

# Specifications



## OUTDOOR UNIT

Model		22.4kW		28kW		
		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 (Nominal)	*1 kW	22.4		28.0		
	*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 (Nominal)	*2 kW	25.0		31.5		
	*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	WP15~WP50/2~20		WP15~WP50/3~25		
Sound Pressure Level (Measured in Anechoic Room)	dBA	59		60		
Sound Power Level (Measured in Anechoic Room)	dBA	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 <sup>3</sup> /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 Pressure		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)		
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 galvanised steel sheets (+ powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanised steel sheets (+ powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External Dimension H x W x D	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°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.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°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- \*3. -5°C D.B. (23°F D.B.)/-6°C W.B. (21°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.)  
with cooling/heating mixed operation.
- \*4. External static pressure option is available (30 Pa, 60 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O).

### Unit converter

BTU / h = kW × 3.412
cfm = m <sup>3</sup> / min × 35.31
lbs = kg / 0.4536

\*Above specification data is subject to rounding variation.

\*Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.  
\*Due to continuing improvement, above specifications may be subject to change without notice.



Model	33.5kW				40kW					
	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		2.96		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	WP15~WP50/3~30				WP15~WP50/4~35				
Sound Pressure Level (Measured in Anechoic Room)	dBA	62.5				62.5				
Sound Power Level (Measured in Anechoic Room)	dBA	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 <sup>3</sup> /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 Pressure	0 Pa (0 mmH <sub>2</sub> O)				0 Pa (0 mmH <sub>2</sub> O)					
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 galvanised steel sheets (+ powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>				Pre-coated galvanised steel sheets (+ powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>					
External Dimension H x W x D	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°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.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°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- \*3. -5°C D.B. (23°F D.B.)/-6°C W.B. (21°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.) with cooling/heating mixed operation.
- \*4. External static pressure option is available (30 Pa, 60 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O).

Unit converter	
BTU / h = kW × 3.412	
cfm = m <sup>3</sup> / min × 35.31	
lbs = kg / 0.4536	
*Above specification data is subject to rounding variation.	

\*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.

# OUTDOOR UNIT



Model		45kW		50kW	
		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	WP15~WP50/4~40		WP15~WP50/5~45	
Sound Pressure Level (Measured in Anechoic Room)	dBA	62.5		62.5	
Sound Power Level (Measured in Anechoic Room)	dBA	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 <sup>3</sup> /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 Pressure	0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)		
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 galvanised steel sheets (+ powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanised steel sheets (+ powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External Dimension H x W x D	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:

- Nominal cooling conditions (subject to JIS B8615-2)  
Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions (subject to JIS B8615-2)  
Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- 5°C D.B. (23°F D.B.)/-6°C W.B. (21°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.) with cooling/heating mixed operation.
- External static pressure option is available (30 Pa, 60 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O).

## Unit converter

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

\*Above specification data is subject to rounding variation.

\*Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.  
\*Due to continuing improvement, above specifications may be subject to change without notice.



Model		56kW 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	WP15~WP50/5~50	
Sound Pressure Level (Measured in Anechoic Room)	dBA	63.5	
Sound Power Level (Measured in Anechoic Room)	dBA	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 <sup>3</sup> /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 Pressure	0 Pa (0 mmH <sub>2</sub> O)		
Compressor	Type	Inverter scroll hermetic compressor	
	Starting Method	Inverter	
	Motor Output kW	13.4	
	Case Heater kW	-	
External Finish	Pre-coated galvanised steel sheets (+ powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External Dimension H x W x D	mm	1,710 (1,650 without legs) x 1,750 x 740	
		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°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.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°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- \*3. -5°C D.B. (23°F D.B.)/-6°C W.B. (21°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.)  
with cooling/heating mixed operation.
- \*4. External static pressure option is available (30 Pa, 60 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O).

Unit converter	
BTU / h = kW	× 3.412
cfm = m <sup>3</sup> / min	× 35.31
lbs = kg	/ 0.4536
*Above specification data is subject to rounding variation.	

\*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.



# OUTDOOR UNIT

Model		22.4kW		28kW		
		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 (Nominal)	*1 kW	22.4		28.0		
	*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 (Nominal)	*2 kW	25.0		31.5		
	*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	WP15~WP50/2~20		WP15~WP50/3~25		
Sound Pressure Level (Measured in Anechoic Room)	dBA	59		60		
Sound Power Level (Measured in Anechoic Room)	dBA	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 <sup>3</sup> /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 Pressure	0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)			
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 galvanised steel sheets (+ powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanised steel sheets (+ powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
External Dimension H x W x D	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°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B./24°C W.B. (95°F D.B./75°F W.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°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- \*3. -5°C D.B. (23°F D.B.)/-6°C W.B. (21°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.) with cooling/heating mixed operation.
- \*4. External static pressure option is available (30 Pa, 60 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O).

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

\*Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.  
\*Due to continuing improvement, above specifications may be subject to change without notice.



Model	33.5kW				40kW					
	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		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	WP15~WP50/3~30				WP15~WP50/4~35				
Sound Pressure Level (Measured in Anechoic Room)	dBA	62.5				62.5				
Sound Power Level (Measured in Anechoic Room)	dBA	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 <sup>3</sup> /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 Pressure	0 Pa (0 mmH <sub>2</sub> O)				0 Pa (0 mmH <sub>2</sub> O)					
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 galvanised steel sheets (+ powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>				Pre-coated galvanised steel sheets (+ powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>					
External Dimension H x W x D	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°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.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°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- \*3. -5°C D.B. (23°F D.B.)/-6°C W.B. (21°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.) with cooling/heating mixed operation.
- \*4. External static pressure option is available (30 Pa, 60 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O).

Unit converter	
BTU / h = kW	× 3.412
cfm	= m <sup>3</sup> / min × 35.31
lbs	= kg / 0.4536
*Above specification data is subject to rounding variation.	

\*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.



## OUTDOOR UNIT

Model		45kW		50kW		
		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 (Nominal)	*1 kW	45.0		50.0		
	*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 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	50.0		56.0		
	*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 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	WP15~WP50/4~40		WP15~WP50/5~45		
Sound Pressure Level (Measured in Anechoic Room)	dBA	62.5		62.5		
Sound Power Level (Measured in Anechoic Room)	dBA	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 2		Propeller fan x 2		
	Air Flow Rate	m <sup>3</sup> /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 Pressure	0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)			
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 galvanised steel sheets (+ powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanised steel sheets (+ powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
External Dimension H x W x D	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°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B./24°C W.B. (95°F D.B./75°F W.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°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- \*3. -5°C D.B. (23°F D.B.)/-6°C W.B. (21°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.) with cooling/heating mixed operation.
- \*4. External static pressure option is available (30 Pa, 60 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O).

### Unit converter

$$\begin{aligned} \text{BTU / h} &= \text{kW} \times 3,412 \\ \text{cfm} &= \text{m}^3 / \text{min} \times 35.31 \\ \text{lbs} &= \text{kg} / 0.4536 \end{aligned}$$

\*Above specification data is subject to rounding variation.

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

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



Model		56kW	
Power Source		PURY-EP500YLM-A1 (-BS)	
Cooling Capacity (Nominal)	*1 kW	3-phase 4-wire 380-400-415 V 50/60 Hz	
	*1 BTU / h	56.0	
	Power Input kW	191,100	
	Current Input A	21.22	
Temp. Range of Cooling	EER kW / kW	35.8-34.0-32.8	
	Indoor W.B.	2.63	
	Outdoor D.B.	15.0~24.0°C (59~75°F)	
Heating Capacity (Nominal)	*2 kW	-5.0~46.0°C (23~115°F)	
	*2 BTU / h	63.0	
	Power Input kW	215,000	
	Current Input A	21.67	
Temp. Range of Heating	COP kW / kW	36.5-34.7-33.4	
	Indoor D.B.	2.90	
	Outdoor W.B.	15.0~27.0°C (59~81°F)	
Indoor Unit Connectable	Total Capacity	50~150% of outdoor unit capacity	
	Model/Quantity	WP15~WP50/5~50	
Sound Pressure Level (Measured in Anechoic Room)	dBA	63.5	
Sound Power Level (Measured in Anechoic Room)	dBA	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 <sup>3</sup> /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 Pressure	0 Pa (0 mmH <sub>2</sub> O)		
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 galvanised steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External Dimension H x W x D	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°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B./24°C W.B. (95°F D.B./75°F W.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°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- \*3. -5°C D.B. (23°F D.B.)/-6°C W.B. (21°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.)  
with cooling/heating mixed operation.
- \*4. External static pressure option is available (30 Pa, 60 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O).

Unit converter	
BTU / h = kW	× 3.412
cfm = m <sup>3</sup> / min	× 35.31
lbs = kg	× 0.4536
*Above specification data is subject to rounding variation.	

\*Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.  
\*Due to continuing improvement, above specifications may be subject to change without notice.





# WATER SOURCE UNIT

Model			22.4kW	28kW
			PQRY-P200YLM-A	PQRY-P250YLM-A
Power Source			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
	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		WP15~WP50/2~20	WP15~WP50/3~25
Sound Pressure Level (Measured in Anechoic Room)	dBA		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 <sup>3</sup> /h	5.76	5.76
		L/min	96	96
		cfm	3.4	3.4
	Pressure Drop kPa		24	24
Operating Volume Range	m <sup>3</sup> /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			Galvanised steel sheets	Galvanised steel sheets
External Dimension H x W x D	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)		172 (380)	172 (380)
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°C D.B./19°C W.B. (81°F D.B./66°F W.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°C D.B. (68°F D.B.), Water temperature: 20°C (68°F D.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<sup>3</sup> / min × 35.31  
 lbs = kg / 0.4536

\*Above specification data is subject to rounding variation.



Model	33.5kW				40.0kW			
	PQRY-P300YLM-A				PQRY-P350YLM-A			
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			
Temp. Range of Cooling	EER kW / kW	4.43	4.99	4.00	4.58			
	Indoor W.B.	15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)				
Heating Capacity (Nominal)	Circulating Water °C	10.0~45.0°C (50~113°F)		10.0~45.0°C (50~113°F)				
	*2 kW	37.5		45.0				
Temp. Range of Heating	*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			
Indoor Unit Connectable	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)				
Sound Pressure Level (Measured in Anechoic Room)	Total Capacity	50~150% of heat source unit capacity		50~150% of heat source unit capacity				
	Model/Quantity	WP15~WP50/3~30		WP15~WP50/4~35				
Refrigerant Piping Diameter	dBA	54		52				
Circulating Water	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				
Compressor	Water Flow Rate m³/h	5.76		7.20				
	L/min	96		120				
	cfm	3.4		4.2				
	Pressure Drop kPa	24		44				
	Operating Volume Range m³/h	3.0 ~ 7.2		4.5 ~ 11.6				
External Finish	Type	Inverter scroll hermetic compressor		Inverter scroll hermetic compressor				
	Starting Method	Inverter		Inverter				
	Motor Output kW	7.7		9.5				
	Case Heater kW	-		-				
External Dimension H x W x D	Galvanized steel sheets		Galvanized steel sheets					
	mm	1,100 x 880 x 550		1,450 x 880 x 550				
Protection Devices	in.	43-5/16 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16				
	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)				
Refrigerant	Inverter Circuit (COMP.)	Over-heat protection, over-current protection		Over-heat protection, over-current protection				
	Compressor	Over-heat protection		Over-heat protection				
Net Weight	Type x Original Charge	R410A x 5.0 kg (12 lbs)		R410A x 6.0 kg (14 lbs)				
Heat Exchanger	kg (lbs)	172 (380)		216 (477)				
	Plate type		Plate type					
	Water Volume in Plate L	5.0		5.0				
Optional Parts	Water Pressure Max. MPa	2.0		2.0				
	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°C D.B./19°C W.B. (81°F D.B./66°F W.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°C D.B. (68°F D.B.), Water temperature: 20°C (68°F D.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Unit converter	
BTU / h = kW × 3.412	
cfm = m³ / min × 35.31	
lbs = kg / 0.4536	
*Above specification data is subject to rounding variation.	



# WATER SOURCE UNIT

Model			45kW	50kW
			PQRY-P400YLM-A	PQRY-P450YLM-A
Power Source			3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling Capacity (Nominal)	*1 kW		45.0	50
	*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
Temp. Range of Cooling	EER kW / kW		4.47	4.14
	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
Temp. Range of Heating	COP kW / kW		5.29	5.04
	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		WP15~WP50/4~40	WP15~WP50/5~45
Sound Pressure Level (Measured in Anechoic Room)	dBA		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 <sup>3</sup> /h	7.2	7.2
		L/min	120	120
		cfm	4.2	4.2
	Pressure Drop kPa		44	44
	Operating Volume Range m <sup>3</sup> /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			Galvanised steel sheets	Galvanised steel sheets
External Dimension H x W x D	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)		216 (477)	216 (477)
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°C D.B./19°C W.B. (81°F D.B./66°F W.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°C D.B. (68°F D.B.), Water temperature: 20°C (68°F D.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<sup>3</sup> / min × 35.31  
 lbs = kg / 0.4536

\*Above specification data is subject to rounding variation.



Model		56kW PQRY-P500YLM-A	
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	WP15~WP50/5~50	
Sound Pressure Level (Measured in Anechoic Room)	dBA	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 <sup>3</sup> /h	7.2
		L/min	120
		cfm	4.2
	Pressure Drop	kPa	44
	Operating Volume Range	m <sup>3</sup> /h	4.5 ~ 11.6
Compressor	Type	Inverter scroll hermetic compressor	
	Starting Method	Inverter	
	Motor Output kW	13.0	
	Case Heater kW	-	
External Finish	Galvanised steel sheets		
External Dimension H x W x D	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)	216 (477)	
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:**

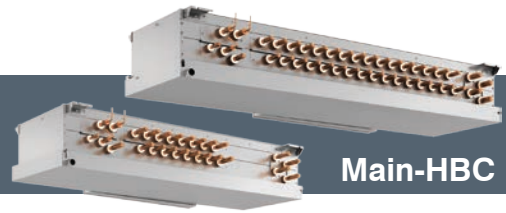
- \*1. Nominal cooling conditions (subject to JIS B8615-2)  
Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Water temperature: 30°C (86°F)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- \*2. Nominal heating conditions (subject to JIS B8615-2)  
Indoor: 20°C D.B. (68°F D.B.), Water temperature: 20°C (68°F D.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<sup>3</sup> / min × 35.31  
lbs = kg / 0.4536

\*Above specification data is subject to rounding variation.

# HYBRID BRANCH CONTROLLER



**Main-HBC**

Model			8 Port					16 Port				
			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)		dBA	41					41				
Applicable Temperature Range of Installation Site		°C (D.B.)	0~32					0~32				
External Finish			Galvanised steel plate (Lower part drain pan: pre-coated galvanised sheets + powder coating)					Galvanised steel plate (Lower part drain pan: pre-coated galvanised sheets + powder coating)				
Connectable Outdoor/Heat Source Unit			PURY-P200~500YLM-A(1)(-BS)/PURY-EP200~500YLM-A1(-BS)/PQRY-P200~500YLM-A					PURY-P200~500YLM-A(1)(-BS)/PURY-EP200~500YLM-A1(-BS)/PQRY-P200~500YLM-A				
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 H x W x D		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			-					-				

Note: When P400/P450/500 outdoor is utilised 2x master HBC's must be installed.

## Notes:

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



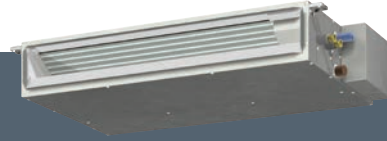
## Sub-HBC

Model			8 Port		16 Port	
			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)		dBA	-		-	
Applicable Temperature Range of Installation Site		°C (D.B.)	0~32		0~32	
External Finish			Galvanised steel plate (Lower part drain pan: pre-coated galvanised sheets + powder coating)		Galvanised steel plate (Lower part drain pan: pre-coated galvanised 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 H x W x D		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:

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

# SLIM CEILING CONCEALED



Model		1.7kW		2.2kW		2.8kW			
		PEFY-WP15VMS1-E		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		1-phase 220-230-240 V 50/60 Hz			
Cooling Capacity (Nominal)	*1 kW	1.7		2.2		2.8			
	*1 kcal/h	1,500		1,900		2,400			
	*1 BTU/h	5,800		7,500		9,600			
	*2 Power Input kW	0.050		0.051		0.060			
	*2 Current Input A	0.44		0.49		0.51			
Heating Capacity (Nominal)	*3 kW	1.9		2.5		3.2			
	*3 kcal/h	1,600		2,200		2,800			
	*3 BTU/h	6,500		8,500		10,900			
	*2 Power Input kW	0.030		0.031		0.040			
	*2 Current Input A	0.33		0.38		0.40			
External Finish		Galvanised steel plate		Galvanised steel plate		Galvanised steel plate			
External Dimension H x W x D		mm	200 x 790 x 700		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		7-7/8 x 31-1/8 x 27-9/16		
Net Weight		kg (lbs)	19 (42)		20 (45)		20 (45)		
Heat Exchanger		Cross fin (aluminium fin and copper tube)		Cross fin (aluminium fin and copper tube)		Cross fin (aluminium fin and copper tube)			
		Water Volume L	0.7		0.9		0.9		
FAN		Type x Quantity		Sirocco fan x 2		Sirocco fan x 2			
		*4 External Static Pressure	Pa	<5> - 15 - <35> - <50>		<5> - 15 - <35> - <50>		<5> - 15 - <35> - <50>	
			mmH <sub>2</sub> O	<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 <sup>3</sup> /min	5.0 - 6.0 - 7.0		5.5 - 6.5 - 8.0		5.5 - 7.0 - 9.0
L/s	83 - 100 - 117			92 - 108 - 133		92 - 117 - 150			
	cfm	177 - 212 - 247		194 - 230 - 282		194 - 247 - 318			
Sound Pressure Level (Measured in Anechoic Room)		*2 dBA	(Low-Mid-High) 22-24-28		(Low-Mid-High) 23-25-29		(Low-Mid-High) 23-26-30		
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		CITY MULTI YLM series/ CMB-WP-V-GA1/CMB-WP-V-GB1		CITY MULTI YLM series/ CMB-WP-V-GA1/CMB-WP-V-GB1		CITY MULTI YLM series/ 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.)	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°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.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°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.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 <sup>3</sup> / min × 35.31
lbs	= kg / 0.4536

\*Above specification data is subject to rounding variation.



Model		3.6kW		4.5kW		5.6kW			
		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		Galvanised steel plate		Galvanised steel plate		Galvanised 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 (aluminium fin and copper tube)		Cross fin (aluminium fin and copper tube)		Cross fin (aluminium 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 Pressure	Pa	<5> - 15 - <35> - <50>		<5> - 15 - <35> - <50>		<5> - 15 - <35> - <50>		
		mmH <sub>2</sub> O	<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 <sup>3</sup> /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	dBA	(Low-Mid-High) 28-30-33		(Low-Mid-High) 30-32-35		(Low-Mid-High) 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		CITY MULTI YLM series/ CMB-WP-V-GA1/CMB-WP-V-GB1		CITY MULTI YLM series/ CMB-WP-V-GA1/CMB-WP-V-GB1		CITY MULTI YLM series/ 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.)	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°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.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°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.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 <sup>3</sup> / min × 35.31
lbs	= kg / 0.4536
*Above specification data is subject to rounding variation.	



# CEILING CONCEALED



Model		2.2kW		2.8kW	
		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		Galvanised steel plate		Galvanised 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 (aluminium fin and copper tube)		Cross fin (aluminium fin and copper tube)	
Water Volume		L	0.7		1
FAN		Type x Quantity	Sirocco fan x 1		Sirocco fan x 1
*4	External Static Pressure	Pa	<35> - 50 - <70> - <100> - <150>		<35> - 50 - <70> - <100> - <150>
		mmH <sub>2</sub> O	<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 <sup>3</sup> /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 dBA	(Low-Mid-High) 23-26-29		(Low-Mid-High) 23-27-30
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		CITY MULTI YLM series/ CMB-WP-V-GA1/CMB-WP-V-GB1		CITY MULTI YLM series/ CMB-WP-V-GA1/CMB-WP-V-GB1	
Water Piping		Inlet	in.		Rc 3/4 screw
Diameter *5,6		Outlet	in.		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<sup>3</sup> / min × 35.31  
lbs = kg / 0.4536

\*Above specification data is subject to rounding variation.



Model		3.6kW		4.5kW		5.6kW		
		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			
	*2	Current Input	A	0.74	1.15			
Heating Capacity (Nominal)	*3	kW	4	5	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			
	*2	Current Input	A	0.63	1.04			
External Finish		Galvanised steel plate		Galvanised steel plate		Galvanised 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 (aluminium fin and copper tube)		Cross fin (aluminium fin and copper tube)		Cross fin (aluminium fin and copper tube)		
		Water Volume	L	1	1.8	1.8		
FAN		Sirocco fan x 1		Sirocco fan x 2		Sirocco fan x 2		
	*4	Type x Quantity						
	External Static Pressure	Pa	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>			
		mmH <sub>2</sub> O	<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	
	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 <sup>3</sup> /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	dBA	(Low-Mid-High) 25-29-32	(Low-Mid-High) 26-29-34	(Low-Mid-High) 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 Device		Fuse		Fuse		Fuse		
Connectable Outdoor Unit/HBC Controller		CITY MULTI YLM series/ CMB-WP-V-GA1/CMB-WP-V-GB1		CITY MULTI YLM series/ CMB-WP-V-GA1/CMB-WP-V-GB1		CITY MULTI YLM series/ CMB-WP-V-GA1/CMB-WP-V-GB1		
Water Piping		Inlet	in.	Rc 3/4 screw	Rc 3/4 screw	Rc 3/4 screw		
Diameter		*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		Filter Box		PAC-KE92TB-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<sup>3</sup> / min × 35.31  
lbs = kg / 0.4536

\*Above specification data is subject to rounding variation.

# CASSETTE OPTIONS



Model		3.6kW		4.5kW		5.6kW		
		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		Galvanised steel sheet		Galvanised steel sheet		Galvanised 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 (aluminium fin and copper tube)		Cross fin (aluminium fin and copper tube)		Cross fin (aluminium fin and copper tube)		
	Water Volume L	1.5		1.5		1.5		
FAN	*4 Type x Quantity	Turbo Fan × 1		Turbo Fan × 1		Turbo Fan × 1		
	External Static Pressure Pa	0		0		0		
	Motor Type	DC motor		DC motor		DC motor		
	Motor Output kW	0.05		0.05		0.05		
	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)		
		m <sup>3</sup> /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 (Measured in Anechoic Room) dBA		(Low-Mid1-Mid2-High) 27 - 29 - 30 - 31		(Low-Mid1-Mid2-High) 27 - 29 - 30 - 31		(Low-Mid1-Mid2-High) 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		CITY MULTI YLM series/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°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- \*2. Nominal heating conditions  
Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.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 = m<sup>3</sup> / min × 35.31  
 lbs = kg / 0.4536

\*Above specification data is subject to rounding variation.

# FLOOR STANDING CONCEALED



Model		2.2kW		2.8kW		3.6kW			
		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		Galvanised steel plate		Galvanised steel plate		Galvanised 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 (aluminium fin and copper tube)		Cross fin (aluminium fin and copper tube)		Cross fin (aluminium 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			
		*4 External Static Pressure	Pa	20 - <40> - <60>		20 - <40> - <60>		20 - <40> - <60>	
			mmH <sub>2</sub> O	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 <sup>3</sup> /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 dBA	(Low-Mid-High) 31-33-38		(Low-Mid-High) 31-33-38		(Low-Mid-High) 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		CITY MULTI YLM series/ CMB-WP-V-GA1/CMB-WP-V-GB1		CITY MULTI YLM series/ CMB-WP-V-GA1/CMB-WP-V-GB1		CITY MULTI YLM series/ 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°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.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°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.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<sup>3</sup> / min × 35.31  
lbs = kg / 0.4536

\*Above specification data is subject to rounding variation.

# FLOOR STANDING CONCEALED



Model			4.5kW	5.6kW
			PFFY-WP40VLRMM-E	PFFY-WP50VLRMM-E
Power Source			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			Galvanised steel plate	
External Dimension H x W x D			639 x 1,246 x 220	
			25-3/16 x 49-1/16 x 8-11/16	
Net Weight			29 (64)	
Heat Exchanger			Cross fin (aluminium fin and copper tube)	
Water Volume			1.5	
FAN			Sirocco fan x 2	
*4	Type x Quantity		Sirocco fan x 2	
	External Static Pressure	Pa	20 - <40> - <60>	
		mmH <sub>2</sub> O	2.0 - <4.1> - <6.1>	
	Motor Type		DC motor	
	Motor Output	kW	0.096	
	Driving Mechanism		Direct-driven by motor	
	Air Flow Rate		(Low-Mid-High)	
			m <sup>3</sup> /min	8.0 - 10.0 - 11.5
L/s			133 - 167 - 192	
	cfm	282 - 353 - 406		
Sound Pressure Level (Measured in Anechoic Room)			(Low-Mid-High)	
*2			34-37-40	
Insulation Material			Polyethylene foam, urethane foam	
Air Filter			PP honeycomb fabric	
Protection Device			Fuse	
Connectable Outdoor Unit/HBC Controller			CITY MULTI YLM series/CMB-WP-V-GA1/CMB-WP-V-GB1	
Water Piping			Rc 3/4 screw	
*5,6	Inlet	in.	Rc 3/4 screw	
	Outlet	in.	Rc 3/4 screw	
Field Drain Pipe Size			I.D.26 (1) <accessory hose O.D.27 (1-3/32) (top end: O.D.20 (13/16))>	
Standard Attachment			Insulation pipe for water pipe, drain hose (flexible joint), screw plate, level adjusting screw, hose band	
Accessory			Insulation pipe for water pipe, drain hose (flexible joint), screw plate, level adjusting screw, hose band	

## Notes:

- \*1. Nominal cooling conditions  
Indoor: 27°CDB./19°CWB. (81°FDB./66°FWB.), Outdoor: 35°CDB. (95°FDB.)  
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°CDB. (68°FDB.), Outdoor: 7°CDB./6°CWB. (45°FDB./43°FWB.)  
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 <sup>3</sup> / min × 35.31
lbs = kg / 0.4536

\*Above specification data is subject to rounding variation.