



R32 Hybrid Catalogue

Next Generation 2-Pipe VRF Heat Recovery Systems



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VRF Now with R32 Refrigerant

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.





The Future-Proof VRF Solution Offering Simultaneous Heating and Cooling with Minimal Environmental Impact

With the environmental pressure on R410A refrigerant increasing, Mitsubishi Electric's commitment to reducing the environmental impact of air conditioning has seen the introduction of New Zealand's first VRF (Variable Refrigerant Flow) solution that has utilised R32 refrigerant.

Mitsubishi Electric has long been a pioneer in the world of air conditioning and the world's first R32 Hybrid Product Range puts the company at the forefront of the industry.

The system utilises the low Global Warming Potential (GWP) refrigerant R32, providing a real solution that delivers high operational efficiency whilst minimising the GWP of the refrigerants used within these systems.

R32 Hybrid is the World's Only Low GWP 2-Pipe Hydronic Heat Recovery System

The Mitsubishi Electric R32 Hybrid solution is an evolution of Mitsubishi Electric's R410A Hybrid System. First introduced in 2014, this unique 2-Pipe System combines VRF and chiller technologies using water throughout the majority of the pipework to efficiently transfer simultaneous heating and cooling to different spaces.

By using water as the heat transfer fluid for the majority of the air conditioning system, R32 Hybrid minimises the overall amount of refrigerant charge in the system.

Furthermore, with only water circuits connecting to the indoor units, R32 Hybrid minimises the need for leak detection. Offering significant reductions in on-going maintenance and installation costs in the controlled space that would be needed to comply with AS/NZS 5149. (1-4) 2016.

All the Benefits of VRF with Significantly Lower GWP

The 2-Pipe R32 Hybrid System offers the same comfort levels normally associated with 4-pipe fan coil systems. In addition, the system also features the same design flexibility, operational efficiency and advanced control that Mitsubishi Electric traditional VRF is renowned for.

Because Hybrid now also incorporates R32 refrigerant, it delivers a VRF system with a significantly lower Global Warming Potential (GWP) than existing solutions.

In fact, the shift from R410A to R32 refrigerant realises a massive 66% reduction in Global Warming Potential.

R32 Hybrid is the New VRF Standard

Since 2015, Hybrid applications have already enjoyed significant growth in New Zealand, successfully incorporated in a variety of designs ranging from offices, hotels, retirement villages, education facilities, medical centres and much more.

The introduction of the R32 Hybrid Product Range provides the obvious answer for those customers looking for a future-proof heating and cooling solution that delivers advanced efficiency with improved corporate social responsibility and minimises environmental impact.



R32 – The Greener Solution

The Shift Away from R410A Refrigerant to Low GWP Alternatives like R32

The global community is in a race to lower its carbon footprint and decrease the rate of global warming before it is too late.

The Kigali Amendment to the Montreal Protocol ratified on the 3rd of October 2019, dictates the rate of phase down of HFC refrigerants for New Zealand as part of this strategy and commenced on the 1st of January 2020.

It is estimated that this directive has the potential to avoid aggregate emissions of more than 90 gigatonnes of CO₂e by 2050 – equivalent to two years of total global greenhouse gas emissions (US EPA 2016)!

The key to achieving this goal is the shift away from traditional refrigerants such as R410A.

Replacing traditional refrigerants to those with a much lower GWP, will be a big step towards significantly reducing the future potential rate of rise in the earth's temperature and the catastrophic effects that would have on our planet.

The new R32 Hybrid Air Source Range combines all the benefits of the current R410A range with 33% of the Global Warming Potential. That's the lowest GWP in the VRF market!

Regulated Phase Down of CO₂ Emissions



GWP is a measure of the warming potential as compared to CO_2 which has a unitary GWP of 1.

R32 refrigerant is zero ozone depleting and has a GWP 66% less than R410A. For example, R410A will hold 2,088 times more heat when released in the upper atmosphere than the equivalent amount of CO_p would.

R32 refrigerant is being adopted by Mitsubishi Electric as an important step in the process towards the ultimate goal of a zero ODP, lower GWP, efficient, safe, and non-toxic refrigerant.

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.





Year	Levy Rate Refrigerar	e – per kg nt (R410A)	Levy Rate – per kg Refrigerant (R32)			
2016	\$0.31	Actual				
2017	\$13.72	Actual				
2018	\$30.78	Actual	\$9.94	Actual		
2019	\$41.55	Actual	\$13.42	Actual		
2020	\$51.29	Actual	\$16.56	Actual		
2021	\$53.50	Actual	\$17.28	Actual		
2022	\$76.29	Actual	\$24.64	Actual		
2023	\$129.85	Actual	\$45.79	Actual		
2024	\$138.18	Actual	\$48.72	Actual		

What is R32 Hybrid?

Next Generation 2-Pipe Water Based VRF Technology

R32 Hybrid 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. R32 Hybrid 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, R32 Hybrid 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.

R32 Hybrid 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.





Where Can R32 Hybrid be Applied?







R32 Hybrid is the Complete Solution for Today's Modern Buildings

City Multi R32 Hybrid Systems allow for a flexible layout, making installation simple. With the use of centralised control, R32 Hybrid 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, R32 Hybrid 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. R32 Hybrid 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. R32 Hybrid removes 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 indoor units. R32 Hybrid minimises 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 – R32 Hybrid provides a truly integrated solution. R32 Hybrid delivers comfortable and stable air temperature control with no refrigerant in occupied spaces, minimising the need for leak detection.



The R32 Hybrid 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.

Mitsubishi Electric's R32 Hybrid Systems provide a commercially viable alternative solution to traditional R410A systems and addresses one of the most pressing challenges in the New Zealand air conditioning industry on how to tackle high charge volumes and lower GWP refrigerants in large systems. It offers customers a future-proof solution that delivers advanced cost efficiencies with improved corporate social responsibility.

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. R32 Hybrid 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 R32 Hybrid instead, removes this need and could provide as much as 30% in maintenance savings over 15 years.

Maintenance Costs based on a UK Hotel*



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



R32 Hybrid Key Features and Benefits

Provides Simultaneous Heating and Cooling with Full Heat Recovery

R32 Hybrid is an advanced simultaneous heating and cooling system with heat recovery and delivers a proven alternative solution to traditional R410A VRF or VRV systems.

Energy Saving

Save more energy through 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 possible by utilising the centralised control and scheduled operation.

Use Less Material and Equipment

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

The system does not require an external pump, valves, sensors, actuators, or other ancilliary controls associated with conventional 4-pipe chiller systems.

Flexible Design and Modularity Allow for a Manageable Phased Installation

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



Image for representation only.



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

R32 Hybrid 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 R32 Hybrid 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.

Quieter 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. R32 Hybrid 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, R32 Hybrid offers on average a 10% increase in sensible cooling at terminal compared to traditional VRF systems.

Combat the Rising Costs of R410A Refrigerant

The rapid and continuing price rises of R410A refrigerant is placing a strain on the viability of traditional VRF systems.

As a result Mitsubishi Electric have developed R32 Hybrid to ensure that both customers and installers not only have an alternative, but also get the added benefits of lower refrigerant costs, efficient performance and advanced controls.

R32 Minimal Global Warming Impact with 66% Less GWP Than R410A

Existing VRF units use R410A which has a GWP of 2,088, the newly adopted R32 refrigerant has a reduced GWP of 675 – that's 66% less than R410A.



R32 Hybrid Case Study – Cuba Precinct



A large scale regeneration project in the heart of Wellington city uses an R32 Hybrid system operating with a significantly reduced quantity of refrigerant and only water circulating in work areas to ensure tenant comfort, safety and affordability.



Project Overview

This major inner city regeneration project required an air conditioning system able to provide a safe, comfortable working environment with a small carbon footprint while reducing operational and maintenance costs.

Mitsubishi Electric's R32 Hybrid system more than satisfies these requirements – hence its logical selection as the preferred air conditioning system.

The Solution

Situated in what is often termed 'the true heart of Wellington', Cuba Precinct is the result of a large regeneration project designed to embody the character of Cuba Street and its environs, while providing space for ground floor retail businesses with office and apartment accommodation above. It involved preserving and injecting life into several historic buildings as well as raising new structures above those buildings.

In the latter part of 2020, the Greater Wellington Regional Council moved into the second and third floors of the newly created open plan office space – one of Wellington's largest with an area of 6000 square metres.

Designed to have a low carbon footprint and exceed the current New Building Standard, the refurbishment of the historic buildings was completed with these guiding principles in mind. The Mitsubishi Electric R32 Hybrid Air Conditioning System was therefore the logical choice for the large open plan office space.

This was due to its superior safety features and occupier comfort levels, as well as lower operating and maintenance costs when compared to traditional systems using R410A refrigerant.



The Hybrid Branch Controller is the heart of the system, linking outdoor and indoor units and efficiently performing heat exchange between both. The R32 Hybrid system delivers a world first with simultaneous heating and cooling. Heat is recovered and redistributed, negating the need for a separate heating system. It uses a unique two-pipe configuration, ie, a reduced number of pipes which also reduces the installation cost and time.

A significant safety feature is the use of water throughout the pipework in occupied spaces. This means that refrigerant (R32) is only used in the system between the outdoor condensers and the Hybrid Branch Controllers (HBCs) – well away from any occupied spaces. This removes the need for expensive leak detection equipment in occupied spaces – resulting in reduced maintenance costs as there is no requirement for annual leak detection checks.

Hybrid Branch Controllers are the heart of the system. They link outdoor units to indoor units and are responsible for heat exchange between refrigerant-controlled outdoor units and water-based indoor circuits to indoor units. Water is circulated to indoor units by energy efficient pumps.



Jason Mann Photography

R32 Hybrid Case Study – Cuba Precinct

Plastic piping is used to transport water throughout occupied spaces instead of the traditional soldered copper piping used to transport refrigerant. This feature combined with the unique 2-pipe heat recovery system – rather than a conventional 4-pipe chiller system – means less piping is installed and none of the extra controls associated with a 4-pipe system are required - amounting to significant installation cost savings.

The modular design and small footprint of the R32 Hybrid System along with its flexible duct layout allows airflow patterns to be arranged to suit the application, letting building owners manage a phased installation – a plus when it comes to installation budgets and their inevitable variances.

Outdoor units all have simultaneous heating and cooling and heat recovery. Indoor units are concealed within the ceiling space making for unobtrusive air conditioning while preserving the aesthetic of the working space and overall appearance of the room. Quiet operation is another feature of these units.

Low noise levels (due to the use of water instead of refrigerant in the terminal fan coils among other noise-reducing features), more stable milder off-coil temperatures, the removal of draught potential from office spaces, faster defrosts, no critical refrigeration concerns and less risk to the environment and humans all contribute to a system that provides comfort with simplified maintenance and a significant cut in long-term energy costs.

Using the system's flexible master and individual remote controls enables efficient and economic management of airflows, heating and air conditioning levels throughout the building. As well as a master control, individual room units have remote controls of their own.

The cost of R410A refrigerant continues to rise rapidly as a deterrent to its use in air conditioning systems due to its high GWP (Global Warming Potential). Mitsubishi Electric's R32 Hybrid System leverages the low GWP of R32 refrigerant (about one third that of conventional R410A refrigerant), lower refrigerant costs, a small carbon footprint and reduced running costs to provide an efficient system with built-in future proofing able to provide high comfort levels while complying with environmental legislation.





Installation Summary

R32 Hybrid Systems

R32 Outdoor Units

- 1 x PURY-M250YNW-A1-BS
- 4 x PURY-M350YNW-A1-BS
- 2 x PURY-M450YNW-A1-BS
- 4 x PURY-M500YNW-A1-BS

Hybrid Branch Controllers

• 17 x CMB-WM108V-AA

Controls

- 1 x AE-200E Touch Screen Centralised Controller with BACnet Licence
- 1 x EW-50 Expansion Module
- 33 x PAR-U02MEDA-E Local Hardwired Controllers

Hybrid Indoor Units

- 2 x PEFY-WP32VMA-E Medium Static Ducted Units
- 1 x PEFY-WP40VMA-E Medium Static Ducted Unit
- 1 x PEFY-WP50VMA-E Medium Static Ducted Unit
- 1 x PEFY-WP63VMA-E Medium Static Ducted Unit
- 6 x PEFY-WP71VMA-E Medium Static Ducted Units
- 10 x PEFY-WP80VMA-E Medium Static Ducted Units
- 3 x PEFY-WP100VMA-E Medium Static Ducted Units
- 15 x PEFY-WP125VMA-E Medium Static Ducted Units
- 4 x PLFY-WP20VFM-E Compact Cassette Units
- 7 x PLFY-WP25VFM-E Compact Cassette Units
- 8 x PLFY-WP32VFM-E Compact Cassette Units
- 1 x PLFY-WP32VBM-E Standard Cassette Unit
- 2 x PLFY-WP40VBM-E Standard Cassette Units
- 2 x PKFY-WL20VLM-E High Wall Units
- 2 x PKFY-WL25VLM-E High Wall Units

Split Systems

Condensing Units

- 2 x PUZ-ZM100VKA-A
- 1 x MUZ-GL35VGD

High Wall Units

- 2 x PKA-M100KAL
- 1 x MSZ-GL35VGD

Hardwired Controllers

• 2 x PAR-33MAA

M-Net Interfaces

- 1 x PAC-SJ95MA-E M-Net Interface
- 1 x MAC-334IF M-Net Interface



Key Features

Safety, comfort, efficiency and reduced running costs feature heavily in the Mitsubishi Electric R32 Hybrid System.

Less piping and leak detection equipment significantly reduces installation costs.

Quiet operation and the reduction of operational draught from office spaces provides excellent comfort levels in occupied areas.

R32 refrigerant has a significantly lower GWP than R410A refrigerant and is also much cheaper making it the logical choice when selecting an air conditioning system.



R32 Hybrid Technical System Overview

R32 Hybrid is based on a 2-Pipe Heat Recovery VRF System but uses water as a heat exchange medium between the Hybrid Branch Controller (HBC) 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.



Image for representation only.

Model		
Lineup	Main HBC Only	Main HBC + Sub HBC
Vertical		

Vertiour								
Outdoor Unit Size	Main HBC Model	Total IDU Connection	Sub HBC Qty	Total IDU Connection	Sub HBC Qty	Total IDU Connection	Sub HBC Qty	Total IDU Connection
200	CMB- WM350F-AA	100-170 ^{*1}	1	100-300	2	100-300	3	100-300
250	CMB- WM350F-AA	125-170 ^{*1}	1	125-375	2	125-375	3	125-375
300	CMB- WM350F-AA	150-170 ^{*1}	1	150-420*1	2	150-450	3	150-450
350	CMB- WM350F-AA	N/A ^{*1}	1	175-420*1	2	175-525	3	175-525
400	CMB- WM500F-AA	N/A ^{*1}	1	200-420*1	2	200-600	3	200-600
450	CMB- WM500F-AA	N/A ^{*1}	1	225-420*1	2	225-670*1	3	225-675
500	CMB- WM500F-AA	N/A ^{*1}	1	250-420*1	2	250-670*1	3	250-750

*1 Limited by HBC.

Model Lineup Horizontal	Main HI	BC Only	Main HBC + Sub HBC				
Outdoor Unit Size	Main HBC Qty	Total IDU Connection	Sub HBC Qty	Total IDU Connection	Sub HBC Qty	Total IDU Connection	
200	1	100-300	1	100-300	2	N/A	
250	1	125-375	1	125-375	2	N/A	
300	1-2	150-450	1	150-450	2 ^{*2}	150-450	
350	1-2	175-525	1	175-525	2 ^{*2}	175-525	
400	2	200-600	1	200-600	2	200-600	
450	2	225-675	1	225-675	2	225-675	
500	2	250-750	1	250-750	2	250-750	

*2 2x sub HBC only available if there are 2x Main HBC.

R32 Air Source Outdoor Unit

Utilising the City Multi PURY-EM-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 EM High COP Models Only

Size	200	250	300	350	400	450	500	
Cooling (kW)	22.4	28.0	33.5	40.0	45.0	50.0	56.0	
Heating (kW)	25.0	31.5	37.5	45.0	50.0	56.0	63.0	

Piping Length



R Refrigerant Pipe 🖤 Water Pipe								
Rei	irigerant Piping Lengths	Maximum Meters [Feet]						
R	Distance between heat source and HBC	110 [360]						
W	Farthest indoor unit from HBC controller	60 [196]						
Vei	tical 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						
R	HBC/HBC controller	15 (10) [49 (32)]* ¹						

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

Hybrid Branch Controller (HBC) Horizontal

A - Plate Heat Exchangers

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

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

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

During mixed mode, one set provides hot water while the other provides cold water to its respective flow header.

B - Pumps

Each set of Plate Heat Exchangers has a Water Pump.

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

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

C - Valve Block

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

This Valve Block has two features;

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

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

Connection to slave HBC

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

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



Hybrid Branch Controller (HBC)

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 R32 Hybrid Technology.

Туре	Main Horiz	zontal HBC	Main Ver	tical HBC	Sub Horizontal HBC		
Model	AN ANTINE OF	AP ALLINGTON			annu:	annum.	
	CMB-WM108V-	CMB-WM1016V-	CMB-WM350F-	CMB-WM500F-	CMB-WM108V-	CMB-WM1016V-	
	AA	AA	AA	AA	BB	BB	
Number of Branches	8	16	6	6	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				•	•	•	•	•	•		•	•	•
Compact Cassette	PLFY-WL VFM-E		•	•	•	•	•	•						
Well Meunted	PKFY-WL VLM-E		•	•	•	•	•	•						
wai wounted	PKFY-WL VKM-E								•	•		•		
Floor Standing Concealed	PFFY-WP VLRMM-E				•	•	•	•	•					
Floor Standing Exposed	PFFY-WL VEM-A				•	•	•	•	•					

Controller Range

Remote Controllers





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

Advanced M-NET Controller PAR-U02MEDA

- Dual set point option
- Occupancy sensor •
- Brightness sensor
- Energy saving .
- Touch panel and backlit LCD screen
- LED indicator Temperature and

N

.

- ON/OFF
- Temperature control
- Fan speed
- Mode

Centralised Controllers and BMS Interface



AE-200E

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



MelcoBEMS Mini BMS Interface

- MODBUS
- BACnet MS/TP



AT-50B

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



BAC-HD150 BMS Interface

- BACnet
- Connects directly to M-NET

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



3.5" Touch Panel

Featuring a 3.5" HVGA Full Colour LCD Touchscreen.

Bluetooth Functionality

The controller can communicate with a smart phone or tablet device via Bluetooth. Operation and Setting App is available on the App Store.

Hotel Setting

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

Logo Customisation

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

Customisable Colour Options

180 different colour patterns can be selected for control parameters or background. Available in White and Premium Black.

Simplified Controller PAC-YT52CRA

- humidity sensor
- Weekly schedule
- Error information

28 810 (V)

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Patented R32 Hybrid Technology

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





Model				PURY-M200YNW-A1 (-BS)	PURY-M250YNW-A1 (-BS)		
Power source				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 53	8 40		
Coolina	Current input		A	9.3-8.8-8.5	14.1-13.4-12.9		
5	EER		kW / kW	4.05	3.33		
	-	Indoor	W.B.	15.0~24.0°C	; (59~75°F)		
	Temp. range *3	Outdoor	D.B.	-50~520°C (23~126°F)			
		1	kW	25	31.5		
	Capacity (Nomin	al) ^2	BTU / h	85,300	107,500		
Power input	Power input		kW	6.39	9.15		
Heating	Current input		A	10.7-10.2-9.8	15.4-14.6-14.1		
	COP		kW / kW	3.91	3.44		
	T *0	Indoor		15.0~27.0°C	: (59~81°F)		
	Temp. range "3	Outdoor	W.B.	-20.0~15.5°	C (-4~60°F)		
Indexes (1)		Total capacity		50~150% of outo	oor unit capacity		
Indoor unit co	nnectable "4	Model / Quantity		WP/WL10~125/1~30 *4	WP/WL10~125/1~37 *4		
Sound pressu	re level (measured	in anechoic room)*	ō dB <a>	59.0/59.0	60.5/61.0		
Sound power level (measured in anechoic room) *5 dB <a< td=""><td>dB <a></td><td>76.0/78.0</td><td>78.5/80.0</td></a<>		dB <a>	76.0/78.0	78.5/80.0			
Refrigerant piping diameter High pressure r Low pressure r		mm (in.)	15.88 (5/	3) Brazed			
		Low pressure	mm (in.)	19.05 (3/4) Brazed	22.2 (7/8) Brazed		
	Type x Quantity			Propelle	r fan x 1		
Ty		Air flow rate		170	185		
	Air flow rate			2,833	3,083		
Fan		cfm		6,003	6,532		
	Control, Driving	mechanism		Inverter-control, Direct-driven by motor			
	Motor output		kW	0.92	x1		
	External static pr	ess. *6		0 Pa (0 r	nmH20)		
	Туре			Inverter scroll here	netic compressor		
Comproseor	Starting method			Inve	rter		
COMPLESSO	Motor output		kW	4.6	7.0		
	Case heater		kW	- (-	V)		
External finish	1			Pre-coated galvanized steel sheets (+powder coa	ting for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>		
Evternal dime	nsion HvWvD		mm	1,858 (1,798 without	it legs) x 920 x 740		
			in.	73-3/16 (70-13/16 withou	t legs) x 36-1/4 x 29-3/16		
	High pressure pr	otection		High pressure sensor, High press	ure switch at 4.15 MPa (601 psi)		
Protection	Inverter circuit (C	COMP./FAN)		Over-heat protection, C	Iver-current protection		
devices	Compressor						
Fan motor			-				
Refrigerant	Type x Original c	harge		R32 x 5.2 l	(g (12 lbs)		
Net weight			kg (lbs)	227 (501)		
Heat exchang	er			Salt-resistant cross	fin & copper tube		
Defrosting me	ethod			Auto-defrost mode (Reverse	d refrigerant cycle, Hot gas)		
Optional parts	3			Main HBC: CMB-WM108,1016V-AA, CMB-WM	350F-AA Sub HBC: CMB-WM108,1016V-BB		

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.).

- 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
- So busing the result of the res
- 5. Cooling mode/Heating mode.

6. 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.
- 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 DATA BOOK on installation restrictions.
- 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-M30	DOYNW-A1 (-BS)	PURY-M350YNW-A1 (-BS)			
				Single HBC	Double / Single HBC	Single HBC	Double / Single HBC		
Number of HE	3C controller			(Horizontal type)	(Horizontal type / Vertical type)	(Horizontal type)	(Horizontal type / Vertical type)		
Power source				3-phase 4-wire 380-400-415 V 50/60 Hz					
	Canaality (Marrie	al) 84	kW		33.5	40.0			
Gapacity (Noniniai)		al) I	BTU / h	114,300			136,500		
	Power input	t kW		11.65	9.88	14.93	12.15		
Cooling	Current input		A	19.6-18.6-18.0	16.6-15.8-15.2	25.2-23.9-23.0	20.5-19.4-18.7		
	EER		kW / kW	2.87 3.39		2.67	3.29		
	Temp range *3		W.B.		15.0~24.0°C	s (59~75°F)			
	Tomp. Tango J	Outdoor	D.B.		-5.0~52.0°C	(23~126°F)			
	Canacity (Nomin	al) *2	kW		37.5		45.0		
	oupuony (nonini		BTU / h		128,000		153,500		
	Power input	kW		11.00	10.33	13.14	12.16		
Heating	Current input	urrent input		18.5-17.6-17.0	17.4-16.5-15.9	22.1-21.0-20.3	20.5-19.5-18.7		
COP Temp. range *3			kW / kW	3.40	3.63	3.42	3.70		
		Indoor	D.B.	15.0~27.0°C (59~81°F)					
	1 0	Outdoor	W.B.	-2U.U~15.5°C (-4~60°F)					
Indoor unit co	onnectable *4	Total capacity		50~150% OF OUTGOOF UNIT CAPACITY					
Model / Quantity		WP/WLI	U~125/2~45 "4	WP/WLI	0~125/2~50"4				
Sound pressure level (measured in anechoic room) "5 dB <a>			dD <a>	C	0.0/06.5	0	10/02.0		
		0	15 00 (5/)) Prezod	1.0/03.0				
Refrigerant piping diameter		22.2	(7/8) Brazed	28.58	(1_1/8) Brazed				
	Type y Quantity	Low pressure	(III.)	Pror	neller fan y 1	20.00 Pror	eller fan y 2		
Type x Qu	Type x duantity	m ³ /min		1104	240	110	250		
	Air flow rate	Air flow rate			4 000		4 167		
Fan	7 III HO II IQIO		cfm		8.474	8,828			
	Control. Driving	mechanism		Inverter-control Direct-driven by motor					
	Motor output		kW		0.92 x 1	0.46 x 2			
	External static pr	'ess. *6		0 Pa (0 mmH20)					
	Туре				Inverter scroll herr	netic compressor			
0	Starting method				Inve	rter			
Compressor	Motor output		kW		8.0		9.6		
	Case heater		kW		- (-	V)			
External finis	h			Pre-	coated galvanized steel sheets (+powder coa	ting for -BS type) <munsell 1<="" 5y="" 8="" td=""><td>or similar></td></munsell>	or similar>		
External dime	ancion HyWyD		mm	1,858 (1,798 wi	ithout legs) x 920 x 740	1,858 (1,798 wit	hout legs) x 1,240 x 740		
			in.	73-3/16 (70-13/16 wi	thout legs) x 36-1/4 x 29-3/16	73-3/16 (70-13/16 wi	thout legs) x 48-7/8 x 29-3/16		
	High pressure pr	otection			High pressure sensor, High press	ure switch at 4.15 MPa (601 psi)			
Protection	Inverter circuit (C	COMP./FAN)			Over-heat protection, C	ver-current protection			
devices	Compressor				-				
Fan motor					-				
Refrigerant	Type x Original c	harge		R32 x	5.2 kg (12 lbs)	R32 x	8.0 kg (18 lbs)		
Net weight			kg (lbs)	2	27 (501)	2	/U (596)		
Heat exchang	er				Salt-resistant cross	tin & copper tube			
Detrosting m	ethod				Auto-defrost mode (Reverse	d retrigerant cycle, Hot gas)			
Uptional part	S			Main HBC: CMB-WM108,1016V-AA, CMB-WM350F-AA Sub HBC: CMB-WM108,1016V-BB					

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.).
Good D. (20°CD.B.) (68°FD.B.), Outdoor: 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.
 There are restrictions on compatible combinations among W-model, WP-model, and WL-model indoor units. Refer to DATA BOOK for detailed information.

5. Cooling mode/Heating mode.

- 6. 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.
- 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 DATA BOOK on installation restrictions.
- 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-M400YNW-A1 (-BS)	PURY-M450YNW-A1 (-BS)	PURY-M500YNW-A1 (-BS)		
Power source					3-phase 4-wire 380-400-415 V 50/60 Hz			
	0 11 11 1	11. *4	kW	45.0	50.0	56.0		
	Capacity (Nomina	al) ^1	BTU / h	153,500	170,600	191,100		
	Power input		kW	15.15	15.47	22.25		
Cooling	Current input		A	25.5-24.2-23.4	26.1-24.8-23.9	37.5-35.6-34.3		
	EER		kW / kW	2.97	3.23	2.51		
	Temp 10000 \$0	Indoor	W.B.		15.0~24.0°C (59~75°F)			
	Temp. range 3	Outdoor	D.B.		-5.0~52.0°C (23~126°F)			
	Consoity (Nomin	ol\ *0	kW	50.0	56.0	63.0		
	Capacity (NOTITIE	al) Z	BTU / h	170,600	191,100	215,000		
	Power input		kW	14.08	16.18	18.26		
Heating	Current input		A	23.7-22.5-21.7	27.3-25.9-25.0	30.8-29.2-28.2		
	COP		kW / kW	3.55	3.46	3.45		
	Tomp rango *3	Indoor	D.B.		15.0~27.0°C (59~81°F)			
	Tellip.Taliye 5	Outdoor	W.B.		-20.0~15.5°C (-4~60°F)			
Indoor unit co	nnortahlo */	Total capacity			50~150% of outdoor unit capacity			
Indoor unit oo		Model / Quantity			WP/WL10~125/2~50 *4			
Sound pressu	re level (measured	in anechoic room)*5	dB <a>	65.0/69.0	65.5/70.0	63.5/64.5		
Sound power level (measured in anechoic room) $*5$ dB <a>		dB <a>	83.0/88.0	83.0/89.0	82.0/84.0			
Refrigerant piping diameter High pressure Low pressure		mm (in.)		19.05 (3/4) Brazed				
		mm (in.)		28.58 (1-1/8) Brazed				
	Type x Quantity				Propeller fan x 2			
			m³/min	3	15	295		
	Air flow rate	Air flow rate		5,250	5,283	4,917		
Fan			cfm	11,123	11,193	10,416		
	Control, Driving r	nechanism		Inverter-control, Direct-driven by motor				
	Motor output		kW	0.4	6 x 2	0.92 x 2		
	External static pr	ess. *6			0 Pa (0 mmH20)			
	Туре				Inverter scroll hermetic compressor			
Compressor	Starting method				Inverter			
	Motor output		kW	12.2	13.1	17.4		
	Case heater		kW		- (- V)			
External finish				Pre-coated galvanized	d steel sheets (+powder coating for -BS type) <munse< td=""><td>LL 5Y 8/1 or similar></td></munse<>	LL 5Y 8/1 or similar>		
External dime	noion UvWvD		mm	1,858 (1,798 withou	ıt legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,750 x 740		
External unne			in.	73-3/16 (70-13/16 withou	ut legs) x 48-7/8 x 29-3/16	/3-3/16 (/U-13/16 without legs) x 68-15/16 x 29- 3/16		
	High pressure pro	otection		High	pressure sensor, High pressure switch at 4.15 MPa (601	l psi)		
Protection	Inverter circuit (C	OMP./FAN)			Over-heat protection, Over-current protection			
devices	Compressor				-			
Fan motor -					-			
Refrigerant	Type x Original cl	narge		R32 x 8.0 kg (18 lbs)	R32 x 10.8	kg (24 lbs)		
Net weight			kg (lbs)	273 (602)	293 (646)	337 (743)		
Heat exchang	Pr				Salt-resistant cross fin & copper tube			
Defrosting me	thod				Auto-defrost mode (Reversed refrigerant cycle)			
Optional parts				Main HBC: CMB-WM108,1016V-AA, CMB-WM500F-AA Sub HBC: CMB-WM108,1016V-BB				

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.).
- 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 coolino/heating mixed operation
- Costa, (Costa), Costa, (Costa), Costa, (Costa), (Cost
- 5. Cooling mode/Heating mode

- 6. 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.
- Consult your dealer about the specification when setting external static pressure of
 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 DATA BOOK on installation restrictions.
- 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-EM200YNW-A1 (-BS)	PURY-EM250YNW-A1 (-BS)				
Power source)			3-phase 4-wire 380-4	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	5.13	7.69				
Coolina	Current input		A	8.6-8.2-7.9	12.9-12.3-11.8				
5	EER		kW / kW	4.36	3.64				
		Indoor	W.B.	15.0~24.0°C	(59~75°F)				
	Temp. range *3	Outdoor	D.B.	-5.0~52.0°C	(23~126°F)				
			kW	25.0	31.5				
	Capacity (Nomin	Capacity (Nominal) *2		85.300	107.500				
	Power input		kW .	6.23	8.84				
Heating	Current input	Current input		10.5-9.9-9.6	14.9-14.1-13.6				
5	COP	COP		4 01	3 56				
		Indoor	D.B.	15.0~27.0°C	(59~81°F)				
	Temp. range *3	Outdoor	W.B.	-20 0~15 5°C	-20.0~15.5°C (-4~60°F)				
		Total capacity		50~150% of outdo	por unit capacity				
Indoor unit connectable *4 Model / Quantity			WP/WI10~125/1~30 *4	WP/WI10~125/1~37 *4					
Sound pressure level (measured in anechoic room)*		*5 dB <a>	59 0/59 0	60 5/61 0					
Sound nower	level (measured in	anechoic room) *5	dB <a>	76 0/78 0	78.5/80.0				
		High pressure	mm (in.)	15.88 (5/8) Brazed				
Retrigerant piping di	iping diameter	Low pressure	mm (in)	19.05 (3/4) Brazed	22 2 (7/8) Brazed				
Ţ	Type x Quantity			Propeller	fan x 1				
	.,,,,		m ³ /min	170	185				
	Air flow rate	Air flow rate		2 833	3 083				
Fan			cfm	6,003	6,532				
	Control. Driving	rol Driving mechanism		Inverter-control Dire	Inverter-control. Direct-driven by motor				
	Motor output		kW	0.92	x 1				
	External static pr	ess. *6		0 Pa (0 m	mH20)				
	Туре			Inverter scroll herr	netic compressor				
	Starting method			Inver	ter				
Compressor	Motor output		kW	4.5	6.7				
	Case heater		kW	- (-)	v)				
External finis	h			Pre-coated galvanized steel sheets (+powder coati	no for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>				
			mm	1.858 (1.798 without	t leas) x 920 x 740				
External dim	ension HxWxD		in.	73-3/16 (70-13/16 without	legs) x 36-1/4 x 29-3/16				
	High pressure pr	otection		High pressure sensor. High pressu	re switch at 4.15 MPa (601 nsi)				
Protection	Inverter circuit (0	COMP./FAN)		Over-heat protection. Ov	ver-current protection				
devices	Compressor			-					
Fan motor			-						
Refrigerant Type x Original charge				B32 x 5 2 kr	- R32 x 5 2 kg (12 lhc)				
Net weight	, , , , , , , , , , , , , , , , , , ,	3-	kg (lbs)	231 (5	510)				
Heat exchance	ier			Salt-resistant cross fi	Salt-resistant cross fin & aluminium tube				
Defrosting m	, ethod			Auto-defrost mode (Reversed	refrigerant cycle. Hot gas)				
Optional part	S			Main HBC: CMB-WM108,1016V-AA. CMB-WM3	550F-AA Sub HBC: CMB-WM108,1016V-BB				

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.). 5.50CP (27°CD.B./42°FW.B.). 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. There are restrictions on compatible combinations among W-model, WP-model, and WL-model indoor units. Refer to DATA BOOK for detailed information.

5. 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.
- 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 DATA BOOK on installation restrictions
- 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-EM30	OYNW-A1 (-BS)	PURY-EM350YNW-A1 (-BS)					
Number of HBC controller				Single HBC	Double / Single HBC	Single HBC	Double / Single HBC				
Number of H	3C controller			(Horizontal type)	(Horizontal type / Vertical type)	(Horizontal type)	(Horizontal type / Vertical type)				
Power source)			()/ /	3-phase 4-wire 380-400-415 V 50/60 Hz						
	0 11 01 1	11. 4.4	kW	3	33.5	40.0					
	Capacity (Nomir	ial) *1	BTU / h	114.300			136,500				
	Power input		kW	10.03	8.52	13.91	11.33				
Cooling	Current input		A	16.9-16.0-15.5	14.3-13.6-13.1	23.4-22.3-21.5	19.1-18.1-17.5				
	EER		kW / kW	3.33 3.93		2.87 3.53					
	Tomp rongo *0	Indoor	W.B.		15.0~24.0°C (59~75°F)					
Outdoor		Outdoor	D.B.	-5.0~52.0°C (2		23~126°F)					
	Capacity (Nomin	ual) *0	kW	3	37.5		45.0				
	Capacity (NOTIII	iai) Z	BTU / h	12	8,000		153,500				
	Power input		kW	10.46	9.93	13.10	12.16				
Heating	Current input		A	17.6-16.7-16.1	16.7-15.9-15.3	22.1-21.0-20.2	20.5-19.5-18.7				
	COP		kW / kW	3.58	3.77	3.43	3.70				
	Temp_range *3	Indoor	D.B.		15.0~27.0°C (59~81°F)					
	Tomp. Tange 0	Outdoor	W.B.		-20.0~15.5°C	-4~60°F)					
Indoor unit c	onnectable *4	Total capacity			50~150% of outdoor unit capacity						
indoor unit of		Model / Quantity		WP/WL10~	-125/2~45 *4	WP/WL10~125/2~50 *4					
Sound pressure level (measured in anechoic room)*5 $$ dB $<$ A $>$			5 dB <a>	61.	0/67.0	62.5/64.0					
Sound power	Sound power level (measured in anechoic room) *5 $dB < A >$		80.	0/86.5	{	31.0/83.0					
Refrigerant p	iping diameter	High pressure	mm (in.)		15.88 (5/8)	Brazed					
5 1	Low pressure mm (in.		mm (in.)	22.2 (7,	/8) Brazed	28.58	(1-1/8) Brazed				
	Type x Quantity		37.1	Propel	ler fan x 1	Proj	peller fan x 2				
	Air flow rate		m°/min		240		250				
-			L/s	4	,000		4,167				
Fan	Oristaal Datate	cfm		8,4/4 8,828							
	Control, Driving	Itrol, Driving mechanism		Inverter-control, Direct-driven by motor							
	Wotor output	***	KVV	0.9	92 X I	U.46 X 2					
	External static p	less. o		0 Pa (0 mmH20)							
	Starting mathod				Inverter scron nernite	alo compressor					
Compressor	Motor output		kW		77	1	9.6				
	Case heater		kW		1.1 (V	1	5.0				
External finis	h		17.1.1	Pre-co	v -) -	n for -BS tyne) /MUNSELL 5V 8/1	or similar >				
			mm	1 858 (1 708 with	aited galvanized siter siters (+ powder coatin	1 858 /1 708 wi	thout leas) v 1 240 v 740				
External dime	ension HxWxD		in	73-3/16 (70-13/16 with	nut lens) x 36-1/4 x 29-3/16	73_3/16 (70_13/16 wi	thout legs) x 1,240 x 140				
	High pressure pr	otection		10 0/10 (10 10/10 with	High pressure sensor. High pressure	e switch at 4 15 MPa (601 nsi)					
Protection	Inverter circuit (COMP/FAN)			Over-heat protection Over	er-current protection					
devices	Compressor				-						
	Fan motor				-						
Refrigerant	efrigerant Type x Original charge			R32 x 5.2	2 kg (12 lbs)	R32 x	8.0 kg (18 lbs)				
Net weight	, , , , v	*	kg (lbs)	231	(510)	2	276 (609)				
Heat exchang	er				Salt-resistant cross fin	& aluminium tube	· · /				
Defrosting m	ethod				Auto-defrost mode (Reversed	refrigerant cycle, Hot gas)					
Optional part	S			Mai	Auto-uenost mode (neversed remgerant cycle, not gas) Main HBC: CMB-WM108.1016V-AA. CMB-WM350F-AA Sub HBC: CMB-WM108.1016V-RB						

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.).
 Good D. (20°CD D.) (20°CD

- 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.
 There are restrictions on compatible combinations among W-model, WP-model, and WL-model indoor units. Refer to DATA BOOK for detailed information.
- 5. Cooling mode/Heating mode.

- 6. 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.
- 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 DATA BOOK on installation restrictions.
- 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-EM400YNW-A1 (-BS)	PURY-EM450YNW-A1 (-BS)	PURY-EM500YNW-A1 (-BS)				
Power source					3-phase 4-wire 380-400-415 V 50/60 Hz					
	Our setter (Newsta	-1) *4	kW	45.0	50.0	56.0				
	Capacity (Nomin	al) " I	BTU / h	153,500	170,600	191,100				
Cooling	Power input		kW	13.84	15.24	18.06				
	Current input		A	23.3-22.1-21.3	25.7-24.4-23.5	30.4-28.9-27.9				
	EER		kW / kW	3.25	3.28	3.10				
	Tomo rongo *0	Indoor	W.B.	15.0~24.0°C (59~75°F)						
	Terrip. Tariye is	Outdoor	D.B.		-5.0~52.0°C (23~126°F)					
	Canacity (Namin	al) *0	kW	50.0	56.0	63.0				
	Gapacity (NOTITI	BTU		170,600	191,100	215,000				
	Power input		kW	13.88	15.77	17.45				
Heating	Current input		A	23.4-22.2-21.4	26.6-25.2-24.3	29.4-27.9-26.9				
	COP		kW / kW	3.60	3.55	3.61				
	Tomp rango *3	Indoor	D.B.		15.0~27.0°C (59~81°F)					
	Terrip. Tariye 5	Outdoor	W.B.		-20.0~15.5°C (-4~60°F)					
Indoor unit co	nnoctable */	Total capacity			50~150% of outdoor unit capacity					
	Annoolabio 4	Model / Quantity			WP/WL10~125/2~50 *4					
Sound pressu	ire level (measured	in anechoic room)*5	dB <a>	65.0/69.0	65.5/70.0	63.5/64.5				
Sound power level (measured in anechoic room) *5		dB <a>	83.0/88.0 83.0/89.0		82.0/84.0					
Refrigerant ni	ning diameter	High pressure	mm (in.)		19.05 (3/4) Brazed					
nonigorani pi	ping unanioror	Low pressure	mm (in.)		28.58 (1-1/8) Brazed					
	Type x Quantity				Propeller fan x 2					
	Air flow rate L/		m³/min	3	15	295				
			L/s	5,1	250	4,917				
Fan		cfm		11,	123	10,416				
	Control, Driving	Driving mechanism								
	Motor output		kW	0.4	6 x 2	0.92 x 2				
	External static pr	ess. *6			0 Pa (0 mmH20)					
	Туре				Inverter scroll hermetic compressor					
Compressor	Starting method				Inverter					
	Motor output		kW	11.1	12.7	13.8				
	Case heater		kW		- (- V)					
External finis	1			Pre-coated galvanized	d steel sheets (+powder coating for -BS type) <munsel< td=""><td>L 5Y 8/1 or similar></td></munsel<>	L 5Y 8/1 or similar>				
External dima	unation HydWyD		mm	1,858 (1,798 withou	it legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,750 x 740				
External dimension HxWxD in.		in.	73-3/16 (70-13/ 48-7/8 >	16 without legs) x 29-3/16	73-3/16 (70-13/16 without legs) x 68-15/16 x 29-3/16					
	High pressure protection			High	pressure sensor, High pressure switch at 4.15 MPa (601	psi)				
Protection	Protection Inverter circuit (COMP./FAN)				Over-heat protection, Over-current protection					
devices Compressor			-	-	-					
Fan motor		-	-	-						
Refrigerant Type x Original charge		R32 x 8.0 kg (18 lbs)	R32 x 10.8 l	rg (24 lbs)						
Net weight			kg (lbs)	280 (618)	305 (673)	348 (768)				
Heat exchanger					Salt-resistant cross fin & aluminium tube					
Defrosting me	ethod			Auto-defrost mode (Reversed refrigerant cycle)						
Optional parts	S			Main HBC: CMB-V	VM108,1016V-AA, CMB-WM500F-AA Sub HBC: CMB-1	WM108,1016V-BB				

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.
- 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.
 - 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.

HBC Controller



Horizontal Main-HBC

Model				CMB-WM108V-AA						CMB-WM1016V-AA				
Number of bra	inch			8					16					
Damaraa								1-phase 22)-230-240 V					
Power source				50 Hz 60 Hz				50 Hz 60 Hz			Hz			
Power input		Cooling	kW					0.45/0.	46/0.47					
(220/230/240))	Heating	kW		0.45/0.46/0.47									
Current input Cooling		A		2.89/2.83/2.79										
(220/230/240))	Heating	A					2.89/2.	83/2.79					
Sound pressu	re level (measured	in anechoic room)	dBA					4	1					
Applicable ter	nperature range of	installation site	°C (D.B.)					0~	-32					
External finish	1					Galvanized s	ieel plate (Lower	part drain pan: P	e-coated galvan	ized sheets + p	owder coating)			
Connectable (outdoor unit						PURY-M200~50	00YNW-A1(-BS)/	PURY-EM200~5	500YNW-A1(-BS)			
Indoor unit ca	pacity connectable	to 1 branch			Model	WP/WL80 or sm	aller (Use joint pi	ipe combining 2	pranches when th	ie total unit capa	city exceeds WP/	WL80.)		
External dime	nsion H x W x D		mm			300 x 1,520 x 63	0				300 x 1,800 x 630			
Entornar anno			in.	11-13/16 x 59-7/8 x 24-13/16					11-13/16 x 70-7/8 x 24-13/16					
		To outdoor unit			Connectable outdoor unit capacity Connect						able outdoor unit	capacity		
				M200	M250/300	M350	M400	M450/500	M200	M250/300	M350	M400	M450/500	
Refrigerant pi	ping diameter	High press. pipe (O.D.)	mm (in.)	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	
		Low press. pipe (O.D.)	mm (in.)	19.05 (3/4) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	19.05 (3/4) Brazed	22.2 (7/8) Brazed	19.05 (3/4) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	19.05 (3/4) Brazed	22.2 (7/8) Brazed	
		To Main HBC	mm (in.)	15.88 (5/8) Brazed										
	To Sub HBC								-					
	Connection size	Inlet/Outlet (0.D.)	mm (in.)					2	2					
				WF	/WL10-100		20		WP,	/WL101-200		25.8		
Water nining	Field pipe size	Inlet/Outlet (I.D.)	mm (in.)	WP/	WL201-300		30		WP/	WL301-400		33.3		
diameter				WP/	WL401-500		36.2		WP/	WL501-525		36.8		
	To indoor unit								-					
	Connection size	Inlet/Outlet (0.D.)	mm (in.)					2	2					
	Field pipe size	Inlet/Outlet (I.D.)	mm (in.)	W	P/WL10-50		20		W	P/WL10-50		20		
Field designation	Field drain pine size			WF	/WL51-125		30	0.0.00	WF	7/WL51-125		30		
Not woight	-ield drain pipe size mm				00 (4))) [0c (010)	h watar]	U.D. 32	(1-1/4)	00 /04	7) [111 /0/E)	watarl		
Standard atta	Vet weight kg (Il) δο (190) (9ο (212) with water] 98 (217) (111 (245) with water]										
Ontional parts	Sument Mccessol	у					Diani conn	ection hihe (Mitti	HEYIDLE HOZE SHO	i ilisulation)				
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 R32 refrigerant.

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

*Please install the HBC controller in a place where noise will not be an issue.

*Please attach an expansion vessel (field supply).

*Please use copper or plastic pipes for the water circuit. Do not use steel or stainless steel pipework. Furthermore, when using copper pipework, use a non-oxidative brazing method. Oxidation of the pipework will reduce the pump life.

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

*Please install an air purge valve where air will gather in the water circuit.

*Please install a pressure reducing valve and a strainer on the water supply to the HBC controller.

*Please refer to the databook or the installation manual for the specified water quality.

*This unit is not designed for outside installations.

*Please always make water circulate or pull out the circulation water completely when not using it. (Please do not use it as a drinking water).

*Please do not use ground water and well water.

*When installing the HBC unit in an environment which may drop below 0 °C, please add antifreeze to the circulating water. (Refer to the data book and the installation manual).

*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



Vertical Main-HBC

Model					СМВ	-WM350F-AA		CMB-WM500F-AA				
Number of bra	nch						6	;				
Damas aansaa							1-phase 220	-230-240 V				
Power source				5) Hz		60 Hz		50 Hz		60 Hz	
Power input		Cooling	kW	1.50/1.50								
(220/230/240)	Heating	kW	1.50/1.50								
Current input		Cooling	A				6.82/6.5	52/6.25				
(220/230/240)	Heating	A				6.82/6.5	52/6.25				
Sound pressure level (measured in anechoic room) dBA			dBA				5	4				
Applicable temperature range of installation site °C (D.B			°C (D.B.)				0~	40				
External finish							Galvanized	steel plate				
Connectable o	utdoor unit			PURY-M200-	~350YNW-A1(-BS)/PURY-EM200	~350YNW-A1(-BS)	PURY-M400~	-500YNW-A1(-BS)/	PURY-EM400~500Y1	NW-A1(-BS)	
Indoor unit ca	pacity connectable	to 1 branch			Model WP/	WL80 or smaller (U	lse joint pipe combining 2 b	ranches when the total	unit capacity exce	eds WP/WL80.)		
Eutomal dima	anian II u W u D		mm				1,500 x 8	00 x 500				
External dimer	ISIOII H X W X D		in.				59-1/16 x 31-1	/2 x 19-11/16				
		To outdoor unit			Connectabl	e outdoor unit capa	city		Connectable out	door unit capacity		
		to outdoor unit		M200		M250/300	M350	M40	00	M450,	/500	
Refrigerant pip	oing diameter	High press. pipe (O.D.)	mm (in.)	15.88 (5/8) Brazed		15.88 (5/8) Brazed	15.88 (5/8) Brazed	19.05 Braz	(3/4) red	19.05 Braz	(3/4) red	
		Low press. pipe (O.D.)	mm (in.)	19.05 (3/4) Brazed		22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	28.58 (Braz	1-1/8) red	28.58 (Braz	1-1/8) red	
		To Main HBC	mm (in.)	Brazoa		514204	-			Dial		
	To Sub HBC						-					
	Connection size	Inlet/Outlet (0.D.)	mm (in.)	42								
	Field pipe size	Inlet/Outlet (I.D.)	mm (in.)	As per indoor unit								
	To indoor unit						-					
	Connection size	Inlet/Outlet (0.D.)	mm (in.)				22	2				
				Total down-	Piping len	gth from Main-HBC	to farthest indoor unit	Total down-	Piping length fr	om Main-HBC to farth	iest indoor unit	
				stream Indoor Unit	Max 20m	Max 40m	Max 60m	stream indoor unit	Max 20m	Max 40m	Max 60m	
				WP/WI 10	12	12	12	WP/WI 10	12	12	12	
Water piping				WP/WL11 - 15	12	12	15.5	WP/WL11 - 15	12	12	15.5	
diameter				WP/WL16 - 25	15.5	15.5	15.5	WP/WL16 - 25	15.5	15.5	15.5	
		Inlat/Outlat (LD.)		WP/WL26 - 32	15.5	19.9	19.9	WP/WL26 - 32	15.5	19.9	19.9	
	Field pipe size	(Min.)	mm (in.)	WP/WL33 - 50	19.9	19.9	19.9	WP/WL33 - 50	19.9	19.9	19.9	
		(19111.)		WP/WL51 - 63	19.9	25.2	25.2	WP/WL51 - 63	19.9	25.2	25.2	
				WP/WL64 - 80	25.2	25.2	25.2	WP/WL64 - 80	25.2	25.2	25.2	
				WP/WL81 - 100	25.2	25.2	32.6	WP/WL81 - 100	25.2	25.2	32.6	
				WP/WL101 - 150	32.6	32.6	32.6	WP/WL101 - 150	32.6	32.6	32.6	
				WP/WL151 - 250	32.6	32.6	39.6	WP/WL151 - 250	32.6	32.6	39.6	
				WP/WL251 - 300	32.6	39.6	50.8	WP/WL251 - 300	32.6	39.6	50.8	
			WP/WL301 - 750	50.8	50.8	50.8	WP/WL301 - 750	50.8	50.8	50.8		
Field drain nine size mm (in			mm (in)				0 D 267	(1-1/16)				
Net weight			ka (lbs)		196 (433)	[216 (477) with wat	er]	,,	209 (461) [233	(514) with water]		
Standard attac	hment Accessor	V			100 (100)	[= (/			200 (101) [200	(or i) mill mator]		
Ontional parts		1										
optional parto												

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 R32 refrigerant.

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

*Please install the HBC controller in a place where noise will not be an issue.

*Please attach an expansion vessel (field supply).

*Please use copper or plastic pipes for the water circuit. Do not use steel or stainless steel pipework. Furthermore, when using copper pipework, use a non-oxidative brazing method. Oxidation of the pipework will reduce the pump life.

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

*Please install an air purge valve where air will gather in the water circuit.

*Please install a pressure reducing valve and a strainer on the water supply to the HBC controller.

*Please refer to the databook or the installation manual for the specified water quality.

*This unit is not designed for outside installations.

*Please always make water circulate or pull out the circulation water completely when not using it. (Please do not use it as a drinking water).

*Please do not use ground water and well water.

*When installing the HBC unit in an environment which may drop below 0 °C, please add antifreeze to the circulating water. (Refer to the data book and the installation manual).

*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



Horizontal Sub-HBC

Model					CMB-WM	M108V-BB		CMB-WM1016V-BB					
Number of bra	anch			8 16									
Damaraa							1-phase 22	0-230-240 V					
Power source					50 Hz		60 Hz		50 Hz		60 Hz		
Power input		Cooling	kW		0.01/0.01/0.01								
(220/230/240))	Heating	kW				0.01/0	.01/0.01					
Current input		Cooling	A				0.14/0	.14/0.14					
(220/230/240))	Heating	А				0.14/0	.14/0.14					
Sound pressu	re level (measured	in anechoic room)	dBA					-					
Applicable ter	Applicable temperature range of installation site °C (D.E			0~32									
External finish				Galvanized steel plate									
Connectable outdoor unit								-					
Indoor unit ca	pacity connectable	to 1 branch		Ν	Nodel WP/WL80 or	smaller (Use optiona	al joint pipe combinii	ng 2 branches when the	e total unit capacity	exceeds WP/WL80.)			
External dime	nsion H x W x D		mm		310 x 93	30 x 630			310 x 1,2	210 x 630			
External anno			in.		12-1/4 x 36-5	5/8 x 24-13/16			12-1/4 x 47-11	/16 x 24-13/16			
To HBC							To Horizont	tal Main HBC					
Connection size Inlet/Outlet (0.D.)			mm (in.)				:	28					
				WP/WL1	0-100	2	20	WP/WL1	01-200	25	i.8		
	Field pipe size	Inlet/Outlet (I.D.)	mm (in.)	WP/WL201-300		3	10	WP/WL3	01-400	33.3			
				WP/WL40)1-500	36	6.2	WP/WL5	01-525	36	i.8		
	To HBC						To Vertica	Il Main HBC					
	Connection size	Inlet/Outlet (O.D.)	mm (in.)					28					
	Field pipe size	Inlet/Outlet (I.D.)	mm (in.)				As per in	ndoor unit					
	To indoor unit						Horizo	ntal HBC					
	Connection size	Inlet/Outlet (0.D.)	mm (in.)					22	140.50		•		
	Field pipe size	(Min.)	mm (in.)	W/WP/WL10-50		30		W/WP/W	L10-50	2	0		
	To indoor unit	(10111.)		VV/ VV1 / VVL	Vertical HBC						0		
Water piping	Connection size	Inlet/Outlet (O.D.)	mm (in.)	22									
diameter				Total down-	Pipina lenath fr	rom Main-HBC to fart	hest indoor unit	Total down- Piping length from Main-HBC to farthest inder			hest indoor unit		
				stream indoor unit	May 20m	May 40m	Max 60m	stream indoor unit	May 20m	Max 40m	May 60m		
				capacity	10	10		capacity	10	10	10		
				WP/WL10	12	12	12	WP/WL10	12	12	12		
				WP/WLIT-13 WP/WL16_25	15.5	15.5	15.5	WP/WLTE 10 WP/WL16 25	15.5	15.5	10.0		
				WP/WI 26 - 32	15.5	10.0	10.0	WP/WL26 - 32	15.5	10.0	10.0		
	Field nine size	Inlet/Outlet (I.D.)	mm (in)	WP/WL33 - 50	19.9	19.9	19.9	WP/WL33 - 50	19.9	19.9	19.9		
	11010 0120	(Min.)		WP/WL51 - 63	19.9	25.2	25.2	WP/WL51 - 63	19.9	25.2	25.2		
				WP/WI 64 - 80	25.2	25.2	25.2	WP/WI 64 - 80	25.2	25.2	25.2		
				WP/WI 81 - 100	25.2	25.2	32.6	WP/WI 81 - 100	25.2	25.2	32.6		
				WP/WI 101 - 150	32.6	32.6	32.6	WP/WI 101 - 150	32.6	32.6	32.6		
				WP/WI 151 - 250	32.6	32.6	39.6	WP/WI 151 - 250	32.6	32.6	39.6		
				WP/WI 251 - 300	32.6	30.6	50.0	WP/WI 251 - 300	32.6	30.6	50.0		
				WP/WI 301 - 750	50.8	50.8	50.0	WP/WI 301 - 750	50.8	50.8	50.8		
Field drain ni	ield drain nine size mm			WT/WEJ01-730 30.0 30.0 30.0 30.0 30.0 30.0 30.0 3									
Not woight	Field drain pipe size mm (in.)				40 (00) [45 (4	00) with water]	U.D. 3/	2 (1-1/4)	E0 (117) [CO (1	27) with water			
Standard atta	chmont Accesso	- V	và (ine)		40 (09) [40 (1	ooj witii waterj	Drain connection n	ing Washer Tie hand	33 (117) [02 (1	or j with waterj			
Ontional parts	SUILIEILE MUDESSUI	y					prain connection p	ipe, wasiiei, rie ballu					

Notes:

*Works not included: Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items are not specified in this specifications.

*The equipment is for water.

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

*Please install the Sub HBC controller in a place where noise will not be an issue.

*Please attach an expansion vessel (field supply).

*Please use copper or plastic pipes for the water circuit. Do not use steel or stainless steel pipework. Furthermore, when using copper pipework, use a non-oxidative brazing method. Oxidation of the pipework will reduce the pump life.

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

*Please install an air purge valve where air will gather in the water circuit.

*Please refer to the databook or the installation manual for the specified water quality.

*This unit is not designed for outside installations.

*Please always make water circulate or pull out the circulation water completely when not using it. (Please do not use it as a drinking water).

*Please do not use ground water and well water.

*When installing the Sub HBC unit in an environment which may drop below 0 °C, please add antifreeze to the circulating water. (Refer to the data book and the installation manual).

*Main HBC Controller is necessary with sub HBC.

Slim Ceiling Concealed



Model				PEFY-WP10VMS1-E	PEFY-WP15VMS1-E			
Power source				1-phase 220-23	0-240 V 50/60 Hz			
	0	-1) *d	kW	1.2	1.7			
Caslina	Capacity (Nomina	al) ^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 (Noming	N *0	kW	1.4	1.9			
Heating	Capacity (Nomina	11) 3	BTU/h	4,800	6,500			
Treating	Power input *2		kW	0.	03			
	Current input *2		A	0.21	0.33			
External finis	1			Galvanized	steel plate			
Evternal dime	nsion HyWyD		mm	200x7	90x700			
			in.	7-7/8 x 31-1	/8 x 27-9/16			
Net weight			kg (lbs)	19	(42)			
Heat exchang	er	Туре		Cross fin (Aluminium	fin and copper tube)			
	Water volume		L	0.4	0.7			
	Type $ imes$ Quantity			Sirocco	fan x 2			
	External static pressure *4		Pa	<5> - 15 - <	35> - <50>			
	Entornal otatio pri	Joodino 1	mmH ₂ 0	<0.5> - 1.5	<3.6> - <5.1>			
	Motor type			DC Motor				
Fan	Motor output kW		kW	0.096				
	Driving mechanis	m	2	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			
0			cf/m	141 - 159 - 177	177 - 212 - 247			
Sound pressu in anechoic ro	re level (measured oom)*2	(Low Mid High)	dB <a>	20-23-25	22-24-28			
Insulation ma	terial			EPS, Polyethylene f	oam, Urethane foam			
Air filter				PP Honeyo	omb fabric			
Protection de	vice			Fi	se			
Connectable	outdoor unit/HBC C	ontroller		Hybrid City Multi CMB-	VM-AA, CMB-WM-V-BB			
Water nining	diamatar *5 *6	Inlet	mm ID	2	0			
water pipilig	ulallielel J U	Outlet	mm ID	2	0			
Field drain pi	pe size		mm (in.)	0.D.32	(1-1/4)			
Standard atta	chment Accessor	ý –		Insulation pipe for water pipe, Washer, Drain hose, Tie Band				
Optional part	Control Box Repla	ice Kit		PAC-KE	70HS-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 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.

Slim Ceiling Concealed



Model				PEFY-WP20VMS1-E	PEFY-WP25VMS1-E				
Power source				1-phase 220-230-240 V 50/60 Hz					
	Canagity (Naming	N) *1	kW	2.2	2.8				
Cooling	Capacity (Nomina	11) 1	BTU/h	7,500	9,600				
	Power input *2		kW	0.051	0.06				
	Current input*2		A	0.49	0.51				
	Canacity (Nomina	al) *3	kW	2.5	3.2				
Heating	oupdoity (Nonnie	1) 0	BTU/h	8,500	10,900				
riouting	Power input *2		kW	0.031	0.04				
	Current input *2		A	0.38	0.4				
External finish	1			Galvanized	steel plate				
External dime	nsion HxWxD		mm	200x790x700					
			in.	7-7/8 x 31-1,	/8 x 27-9/16				
Net weight		-	kg (lbs)	20 (45)				
Heat exchange	er	lype		Cross fin (Aluminium fin and copper tube)					
	Turne Orientitu	Water Volume	L	0.	9				
	Type × Quantity External static pressure *4		D.	Sirocco	tan x 2				
			Pa	<5> - 15 - <	35> - <50>				
	Motor type		mmH ₂ U	<0.5> - 1.5 - <	(3.6> - <5.1>				
Ean	Motor type		LW	100 MUL					
I dii	Driving mochanic	m	K VV	U.U90 Direct driven by mater					
	DITVING INCOMMINS	111	m ³ /min	55 65 80	5.5 70 0.0				
	Airflow rate	(Low Mid High)	11/9	02 108 133	02 117 150				
	AITTOWTALE	(LOW WIND HIGH)	cf/m	104 - 220 - 282	101 - 217 - 318				
Sound pressu	re level (measured		00/111	134 - 200 - 202	104 - 241 - 510				
in anechoic ro	iom)*2	(Low Mid High)	qR <v></v>	23-25-29	23-26-30				
Insulation mat	terial			EPS, Polyethylene fo	bam, Urethane foam				
Air filter				PP Honeycomb fabric					
Protection device			Fuse						
Connectable outdoor unit/HBC Controller			Hybrid City Multi CMB-V	VM-AA, CMB-WM-V-BB					
Water piping o	tiameter *5 *6	Inlet	mm ID	2	D				
		Outlet	mm ID	2	0				
Field drain pipe size mm (in.)		mm (in.)	0.D.32 (1-1/4)						
Standard attac	chment Accessor	у		Insulation pipe for water pipe, Washer, Drain hose, Tie Band					
Optional part	Control Box Repla	ace Kit		PAC-KE	70HS-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 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 (Off).

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					1-phase 220-230-240 V 50/60 Hz					
	Our stille (New inst	11 *4	kW	3.6	4.5	5.6				
Cooling	Capacity (Nomina	1) ~ 1	BTU/h	12,300	15,400	19,100				
Coolling	Power input *2		kW	0.071	0.09	0.090				
	Current input*2		A	0.61	0.73	0.77				
	Canaaity (Naming	11 *0	kW	4.0	5.0	6.3				
Heating	Capacity (NOTITIA	11) 5	BTU/h	13,600 17,100		21,500				
Treating	Power input *2		kW	0.051	0.07	0				
	Current input *2		A	0.50	0.62	0.66				
External finish					Galvanized steel plate					
Extornal dimo	nsion HvWvD		mm	200x	990x700	200x1,190x700				
			in.	7-7/8 x 3	9 x 27-9/16	7-7/8 x 46-7/8 x 27-9/16				
Net weight			kg (lbs)	25	i (56)	27 (60)				
Heatevchange	ar	Туре		Cross fin (Aluminium fin and copper tube)						
Tical cronalige	Water volume		L		1.7					
Type imes Quantity				Siroco	co fan x 3	Sirocco fan x 4				
	External static nre	A* AINSS	Pa		<5> - 15 - <35> - <50>					
	External static pressure 4		mmH ₂ 0		<0.5> - 1.5 - <3.6> - <5.1>					
	Motor type			DC Motor						
Fan	Motor output		kW		0.096					
	Driving mechanis	m		Direct-driven by motor						
			m ³ /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 pressu in anechoic ro	re level (measured om)*2	(Low Mid High)	dB <a>	28-30-33	30-32-35	30-33-36				
Insulation mat	erial				EPS, Polyethylene foam, Urethane foam					
Air filter					PP Honeycomb fabric					
Protection dev	rice				Fuse					
Connectable o	outdoor unit/HBC C	ontroller			Hybrid City Multi CMB-WM-AA, CMB-WM-V-BB					
Water piping o	liamator *5 *6	Inlet	mm ID		20					
water pipiliy t	Hallielei J U	Outlet	mm ID		20					
Field drain pip	oe size		mm (in.)	0.D.32 (1-1/4)	0.D.32 (1-1/4)	0.D.32 (1-1/4)				
Standard attac	chment Accessory	/		Insulation pipe for water pipe, Washer, Drain hose, Tie Band						
Optional part	Control Box Repla	ice Kit			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 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.



Model				PEFY-WP20VMA-E	PEFY-WP25VMA-E			
Power source				1-phase 220-230)-240 V 50/60 Hz			
	Canaaiku (Marring	.)\ *4	kW	2.2	2.8			
Cooling	Capacity (Norrina	() 1	BTU/h	7,500	9,600			
	Power input *2		kW	0.07	0.09			
	Current input*2		A	0.55	0.64			
Heating	Canaaity (Naming	1) *0	kW	2.5	3.2			
	Capacity (NOTITIA	u) 5	BTU/h	8,500	10,900			
Treating	Power input *2		kW	0.05	0.07			
	Current input *2		A	0.44	0.53			
External finish	1			Galvanized	steel plate			
Evternal dime	nsion HyWyD		mm	250x700x732	250x900x732			
LAIGHIAI UIIIG			in.	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 35-7/16 x 28-7/8			
Net weight			kg (lbs)	21 (47)	26 (58)			
Heat exchange	r	Туре		Cross fin (Aluminium fin and copper tube)				
Heat exchanger		Water volume	L	0.7	1.0			
	Type $ imes$ Quantity			Sirocco	fan x 1			
	External static pressure *4		Pa	<35> - 50 - <70>	- <100> - <150>			
			mmH ₂ 0	<3.6> - 5.1 - <7.1>	- <10.2> - <15.3>			
	Motor type			DC Motor				
Fan	Motor output kW		kW	0.085				
	Driving mechanis	m		Direct-driven by motor				
			m ³ /min	7.5 - 9.0 - 10.5	10.0 - 12.0 - 14.0			
	Airflow rate	(Low Mid High)	L/s	125 - 150 - 175	167 - 200 - 233			
			cf/m	265 - 318 - 371	353 - 242 - 494			
Sound pressu in anechoic ro	re level (measured om)*2	(Low Mid High)	dB <a>	23-26-29	23-27-30			
Insulation ma	erial			EPS, Polyethylene fo	pam, Urethane foam			
Air filter				PP Honeyc	omb fabric			
Protection dev	rice			Fu	se			
Connectable outdoor unit/HBC Controller			Hybrid City Multi CMB-V	VM-AA, CMB-WM-V-BB				
Water piping	liamator *5 *6	Inlet	mm ID	2	0			
water pipilig t	παιπείει η Ο	Outlet	mm ID	2	0			
Field drain pip	oe size		mm (in.)	0.D.32	(1-1/4)			
Standard atta	chment Accessory			Insulation pipe for water pipe,	Washer, Drain hose, Tie Band			
Optional part	Control Box Repla	ice 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 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 (Off).

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 source				1-phase 220-230-240 V 50/60 Hz					
	Canacity (Namin	1) *1	kW	3.6	4.5	5.6			
Cooling	Capacity (Nomina	11) 1	BTU/h	12,300	15,400	19,100			
Cooling	Power input *2		kW	0.11	0.	14			
	Current input*2		A	0.74	1.15				
Heating	Canacity (Noming	7/ ×3	kW	4.0	4.0 5.0				
	Capacity (NOTITIN	1) 5	BTU/h	13,600	17,100	21,500			
Theating	Power input *2		kW	0.09	0.	12			
	Current input *2		A	0.63	1.	D4			
External finish	1				Galvanized steel plate				
External dime	nsion HyWyD		mm	250x900x732	250x1,1	00x732			
	II3I0II IIAWAD		in.	9-7/8 x 35-7/16 x 28-7/8	9-7/8 x 42-5	/16 x 28-7/8			
Net weight			kg (lbs)	26 (58)	31 ((69)			
Heat evchand	or	Туре		Cross fin (Aluminium fin and copper tube)					
Heat exchanger Water Volume		Water Volume	L	1.0	1.	8			
	Type $ imes$ Quantity			Sirocco fan x 1	Sirocco	fan x 2			
	External static pressure *4		Pa		<35> - 50 - <70> - <100> - <150>				
			mmH_2O		<3.6> - 5.1 - <7.1> - <10.2> - <15.3>				
	Motor type				DC Motor				
Fan	Motor output		kW	0.085 0.121					
	Driving mechanis	m		Direct-driven by motor					
			m³/min	12.0 - 14.5 - 17.0	14.5 - 18	.0 - 21.0			
	Airflow rate	(Low Mid High)	L/s	200 - 242 - 283	242 - 30	00 - 350			
			cf/m	424 - 512 - 600	512 - 63	36 - 742			
Sound pressu in anechoic ro	re level (measured oom)*2	(Low Mid High)	dB <a>	25-29-32	26-2	9-34			
Insulation ma	terial				EPS, Polyethylene foam, Urethane foam				
Air filter					PP Honeycomb fabric				
Protection de	vice				Fuse				
Connectable outdoor unit/HBC Controller				Hybrid City Multi CMB-WM-AA, CMB-WM-V-BB					
Water piping (diamatar *5 *6	Inlet	mm ID		20				
water pipilig (liameter 5 0	Outlet	mm ID		20				
Field drain pip	pe size		mm (in.)		0.D.32 (1-1/4)				
Standard atta	chment Accessor	ý		Insulation pipe for water pipe, Washer, Drain hose, Tie Band					
Optional part	Control Box Repla	ice Kit		PAC-KE92TB-E	PAC-KE	93TB-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 (0tt).

Nominal heating conditions – Indoor. 20°CD.8. (68°FD.8.), Outdoor: 7°CD.8./6°FD.8./43°FW.8) 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.
 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.



Model				PEFY-WP63VMA-E	PEFY-WP71VMA-E	PEFY-WP80VMA-E				
Power source				1-phase 220-230-240 V 50/60 Hz						
	Canadily (Namin	.1\ *4	kW	7.1	8.0	9.0				
Cooling	Capacity (Normina	11) 1	BTU/h	24,200	27,300	30,700				
Cooling	Power input *2		kW	0.14	0.24	4				
	Current input*2		A	1.15	1.47					
	Canacity (Noming	1) *2	kW	8.0	8.0 9.0					
Hesting	Capacity (Nomi	1) 5	BTU/h	27,300	30,700	34,100				
Heating	Power input *2		kW	0.12	0.22	2				
	Current input *2		A	1.04	1.36	6				
External finish	1				Galvanized steel plate					
External dime	nsion HxWxD		mm	250x1,100x732	250x1,40	0x732				
External anno			in.	9-7/8 x 43-5/16 x 28-7/8	9-7/8 x 55-1/	8 x 28-7/8				
Net weight			kg (lbs)	31 (69)	40 (8	9)				
Heat exchang	er	Туре		Cross fin (Aluminium fin and copper tube)						
Wat		Water volume	L	2.0	2.0 2.6					
	Type $ imes$ Quantity	ype $ imes$ Quantity			Sirocco fan x 2					
	External static pressure *4		Pa		<35> - 50 - <70> - <100> - <150>					
			mmH ₂ O		<3.6> - 5.1 - <7.1> - <10.2> - <15.3>					
	Motor type			UC Motor						
Fan	Motor output		kW	0.121 0.244						
	Driving mechanis	m	2	Direct-driven by motor						
			m°/min	14.5 - 18.0 - 21.0	23.0 - 28.0	0 - 33.0				
	Airflow rate	(Low Mid High)	L/s	242 - 300 - 350	383 - 467	' - 550				
0			ct/m	512 - 636 - 742	812 - 989	- 1,165				
Sound pressu in anechoic ro	re level (measured iom)*2	(Low Mid High)	dB <a>	26-29-34	28-33	-37				
Insulation ma	terial				EPS, Polyethylene foam, Urethane foam					
Air filter					PP Honeycomb fabric					
Protection dev	/ice				Fuse					
Connectable of	outdoor unit/HBC C	ontroller			Hybrid City Multi CMB-WM-AA, CMB-WM-V-BB					
Water nining (diamatar *5 *6	Inlet	mm ID		30					
Water piping diameter *5 *6 Outlet		Outlet	mm ID		30					
Field drain pip	oe size		mm (in.)		0.D.32 (1-1/4)					
Standard atta	chment Accessor	l)		Insulation pipe for water pipe, Washer, Drain hose, Tie Band						
Optional part	Control Box Repla	ice Kit		PAC-KE93TB-E	PAC-KE9	4TB-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 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 (Off).

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-WP100VMA-E	PEFY-WP125VMA-E				
Power source				1-phase 220-230-240 V 50/60 Hz					
	Canadity (Naming	1) *1	kW	11.2	14.0				
Cooling	Capacity (Nomina	41) 1	BTU/h	38,200	47,800				
	Power input *2		kW	0.24	0.36				
	Current input*2		A	1.47	2.21				
	Canacity (Noming	al) *2	kW	12.5	16.0				
Heating	Capacity (NUTITIN	11) 5	BTU/h	42,700	54,600				
noating	Power input *2		kW	0.22	0.34				
	Current input *2		A	1.36	2.10				
External finish				Galvanized	steel plate				
External dime	nsion HxWxD		mm	250x1,400x732	250x1,600x732				
Entornal anno			in.	9-7/8 x 55-1/8 x 28-7/8	9-7/8 x 63 x 28-7/8				
Net weight			kg (lbs)	40 (89)	42 (93)				
Heat exchance	9r	Туре		Cross fin (Aluminium fin and copper tube)					
		Water volume	L	2.6	3.0				
	Type $ imes$ Quantity			Sirocco	fan x 2				
	External Static Pressure *4		Pa	<35> - 50 - <70>	- <100> - <150>				
	mmF		mmH ₂ 0	<3.6> - 5.1 - <7.1>	- <10.2> - <15.3>				
_	Motor type			DC Motor					
Fan	Motor output kW		kW	0.244					
	Driving mechanis	m	3	Direct-driven by motor					
			m°/min	23.0 - 28.0 - 33.0	29.5 - 35.5 - 42.0				
	Airflow rate	(Low Mid High)	L/s	383 - 467 - 550	492 - 592 - 700				
0			ct/m	812 - 989 - 1,165	1,042 - 1,254 - 1,483				
in anechoic ro	re level (measured om)*2	(Low Mid High)	dB <a>	28-33-37	32-36-40				
Insulation mat	erial			EPS, Polyethylene fo	pam, Urethane foam				
Air filter				PP Honeyc	omb fabric				
Protection dev	vice			Fu	Se				
Connectable of	outdoor unit/HBC C	ontroller		Hybrid City Multi CMB-V	VM-AA, CMB-WM-V-BB				
Water nining (liamotor *5 *6	Inlet	mm ID	3	0				
mator pipiliy t	numotor V V	Outlet	mm ID	3	0				
Field drain pipe size mm (in.)			mm (in.)	0.D.32	(1-1/4)				
Standard attac	chment Accessor	y		Insulation pipe for water pipe,	Washer, Drain hose, Tie Band				
Optional part	Control Box Repla	ace 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 external static pressure.

3. Nominal heating conditions – Indoor: 20°CD.B.(68°FD.B.), Ouldoor: 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-WL40VMHS-A	PEFY-WL50VMHS-A	PEFY-WL63VMHS-A	PEFY-WL71VMHS-A		
Power source				1-ohase 220-230-240 V 50/60 Hz					
	0 11 41	D *4	kW	4.5	5.6	7.1	8.0		
Cooling	Capacity (Nomina	Capacity (Nominal) " I		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		
	Canacity (Noming	al) *0	kW	5.0	6.3	8.0	9.0		
Heating	Capacity (Nomina	ai) o	BTU/h	17,100	21,500	27,300	30,700		
пеашу	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 finish	1				Galvanized	steel plate			
External dime	noion HyWyD		mm		380 x 745 x 900		380 x 1,030 x 900		
External unne	IISIUII HXWXD		in.	15 x 29-3/8 x 35-7/16			15 x 40-9/16 x 35-7/16		
Net weight			kg (lbs)	35	(78)	36 (80)	45 (100)		
Heat exchange	er	Туре			Cross fin (Al and cop	luminium fin per tube)			
		Water volume	L	1.	.4	1	.8		
	Type $ imes$ Quantity				Sirocco fan x 1		Sirocco fan x 2		
	External static pressure *4		Ра		50 - <100> - <	150> - <200>			
			mmH ₂ 0		5.1 - <10.2> - <	15.3> - <20.4>			
	Motor type				DC N	lotor			
Fan	Motor output		kW		0.1	21			
	Driving mechanis	Driving mechanism		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	Airflow rate (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 pressu in anechoic ro	re level (measured oom)*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 mat	terial				Polystyrene foam, Polyethy	ylene foam, Urethane foam			
Air filter				Opt	ion: Synthetic fiber unwoven cloth filter (Ic	ng life filter) and filter box are recommen	ded.		
Protection dev	vice				Fu	se			
Connectable of	outdoor unit/HBC C	ontroller			Hybrid City Multi CMB-V	VM-AA, CMB-WM-V-BB			
Water piping (diamator *5 *6	Inlet	mm ID	2	0	3	0		
water piping t	uldilletei J U	Outlet	mm ID	2	0	3	0		
Field drain pip	Field drain pipe size mm (in.)				0.D.32	(1-1/4)			
Standard attachment Accessory			Washer, Drain	hose, Tie band					
Drain pump kit					PAC-DRP	10DP-E2			
Ontional part	Long life filter				PAC-KE86LAF		PAC-KE88LAF		
optional part	Filter box				PAC-KE63TB-F		PAC-KE99TB-F		
	Valve kit*7			PAC-SK35VK-F					

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.

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 valve kit is 15 meters. The maximum allowable piping length between the indoor unit and the valve kit is 5 meters.



Model				PEFY-WL80VMHS-A	PEFY-WL100VMHS-A	PEFY-WL125VMHS-A			
Power source					1-phase 220-230-240 V 50/60 Hz				
	0	-1) *4	kW	9.0	11.2	14.0			
0	Capacity (Norminal)		BTU/h	30,700	38,200	47,800			
Cooling	Power input *2	Power input *2		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			
	0	-1) *0	kW	10.0	12.5	16.0			
Heating	Capacity (Normin	al) 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 finish					Galvanized steel plate				
Eutornal dima	naion HyWyD		mm	380 x 1,030 x 900	380 x 1,1	95 x 900			
External unne			in.	15 x 40-9/16 x 35-7/16	15 x 47-1/1	6 x 35-7/16			
Net weight			kg (lbs)	45 (100)	51 (113)	53 (117)			
Туре		Туре			Cross fin (Aluminium fin and copper tube)				
i leat excitatiy	51	Water volume	L	1.8	2.3	2.9			
	Type $ imes$ Quantity				Sirocco fan x 2				
	External static pressure *4		Pa		50 - <100> - <150> - <200>				
			mmH_2O		5.1 - <10.2> - <15.3> - <20.4>				
	Motor type				DC Motor				
Fan	Motor output		kW	0.244	0.3	375			
	Driving mechanism				Direct-driven by motor				
			m³/min	18.0 - 21.5 - 25.0 26.5 - 32.0 - 38.0					
	Airflow rate	(Low Mid High)	L/s	300 - 358 - 417	442 - 533 - 633				
			cf/m	636 - 759 - 883	936 - 1,130 - 1,342				
Sound pressu in anechoic ro	re level (measured om)*2	(Low Mid High)	dB <a>	26-29-32	28-3	2-36			
Insulation mat	erial				EPS, Polyethylene foam, Urethane foam				
Air filter				Option:Synthetic 1	fiber unwoven cloth filter (long life filter) and fil-ter box a	are recommended.			
Protection dev	vice				Fuse				
Connectable of	outdoor unit/HBC (Controller			Hybrid City Multi CMB-WM-AA, CMB-WM-V-BB				
Water piping (liamator *5 *6	Inlet	mm ID		30				
water piping t	nanneter 2 o	Outlet	mm ID		30				
Field drain pip	oe size		mm (in.)		0.D.32 (1-1/4)				
Standard attachment Accessory					Washer, Drain hose, Tie band				
	Drain pump kit				PAC-DRP10DP-E2				
Ontional part	Long life filter			PAC-KE88LAF	PAC-KE	E89LAF			
optional part	Filter box			PAC-KE99TB-F	PAC-KE99TB-F PAC-KE140TB-F				
	Valve kit*7				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: Om (Oft).

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.

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					1-phase 220-240 V 50Hz			
	Our state (Namina	1) *4	kW	2.2	2.8	3.6		
0	Capacity (Nomina	1) ~ 1	BTU/h	7,500	9.600	12,300		
Cooling	Power input	Power input		0.03				
	Current input		A	0.26	0.29	0.33		
	0 11 (11 1		kW	2.5	3.2	4.0		
	Capacity (Nomina	1) *2	BTU/h	8.500	10.900	13.600		
Heating	Power input		kW		0.03			
	Current input		Α	0.20	0.23	0.27		
External finis	1				Galvanized steel sheet			
			mm		258 x 840 x 840			
External dime	nsion HxWxD		in.		10-3/16 x 33-1/16 x 33-1/16			
Net weight			kg (lbs)	18	(40)	20 (44)		
		Model			PLP-6EA			
		External finish		MUNSELL (1.0Y 9.2/0.2)				
Decoration pa	inel	Dimensione	mm	40 x 950 x 950				
		Dimensions	in.		1-9/16 x 37-13/32 x 37-13/32			
		Net weight	kg (lbs)		5 (11)			
Hastaushana		Туре			Cross fin (Aluminium fin and copper tube)			
Heat excitaing	er	Water volume	L	1	.0	1.8		
	Type imes Quantity				Turbo Fan x 1			
	External static pre	External static pressure Pa		0				
	Motor type			DC Motor				
Ean	Motor output		kW	0.05				
I dII	Driving mechanis	n			Direct-driven by motor			
	Al-Revente (Leve	MER MER LESIN	m³/min	12 - 13 - 14 - 15	12 - 13 - 15 - 17	14 - 15 - 16 - 17		
	AITTIOW FATE (LOW-	IVIIa I–IVIIa2–Hign)	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 pressu	re level (Low-Mid1-	Mid2-High)	dB <a>	24 - 26 - 27 - 28	24 - 26 - 28 - 30	26 - 27 - 29 - 30		
Insulation ma	terial				PS			
Air filter					PP Honeycomb			
Protection de	vice				Fuse			
Refrigerant co	ontrol device				-			
Connectable	outdoor unit/HBC Co	ontroller			Hybrid City Multi CMB-WM-AA, CMB-WM-V-BB			
Water piping	diamator *2 *4	Inlet	mm ID		20			
water pipilig	ulailletei 5 4	Outlet	mm ID		20			
Field drain pi	pe size		mm (in.)		0.D.32 (1-1/4)			
	Decoration panel	*5			PLP-6EA/PLP-6EAE/PLP-6EAL/PLP-6EALE			
Optional	i-See Sensor cont	rol panel			PAC-SE1ME-E			
parts	Wirelss signal rec	eiver			PAR-SE9FA-E			
	Valve kit *6				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.)
 Bo ever the includ evel on a the webe evel at the evel of the set of
- 3. Be sure to install a valve on the water outlet.

- 6. Use of the matter version is not active to the pipe next to the value 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 value kit on all WL-type indoor units. When the value kit is installed farther away from the HBC than the distance between the HBC and the WL-model indoor unit, the maximum allowable piping length between the indoor unit and the value kit is 5 meters.
 7. Determine with the distance between the value 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					1-phase 220-240 V 50Hz				
	Conseiler (Mersin		kW	4.5	5.6	7.1			
Cooling	Capacity (Noniniar)		BTU/h	15,400	19,100	24,200			
Coolling	Power input		kW	0.03	0.03				
	Current input		A	0.35	0.4	0			
	Conscibut/Marsin		kW	5.0	6.3	8.0			
Heating	Capacity (Nomina	al) Z	BTU/h	17,100	21,500	27,300			
пеациу	Power input		kW	0.03	0.03				
	Current input		A	0.29	0.3	4			
External finish	1				Galvanized steel sheet				
External dime	noion HyWyD		mm	258 x 8	40 x 840	298 x 840 x 840			
External unne			in.	10-3/16 x 33-	11-3/4 x 33-1/16 x 33-1/16				
Net weight			kg (lbs)	20	(44)	23 (51)			
		Model			PLP-6EA				
		External finish							
Decoration panel		Dimonsions	mm		40 x 950 x 950				
	Dimensions	DIIIIGIISIOIIS	in.		1-9/16 x 37-13/32 x 37-13/32				
		Net weight	kg (lbs)		5 (11)				
Heat exchange	or	Туре			Cross fin (Aluminium fin and copper tube)				
	51	Water volume	L	1	8	2.1			
	$Type \times Quantity$				Turbo Fan x 1				
	External static pressure Pa		Ра		0				
	Motor type	Motor type			DC Motor				
Fan	Motor output		kW	0.	0.12				
i uli	Driving mechanis	m			Direct-driven by motor				
	Airflow rate (Low	Mid1 Mid2 High)	m³/min	14 - 15 - 16 - 17	14 - 16 - 18 - 20	15 - 17 - 19 - 21			
	AITTOW Tale (LOW	-ivitu t-ivituz-titigit)	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 pressu	re level (Low-Mid1	-Mid2-High)	dB <a>	26 - 28 - 29 - 31	27 - 29 -	31 - 33			
Insulation mat	terial				PS				
Air filter					PP Honeycomb				
Protection dev	/ice				Fuse				
Refrigerant co	ntrol device				-				
Connectable of	outdoor unit/HBC C	ontroller			Hybrid City Multi CMB-WM-AA, CMB-WM-V-BB				
Water nining (tiameter *3 *4	Inlet	mm ID	2	0	30			
water piping t		Outlet	mm ID	2	0	30			
Field drain pip	oe size		mm (in.)		0.D.32 (1-1/4)				
	Decoration panel	*5			PLP-6EA/PLP-6EAE/PLP-6EAL/PLP-6EALE				
Optional	i-See Sensor con	trol panel			PAC-SE1ME-E				
parts	Wirelss signal re	ceiver			PAR-SE9FA-E				
	Valve kit *6				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.)
 Page user include user to explore outled.
- 3. Be sure to install a valve on the water outlet.

- 6. Botal is divide a function in a function in the pipe next to the valve to remove the foreign matters.
 5. PLFY-WL-YEM-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 piping length between the indoor unit and the valve kit is 5 meters.
 7. Pleter wave with the there was 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-WL80VEM-E	PLFY-WL100VEM-E	PLFY-WL125VEM-E		
Power source					1-phase 220-240 V 50Hz			
	Canacily (Marris	1) *1	kW	9.0	11.2	14.0		
0.1	Gapacity (Noniniai)		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	.). *0	kW	10.0	12.5	16.0		
Heatheas	Capacity (Nomina	al) "2	BTU/h	34,100	42,700	54,600		
Heating	Power input		kW	0.05	0.08	0.11		
	Current input		A	0.40	0.60	0.99		
External finish	1				Galvanized steel sheet			
External dime	noion HyWyD		mm		298 x 840 x 840			
External dime	IISIOII HXWXD		in.		11-3/4 x 33-1/16 x 33-1/16			
Net weight			kg (lbs)	23	(51)	25 (55)		
		Model			PLP-6EA			
		External finish		MUNSELL (1.0Y 9.2/0.2)				
Decoration pa	nel	Dimonsions	mm	40 x 950 x 950				
		DIIIIelisiolis	in.		1-9/16 x 37-13/32 x 37-13/32			
		Net weight	kg (lbs)		5 (11)			
Heat avalance	or	Туре			Cross fin (Aluminium fin and copper tube)			
rieal excitality	51	Water volume	L	2.1	2.2	3.1		
	$Type \times Quantity$				Turbo Fan x 1			
	External static pressure Pa		Pa	0				
	Motor type	Motor type		DC Motor				
Fan	Motor output		kW	0.12				
I all	Driving mechanis	m			Direct-driven by motor			
	Airflaurrata (Laur	MEH MERO TEAN)	m³/min	15 - 18 - 21 - 23	19 - 23 - 26 - 30	20 - 25 - 30 - 35		
	AITTOW Tate (LOW-	-widi-widz-Higii)	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 pressu	re level (Low-Mid1	-Mid2-High)	$dB{<}A{>}$	27 - 30 - 33 - 35	31 - 35 - 37 - 40	33 - 37 - 40 - 46		
Insulation ma	terial				PS			
Air filter					PP Honeycomb			
Protection dev	/ice				Fuse			
Refrigerant co	introl device				-			
Connectable of	outdoor unit/HBC C	ontroller			Hybrid City Multi CMB-WM-AA, CMB-WM-V-BB			
Water nining (liamotor *3 */	Inlet	mm ID		30			
water pipiliy i		Outlet	mm ID		30			
Field drain pip	be size		mm (in.)	0.D.32 (1-1/4)				
	Decoration panel	*5			PLP-6EA/PLP-6EAE/PLP-6EAL/PLP-6EALE			
Optional	i-See Sensor con	trol panel			PAC-SE1ME-E			
parts	Wirelss signal rec	ceiver			PAR-SE9FA-E			
	Valve kit *6				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.)
 Bo ever the includ avelous on the web evel difference: 0 m (0 ft.)
- 3. Be sure to install a valve on the water outlet.

- 6. Bostion to make a value of the pipe next to the value 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 value kit on all WL-type indoor units. When the value kit is installed farther away from the HBC than the distance between the HBC and the WL-model indoor unit, the maximum allowable piping length between the indoor unit and the value kit is 5 meters.
 7. Diverse units the same system in the value kit is 5 meters.

- * 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 source				1-phase 220-240 V 50Hz			
	0 11 (11 1	1. **	kW	1.2	1.7		
	Capacity (Nomin	al) ^1	BTU/h	4.100	5.800		
Cooling	Power input		kW	0.02			
	Current input		A	0.23	0.24		
	0 11 01 1	0.*0	kW	1.4	1.9		
Uniter	Capacity (Nomin	al) ^2	BTU/h	4,800	6,500		
Heating	Power input		kW	0.0	2		
	Current input		A	0.17	0.18		
External finis	h			Galvanized	steel sheet		
Extornal dime	uncion HyWyD		mm	208 x 57	0 x 570		
	1121011 11X W X D		in.	8-1/4x22-1	/2x22-1/2		
Net weight			kg (lbs)	13 (/	29)		
		Model		SLP-2F/	A(L)(E)		
		External finish		MUNSELL (1.0Y 9.2/0.2)			
Decoration panel		Dimensions	mm	10 x 625 x 625			
		Difficitatoria	in.	3/8 x 24-5/	8 x 24-5/8		
		Net weight	kg (lbs)	3 (7)		
Heat exchang	er	Туре		Cross fin (Aluminium	fin and copper tube)		
	01	Water volume	L	0.1	5		
	Type $ imes$ Quantity			Turbo F	an x 1		
	External static pr	essure	Pa	0			
	Motor type			DC Motor			
Fan	Motor output		kW	0.05			
	Driving mechanis	sm	2	Direct-drive	n by motor		
	Airflow rate (Low	-Mid-High)	m°/min	6.0 - 6.5 - 7.0	6.0 - 7.0 - 8.0		
	///////////////////////////////////////	iniu riigii)	L/s	100 - 108 - 117	100 - 117 - 133		
			cf/m	212 - 230 - 247	212 - 247 - 282		
Sound pressu	ire level (Low-Mid-	High)	qR <v></v>	25 - 26 - 27	25 - 26 - 29		
Insulation ma	terial			PC			
Air filter				PP Hone	ycomb		
Protection de	VICE	te a te a II e a		Fus			
Connectable	ontdool nuit/HRC (ontroller		Hybrid City Multi CMB-W	IM-AA, UMB-WM-V-BB		
Water piping	diameter *3 *4	Inlet	mm ID	21			
Et la desta est		Outlet	mm ID	20			
Field drain pi	pe size	* Г	mm (in.)	0.0.051	0.D.32 (1-1/4)		
Orthead	Lecoration panel	D Dor popul		SLP-2FA/SLP-2FAE/S			
uptional	Viralass signal r	nen hallet					
μαιιο	Value kit *6	6061861		РАК-Эг			
	Valve kit "b			PAC-SK	30VN-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.)
 Re ourse instella use on the wate outlet

3. 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.
 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 source				1-phase 220-240 V 50Hz		
	0	N #4	kW	2.2	2.8	
0	Gapacity (Norminal)		BTU/h	7,500	9,600	
Cooling	Power input		kW	0.02	0.03	
	Current input		A	0.26	0.29	
			kW	2.5	3.2	
	Capacity (Nominal) *2		BTU/h	8,500	10,900	
Heating	Power input		kW	0.02	0.03	
	Current input		A	0.20	0.23	
External finish	1			Galvanized s	teel sheet	
Estand Rea			mm	208 x 570	0 x 570	
External dime	NSION HXWXD		in.	8-1/4x22-1/2		
Net weight			kg (lbs)	14 (3	1)	
		Model		SLP-2FA	(L)(E)	
Decoration panel		External finish		MUNSELL (1.0Y 9.2/0.2)		
		Dimonoiono	mm	10 x 625 x 625		
		DIMENSIONS	in.	3/8 x 24-5/8	x 24-5/8	
		Net weight	kg (lbs)	3 (7)	
Hoat ovebang	or	Туре		Cross fin (Aluminium f	in and copper tube)	
rieal excitally	51	Water volume	L	0.9		
	$Type \times Quantity$			Turbo Fa	in x 1	
	External static pressure Pa		Ра	0		
	Motor type			DC Motor		
Fan	Motor output		kW	0.05		
1 un	Driving mechanis	m		Direct-driver	i by motor	
	Airflow rate (Low	Mid High)	m³/min	6.5 - 7.0 - 8.0	6.5 - 7.5 - 9.0	
	AITTOW Tate (LOW	-iviiu-migii)	L/s	108 - 117 - 133	108 - 125 - 150	
			cf/m	230 - 247 - 282	230 - 265 - 318	
Sound pressu	re level (Low-Mid-	High)	dB <a>	27 - 29 - 31	27 - 30 - 34	
Insulation mat	terial			PS		
Air filter				PP Honey	/comb	
Protection dev	/ice			Fus	e	
Connectable of	outdoor unit/HBC C	ontroller		Hybrid City Multi CMB-W	M-AA, CMB-WM-V-BB	
Water nining (tiameter *3 *4	Inlet	mm ID	20		
mator piping (Outlet	mm ID	20		
Field drain pip	pe size		mm (in.)	0.D.32 (1-1/4)	
Ontional	Decoration Panel	*5		SLP-2FA/SLP-2FAE/SL	.P-2FAL/SLP-2FALE	
parts	i-See Sensor cor	ner panel		PAC-SF1	ME-E	
·	Wireless Signal Receiver			PAR-SFS	JFA-E	
Valve kit *6			PAC-SK3	5VK-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°ED.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-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.
 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



Perenspace Index Index Index Concing Prover input IN NO 3.6 4.5 Prover input NO 004 005 Prover input NO 0.04 005 Prover input NO 0.04 0.05 Prover input NO 0.04 0.05 Prover input NO 0.04 0.05 Prover input NV 0.04 0.05 Decreating NV NV 0.04 NV NV 0.04 0.05 Decreating NV NV 0.04 NV NV 0.04 0.05 Decreating NV NV 0.04 NV NV NV 0.04 NV NV NV 0.04 NV NV NV 0.04 NV NV NV	Model				PLFY-WL32VFM-E PLFY-WL40VFM-E			
Cooling Cooling W 3.6 4.5 Power input KW 0.2000 15.400 0.05 Corrent input KW 0.04 0.05 Corrent input KW 0.04 0.05 Corrent input KW 0.04 0.05 Power input KW 0.04 0.05 Power input A 0.2000 0.05 Power input A 0.22 0.40 Power input A 0.22 0.40 Power input A 0.22 0.40 External diminester HW/ND Im 0.22X/2X/2X/2X/2X/2X/2X/2X/2X/2X/2X/2X/2X/	Power source	}			1-phase 220-240 V 50Hz			
Control Control Figure With Procession Procession Procession Procession With 0.04 0.05 Procession Structure With 0.04 0.05 Procession Structure Structure 0.04 0.05 Procession Structure Structure 0.01 0.05 Procession Structure 0.02 0.00 0.05 Concression Structure 0.02 0.00 0.05 External times Mith Mith 0.02 0.00 0.05 External times Mith Mith 0.02 0.01 0.05 External times Mith Mith Mith 0.02 0.01 0.01 New sight Mith Mith Mith Mith 0.01 0.01 0.01 New sight Mith Mith Mith 0.01 0.01 0.01 0.01 0.01 Mith Mith Mith Mith </td <td></td> <td>Canacity (Marris</td> <td>vol\ *1</td> <td>kW</td> <td>3.6</td> <td>4.5</td>		Canacity (Marris	vol\ *1	kW	3.6	4.5		
Constrained Carrent inputWM0.040.05Carrent inputNM0.380.46Carrent inputNM13.60017.100PartinStub13.60017.100Carrent inputN0.320.40Carrent inputN0.320.40Extend informationN14.000.40Extend informationN14.000.40Extend informationN14.000.40Extend informationN14.000.40Extend informationN14.000.40Extend informationN14.000.40Extend informationN14.000.40Extend informationN14.000.40Net weightN14.0014.00Extend informationN14.0014.00Net weightN10.0010.425Net weightN10.0010.425Net weightN10.0010.00Net weightN10.0010.00Net weightN10.000.00Net weightN10.0010.00Net weightN10.0010.00Net weightN10.0010.00Net weightN10.0010.00Net weightN10.0010.00Net weightN10.0010.00Net weightN10.0010.00Net weightN10.0010.00Net weightN </td <td>Cooling</td> <td colspan="2">Capacity (Nonnia)</td> <td>BTU/h</td> <td>12,300</td> <td>15,400</td>	Cooling	Capacity (Nonnia)		BTU/h	12,300	15,400		
Image: Product of the state of th	Cooling	Power input		kW	0.04	0.05		
$ \begin{array}{ $		Current input		A	0.38	0.46		
$ \begin{aligned} \begin{tabular}{ c $		Consoity (Nomir	vol) *0	kW	4.0	5.0		
Index Power input WW 0.04 0.05 Current input W 0.32 0.40 External finit	Heating	Capacity (NOTIT	idi) Z	BTU/h	13,600	17,100		
Image: Current input:A0.020.40External dimension HWUDImage: Construction of the state	nealing	Power input		kW	0.04	0.05		
Extend line: Item H:We wightmmGalvanized steel steel H:Galvanized steel Ste		Current input		Α	0.32	0.40		
External dimension HxWxD mm cdd A 570 x 570	External finis	h			Galvanized	steel sheet		
$ \begin{array}{c c c c c c c } \label{eq:constrained} \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	External dime	ansion HyWyD		mm	208 x 5	70 x 570		
Net weight kg (bs) flit (1) Pecoration panel Model SLP-2FA(L)(E) Pecoration panel mm SLP-2FA(L)(E) Pecoration panel mm mm mm Pecoration panel mm mm mm Pecoration panel mm mm mm Perev mm mm mm Perev Type Coss fm Aluminum fm and copper tube) Perev Type Decoration Decoration Motr vigue Type Decoration Difeed-driver Fan Type m/m Difeed-driver				in.	8-1/4x22-1	1/2x22-1/2		
Model SLP-2FA(J)(E) Decoration panel $\frac{Mndel}{1000000000000000000000000000000000000$	Net weight			kg (lbs)	14	(31)		
Let read finish mm MMUSELL (10° 2/0.2) Decoration part let read finish mm 10 x 625 x 625 Dimensions mm 10 x 625 x 625 Net weight kg (lb) 3(7) Heat excharger Type Cross fin (Aluminium fin and copper tube) Heat excharger Type V Cross fin (Aluminium fin and copper tube) Heat excharger Yater volume 0 Motor volum V 0.05 Motor output W 0.05 Motor output W 0.05 Motor volum V 0.06 Motor volum V 0.05 Motor volum V 0.05 Motor volum V 0.05 Motor volum V 0.05 Motor volum V/S 108-150 - 200 108 - 192 - 217 Variation material V/S 108-150 - 200 108 - 192 - 217 Sound pressure level (Low-Mid-High) 65 <-1.15 - 13.0			Model		SLP-2F	A(L)(E)		
$ \begin{array}{c c c c c c } \hline \begin{tabular}{ c c c c } \hline \begin{tabular}{ c c c c c } \hline \begin{tabular}{ c c c c c } \hline \begin{tabular}{ c c c c c c } \hline \begin{tabular}{ c c c c c c } \hline \begin{tabular}{ c c c c c c } \hline \begin{tabular}{ c c c c c c } \hline \begin{tabular}{ c c c c c c c } \hline \begin{tabular}{ c c c c c c c } \hline \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		External finish			MUNSELL (1	.0Y 9.2/0.2)		
Indexin. $3/8 \times 24 - 5/8 \times 24 - $	Decoration p	anel	Dimensions	mm	10 x 62	5 x 625		
Heat exchangerMet weightkg (bs)Gross fin (Aluminum fin and copper tube)Heat exchangerType Cross fin (Aluminum fin and copper tube)Water volumeLOMotor typeExternal static pressurePaOMotor typeMotor uputkWOLMotor uputkWOLDriving mechanismAirliow rate (Low-Mid-High)d m ² /min6.5 - 9.0 - 12.0Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"Nide colspan="2">SSound pressure level (Low-Mid-High)dB <a>Colspan="2">Colspan="2"Protection deviceConnectable colspan="2"Connectable colspan="2"Protection deviceConnectable colspan="2"Connectable colspan="2"Protection deviceConnectable colspan="2"Protection deviceConnectable colspan="2"Protection deviceConnectable colspan="2"Protection deviceConnectable colspan="2"Protection deviceConnectable colspan="2"Protect				in.	3/8 x 24-5,	/8 x 24-5/8		
Type Cross fin (Aluminium finand copper tube) Water volume L Type × Quantity Turbo Fan x 1 External static pressure Pa O Motor output KW DC Motor Outring mechanism min 6.5 - 9.0 - 12.0 6.5 - 11.5 - 13.0 Airflow rate (Low-Mid-High) dB A> 27.4 - 33.41 23.0 - 406 - 45.9 Sound pressure level (Low-Mid-High) dB <a> 27.4 - 33.41 27.4 - 43 Insulation material Fise PP Honeycomb Fuse Protection device Infl min D 20.0 Field drain pipe size Infl min (h) O.0.3 (L-1/4) Optional parts Decoration Panel min (h) SLP-2FA/S			Net weight	kg (lbs)	31	(7)		
Instruction Water volume L 0 Implementation Type \times Quantity Turbo Fan x 1 External static pressure Pa 0 Motor type DC Motor Motor output KW 0.05 Driving mechanism m ² /min 6.5 - 9.0 - 12.0 6.5 - 11.5 - 13.0 Airflow rate (Low-Mid-High) M^2 108 - 150 - 200 108 - 192 - 217 dir M^2 230 - 318 - 424 230 - 406 - 459 Sound pressure level (Low-Mid-High) dB <a> 27 - 33 - 41 27 - 40 - 43 Insulation material Fuse Fuse Fuse Protection device Inlet mm ID 20 Water piping diameter *3 *4 Inlet m ID 20 Field drain pipe size mm (m) 0.0.32 (1-1/4) 20 Protection Panel *5 Score panel Score panel Score panel Protectes Signal Receiver PAC SFIME-E PAC SFIME-E	Heat exchance	ier	Туре		Cross fin (Aluminium	fin and copper tube)		
$ \begin{array}{ c & c & c & c & c & c & c & c & c & c & c & c & c & c & $		-	Water volume	L	0	9		
External static pressurePa0Motor typeDC MotorMotor outputkW0.05Driving mechanismDirect-driven by motorAirflow rate (Low-Mid-High) $\frac{m^2/min}{L/s}$ $6.5 - 9.0 - 12.0$ $6.5 - 11.5 - 13.0$ $Airflow rate (Low-Mid-High)$ $\frac{m^2/min}{L/s}$ $108 - 150 - 200$ $108 - 192 - 217$ C/m 230 - 318 - 424230 - 406 - 459Sound pressure level (Low-Mid-High) $dB < A>$ $27 - 33 - 41$ Insulation material $Z7 - 40 - 43$ $Z7 - 40 - 43$ Insulation materialFusePP HoneycombProtection deviceFuseFuseConnectable outdor unit/HBC ControllerInlefmm IDWater piping diameter * 3 *4Inlefmm IDPictoration Panel *5mm (n) $0.0.32$ (1-1/4)Optional partsDecoration Panel *5SUP-2FA/SLP-2FAL/SL		Type × Quantity			Turbo	Fan x 1		
Both Motor typeDC MotorMotor outputkWMotor outputkW0.05Direct-driven by motorDirect-driven by motorDirect-driven by motorAirflow rate (Low-Mid-High) $6.5 - 9.0 - 12.0$ $6.5 - 11.5 - 13.0$ Airflow rate (Low-Mid-High) m^3/min $6.5 - 9.0 - 12.0$ $6.5 - 11.5 - 13.0$ Sound pressure level (Low-Mid-High) $dB < A>$ $27 - 30 - 424$ $230 - 406 - 459$ Sound pressure level (Low-Mid-High) $dB < A>$ $27 - 33 - 41$ $27 - 40 - 43$ Insulation materialFisher water is a state of the		External static pressure		Pa	()		
FanMotor outputkw0.05Direct-driven by motorDirect-driven by motorDirect-driven by motorAirflow rate (Low-Mid-High) $6.5 - 9.0 - 12.0$ $6.5 - 11.5 - 13.0$ Airflow rate (Low-Mid-High) $108 - 192 - 217$ other state in the state in		Motor type		111/	DC Motor			
$\begin{tabular}{ c c c c c } \hline Uriving mechanism & I & I & I & I & I & I & I & I & I & $	Fan	Motor output		KW	0.	U5		
$\begin{tabular}{ c c c c c c } \hline \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		Driving mechani	sm		Direct-drive	en by motor		
$\begin{tabular}{ c c c c c } \hline US & 10S & 10S & 200 & 10S & 192 & 217 \\ \hline t/m & 230 & 318 & 424 & 230 & 406 & 459 \\ \hline sound pressure level (Low-Mid-High) & dB < A> & 27 & 33 & 41 & 27 & 40 & 43 \\ \hline Insulation material & V & B & PP Honeycomb \\ \hline rotection device & V & PP Honeycomb \\ \hline Protection device & V & PP Honeycomb \\ \hline Connectable outdoor unit/HBC Controller & Phoneycomb \\ \hline Water piping diameter *3 *4 & 10t & mm ID & 20 \\ \hline Hult & mm ID & 20 \\ \hline Field drain pipe size & mm (in.) & 0.0.32 (1-1/4) \\ \hline Optional parts & 0 & SLP-2FA/SLP-2FAL/SLP-2FAL/SLP-2FALE \\ \hline Water signal Receiver & PAR-SF9FA-E \\ \hline Water signal Receiver & PAR-SF9FA-E \\ \hline \ Variable Standard Stand$		Airflow rate (Lov	v-Mid-High)	m ⁻ /min	6.5 - 9.0 - 12.0	b.5 - 11.5 - 13.U		
$ \begin{array}{ c c c c c } \hline c \ c \ c \ c \ c \ c \ c \ c \ c \ c$,	0,	L/S	108 - 150 - 200	108 - 192 - 217		
Source rever 27 - 40 - 43 Insulation material PS Air filter PP Honeycomb Protection device Fuse Connectable outdoor unit/HBC Controller Hybrid City Multi CMB-WM-AA, CMB-WM-V-BB Water piping diameter *3 *4 Inlet mm ID Quitet mm ID 20 Field drain pipe size mm (in.) 0.0.32 (1-1/4) Optional parts Decoration Panel *5 SLP-2FA/SLP-2FAL/SLP-2FAL/SLP-2FALE Vireless Signal Receiver PAR-SFIPA-E Varies Signal Receiver PAR-SFIPA-E	Cound propo	re level (Low Mid	Lliab)	CI/III dD cAs	230 - 318 - 424	230 - 406 - 459		
Instalation material PS Air filter PP Honeycomb Protection device Fuse Connectable outdoor unit/HBC Controller Hybrid City Multi CMB-WM-AA, CMB-WM-V-BB Water piping diameter *3 *4 Inlet mm ID Quitet mm ID 20 Field drain pipe size mm (in.) 0.0.32 (1-1/4) Optional parts Decoration Panel *5 SLP-2FA/SLP-2FAL/SLP-2FAL/SLP-2FAL Vireless Signal Receiver PAR-SFI9FA-E Variant Signal Receiver PAC-SK13MV-F	Sound pressi	ite level (Low-Ivilu-	-niyii)	UD <a>	27 - 33 - 41	27 - 40 - 43		
Initial Initial Initial Protection device Fuse Connectable outdoor unit/HBC Controller Hybrid City Multi CMB-WM-AA, CMB-WM-V-BB Water piping diameter *3 *4 Inlet mm ID Quitet mm ID 20 Field drain pipe size mm (in.) 0.0.32 (1-1/4) Optional parts Decoration Panel *5 SLP-2FA/SLP-2FAL/SLP-2FAL/SLP-2FALE Vireless Signal Receiver PAR-SFIPA-E PAR-SFIPA-E PAR-SFIPA-E	Air filtor	llellal			۲ DD Hap	J avecamb		
Index Index Index Index Water piping diameter *3 *4 Indet mm ID 20 Field drain pipe size mm (in.) 0.0.32 (1-1/4) Optional parts Decoration Panel *5 SLP-2FA/SLP-2FAL/SLP-2FAL/SLP-2FAL Wireless Signal Receiver PAR-SFIPA-E PAR-SFIPA-E	Protoction do	wioo						
Connectable dottod nin/ noc controller mm ID 20 Water piping diameter *3 *4 Inlet mm ID 20 Field drain pipe size mm (in.) 0.0.32 (1-1/4) Optional parts Decoration Panel *5 SLP-2FA/SLP-2FAL/SLP-2FAL/SLP-2FAL/SLP-2FAL Wrieless Signal Receiver PAR-SF9FA-E PAC-SF1ME-E PAC-SF345W-F	Connectable	outdoor unit/HBC I	Controllor		FU Lubrid City Multi CMD 1			
Water piping diameter *3 *4 Innet Inne Innet Innet I	CONNECTANCE			mm ID				
Field drain pipe size mm (in.) 0.0.32 (1-1/4) Optional parts Decoration Panel *5 SLP-2FA/SLP-2FAL/SLP-2FAL/SLP-2FAL/SLP-2FAL Wireless Signal Receiver PAC-SF1ME-E PAR-SF9FA-E PAC-SK35WL-F	Water piping	diameter *3 *4	Outlot	mm ID	2	0		
Optional parts Decoration Panel *5 SLP-2FA/SLP-2FAL/SLP-2FAL/SLP-2FAL Optional parts Decoration Panel *5 PAC-SF1ME-E Wireless Signal Receiver PAR-SF9FA-E Optional parts PAC-SF1ME-E	Field drain ni	no sizo	Uuliel	mm (in)	2	(1 1/4)		
Optional parts Descriptional factor of the panel Descriptional factor of the panel Vireless Signal Receiver PAR-SF9FA-E PAC-SF1WE-E PAC-SF1WE-E		Decoration Pane	*5	(iii.)	U.U.32 SID 264/SID 2645/S	(1-1/4) SLP_2EAL/SLP_2EALE		
Parts Vireless Signal Receiver PAR-SF9FA-E PAC-SK35VK-F	Optional	i-See Sensor co	rner nanel		SLF-21A/SLF-2FAE/S			
PACSK35VKF	parts	Wireless Signal	Receiver		PAR-SI	F9FA-F		
					PACSK	35VK-F		

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°ED.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-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.
 6. When using 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.
 7. 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-WL10VLM-E	PKFY-WL15VLM-E	PKFY-WL20VLM-E			
Power source					1-phase 220-240 V 50Hz				
	Canacity (Nomin	(a) *1	kW	1.2	1.7	2.2			
Cooling	Capacity (Notifital)		BTU/h	4,100	5,800	7,500			
Cooling	Power input		kW	0.	02	0.03			
	Current input		A	0.	20	0.25			
	Consoity (Nomin	ual) *0	kW	1.4	1.9	2.5			
Heating	Capacity (NOTITI	idi) Z	BTU/h	4,800	6,500	8,500			
пеашу	Power input		kW	0.	01	0.02			
	Current input		A	0.	15	0.20			
External finish					Plastic (0.7PB 9.2/0.4)				
External dime			mm		299 x 773 x 237				
External unne	IISIUII FIXWXD		in.		11-25/32 x 30-7/16 x 9-11/32				
Net weight			kg (lbs)		11 (25)				
Heat exchanger				Cross fin (Aluminium fin and copper tube)					
		Water volume	L	0	0.6				
	Type $ imes$ Quantity				Line Flow Fan x 1				
	External static pressure		Pa		0				
	Motor type				DC Motor				
Fan	Motor output		kW		0.03				
1 ull	Driving mechani	sm		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 (Low	/-Mid2-Mid1-High)	L/s	55 - 63 - 68 - 75	55 - 63 - 72 - 82	67 - 83 - 100 - 117			
			cf/m	117 - 134 - 145 - 159	117 - 134 - 152 - 173	141 - 177 - 212 - 247			
Sound pressu	re level (Low-Mid2	2-Mid1-High)	dB <a>	22 - 26 - 28 - 30	22 - 26 - 29 - 32	22 - 28 - 33 - 36			
Insulation mat	erial				Polyethylene Sheet				
Air filter					PP Honeycomb				
Protection dev	/ice				Fuse				
Connectable of	outdoor unit/HBC (Controller			Hybrid City Multi CMB-WM-AA, CMB-WM-V-BB				
Water piping (liamatar *2 */	Inlet	mm ID		20				
water pipiliy t		Outlet	mm ID		20				
Field drain pip	oe size		mm (in.)		I.D.16 (5/8)				
Optional	Drain Pump Kit				PAC-SK01DM-E				
Parts	Valve Kit *5				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-WL25VLM-E	PKFY-WL32VLM-E	PKFY-WL40VLM-E	
Power source				1-phase 220-240 V 50Hz			
	Canacity (Nomin	al) *1	kW	2.8	3.6	4.5	
Cooling	σαμασιτή (ποιτιπ	iai) i	BTU/h	9,600	12,300	15,400	
Cooling	Power input		kW	0.	04	0.05	
	Current input		Α	0.	35	0.45	
	Canacity (Nomin	al) *0	kW	3.2	4.0	5.0	
Hesting	σαμασιτή (ποιπιπ	ai) 2	BTU/h	10,900	13,600	17,100	
Tieatilly	Power input		kW	0.	03	0.04	
	Current input		A	0.	30	0.40	
External finish	1				Plastic (0.7PB 9.2/0.4)		
Evternal dime	nsion HyWyD		mm	299 x 773 x 237	299 x 8	98 x 237	
			in.	11-25/32 x 30-7/16 x 9-11/32 11-25/32 x 35-3/8 x 9-11/32		-3/8 x 9-11/32	
Net weight kg (lbs)		11 (25) 13 (29)					
Heat exchanger		Туре			Cross fin (Aluminium fin and copper tube)		
rical contailige		Water volume	L	0.7	1.0	1.1	
	Type $ imes$ Quantity				Line Flow Fan x 1		
	External static pressure Pa		Pa		0		
	Motor type			DC Motor			
Fan	Motor output		kW		0.03		
1 un	Driving mechani	sm			Direct-Drive		
	Airflow rate (Low	(Mid High)	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	
	AITTOW TALE (LOW	-wiu-riigii)	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 pressu	re level (Low-Mid-	High)	dB <a>	22 - 30 - 36 - 41	29 - 34 - 38 - 41	30 - 36 - 41 - 45	
Insulation ma	terial			Polyethylene Sheet			
Air filter					PP Honeycomb		
Protection dev	/ice				Fuse		
Connectable of	outdoor unit/HBC (Controller			Hybrid City Multi CMB-WM-AA, CMB-WM-V-BB		
Water nining (liamotor *3 */	Inlet	mm ID		20		
water piping t		Outlet	mm ID		20		
Field drain pip	pe size		mm (in.)	I.D.16 (5/8)			
Optional	Drain Pump Kit				PAC-SK01DM-E		
Parts Valve Kit *5				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, installed 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 source					1-phase 220-240 V 50Hz			
	Consoity (Nomir	al) *1	kW	5.6	5.6 7.1 9.0			
Cooling	capacity (Norminal)		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		
	Conceilu (Nemir		kW	6.3	8.0	10.0		
Heating	Capacity (Normi	iai) z	BTU/h	21,500	27,300	34,100		
пеациу	Power input		kW	0.04	0.05	0.07		
	Current input		A	0.40	0.50	0.70		
External finish	1				Plastic (1.0Y 9.2/0.2)			
External dime	noion HyWyD		mm		365 x 1170 x 295			
External anne	IISIUII FIXWXD		in.	14-3/8 x 46-1/16 x 11-5/8				
Net weight			kg (lbs)	20 (44)				
Heat avaluate	or	Туре		Cross fin (Aluminium fin and copper tube)				
neal excitally	θI	Water volume	L		2.0			
	Type $ imes$ Quantity				Line Flow Fan x 1			
	External static pressure Pa		Pa		0			
	Motor type			DC Motor				
Ean	Motor output		kW	0.069				
Idli	Driving mechani	sm		Direct-Drive				
	Airflau rata /l.au	Med Heals)	m³/min	18 - 20	18 - 22	18 - 26		
	AITTOW Tale (LOW	(-IVIId-HIGII)	L/s	300 - 333	300 - 367	300 - 433		
			cf/m	636 - 706	636 - 777	636 - 918		
Sound pressu	re level (Low-Mid-	High)	dB < A >	39 - 42	39 - 45	39 - 49		
Insulation ma	terial				Polyethylene Sheet			
Air filter					PP Honeycomb			
Protection dev	/ice				Fuse			
Connectable of	outdoor unit/HBC (Controller			Hybrid City Multi CMB-WM-AA, CMB-WM-V-BB			
Water piping (diamator *2 *1	Inlet	mm ID	20	30			
water pipilig t	uldiiletei 5 4	Outlet	mm ID	20	30			
Field drain pip	pe size		mm (in.)		I.D.16 (5/8)			
Optional	Drain Pump Kit				PAC-SK19DM-E			
Parts	Valve Kit *5				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 sour	ce			1-phase 220-230-240 V 50/60 Hz				
	Canaaitu (Nami	nal) *1	kW	2.2	2.8	3.6		
Cooling	Capacity (Norm	Capacity (Noniniai)		7,500	9,600	12,300		
Cooling	Power input *2		kW	0.	.040	0.050		
	Current input *2	2	A	C	0.35	0.47		
	Consoity (Nomi	nol\ *0	kW	2.5	3.2	4.0		
Heating	Capacity (Norm	nan) o	BTU/h	8,500	10,900	13,600		
Healing	Power input *2		kW	0.	.040	0.050		
	Current input *2	2	A	C).35	0.47		
External fin	ish				Galvanized steel plate			
Evtornal dir	nonsion HyWyD		mm	639 x 886 x 220	639 x 1,00	16 x 220		
			in.	25-3/16 x 34-15/16 x 8-11/16 25-3/16 x 39-5/8 x 8-11/16				
Net weight	Net weight kg (lbs)		kg (lbs)	22 (49)	25 (5	6)		
Heat exchanger		Туре		Cross fin (Aluminium fin and copper tube)				
nour oxonunge	igoi	Water volume	L	0.9 1.3				
	Type $ imes$ Quantit	Type $ imes$ Quantity		Sirocco Fan x 1	Sirocco F	an x 2		
	External static r	External static pressure *4			20 - <40> - <60>			
	External otatio			2.0 - <4.1> - <6.1>				
	Motor type			DC Motor				
Fan	Motor output		kW		0.096			
	Driving mechan	ism			Direct-driven by motor			
	Airflow rate (Lo	w_Mid_High)	m³/min	4.5 - 5.0 - 6.0	6.0 - 7.0 - 8.0	7.5 - 9.0 - 10.5		
	Annow rate (Lo	w-wind-ringin)	L/s	75 - 83 - 100	100 - 117 - 133	125 - 150 - 175		
			cf/m	159 - 177 - 212	212 - 247 - 282	265 - 318 - 371		
Sound pres in anechoic	sure level (measure room)*2	d (Low-Mid-High)	dB <a>	31 -	33 - 38	31 - 35 - 38		
Insulation n	naterial				Polyethylene foam, Urethane foam			
Air filter					PP Honeycomb fabric			
Protection of	device				Fuse			
Connectabl	e outdoor unit/HBC	Controller			Hybrid City Multi CMB-WM-AA, CMB-WM-V-BB			
Water ninin	n diamatar *3 */	Inlet	mm ID		20			
	y unullicitor o 4	Outlet	mm ID		20			
Field drain	pipe size		mm (in.)	I.D.26 ((1) <accessory (1-3="" (13<="" (top="" 0.d.20="" 0.d.27="" 32)="" end:="" hose="" td=""><td>8/16))></td></accessory>	8/16))>		
Standard attachment Accessory				Insulation pipe for water pipe. Drain hose (flexible joint). Screw plate, Level adjusting screw. Hose band				

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

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. 6. 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				
Cooling	Conseilu (Nemir	al) *1	kW	4.5	5.6			
	Capacity (Normi	Capacity (Noninal)		15,400	19,100			
	Power input *2		kW	0.050	0.070			
	Current input *2		A	0.47	0.65			
Heating	Consoity (Nominal) *2		kW	5.0 6.3				
	Gapacity (NOTIT	Gapacity (Nonninai) - 5		17,100	21,500			
	Power input *2	Power input *2		0.050	0.070			
	Current input *2	Current input *2		0.47	0.65			
External finish				Galvanized steel plate				
External dimension HxWyD			mm	639 x 1,246 x 220				
		in.	25-3/16 x 49-1/16 x 8-11/16					
Net weight kg (lbs)			kg (lbs)	29 (64)				
Heat exchan	aer	Туре		Cross fin (Aluminium fin and copper tube)				
	90.	Water volume		1.5				
	Type $ imes$ Quantity	Type $ imes$ Quantity		Sirocco Fan x 2				
	External static p	External static pressure *4		20 - <40> - <60>				
				2.0 - <4.1> - <6.1>				
-	Motor type			DC Motor				
Fan	Motor output	Motor output		0.096				
	Driving mechani	sm	37.1	Direct-drive	Direct-driven by motor			
	Airflow rate (Low	Airflow rate (Low-Mid-High)		8.0 - 10.0 - 11.5	10.5 - 13.0 - 15.0			
				133 - 167 - 192	1/5 - 217 - 250			
0			ct/m	282 - 353 - 406	3/1 - 459 - 530			
Sound pressure level (measured in anechoic room)*2 (Low-Mid-High		(Low-Mid-High)	dB <a>	34 - 37 - 40	37 - 42 - 45			
Insulation material				Polyethylene foam, Urethane foam				
Air filter				PP Honeycomb fabric				
Protection d	evice			Fuse				
Connectable outdoor unit/HBC Controller				Hybrid City Multi CMB-WM-AA, CMB-WM-V-BB				
Water sining diameter *2 *4 Inlet mm ID		mm ID	20					
water hihili	julailletet 5 4	Outlet	mm ID	20)			
Field drain pipe size mm (in.)				I.D.26 (1) <accessory (1-3="" (13="" (top="" 0.d.20="" 0.d.27="" 16))="" 32)="" end:="" hose=""></accessory>				
Standard attachment Accessory				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 (Off).

3. Nominal beating 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. 6. Be sure to install a value on the water outlet.6. Install a strainer (40 mesh or more) on the pipe next to the value to remove the foreign matters.

Floor Standing Exposed



Model				PFFY-WL20VEM-A	PFFY-WL25VEM-A	PFFY-WL32VEM-A	PFFY-WL40VEM-A	PFFY-WL50VEM-A	
Power source				1-phase 220-230-240 V 50/60 Hz					
Cooling	0		kW	2.2	2.8	3.6	4.5	5.6	
	Capacity (Nominal) *1		BTU/h	7,500	9,600	12,300	15,400	19,100	
	Power input		kW	0.021	0.029	0.036	0.037	0.064	
	Current input		A	0.26-0.25-0.24	0.34-0.33-0.31	0.40-0.39-0.37	0.39-0.38-0.36	0.68-0.65-0.63	
	Capacity (Nominal) *2		kW	2.5	3.2	4.0	5.0	6.3	
Heating			BTU/h	8,500	10,900	13,600	17,100	21,500	
	Power input		kW	0.021	0.029	0.036	0.037	0.064	
	Current input		A	0.26-0.25-0.24	0.34-0.33-0.31	0.40-0.39-0.37	0.39-0.38-0.36	0.68-0.65-0.63	
External finish				Galvanized steel plate, MUNSELL (1.0Y 9.2/0.2)/ABS, MUNSELL (5.32GY 8.75/0.37)					
External dimension HxWxD *3		mm		669 (726) x 1,142 x 217	669 (726) x 1,342 x 217				
		J	in.		26-3/8 (28-5/8) x 45 x 8-9/16	26-3/8 (28-5/8) x 52-7/8 x 8-9/16			
Net weight			kg (lbs)	29.5 (67) 30 (67) 35 (78)				(78)	
Heat avalance	or	Туре		Cross fin (Aluminium fin and copper tube)					
neat excitalit	161	Water volum	e L	0.8		1.0	1.3		
	Type $ imes$ Quantity		Sirocco Fan x 2 Sirocco fan x 3						
	External static pressure		Pa	0					
			mmH ₂ 0	0.0					
	Motor type		DC Motor						
Fan	Motor output kW		0.096						
	Driving mechanism		Direct-driven by motor						
	Airflow rate (Low-Mid-High)		m³/min	5.0 - 6.0 - 7.0	5.5 - 7.0 - 8.5	6.5 - 7.5 - 9.0	8.0 - 9.5 - 11.0	10.5 - 12.5 - 14.5	
			L/s	83 - 100 - 117	92 - 117 - 142	108 - 125 - 150	133 - 158 - 183	175 - 208 - 242	
			cf/m	177 - 212 - 247	194 - 247 - 300	230 - 265 - 318	282 - 335 - 388	371 - 441 - 512	
Sound pressure level (measured in anechoic room)		(Low-Mid- High)	dB <a>	23.0-27.0-31.0	25.0-31.0-36.0	29.0-33.0-37.0	29.0-33.0-36.0	35.0-40.0-43.0	
Insulation ma	iterial			Polyethylene foam, Urethane foam					
Air filter				PP Honeycomb fabric					
Protection device				Fuse					
Connectable outdoor unit/HBC Controller				CMB-WM-V-AA, CMB-WM-FAA, CMB-WM-V-BB					
Water piping diameter *4 *5 Inlet mm ID Outlet mm ID			mm ID	20					
			mm ID	20					
Field drain pipe size mm (in.)			mm (in.)	0.D.32 (1-1/4)					
Standard attachment Accessory				Washer, Drain hose, Tie band, Leg, Leg cover, M4 screw, M5 screw					

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.).
 The values in () show the height of unit with leg.
 Be sure to install a valve on the water inlet/outlet.

5. Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.

Notes





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