MITSUBISHI ELECTRIC

Changes for the Better

for a greener tomorrow

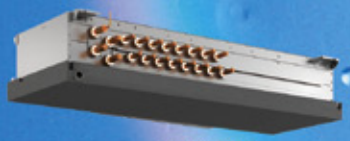
AIR CONDITIONING SYSTEMS

AN3 for YLM series

HYBRID
CITY MULTI

HBC CONTROLLER

Main-HBC



Sub-HBC

INDOOR UNIT

Slim ceiling-concealed type

Middle static pressure ceiling-concealed type

4-way flow ceiling cassette type

Floor standing concealed type

OUTDOOR UNIT

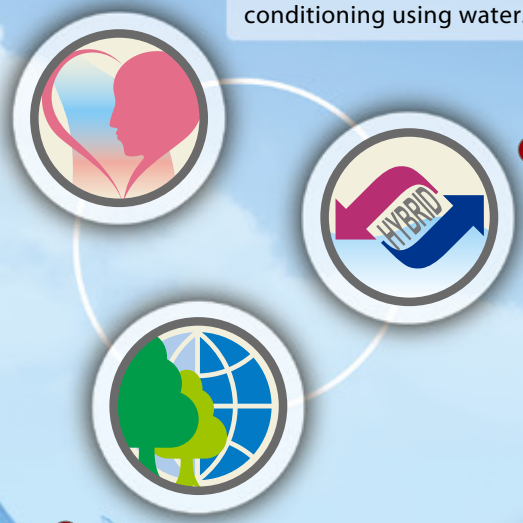
HEAT SOURCE UNIT

Mitsubishi Electric's HYBRID CITY MULTI

-The industry's first and only technology-

As a leading company in the industry, Mitsubishi Electric has developed the HYBRID CITY MULTI as a top-of-the-line CITY MULTI system by using the industry's first and only technology.

The HYBRID CITY MULTI contains the following three elements of HYBRID.



1 Ideal comfort

Providing more stable and mild air conditioning using water.

2 Energy saving

2-pipe heat recovery system is available with refrigerant and water circuit.

3 Less waste and easy installation

Easy installation compared with central air conditioning system with 4-pipe for heat recovery.

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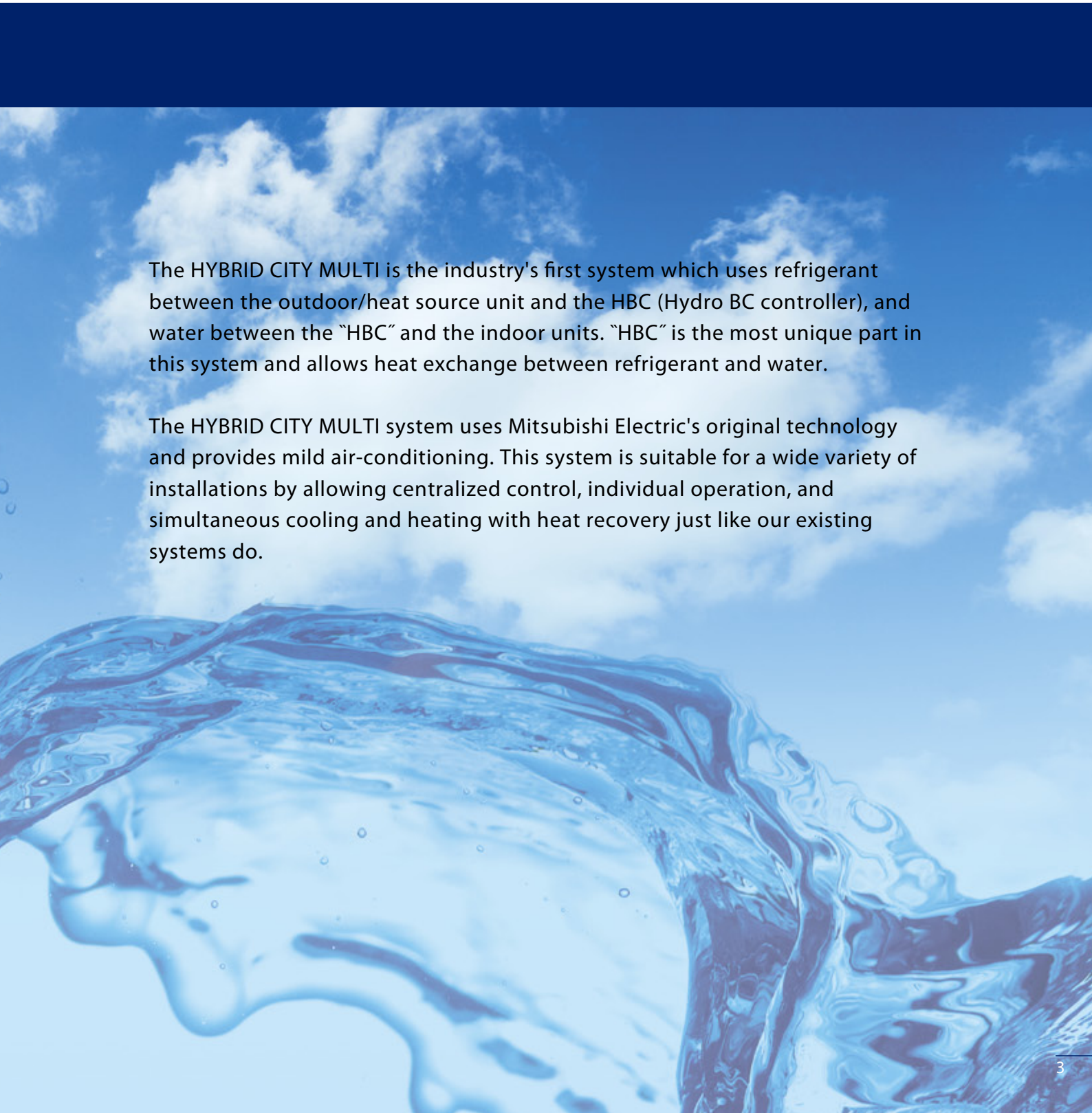


The HYBRID CITY MULTI is the industry's first system which uses refrigerant between the outdoor/heat source unit and the HBC (Hydro BC controller), and water between the "HBC" and the indoor units. "HBC" is the most unique part in this system and allows heat exchange between refrigerant and water.

The HYBRID CITY MULTI system uses Mitsubishi Electric's original technology and provides mild air-conditioning. This system is suitable for a wide variety of installations by allowing centralized control, individual operation, and simultaneous cooling and heating with heat recovery just like our existing systems do.

The reason why HYBRID CITY MULTI is unbeatable

- System Structure and Features -

HYBRID CITY MULTI is a system that uses both refrigerant and water, which was made a reality by the development of the "HBC". The refrigerant between the outdoor unit and the "HBC" produces comfortable air conditioning, and so does the water between the "HBC" and the indoor units.

Less refrigerant

The refrigerant is used only between the outdoor unit and the "HBC", contributing to the reduction of the refrigerant.
The refrigerant does not flow from the "HBC" to the indoor units.

Patented technology

Refrigerant R410A

The system monitors high pressure, low pressure, and the operation to set an appropriate compressor frequency.

Outdoor unit

R2/WR2 only

Heat source unit

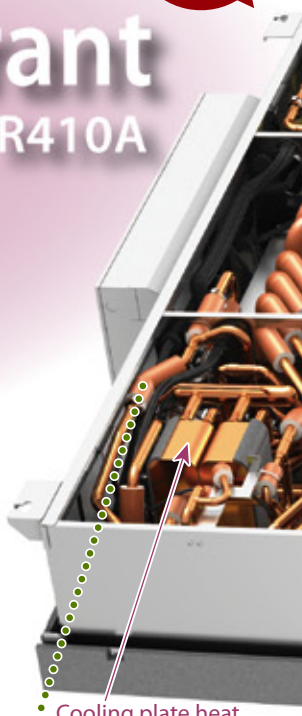
NEW

New water heat source unit (WR2) expands the installation site in high rises, frigid climates, coastal area, etc.

PQRY-P-YLM-A1 PURY-(E)P-YLM-A(1)

Refrigerant 2 pipes

High pressure gas-liquid 2-phase refrigerant

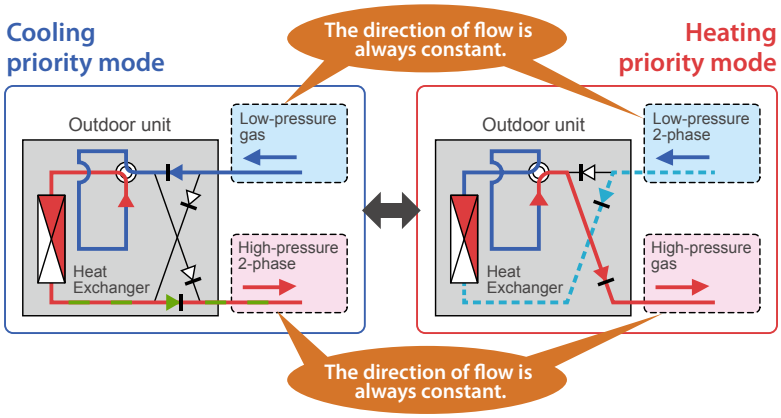


Cooling plate heat exchanger

HBC controller

Simultaneous cooling/heating operation

Provides air conditioning corresponding to various needs. With the 2-pipe system, the direction of refrigerant flow does not reverse when the cooling/heating priority mode switches. The compressor does not need to stop when the mode switches, and this allows comfortable air conditioning.



Cooling Priority Mode

If the cooling load is larger than the heating load, the outdoor/heat source unit operates the cooling priority mode which is its heat exchangers work as condenser.

Heating Priority Mode

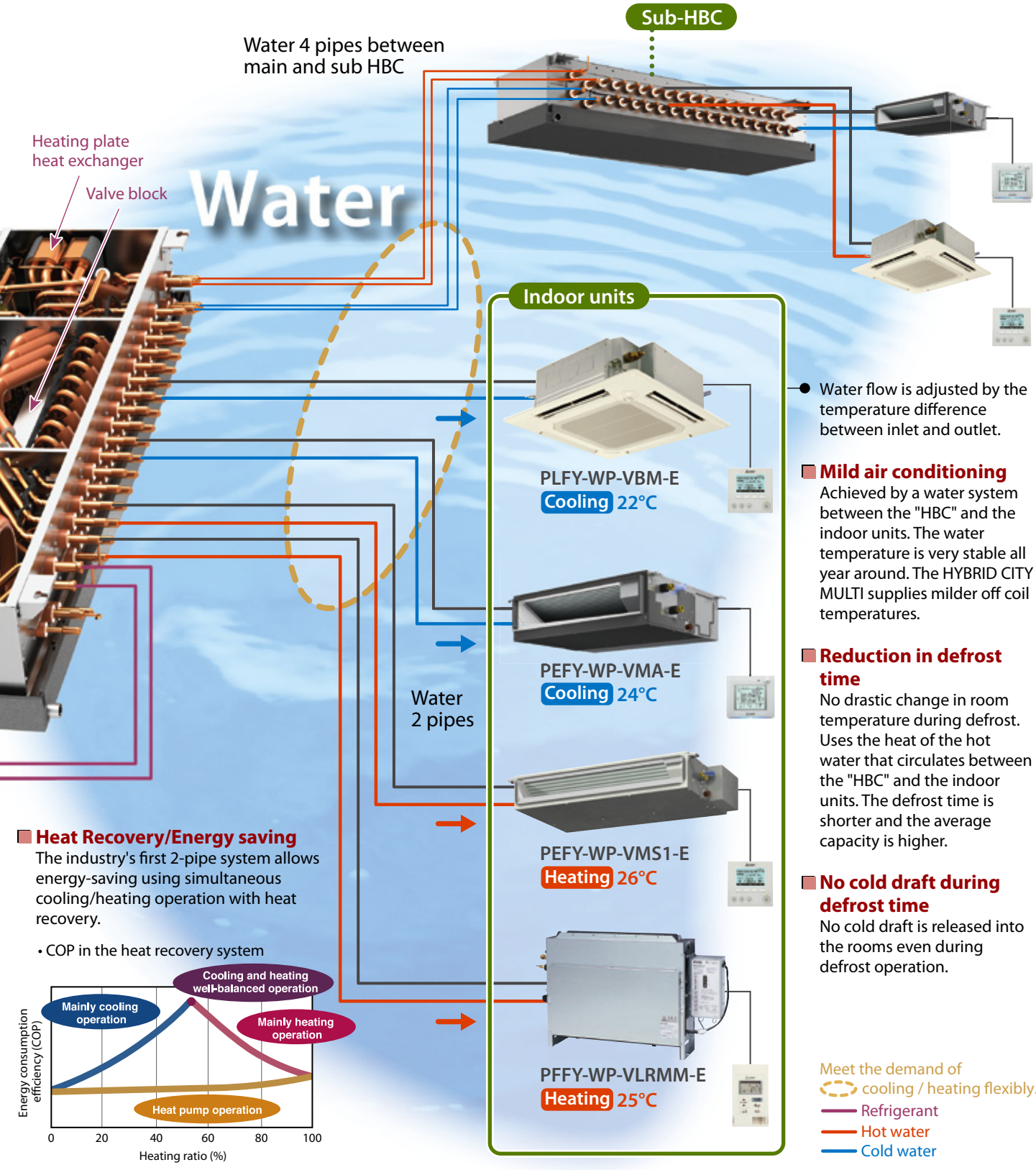
If the heating load is larger than the cooling load, the outdoor/heat source unit operates the heating priority mode which is its heat exchangers work as evaporator.

"HBC": the first and only technology

The HYBRID CITY MULTI was developed by using our own technology with the "HBC".

Heat exchange

The "HBC" is the most unique part in this system to exchange heat between refrigerant and water.



Water flow is adjusted by the temperature difference between inlet and outlet.

Mild air conditioning

Achieved by a water system between the "HBC" and the indoor units. The water temperature is very stable all year around. The HYBRID CITY MULTI supplies milder off coil temperatures.

Reduction in defrost time

No drastic change in room temperature during defrost. Uses the heat of the hot water that circulates between the "HBC" and the indoor units. The defrost time is shorter and the average capacity is higher.

No cold draft during defrost time

No cold draft is released into the rooms even during defrost operation.

Heat Recovery/Energy saving

The industry's first 2-pipe system allows energy-saving using simultaneous cooling/heating operation with heat recovery.

• COP in the heat recovery system

Meet the demand of cooling / heating flexibly.

Refrigerant

Hot water

Cold water

- Features -

Energy saving

●Energy-saving

Save more energy by heat recovery operation if cooling and heating operations are required at the same time. The more frequently cooling and heating simultaneous operation occurs, the higher the energy-saving effect becomes. Even higher efficiency operation is now possible by utilizing the centralized control and the scheduled operation.

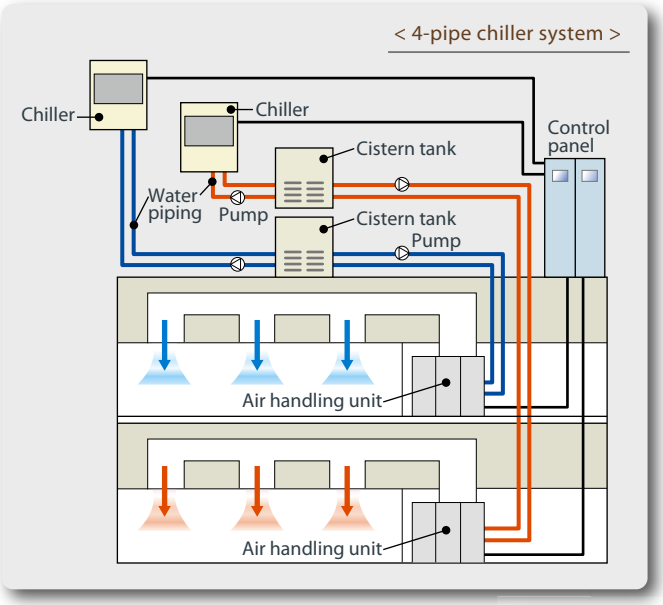
●R410A refrigerant

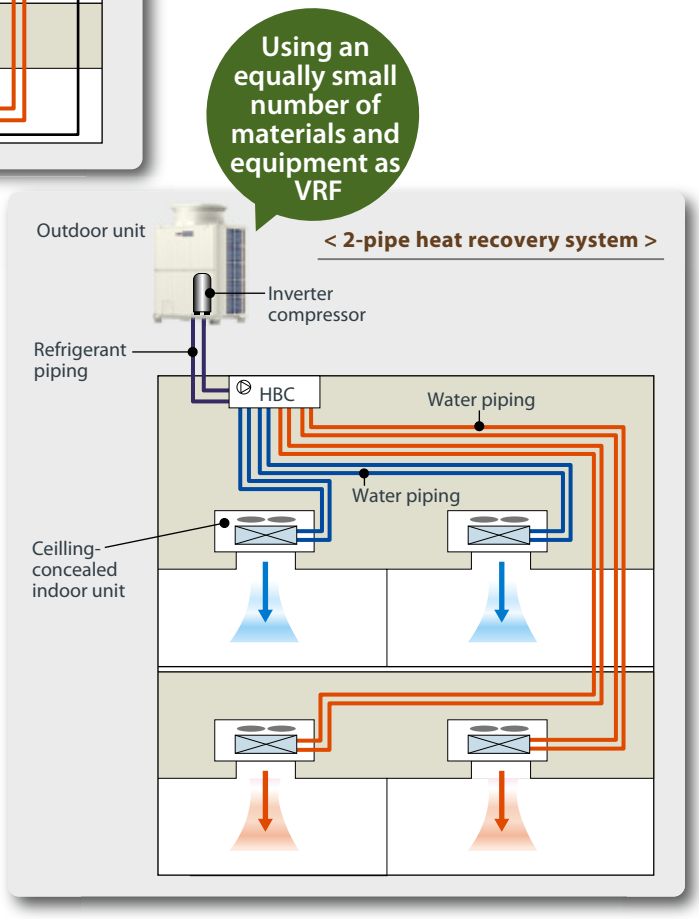
R410A refrigerant allows higher heat transfer than R22. The environmentally-friendly system has been made a reality by the significantly higher COP and the reduction of CO_2 emissions.

Comparison of COP in cooling/heating average (COP for outdoor unit only, not for the whole system)	8HP	10HP
R22 system PURY-Y(S)MF-B model	2.80	2.78
CITY MULTI PURY-EP-YLM-A1 model	3.59	3.20
Comparison	**128%**	**115%**

●Less material/equipment

This is Mitsubishi Electric's unique 2-pipe heat recovery system, which requires less pipes than a 4-pipe chiller system. Also, this system does not need the external pump, tank, and control panel that are usually necessary for chillers. A saving of natural resources in the entire system has been accomplished.

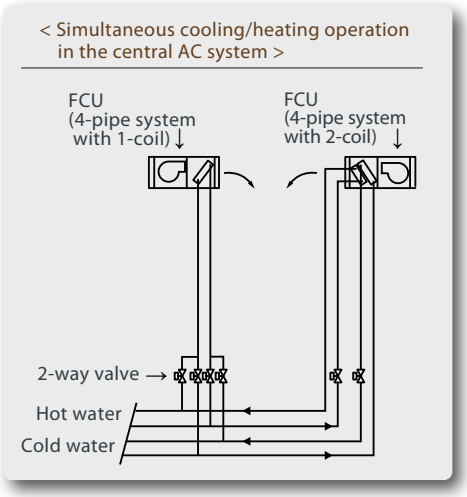


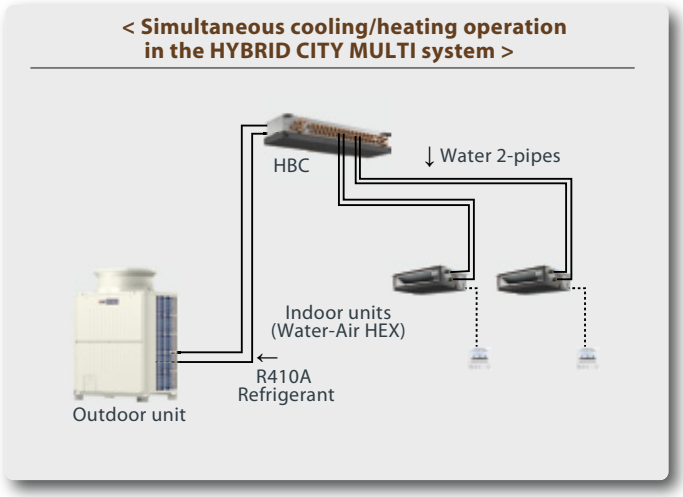


●Less installation work

Achieved by the world's first and only 2-pipe system that allows easier installation than a central Air Conditioning system. A central AC system requires 2 heat source pipes and 4-pipes.
With this 2-pipe system, we have drastically reduced the number of piping connections compared to a standard VRF 3-pipe system. A smaller number of piping connections lead to an improvement in reliability and simpler piping installation.
Also, brazing is not necessary if plastic water pipe is used between the "HBC" and the indoor units.

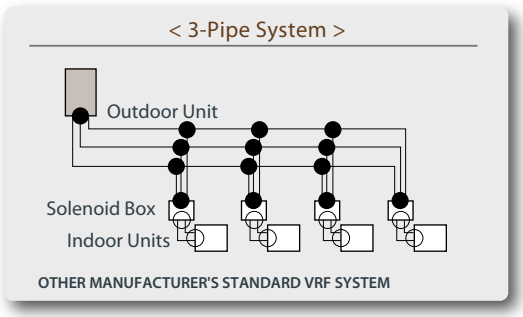
Comparison example of Central AC system and HYBRID CITY MULTI

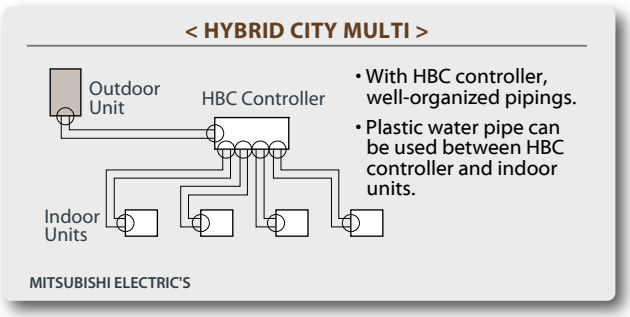




Comparison example of piping connections

○= 2 sites ●= 3 sites





- Application example -

The HYBRID CITY MULTI is suitable for various places that require individual settings (e.g., offices/hotels/hospitals/nursing homes) by using a centralized control.
Easy Installation as well as VRF system allows flexible layout.

for HOTELS

Individual settings and simultaneous cooling/heating operation allow free selection of the operation mode. Moreover, mild air-conditioning provides a comfortable environment throughout the stay.

for OFFICES

The requirement for simultaneous cooling and heating operation all year round is increasing along with the increase of electronic office equipment and diversification in use of space.
This system can provide solutions for this demand with heat recovery technology.

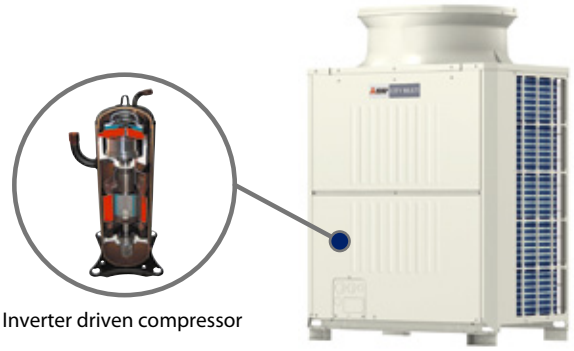
for HOSPITALS

The system can provide the appropriate levels of comforts simultaneously for the different air conditioning load requirements, such as medical offices, wards, rehabilitation rooms, and staff rooms.

Lineup

- OUTDOOR UNIT -

CITY MULTI is a heat recovery unit with an inverter driven compressor and can provide cooling and heating simultaneously.

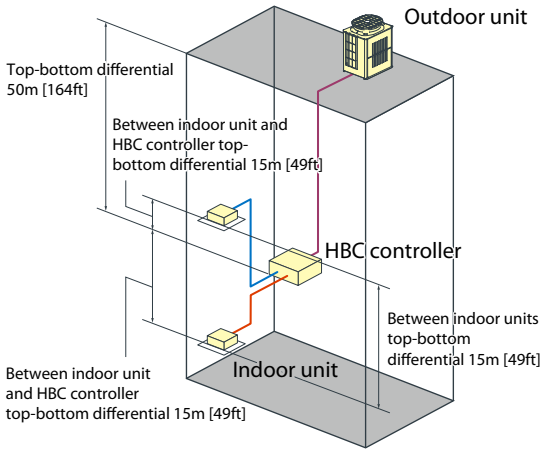


Inverter driven compressor

Lineup

Horse Power	8HP	10HP	12HP	14HP	16HP	18HP	20HP
Capacity	22.4kW	28.0kW	33.5kW	40.0kW	45.0kW	50.0kW	56.0kW

Piping length



R : Refrigerant Pipe W : Water Pipe

Refrigerant Piping Lengths	Maximum meters [Feet]
R Distance between outdoor and HBC	110 [360]
W Farthest indoor from HBC controller	60 [196]

Vertical differentials between units	Maximum meters [Feet]
R Outdoor/HBC controller	50 [164]
R HBC/outdoor (outdoor unit above HBC)	50 [164]
R HBC/outdoor (outdoor 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.

- HEAT SOURCE UNIT -

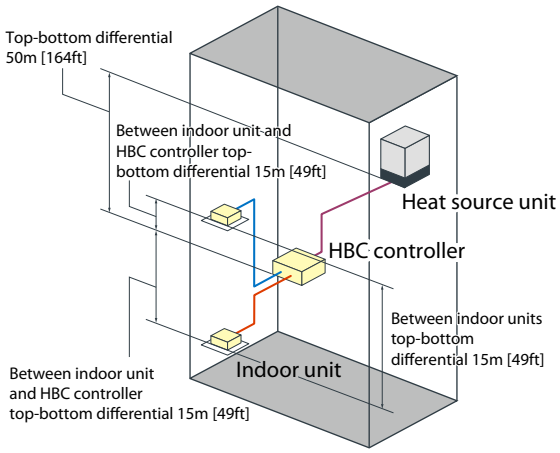
NEW

The CITY MULTI WR2 series provides all of the advantages of the R2 series with the added advantages of a water heat source system, making it suitable for wider range of applications in high rises, frigid climates, coastal areas, etc.

Lineup

Horse Power	8HP	10HP	12HP	14HP	16HP	18HP	20HP
Capacity	22.4kW	28.0kW	33.5kW	40.0kW	45.0kW	50.0kW	56.0kW

Piping length



R: Refrigerant Pipe W: Water Pipe

Refrigerant Piping Lengths	Maximum meters [Feet]
R Distance between heat source and HBC	110 [360]
W Farthest indoor from HBC controller	60 [196]

Vertical 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.

Lineup

- HBC CONTROLLER -

The "HBC" is used for the connection between the outdoor unit and the indoor units. The heat exchange for refrigerant and water is performed by using the industry's first and only technology.

Main-HBC

Sub-HBC

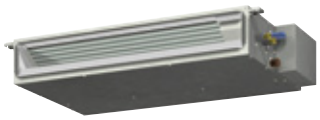
Lineup

Type	Main		Sub	
Model	CMB-WP108V-GA1	CMB-WP1016V-GA1	CMB-WP108V-GB1	CMB-WP1016V-GB1
Number of branch	8	16	8	16

- INDOOR UNIT -

- Slim ceiling-concealed type units (VMS1)
- Middle static pressure ceiling-concealed type units (VMA)
- 4-way flow ceiling cassette type units (VBM)
- Floor standing concealed type units (VLRMM)

These indoor units are exclusive for use with HYBRID CITY MULTI.



PEFY-WP-VMS1-E

PEFY-WP-VMA-E

PLFY-WP-VBM-E

PFFY-WP-VLRMM-E

Lineup

Model size	NEW WP10	WP15	WP20	WP25	WP32	WP40	WP50	NEW WP63	NEW WP71	NEW WP80	NEW WP100	NEW WP125
PEFY-WP-VMS1-E	●	●	●	●	●	●	●					
PEFY-WP-VMA-E			●	●	●	●	●	●	●	●	●	●
PLFY-WP-VBM-E					●	●	●					
PFFY-WP-VLRMM-E			●	●	●	●	●					
Capacity	1.2kW	1.7kW	2.2kW	2.8kW	3.6kW	4.5kW	5.6kW	7.1kW	8.0kW	9.0kW	11.2kW	14.0kW

- CONTROLLER -

Remote Controller

PAR-U02MEDA

PAR-33MAA(G)

PAC-YT52CRA(MA)

[Advanced functions]

- Error information
- Timer
- Operation lock
- Temperature range restriction
- Language selection

Centralized Controller

With the connection of three Expansion Controllers (AE-50E/EW-50E), a maximum of 200 units/groups can be connected to an AE-200E.

AE-200E

[Advanced functions]

- Operation setting
- Temperature setting
- Fan speed setting
- Local operation setting
- Language selection

This system also allows the use of other controllers such as AT-50B.

AT-50B

Specifications

- OUTDOOR UNIT -

Model			PURY-P200YLM-A (-BS)	PURY-P250YLM-A (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity *1		kW	22.4	28.0
(Nominal) *1		BTU / h	76,400	95,500
	Power input	kW	7.00	9.92
	Current input	A	11.8-11.2-10.8	16.7-15.9-15.3
	EER	kW / kW	3.20	2.82
Temp. range of cooling *3	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)	-5.0~46.0°C (23~115°F)
Heating capacity *2		kW	25.0	31.5
(Nominal) *2		BTU / h	85,300	107,500
	Power input	kW	7.08	10.06
	Current input	A	11.9-11.3-10.9	16.9-16.1-15.5
	COP	kW / kW	3.53	3.13
Temp. range of heating *3	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity	50~150% of outdoor unit capacity
	Model / Quantity		WP10~WP125/1~30	WP10~WP125/1~37
Sound pressure level (measured in anechoic room)		dB <A>	59	60
Sound power level (measured in anechoic room)		dB <A>	82.5	83.5
Refrigerant piping diameter	High pressure	mm (in.)	15.88 (5/8) Brazed	19.05 (3/4) Brazed
	Low pressure	mm (in.)	19.05 (3/4) Brazed	22.2 (7/8) Brazed
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1
	Air flow rate	m^3/min	185	185
		L/s	3,083	3,083
		cfm	6,532	6,532
	Control, Driving mechanism		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1
*4	External static press.		0 Pa (0 mmH_2O)	0 Pa (0 mmH_2O)
Compressor	Type		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter
	Motor output	kW	5.6	6.9
	Case heater	kW	–	–
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>
External dimension HxWxD		mm	1,710 (1,650 without legs) x 920 x 740	1,710 (1,650 without legs) x 920 x 740
		in.	67-3/8 (65 without legs) x 36-1/4 x 29-3/16	67-3/8 (65 without legs) x 36-1/4 x 29-3/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		–	–
	Fan motor		–	–
Refrigerant	Type x original charge		R410A x 9.5 kg (21 lbs)	R410A x 9.5 kg (21 lbs)
Net weight		kg (lbs)	205 (452)	205 (452)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle, Hot gas)	Auto-defrost mode (Reversed refrigerant cycle, Hot gas)
Optional parts			Main HBC controller: CMB-WP108,1016V-GA1 Sub HBC controller: CMB-WP108,1016V-GB1	Main HBC controller: CMB-WP108,1016V-GA1 Sub HBC controller: CMB-WP108,1016V-GB1

Notes:

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

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

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

4.External static pressure option is available (30 Pa, 60 Pa/3.1 mmH_2O, 6.1 mmH_2O).

*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.

Unit converter

BTU / h =kW × 3,412
cfm =m^3 / min × 35.31
lbs =kg / 0.4536

*Above specification data is subject to rounding variation.

Model			PURY-P300YLM-A (-BS)		PURY-P350YLM-A (-BS)	
Number of HBC controller			Single HBC	Double HBC	Single HBC	Double HBC
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1	kW	33.5		40.0	
	*1	BTU / h	114,300		136,500	
	Power input	kW	13.34	11.31	17.93	14.59
	Current input	A	22.5-21.3-20.6	19.0-18.1-17.4	30.2-28.7-27.7	24.6-23.3-22.5
	EER	kW / kW	2.51	2.96	2.23	2.74
Temp. range of cooling *3	Indoor	W.B.	15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)	
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)		-5.0~46.0°C (23~115°F)	
Heating capacity (Nominal)	*2	kW	37.5		45.0	
	*2	BTU / h	128,000		153,500	
	Power input	kW	12.71	11.94	15.51	14.35
	Current input	A	21.4-20.3-19.6	20.1-19.1-18.4	26.1-24.8-23.9	24.2-23.0-22.1
	COP	kW / kW	2.95	3.14	2.90	3.13
Temp. range of heating *3	Indoor	D.B.	15.0~27.0°C (59~81°F)		15.0~27.0°C (59~81°F)	
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)		-20.0~15.5°C (-4~60°F)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	Model / Quantity		WP10~WP125/2~45		WP10~WP125/2~50	
Sound pressure level (measured in anechoic room)		dB <A>	62.5		62.5	
Sound power level (measured in anechoic room)		dB <A>	86		86	
Refrigerant piping diameter	High pressure	mm (in.)	19.05 (3/4) Brazed		19.05 (3/4) Brazed	
	Low pressure	mm (in.)	22.2 (7/8) Brazed		28.58 (1-1/8) Brazed	
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1	
	Air flow rate	m^3/min	230		230	
		L/s	3,833		3,833	
		cfm	8,121		8,121	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
	Motor output	kW	0.92 x 1		0.92 x 1	
*4	External static press.		0 Pa (0 mmH_2O)		0 Pa (0 mmH_2O)	
Compressor	Type		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Starting method		Inverter		Inverter	
	Motor output	kW	8.1		10.5	
	Case heater	kW	–		–	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension HxWxD		mm	1,710 (1,650 without legs) x 1,220 x 740		1,710 (1,650 without legs) x 1,220 x 740	
		in.	67-3/8 (65 without legs) x 48-1/16 x 29-3/16		67-3/8 (65 without legs) x 48-1/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		–		–	
	Fan motor		–		–	
Refrigerant	Type x original charge		R410A x 10.3 kg (23 lbs)		R410A x 10.3 kg (23 lbs)	
Net weight		kg (lbs)	248 (547)		248 (547)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle, Hot gas)		Auto-defrost mode (Reversed refrigerant cycle, Hot gas)	
Optional parts			Main HBC controller: CMB-WP108, 1016V-GA1 Sub HBC controller: CMB-WP108, 1016V-GB1		Main HBC controller: CMB-WP108, 1016V-GA1 Sub HBC controller: CMB-WP108, 1016V-GB1	

Notes:

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

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

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

4.External static pressure option is available (30 Pa, 60 Pa/3.1 mmH_2O, 6.1 mmH_2O).

*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.

Unit converter

BTU / h =kW × 3,412
cfm =m^3 / min × 35.31
lbs =kg / 0.4536

*Above specification data is subject to rounding variation.

- OUTDOOR UNIT -

Model			PURY-P400YLM-A (-BS)	PURY-P450YLM-A (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity (Nominal)	*1	kW	45.0	50.0
	*1	BTU / h	153,500	170,600
	Power input	kW	16.65	17.92
	Current input	A	28.1-26.7-25.7	30.2-28.7-27.7
	EER	kW / kW	2.70	2.79
Temp. range of cooling *3	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)	-5.0~46.0°C (23~115°F)
Heating capacity (Nominal)	*2	kW	45.0	56.0
	*2	BTU / h	153,500	191,100
	Power input	kW	13.39	17.39
	Current input	A	22.6-21.4-20.6	29.3-27.8-26.8
	COP	kW / kW	3.36	3.22
Temp. range of heating *3	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity	50~150% of outdoor unit capacity
	Model / Quantity		WP10~WP125/2~50	WP10~WP125/2~50
Sound pressure level (measured in anechoic room)		dB <A>	62.5	62.5
Sound power level (measured in anechoic room)		dB <A>	86	86
Refrigerant piping diameter	High pressure	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2
	Air flow rate	m^3/min	230	320
		L/s	3,833	5,333
		cfm	8,121	11,299
	Control, Driving mechanism		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 2
*4	External static press.		0 Pa (0 mmH_2O)	0 Pa (0 mmH_2O)
Compressor	Type		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter
	Motor output	kW	10.9	12.4
	Case heater	kW	–	–
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>
External dimension HxWxD		mm	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,750 x 740
		in.	67-3/8 (65 without legs) x 48-1/16 x 29-3/16	67-3/8 (65 without legs) x 68-15/16 x 29-3/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP/FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		–	–
	Fan motor		–	–
Refrigerant	Type x original charge		R410A x 10.3 kg (23 lbs)	R410A x 11.8 kg (27 lbs)
Net weight		kg (lbs)	246 (543)	321 (708)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle, Hot gas)	Auto-defrost mode (Reversed refrigerant cycle, Hot gas)
Optional parts			Main HBC controller: CMB-WP108,1016V-GA1 Sub HBC controller: CMB-WP108,1016V-GB1	Main HBC controller: CMB-WP108,1016V-GA1 Sub HBC controller: CMB-WP108,1016V-GB1

Notes:
1.Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Outdoor: 35°CD.B. (95°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
2.Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CD.B. (68°FD.B.), Outdoor: 7°CD.B./6°CW.B. (45°FD.B./43°FW.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
3.-5°CD.B. (23°FD.B.)/-6°CW.B. (21°FW.B.) to 21°CD.B. (70°FD.B.)/15.5°CW.B. (60°FW.B.)
with cooling/heating mixed operation.
4.External static pressure option is available (30 Pa, 60 Pa/3.1 mmH_2O, 6.1 mmH_2O).
*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.

Unit converter

BTU / h =kW × 3,412
cfm =m^3 / min × 35.31
lbs =kg / 0.4536
*Above specification data is subject to rounding variation.

Model			PURY-P500YLM-A1 (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity (Nominal)	*1	kW	56.0
	*1	BTU / h	191,100
	Power input	kW	22.67
	Current input	A	38.2-36.3-35.0
	EER	kW / kW	2.47
Temp. range of cooling *3	Indoor	W.B.	15.0~24.0°C (59~75°F)
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)
Heating capacity (Nominal)	*2	kW	58.0
	*2	BTU / h	197,900
	Power input	kW	17.53
	Current input	A	29.5-28.1-27.0
	COP	kW / kW	3.30
Temp. range of heating *3	Indoor	D.B.	15.0~27.0°C (59~81°F)
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity
	Model / Quantity		WP10~WP125/2~50
Sound pressure level (measured in anechoic room)		dB <A>	63.5
Sound power level (measured in anechoic room)		dB <A>	87
Refrigerant piping diameter	High pressure	mm (in.)	22.2 (7/8) Brazed
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed
FAN	Type x Quantity		Propeller fan x 2
	Air flow rate	m^3/min	380
		L/s	6,333
		cfm	13,418
	Control, Driving mechanism		Inverter-control, Direct-driven by motor
	Motor output	kW	0.92 x 2
*4	External static press.		0 Pa (0 mmH_2O)
Compressor	Type		Inverter scroll hermetic compressor
	Starting method		Inverter
	Motor output	kW	13.4
	Case heater	kW	–
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>
External dimension HxWxD		mm	1,710 (1,650 without legs) x 1,750 x 740
		in.	67-3/8 (65 without legs) x 68-15/16 x 29-3/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection
	Compressor		–
	Fan motor		–
Refrigerant	Type x original charge		R410A x 11.8 kg (27 lbs)
Net weight		kg (lbs)	321 (708)
Heat exchanger			Salt-resistant cross fin & copper tube
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle, Hot gas)
Optional parts			Main HBC controller: CMB-WP108,1016V-GA1 Sub HBC controller: CMB-WP108,1016V-GB1

Notes:
1.Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Outdoor: 35°CD.B. (95°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
2.Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CD.B. (68°FD.B.), Outdoor: 7°CD.B./6°CW.B. (45°FD.B./43°FW.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
3.-5°CD.B. (23°FD.B.)/-6°CW.B. (21°FW.B.) to 21°CD.B. (70°FD.B.)/15.5°CW.B. (60°FW.B.)
with cooling/heating mixed operation.
4.External static pressure option is available (30 Pa, 60 Pa/3.1 mmH_2O, 6.1 mmH_2O).
*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.

Unit converter

BTU / h =kW × 3,412
cfm =m^3 / min × 35.31
lbs =kg / 0.4536
*Above specification data is subject to rounding variation.

- OUTDOOR UNIT -

Model			PURY-EP200YLM-A1 (-BS)	PURY-EP250YLM-A1 (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity *1		kW	22.4	28.0
(Nominal) *1		BTU / h	76,400	95,500
	Power input	kW	6.27	8.77
	Current input	A	10.5-10.0-9.6	14.8-14.0-13.5
	EER	kW / kW	3.57	3.19
Temp. range of cooling *3	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)	-5.0~46.0°C (23~115°F)
Heating capacity *2		kW	25.0	31.5
(Nominal) *2		BTU / h	85,300	107,500
	Power input	kW	6.92	9.84
	Current input	A	11.6-11.0-10.6	16.6-15.7-15.2
	COP	kW / kW	3.61	3.20
Temp. range of heating *3	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity	50~150% of outdoor unit capacity
	Model / Quantity		WP10~WP125/1~30	WP10~WP125/1~37
Sound pressure level (measured in anechoic room)		dB <A>	59	60
Sound power level (measured in anechoic room)		dB <A>	82.5	83.5
Refrigerant piping diameter	High pressure	mm (in.)	15.88 (5/8) Brazed	19.05 (3/4) Brazed
	Low pressure	mm (in.)	19.05 (3/4) Brazed	22.2 (7/8) Brazed
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1
	Air flow rate	m^3/min	185	185
		L/s	3,083	3,083
		cfm	6,532	6,532
	Control, Driving mechanism		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1
*4	External static press.		0 Pa (0 mmH_2O)	0 Pa (0 mmH_2O)
Compressor	Type		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter
	Motor output	kW	5.6	6.9
	Case heater	kW	–	–
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>
External dimension HxWxD		mm	1,710 (1,650 without legs) x 920 x 740	1,710 (1,650 without legs) x 920 x 740
		in.	67-3/8 (65 without legs) x 36-1/4 x 29-3/16	67-3/8 (65 without legs) x 36-1/4 x 29-3/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		–	–
	Fan motor		–	–
Refrigerant	Type x original charge		R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)
Net weight		kg (lbs)	202 (446)	202 (446)
Heat exchanger			Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle, Hot gas)	Auto-defrost mode (Reversed refrigerant cycle, Hot gas)
Optional parts			Main HBC controller: CMB-WP108,1016V-GA1 Sub HBC controller: CMB-WP108,1016V-GB1	Main HBC controller: CMB-WP108,1016V-GA1 Sub HBC controller: CMB-WP108,1016V-GB1

Notes:

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

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

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

4.External static pressure option is available (30 Pa, 60 Pa/3.1 mmH_2O, 6.1 mmH_2O).

*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.

Unit converter

BTU / h =kW × 3,412
cfm =m^3 / min × 35.31
lbs =kg / 0.4536

*Above specification data is subject to rounding variation.

Model			PURY-EP300YLM-A1 (-BS)		PURY-EP350YLM-A1 (-BS)	
Number of HBC controller			Single HBC	Double HBC	Single HBC	Double HBC
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1	kW	33.5		40.0	
	*1	BTU / h	114,300		136,500	
	Power input	kW	12.05	10.24	17.16	13.98
	Current input	A	20.3-19.3-18.6	17.2-16.4-15.8	28.9-27.5-26.5	23.6-22.4-21.6
	EER	kW / kW	2.78	3.27	2.33	2.86
Temp. range of cooling *3	Indoor	W.B.	15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)	
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)		-5.0~46.0°C (23~115°F)	
Heating capacity (Nominal)	*2	kW	37.5		45.0	
	*2	BTU / h	128,000		153,500	
	Power input	kW	11.71	11.12	15.38	14.28
	Current input	A	19.7-18.7-18.1	18.7-17.8-17.1	25.9-24.6-23.7	24.1-22.9-22.0
	COP	kW / kW	3.20	3.37	2.92	3.15
Temp. range of heating *3	Indoor	D.B.	15.0~27.0°C (59~81°F)		15.0~27.0°C (59~81°F)	
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)		-20.0~15.5°C (-4~60°F)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	Model / Quantity		WP10~WP125/2~45		WP10~WP125/2~50	
Sound pressure level (measured in anechoic room)		dB <A>	62.5		62.5	
Sound power level (measured in anechoic room)		dB <A>	86		86	
Refrigerant piping diameter	High pressure	mm (in.)	19.05 (3/4) Brazed		19.05 (3/4) Brazed	
	Low pressure	mm (in.)	22.2 (7/8) Brazed		28.58 (1-1/8) Brazed	
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1	
	Air flow rate	m^3/min	230		230	
		L/s	3,833		3,833	
		cfm	8,121		8,121	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
	Motor output	kW	0.92 x 1		0.92 x 1	
*4	External static press.		0 Pa (0 mmH_2O)		0 Pa (0 mmH_2O)	
Compressor	Type		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Starting method		Inverter		Inverter	
	Motor output	kW	8.1		10.5	
	Case heater	kW	–		–	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension HxWxD		mm	1,710 (1,650 without legs) x 1,220 x 740		1,710 (1,650 without legs) x 1,220 x 740	
		in.	67-3/8 (65 without legs) x 48-1/16 x 29-3/16		67-3/8 (65 without legs) x 48-1/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		–		–	
	Fan motor		–		–	
Refrigerant	Type x original charge		R410A x 8.0 kg (18 lbs)		R410A x 8.0 kg (18 lbs)	
Net weight		kg (lbs)	244 (538)		244 (538)	
Heat exchanger			Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube	
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle, Hot gas)		Auto-defrost mode (Reversed refrigerant cycle, Hot gas)	
Optional parts			Main HBC controller: CMB-WP108, 1016V-GA1 Sub HBC controller: CMB-WP108, 1016V-GB1		Main HBC controller: CMB-WP108, 1016V-GA1 Sub HBC controller: CMB-WP108, 1016V-GB1	

Notes:
1.Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Outdoor: 35°CD.B. (95°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
2.Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CD.B. (68°FD.B.), Outdoor: 7°CD.B./6°CW.B. (45°FD.B./43°FW.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
3.-5°CD.B. (23°FD.B.)/-6°CW.B. (21°FW.B.) to 21°CD.B. (70°FD.B.)/15.5°CW.B. (60°FW.B.)
with cooling/heating mixed operation.
4.External static pressure option is available (30 Pa, 60 Pa/3.1 mmH_2O, 6.1 mmH_2O).
*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.

Unit converter

BTU / h =kW × 3,412
cfm =m^3 / min × 35.31
lbs =kg / 0.4536
*Above specification data is subject to rounding variation.

- OUTDOOR UNIT -

Model			PURY-EP400YLM-A1 (-BS)	PURY-EP450YLM-A1 (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity *1		kW	45.0	50.0
(Nominal) *1		BTU / h	153,500	170,600
	Power input	kW	13.88	16.83
	Current input	A	23.4-22.2-21.4	28.4-26.9-26.0
	EER	kW / kW	3.24	2.97
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling *3	Outdoor	D.B.	-5.0~46.0°C (23~115°F)	-5.0~46.0°C (23~115°F)
Heating capacity *2		kW	50.0	56.0
(Nominal) *2		BTU / h	170,600	191,100
	Power input	kW	14.12	16.86
	Current input	A	23.8-22.6-21.8	28.4-27.0-26.0
	COP	kW / kW	3.54	3.32
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
heating *3	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit	Total capacity		50~150% of outdoor unit capacity	50~150% of outdoor unit capacity
connectable	Model / Quantity		WP10~WP125/2~50	WP10~WP125/2~50
Sound pressure level (measured in anechoic room)		dB <A>	62.5	62.5
Sound power level (measured in anechoic room)		dB <A>	86	86
Refrigerant piping	High pressure	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed
diameter	Low pressure	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2
	Air flow rate	m^3/min	320	320
		L/s	5,333	5,333
		cfm	11,299	11,299
	Control, Driving mechanism		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
	Motor output	kW	0.92 x 2	0.92 x 2
*4	External static press.		0 Pa (0 mmH_2O)	0 Pa (0 mmH_2O)
Compressor	Type		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter
	Motor output	kW	10.9	12.4
	Case heater	kW	–	–
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>
External dimension HxWxD		mm	1,710 (1,650 without legs) x 1,750 x 740	1,710 (1,650 without legs) x 1,750 x 740
		in.	67-3/8 (65 without legs) x 68-15/16 x 29-3/16	67-3/8 (65 without legs) x 68-15/16 x 29-3/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		–	–
	Fan motor		–	–
Refrigerant	Type x original charge		R410A x 10.5 kg (24 lbs)	R410A x 11.8 kg (27 lbs)
Net weight		kg (lbs)	315 (695)	336 (741)
Heat exchanger			Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle, Hot gas)	Auto-defrost mode (Reversed refrigerant cycle, Hot gas)
Optional parts			Main HBC controller: CMB-WP108,1016V-GA1 Sub HBC controller: CMB-WP108,1016V-GB1	Main HBC controller: CMB-WP108,1016V-GA1 Sub HBC controller: CMB-WP108,1016V-GB1

Notes:

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

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

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

4.External static pressure option is available (30 Pa, 60 Pa/3.1 mmH_2O, 6.1 mmH_2O).

*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.

Unit converter

BTU / h =kW × 3,412
cfm =m^3 / min × 35.31
lbs =kg / 0.4536

*Above specification data is subject to rounding variation.

Model			PURY-EP500YLM-A1 (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity (Nominal)	*1	kW	56.0
	*1	BTU / h	191,100
	Power input	kW	21.22
	Current input	A	35.8-34.0-32.8
	EER	kW / kW	2.63
Temp. range of cooling *3	Indoor	W.B.	15.0~24.0°C (59~75°F)
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)
Heating capacity (Nominal)	*2	kW	63.0
	*2	BTU / h	215,000
	Power input	kW	21.67
	Current input	A	36.5-34.7-33.4
	COP	kW / kW	2.90
Temp. range of heating *3	Indoor	D.B.	15.0~27.0°C (59~81°F)
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity
	Model / Quantity		WP10~WP125/2~50
Sound pressure level (measured in anechoic room)		dB <A>	63.5
Sound power level (measured in anechoic room)		dB <A>	87
Refrigerant piping diameter	High pressure	mm (in.)	22.2 (7/8) Brazed
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed
FAN	Type x Quantity		Propeller fan x 2
	Air flow rate	m^3/min	380
		L/s	6,333
		cfm	13,418
	Control, Driving mechanism		Inverter-control, Direct-driven by motor
	Motor output	kW	0.92 x 2
*4	External static press.		0 Pa (0 mmH_2O)
Compressor	Type		Inverter scroll hermetic compressor
	Starting method		Inverter
	Motor output	kW	13.4
	Case heater	kW	0.045 (240 V)
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>
External dimension HxWxD		mm	1,710 (1,650 without legs) x 1,750 x 740
		in.	67-3/8 (65 without legs) x 68-15/16 x 29-3/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection
	Compressor		–
	Fan motor		–
Refrigerant	Type x original charge		R410A x 11.8 kg (27 lbs)
Net weight		kg (lbs)	349 (770)
Heat exchanger			Salt-resistant cross fin & aluminium tube
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle, Hot gas)
Optional parts			Main HBC controller: CMB-WP108,1016V-GA1 Sub HBC controller: CMB-WP108,1016V-GB1

Notes:
1.Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Outdoor: 35°CD.B./24°CW.B. (95°FD.B./75°FW.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
2.Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CD.B. (68°FD.B.), Outdoor: 7°CD.B./6°CW.B. (45°FD.B./43°FW.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
3.-5°CD.B. (23°FD.B.)/-6°CW.B. (21°FW.B.) to 21°CD.B. (70°FD.B.)/15.5°CW.B. (60°FW.B.)
with cooling/heating mixed operation.
4.External static pressure option is available (30 Pa, 60 Pa/3.1 mmH_2O, 6.1 mmH_2O).
*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.

Unit converter

BTU / h =kW × 3,412
cfm =m^3 / min × 35.31
lbs =kg / 0.4536
*Above specification data is subject to rounding variation.

NEW

- HEAT SOURCE UNIT -

Model			PQRY-P200YLM-A1	PQRY-P250YLM-A1
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity (Nominal)	*1	kW	22.4	28.0
	*1	BTU / h	76,400	95,500
	Power input	kW	3.97	5.44
	Current input	A	6.7-6.3-6.1	9.1-8.7-8.4
	EER	kW / kW	5.64	5.14
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
	Circulating water	°C	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)
Heating capacity (Nominal)	*2	kW	25.0	31.5
	*2	BTU / h	85,300	107,500
	Power input	kW	4.04	5.41
	Current input	A	6.8-6.4-6.2	9.1-8.6-8.3
	COP	kW / kW	6.18	5.82
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
	Circulating water	°C	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity	50~150% of heat source unit capacity
	Model / Quantity		WP10~WP125/1~30	WP10~WP125/1~37
Sound pressure level (measured in anechoic room)		dB <A>	46	48
Refrigerant piping diameter	High pressure	mm (in.)	15.88 (5/8) Brazed	19.05 (3/4) Brazed
	Low pressure	mm (in.)	19.05 (3/4) Brazed	22.2 (7/8) Brazed
Circulating water	Water flow rate	m^3 / h	5.76	5.76
		L/min	96	96
		cfm	3.4	3.4
	Pressure drop	kPa	24	24
	Operating volume range	m^3 / h	3.0 ~ 7.2	3.0 ~ 7.2
Compressor	Type		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter
	Motor output	kW	4.8	6.2
	Case heater	kW	–	–
External finish			Galvanized steel sheets	Galvanized steel sheets
External dimension HxWxD		mm	1,100 x 880 x 550	1,100 x 880 x 550
		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP.)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)
Net weight		kg (lbs)	173 (382)	173 (382)
Heat exchanger			plate type	plate type
	Water volume in plate	L	5.0	5.0
	Water pressure Max.	MPa	2.0	2.0
Optional parts			Main HBC controller: CMB-WP108, 1016-GA1 Sub HBC controller: CMB-WP108, 1016-GB1	Main HBC controller: CMB-WP108, 1016V-GA1 Sub HBC controller: CMB-WP108, 1016V-GB1

Notes:
1.Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Water temperature: 30°C (86°F)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
2.Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CD.B. (68°FD.B.), Water temperature: 20°C (68°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Unit converter

BTU / h =kW × 3,412
cfm =m^3 / min × 35.31
lbs =kg / 0.4536
*Above specification data is subject to rounding variation.

Model			PQRY-P300YLM-A1		PQRY-P350YLM-A1	
Number of HBC controller			Single HBC	Double HBC	Single HBC	Double HBC
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1	kW	33.5		40.0	
	*1	BTU / h	114,300		136,500	
	Power input	kW	7.55	6.71	9.98	8.72
	Current input	A	12.7-12.1-11.6	11.3-10.7-10.3	16.8-16.0-15.4	14.7-13.9-13.4
	EER	kW / kW	4.43	4.99	4.00	4.58
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)	
	Circulating water	°C	10.0~45.0°C (50~113°F)		10.0~45.0°C (50~113°F)	
Heating capacity (Nominal)	*2	kW	37.5		45.0	
	*2	BTU / h	128,000		153,500	
	Power input	kW	7.13	6.79	8.87	8.25
	Current input	A	12.0-11.4-11.0	11.4-10.8-10.4	14.9-14.2-13.7	13.9-13.2-12.7
	COP	kW / kW	5.25	5.52	5.07	5.45
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)		15.0~27.0°C (59~81°F)	
	Circulating water	°C	10.0~45.0°C (50~113°F)		10.0~45.0°C (50~113°F)	
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity	
	Model / Quantity		WP10~WP125/2~45		WP10~WP125/2~50	
Sound pressure level (measured in anechoic room)		dB <A>	54		52	
Refrigerant piping diameter	High pressure	mm (in.)	19.05 (3/4) Brazed		22.2 (7/8) Brazed	
	Low pressure	mm (in.)	22.2 (7/8) Brazed		28.58 (1-1/8) Brazed	
Circulating water	Water flow rate	m^3 / h	5.76		7.20	
		L/min	96		120	
		cfm	3.4		4.2	
	Pressure drop	kPa	24		44	
	Operating volume range	m^3 / h	3.0 ~ 7.2		4.5 ~ 11.6	
Compressor	Type		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Starting method		Inverter		Inverter	
	Motor output	kW	7.7		9.5	
	Case heater	kW	–		–	
External finish			Galvanized steel sheets		Galvanized steel sheets	
External dimension HxWxD		mm	1,100 x 880 x 550		1,450 x 880 x 550	
		in.	43-5/16 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP.)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection		Over-heat protection	
Refrigerant	Type x original charge		R410A x 5.0 kg (12 lbs)		R410A x 6.0 kg (14 lbs)	
Net weight		kg (lbs)	173 (382)		217 (479)	
Heat exchanger			plate type		plate type	
	Water volume in plate	L	5.0		5.0	
	Water pressure Max.	MPa	2.0		2.0	
Optional parts			Main HBC controller: CMB-WP108, 1016V-GA1 Sub HBC controller: CMB-WP108, 1016V-GB1		Main HBC controller: CMB-WP108, 1016V-GA1 Sub HBC controller: CMB-WP108, 1016V-GB1	

Notes:

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

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

Unit converter

BTU / h =kW × 3,412
cfm =m^3 / min × 35.31
lbs =kg / 0.4536

*Above specification data is subject to rounding variation.

NEW

- HEAT SOURCE UNIT -

Model			PQRY-P400YLM-A1	PQRY-P450YLM-A1
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity (Nominal)	*1	kW	45.0	50.0
	*1	BTU / h	153,500	170,600
	Power input	kW	10.05	12.05
	Current input	A	16.9-16.1-15.5	20.3-19.3-18.6
	EER	kW / kW	4.47	4.14
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
	Circulating water	°C	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)
Heating capacity (Nominal)	*2	kW	50.0	56.0
	*2	BTU / h	170,600	191,100
	Power input	kW	9.45	11.11
	Current input	A	15.9-15.1-14.6	18.7-17.8-17.1
	COP	kW / kW	5.29	5.04
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
	Circulating water	°C	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity	50~150% of heat source unit capacity
	Model / Quantity		WP10~WP125/2~50	WP10~WP125/2~50
Sound pressure level (measured in anechoic room)		dB <A>	52	54
Refrigerant piping diameter	High pressure	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Circulating water	Water flow rate	m^3 / h	7.20	7.20
		L/min	120	120
		cfm	4.2	4.2
	Pressure drop	kPa	44	44
	Operating volume range	m^3 / h	4.5 ~ 11.6	4.5 ~ 11.6
Compressor	Type		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter
	Motor output	kW	10.7	11.6
	Case heater	kW	–	–
External finish			Galvanized steel sheets	Galvanized steel sheets
External dimension HxWxD		mm	1,450 x 880 x 550	1,450 x 880 x 550
		in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP.)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)
Net weight		kg (lbs)	217 (479)	217 (479)
Heat exchanger			plate type	plate type
	Water volume in plate	L	5.0	5.0
	Water pressure Max.	MPa	2.0	2.0
Optional parts			Main HBC controller: CMB-WP108, 1016V-GA1 Sub HBC controller: CMB-WP108, 1016V-GB1	Main HBC controller: CMB-WP108, 1016V-GA1 Sub HBC controller: CMB-WP108, 1016V-GB1

Notes:
1.Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Water temperature: 30°C (86°F)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
2.Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CD.B. (68°FD.B.), Water temperature: 20°C (68°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Unit converter

BTU / h =kW × 3,412
cfm =m^3 / min × 35.31
lbs =kg / 0.4536
*Above specification data is subject to rounding variation.

Model			PQRY-P500YLM-A1
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity (Nominal)	*1	kW	56.0
	*1	BTU / h	191,100
	Power input	kW	14.58
	Current input	A	24.6-23.3-22.5
	EER	kW / kW	3.84
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)
	Circulating water	°C	10.0~45.0°C (50~113°F)
Heating capacity (Nominal)	*2	kW	63.0
	*2	BTU / h	215,000
	Power input	kW	13.07
	Current input	A	22.0-20.9-20.2
	COP	kW / kW	4.82
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)
	Circulating water	°C	10.0~45.0°C (50~113°F)
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity
	Model / Quantity		WP10~WP125/2~50
Sound pressure level (measured in anechoic room)		dB <A>	54
Refrigerant piping diameter	High pressure	mm (in.)	22.2 (7/8) Brazed
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed
Circulating water	Water flow rate	m^3 / h	7.20
		L/min	120
		cfm	4.2
	Pressure drop	kPa	44
	Operating volume range	m^3 / h	4.5 ~ 11.6
Compressor	Type		Inverter scroll hermetic compressor
	Starting method		Inverter
	Motor output	kW	13.0
	Case heater	kW	–
External finish			Galvanized steel sheets
External dimension HxWxD		mm	1,450 x 880 x 550
		in.	57-1/8 x 34-11/16 x 21-11/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP.)		Over-heat protection, Over-current protection
	Compressor		Over-heat protection
Refrigerant	Type x original charge		R410A x 6.0 kg (14 lbs)
Net weight		kg (lbs)	217 (479)
Heat exchanger			plate type
	Water volume in plate	L	5.0
	Water pressure Max.	MPa	2.0
Optional parts			Main HBC controller: CMB-WP108, 1016V-GA1 Sub HBC controller: CMB-WP108, 1016V-GB1

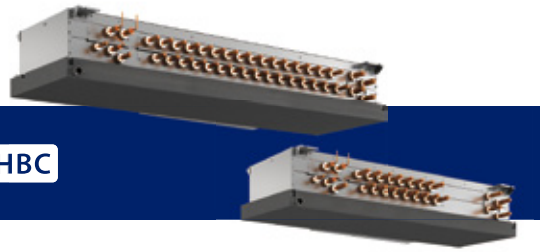
Notes:
1.Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Water temperature: 30°C (86°F)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
2.Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CD.B. (68°FD.B.), Water temperature: 20°C (68°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Unit converter

BTU / h =kW × 3,412
cfm =m^3 / min × 35.31
lbs =kg / 0.4536

*Above specification data is subject to rounding variation.

- HBC CONTROLLER - Main-HBC



Model			CMB-WP108V-GA1					CMB-WP1016V-GA1				
Number of branch			8					16				
Power source			1-phase 220-230-240 V					1-phase 220-230-240 V				
			50 Hz		60 Hz			50 Hz		60 Hz		
Power input (220/230/240)	Cooling	kW	0.45/0.46/0.47		0.45/0.46/0.47			0.45/0.46/0.47		0.45/0.46/0.47		
	Heating	kW	0.45/0.46/0.47		0.45/0.46/0.47			0.45/0.46/0.47		0.45/0.46/0.47		
Current input (220/230/240)	Cooling	A	2.89/2.83/2.79		2.89/2.83/2.79			2.89/2.83/2.79		2.89/2.83/2.79		
	Heating	A	2.89/2.83/2.79		2.89/2.83/2.79			2.89/2.83/2.79		2.89/2.83/2.79		
Sound pressure level (measured in anechoic room)		dB <A>	41					41				
Applicable temperature range of installation site		°C (D.B.)	0~32					0~32				
External finish			Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)					Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)				
Connectable Outdoor/Heat source unit			PURY-P200~500YLM-A(1)(-BS)/ PURY-EP200~500YLM-A1(-BS)/PQRY-P200~500YLM-A1					PURY-P200~500YLM-A(1)(-BS)/ PURY-EP200~500YLM-A1(-BS)/PQRY-P200~500YLM-A1				
Indoor unit capacity connectable to 1 branch			Model P80 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds P81)					Model P80 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds P81)				
External dimension HxWxD		mm	300 x 1,520 x 630					300 x 1,800 x 630				
		in.	11-13/16 x 59-7/8 x 24-13/16					11-13/16 x 70-7/8 x 24-13/16				
Refrigerant piping diameter	To Outdoor/Heat source unit		Connectable outdoor unit capacity					Connectable outdoor unit capacity				
			To P200	To P250/300	To P350	To P400 for each	To P450/500 for each	To P200	To P250/300	To P350	To P400 for each	To P450/500 for each
	High press. Pipe (O.D.)	mm (in.)	15.88 (5/8) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	15.88 (5/8) Brazed	19.05 (3/4) Brazed	15.88 (5/8) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	15.88 (5/8) Brazed	19.05 (3/4) Brazed
	Low press. Pipe (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
Water piping diameter	To Indoor unit											
	Inlet Pipe (I.D.)	mm (in.)	20 (3/4)					20 (3/4)				
	Outlet Pipe (I.D.)	mm (in.)	20 (3/4)					20 (3/4)				
Field drain pipe size		mm (in.)	O.D. 32 (1-1/4)					O.D. 32 (1-1/4)				
Net weight		kg (lbs)	86 (190) [96 (212) with water]					98 (217) [111 (245) with water]				
Standard attachment	Accessory		Drain Connection pipe (with flexible hose and insulation)					Drain Connection pipe (with flexible hose and insulation)				
Optional parts			–					–				

Notes:

1.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.
2.The equipment is for R410A refrigerant.
3.Install this product in a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors.
(For use in quiet environments with low background noise, position the HBC CONTROLLER at least 5m away from any indoor units.)
4.Please install the HBC controller in a place where noise will not be an issue.
5.Please attach an expansion vessel (field supply).
6.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.
7.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.
8.Please install an air purge valve where air will gather in the water circuit.
9.Please install a pressure reducing valve and a strainer on the water supply to the HBC controller.
10.Please refer to the databook or the installation manual for the specified water quality.
11.This unit is not designed for outside installations.
12.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.
13.Please do not use ground water and well water.
14.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).

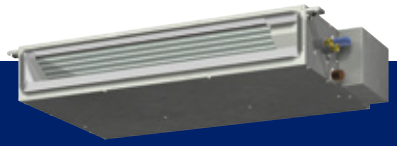
Sub-HBC

Model			CMB-WP108V-GB1		CMB-WP1016V-GB1	
Number of branch			8		16	
Power source			1-phase 220-230-240 V		1-phase 220-230-240 V	
			50 Hz	60 Hz	50 Hz	60 Hz
Power input (220/230/240)	Cooling	kW	0.01/0.01/0.01	0.01/0.01/0.01	0.01/0.01/0.01	0.01/0.01/0.01
	Heating	kW	0.01/0.01/0.01	0.01/0.01/0.01	0.01/0.01/0.01	0.01/0.01/0.01
Current input (220/230/240)	Cooling	A	0.05/0.05/0.05	0.05/0.05/0.05	0.05/0.05/0.05	0.05/0.05/0.05
	Heating	A	0.05/0.05/0.05	0.05/0.05/0.05	0.05/0.05/0.05	0.05/0.05/0.05
Sound pressure level (measured in anechoic room)		dB <A>	–		–	
Applicable temperature range of installation site		°C (D.B.)	0~32		0~32	
External finish			Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)		Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)	
Connectable Outdoor/Heat source unit			–		–	
Indoor unit capacity connectable to 1 branch			Model P80 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds P81)		Model P80 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds P81)	
External dimension HxWxD		mm	300 x 1,520 x 630		300 x 1,520 x 630	
		in.	11-13/16 x 59-7/8 x 24-13/16		11-13/16 x 70-7/8 x 24-13/16	
Water piping diameter	To Main HBC controller					
	Inlet Pipe (I.D.)	mm (in.)	20 (3/4)		20 (3/4)	
	Outlet Pipe (I.D.)	mm (in.)	20 (3/4)		20 (3/4)	
	To Indoor unit					
	Inlet Pipe (I.D.)	mm (in.)	20 (3/4)		20 (3/4)	
	Outlet Pipe (I.D.)	mm (in.)	20 (3/4)		20 (3/4)	
Field drain pipe size		mm (in.)	O.D. 32 (1-1/4)		O.D. 32 (1-1/4)	
Net weight		kg (lbs)	44 (98) [49 (109) with water]		53 (117) [62 (137) with water]	
Standard attachment	Accessory		Drain Connection pipe (with flexible hose and insulation)		Drain Connection pipe (with flexible hose and insulation)	
Optional parts			–		–	

Notes:

1. 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.
2. The equipment is for water.
3. Install this product in a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors.
   (For use in quiet environments with low background noise, position the Sub HBC CONTROLLER at least 5m away from any indoor units.)
4. Please install the Sub HBC controller in a place where noise will not be an issue.
5. Please attach an expansion vessel (field supply).
6. 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.
7. 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.
8. Please install an air purge valve where air will gather in the water circuit.
9. Please refer to the databook or the installation manual for the specified water quality.
10. This unit is not designed for outside installations.
11. 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.
12. Please do not use ground water and well water.
13. 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).
14. Can't use singleness. (MAIN HBC CONTROLLER is necessary.)

- INDOOR UNIT -



Model			NEW PEFY-WP10VMS1-E	PEFY-WP15VMS1-E
Power source			1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz
Cooling capacity *1		kW	1.2	1.7
(Nominal) *1		kcal/h	1,000	1,500
*1		BTU/h	4,100	5,800
*2	Power input	kW	0.030	0.050
*2	Current input	A	0.21	0.44
Heating capacity *3		kW	1.4	1.9
(Nominal) *3		kcal/h	1,200	1,600
*3		BTU/h	4,800	6,500
*2	Power input	kW	0.030	0.030
*2	Current input	A	0.21	0.33
External finish			Galvanized steel plate	Galvanized steel plate
External dimension H x W x D		mm	200 x 790 x 700	200 x 790 x 700
		in.	7-7/8 x 31-1/8 x 27-9/16	7-7/8 x 31-1/8 x 27-9/16
Net weight		kg (lbs)	19 (42)	19 (42)
Heat exchanger			Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)
	Water Volume	L	0.4	0.7
FAN	Type x Quantity		Sirocco fan x 2	Sirocco fan x 2
*4	External static press.	Pa	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>
		mmH_2O	<0.5> - 1.5 - <3.6> - <5.1>	<0.5> - 1.5 - <3.6> - <5.1>
	Motor Type		DC motor	DC motor
	Motor output	kW	0.096	0.096
	Driving mechanism		Direct-driven by motor	Direct-driven by motor
	Air flow rate		(Low-Mid-High)	(Low-Mid-High)
		m^3/min	4.0 - 4.5 - 5.0	5.0 - 6.0 - 7.0
		L/s	67 - 75 - 83	83 - 100 - 117
		cfm	141 - 159 - 177	177 - 212 - 247
Sound pressure level (measured in anechoic room) *2		dB <A>	(Low-Mid-High) 20-23-25	(Low-Mid-High) 22-24-28
Insulation material			EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam
Air filter			PP honeycomb fabric.	PP honeycomb fabric.
Protection device			Fuse	Fuse
Connectable outdoor unit / HBC controller			HYBRID CITY MULTI/CMB-WP-V-GA1, CMB-WP-V-GB1	HYBRID CITY MULTI/CMB-WP-V-GA1, CMB-WP-V-GB1
Water piping diameter *5,6	Inlet	in.	Rc 3/4 screw	Rc 3/4 screw
	Outlet	in.	Rc 3/4 screw	Rc 3/4 screw
Field drain pipe size		mm (in.)	O.D.32 (1-1/4)	O.D.32 (1-1/4)
Standard attachment	Accessory		Insulation pipe for water pipe, Washer, Drain hose, Tie band	Insulation pipe for water pipe, Washer, Drain hose, Tie band
Optional parts	Control Box Replace kit		PAC-KE70HS-E	PAC-KE70HS-E

Notes :

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

2.The values are measured at the factory setting of external static pressure.

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

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

5.Be sure to install a valve on the water outlet.

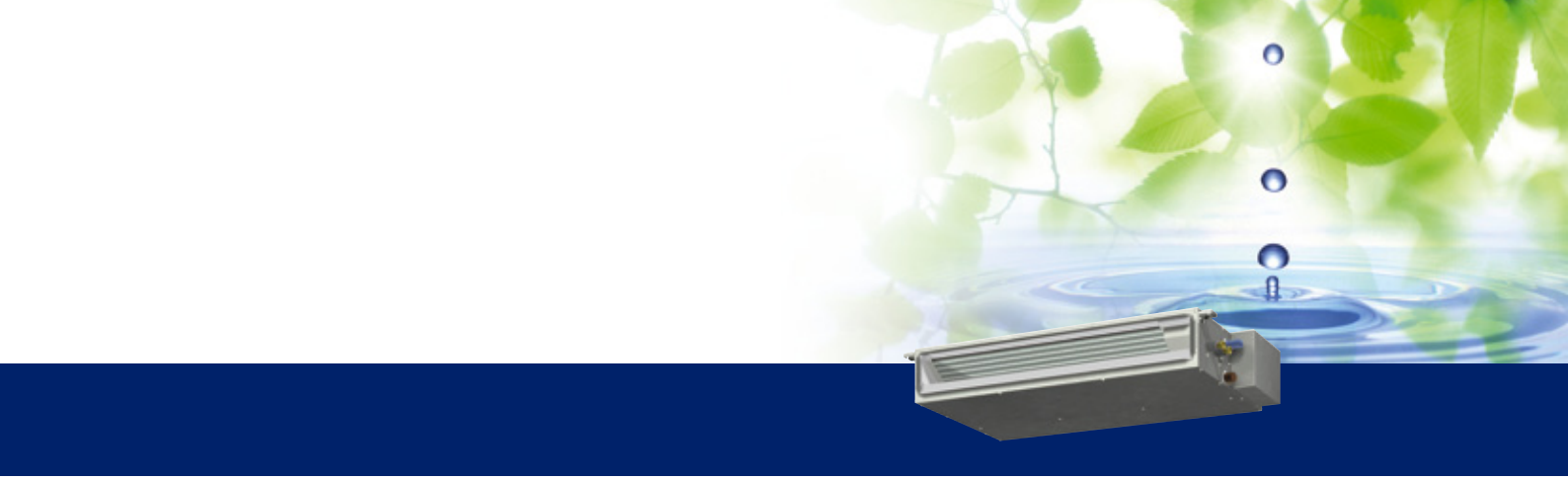
6.Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.

7.Please group units that operate on 1 branch.

Unit converter

kcal / h =kW × 860
BTU / h =kW × 3,412
cfm =m^3 / min × 35.31
lbs =kg / 0.4536

*Above specification data is subject to rounding variation.



Model				PEFY-WP20VMS1-E	PEFY-WP25VMS1-E
Power source				1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz
Cooling capacity (Nominal)		*1	kW	2.2	2.8
		*1	kcal/h	1,900	2,400
		*1	BTU/h	7,500	9,600
	*2	Power input	kW	0.051	0.060
	*2	Current input	A	0.49	0.51
Heating capacity (Nominal)		*3	kW	2.5	3.2
		*3	kcal/h	2,200	2,800
		*3	BTU/h	8,500	10,900
	*2	Power input	kW	0.031	0.040
	*2	Current input	A	0.38	0.40
External finish				Galvanized steel plate	Galvanized steel plate
External dimension H x W x D			mm	200 x 790 x 700	200 x 790 x 700
			in.	7-7/8 x 31-1/8 x 27-9/16	7-7/8 x 31-1/8 x 27-9/16
Net weight			kg (lbs)	20 (45)	20 (45)
Heat exchanger				Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)
		Water Volume	L	0.9	0.9
FAN		Type x Quantity		Sirocco fan x 2	Sirocco fan x 2
	*4	External static press.	Pa	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>
			mmH_2O	<0.5> - 1.5 - <3.6> - <5.1>	<0.5> - 1.5 - <3.6> - <5.1>
		Motor Type		DC motor	DC motor
		Motor output	kW	0.096	0.096
		Driving mechanism		Direct-driven by motor	Direct-driven by motor
		Air flow rate		(Low-Mid-High)	(Low-Mid-High)
			m^3/min	5.5 - 6.5 - 8.0	5.5 - 7.0 - 9.0
			L/s	92 - 108 - 133	92 - 117 - 150
			cfm	194 - 230 - 282	194 - 247 - 318
Sound pressure level (measured in anechoic room)		*2	dB <A>	(Low-Mid-High)	(Low-Mid-High)
				23-25-29	23-26-30
Insulation material				EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam
Air filter				PP honeycomb fabric.	PP honeycomb fabric.
Protection device				Fuse	Fuse
Connectable outdoor unit / HBC controller				HYBRID CITY MULTI/CMB-WP-V-GA1, CMB-WP-V-GB1	HYBRID CITY MULTI/CMB-WP-V-GA1, CMB-WP-V-GB1
Water piping diameter	*5,6	Inlet	in.	Rc 3/4 screw	Rc 3/4 screw
	*5,6	Outlet	in.	Rc 3/4 screw	Rc 3/4 screw
Field drain pipe size			mm (in.)	O.D.32 (1-1/4)	O.D.32 (1-1/4)
Standard attachment		Accessory		Insulation pipe for water pipe, Washer, Drain hose, Tie band	Insulation pipe for water pipe, Washer, Drain hose, Tie band
Optional parts		Control Box Replace kit		PAC-KE70HS-E	PAC-KE70HS-E

Notes :

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

2.The values are measured at the factory setting of external static pressure.

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

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

5.Be sure to install a valve on the water outlet.

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

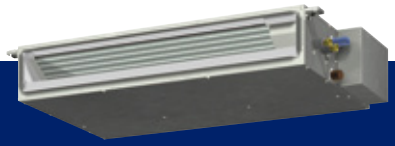
7.Please group units that operate on 1 branch.

Unit converter

kcal / h =kW × 860
BTU / h =kW × 3,412
cfm =m^3 / min × 35.31
lbs =kg / 0.4536

*Above specification data is subject to rounding variation.

- INDOOR UNIT -



Model				PEFY-WP32VMS1-E	PEFY-WP40VMS1-E	PEFY-WP50VMS1-E
Power source				1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz
Cooling capacity (Nominal)		*1	kW	3.6	4.5	5.6
		*1	kcal/h	3,100	3,900	4,800
		*1	BTU/h	12,300	15,400	19,100
	*2	Power input	kW	0.071	0.090	0.090
	*2	Current input	A	0.61	0.73	0.77
Heating capacity (Nominal)		*3	kW	4.0	5.0	6.3
		*3	kcal/h	3,400	4,300	5,400
		*3	BTU/h	13,600	17,100	21,500
	*2	Power input	kW	0.051	0.070	0.070
	*2	Current input	A	0.50	0.62	0.66
External finish				Galvanized steel plate	Galvanized steel plate	Galvanized steel plate
External dimension H x W x D			mm	200 x 990 x 700	200 x 990 x 700	200 x 1,190 x 700
			in.	7-7/8 x 39 x 27-9/16	7-7/8 x 39 x 27-9/16	7-7/8 x 46-7/8 x 27-9/16
Net weight			kg (lbs)	25 (56)	25 (56)	27 (60)
Heat exchanger				Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)
	Water Volume		L	1.0	1.0	1.7
FAN	Type x Quantity			Sirocco fan x 3	Sirocco fan x 3	Sirocco fan x 4
*4	External static press.		Pa	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>
			mmH_2O	<0.5> - 1.5 - <3.6> - <5.1>	<0.5> - 1.5 - <3.6> - <5.1>	<0.5> - 1.5 - <3.6> - <5.1>
	Motor Type			DC motor	DC motor	DC motor
	Motor output		kW	0.096	0.096	0.096
	Driving mechanism			Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
	Air flow rate			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
			m^3/min	8.0 - 9.0 - 11.0	9.5 - 11.0 - 13.0	12.0 - 14.0 - 16.5
			L/s	133 - 150 - 183	158 - 183 - 217	200 - 233 - 275
			cfm	282 - 318 - 388	335 - 388 - 459	424 - 494 - 583
Sound pressure level (measured in anechoic room)		*2	dB <A>	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
				28-30-33	30-32-35	30-33-36
Insulation material				EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam
Air filter				PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.
Protection device				Fuse	Fuse	Fuse
Connectable outdoor unit / HBC controller				HYBRID CITY MULTI/ CMB-WP-V-GA1, CMB-WP-V-GB1	HYBRID CITY MULTI/ CMB-WP-V-GA1, CMB-WP-V-GB1	HYBRID CITY MULTI/ CMB-WP-V-GA1, CMB-WP-V-GB1
Water piping diameter	Inlet	*5,6	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw
	Outlet		in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw
Field drain pipe size			mm (in.)	O.D.32 (1-1/4)	O.D.32 (1-1/4)	O.D.32 (1-1/4)
Standard attachment	Accessory			Insulation pipe for water pipe, Washer, Drain hose, Tie band	Insulation pipe for water pipe, Washer, Drain hose, Tie band	Insulation pipe for water pipe, Washer, Drain hose, Tie band
Optional parts	Control Box Replace kit			PAC-KE70HS-E	PAC-KE70HS-E	PAC-KE70HS-E

Notes :

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

2.The values are measured at the factory setting of external static pressure.

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

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

5.Be sure to install a valve on the water outlet.

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

7.Please group units that operate on 1 branch.

Unit converter

kcal / h =kW × 860
BTU / h =kW × 3,412
cfm =m^3 / min × 35.31
lbs =kg / 0.4536

*Above specification data is subject to rounding variation.

Model				PEFY-WP20VMA-E	PEFY-WP25VMA-E
Power source				1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz
Cooling capacity (Nominal)		*1	kW	2.2	2.8
		*1	kcal / h	1,900	2,400
		*1	BTU / h	7,500	9,600
	*2	Power input	kW	0.07	0.09
	*2	Current input	A	0.55	0.64
Heating capacity (Nominal)		*3	kW	2.5	3.2
		*3	kcal / h	2,200	2,800
		*3	BTU / h	8,500	10,900
	*2	Power input	kW	0.05	0.07
	*2	Current input	A	0.44	0.53
External finish				Galvanized steel plate	Galvanized steel plate
External dimension H x W x D			mm	250 x 700 x 732	250 x 900 x 732
			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 exchanger				Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)
	Water Volume		L	0.7	1.0
FAN	Type x Quantity			Sirocco fan x 1	Sirocco fan x 1
*4	External static press.		Pa	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>
			mmH_2O	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>
	Motor Type			DC motor	DC motor
	Motor output		kW	0.085	0.085
	Driving mechanism			Direct-driven by motor	Direct-driven by motor
	Air flow rate			(Low-Mid-High)	(Low-Mid-High)
			m^3/min	7.5 - 9.0 - 10.5	10.0 - 12.0 - 14.0
			L/s	125 - 150 - 175	167 - 200 - 233
			cfm	265 - 318 - 371	353 - 424 - 494
Sound pressure level (measured in anechoic room)		*2	dB <A>	(Low-Mid-High)	(Low-Mid-High)
				23-26-29	23-27-30
Insulation material				EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam
Air filter				PP honeycomb fabric.	PP honeycomb fabric.
Protection devices				Fuse	Fuse
Connectable outdoor unit / HBC controller				HYBRID CITY MULTI/CMB-WP-V-GA1, CMB-WP-V-GB1	HYBRID CITY MULTI/CMB-WP-V-GA1, CMB-WP-V-GB1
Water piping diameter	Inlet	*5, 6	in.	Rc 3/4 screw	Rc 3/4 screw
	Outlet		in.	Rc 3/4 screw	Rc 3/4 screw
Field drain pipe size			mm (in.)	O.D.32 (1-1/4)	O.D.32 (1-1/4)
Standard attachment	Accessory			Insulation pipe for water pipe, Washer, Drain hose, Tie band	Insulation pipe for water pipe, Washer, Drain hose, Tie band
Optional parts	Filter box			PAC-KE91TB-E	PAC-KE92TB-E

Notes:
1. Nominal cooling conditions
   Indoor: 27 °CD.B./19 °CW.B. (81 °FD.B./66 °FW.B.), Outdoor: 35 °CD.B. (95 °FD.B.)
   Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
2. The values are measured at the factory setting of external static pressure.
3. Nominal heating conditions
   Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)
   Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
4. The factory setting of external static pressure is shown without < >.
   Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.
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. Group units that operate on 1 branch.

Unit converter

kcal / h =kW × 860
BTU / h =kW × 3,412
cfm =m^3 / min × 35.31
lbs =kg / 0.4536

* Above specification data is subject to rounding variation.

- INDOOR UNIT -

Model				PEFY-WP32VMA-E	PEFY-WP40VMA-E	PEFY-WP50VMA-E
Power source				1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz
Cooling capacity (Nominal)		*1	kW	3.6	4.5	5.6
		*1	kcal / h	3,100	3,900	4,800
		*1	BTU / h	12,300	15,400	19,100
	*2	Power input	kW	0.11	0.14	0.14
	*2	Current input	A	0.74	1.15	1.15
Heating capacity (Nominal)		*3	kW	4.0	5.0	6.3
		*3	kcal / h	3,400	4,300	5,400
		*3	BTU / h	13,600	17,100	21,500
	*2	Power input	kW	0.09	0.12	0.12
	*2	Current input	A	0.63	1.04	1.04
External finish				Galvanized steel plate	Galvanized steel plate	Galvanized steel plate
External dimension H x W x D			mm	250 x 900 x 732	250 x 1,100 x 732	250 x 1,100 x 732
			in.	9-7/8 x 35-7/16 x 28-7/8	9-7/8 x 43-5/16 x 28-7/8	9-7/8 x 43-5/16 x 28-7/8
Net weight			kg (lbs)	26 (58)	31 (69)	31 (69)
Heat exchanger				Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)
	Water Volume		L	1.0	1.8	1.8
FAN	Type x Quantity			Sirocco fan x 1	Sirocco fan x 2	Sirocco fan x 2
*4	External static press.		Pa	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>
			mmH_2O	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>
	Motor Type			DC motor	DC motor	DC motor
	Motor output		kW	0.085	0.121	0.121
	Driving mechanism			Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
	Air flow rate			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
			m^3/min	12.0 - 14.5 - 17.0	14.5 - 18.0 - 21.0	14.5 - 18.0 - 21.0
			L/s	200 - 242 - 283	242 - 300 - 350	242 - 300 - 350
			cfm	424 - 512 - 600	512 - 636 - 742	512 - 636 - 742
Sound pressure level (measured in anechoic room)		*2	dB <A>	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
				25-29-32	26-29-34	26-29-34
Insulation material				EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam
Air filter				PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.
Protection devices				Fuse	Fuse	Fuse
Connectable outdoor unit / HBC controller				HYBRID CITY MULTI/ CMB-WP-V-GA1, CMB-WP-V-GB1	HYBRID CITY MULTI/ CMB-WP-V-GA1, CMB-WP-V-GB1	HYBRID CITY MULTI/ CMB-WP-V-GA1, CMB-WP-V-GB1
Water piping diameter	Inlet	*5, 6	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw
	Outlet		in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw
Field drain pipe size			mm (in.)	O.D.32 (1-1/4)	O.D.32 (1-1/4)	O.D.32 (1-1/4)
Standard attachment	Accessory			Insulation pipe for water pipe, Washer, Drain hose, Tie band	Insulation pipe for water pipe, Washer, Drain hose, Tie band	Insulation pipe for water pipe, Washer, Drain hose, Tie band
Optional parts	Filter box			PAC-KE92TB-E	PAC-KE93TB-E	PAC-KE93TB-E

Notes:
1. Nominal cooling conditions
   Indoor: 27 °CD.B./19 °CW.B. (81 °FD.B./66 °FW.B.), Outdoor: 35 °CD.B. (95 °FD.B.)
   Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
2. The values are measured at the factory setting of external static pressure.
3. Nominal heating conditions
   Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)
   Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
4. The factory setting of external static pressure is shown without < >.
   Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.
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. Group units that operate on 1 branch.

Unit converter

kcal / h =kW × 860
BTU / h =kW × 3,412
cfm =m^3 / min × 35.31
lbs =kg / 0.4536

* Above specification data is subject to rounding variation.

Model			NEW PEFY-WP63VMA-E	NEW PEFY-WP71VMA-E	NEW PEFY-WP80VMA-E
Power source			1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz
Cooling capacity	*1	kW	7.1	8.0	9.0
(Nominal)	*1	kcal/h	6,100	6,900	7,700
	*1	BTU/h	24,200	27,300	30,700
*2	Power input	kW	0.14	0.24	0.24
*2	Current input	A	1.15	1.47	1.47
Heating capacity	*3	kW	8.0	9.0	10.0
(Nominal)	*3	kcal/h	6,900	7,700	8,600
	*3	BTU/h	27,300	30,700	34,100
*2	Power input	kW	0.12	0.22	0.22
*2	Current input	A	1.04	1.36	1.36
External finish			Galvanized steel plate	Galvanized steel plate	Galvanized steel plate
External dimension H x W x D		mm	250 x 1,100 x 732	250 x 1,400 x 732	250 x 1,400 x 732
		in.	9-7/8 x 43-5/16 x 28-7/8	9-7/8 x 55-1/8 x 28-7/8	9-7/8 x 55-1/8 x 28-7/8
Net weight		kg (lbs)	31 (69)	40 (89)	40 (89)
Heat exchanger			Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)
	Water Volume	L	2.0	2.6	2.6
FAN	Type x Quantity		Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2
*4	External static press.	Pa	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>
		mmH_2O	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>
	Motor Type		DC motor	DC motor	DC motor
	Motor output	kW	0.121	0.244	0.244
	Driving mechanism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
	Air flow rate		(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
		m^3/min	14.5 - 18.0 - 21.0	23.0 - 28.0 - 33.0	23.0 - 28.0 - 33.0
		L/s	242 - 300 - 350	383 - 467 - 550	383 - 467 - 550
		cfm	512 - 636 - 742	812 - 989 - 1,165	812 - 989 - 1,165
Sound pressure level (measured in anechoic room)	*2	dB <A>	(Low-Mid-High) 26-29-34	(Low-Mid-High) 28-33-37	(Low-Mid-High) 28-33-37
Insulation material			EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam
Air filter			PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.
Protection device			Fuse	Fuse	Fuse
Connectable outdoor unit / HBC controller			HYBRID CITY MULTI/ CMB-WP-V-GA1, CMB-WP-V-GB1	HYBRID CITY MULTI/ CMB-WP-V-GA1, CMB-WP-V-GB1	HYBRID CITY MULTI/ CMB-WP-V-GA1, CMB-WP-V-GB1
Water piping diameter	Inlet	in.	Rc 1-1/4 screw	Rc 1-1/4 screw	Rc 1-1/4 screw
*5,6	Outlet	in.	Rc 1-1/4 screw	Rc 1-1/4 screw	Rc 1-1/4 screw
Field drain pipe size		mm (in.)	O.D.32 (1-1/4)	O.D.32 (1-1/4)	O.D.32 (1-1/4)
Standard attachment	Accessory		Insulation pipe for water pipe, Washer, Drain hose, Tie band	Insulation pipe for water pipe, Washer, Drain hose, Tie band	Insulation pipe for water pipe, Washer, Drain hose, Tie band
Optional parts	Filter box		PAC-KE93TB-E	PAC-KE94TB-E	PAC-KE94TB-E

Notes :

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

2.The values are measured at the factory setting of external static pressure.

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

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

5.Be sure to install a valve on the water outlet.

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

7.Please group units that operate on 1 branch.

Unit converter

kcal / h =kW × 860
BTU / h =kW × 3,412
cfm =m^3 / min × 35.31
lbs =kg / 0.4536

*Above specification data is subject to rounding variation.

- INDOOR UNIT -

Model			NEW PEFY-WP100VMA-E	NEW PEFY-WP125VMA-E
Power source			1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz
Cooling capacity *1		kW	11.2	14.0
(Nominal) *1		kcal/h	9,600	12,000
*1		BTU/h	38,200	47,800
*2	Power input	kW	0.24	0.36
*2	Current input	A	1.47	2.21
Heating capacity *3		kW	12.5	16.0
(Nominal) *3		kcal/h	10,800	13,800
*3		BTU/h	42,700	54,600
*2	Power input	kW	0.22	0.34
*2	Current input	A	1.36	2.10
External finish			Galvanized steel plate	Galvanized steel plate
External dimension H x W x D		mm	250 x 1,400 x 732	250 x 1,600 x 732
		in.	9-7/8 x 55-1/8 x 28-7/8	9-7/8 x 63 x 28-7/8
Net weight		kg (lbs)	40 (89)	42 (93)
Heat exchanger			Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)
	Water Volume	L	2.6	3.0
FAN	Type x Quantity		Sirocco fan x 2	Sirocco fan x 2
*4	External static press.	Pa	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>
		mmH_2O	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>
	Motor Type		DC motor	DC motor
	Motor output	kW	0.244	0.244
	Driving mechanism		Direct-driven by motor	Direct-driven by motor
	Air flow rate		(Low-Mid-High)	(Low-Mid-High)
		m^3/min	23.0 - 28.0 - 33.0	29.5 - 35.5 - 42.0
		L/s	383 - 467 - 550	492 - 592 - 700
		cfm	812 - 989 - 1,165	1,042 - 1,254 - 1,483
Sound pressure level (measured in anechoic room) *2		dB <A>	(Low-Mid-High)	(Low-Mid-High)
			28-33-37	32-36-40
Insulation material			EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam
Air filter			PP honeycomb fabric.	PP honeycomb fabric.
Protection device			Fuse	Fuse
Connectable outdoor unit / HBC controller			HYBRID CITY MULTI/CMB-WP-V-GA1, CMB-WP-V-GB1	HYBRID CITY MULTI/CMB-WP-V-GA1, CMB-WP-V-GB1
Water piping diameter *5,6	Inlet	in.	Rc 1-1/4 screw	Rc 1-1/4 screw
	Outlet	in.	Rc 1-1/4 screw	Rc 1-1/4 screw
Field drain pipe size		mm (in.)	O.D.32 (1-1/4)	O.D.32 (1-1/4)
Standard attachment	Accessory		Insulation pipe for water pipe, Washer, Drain hose, Tie band	Insulation pipe for water pipe, Washer, Drain hose, Tie band
Optional parts	Filter box		PAC-KE94TB-E	PAC-KE95TB-E

Notes :

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

2.The values are measured at the factory setting of external static pressure.

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

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

5.Be sure to install a valve on the water outlet.

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

7.Please group units that operate on 1 branch.

Unit converter

kcal / h =kW × 860
BTU / h =kW × 3,412
cfm =m^3 / min × 35.31
lbs =kg / 0.4536

*Above specification data is subject to rounding variation.

Model			PLFY-WP32VBM-E	PLFY-WP40VBM-E	PLFY-WP50VBM-E
Power source			1-phase 220-230-240 V 50/60Hz	1-phase 220-230-240 V 50/60Hz	1-phase 220-230-240 V 50/60Hz
Cooling capacity	*1	kW	3.6	4.5	5.6
	*1	kcal/h	3,100	3,900	4,800
	*1	BTU/h	12,300	15,400	19,100
	Power input	kW	0.04	0.04	0.05
	Current input	A	0.35	0.35	0.45
Heating capacity	*2	kW	4.0	5.0	6.3
	*2	kcal/h	3,400	4,300	5,400
	*2	BTU/h	13,600	17,100	21,500
	Power input	kW	0.03	0.03	0.04
	Current input	A	0.28	0.28	0.38
External finish			Galvanized steel sheet	Galvanized steel sheet	Galvanized steel sheet
External dimension H x W x D		mm	258 x 840 x 840	258 x 840 x 840	258 x 840 x 840
		in.	10-3/16 x 33-3/32 x 33-3/32	10-3/16 x 33-3/32 x 33-3/32	10-3/16 x 33-3/32 x 33-3/32
Net weight		kg (lbs)	22(49)	22(49)	22(49)
Heat exchanger			Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)
	Water Volume	L	1.5	1.5	1.5
FAN	Type x Quantity		Turbo Fan × 1	Turbo Fan × 1	Turbo Fan × 1
	External static press	Pa	0	0	0
	Motor Type		DC motor	DC motor	DC motor
	Motor output	kW	0.05	0.05	0.05
	Driving mechanism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
	Air flow rate		(Low-Mid1-Mid2-High)	(Low-Mid1-Mid2-High)	(Low-Mid1-Mid2-High)
		m³/min	13 - 14 - 15 - 16	13 - 14 - 15 - 16	13 - 15 - 17 - 19
		L/s	217 - 233 - 250 - 267	217 - 233 - 250 - 267	217 - 250 - 283 - 317
		cfm	459 - 494 - 530 - 565	459 - 494 - 530 - 565	459 - 530 - 601 - 671
Sound pressure level			(Low-Mid1-Mid2-High)	(Low-Mid1-Mid2-High)	(Low-Mid1-Mid2-High)
		dB <A>	27 - 29 - 30 - 31	27 - 29 - 30 - 31	27 - 30 - 32 - 34
Insulation material			PS	PS	PS
Air filter			PP honeycomb	PP honeycomb	PP honeycomb
Protection device			Fuse	Fuse	Fuse
Refrigerant control device			–	–	–
Connectable Outdoor unit/HBC controller			HYBRID CITY MULTI/CMB-WP-V-GA1, CMB-WP-V-GB1		
Water piping diameter *3,4	Inlet	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw
	Outlet	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw
Field drain pipe size		mm (in.)	O.D.32 (1-1/4)	O.D.32 (1-1/4)	O.D.32 (1-1/4)
Optional parts	Decoration panel *5		PLP-6BA	PLP-6BA	PLP-6BA
	Automatic filter elevation panel *5		PLP-6BAJ	PLP-6BAJ	PLP-6BAJ
	Space panel		PAC-SH48AS-E	PAC-SH48AS-E	PAC-SH48AS-E
	Air outlet shutter plate		PAC-SH51SP-E	PAC-SH51SP-E	PAC-SH51SP-E
	High efficiency filter element *6		PAC-SH59KF-E	PAC-SH59KF-E	PAC-SH59KF-E
	Multi-function casement		PAC-SH53TM-E	PAC-SH53TM-E	PAC-SH53TM-E
	i-see sensor corner panel		PAC-SA1ME-E	PAC-SA1ME-E	PAC-SA1ME-E
	Flange for fresh air intake		PAC-SH65OF-E	PAC-SH65OF-E	PAC-SH65OF-E
	Wireless signal receiver		PAR-SF9FA-E	PAR-SF9FA-E	PAR-SF9FA-E

Notes :
1.Nominal cooling conditions
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Outdoor: 35°CD.B. (95°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
2.Nominal heating conditions
Indoor: 20°CD.B. (68°FD.B.), Outdoor: 7°CD.B./6°CW.B. (45°FD.B./43°FW.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
3.Be sure to install a valve on the water outlet.
4.Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.
5.PLFY-WP-VBM-E should use together with PLP-6BA(J).
6.PAC-SH53TM-E is necessary to use with filter PAC-SH59KF-E.
7.Please group units that operate on 1 branch.

Unit converter

kcal / h =kW × 860
BTU / h =kW × 3,412
cfm =m³ / min × 35.31
lbs =kg / 0.4536

*Above specification data is subject to rounding variation.

- INDOOR UNIT -

Model				PFFY-WP20VLRMM-E	PFFY-WP25VLRMM-E	PFFY-WP32VLRMM-E
Power source				1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz
Cooling capacity (Nominal)		*1	kW	2.2	2.8	3.6
		*1	kcal/h	1,900	2,400	3,100
		*1	BTU/h	7,500	9,600	12,300
	*2	Power input	kW	0.040	0.040	0.050
	*2	Current input	A	0.35	0.35	0.47
Heating capacity (Nominal)		*3	kW	2.5	3.2	4.0
		*3	kcal/h	2,200	2,800	3,400
		*3	BTU/h	8,500	10,900	13,600
	*2	Power input	kW	0.040	0.040	0.050
	*2	Current input	A	0.35	0.35	0.47
External finish				Galvanized steel plate	Galvanized steel plate	Galvanized steel plate
External dimension H x W x D			mm	639 x 886 x 220	639 x 1,006 x 220	639 x 1,006 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	25-3/16 x 39-5/8 x 8-11/16
Net weight			kg (lbs)	22 (49)	25 (56)	25 (56)
Heat exchanger				Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)
		Water Volume	L	0.9	1.3	1.3
FAN		Type x Quantity		Sirocco fan x 1	Sirocco fan x 2	Sirocco fan x 2
	*4	External static press.	Pa	20 - <40> - <60>	20 - <40> - <60>	20 - <40> - <60>
			mmH_2O	2.0 - <4.1> - <6.1>	2.0 - <4.1> - <6.1>	2.0 - <4.1> - <6.1>
		Motor Type		DC motor	DC motor	DC motor
		Motor output	kW	0.096	0.096	0.096
		Driving mechanism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
		Air flow rate		(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
			m^3/min	4.5 - 5.0 - 6.0	6.0 - 7.0 - 8.0	7.5 - 9.0 - 10.5
			L/s	75 - 83 - 100	100 - 117 - 133	125 - 150 - 175
			cfm	159 - 177 - 212	212 - 247 - 282	265 - 318 - 371
Sound pressure level (measured in anechoic room)		*2	dB <A>	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
				31-33-38	31-33-38	31-35-38
Insulation material				Polyethylene foam, Urethane foam	Polyethylene foam, Urethane foam	Polyethylene foam, Urethane foam
Air filter				PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.
Protection device				Fuse	Fuse	Fuse
Connectable outdoor unit/HBC controller				HYBRID CITY MULTI/ CMB-WP-V-GA1, CMB-WP-V-GB1	HYBRID CITY MULTI/ CMB-WP-V-GA1, CMB-WP-V-GB1	HYBRID CITY MULTI/ CMB-WP-V-GA1, CMB-WP-V-GB1
Water piping diameter	*5,6	Inlet	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw
		Outlet	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw
Field drain pipe size			mm (in.)	I.D.26 (1) <Accessory hose O.D.27 (1-3/32) (top end: O.D.20 (13/16))>	I.D.26 (1) <Accessory hose O.D.27 (1-3/32) (top end: O.D.20 (13/16))>	I.D.26 (1) <Accessory hose O.D.27 (1-3/32) (top end: O.D.20 (13/16))>
Standard attachment		Accessory		Insulation pipe for water pipe, Drain hose (flexible joint), Screw plate, Level adjusting screw, Hose band	Insulation pipe for water pipe, Drain hose (flexible joint), Screw plate, Level adjusting screw, Hose band	Insulation pipe for water pipe, Drain hose (flexible joint), Screw plate, Level adjusting screw, Hose band

Notes :

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

2.The values are measured at the factory setting of external static pressure.

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

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

5.Be sure to install a valve on the water outlet.

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

7.Please group units that operate on 1 branch.

Unit converter

kcal / h =kW × 860
BTU / h =kW × 3,412
cfm =m^3 / min × 35.31
lbs =kg / 0.4536

*Above specification data is subject to rounding variation.

Model				PFFY-WP40VLRMM-E	PFFY-WP50VLRMM-E
Power source				1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz
Cooling capacity (Nominal)		*1	kW	4.5	5.6
		*1	kcal/h	3,900	4,800
		*1	BTU/h	15,400	19,100
	*2	Power input	kW	0.050	0.070
	*2	Current input	A	0.47	0.65
Heating capacity (Nominal)		*3	kW	5.0	6.3
		*3	kcal/h	4,300	5,400
		*3	BTU/h	17,100	21,500
	*2	Power input	kW	0.050	0.070
	*2	Current input	A	0.47	0.65
External finish				Galvanized steel plate	Galvanized steel plate
External dimension H x W x D			mm	639 x 1,246 x 220	639 x 1,246 x 220
			in.	25-3/16 x 49-1/16 x 8-11/16	25-3/16 x 49-1/16 x 8-11/16
Net weight			kg (lbs)	29 (64)	29 (64)
Heat exchanger				Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)
		Water Volume	L	1.5	1.5
FAN		Type x Quantity		Sirocco fan x 2	Sirocco fan x 2
	*4	External static press.	Pa	20 - <40> - <60>	20 - <40> - <60>
			mmH_2O	2.0 - <4.1> - <6.1>	2.0 - <4.1> - <6.1>
		Motor Type		DC motor	DC motor
		Motor output	kW	0.096	0.096
		Driving mechanism		Direct-driven by motor	Direct-driven by motor
		Air flow rate		(Low-Mid-High)	(Low-Mid-High)
			m^3/min	8.0 - 10.0 - 11.5	10.5 - 13.0 - 15.0
			L/s	133 - 167 - 192	175 - 217 - 250
			cfm	282 - 353 - 406	371 - 459 - 530
Sound pressure level (measured in anechoic room)		*2	dB <A>	(Low-Mid-High) 34-37-40	(Low-Mid-High) 37-42-45
Insulation material				Polyethylene foam, Urethane foam	Polyethylene foam, Urethane foam
Air filter				PP honeycomb fabric.	PP honeycomb fabric.
Protection device				Fuse	Fuse
Connectable outdoor unit/HBC controller				HYBRID CITY MULTI/CMB-WP-V-GA1, CMB-WP-V-GB1	HYBRID CITY MULTI/CMB-WP-V-GA1, CMB-WP-V-GB1
Water piping diameter		Inlet	in.	Rc 3/4 screw	Rc 3/4 screw
	*5,6	Outlet	in.	Rc 3/4 screw	Rc 3/4 screw
Field drain pipe size			mm (in.)	I.D.26 (1) <Accessory hose O.D.27 (1-3/32) (top end: O.D.20 (13/16))>	I.D.26 (1) <Accessory hose O.D.27 (1-3/32) (top end: O.D.20 (13/16))>
Standard attachment		Accessory		Insulation pipe for water pipe, Drain hose (flexible joint), Screw plate, Level adjusting screw, Hose band	Insulation pipe for water pipe, Drain hose (flexible joint), Screw plate, Level adjusting screw, Hose band

Notes :
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Indoor: 20°CD.B. (68°FD.B.), Outdoor: 7°CD.B./6°CW.B. (45°FD.B./43°FW.B.)
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Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.
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for a greener tomorrow

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

The Air Conditioning & Refrigeration Systems Works acquired ISO 9001 certification under Series 9000 of the International Standard Organization (ISO) based on a review of Quality management for the production of refrigeration and air conditioning equipment.

ISO Authorization System
The ISO 9000 series is a plant authorization system relating to quality management as stipulated by the ISO. ISO 9001 certifies quality management based on the "design, development, production, installation and auxiliary services" for products built at an authorized plant.

FM33568 / ISO 9001;2008

The Air Conditioning & Refrigeration Systems Works acquired environmental management system standard ISO 14001 certification.

The ISO 14000 series is a set of standards applying to environmental protection set by the International Standard Organization (ISO).
Registered on March 10, 1998.

EC97J1227 051

⚠Warning

■Do not use refrigerant other than the type indicated in the manuals provided with the unit and on the nameplate.
- Doing so may cause the unit or pipes to burst, or result in explosion or fire during use, during repair, or at the time of disposal of the unit.
- It may also be in violation of applicable laws.
- MITSUBISHI ELECTRIC CORPORATION cannot be held responsible for malfunctions or accidents resulting from the use of the wrong type of refrigerant.

■Our air-conditioning equipments and heat pumps contain a fluorinated greenhouse gas, R410A.

MITSUBISHI ELECTRIC CORPORATION

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MEES17K005

New publication effective June 2017
Specifications subject to change without notice