1. SPECIFICATIONS

Model				PFFY-WL20VCM-A	PFFY-WL25VCM-A	PFFY-WL32VCM-A	PFFY-WL40VCM-A
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	1-phase 220-230-240 V 50/60 Hz
Cooling capacity		*1	kW	2.2	2.8	3.6	4.5
(Nominal)		*1	BTU/h	7,500	9,600	12,300	15,400
	*2 Power input		kW	0.022	0.029	0.035	0.038
	*2 Current input		A	0.25-0.24-0.23	0.33-0.32-0.30	0.38-0.36-0.35	0.38-0.36-0.35
Heating capacity		*3	kW	2.5	3.2	4.0	5.0
(Nominal)		*3	BTU/h	8,500	10,900	13,600	17,100
	*2 Power input		kW	0.022	0.029	0.035	0.038
	*2 Current input		A	0.25-0.24-0.23	0.33-0.32-0.30	0.38-0.36-0.35	0.38-0.36-0.35
External finish				Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate
External dimension H × W × D		*4	mm	615 (690) x 700 x 200	615 (690) x 700 x 200	615 (690) x 700 x 200	615 (690) x 900 x 200
		*4	in.	24-1/4 (27-3/16) x 27-9/16 x 7-7/8	24-1/4 (27-3/16) x 27-9/16 x 7-7/8	24-1/4 (27-3/16) x 27-9/16 x 7-7/8	24-1/4 (27-3/16) x 35-7/16 x 7-7/8
Net weight			kg (lbs)	18 (40)	18 (40)	18.5 (42)	22.5 (51)
Heat exchanger				Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)
	Water Volume		L	0.8	0.8	1.0	1.3
FAN	Type × Quantity			Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 3
*5	External static press.		Pa	<0> - 10 - <40> - <60>	<0> - 10 - <40> - <60>	<0> - 10 - <40> - <60>	<0> - 10 - <40> - <60>
			mmH_2O	<0.0> - 1.0 - <4.1> - <6.1>	<0.0> - 1.0 - <4.1> - <6.1>	<0.0> - 1.0 - <4.1> - <6.1>	<0.0> - 1.0 - <4.1> - <6.1>
	Motor Type			DC motor	DC motor	DC motor	DC motor
	Motor output		kW	0.096	0.096	0.096	0.096
	Driving mechanism			Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
	Air flow rate			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
			m^3/min	5.0 - 6.0 - 7.0	5.5 - 7.0 - 8.5	6.5 - 7.5 - 9.0	8.0 - 9.5 - 11.0
			L/s	83 - 100 - 117	92 - 117 - 142	108 - 125 - 150	133 - 158 - 183
			cfm	177 - 212 - 247	194 - 247 - 300	230 - 265 - 318	282 - 335 - 388
Sound pressure level (measured in anechoic room)				(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
		*2	dB <A>	21.0-23.0-26.0	22.0-26.0-30.0	25.0-28.0-32.0	25.0-27.0-30.0
Insulation material				Polystyrene foam, Polyethylene foam, Urethane foam	Polystyrene foam, Polyethylene foam, Urethane foam	Polystyrene foam, Polyethylene foam, Urethane foam	Polystyrene foam, Polyethylene foam, Urethane foam
Air filter				PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.
Protection device				Fuse	Fuse	Fuse	Fuse
Refrigerant control device				-	-	-	-
Connectable HBC/Hydro unit				CMB-WM-V-AA, CMB-WM-F-AA, CMB-WM-V-BB/CMH-WM-V-A	CMB-WM-V-AA, CMB-WM-F-AA, CMB-WM-V-BB/CMH-WM-V-A	CMB-WM-V-AA, CMB-WM-F-AA, CMB-WM-V-BB/CMH-WM-V-A	CMB-WM-V-AA, CMB-WM-F-AA, CMB-WM-V-BB/CMH-WM-V-A
Water piping diameter		*6, 7					
Connection size	Inlet		mm O.D.	22	22	22	22
	Outlet		mm O.D.	22	22	22	22
Field pipe size	Inlet		mm I.D.	20	20	20	20
	Outlet		mm I.D.	20	20	20	20
Field drain pipe size			mm (in.)	O.D.32 (1-1/4)	O.D.32 (1-1/4)	O.D.32 (1-1/4)	O.D.32 (1-1/4)
Drawing	External			KB94C4K8, KB94C4KA	KB94C4K8, KB94C4KA	KB94C4K8, KB94C4KA	KB94C4K8, KB94C4KA
	Wiring			KB94C4KB	KB94C4KB	KB94C4KB	KB94C4KB
	Refrigerant cycle			-	-	-	-
Standard attachment	Document			Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book
	Accessory			Washer, Drain hose, Tie band, Leg, Screw	Washer, Drain hose, Tie band, Leg, Screw	Washer, Drain hose, Tie band, Leg, Screw	Washer, Drain hose, Tie band, Leg, Screw
Optional parts	Valve kit		*8	PAC-SK35VK-E	PAC-SK35VK-E	PAC-SK35VK-E	PAC-SK35VK-E
		6m Lead wire		PAC-SK40LW-E	PAC-SK40LW-E	PAC-SK40LW-E	PAC-SK40LW-E
		Attachment plate		PAC-SK39AP-E	PAC-SK39AP-E	PAC-SK39AP-E	PAC-SK39AP-E
Remarks				* 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.			

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 height that includes the duct flange is 638 (713) mm. The values in () show the height of unit with leg.
5.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.
6.Be sure to install a valve on the water inlet/outlet.
7.Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.
8.Certain restrictions apply to indoor unit combinations.
  Refer to the section on the valve kit in the chapter "OPTIONAL PARTS" in the DATA BOOK for the restrictions.
  When the valve kit is installed farther away from the HBC than the distance between the HBC and the WL-model indoor unit, the maximum allowable height difference between the HBC and the valve kit is 15 meters.
  The maximum allowable piping length between the indoor unit and the valve kit is 5 meters.
9.Please group units that operate on 1 branch of HBC controller.

Unit converter

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

*Above specification data is subject to rounding variation.

Model				PFFY-WL50VCM-A			
Power source				1-phase 220-230-240 V 50/60 Hz			
Cooling capacity		*1	kW	5.6			
(Nominal)		*1	BTU/h	19,100			
	*2 Power input		kW	0.062			
	*2 Current input		A	0.52-0.50-0.46			
Heating capacity		*3	kW	6.3			
(Nominal)		*3	BTU/h	21,500			
	*2 Power input		kW	0.062			
	*2 Current input		A	0.52-0.50-0.46			
External finish				Galvanized steel plate			
External dimension H × W × D		*4	mm	615 (690) x 900 x 200			
		*4	in.	24-1/4 (27-3/16) x 35-7/16 x 7-7/8			
Net weight			kg (lbs)	22.5 (51)			
Heat exchanger				Cross fin (Aluminum fin and copper tube)			
	Water Volume		L	1.3			
FAN	Type × Quantity			Sirocco fan x 3			
	*5 External static press.		Pa	<0> - 10 - <40> - <60>			
			mmH_2O	<0.0> - 1.0 - <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^3/min	10.5 - 12.5 - 14.5			
			L/s	175 - 208 - 242			
			cfm	371 - 441 - 512			
Sound pressure level (measured in anechoic room)				(Low-Mid-High)			
		*2	dB <A>	28.0-32.0-35.0			
Insulation material				Polystyrene foam, Polyethylene foam, Urethane foam			
Air filter				PP honeycomb fabric.			
Protection device				Fuse			
Refrigerant control device				-			
Connectable HBC/Hydro unit				CMB-WM-V-AA, CMB-WM-F-AA, CMB-WM-V-BB/CMH-WM-V-A			
Water piping diameter		*6, 7					
Connection size	Inlet		mm O.D.	22			
	Outlet		mm O.D.	22			
Field pipe size	Inlet		mm I.D.	20			
	Outlet		mm I.D.	20			
Field drain pipe size			mm (in.)	O.D.32 (1-1/4)			
Drawing	External			KB94C4K8, KB94C4KA			
	Wiring			KB94C4KB			
	Refrigerant cycle			-			
Standard attachment	Document			Installation Manual, Instruction Book			
	Accessory			Washer, Drain hose, Tie band, Leg, Screw			
Optional parts	Valve kit		*8	PAC-SK35VK-E			
		6m Lead wire		PAC-SK40LW-E			
		Attachment plate		PAC-SK39AP-E			
Remarks				* 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.			

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.
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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 height that includes the duct flange is 638 (713) mm. The values in () show the height of unit with leg.
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