

1. SPECIFICATIONS

Floor standing (Exposed type)

PFFY-WL-VEM-A

Model			PFFY-WL20VEM-A	PFFY-WL25VEM-A	PFFY-WL32VEM-A	PFFY-WL40VEM-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 (Nominal)	*1	kW	2.2	2.8	3.6	4.5						
	*1	BTU/h	7,500	9,600	12,300	15,400						
	Power input		kW	0.021	0.029	0.036	0.037					
	Current input		A	0.26-0.25-0.24	0.34-0.33-0.31	0.40-0.39-0.37	0.39-0.38-0.36					
Heating capacity (Nominal)	*2	kW	2.5	3.2	4.0	5.0						
	*2	BTU/h	8,500	10,900	13,600	17,100						
	Power input		kW	0.021	0.029	0.036	0.037					
	Current input		A	0.26-0.25-0.24	0.34-0.33-0.31	0.40-0.39-0.37	0.39-0.38-0.36					
External finish			Galvanized steel plate, MUNSELL (1.0Y 9.2/0.2)/ABS, MUNSELL (5.32GY 8.75/0.37)	Galvanized steel plate, MUNSELL (1.0Y 9.2/0.2)/ABS, MUNSELL (5.32GY 8.75/0.37)	Galvanized steel plate, MUNSELL (1.0Y 9.2/0.2)/ABS, MUNSELL (5.32GY 8.75/0.37)	Galvanized steel plate, MUNSELL (1.0Y 9.2/0.2)/ABS, MUNSELL (5.32GY 8.75/0.37)						
External dimension H × W × D		*3	mm	669 (726) x 1,142 x 217	669 (726) x 1,142 x 217	669 (726) x 1,142 x 217	669 (726) x 1,342 x 217					
		*3	in.	26-3/8 (28-5/8) x 45 x 8-9/16	26-3/8 (28-5/8) x 45 x 8-9/16	26-3/8 (28-5/8) x 45 x 8-9/16	26-3/8 (28-5/8) x 52-7/8 x 8-9/16					
Net weight		kg (lbs)	29.5 (67)	29.5 (67)	30 (67)	35 (78)						
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			
	External static press.	Pa		0		0		0		0		
		mmH ₂ O		0.0		0.0		0.0		0.0		
	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)			
			dB <A>		23.0-27.0-31.0		25.0-31.0-36.0		29.0-33.0-37.0		29.0-33.0-36.0	
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			*4, 5									
	Connection size	Inlet	mm O.D.	22	22	22	22	22	22			
		Outlet	mm O.D.	22	22	22	22	22	22			
	Field pipe size	Inlet	mm I.D.	20	20	20	20	20	20			
		Outlet	mm I.D.	20	20	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)	O.D.32 (1-1/4)				
Drawing	External		KB94C4K4, KB94C4K5		KB94C4K4, KB94C4K5		KB94C4K4, KB94C4K5		KB94C4K4, KB94C4K5			
	Wiring		KB94C4K3		KB94C4K3		KB94C4K3		KB94C4K3			
	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, Leg cover, M4 screw, M5 screw		Washer, Drain hose, Tie band, Leg, Leg cover, M4 screw, M5 screw		Washer, Drain hose, Tie band, Leg, Leg cover, M4 screw, M5 screw		Washer, Drain hose, Tie band, Leg, Leg cover, M4 screw, M5 screw			
Optional parts	Back decoration panel		PAC-BP32VEM-E		PAC-BP32VEM-E		PAC-BP32VEM-E		PAC-BP50VEM-E			
	Valve kit	*6	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:		Unit converter	
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.)		BTU/h	=kW x 3,412
2.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.)		cfm	=m ³ /min x 35.31
3.The values in () show the height of unit with leg.		lbs	=kg/0.4536
4.Be sure to install a valve on the water inlet/outlet.			
5.Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.			
6.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.			
7.Please group units that operate on 1 branch of HBC controller.		*Above specification data is subject to rounding variation.	

1. SPECIFICATIONS

Floor standing (Exposed type)

PFFY-WL-VEM-A

Model			PFFY-WL50VEM-A					
Power source			1-phase 220-230-240 V 50/60 Hz					
Cooling capacity (Nominal)	*1	kW	5.6					
	*1	BTU/h	19,100					
	Power input		kW	0.064				
	Current input		A	0.68-0.65-0.63				
Heating capacity (Nominal)	*2	kW	6.3					
	*2	BTU/h	21,500					
	Power input		kW	0.064				
	Current input		A	0.68-0.65-0.63				
External finish			Galvanized steel plate, MUNSELL (1.0Y 9.2/0.2)/ABS, MUNSELL (5.32GY 8.75/0.37)					
External dimension H × W × D		*3	mm	669 (726) x 1,342 x 217				
		*3	in.	26-3/8 (28-5/8) x 52-7/8 x 8-9/16				
Net weight		kg (lbs)	35 (78)					
Heat exchanger			Cross fin (Aluminum fin and copper tube)					
		Water Volume	L	1.3				
FAN	Type × Quantity		Sirocco fan x 3					
	External static press.	Pa	0					
		mmH ₂ O	0.0					
	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)					
			dB <A>	35.0-40.0-43.0				
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				*4, 5				
	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		KB94C4K4, KB94C4K5					
	Wiring		KB94C4K3					
	Refrigerant cycle		-					
Standard attachment	Document		Installation Manual, Instruction Book					
	Accessory		Washer, Drain hose, Tie band, Leg, Leg cover, M4 screw, M5 screw					
Optional parts	Back decoration panel		PAC-BP50VEM-E					
	Valve kit	*6	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:		Unit converter
1.Nominal cooling conditions		BTU/h =kW x 3,412
Indoor: 27°CDB./19°CWB. (81°FDB./66°FWB.), Outdoor: 35°CDB. (95°FDB.)		cfm =m ³ /min x 35.31
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)		lbs =kg/0.4536
2.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.)		
3.The values in () show the height of unit with leg.		
4.Be sure to install a valve on the water inlet/outlet.		
5.Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.		
6.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.		
7.Please group units that operate on 1 branch of HBC controller.		
		*Above specification data is subject to rounding variation.