

AIR CONDITIONING SYSTEMS

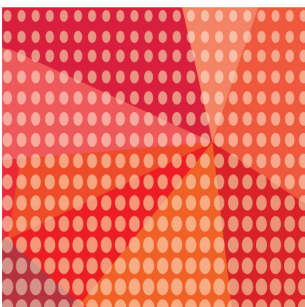
CITY MULTI



DATA BOOK

MODEL

PFFY-WL-VEM-A



PFFY-WL-VEM-A

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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	0.021	0.029	0.036	0.037	
		Current input	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	0.021	0.029	0.036	0.037	
		Current input	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, MUNSSELL (1.0Y 9.2/0.2)/ABS, MUNSSELL (5.32GY 8.75/0.37)	Galvanized steel plate, MUNSSELL (1.0Y 9.2/0.2)/ABS, MUNSSELL (5.32GY 8.75/0.37)	Galvanized steel plate, MUNSSELL (1.0Y 9.2/0.2)/ABS, MUNSSELL (5.32GY 8.75/0.37)	Galvanized steel plate, MUNSSELL (1.0Y 9.2/0.2)/ABS, MUNSSELL (5.32GY 8.75/0.37)	
External dimension H x W x D			*3 mm	669 (726) x 1,142 x 217	669 (726) x 1,142 x 217	669 (726) x 1,142 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)	
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 x 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)	(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	
		mm O.D.	22	22	22	22	
Field pipe size	Inlet	mm I.D.	20	20	20	20	
		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)	
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°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.)	BTU/h = kW x 3.412
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.)	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

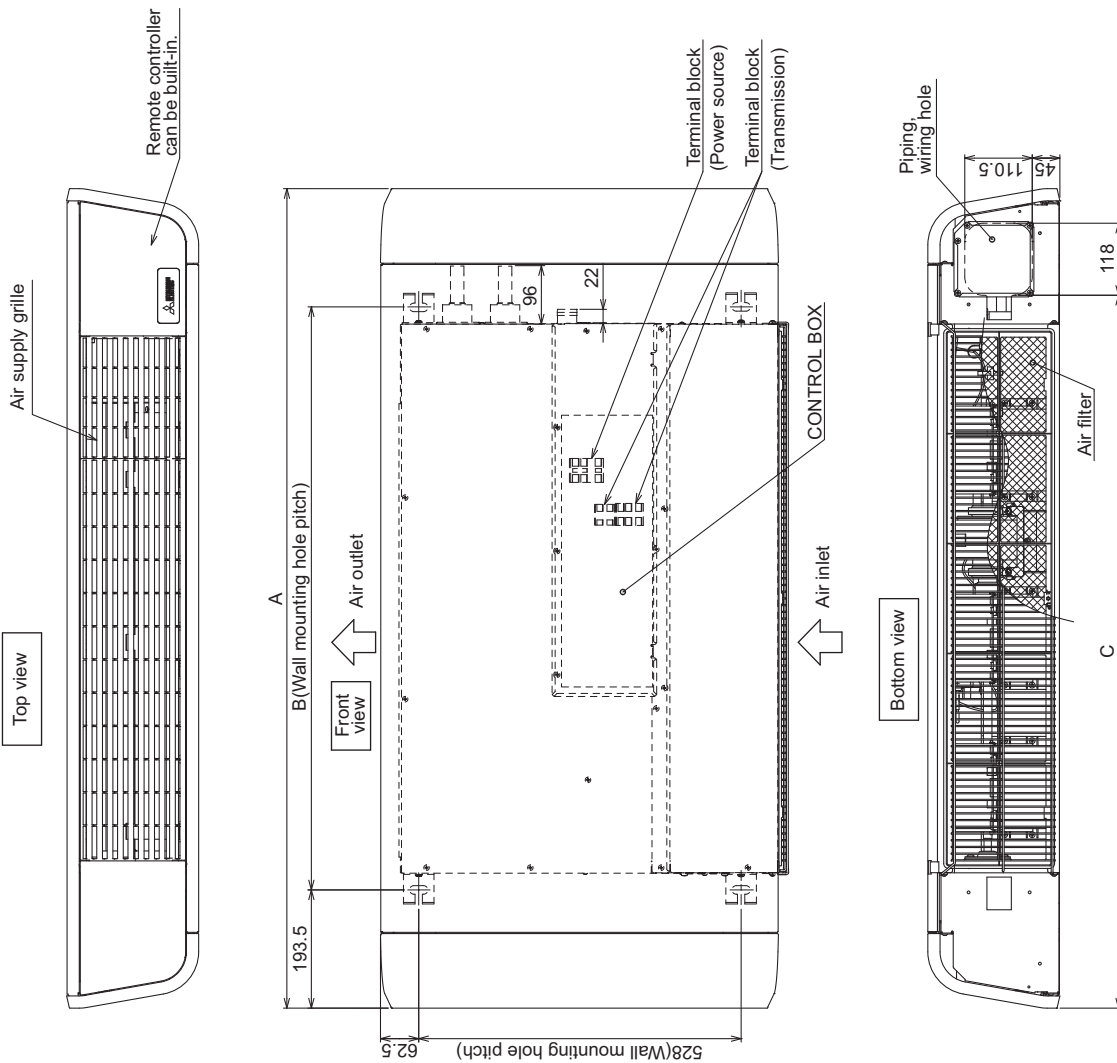
Model		PFFY-WL50VEM-A				
Power source		1-phase 220-230-240 V 50/60 Hz				
Cooling capacity (Nominal)	*1	kW	5.6			
	*1	BTU/h	19,100			
	Power input		kW	0.064		
Current input		A	0.68-0.65-0.63			
Heating capacity (Nominal)	*2	kW	6.3			
	*2	BTU/h	21,500			
	Power input		kW	0.064		
Current input		A	0.68-0.65-0.63			
External finish		Galvanized steel plate, MUNSSELL (1.0Y 9.2/0.2)/ABS, MUNSSELL (5.32GY 8.75/0.37)				
External dimension H × W × D	*3	mm	669 (726) × 1,342 × 217			
	*3	in.	26-3/8 (28-5/8) × 52-7/8 × 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 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.)	BTU/h =kW x 3,412 cfm =m ³ /min x 35.31 lbs =kg/0.4536
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.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.

PFFY-WL20, 25, 32, 40, 50VEM-A - wall mounting

Unit: mm

- Note 1. Use an M10 screw for the wall and floor mounting bolt (field supply).
- 2. This drawing is for PFFY-WL40-50VEM-A models have 3 fans.
PFFY-WL20-25-32VEM-A models have 2 fans.



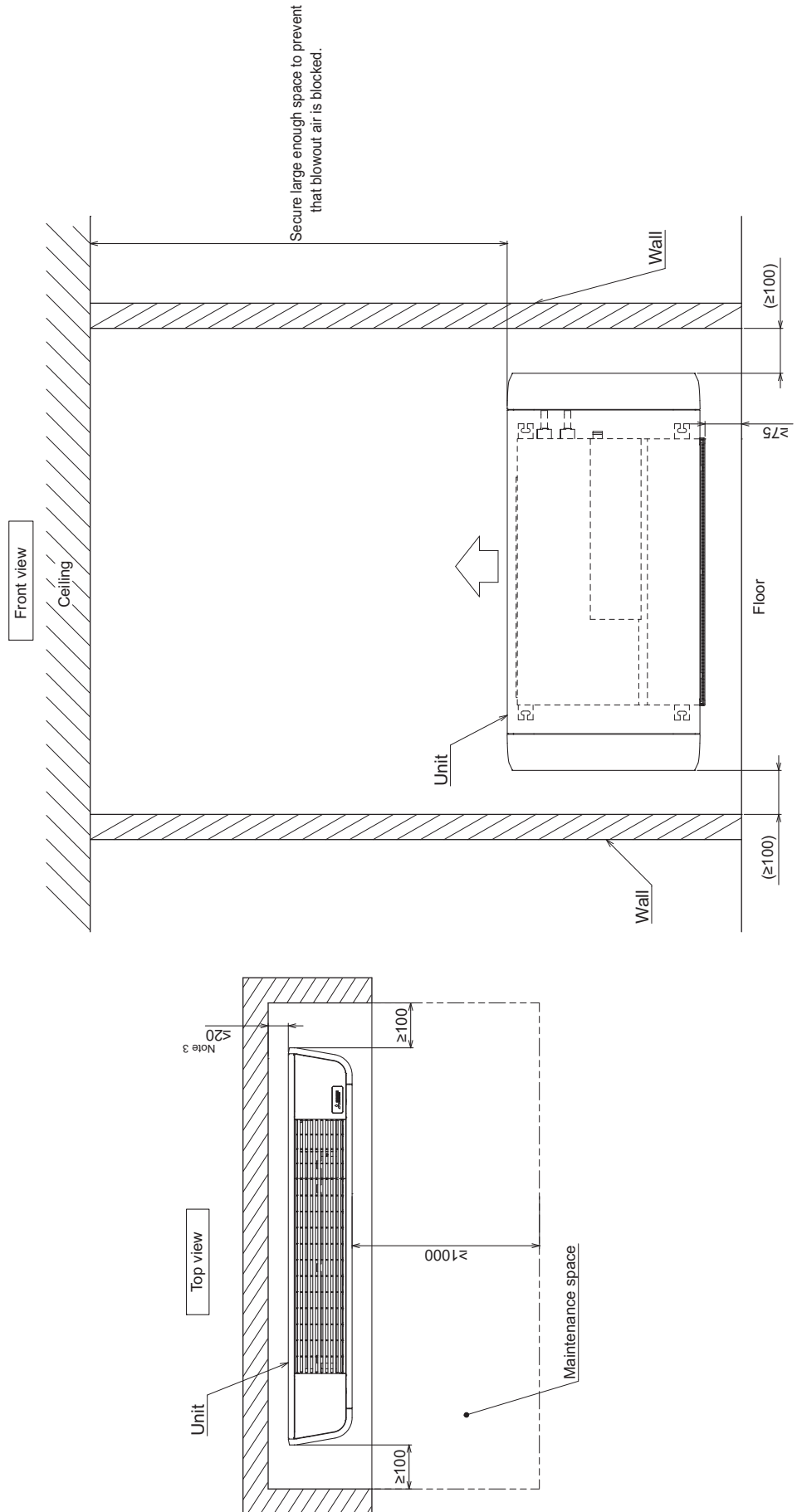
Model	A	B	C	① Water pipe (From HBC/Hydro unit) O.D.ø22	② Water pipe (To HBC/Hydro unit) O.D.ø22
PFFY-WL20-25-32VEM-A	1142	755	967.5	O.D.ø22	O.D.ø22
PFFY-WL40-50VEM-A	1342	955	1167.5	O.D.ø22	O.D.ø22

PFFY-WL20, 25, 32, 40, 50VEM-A - wall mounting

Unit: mm

Note 3. When the unit is installed on the wall, vibrations may be transmitted to the wall. Take measures against vibrations as needed at the site.

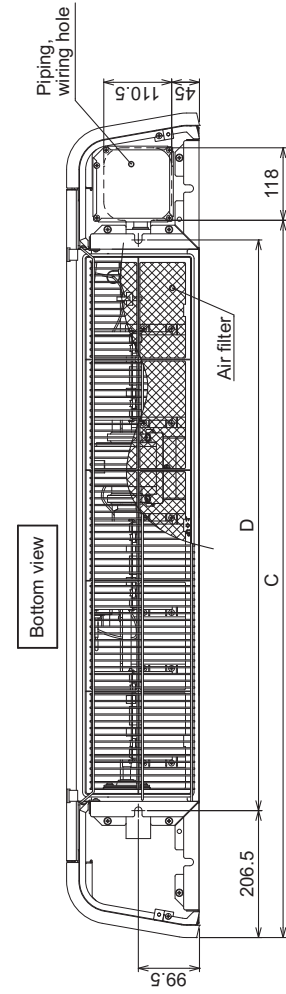
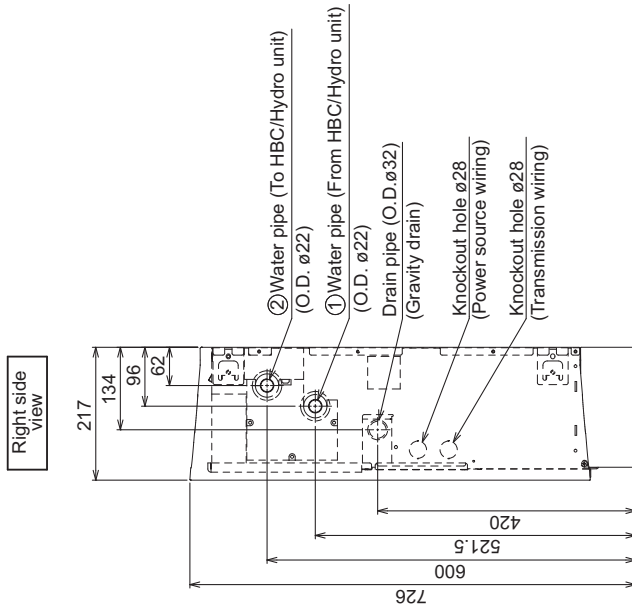
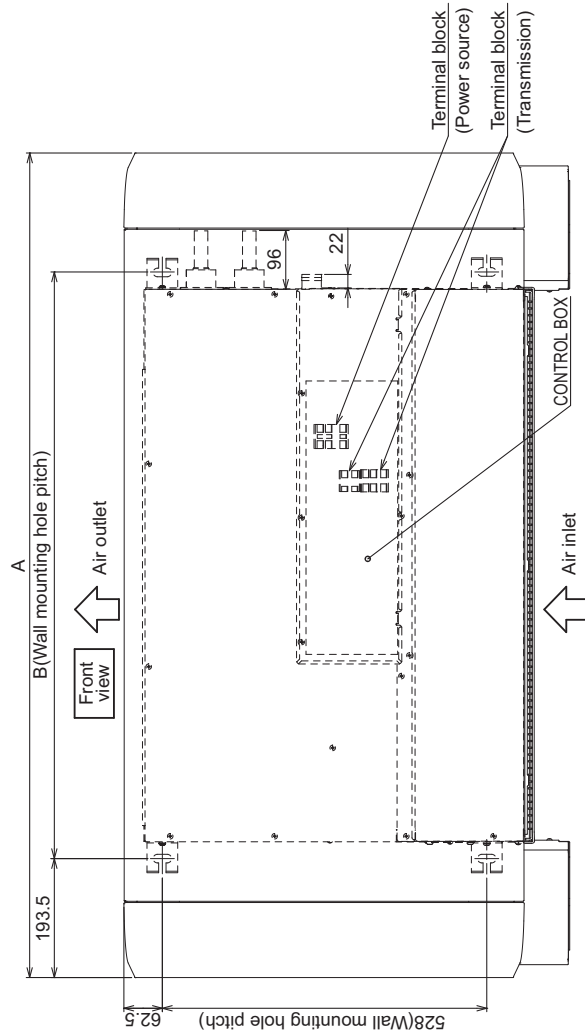
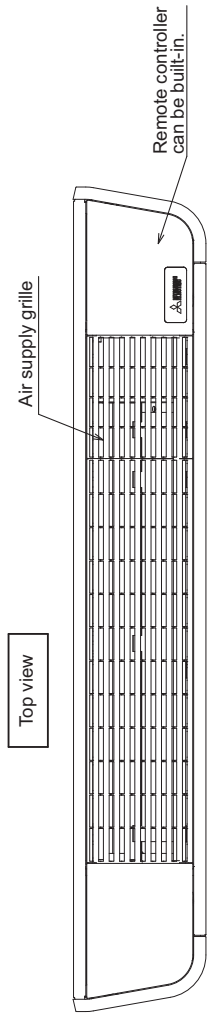
[Maintenance access space]
Secure enough access space to allow for the maintenance, inspection, and replacement of the motor, fan, heat exchanger, drain pan and control box.



PFFY-WL20, 25, 32, 40, 50VEM-A - floor mounting

Unit: mm

Note 1. Use an M10 screw for the wall and floor mounting bolt (field supply).
 2. This drawing is for PFFY-WL40-50VEM-A models have 3 fans.
 PFFY-WL20-25-32VEM-A models have 2 fans.



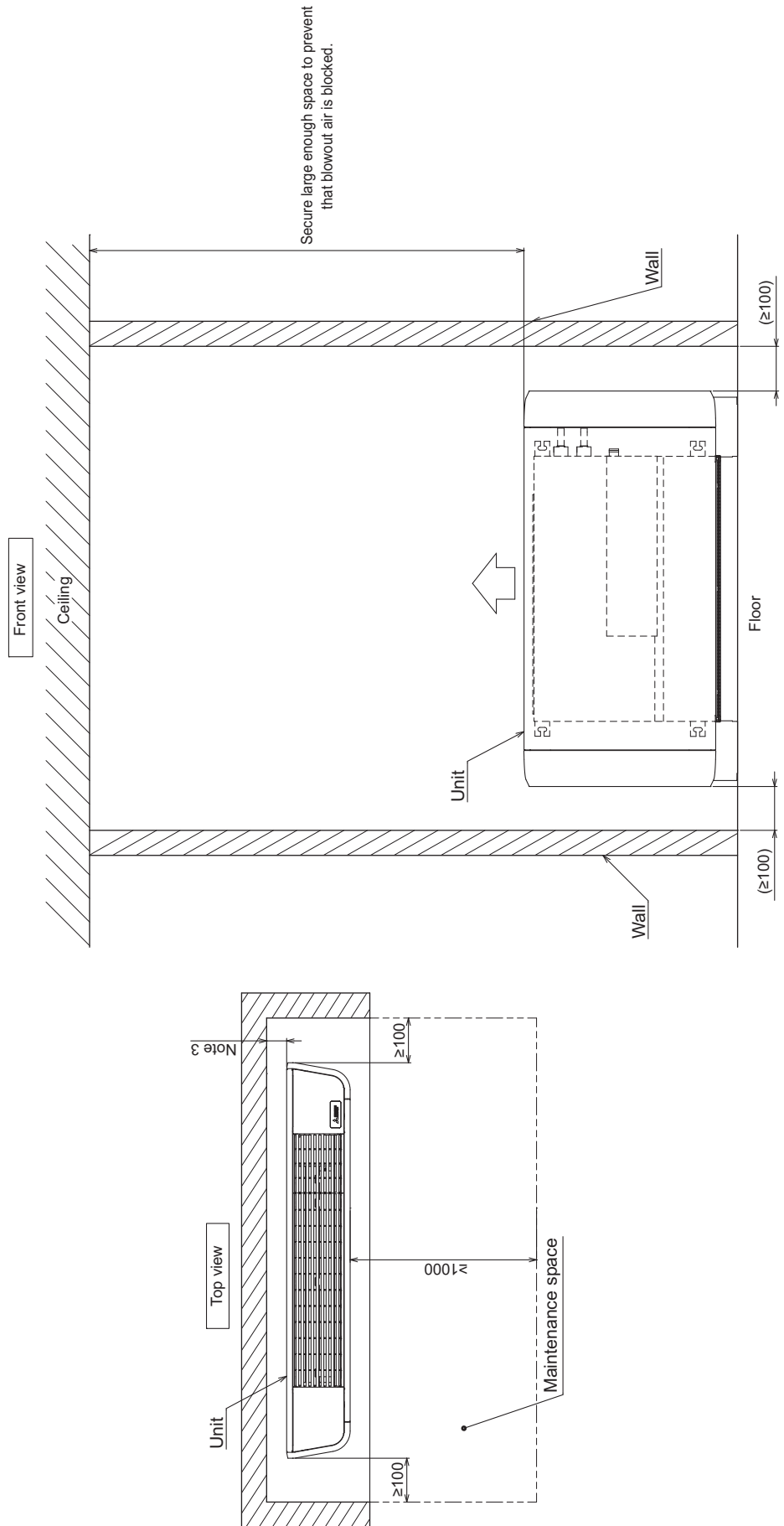
Model	A	B	C	D	① Water pipe (From HBC/Hydro unit) O.D.ø22	② Water pipe (To HBC/Hydro unit) O.D.ø22
PFFY-WL20-25-32VEM-A	1142	755	967.5	729		
PFFY-WL40-50VEM-A	1342	955	1167.5	929		

PFFY-WL20, 25, 32, 40, 50VEM-A - floor mounting

Unit: mm

Note 3. When the unit is installed on the wall, vibrations may be transmitted to the wall. Take measures against vibrations as needed at the site.

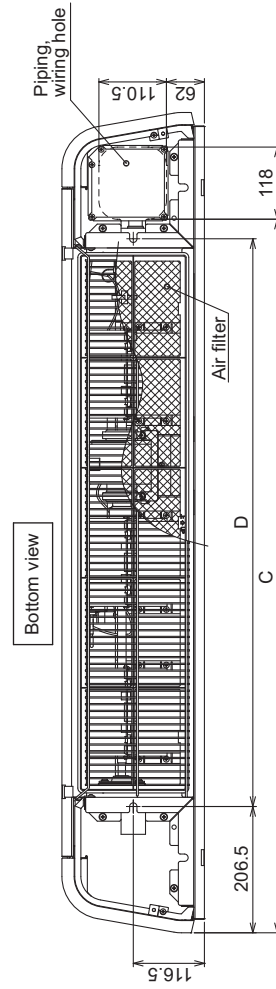
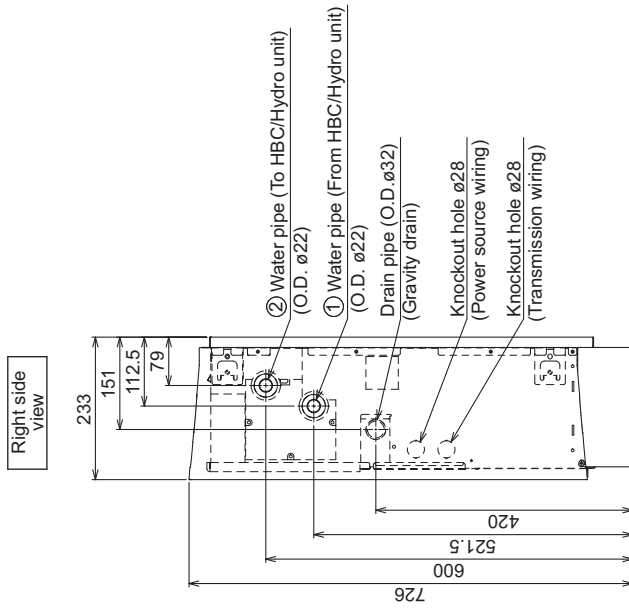
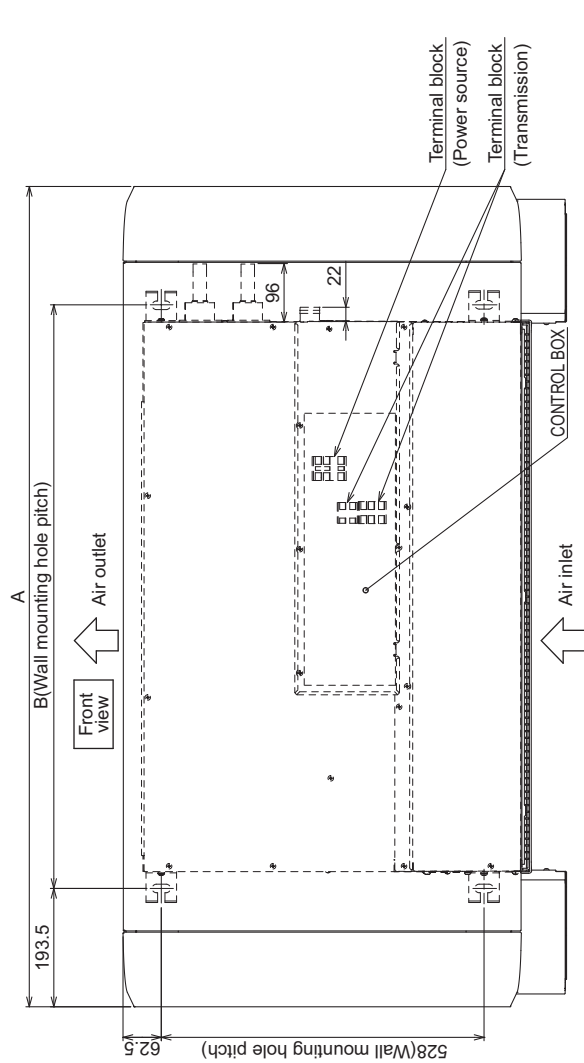
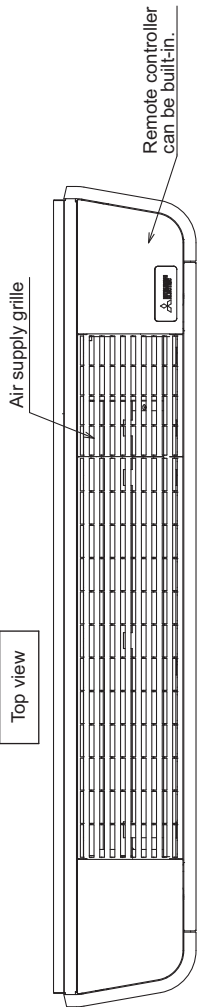
[Maintenance access space]
Secure enough access space to allow for the maintenance, inspection, and replacement of the motor, fan, heat exchanger, drain pan and control box.



PFFY-WL20, 25, 32, 40, 50VEM-A - back panel installation - floor mounting

Unit: mm

- Note 1. Use an M10 screw for the wall and floor mounting bolt (field supply).
- 2. This drawing is for PFFY-WL40-50VEM-A models have 3 fans.
PFFY-WL20-25-32VEM-A models have 2 fans.



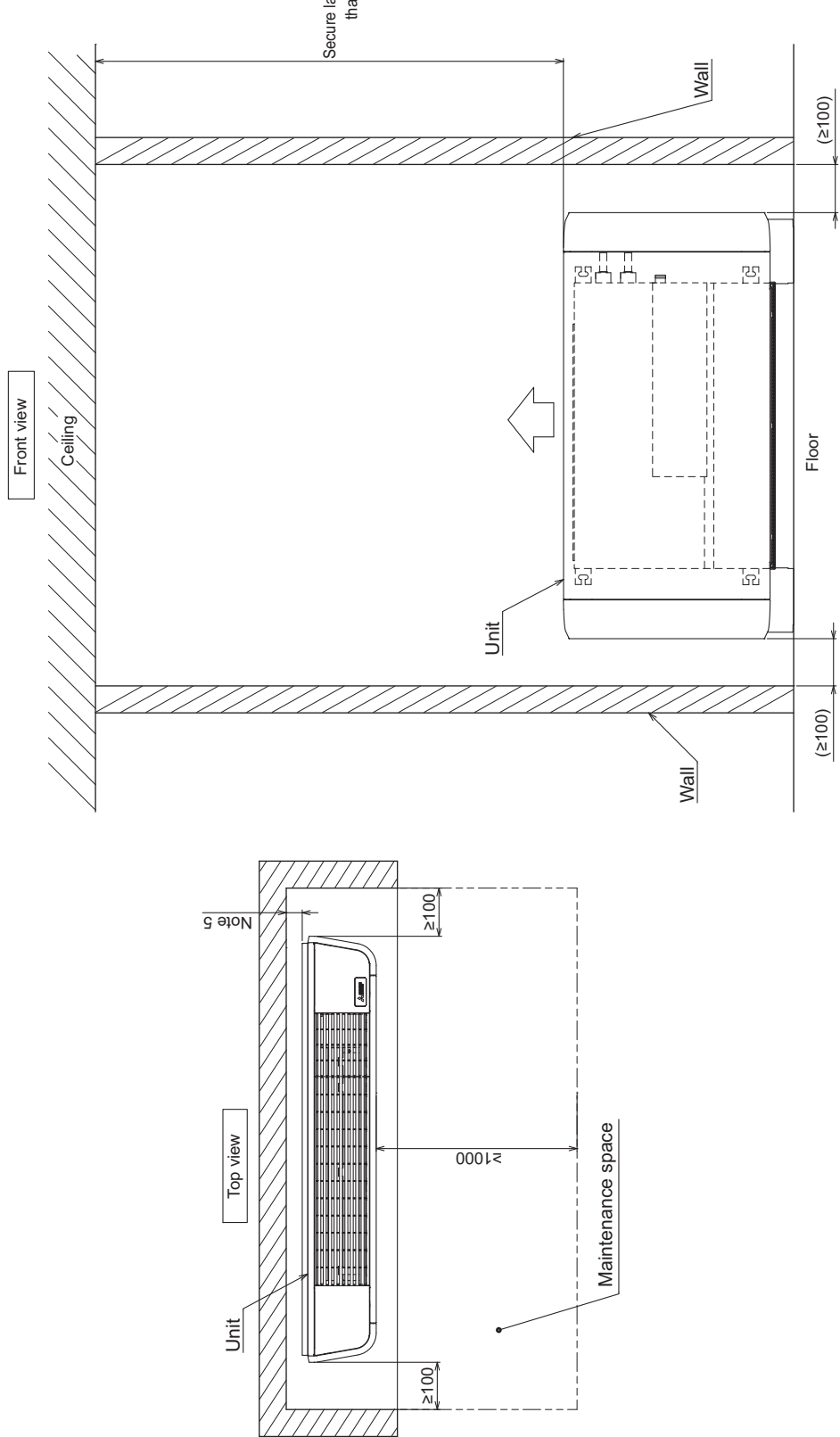
Model	A	B	C	D	① Water pipe (From HBC/Hydro unit) O.D. ø22	② Water pipe (To HBC/Hydro unit) O.D. ø22
PFFY-WL20-25-32VEM-A	1142	755	967.5	729		
PFFY-WL40-50VEM-A	1342	955	1167.5	929		

PFFY-WL20, 25, 32, 40, 50VEM-A - back panel installation - floor mounting

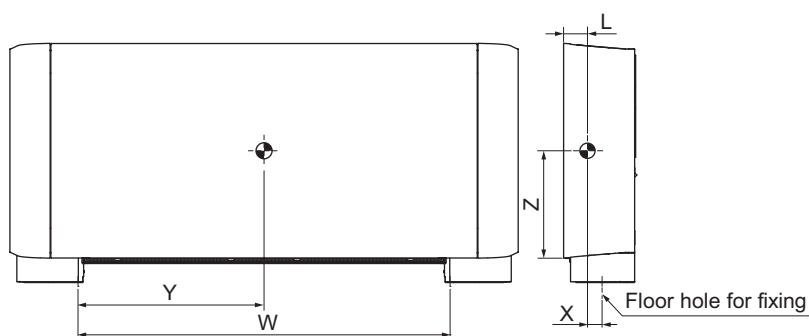
Unit: mm

- Note 3. Install the back panel before floor mounting.
- 4. The back panel can not be removed once it is floor mounting.
- 5. When the unit is installed on the wall, vibrations may be transmitted to the wall. Take measures against vibrations as needed at the site.

[Maintenance access space]
 Secure enough access space to allow for the maintenance, inspection, and replacement of the motor, fan, heat exchanger, drain pan and control box.



PFFY-WL20, 25, 32, 40, 50VEM-A



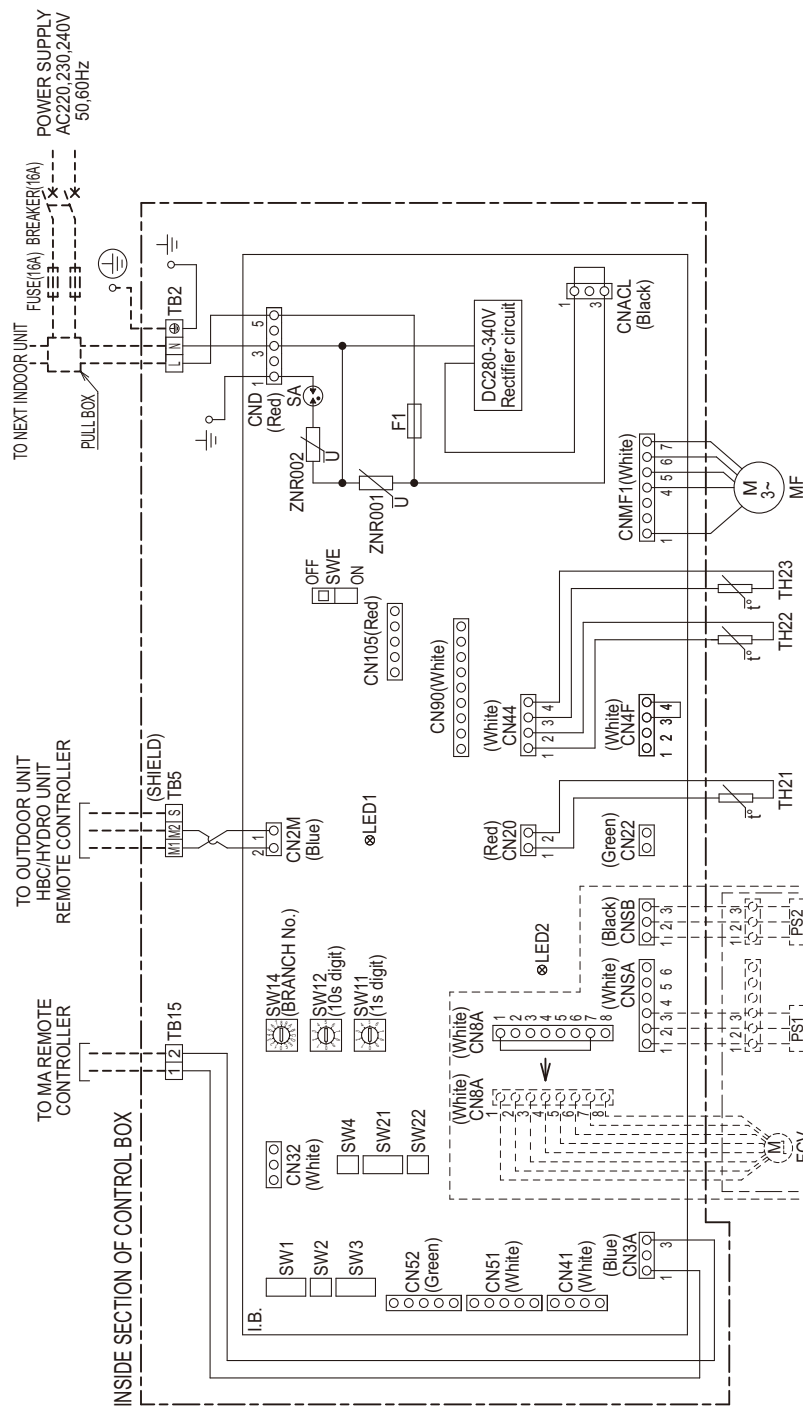
(mm) [in]

Model name	W	L	X	Y	Z
PFFY-WL20VEM-A	730 [28-3/4]	76 [3]	40 [1-5/8]	365 [14-3/8]	320 [12-5/8]
PFFY-WL25VEM-A	730 [28-3/4]	76 [3]	40 [1-5/8]	365 [14-3/8]	320 [12-5/8]
PFFY-WL32VEM-A	730 [28-3/4]	76 [3]	40 [1-5/8]	365 [14-3/8]	320 [12-5/8]
PFFY-WL40VEM-A	930 [36-5/8]	76 [3]	40 [1-5/8]	475 [18-3/4]	330 [13]
PFFY-WL50VEM-A	930 [36-5/8]	76 [3]	40 [1-5/8]	475 [18-3/4]	330 [13]

PFFY-WL-VEM-A

PFFY-WL20, 25, 32, 40, 50VEM-A

SYMBOL	EXPLANATION
MF	Fan Motor
FCV	Flow control valve
PS1	Pressure sensor (valve inlet)
PS2	Pressure sensor (valve outlet)
TB2	Power source terminal block
TB5	Transmission terminal block
TB15	Transmission terminal block
TH21	Thermistor (inlet air temp. detection)
TH22	Thermistor (piping temp. detection/inlet water)
TH23	Thermistor (piping temp. detection/outlet water)
I.B.	Indoor controller board
SA	Arrester
F1	Fuse AC250V 6.3A
ZNR001	Varistor
ZNR002	Varistor
CN22	Connector (Optional Thermistor)
CN32	Connector (Remote switch)
CN41	Connector (HA terminal-A)
CN51	Connector (Centrally control)
CN52	Connector (Remote indication)
CN90	Connector (Wireless)
CN105	Connector (IT terminal)
SW1	Switch (for mode selection)
SW2	Switch (for capacity code)
SW3	Switch (for mode selection)
SW4	Switch (for model selection)
SW11	Switch (1s digit address set)
SW12	Switch (10s digit address set)
SW14	Switch (BRANCH No.)
SW21	Switch (for mode selection)
SW22	Switch (Wireless pair No.)
SWE	Connector (emergency operation)
LED1	LED (Power supply)
LED2	LED (Remote controller supply)



NOTE)1) Symbols used in wiring diagram are

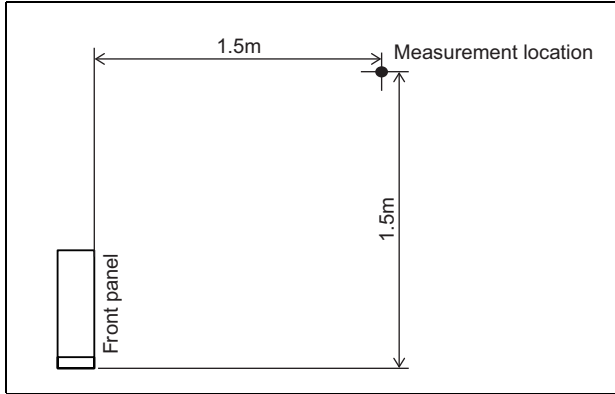
- ○ ○ ○: Connector, □: Terminal,
 - (Heavy dotted line): Field wiring,
 - - - (Thin dotted line): Optional parts.
2. Have all electric work done by a licensed electrician according to the local regulations.
3. Earth leakage circuit breaker should be set up on the wiring of the power supply.

MODEL	SW1	SW2	SW3	SW4	SW21	SW22	SWE
PFFY-WL20VEM-A	ON 1 2 3 4 5 6 7 8 9 10	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6 7 8 9 10	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6 7 8	ON 1 2 3 4	ON OFF
PFFY-WL25VEM-A	ON 1 2 3 4 5 6 7 8 9 10	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6 7 8 9 10	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6 7 8	ON 1 2 3 4	ON OFF
PFFY-WL32VEM-A	ON 1 2 3 4 5 6 7 8 9 10	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6 7 8 9 10	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6 7 8	ON 1 2 3 4	ON OFF
PFFY-WL40VEM-A	ON 1 2 3 4 5 6 7 8 9 10	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6 7 8 9 10	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6 7 8	ON 1 2 3 4	ON OFF
PFFY-WL50VEM-A	ON 1 2 3 4 5 6 7 8 9 10	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6 7 8 9 10	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6 7 8	ON 1 2 3 4	ON OFF

*Optional parts
When attaching VALVE KIT (option), remove the jumper connector CN8A and fit the FLOW CONTROL VALVE (FCV).

5-1. Sound levels

PFFY-WL-VEM-A



Sound level at anechoic room: Low-Mid-High

	Sound level dB (A)
PFFY-WL20VEM-A	23.0-27.0-31.0
PFFY-WL25VEM-A	25.0-31.0-36.0
PFFY-WL32VEM-A	29.0-33.0-37.0
PFFY-WL40VEM-A	29.0-33.0-36.0
PFFY-WL50VEM-A	35.0-40.0-43.0

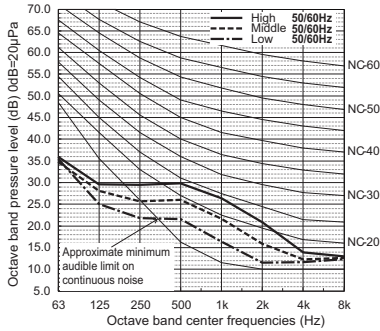
* Measured in anechoic room

5-2. NC curves

PFFY-WL20VEM-A

External Static Pressure: 0Pa [0.00in.WG]

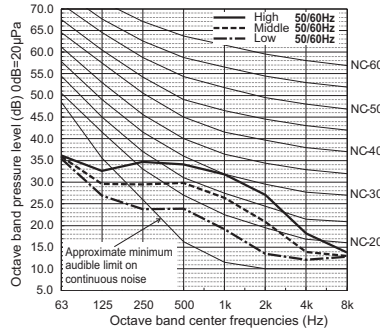
Power Source: 220-240V



PFFY-WL25VEM-A

External Static Pressure: 0Pa [0.00in.WG]

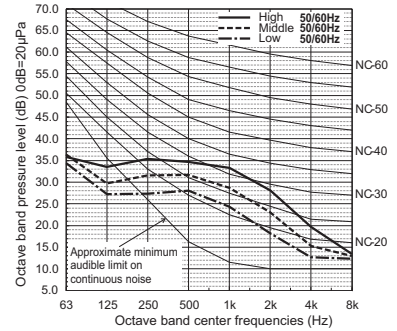
Power Source: 220-240V



PFFY-WL32VEM-A

External Static Pressure: 0Pa [0.00in.WG]

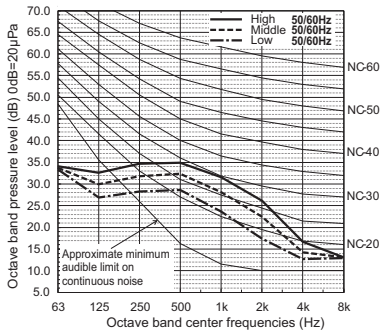
Power Source: 220-240V



PFFY-WL40VEM-A

External Static Pressure: 0Pa [0.00in.WG]

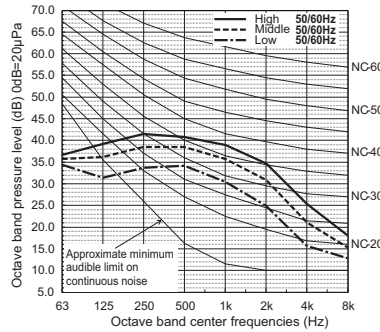
Power Source: 220-240V



PFFY-WL50VEM-A

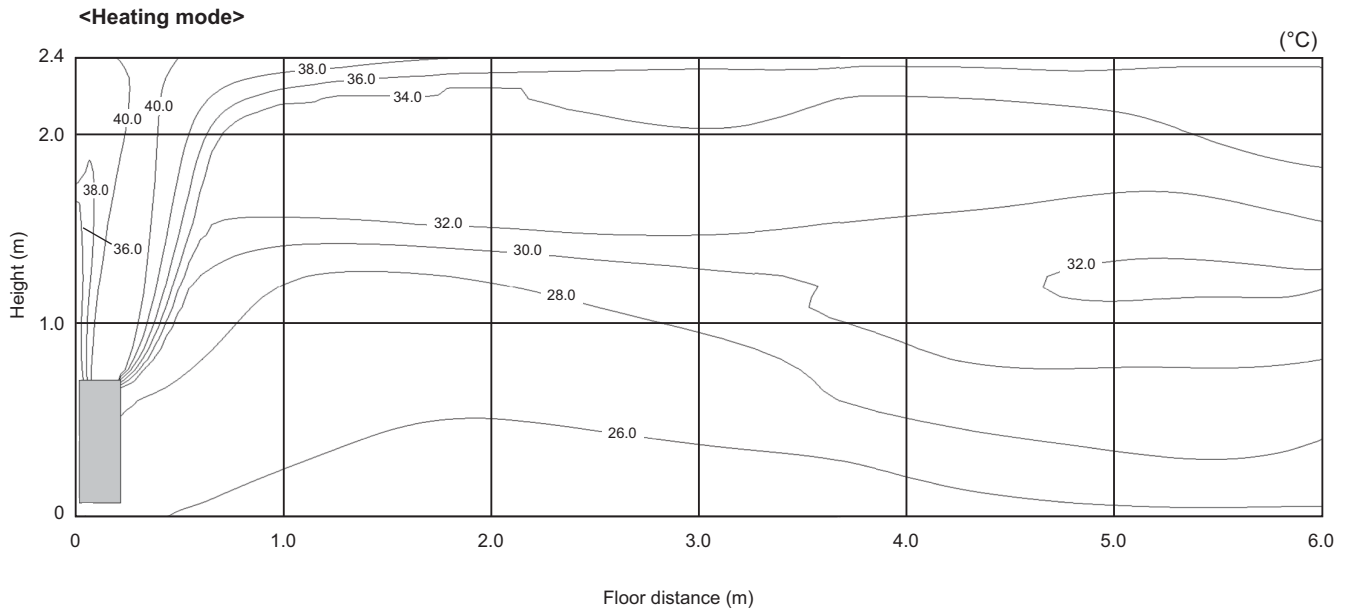
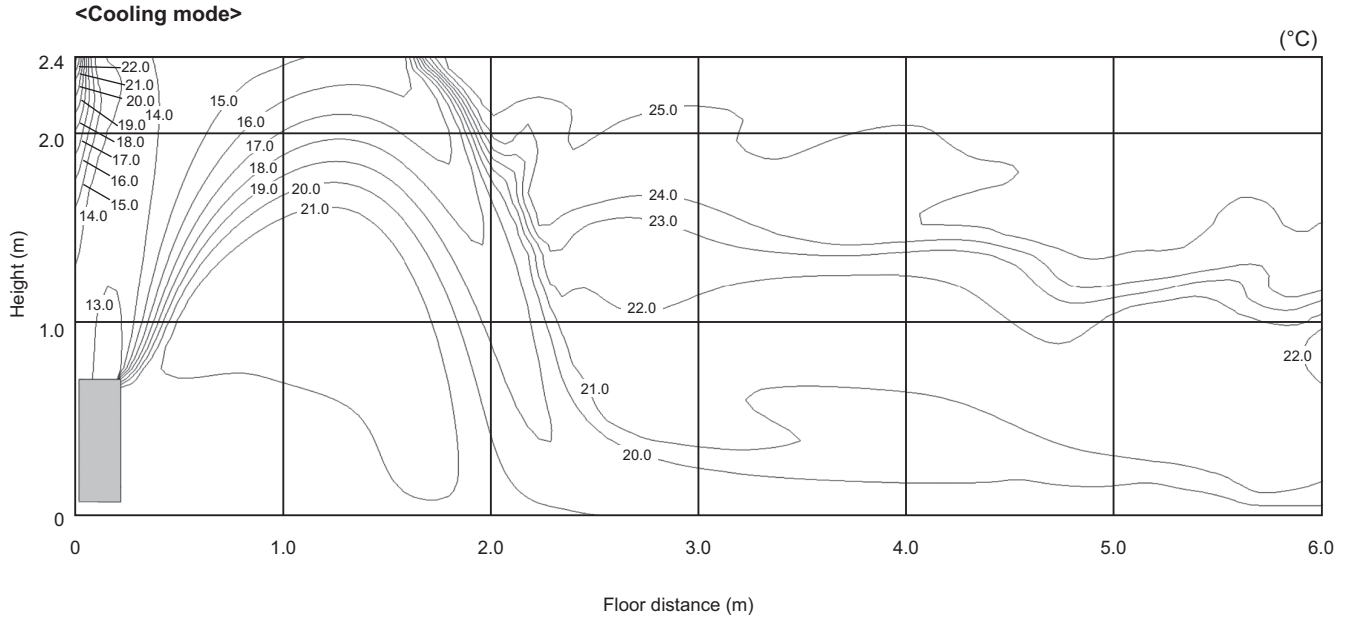
External Static Pressure: 0Pa [0.00in.WG]

Power Source: 220-240V



6-1. Temperature distributions

PFFY-WL20-50VEM-A

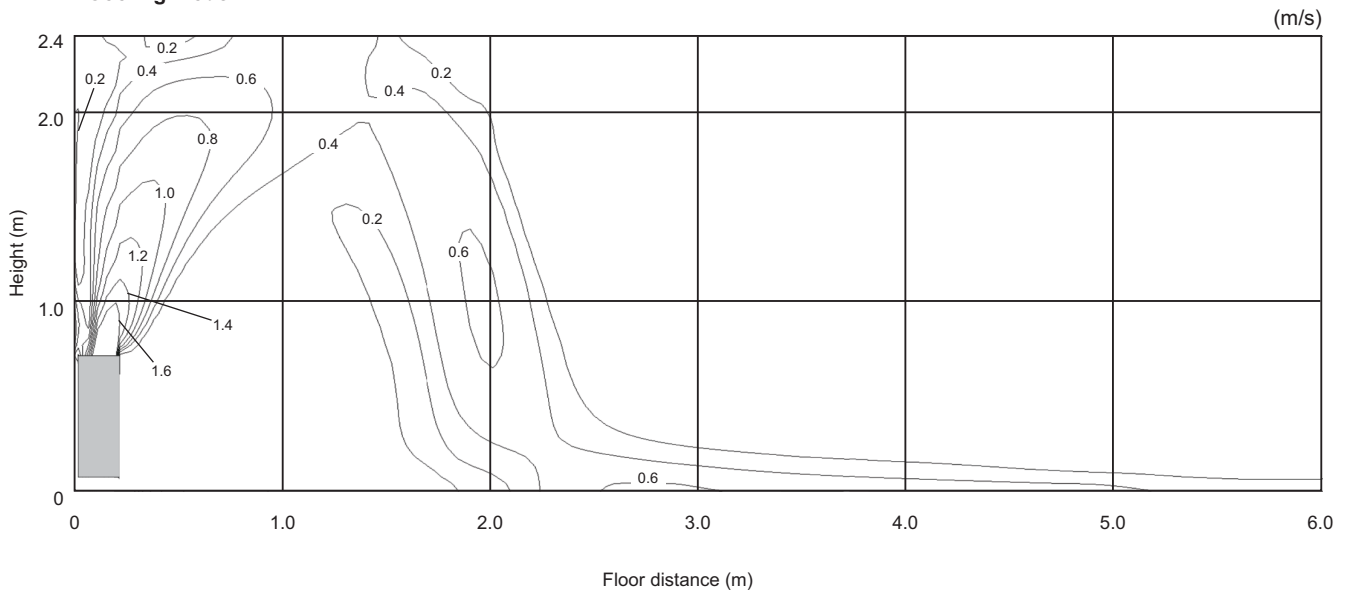


Note : These figures show typical temperature distributions in the conditions above. In the actual installation, the actual temperature distribution may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

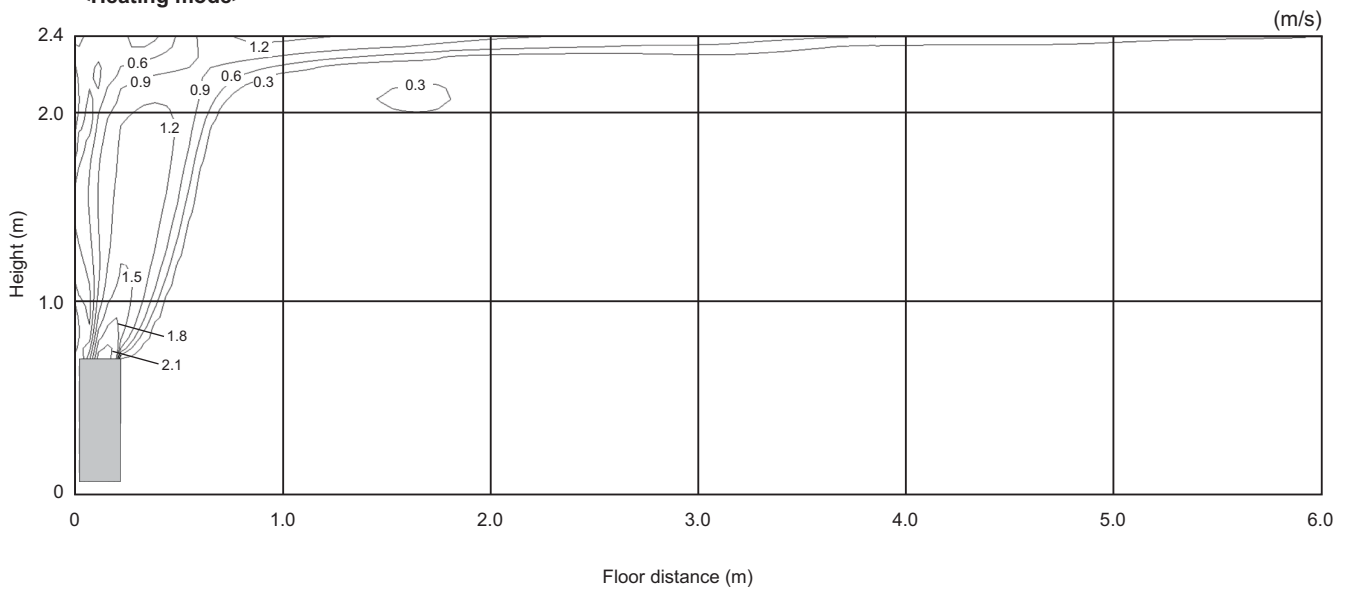
6-2. Airflow distributions

PFFY-WL20-50VEM-A

<Cooling mode>



<Heating mode>



Note : These figures show typical airflow distributions in the conditions above. In the actual installation, the actual airflow distribution may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

7. ELECTRICAL CHARACTERISTICS

Floor standing (Exposed type)

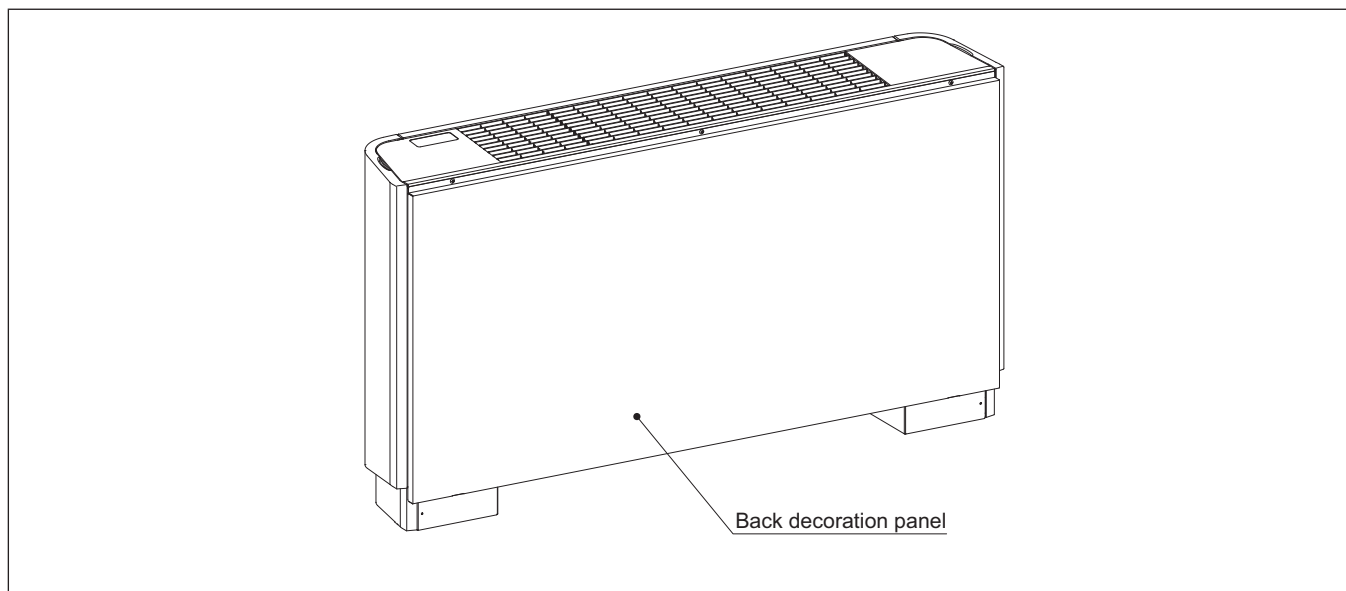
Symbols: MCA (Max.Circuit Amps =1.25xFLA), FLA (Full Load Amps)
IFM (Indoor Fan Motor), Output (Fan motor rated output)

Model	Power supply			IFM	
	Volts/Hz	Range +-10%	MCA (A)	Output (kW)	FLA (A)
PFFY-WL20VEM-A	220-240V/50Hz 220-240V/60Hz	Max.: 264V Min.: 198V	0.42	0.096	0.33
PFFY-WL25VEM-A			0.54	0.096	0.43
PFFY-WL32VEM-A			0.62	0.096	0.49
PFFY-WL40VEM-A			0.65	0.096	0.52
PFFY-WL50VEM-A			0.85	0.096	0.68

PFFY-WL-VEM-A

8-1. Optional parts line up for the Indoor unit

	Description	Model
PFFY-WL20, 25, 32VEM-A	Back decoration panel	PAC-BP32VEM-E
PFFY-WL40, 50VEM-A		PAC-BP50VEM-E
PFFY-WL-VEM-A		PAC-SK35VK-E
	Valve kit	PAC-SK39AP-E
	Attachment plate	PAC-SK40LW-E
	6m Lead wire	



8-2. Back decoration panel

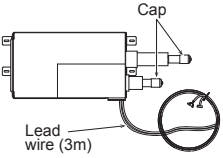
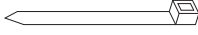
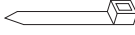

Item	Shape	Quantity	Model name
Back decoration panel		a × b	-
		1098 × 641	1
		1298 × 641	1
		1498 × 641	1
Attachment		2	PAC-BP32*50*63VEM-E *1
Screw (4x10)		5	PAC-BP32*50*63VEM-E *1
Installation manual		1	-

Detailed installation information should be referred to its Installation Manual.

*1 PAC-BP63VEM-E is used for PFFY-P-VEM-E model only.

8-3. Valve kit

Valve kit is necessary for using HVRF-Y system
 In an HVRF-R2 system, if a valve kit is connected to any of the WL indoor units, all other indoor units must also have a valve.
 The table below summarizes the connectability of different combinations of indoor units.

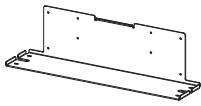
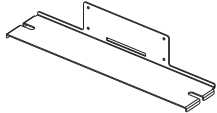
Item	VALVE KIT	Band (large)	Band (small)	Screw
Quantity	1	1	1	8
Shape				

Outdoor Unit	Indoor Unit			Connection
	A	B	C	
HVRF-R2 System	WLV	WLV	-	Connectable
	WLV	W	-	Connectable
	WLV	WL	-	Not connectable
	WLV	WP	-	Not connectable
	WLV	WL	W	Not connectable
	WLV	WL	WP	Not connectable
	WLV	W	WP	Not connectable
	WL	WL	-	Connectable
	WL	WP	-	Connectable
	WL	W	-	Not connectable
	WL	WP	W	Not connectable
	W	WP	-	Not connectable

WLV = (E)WL-Type (With an optional valve kit)
 WL = (E)WL-Type (Without an optional valve kit)
 WP = WP-Type (Without a built-in valve and not compatible with the optional valve kit)
 W = W-Type (With a built-in valve)

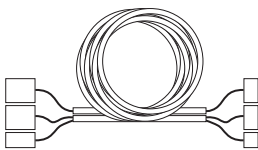
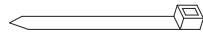
8-4. Attachment plate

When installing the valve kit on the ceiling plate or hanging it from the ceiling, the use of an attachment plate (PAC-SK39AP-E) is recommended.

Item	Attachment-1	Attachment-2
Quantity	1	1
Shape		

8-5. 6m Lead wire

The lead wire attached to the valve kit is 3 meters. If a longer lead wire is needed, use an optional part PAC-SK40LW-E (6m). Note that the maximum allowable piping distance between the valve kit and the indoor unit is 5 meters.

Item	Lead wire (6m)	Band (large)
Quantity	1	
Shape		

⚠ Warning

- Do not use refrigerant other than the type indicated in the manuals provided with the unit and on the nameplate.
 - Doing so may cause the unit or pipes to burst, or result in explosion or fire during use, repair, or at the time of disposal of the unit.
 - It may also be in violation of applicable laws.
 - MITSUBISHI ELECTRIC CORPORATION cannot be held responsible for malfunctions or accidents resulting from the use of the wrong type of refrigerant.
- Our air conditioning equipment and heat pumps contain a fluorinated greenhouse gas, R410A/R32.

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