.B.	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)	
	0	11 *0	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	
2	COP		kW / kW	6.18	5.82	
	T	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	
ndoor unit c	onnectable	Model / Quantity		W(P)10~125, WL10~50/1~30	W(P)10~125, WL10~50/1~37	
Sound pressi	ure level (measured		dB <a>	46.0	48.0	
		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	
	Water flow rate		m3/min	5.76	5.76	
			L/min	96	96	
Circulating			cfm	3.4	3.4	
Vater	Pressure Drop		kPa	24	24	
	Operating Volum	Operating Volume Range		3.0 ~ 7.2	3.0 ~ 7.2	
	Туре	0		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	
	Starting method			Inverter	Inverter	
Compressor	Motor output		kW	4.8	6.2	
	Case heater		kW	-	-	
External finis	sh			Galvanised steel sheets	Galvanised steel sheets	
			mm	1.100 x 880 x 550	1.100 x 880 x 550	
xternal dim	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	otection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, high pressure switch at 4.15 MPa (601 psi)	
Protection	Inverter circuit (C			Over-heat protection, Over-current protection	Over-heat protection, over-current protection	
levices	Compressor	,		Over-heat protection	Over-heat protection	
	Type x Original C	harge		R410A/2088	R410A/2088	
a falsa a s	Factory charged		kg	5.0	5.0	
Refrigerant	Maximum additio	onal charge	kg	28.0	30.0	
	Total charge	*	kg	33.0	35.0	
Vet weight			kg (lbs)	170 (375)	170 (375)	
	Туре		/	plate type	plate type	
Heat	Water volume in	plate	L	5.0	5.0	
exchanger	Water pressure max		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.

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

Water Source Unit





Model				PQRY-P3	00YLM-A1	PQRY-P3	PQRY-P350YLM-A1		
Number of HI	BC 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		
	Conceller (Marris	al) *1	kW	. 33	3.5	. 40	.0		
	Capacity (Nomin	al) " I	BTU / h	114,	300	136,500			
	Power input		kW	7.55	6.71	9.98	8.72		
Cooling	Current input	Current input		12.7-12.1-11.6 11.3-10.7-10.3		16.8-16.0-15.4	14.7-13.9-13.4		
	EER		kW / kW	4.43 4.99		4.00	4.58		
	T D *0	Indoor	W.B.	15.0~24.0°C	C (59~75°F)	15.0~24.0°C	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)		
	0 11 01 1		kW	37	.5	45	.0		
	Capacity (Nomin	al) ^2	BTU / h	128.	.000	153,	500		
	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		
5	COP		kW / kW	5.25	5.52	5.07	5.45		
		Indoor	D.B.	15.0~27.0°C		15.0~27.0°C			
	Temp. range *3	Outdoor	W.B.	10.0~45.0°C		10.0~45.0°C	. ,		
		Total capacity		50~150% of heat s		50~150% of heat s	1 /		
Indoor unit connectable		Model / Quantity		W(P)10~125, WL10~50/2~45		W(P)10~125, WL10~50/2~50			
Sound pressi	ure level (measured	,	dB <a>	54.0		52			
High pressure		mm (in.)	19.05 (3/		22.2 (7/8				
Ketrigerant p	iping diameter	Low pressure	mm (in.)	22.2 (7/8	,	28.58 (1-1)	/		
			m3/min	5.		7.2			
	Water flow rate		L/min	9		12			
Circulating			cfm	3.		4.			
Water	Pressure Drop		kPa		4	4			
	Operating Volum	e Range	m3/h	3.0 -		4.5 ~			
	Туре	J		Inverter scroll her		Inverter scroll hermetic compressor			
_	Starting method			Inve		Inverter			
Compressor	Motor output		kW	7.		9.5			
	Case heater		kW	-		_			
External finis				Galvanised		Galvanised			
			mm	1,100 x 8		1,450 x 8			
External dime	ension HxWxD		in.	43-5/16 x 34-1		57-1/8 x 34-11/16			
	High pressure pr	otection		High pressure sensor, High press		High pressure sensor, high press			
Protection	Inverter circuit (0			Over-heat protection, C	()	Over-heat protection, o	(1 /		
devices	Compressor	7		Over-heat		Over-heat			
	Type x Original C	harge		R410A		R410A			
	Factory charged	~	kg	5.		6.			
Refrigerant		Maximum additional charge		31		46			
	Total charge	v	kg kg	36		52			
Net weight	<u>.</u>		kg (lbs)	170 (214 (
	Туре		51/		e type	plate	,		
Heat	Water volume in	plate	L	5.		5.			
exchanger	Water pressure n		MPa	2		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.

Water Source Unit



Model				PQRY-P400YLM-A1	PQRY-P450YLM-A1	PQRY-P500YLM-A1
Power sourc	е			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
	Oracity (Newsite	1) ¥4	kW	45.0	50.0	56.0
	Capacity (Nomina	1) " I	BTU / h	153,500	170,600	191,100
	Power input		kW	10.05	12.05	14.58
Cooling	Current input		A	16.9-16.1-15.5	20.3-19.3-18.6	24.6-23.3-22.5
	EER		kW / kW	4.47	4.14	3.84
	Temp Dense *0	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
	Temp. Range *3	Outdoor	D.B.	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)
	Canacity (Namin	Capacity (Nominal) *2		50.0	56.0	63.0
	Capacity (Nomina	ll) Z	BTU / h	170,600	191,100	215,000
	Power input		kW	9.45	11.11	13.07
Heating	Current input		A	15.9-15.1-14.6	18.7-17.8-17.1	22.0-20.9-20.2
	COP		kW/kW	5.29	5.04	4.82
	T *0	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.	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)
La la company		Total capacity		50~150% of heat source unit capacity	50~150% of heat source unit capacity	50~150% of heat source unit capacity
Indoor unit c	connectable	Model / Quantity		W(P)10~125, WL10~50/1~40	W(P)10~125, WL10~50/1~45	W(P)10~125, WL10~50/1~50
Sound press	ure level (measured	in anechoic room)	dB <a>	52.0	54.0	54.0
		High pressure	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed
Retrigerant p	piping diameter	Low pressure	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
	Water flow rate		m3/min	7.20	7.20	7.20
			L/min	120	120	120
Circulating Water			cfm	4.2	4.2	4.2
water	Pressure Drop	Pressure Drop		44	44	44
	Operating Volume	Operating Volume Range		4.5 ~ 11.6 4.5 ~ 11.6		4.5 ~ 11.6
	Туре			Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
0	Starting method			Inverter	Inverter	Inverter
Compressor	Motor output		kW	10.7	11.6	13.0
	Case heater		kW	_	_	_
External finis	sh			Galvanised steel sheets	Galvanised steel sheets	Galvanised steel sheets
Enternal alles			mm	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550
External dim	iension HxWxD		in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16
Protection	High pressure pro	tection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, high pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
devices	Inverter circuit (C	OMP.)		Over-heat protection, Over-current protection	Over-heat protection, over-current protection	Over-heat protection, Over-current protection
	Compressor			Over-heat protection	Over-heat protection	Over-heat protection
	Type x Original Cl	narge		R410A/2088	R410A/2088	R410A/2088
Factory charge			kg	6.0	6.0	6.0
Refrigerant	Maximum additio	nal charge	kg	47.0	47.0	48.0
	Total charge		kg	53.0	53.0	54.0
Net weight			kg (lbs)	214 (472)	214 (472)	214 (472)
	Туре			plate type	plate type	plate type
Heat exchanger	Water volume in p	late	L	5.0	5.0	5.0
excitatinget	Water pressure m	ах	MPa	2.0	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.

HBC Controller



Main-HBC

Model					CI	MB-WM108V-	AA		CMB-WM1016V-AA				
Number of Brand	ch					8			16				
Power Source					1-pl	hase 220-230-2	40 V		1-phase 220-230-240 V				
Power Source				50 Hz			60	Hz		50 Hz		60) Hz
Power Input		Cooling	kW	0.45/0.46/0.47		0.45/0	46/0.47		0.45/0.46/0.47		0.45/0	.46/0.47	
(220/230/240)		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	А		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)		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 pressure	level (measured in	anechoic room)	dBA			41.0					41.0		
Applicable Temp	perature Range of I	nstallation Site	°C (D.B.)			0~32					0~32		
External Finish						Galvanised ste	el plate (Lower	part drain pan: P	re-coated galvar	nized sheets + p	owder coating)		
Connectable Out	Connectable Outdoor/Heat Source Unit					PURY-P200~	500YNW-A1(-B	S)/PURY-EP200-	~500YNW-A1(-E	3S)-PQRY-P200-	~500-YLM-A1		
Indoor Unit Capa	acity Connectable t	o 1 Branch			Mode	P80 or smaller	(Use optional jo	int pipe combinii	ng 2 branches wl	hen the total unit	capacity exceed	ls P81)	
External Dimens	ion H v W v D		mm	300 x 1,520 x 630			300 x 1,800 x 630						
External Dimens			in.		11-13/	'16 x 59-7/8 x 24	-13/16			11-13/	'16 x 70-7/8 x 24	-13/16	
				Connectable outdoor/heat source unit capacity									
	To Outdoor Unit / heat source unit			To P200	To P250/300	To P350	To P400	To P450/500	To P200	To P250/300	To P350	To P400	To P450/500
Refrigerant Piping Diameter		High Press. Pipe (0.D.)	mm (in.)	15.88 (5/8) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	15.88 (5/8) Brazed	19.05 (3/4) Brazed	15.88 (5/8) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	15.88 (5/8) Brazed	19.05 (3/4) Brazed
		Low Press. Pipe (0.D.)	mm (in.)	19.05 (3/4) Brazed	22.2 (7/8) Brazed	28.5 (1-1/8) Brazed	19.05 (3/4) Brazed	22.2 (7/8) Brazed	19.05 (3/4) Brazed	22.2 (7/8) Brazed	28.5 (1-1/8) Brazed	19.05 (3/4) Brazed	22.2 (7/8) Brazed
		To Main HBC	mm (in.)		1	5.88 (5/8) Braze	d			1	5.88 (5/8) Braze	ed	
					W/WP/WL10-50		W/WP/V	/L63-125		W/WP/WL10-50)	W/WP/V	VL63-125
Water Piping	Connection Cine	Inlet Pipe (I.D.)	mm (in.)		22		2	2		22		2	22
Diameter (To Indoor	Connection Size	Outlet Pipe (I.D.)	mm (in.)		22		2	2		22		2	22
Unit)	Field pipe size	Inlet Pipe (I.D.)	mm (in.)		20		3	80		20		3	30
'	i iciu pipe size	Outlet Pipe (I.D.)	mm (in.)		20		30			20		3	30
Field Drain Pipe	Size		mm (in.)			0.D. 32 (1-1/4)					0.D. 32 (1-1/4)		
Net Weight			kg (lbs)		86 (19	0) [96 (212) with	n water]		98 (217) [111 (245) with water]				
Standard Attach	ment Accessory			Dra	in Connection pi	pe (with flexible	hose and insula	tion)	Drain Connection pipe (with flexible hose and insulation)				
Optional Parts						-					-		

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 Databook and the Installation Manual).

*R32 is flammable, and certain restrictions apply to the installation of units. 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				СМВ-WM	108V-AB	CMB-WM1016V-AB		
Number of Bra	anch			8		16		
Power Source				1-phase 220	-230-240 V	1-phase 220)-230-240 V	
T OWET OUTER				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	D)	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	D)	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 (measured	d in anechoic room)	dBA	-			-	
Applicable Te	mperature Range (of Installation Site	°C (D.B.)	0~;	32	0~32		
External Finis	h			Galvan	ised steel plate (Lower part drain pan: p	re-coated galvanised sheets + powder co	ating)	
Connectable	Outdoor Unit			-			-	
Indoor Unit Ca	apacity Connectab	le to 1 Branch		Model P80 or smaller (Use optional join total unit capacit		Model P80 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds P81)		
Extornal Dime	ension H x W x D		mm	300 x 1,52	20 x 630	300 x 1,520 x 630		
LAternal Dirit			in.	11-13/16 x 59-7	7/8 x 24-13/16	11-13/16 x 59-7/8 x 24-13/16		
	To Main HBC	Inlet Pipe (I.D.)	mm (in.)	20 (3	3/4)	20 (3/4)	
Water Piping		Outlet Pipe (I.D.)	mm (in.)	20 (3	3/4)	20 (3/4)	
Diameter	To Indoor Unit	Inlet Pipe (I.D.)	mm (in.)	20 (3	3/4)	20 (3/4)	
		Outlet Pipe (I.D.)	mm (in.)	20 (3	3/4)	20 (3/4)	
Field Drain Pi	Field Drain Pipe Size mm (in.)			0.D. 32	(1-1/4)	0.D. 32	(1-1/4)	
Net Weight			kg (lbs)	44 (98) [49 (10	9) with water]	53 (117) [62 (137) with water]		
Standard Atta	chment Accesso	ory		Drain Connection pipe (with f	lexible hose and insulation)	Drain Connection pipe (with flexible hose and insulation)		
Optional Parts	S			-				

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.

 $^{\star}\mbox{Please}$ 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.

 $^{\ast}\mbox{This}$ 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 Databook 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	
	Canacity (Namin	1) *4	kW	1.2	1.7	
Cooling	Capacity (Nomina	11) 1	BTU/h	4,100	5,800	
Cooling	Power input *2		kW	0.03	0.05	
	Current input*2		A	0.21	0.44	
	Canacity (Namin	1) *0	kW	1.4	1.9	
Hasting	Capacity (Nomina	11) 3	BTU/h	4,800	6,500	
Heating	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	
Enternal all			mm	200x790x700	200x790x700	
External di	mension 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)	19 (42)	19 (42)	
		Туре		Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	
Heat Excha	inger	Water Volume	L	0.4	0.7	
	Type $ imes$ Quantity			Sirocco fan x 2	Sirocco fan x 2	
	External Static Pressure *4		Ра	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>	
			mmH ₂ 0	<0.5> - 1.5 - <3.6> - <5.1>	<0.5> - 1.5 - <3.6> - <5.1>	
	Motor Type			DC Motor	DC Motor	
Fan	Motor Output		kW	0.096	0.096	
	Driving Mechanis	Driving Mechanism		Direct-driven by motor	Direct-driven by motor	
			m3/min	4.0 - 4.5 - 5.0	5.0 - 6.0 - 7.0	
	Airflow Rate	(Low Mid High)	L/s	67 - 75 - 83	83 - 100 - 117	
			cf/m	141 - 159 - 177	177 - 212 - 247	
Sound pres	ssure level (measured c room)*2	(Low Mid High)	dB <a>	20-23-25	22-24-28	
Insulation	Material			EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	
Air Filter				PP Honeycomb fabric	PP Honeycomb fabric	
Protection	Device			Fuse	Fuse	
Connectab	le Outdoor Unit/HBC (Controller		Hybrid City Multi CMB-WM-V-AA, CMB-WM-V-AB	Hybrid City Multi CMB-WM-V-AA, CMB-WM-V-AB	
Water D'-	n Diamatas XE XC	Inlet	in.	Rc 3/4 screw	Rc 3/4 screw	
water Pipi	ng Diameter *5 *6	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)	
		у		Insulation pipe for water pipe, Washer, Drain hose, Tie Band	Insulation pipe for water pipe, Washer, Drain hose, Tie Band	
	art Control Box Repla	,		PAC-KE70HS-E	PAC-KE70HS-E	

Unit Converter: 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 extend 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 facory 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 sou	irce			1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz	
	Or a stiller (Alessia	-D. *4	kW	2.2	2.8	
0	Capacity (Nomina	al) " l	BTU/h	7,500	9,600	
Cooling	Power input *2		kW	0.051	0.06	
	Current input*2		A	0.49	0.51	
	Conscibu (Marrie	Capacity (Nominal) *3		2.5	3.2	
Unation	Capacity (Nomina	41) 3	BTU/h	8,500	10,900	
Heating	Power input *2		kW	0.031	0.04	
	Current input *2		A	0.38	0.4	
External f				Galvanised steel plate	Galvanised steel plate	
Eutornal	imonoion HuWuD		mm	200x790x700	200x790x700	
External dimension HxWxD			in.	7-7/8 x 31-1/8 x 27-9/16	7-7/8 x 31-1/8 x 27-9/16	
Vet Weigh	t		kg (lbs)	20 (45)	20 (45)	
Heat Exchanger Type Water Volume		Туре		Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	
		Water Volume	L	0.9	0.9	
	Type $ imes$ Quantity			Sirocco fan x 2	Sirocco fan x 2	
	Eutomal Chatia Dr	External Static Pressure *4		<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>	
	External Static Pr			<0.5> - 1.5 - <3.6> - <5.1>	<0.5> - 1.5 - <3.6> - <5.1>	
	Motor Type	Motor Type		DC Motor	DC Motor	
an	Motor Output		kW	0.096	0.096	
	Driving 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 pre in anecho	ssure level (measured c room)*2	(Low Mid High)	dB <a>	23-25-29	23-26-30	
Insulation	Material			EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	
Air Filter				PP Honeycomb fabric	PP Honeycomb fabric	
Protection	Device			Fuse	Fuse	
Connecta	ole Outdoor Unit/HBC C	Controller		Hybrid City Multi CMB-WM-V-AA, CMB-WM-V-AB	Hybrid City Multi CMB-WM-V-AA, CMB-WM-V-AB	
Notor Din	ng Diameter *5 *6	Inlet	in.	Rc 3/4 screw	Rc 3/4 screw	
ναιθι ΓΊμ	ny Diameter J 0	Outlet	in.	Rc 3/4 screw	Rc 3/4 screw	
ield Drai	n Pipe Size		mm (in.)	0.D.32 (1-1/4)	0.D.32 (1-1/4)	
Standard	Attachment 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	ace Kit		PAC-KE70HS-E	PAC-KE70HS-E	

Unit Converter: 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 extend 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 facory 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-WP32VMS1-E	PEFY-WP40VMS1-E	PEFY-WP50VMS1-E
Power source	e			1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz
	Canacity (Namina	1) *4	kW	3.6	4.5	5.6
Cooling	Capacity (Nomina	1) 1	BTU/h	12,300	15,400	19,100
Cooling	Power input *2		kW	0.071	0.090	0.090
	Current input*2		A	0.61	0.73	0.77
	Canacity (Namina	1) *0	kW	4.0	5.0	6.3
Heating	Capacity (Nomina	1) 3	BTU/h	13,600	17,100	21,500
Heating	Power input *2		kW	0.051	0.070	0.070
	Current input *2		A	0.50	0.62	0.66
External fini	sh			Galvanised steel plate	Galvanised steel plate	Galvanised steel plate
Estand de			mm	200x990x700	200x990x700	200x1,190x700
External din	nension 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 Exchar	iger	Water Volume L		1.0	1.0	1.7
	Type $ imes$ Quantity			Sirocco fan x 3	Sirocco fan x 3	Sirocco fan x 4
	External Static Pressure *4		Pa	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>
			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		kW	0.096	0.096	0.096
	Driving Mechanis	n		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
			m3/min	8.0 - 9.0 - 11.0	9.5 - 11.0 - 13.0	12.0 - 14.0 - 16.5
	Airflow Rate	(Low Mid High)	L/s	133 - 150 - 183	158 - 183 - 217	200 - 233 - 275
			cf/m	282 - 318 - 388	335 - 388 - 459	424 - 494 - 583
Sound press in anechoic	sure level (measured room)*2	(Low Mid High)	dB <a>	28-30-33	30-32-35	30-33-36
Insulation N	laterial			EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam
Air Filter				PP Honeycomb fabric	PP Honeycomb fabric	PP Honeycomb fabric
Protection D	levice			Fuse	Fuse	Fuse
Connectable	e Outdoor Unit/HBC C	ontroller		Hybrid City Multi CMB-WM-V-AA, CMB-WM-V-AB	Hybrid City Multi CMB-WM-V-AA, CMB-WM-V-AB	Hybrid City Multi CMB-WM-V-AA, CMB-WM-V-AB
Weber Dinin	Diamatas XE XC	Inlet	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw
water Pipini	g 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 At	tachment Accessory	/		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 par	t Control Box Repla	ce Kit		PAC-KE70HS-E	PAC-KE70HS-E	PAC-KE70HS-E

Unit Converter: 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: Om (0ft).
 The facory 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 sou	rce			1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz	
	Our stille (Newsite	- 1). ¥.4	kW	2.2	2.8	
Cooling	Capacity (Nomina	al) " l	BTU/h	7,500	9,600	
Cooling	Power input *2		kW	0.07	0.09	
	Current input*2		A	0.55	0.64	
	Conscibu (Marrie	Capacity (Nominal) *3		2.5	3.2	
lastas	Capacity (Nomina	al) "3	BTU/h	8,500	10,900	
Heating	Power input *2		kW	0.05	0.07	
	Current input *2		A	0.44	0.53	
External fi	nish			Galvanised steel plate	Galvanised steel plate	
To the second set			mm	250x700x732	250x900x732	
external d	imension 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 Weigh	t		kg (lbs)	21 (47)	26 (58)	
Last Frank		Туре		Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	
leat Exch	anger	Water Volume	L	0.7	1.0	
	Type $ imes$ Quantity			Sirocco fan x 1	Sirocco fan x 1	
	E-transf Otal's Decrement #4		Pa	<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>	
	Motor Type	Motor Type		DC Motor	DC Motor	
an	Motor Output		kW	0.085	0.085	
	Driving Mechanis	m		Direct-driven by motor	Direct-driven by motor	
			m3/min	7.5 - 9.0 - 10.5	10.0 - 12.0 - 14.0	
	Airflow Rate	(Low Mid High)	L/s	125 - 150 - 175	167 - 200 - 233	
			cf/m	265 - 318 - 371	353 - 242 - 494	
	ssure level (measured c room)*2	(Low Mid High)	dB <a>	23-26-29	23-27-30	
nsulation	Material			EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	
\ir Filter				PP Honeycomb fabric	PP Honeycomb fabric	
Protection	Device			Fuse	Fuse	
Connectal	ole Outdoor Unit/HBC (Controller		Hybrid City Multi CMB-WM-V-AA, CMB-WM-V-AB	Hybrid City Multi CMB-WM-V-AA, CMB-WM-V-AB	
Votor Dini	na Diamator *E *C	Inlet	in.	Rc 3/4 screw	Rc 3/4 screw	
valer Mpi	ng Diameter *5 *6	Outlet	in.	Rc 3/4 screw	Rc 3/4 screw	
ield Draii	n Pipe Size		mm (in.)	0.D.32 (1-1/4)	0.D.32 (1-1/4)	
Standard /	Attachment Accessor	у		Insulation pipe for water pipe, Washer, Drain hose, Tie Band	Insulation pipe for water pipe, Washer, Drain hose, Tie Band	
Optional c	art Control Box Repla	ace Kit		PAC-KE91TB-E	PAC-KE92TB-E	

Unit Converter: 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 extend 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 facory 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-WP32VMA-E	PEFY-WP40VMA-E	PEFY-WP50VMA-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
	Canacity (Namina	.1\ *4	kW	3.6	4.5	5.6
Cooling	Capacity (Nomina	1) 1	BTU/h	12,300	15,400	19,100
Cooling	Power input *2		kW	0.11	0.14	0.14
	Current input*2		A	0.74	1.15	1.15
	Our stille (Alexandre	1. *0	kW	4.0	5.0	6.3
Harden	Capacity (Nomina	1) "3	BTU/h	13,600	17,100	21,500
Heating	Power input *2		kW	0.09	0.12	0.12
	Current input *2		A	0.63	1.04	1.04
External fin	ish			Galvanised steel plate	Galvanised steel plate	Galvanised steel plate
5 P			mm	250x900x732	250x1,100x732	250x1,100x732
External dir	nension 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)
		Type Water Volume L		Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)
Heat Excha	nger			1.0	1.8	1.8
	Type × Quantity			Sirocco fan x 1	Sirocco fan x 2	Sirocco fan x 2
	5	Pa		<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>
	External Static Pressure *4		mmH ₂ 0	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>
	Motor Type			DC Motor	DC Motor	DC Motor
Fan	Motor Output		kW	0.085	0.121	0.121
	Driving Mechanis	m		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
			m3/min	12.0 - 14.5 - 17.0	14.5 - 18.0 - 21.0	14.5 - 18.0 - 21.0
	Airflow Rate	(Low Mid High)	L/s	200 - 242 - 283	242 - 300 - 350	242 - 300 - 350
			cf/m	424 - 512 - 600	512 - 636 - 742	512 - 636 - 742
Sound pres in anechoic	sure level (measured room)*2	(Low Mid High)	dB <a>	25-29-32	26-29-34	26-29-34
Insulation N	/laterial			EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam
Air Filter				PP Honeycomb fabric	PP Honeycomb fabric	PP Honeycomb fabric
Protection I	Device			Fuse	Fuse	Fuse
Connectabl	e Outdoor Unit/HBC C	ontroller		Hybrid City Multi CMB-WM-V-AA, CMB-WM-V-AB	Hybrid City Multi CMB-WM-V-AA, CMB-WM-V-AB	Hybrid City Multi CMB-WM-V-AA, CMB-WM-V-AB
Water Dirtir	a Diamatar *5 *0	Inlet	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw
water Pipin	g 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	tachment Accessor	ļ		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	rt Control Box Repla	ce Kit		PAC-KE92TB-E	PAC-KE93TB-E	PAC-KE93TB-E

Unit Converter: 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: Om (0ft).
 The facory 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 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
	Conscibu (Mamine	.1\ *4	kW	7.1	8.0	9.0
Cooling	Capacity (Nomina	() [BTU/h	24,200	27,300	30,700
Cooling	Power input *2		kW	0.14	0.24	0.24
	Current input*2		A	1.15	1.47	1.47
	Conscibu (Mamine	1) *0	kW	8.0	9.0	10.0
Heating	Capacity (Nomina	ll) 3	BTU/h	27,300	30,700	34,100
Heating	Power input *2		kW	0.12	0.22	0.22
	Current input *2		A	1.04	1.36	1.36
External fin	ish			Galvanised steel plate	Galvanised steel plate	Galvanised steel plate
External di	nension HxWxD		mm	250x1,100x732	250x1,400x732	250x1,400x732
External di	nension 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 Weight			kg (lbs)	31 (69)	40 (89)	40 (89)
Heat Excha	a cor	Туре		Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)
neal excila	iigei	Water Volume 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 mmH ₂ 0		Pa	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>
			mmH_2O	<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			DC Motor	DC Motor	DC Motor
Fan	Motor Output		kW	0.121	0.244	0.244
	Driving Mechanis	m		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
			m3/min	14.5 - 18.0 - 21.0	23.0 - 28.0 - 33.0	23.0 - 28.0 - 33.0
	Airflow Rate	(Low Mid High)	L/s	242 - 300 - 350	383 - 467 - 550	383 - 467 - 550
			cf/m	512 - 636 - 742	812 - 989 - 1,165	812 - 989 - 1,165
Sound pres	sure level (measured room)*2	(Low Mid High)	dB <a>	26-29-34	28-33-37	28-33-37
Insulation M	/laterial			EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam
Air Filter				PP Honeycomb fabric	PP Honeycomb fabric	PP Honeycomb fabric
Protection	Device			Fuse	Fuse	Fuse
Connectab	Connectable Outdoor Unit/HBC Controller			Hybrid City Multi CMB-WM-V-AA, CMB-WM-V-AB	Hybrid City Multi CMB-WM-V-AA, CMB-WM-V-AB	Hybrid City Multi CMB-WM-V-AA, CMB-WM-V-AB
Watar Dipir	a Diamator *E *G	Inlet	in.	Rc 1-1/4 screw	Rc 1-1/4 screw	Rc 1-1/4 screw
water mipir	g Diameter *5 *6	Outlet	in.	Rc 1-1/4 screw	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)	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 pa	rt Control Box Repla	ice Kit		PAC-KE93TB-E	PAC-KE94TB-E	PAC-KE94TB-E

Unit Converter: 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).

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 facory 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 source				1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz
Cooling	Capacity (Nominal) *1		kW	11.2	14.0
			BTU/h	38,200	47,800
	Power input *2		kW	0.24	0.36
	Current input*2		A	1.47	2.21
Heating	Capacity (Nominal) *3		kW	12.5	16.0
			BTU/h	42,700	54,600
	Power input *2		kW	0.22	0.34
	Current input *2		A	1.36	2.10
External finish				Galvanised steel plate	Galvanised steel plate
External dimension HxWxD		mm	250x1,400x732	250x1,600x732	
		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			kg (lbs)	40 (89)	42 (93)
Heat Exchanger		Туре		Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)
neal excila	ligei	Water Volume	L	2.6	3.0
Fan	Type $ imes$ Quantity			Sirocco fan x 2	Sirocco fan x 2
	Eutomal Chatia Dr	*4	Pa	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>
	External Static Pressure *4		mmH ₂ 0	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>
	Motor Type			DC Motor	DC Motor
	Motor Output		kW	0.244	0.244
	Driving Mechanism			Direct-driven by motor	Direct-driven by motor
	Airflow Rate	(Low Mid High)	m3/min	23.0 - 28.0 - 33.0	29.5 - 35.5 - 42.0
			L/s	383 - 467 - 550	492 - 592 - 700
			cf/m	812 - 989 - 1,165	1,042 - 1,254 - 1,483
Sound pressure level (measured in anechoic room)*2		(Low Mid High)	dB <a>	28-33-37	32-36-40
Insulation Material				EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam
Air Filter				PP Honeycomb fabric	PP Honeycomb fabric
Protection Device				Fuse	Fuse
Connectable Outdoor Unit/HBC Controller				Hybrid City Multi CMB-WM-V-AA, CMB-WM-V-AB	Hybrid City Multi CMB-WM-V-AA, CMB-WM-V-AB
Water Piping Diameter *5 *6 Inlet Outlet		Inlet	in.	Rc 1-1/4 screw	Rc 1-1/4 screw
		Outlet	in.	Rc 1-1/4 screw	Rc 1-1/4 screw
Field Drain Pipe Size mm (in.)			mm (in.)	0.D.32 (1-1/4)	0.D.32 (1-1/4)
Standard Attachment Accessory				Insulation pipe for water pipe, Washer, Drain hose, Tie Band	Insulation pipe for water pipe, Washer, Drain hose, Tie Band
Optional part Control Box Replace Kit				PAC-KE94TB-E	PAC-KE95TB-E

Unit Converter: 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 extend static pressure. 3. Nominal heating conditions – Indoor: 20°CD.B.(68°FD.B.), Outdoor: 7°CD.B.(6°FD.B./43°FW.B) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0m (0ft).

4. The facory 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 Concealed



Model	Model		PEFY-WL40VMHS-A	PEFY-WL50VMHS-A	PEFY-WL63VMHS-A	PEFY-WL71VMHS-A		
Power source	e			1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz	
	0 11 01 1	N #4	kW	4.5	5.6	7.1	8.0	
0 1	Capacity (Nomina	I) *1	BTU/h	15,400	19,100	24,200	27,300	
Cooling	Power input *2		kW	0.055	0.077	0.095	0.075	
	Current input*2		A	0.41-0.39-0.38	0.58-0.55-0.52	0.70-0.67-0.64	0.54-0.52-0.50	
			kW	5.0	6.3	8.0	9.0	
	Capacity (Nomina	I) *3	BTU/h	17.100	21.500	27.300	30.700	
Heating	Power input *2		kW.	0.055	0.077	0.095	0.075	
	Current input *2		A	0.41-0.39-0.38	0.58-0.55-0.52	0.70-0.67-0.64	0.54-0.52-0.50	
External finis	sh			Galvanised steel plate	Galvanised steel plate	Galvanised steel plate	Galvanised steel plate	
			mm	380 x 745 x 900	380 x 745 x 900	380 x 745 x 900	380 x 1.030 x 900	
External dim	ension HxWxD		in.	15 x 29-3/8 x 35-7/16	15 x 29-3/8 x 35-7/16	15 x 29-3/8 x 35-7/16	15 x 40-9/16 x 35-7/16	
Net Weight			kg (lbs)	35 (78)	35 (78)	36 (80)	45 (100)	
Heat Exchang	ner	Туре	517	Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	
nour Exonany		Water Volume	L	1.4	1.4	1.8	1.8	
	Type × Quantity			Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 2	
	External Static Pressure *4 Pa mmH ₂ 0 Motor Type		Pa	50 - <100> - <150> - <200>	50 - <100> - <150> - <200>	50 - <100> - <150> - <200>	50 - <100> - <150> - <200>	
			mmH ₂ 0	5.1 - <10.2> - <15.3> - <20.4>	5.1 - <10.2> - <15.3> - <20.4>	5.1 - <10.2> - <15.3> - <20.4>	5.1 - <10.2> - <15.3> - <20.4>	
			DC Motor	DC Motor	DC Motor	DC Motor		
Fan	Motor Output		kW	0.121	0.121	0.121	0.244	
	Driving Mechanism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor		
		m3/min		10.0 - 12.0 - 14.0	13.0 - 15.0 - 18.0	13.5 - 16.0 - 19.0	15.5 - 18.0 - 22.0	
	Airflow Rate	e (Low Mid High)	L/s	167 - 200 - 233	217 - 250 - 300	225 - 267 - 317	258 - 300 - 367	
			cf/m	353 - 424 - 494	459 - 530 - 636	477 - 565 - 671	547 - 636 - 777	
Sound pressi in anechoic r	ure level (measured com)*2	(Low Mid High)	dB <a>	22.0-25.0-29.0	24.0-27.0-32.0	25.5-28.5-32.5	24.0-27.0-31.0	
Insulation Ma	aterial			Polystyrene foam, Polyethylene foam, Urethane foam	Polystyrene foam, Polyethylene foam, Urethane foam	Polystyrene foam, Polyethylene foam, Urethane foam	Polystyrene foam, Polyethylene foam, Urethane foam	
Air Filter				Option: Synthetic fiber unwoven cloth filter (long life filter) and filter box are recommended.	Option: Synthetic fiber unwoven cloth filter (long life filter) and filter box are recommended.	Option: Synthetic fiber unwoven cloth filter (long life filter) and filter box are recommended.	Option: Synthetic fiber unwoven cloth filter (long life filter) and filter box are recommended.	
Protection De	evice			Fuse	Fuse	Fuse	Fuse	
Connectable	Outdoor Unit/HBC C	ontroller		HYBRID CITY MULTI/CMB-WM-V-AA, CMB-WM-V-AB	HYBRID CITY MULTI/CMB-WM-V-AA, CMB-WM-V-AB	HYBRID CITY MULTI/CMB-WM-V-AA, CMB-WM-V-AB	HYBRID CITY MULTI/CMB-WM-V-AA, CMB-WM-V-AB	
Water Pining	Diameter *5 *6	Inlet	mm ID	20	20	30	30	
παισι ι ιμπι		Outlet	mm ID	20	20	30	30	
Field Drain Pipe Size mm (in.)		0.D.32 (1-1/4)	0.D.32 (1-1/4)	0.D.32 (1-1/4)	0.D.32 (1-1/4)			
Standard Atta	achment Accessory	1		Washer, Drain hose, Tie band	Washer, Drain hose, Tie band	Washer, Drain hose, Tie band	Washer, Drain hose, Tie band	
	Drain pump kit			PAC-DRP10DP-E2	PAC-DRP10DP-E2	PAC-DRP10DP-E2	PAC-DRP10DP-E2	
Ontional cart	Long life filter			PAC-KE86LAF	PAC-KE86LAF	PAC-KE86LAF	PAC-KE88LAF	
Optional part	Filter box			PAC-KE63TB-F	PAC-KE63TB-F	PAC-KE63TB-F	PAC-KE99TB-F	
	Valve kit*7		PAC-SK35VK-E	PAC-SK35VK-E	PAC-SK35VK-E	PAC-SK35VK-E		

Unit Converter: 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: Om (Oft).

4. The facory 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. Certain restrictions apply to indoor unit combinations.

Refer to the section on the valve kit in the chapter "OPTIONAL PARTS" in the DATA BOOK for the restrictions.

When the valve kit is installed farther away from the HBC than the distance between the HBC and the WLmodel

indoor unit, the maximum allowable height difference between the HBC and the valve kit is 15 meters.

The maximum allowable piping length between the indoor unit and the valve kit is 5 meters.

Ceiling Concealed



Model				PEFY-WL80VMHS-A	PEFY-WL100VMHS-A	PEFY-WL125VMHS-A
Power source	e			1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz
	Oracity (Newsis	Capacity (Nominal) *1		9.0	11.2	14.0
Casling	Capacity (Nomin			30,700	38,200	47,800
Cooling	Power input *2		kW	0.090	0.160	0.175
	Current input*2		A	0.63-0.61-0.58	1.05-1.01-0.96	1.17-1.13-1.09
	Canacity (Marrin		kW	10.0	12.5	16.0
Hasting	Capacity (Nomin	41) 3	BTU/h	34,100	42,700	54,600
Heating	Power input *2		kW	0.090	0.160	0.175
	Current input *2		A	0.63-0.61-0.58	1.05-1.01-0.96	1.17-1.13-1.09
External finis	sh			Galvanised steel plate	Galvanised steel plate	Galvanised steel plate
Established allow			mm	380 x 1,030 x 900	380 x 1,195 x 900	380 x 1,195 x 900
External dime	ension HxWxD		in.	15 x 40-9/16 x 35-7/16	15 x 47-1/16 x 35-7/16	15 x 47-1/16 x 35-7/16
Net Weight			kg (lbs)	45 (100)	51 (113)	53 (117)
Heat Exchance		Туре		Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)
meat excitati	yei	Water Volume	L	1.8	2.3	2.9
	Type \times Quantity			Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2
	External Static Pressure *4		Pa	50 - <100> - <150> - <200>	50 - <100> - <150> - <200>	50 - <100> - <150> - <200>
	External Static Pr	External Static Pressure 4 mmH;		5.1 - <10.2> - <15.3> - <20.4>	5.1 - <10.2> - <15.3> - <20.4>	5.1 - <10.2> - <15.3> - <20.4>
	Motor Type			DC Motor	DC Motor	DC Motor
Fan	Motor Output		kW	0.244	0.375	0.375
	Driving Mechanism			Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
			m3/min	18.0 - 21.5 - 25.0	26.5 - 32.0 - 38.0	26.5 - 32.0 - 38.0
	Airflow Rate	(Low Mid High)	L/s	300 - 358 - 417	442 - 533 - 633	442 - 533 - 633
			cf/m	636 - 759 - 883	936 - 1,130 - 1,342	936 - 1,130 - 1,342
Sound pressi in anechoic r	ure level (measured 'oom)*2	(Low Mid High)	dB <a>	26-29-32	28-32-36	28-32-36
Insulation Ma	aterial			EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam
Air Filter				Option:Synthetic fiber unwoven cloth filter (long life filter) and fil-ter box are recommended.	Option:Synthetic fiber unwoven cloth filter (long life filter) and fil-ter box are recommended.	Option:Synthetic fiber unwoven cloth filter (long life filter) and fil-ter box are recommended.
Protection De	evice			Fuse	Fuse	Fuse
Connectable	Outdoor Unit/HBC (Controller		HYBRID CITY MULTI/CMB-WM-V-AA, CMB-WM-V-AB	HYBRID CITY MULTI/CMB-WM-V-AA, CMB-WM-V-AB	HYBRID CITY MULTI/CMB-WM-V-AA, CMB-WM-V-AB
Water Dining	Diameter *5 *6	Inlet	mm ID	30	30	30
water Pipiliy	Diameter 5 0	Outlet	mm ID	30	30	30
Field Drain P	ipe Size		mm (in.)	0.D.32 (1-1/4)	0.D.32 (1-1/4)	0.D.32 (1-1/4)
Standard Atta	achment Accessor	у		Washer, Drain hose, Tie band	Washer, Drain hose, Tie band	Washer, Drain hose, Tie band
	Drain pump kit			PAC-DRP10DP-E2	PAC-DRP10DP-E2	PAC-DRP10DP-E2
Ontional cost	Long life filter			PAC-KE88LAF	PAC-KE89LAF	PAC-KE89LAF
Optional part	Filter box			PAC-KE99TB-F	PAC-KE140TB-F	PAC-KE140TB-F
	Valve kit*7			PAC-SK35VK-E	PAC-SK35VK-E	PAC-SK35VK-E

Unit Converter: 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: Om (0ft). 4. The facory 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. Certain restrictions apply to indoor unit combinations. Refer to the section on the valve kit in the chapter "OPTIONAL PARTS" in the DATA BOOK for the restrictions. When the valve kit is installed farther away from the HBC than the distance between the HBC and the WLmodel

indoor unit, the maximum allowable height difference between the HBC and the valve kit is 15 meters.

The maximum allowable piping length between the indoor unit and the valve kit is 5 meters.

Ceiling Cassette



Model				PLFY-WL20VEM-E	PLFY-WL25VEM-E	PLFY-WL32VEM-E
Power source	e			1-phase 220-240 V 50Hz	1-phase 220-240 V 50Hz	1-phase 220-240 V 50Hz
	Our stille (Marrie	-1) *4	kW	2.2	2.8	3.6
0	Capacity (Nomin	al) " I	BTU/h	7,500 9,600		12,300
Cooling	Power input	Power input		0.03	0.03	0.03
	Current input		A	0.26	0.29	0.33
	0 11 (1)		kW	2.5	3.2	4.0
Hard an	Capacity (Nomin	al) ^2	BTU/h	8,500	10,900	13,600
Heating	Power input		kW	0.03	0.03	0.03
	Current input		A	0.20	0.23	0.27
External fin	sh			Galvanised steel sheet	Galvanised steel sheet	Galvanised steel sheet
			mm	258 x 840 x 840	258 x 840 x 840	258 x 840 x 840
External dir	nension HxWxD		in.	10-3/16 x 33-1/16 x 33-1/16	10-3/16 x 33-1/16 x 33-1/16	10-3/16 x 33-1/16 x 33-1/16
Net Weight			kg (lbs)	18 (40)	18 (40)	20 (44)
		Model		PLP-6EA	PLP-6EA	PLP-6EA
		External finish		MUNSELL (1.0Y 9.2/0.2)	MUNSELL (1.0Y 9.2/0.2)	MUNSELL (1.0Y 9.2/0.2)
Decoration	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 37-1/16 x 37-1/16	1-9/16 x 37-13/32 x 37-13/32
		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 Exchar	iger	Water Volume	L	1.0	1.0	1.8
	Type × Quantity	Type \times Quantity		Turbo Fan x 1	Turbo Fan x 1	Turbo Fan x 1
	External Static P	External Static Pressure		0	0	0
	Motor Type	Motor Type		DC Motor	DC Motor	DC Motor
-	Motor Output		kW	0.05	0.05	0.05
Fan	Driving Mechani	sm		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
			m3/min	12 - 13 - 14 - 15	12 - 13 - 15 - 17	14 - 15 - 16 - 17
	Airflow Rate (Lov	v-Mid1-Mid2-High)	L/s	200 - 217 - 233 - 250	200 - 217 - 250 - 283	233 - 250 - 267 - 283
			cf/m	424 - 459 - 494 - 530	424 - 459 - 530 - 600	494 - 530 - 565 - 600
Sound pres	sure level (Low-Mid1	I-Mid2-High)	dB <a>	24 - 26 - 27 - 28	24 - 26 - 28 - 30	26 - 27 - 29 - 30
Insulation N				PS	PS	PS
Air Filter				PP Honeycomb	PP Honeycomb	PP Honeycomb
Protection [)evice			Fuse	Fuse	Fuse
Refrigerant	Control Device			-	-	-
Connectabl	e Outdoor Unit/HBC	Controller		Hybrid City Multi CMB-W	M-V-AA, CMB-WM-V-AB	Hybrid City Multi CMB-WM-V-AA, CMB-WM-V-AB
Water Dinin	n Diamatas *0 *4	Inlet	mm ID	20	20	20
water Pipin	g Diameter *3 *4	Outlet	mm ID	20	20	20
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	l *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 R	eceiver		PAR-SE9FA-E	PAR-SE9FA-E	PAR-SE9FA-E
	Valve kit *6			PAC-SK35VK-E	PAC-SK35VK-E	PAC-SK35VK-E

Unit Converter: 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.)
- Nomial 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. The maximum allowable piping length between the indoor unit and the valve kit is 5 meters.
- Please group units that operate on 1 branch.
 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.

Ceiling Cassette



Model				PLFY-WL40VEM-E	PLFY-WL50VEM-E	PLFY-WL63VEM-E
Power source	ce			1-phase 220-240 V 50Hz	1-phase 220-240 V 50Hz	1-phase 220-240 V 50Hz
	Canaaitu (Mami	aal\ *4	kW	4.5	5.6	7.1
Cooling	Capacity (Nomi	1ai) 1	BTU/h	15,400	19,100	24,200
Cooling	Power input	Power input		0.03	0.04	0.04
	Current input		A	0.35	0.40	0.40
	Our stille (New)	1) *0	kW	5.0	6.3	8.0
lasting	Capacity (Nomi	1d1) Z	BTU/h	17,100	21,500	27,300
Heating	Power input		kW	0.03	0.04	0.04
	Current input		A	0.29	0.34	0.34
External fini	sh			Galvanised steel sheet	Galvanised steel sheet	Galvanised steel sheet
E de la de la Pa			mm	258 x 840 x 840	258 x 840 x 840	298 x 840 x 840
External din	nension HxWxD		in.	10-3/16 x 33-1/16 x 33-1/16	10-3/16 x 33-1/16 x 33-1/16	11-3/4 x 33-1/16 x 33-1/16
Vet Weight			kg (lbs)	20 (44)	20 (44)	23 (51)
		Model		PLP-6EA	PLP-6EA	PLP-6EA
		External finish		MUNSELL (1.0Y 9.2/0.2)	MUNSELL (1.0Y 9.2/0.2)	MUNSELL (1.0Y 9.2/0.2)
Decoration	Panel		mm	40 x 950 x 950	40 x 950 x 950	40 x 950 x 950
		Dimensions	in.	1-9/16 x 37-1/16 x 37-1/16	1-9/16 x 37-1/16 x 37-1/16	1-9/16 x 37-13/32 x 37-13/32
		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 Exchar	iger	Water Volume	L	1.8	1.8	2.1
	Type \times Quantity			Turbo Fan x 1	Turbo Fan x 1	Turbo Fan x 1
	External Static Pressure		Ра	0	0	0
	Motor Type			DC Motor	DC Motor	DC Motor
-	Motor Output		kW	0.05	0.05	0.12
Fan	Driving Mechan	ism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
			m3/min	14 - 15 - 16 - 17	14 - 16 - 18 - 20	15 - 17 - 19 - 21
	Airflow Rate (Lo	w-Mid1-Mid2-High)	L/s	233 - 250 - 267 - 283	233 - 267 - 300 - 333	250 - 283 - 317 - 350
			cf/m	494 - 530 - 565 - 600	494 - 565 - 636 - 706	530 - 600 - 671 - 742
Sound pres	sure level (Low-Mid	1-Mid2-High)	dB <a>	26 - 28 - 29 - 31	27 - 29 - 31 - 33	27 - 29 - 31 - 33
nsulation N	laterial			PS	PS	PS
Air Filter				PP Honeycomb	PP Honeycomb	PP Honeycomb
Protection D	Device			Fuse	Fuse	Fuse
Refrigerant	Control Device			-	-	-
Connectabl	e Outdoor Unit/HBC	Controller			Hybrid City Multi CMB-WM-V-AA, CMB-WM-V-AB	
Notor Dinin	n Diamakar *0 *4	Inlet	mm ID	20	20	30
water Pipin	g Diameter *3 *4	Outlet	mm ID	20	20	30
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	el *5		PLP-6EA/PLP-6EAE/PLP-6EAL/PLP-6EALE	PLP-6EA/PLP-6EAE/PLP-6EAL/PLP-6EALE	PLP-6EA/PLP-6EAE/PLP-6EAL/PLP-6EALE
Optional	i-See Sensor Co	ontrol Panel		PAC-SE1ME-E	PAC-SE1ME-E	PAC-SE1ME-E
parts	Wirelss Signal F	Receiver		PAR-SE9FA-E	PAR-SE9FA-E	PAR-SE9FA-E
	Valve kit *6			PAC-SK35VK-E	PAC-SK35VK-E	PAC-SK35VK-E

Unit Converter: 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.)
- Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
 Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- 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. The maximum allowable piping length between the indoor unit and the valve kit is 5 meters.

* Please group units that operate on 1 branch.

* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.

Ceiling Cassette



Model				PLFY-WL80VEM-E	PLFY-WL100VEM-E	PLFY-WL125VEM-E
Power source	се			1-phase 220-240 V 50Hz	1-phase 220-240 V 50Hz	1-phase 220-240 V 50Hz
	Our stille (Marsie	-1) *4	kW	9.0	11.2	14.0
0	Capacity (Nomir	iai) " i	BTU/h	30,700 38,200		47,800
Cooling	Power input		kW	0.05	0.08	0.11
	Current input		A	0.46	0.66	1.05
	0 11 01 1		kW	10.0	12.5	16.0
Uniter	Capacity (Nomir	al) ^2	BTU/h	34,100	42,700	54,600
leating	Power input		kW	0.05	0.08	0.11
	Current input		A	0.40	0.60	0.99
External fini	ish			Galvanised steel sheet	Galvanised steel sheet	Galvanised steel sheet
For a state			mm	298 x 840 x 840	298 x 840 x 840	298 x 840 x 840
external din	nension HxWxD		in.	11-3/4 x 33-1/16 x 33-1/16	11-3/4 x 33-1/16 x 33-1/16	11-3/4 x 33-1/16 x 33-1/16
Net Weight			kg (lbs)	23 (51)	23 (51)	25 (55)
		Model		PLP-6EA	PLP-6EA	PLP-6EA
		External finish		MUNSELL (1.0Y 9.2/0.2)	MUNSELL (1.0Y 9.2/0.2)	MUNSELL (1.0Y 9.2/0.2)
Decoration	Panel	Dimension	mm	40 x 950 x 950	40 x 950 x 950	40 x 950 x 950
		Dimensions	in.	1-9/16 x 37-13/32 x 37-13/32	1-9/16 x 37-13/32 x 37-13/32	1-9/16 x 37-13/32 x 37-13/32
		Net Weight	kg (lbs)	5 (11)	5 (11)	5 (11)
		Туре		Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)
Heat Exchar	iger	Water Volume	L	2.1	2.2	3.1
	Type $ imes$ Quantity			Turbo Fan x 1	Turbo Fan x 1	Turbo Fan x 1
	External Static P	External Static Pressure		0	0	0
	Motor Type			DC Motor	DC Motor	DC Motor
	Motor Output		kW	0.12	0.12	0.12
Fan	Driving Mechani	sm		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
			m3/min	15 - 18 - 21 - 23	19 - 23 - 26 - 30	20 - 25 - 30 - 35
	Airflow Rate (Lo	v-Mid1-Mid2-High)	L/s	250 - 300 - 350 - 383	317 - 383 - 433 - 500	333 - 417 - 500 - 583
			cf/m	530 - 636 - 742 - 812	671 - 812 - 918 - 1059	706 - 883 - 1059 - 1236
Sound pres	sure level (Low-Mid	I-Mid2-High)	dB <a>	27 - 30 - 33 - 35	31 - 35 - 37 - 40	33 - 37 - 40 - 46
nsulation N	laterial			PS	PS	PS
Air Filter				PP Honeycomb	PP Honeycomb	PP Honeycomb
Protection D	Device			Fuse	Fuse	Fuse
Refrigerant	Control Device			-	-	-
Connectable	e Outdoor Unit/HBC	Controller			Hybrid City Multi CMB-WM-V-AA, CMB-WM-V-AB	
Notor Dinin	g Diameter *3 *4	Inlet	mm ID	30	30	30
water mipili	y Diallielei 5 4	Outlet	mm ID	30	30	30
ield 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	l *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 R	eceiver		PAR-SE9FA-E	PAR-SE9FA-E	PAR-SE9FA-E
	Valve kit *6			PAC-SK35VK-E	PAC-SK35VK-E	PAC-SK35VK-E

Unit Converter: 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.)

- 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.)
 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. The maximum allowable piping length between the indoor unit and the valve kit is 5 meters.
- * Please group units that operate on 1 branch.
- * 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.

Compact Ceiling Cassette



Model				PLFY-WL10VFM-E	PLFY-WL15VFM-E
Power sour	rce			1-phase 220-240 V 50Hz	1-phase 220-240 V 50Hz
	Or a still (Marri	- 11. #4	kW	1.2	1.7
0 1	Capacity (Nomin	181) "1	BTU/h	4,100	5,800
Cooling	Power input	Power input		0.02	0.02
	Current input		A	0.23	0.24
	0 11 01 1	0.*0	kW	1.4	1.9
Heathan	Capacity (Nomin	1al) ^2	BTU/h	4,800	6,500
Heating	Power input		kW	0.02	0.02
	Current input		A	0.17	0.18
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	t		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	I Panel		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)
II		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 $ imes$ Quantity			Turbo Fan x 1	Turbo Fan x 1
	External Static F	External Static Pressure Pa		0	0
	Motor Type			DC Motor	DC Motor
Fee	Motor Output		kW	0.05	0.05
Fan	Driving Mechan	sm		Direct-driven by motor	Direct-driven by motor
			m3/min	6.0 - 6.5 - 7.0	6.0 - 7.0 - 8.0
	Airflow Rate (Lo	w-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-W	M-V-AA, CMB-WM-V-AB
Water Dir 1	n Diamata *0 */	Inlet	mm ID	20	20
water Pipir	ng Diameter *3 *4	Outlet	mm ID	20	20
Field Drain	Pipe Size		mm (in.)	0.D.32 (1-1/4)	0.D.32 (1-1/4)
	Decoration Pane	1 *5		SLP-2FA/SLP-2FAE/SLP-2FAL/SLP-2FALE	SLP-2FA/SLP-2FAE/SLP-2FAL/SLP-2FALE
Optional	i-See Sensor co	rner panel		PAC-SF1ME-E	PAC-SF1ME-E
parts	Wireless Signal	Receiver		PAR-SF9FA-E	PAR-SF9FA-E
541.10	Valve kit *6			PAC-SK35VK-E	PAC-SK35VK-E

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

Notes:

- 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.)
 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.)
 Be sure to ischal a value on the water outlet

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

5. PLFY-WL-VFM-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. The maximum allowable piping length between the indoor unit and the valve kit is 5 meters.

* Please group units that operate on 1 branch.

* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.

Compact Ceiling Cassette



Model				PLFY-WL20VFM-E	PLFY-WL25VFM-E	
Power sour	rce			1-phase 220-240 V 50Hz	1-phase 220-240 V 50Hz	
	Oracity (News)	- 1) #4	kW	2.2	2.8	
0	Capacity (Nomi	Capacity (Nominal) *1		7,500	9,600	
Cooling	Power input	Power input		0.02	0.03	
	Current input		A	0.26	0.29	
	0 11 01 1	11 *0	kW	2.5	3.2	
Heet a	Capacity (Nomin	nal) ^2	BTU/h	8,500	10,900	
Heating	Power input		kW	0.02	0.03	
	Current input		A	0.20	0.23	
External fir	nish			Galvanised steel sheet	Galvanised steel sheet	
Enternal all			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	t		kg (lbs)	14 (31)	14 (31)	
		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	I Panel	Dimonsions	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)	
Heat Excha		Туре		Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	
Heat Exclia	uiger	Water Volume	L	0.9	0.9	
	Type $ imes$ Quantity			Turbo Fan x 1	Turbo Fan x 1	
	External Static F	External Static Pressure Pa		0	0	
	Motor Type			DC Motor	DC Motor	
Fan	Motor Output		kW	0.05	0.05	
Fall	Driving Mechan	ism		Direct-driven by motor	Direct-driven by motor	
	Al-flow Data (La		m3/min	6.5 - 7.0 - 8.0	6.5 - 7.5 - 9.0	
	Airflow Rate (Lo	w-wid-Hign)	L/s	108 - 117 - 133	108 - 125 - 150	
			cf/m	230 - 247 - 282	230 - 265 - 318	
Sound pres	ssure level (Low-Mid	-High)	dB <a>	27 - 29 - 31	27 - 30 - 34	
Insulation	Material			PS	PS	
Air Filter				PP Honeycomb	PP Honeycomb	
Protection	Device			Fuse	Fuse	
Connectab	le Outdoor Unit/HBC	Controller		Hybrid City Multi CMB-WI	M-V-AA, CMB-WM-V-AB	
Watar Dini-	ng Diameter *3 *4	Inlet	mm ID	20	20	
water ripii	iy Dialiletei 5 4	Outlet	mm ID	20	20	
Field Drain	Pipe Size		mm (in.)	0.D.32 (1-1/4)	0.D.32 (1-1/4)	
Onlinnel	Decoration Pane	el *5		SLP-2FA/SLP-2FAE/SLP-2FAL/SLP-2FALE	SLP-2FA/SLP-2FAE/SLP-2FAL/SLP-2FALE	
Optional parts	i-See Sensor co			PAC-SF1ME-E	PAC-SF1ME-E	
parto	Wireless Signal	Receiver		PAR-SF9FA-E	PAR-SF9FA-E	
	Valve kit *6	t *6		PAC-SK35VK-E	PAC-SK35VK-E	

Unit Converter: 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 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.)
 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.)
 Be sure to ischal a value on the water outlet

- 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-VFM-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. The maximum allowable piping length between the indoor unit and the valve kit is 5 meters.
- * Please group units that operate on 1 branch.
- * 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.

Compact Ceiling Cassette



Model				PLFY-WL32VFM-E	PLFY-WL40VFM-E
Power sou	rce			1-phase 220-240 V 50Hz	1-phase 220-240 V 50Hz
	0 11 01 1	1. *4	kW	3.6	4.5
0 1	Capacity (Nomin	181) " 1	BTU/h	12,300	15,400
Cooling	Power input	Power input		0.04	0.05
	Current input	1		0.38	0.46
			kW	4.0	5.0
	Capacity (Nomin	ial) *2	BTU/h	13,600	17,100
Heating	Power input		kW	0.04	0.05
	Current input		A	0.32	0.40
External fir	nish			Galvanised steel sheet	Galvanised steel sheet
			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	t		kg (lbs)	14 (31)	14 (31)
0		Model	0(1)	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	I Panel		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	0.9	0.9
	Type × Quantity			Turbo Fan x 1	Turbo Fan x 1
	External Static F		Pa	0	0
	Motor Type			DC Motor	DC Motor
-	Motor Output		kW	0.05	0.05
Fan	Driving Mechani	sm		Direct-driven by motor	Direct-driven by motor
			m3/min	6.5 - 9.0 - 12.0	6.5 - 11.5 - 13.0
	Airflow Rate (Lo	w-Mid-High)	L/s	108 - 150 - 200	108 - 192 - 217
			cf/m	230 - 318 - 424	230 - 406 - 4259
Sound pres	ssure level (Low-Mid	-High)	dB <a>	27 - 33 - 41	27 - 40 - 43
Insulation	Material			PS	PS
Air Filter				PP Honeycomb	PP Honeycomb
Protection	Device			Fuse	Fuse
Connectab	le Outdoor Unit/HBC	Controller		Hybrid City Multi CMB-W	M-V-AA, CMB-WM-V-AB
Mater Di 1	D'	Inlet	mm ID	20	20
water Pipii	ng Diameter *3 *4	Outlet	mm ID	20	20
Field Drain	Pipe Size		mm (in.)	0.D.32 (1-1/4)	0.D.32 (1-1/4)
	Decoration Pane	1 *5		SLP-2FA/SLP-2FAE/SLP-2FAL/SLP-2FALE	SLP-2FA/SLP-2FAE/SLP-2FAL/SLP-2FALE
Optional	i-See Sensor co	rner panel		PAC-SF1ME-E	PAC-SF1ME-E
parts	Wireless Signal			PAR-SF9FA-E	PAR-SF9FA-E
		<u> </u>		PAC-SK35VK-E	PAC-SK35VK-E

Unit Converter: 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 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.)
 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.)
 Be sure to ischal a value on the vate outlet

- 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-VFM-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. The maximum allowable piping length between the indoor unit and the valve kit is 5 meters.

- * Please group units that operate on 1 branch.
- * 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.

Wall Mounted



Model				PKFY-WL10VLM-E	PKFY-WL15VLM-E	PKFY-WL20VLM-E
Power sour	ce			1-phase 220-240 V 50Hz	1-phase 220-240 V 50Hz	1-phase 220-240 V 50Hz
	Canacity (Nami	aal\ *4	kW	1.2	1.7	2.2
0	Capacity (Nomi	nal) i l	BTU/h	4,100	5,800	7,500
Cooling	Power input		kW	0.02	0.02	0.03
	Current input		A	0.20	0.20	0.25
	Canacity (Nami	ool\ *0	kW	1.4	1.9	2.5
Hasting	Capacity (Nomi	nal) Z	BTU/h	4,800	6,500	8,500
Heating	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)
Evtornal di	mension HxWxD		mm	299 x 773 x 237	299 x 773 x 237	299 x 773 x 237
EXTERITAL OIL	IIIEIISIOII 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)
Heat Exchanger		21		Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)
neal Excila	liigei	Water Volume	L	0.6	0.6	0.7
	Type × Quantity External Static Pressure Pa			Line Flow Fan x 1	Line Flow Fan x 1	Line Flow Fan x 1
	External Static F	External Static Pressure		0	0	0
	Motor Type			DC Motor	DC Motor	DC Motor
Fan	Motor Output		kW	0.03	0.03	0.03
dII	Driving Mechan	Driving Mechanism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
			m3/min	3.3 - 3.8 - 4.1 - 4.5	3.3 - 3.8 - 4.3 - 4.9	4.0 - 5.0 - 6.0 - 7.0
	Airflow Rate (Lo	w-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	ssure level (Low-Mid	2-Mid1-High)	dB <a>	22 - 26 - 28 - 30	22 - 26 - 29 - 32	22 - 28 - 33 - 36
Insulation 1	Vlaterial			Polyethylene Sheet	Polyethylene Sheet	Polyethylene Sheet
Air Filter				PP Honeycomb	PP Honeycomb	PP Honeycomb
Protection	Device			Fuse	Fuse	Fuse
Connectab	le Outdoor Unit/HBC	Controller			Hybrid City Multi CMB-WM-V-AA, CMB-WM-V-AB	
Nator Dinir	ng Diameter *3 *4	Inlet	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw
ιναισι ΓιμΠ	iy Didilletel 5 4	Outlet	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw
ield Drain	Pipe Size		mm (in.)	I.D.16 (5/8)	I.D.16 (5/8)	I.D.16 (5/8)
Optional	Drain Pump Kit			PAC-SK01DM-E	PAC-SK01DM-E	PAC-SK01DM-E
Parts	Valve Kit *5			PAC-SK35VK-E	PAC-SK35VK-E	PAC-SK35VK-E

Unit Converter: 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. 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).

- 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. The maximum allowable piping length between the indoor unit and the valve kit is 5 meters.

Please group units that operate on 1 branch.
 Please group units that operate on 1 branch.
 Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.

Wall Mounted



Model				PKFY-WL25VLM-E	PKFY-WL32VLM-E	PKFY-WL40VLM-E
Power sour	ce			1-phase 220-240 V 50Hz	1-phase 220-240 V 50Hz	1-phase 220-240 V 50Hz
	Capacity (Nomi	aal\ *1	kW	2.8	3.6	4.5
Cooling	Capacity (Noriii	Idl) I	BTU/h	9,600	12,300	15,400
Cooling	Power input	Power input		0.04	0.04	0.05
	Current input		A	0.35	0.35	0.45
	Our set to (Marris	-1) *0	kW	3.2	4.0	5.0
l la alta a	Capacity (Nomin	1al) "Z	BTU/h	10,900	13,600	17,100
Heating	Power input		kW	0.03	0.03	0.04
	Current input		A	0.30	0.30	0.40
External fin	iish			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 de la			mm	299 x 773 x 237	299 x 898 x 237	299 x 898 x 237
External dir	mension 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
Net Weight			kg (lbs)	11 (25)	13 (29)	13 (29)
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	0.7	1.0	1.1
	Type $ imes$ Quantity	Type $ imes$ Quantity		Line Flow Fan x 1	Line Flow Fan x 1	Line Flow Fan x 1
	External Static Pressure		Pa	0	0	0
	Motor Type			DC Motor	DC Motor	DC Motor
	Motor Output	Notor Output kW		0.03	0.03	0.03
an	Driving Mechan	ism		Direct-Drive by motor	Direct-Drive by motor	Direct-Drive by motor
	N. 4. D. 4	MPT 1PT 1	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
nsulation N	Vlaterial			Polyethylene Sheet	Polyethylene Sheet	Polyethylene Sheet
Air Filter				PP Honeycomb	PP Honeycomb	PP Honeycomb
Protection I	Device			Fuse	Fuse	Fuse
Connectabl	le Outdoor Unit/HBC	Controller			Hybrid City Multi CMB-WM-V-AA, CMB-WM-V-AB	
Notor Dici-	Diamotor *2 *4	Inlet	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw
water Pipin	ng Diameter *3 *4	Outlet	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw
Field Drain	Pipe Size		mm (in.)	I.D.16 (5/8)	I.D.16 (5/8)	I.D.16 (5/8)
Optional	Drain Pump Kit			PAC-SK01DM-E	PAC-SK01DM-E	PAC-SK01DM-E
Parts	Valve Kit *5			PAC-SK35VK-E PAC-SK35VK-E		PAC-SK35VK-E

Unit Converter: 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. 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). 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. The maximum allowable piping length between the indoor unit and the valve kit is 5 meters.

Please group units that operate on 1 branch.
 * Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.

Wall Mounted



Model				PKFY-WL50VKM-E	PKFY-WL63VKM-E	PKFY-WL80VKM-E
Power sour	ce			1-phase 220-240 V 50Hz	1-phase 220-240 V 50Hz	1-phase 220-240 V 50Hz
	Capacity (Nomi	aal) *1	kW	5.6	7.1	9.0
Cooling	Gapacity (NOTHI	idi) i	BTU/h	19,100	24,200	30,700
Cooling	Power input		kW	0.04	0.05	0.07
	Current input		A	0.46	0.56	0.76
	Consoity (Nomi	aal\ *0	kW	6.3	8.0	10.0
Heating	Capacity (Nomi	idi) Z	BTU/h	21,500	27,300	34,100
пеациу	Power input		kW	0.04	0.05	0.07
	Current input		A	0.340	0.50	0.70
External fin	ish			Plastic (1.0Y 9.2/0.2)	Plastic (1.0Y 9.2/0.2)	Plastic (1.0Y 9.2/0.2)
Extornal di	mension HxWxD		mm	365 x 1170 x 295	365 x 1170 x 295	365 x 1170 x 295
externar un	IIIEIISIOII HXWXD		in.	14-3/8 x 46-1/16 x 11-5/8	14-3/8 x 46-1/16 x 11-5/8	14-3/8 x 46-1/16 x 11-5/8
Net Weight			kg (lbs)	20 (44)	20 (44)	20 (44)
last Eucho		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	2.0	2.0	2.0
	Type $ imes$ 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
- an	Motor Output		kW	0.069	0.069	0.069
Fan	Driving Mechan	ism		Direct-Drive by motor	Direct-Drive by motor	Direct-Drive by motor
	Al-flow Data (La		m3/min	18 - 20	18 - 22	18 - 26
	Airflow Rate (Lo	w-IVIIa-Hign)	L/s	300 - 333	300 - 367	300 - 433
			cf/m	636 - 706	636 - 777	636 - 918
Sound pres	sure level (Low-Mid	-High)	dB <a>	39 - 42	39 - 45	39 - 49
nsulation M	Vlaterial			Polyethylene Sheet	Polyethylene Sheet	Polyethylene Sheet
Air Filter				PP Honeycomb	PP Honeycomb	PP Honeycomb
Protection	Device			Fuse	Fuse	Fuse
Connectabl	le Outdoor Unit/HBC	Controller			Hybrid City Multi CMB-WM-V-AA, CMB-WM-V-AB	
Notor Dinir	Diamotor *2 *4	Inlet	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw
ivaler pipir	ng 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.16 (5/8)	I.D.16 (5/8)	I.D.16 (5/8)
Optional	Drain Pump Kit			PAC-SK01DM-E	PAC-SK01DM-E	PAC-SK01DM-E
Parts	Valve Kit *5			PAC-SK35VK-E	PAC-SK35VK-E	PAC-SK35VK-E

Unit Converter: 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. 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).

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. The maximum allowable piping length between the indoor unit and the valve kit is 5 meters.

* Please group units that operate on 1 branch.

* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.

Floor Standing Concealed



Model				PFFY-WP20VLRMM-E	PFFY-WP25VLRMM-E	PFFY-WP32VLRMM-E
Power source	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
	Capacity (Nomin	al) *1	kW	2.2	2.8	3.6
Cooling	Gapacity (NOTITI	idi) i	BTU/h	7,500	9,600	12,300
Cooling	Power input *2		kW	0.040	0.040	0.050
	Current input *2		A	0.35	0.35	0.47
	Capacity (Nomin	al) *0	kW	2.5	3.2	4.0
Heating	Gapacity (NOTITI	iai) o	BTU/h	8,500	10,900	13,600
nealing	Power input *2		kW	0.040	0.040	0.050
	Current input *2		A	0.35	0.35	0.47
External fini	sh			Galvanised steel plate	Galvanised steel plate	Galvanised steel plate
External din	nension HxWxD		mm	639 x 886 x 220	639 x 1,006 x 220	639 x 1,006 x 220
EXTGUIU UII	IEIISIOII HXWXD		in.	25-3/16 x 34-15/16 x 8-11/16	25-3/16 x 39-5/8 x 8-11/16	25-3/16 x 39-5/8 x 8-11/16
Net Weight			kg (lbs)	22 (49)	25 (56)	25 (56)
Heat Euclide		Туре		Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)
Heat Exchar	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 Static Pressure *4		Ра	20 - <40> - <60>	20 - <40> - <60>	20 - <40> - <60>
	EXTERNAL STATIC P	External Static Flessure 4		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 Mechani	sm		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
			m3/min	4.5 - 5.0 - 6.0	6.0 - 7.0 - 8.0	7.5 - 9.0 - 10.5
	Airflow Rate (Lov	v-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 press in anechoic	sure level (measured room)*2	(Low-Mid-High)	dB <a>	31 - 33 - 38	31 - 33 - 38	31 - 35 - 38
Insulation N	laterial			Polyethylene foam, Urethane foam	Polyethylene foam, Urethane foam	Polyethylene foam, Urethane foam
Air Filter				PP Honeycomb fabric	PP Honeycomb fabric	PP Honeycomb fabric
Protection D)evice			Fuse	Fuse	Fuse
Connectable	e Outdoor Unit/HBC	Controller		Hybrid City Multi CMB-WM-V-AA, CMB-WM-V-AB	Hybrid City Multi CMB-WM-V-AA, CMB-WM-V-AB	Hybrid City Multi CMB-WM-V-AA, CMB-WM-V-AB
Water Dinin	n Diamator *2 *4	Inlet	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw
water mipili	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 Accesso	ry		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: 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.

2. The value are ineasured at the lactory 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 facory 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 source				1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz
Cooling	Canacity (Namina	1) *4	kW	4.5	5.6
	Capacity (Nominal) *1		BTU/h	15,400	19,100
	Power input *2		kW	0.050	0.070
	Current input *2		A	0.47	0.65
Heating	Capacity (Nominal) *3		kW	5.0	6.3
			BTU/h	17,100	21,500
	Power input *2		kW	0.050	0.070
	Current input *2		A	0.47	0.65
External finish				Galvanised steel plate	Galvanised steel plate
External dimension HxWxD		mm	639 x 1,246 x 220	639 x 1,246 x 220	
		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)			kg (lbs)	29 (64)	29 (64)
Heat Exchanger		Туре		Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)
Heat Excita	nger	Water Volume	L	1.5	1.5
Fan	Type $ imes$ Quantity			Sirocco Fan x 2	Sirocco Fan x 2
	External Static Pressure *4		Pa	20 - <40> - <60>	20 - <40> - <60>
			mmH ₂ 0	2.0 - <4.1> - <6.1>	2.0 - <4.1> - <6.1>
	Motor Type			DC Motor	DC Motor
	Motor Output		kW	0.096	0.096
	Driving Mechanism			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
			L/s	133 - 167 - 192	175 - 217 - 250
			cf/m	282 - 353 - 406	371 - 459 - 530
Sound pres	sure level (measured room)*2	(Low-Mid-High)	dB <a>	34 - 37 - 40	37 - 42 - 45
Insulation Material				Polyethylene foam, Urethane foam	Polyethylene foam, Urethane foam
Air Filter				PP Honeycomb fabric	PP Honeycomb fabric
Protection Device				Fuse	Fuse
Connectable Outdoor Unit/HBC Controller				Hybrid City Multi CMB-WM-V-AA, CMB-WM-V-AB	Hybrid City Multi CMB-WM-V-AA, CMB-WM-V-AB
Water Piping Diameter *3 *4 Unlet 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.)			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 Attachment Accessory				Insulation pipe for water pipe, Drain hose (flexible joint), Screw plate, Level adjusting screw, Hose band	Insulation pipe for water pipe, Drain hose (flexible joint), Screw plate, Level adjusting screw, Hose band

Unit Converter: 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 facory 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.





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