MITSUBISHI ELECTRIC

*Changes for the Better*

AIR CONDITIONING SYSTEMS

HYBRID CITY MULTI

# DATA BOOK

MODEL

## PFFY-WL-VCM-A

# CONTENTS

## PFFY-WL-VCM-A

# 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.<br>* 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.<br>* 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

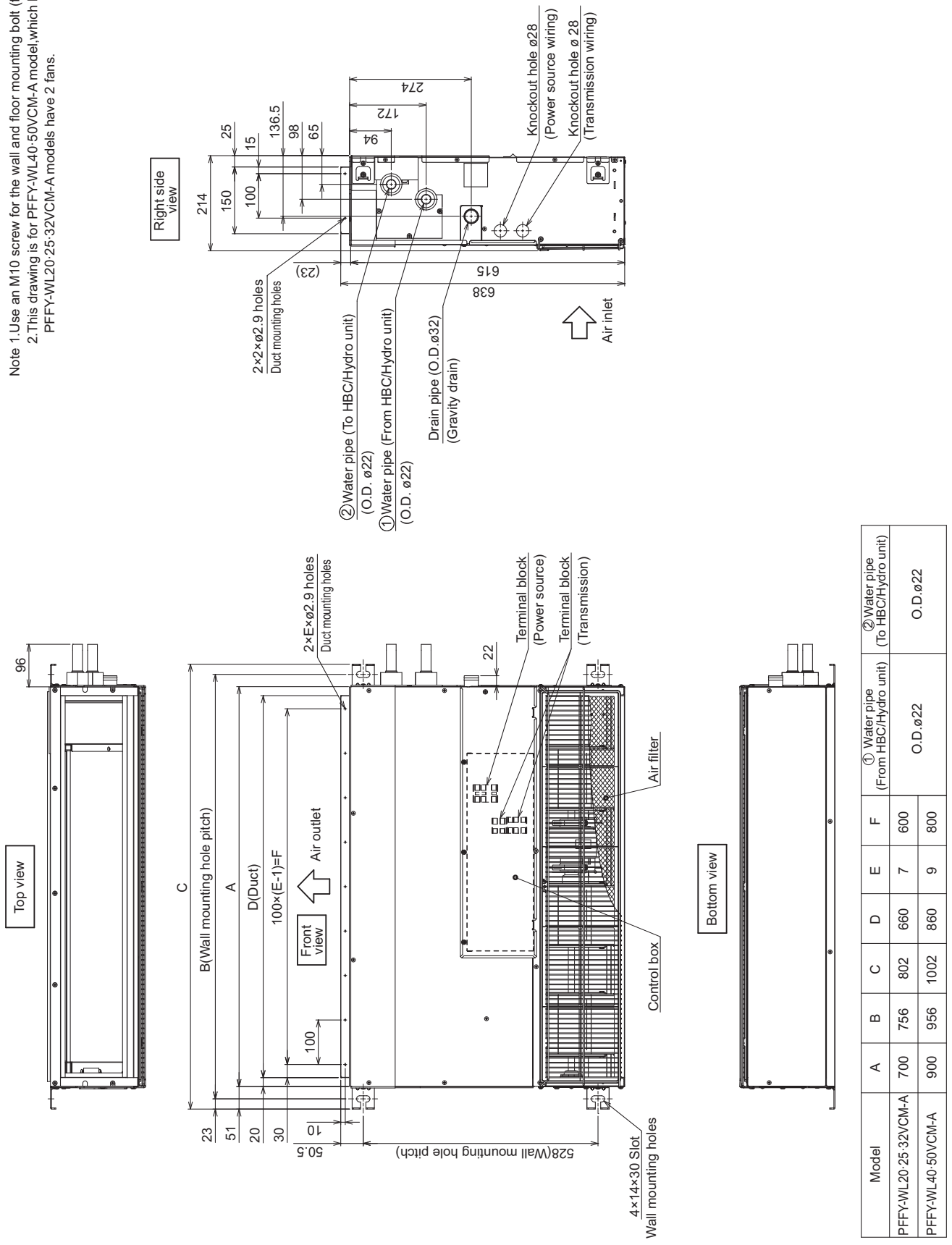
| | |
|---|---|
| BTU/h | =kW x 3,412 |
| cfm | =$m^3$/min x 35.31 |
| lbs | =kg/0.4536 |

*Above specification data is subject to rounding variation.

## PFFY-WL20, 25, 32, 40, 50VCM-A - front suction - 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-WL40·50VCM-A model,which have 3 fans.
PFFY-WL20·25·32VCM-A models have 2 fans.



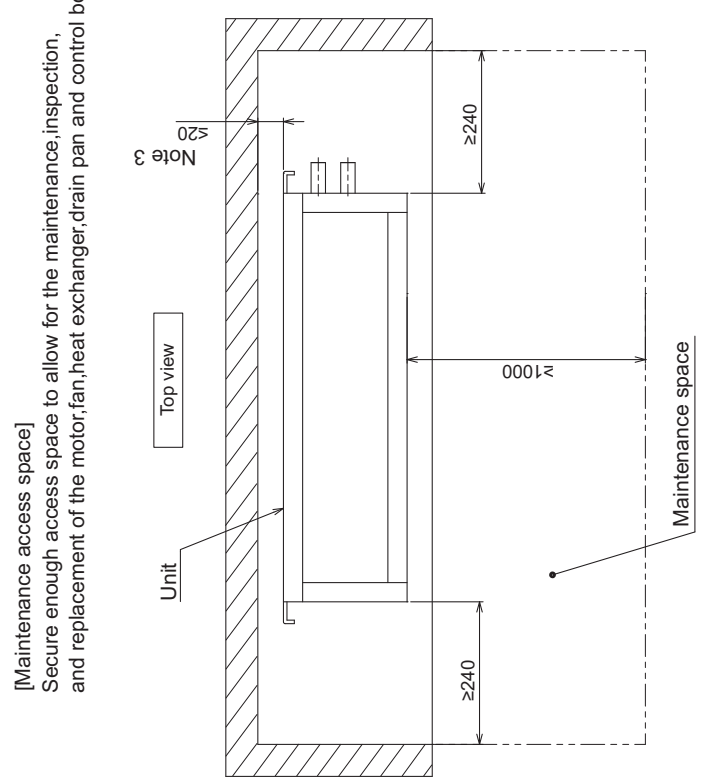

| Model | A | B | C | D | E | F | ① Water pipe (From HBC/Hydro unit) | ②Water pipe (To HBC/Hydro unit) |
|---|---|---|---|---|---|---|---|---|
| PFFY-WL20·25·32VCM-A | 700 | 756 | 802 | 660 | 7 | 600 | O.D.ø22 | O.D.ø22 |
| PFFY-WL40·50VCM-A | 900 | 956 | 1002 | 860 | 9 | 800 | | |

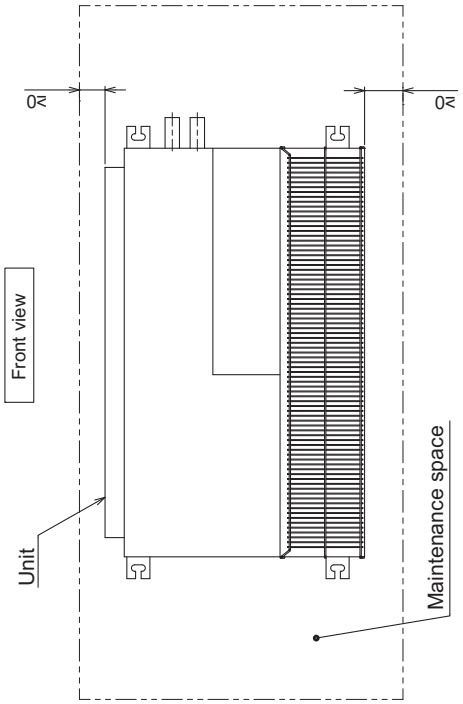
## PFFY-WL20, 25, 32, 40, 50VCM-A - front suction - wall mounting

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.

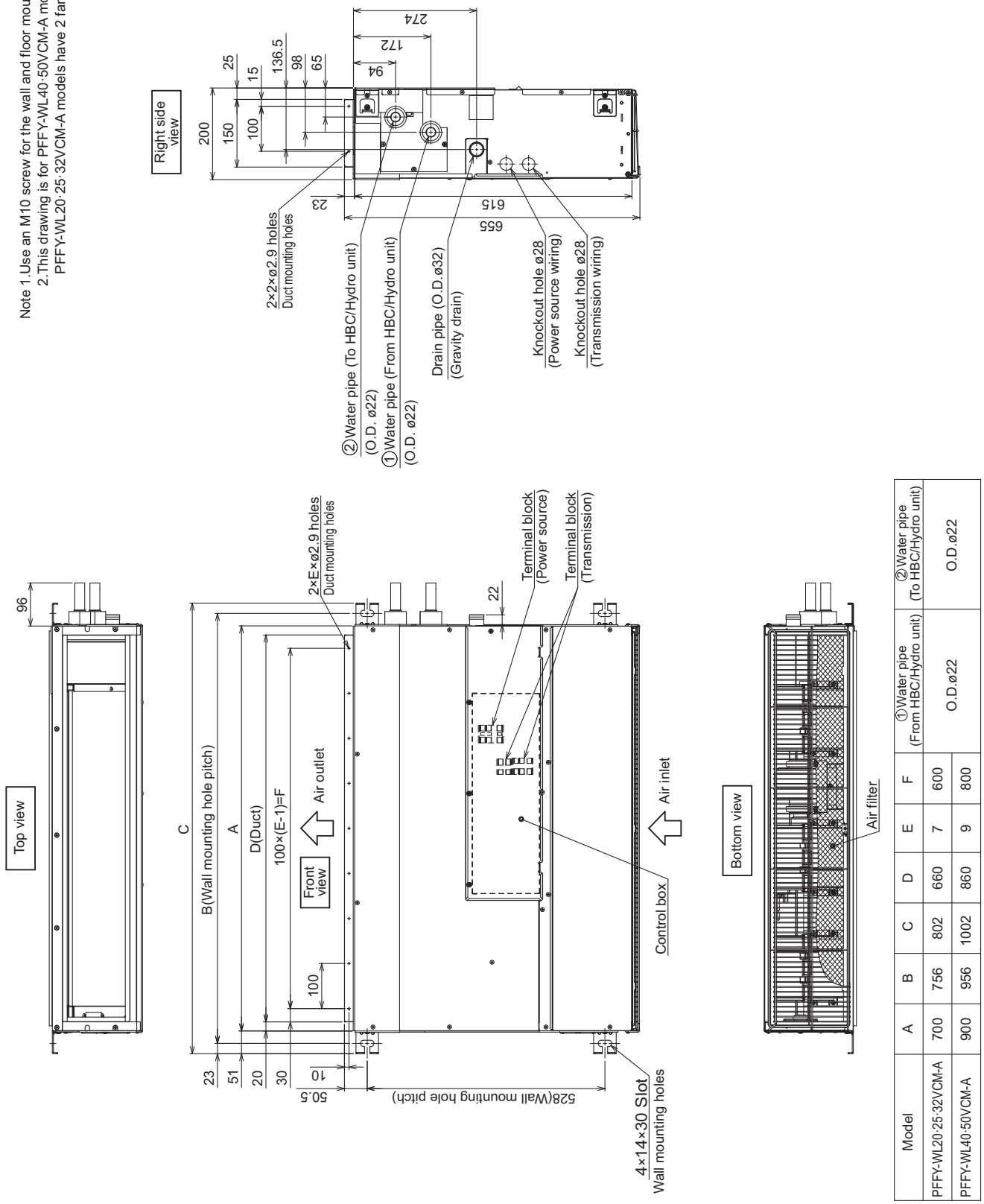


## PFFY-WL20, 25, 32, 40, 50VCM-A - bottom suction - wall mounting

Unit: mm

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



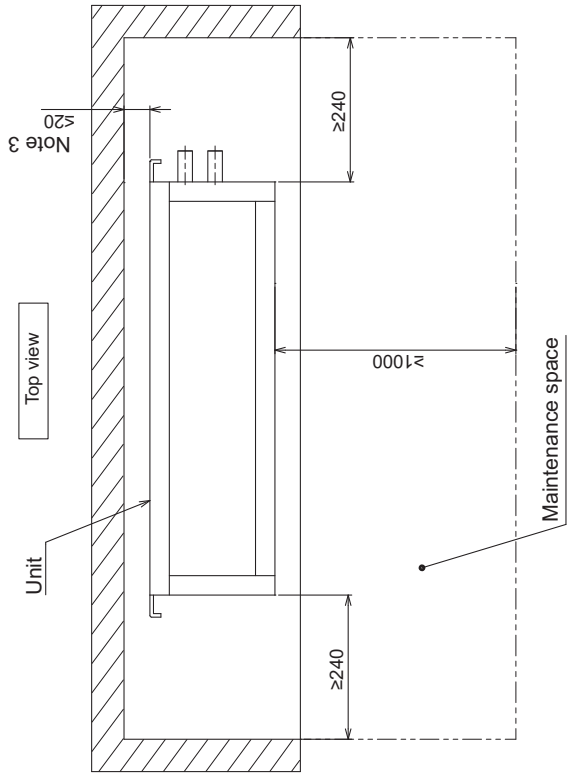

| Model | A | B | C | D | E | F | ①Water pipe (From HBC/Hydro unit) | ②Water pipe (To HBC/Hydro unit) |
|---|---|---|---|---|---|---|---|---|
| PFFY-WL20·25·32VCM-A | 700 | 756 | 802 | 660 | 7 | 600 | O.D.ø22 | O.D.ø22 |
| PFFY-WL40·50VCM-A | 900 | 956 | 1002 | 860 | 9 | 800 | | |

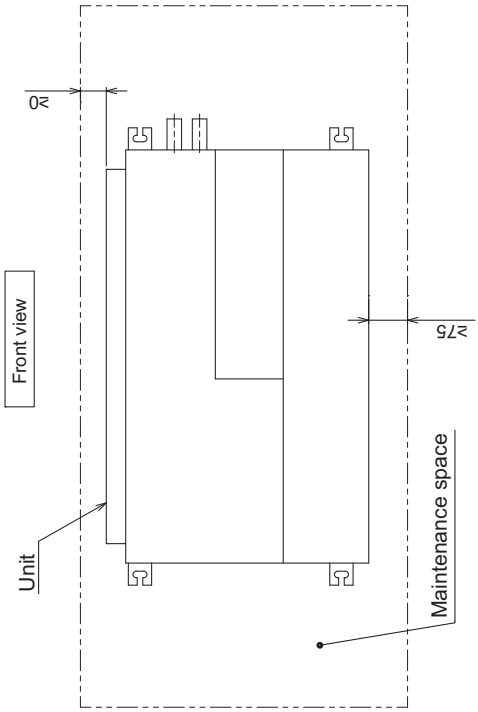
## PFFY-WL20, 25, 32, 40, 50VCM-A - bottom suction - wall mounting

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.

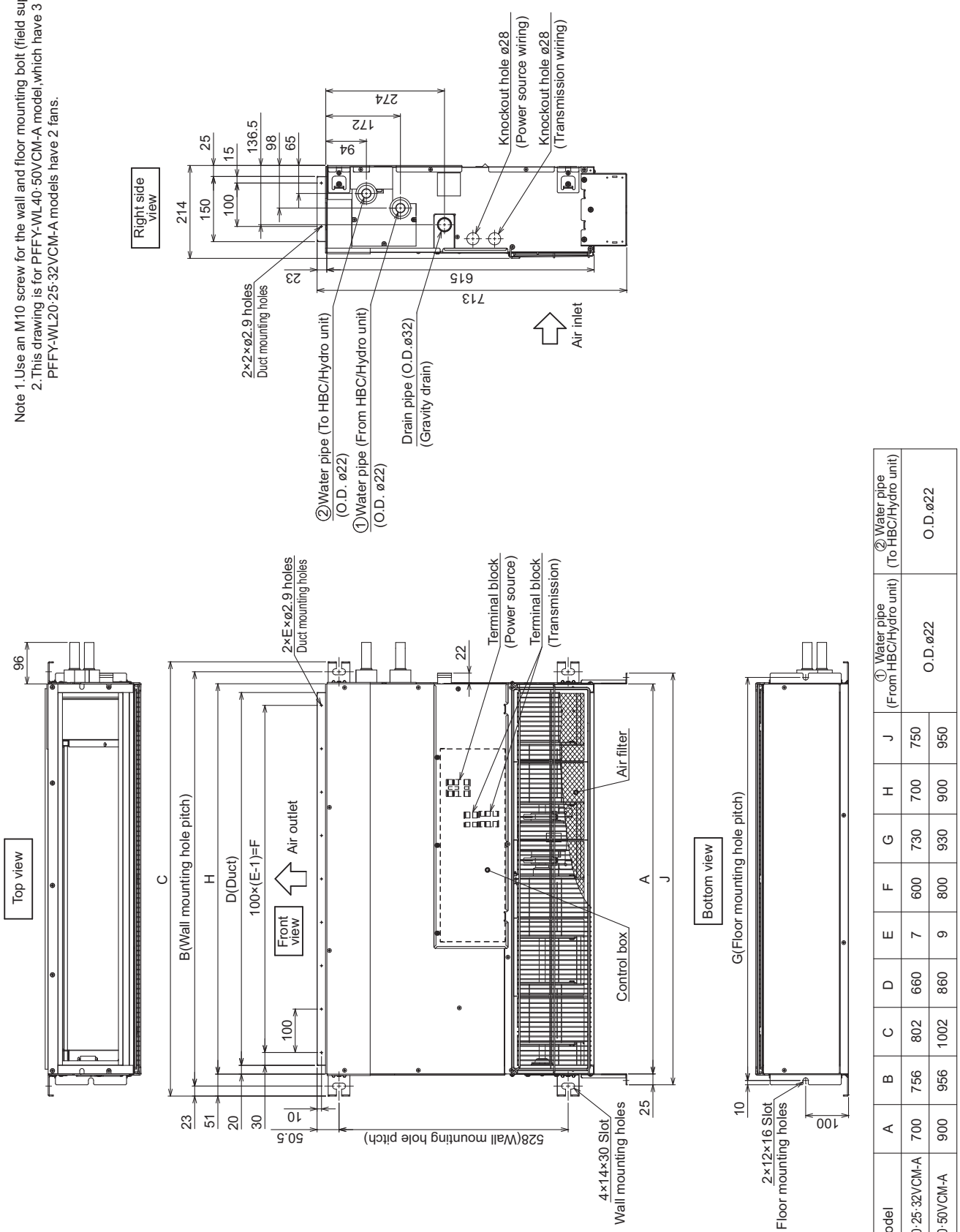


## PFFY-WL20, 25, 32, 40, 50VCM-A - front suction - floor mounting

Unit: mm

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



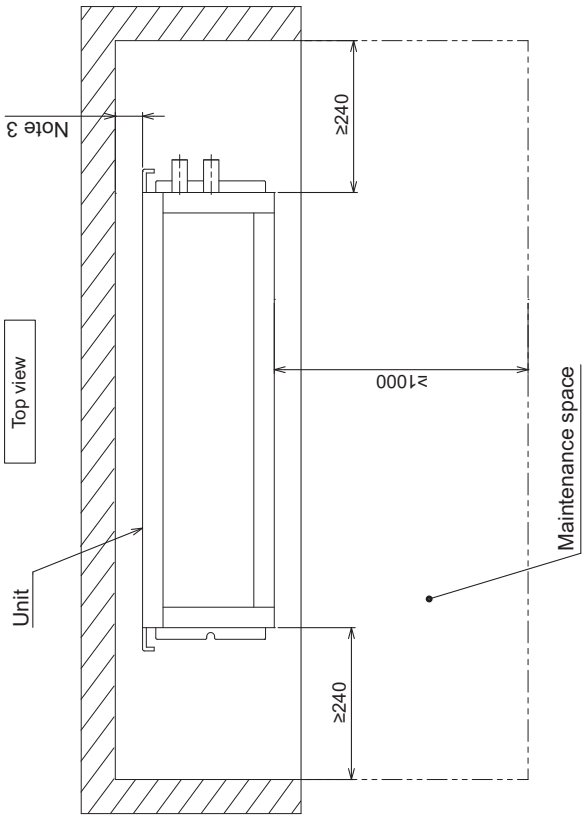

| Model | A | B | C | D | E | F | G | H | J | ① Water pipe (From HBC/Hydro unit) | ② Water pipe (To HBC/Hydro unit) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PFFY-WL20·25·32VCM-A | 700 | 756 | 802 | 660 | 7 | 600 | 730 | 700 | 750 | O.D.ø22 | O.D.ø22 |
| PFFY-WL40·50VCM-A | 900 | 956 | 1002 | 860 | 9 | 800 | 930 | 900 | 950 | | |

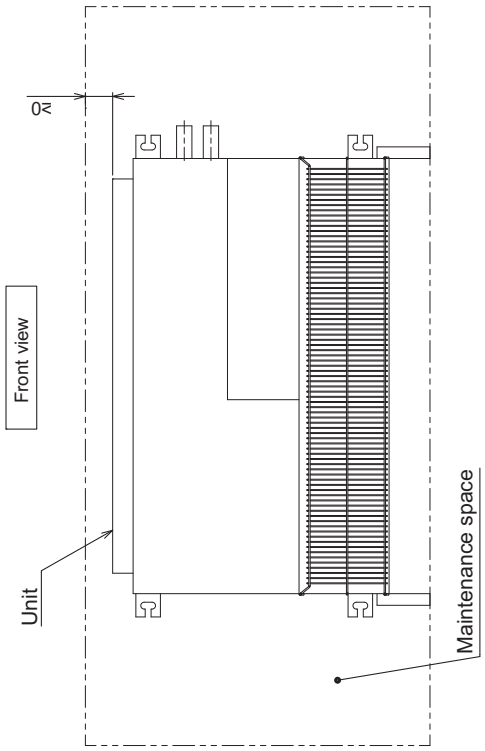
## PFFY-WL20, 25, 32, 40, 50VCM-A - front suction - floor mounting

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.

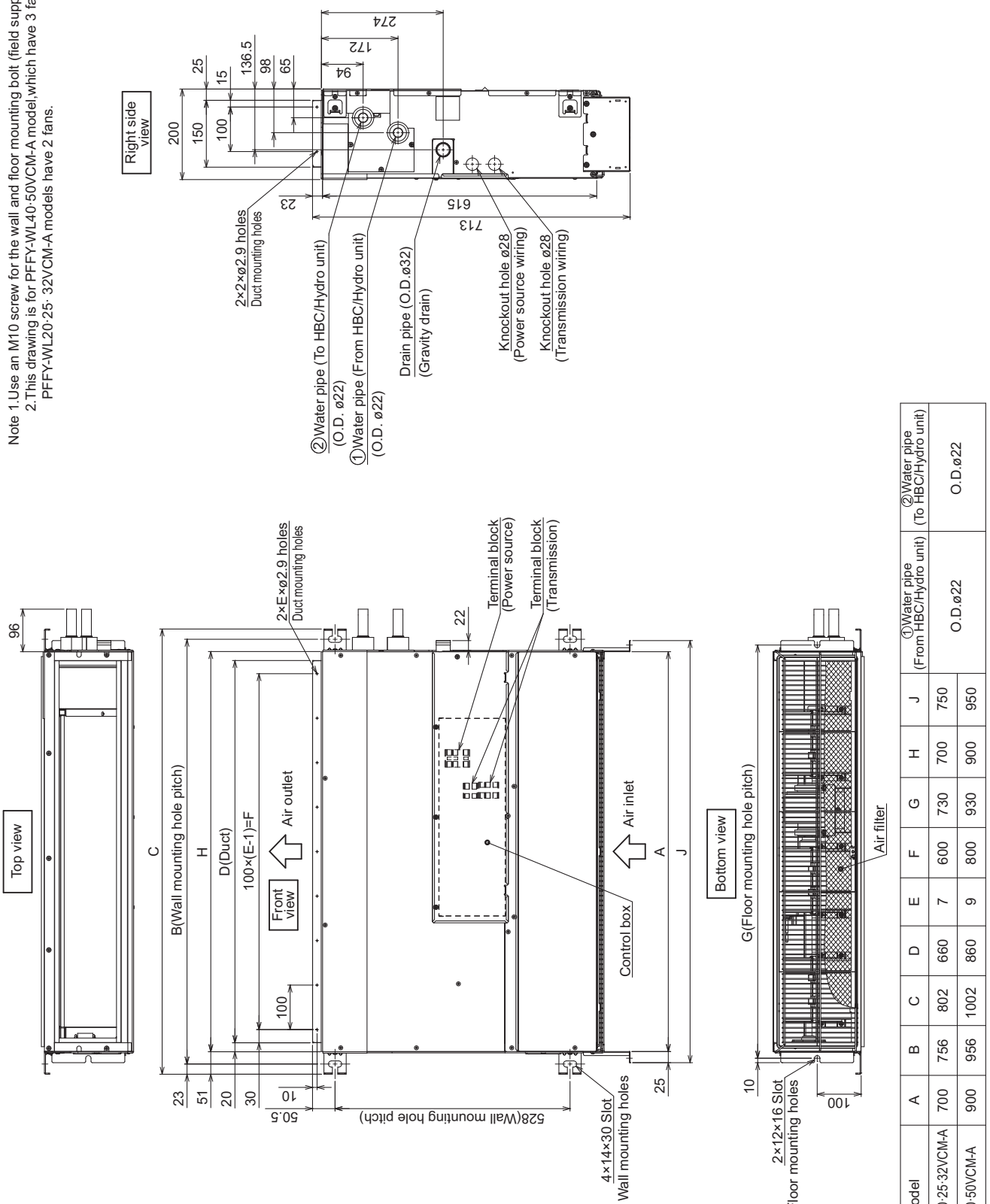


## PFFY-WL20, 25, 32, 40, 50VCM-A - bottom suction - floor mounting

Unit: mm

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



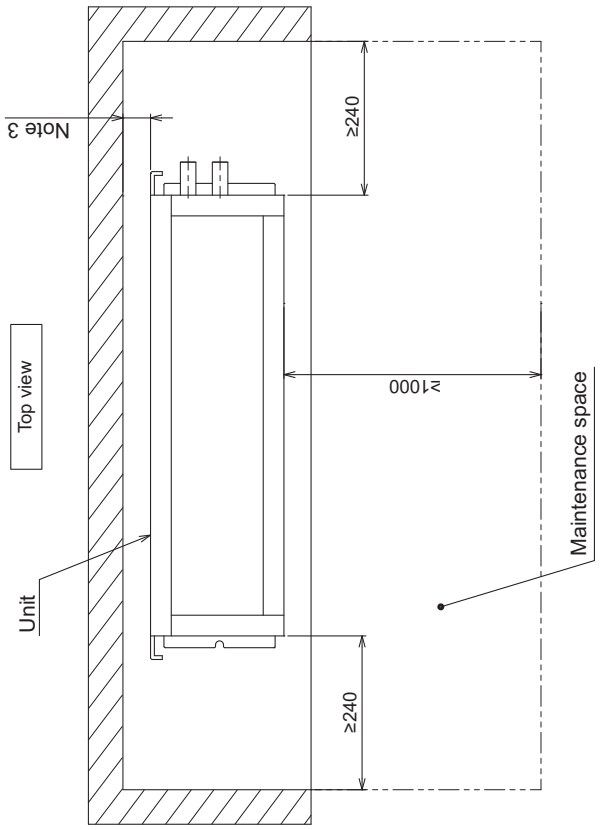

| Model | A | B | C | D | E | F | G | H | J | ①Water pipe (From HBC/Hydro unit) | ②Water pipe (To HBC/Hydro unit) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PFFY-WL20·25·32VCM-A | 700 | 756 | 802 | 660 | 7 | 600 | 730 | 700 | 750 | O.D.ø22 | O.D.ø22 |
| PFFY-WL40·50VCM-A | 900 | 956 | 1002 | 860 | 9 | 800 | 930 | 900 | 950 | | |

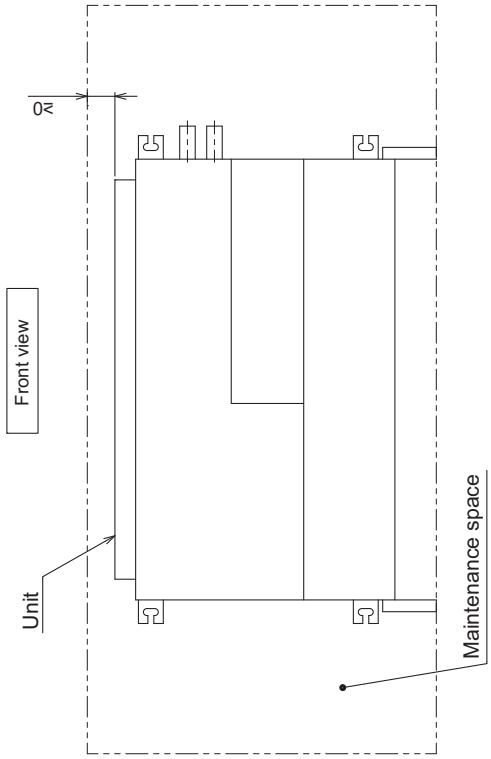
## PFFY-WL20, 25, 32, 40, 50VCM-A - bottom suction - floor mounting

Unit: mm

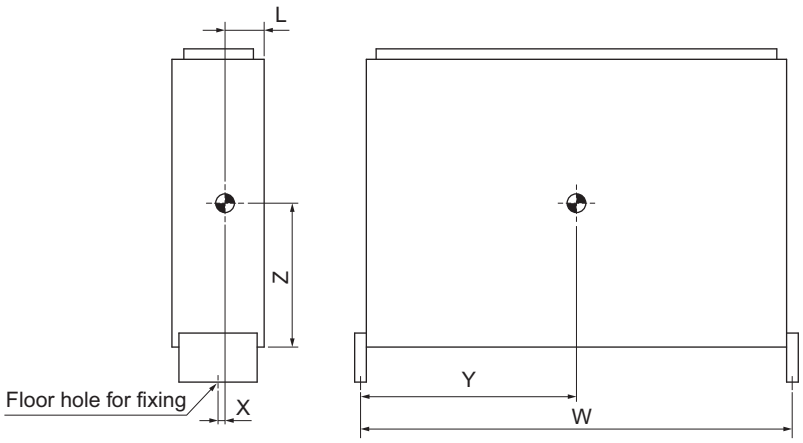
Note 3.When the unit is installed on the wall,
vibrations may be transmitted to the wall.
Take measures against vibrations as needed at the site.

[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.



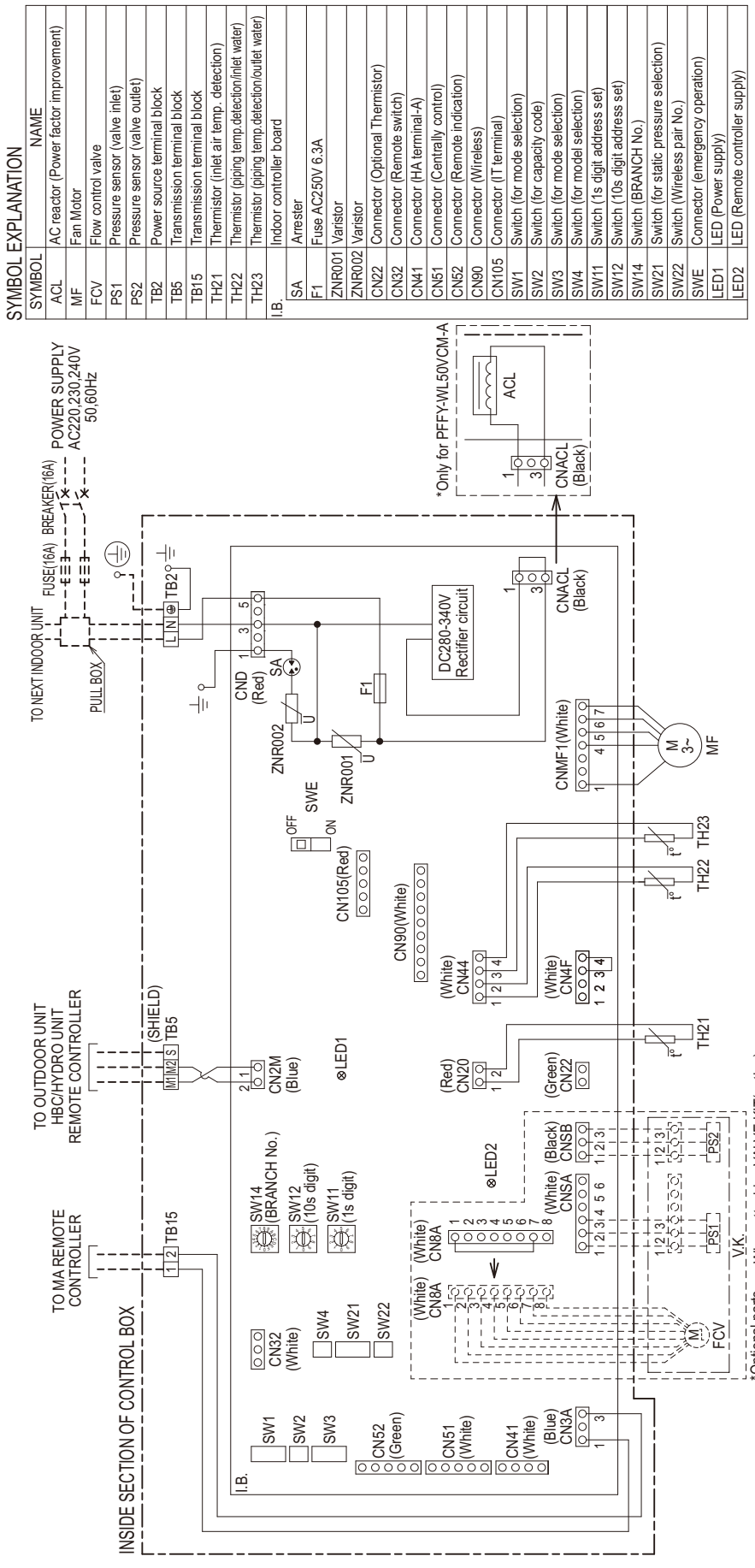
## PFFY-WL20, 25, 32, 40, 50VCM-A




(mm) [in.]

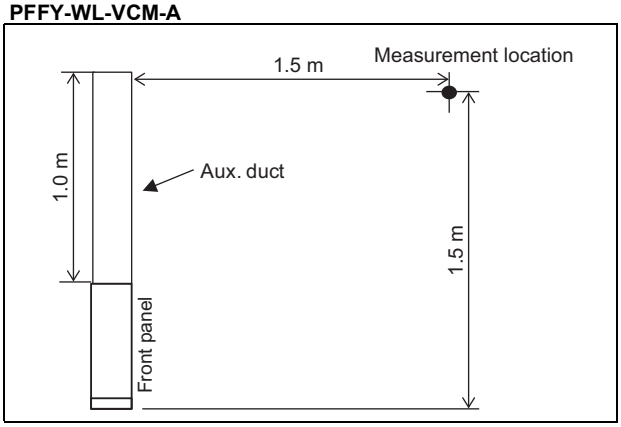
| Model name | W | L | X | Y | Z |
|---|---|---|---|---|---|
| PFFY-WL20VCM-A | 730 [28-3/4] | 95 [3-3/4] | 5 [1/4] | 365 [14-3/8] | 290 [11-7/16] |
| PFFY-WL25VCM-A | 730 [28-3/4] | 95 [3-3/4] | 5 [1/4] | 365 [14-3/8] | 290 [11-7/16] |
| PFFY-WL32VCM-A | 730 [28-3/4] | 95 [3-3/4] | 5 [1/4] | 365 [14-3/8] | 290 [11-7/16] |
| PFFY-WL40VCM-A | 930 [36-5/8] | 95 [3-3/4] | 5 [1/4] | 495 [19-1/2] | 300 [11-13/16] |
| PFFY-WL50VCM-A | 930 [36-5/8] | 95 [3-3/4] | 5 [1/4] | 495 [19-1/2] | 300 [11-13/16] |

## PFFY-WL20, 25, 32, 40, 50VCM-A



## 5-1. Sound levels

**PFFY-WL-VCM-A**




* Measured in anechoic room

Sound level at anechoic room: Low-Middle-High

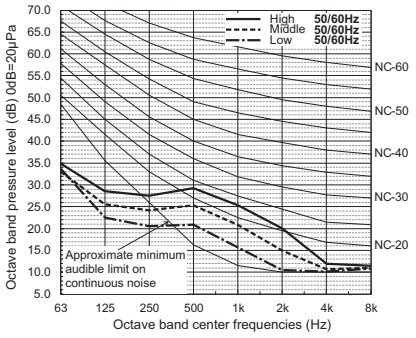
| | Sound level dB (A) | | | |
|---|---|---|---|---|
| | 0Pa | 10Pa | 40Pa | 60Pa |
| PFFY-WL20VCM-A | 22-26-30 | 21-23-26 | 22-25-29 | 24-28-32 |
| PFFY-WL25VCM-A | 25-31-36 | 22-26-30 | 24-29-34 | 25-31-36 |
| PFFY-WL32VCM-A | 29-33-38 | 25-28-32 | 28-31-36 | 29-33-37 |
| PFFY-WL40VCM-A | 26-30-33 | 25-27-30 | 27-30-34 | 28-32-35 |
| PFFY-WL50VCM-A | 33-37-41 | 28-32-35 | 30-34-38 | 31-35-39 |

* The value for the sound pressure level 0 Pa is the value when the duct is not attached.

## 5-2. NC curves

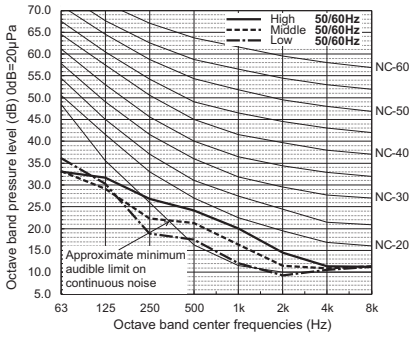
**PFFY-WL20VCM-A**

External Static Pressure: 0Pa [0.00in.WG]
Power Source: 220-240V



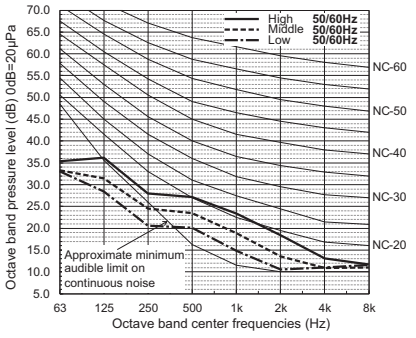

**PFFY-WL20VCM-A**

External Static Pressure: 10Pa [0.04in.WG]
Power Source: 220-240V



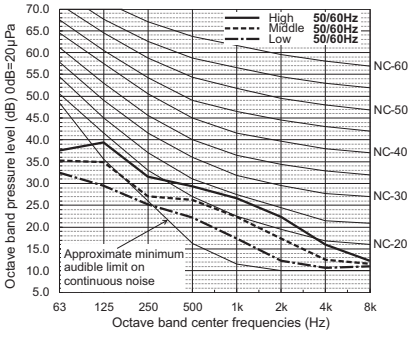

**PFFY-WL20VCM-A**

External Static Pressure: 40Pa [0.16in.WG]
Power Source: 220-240V



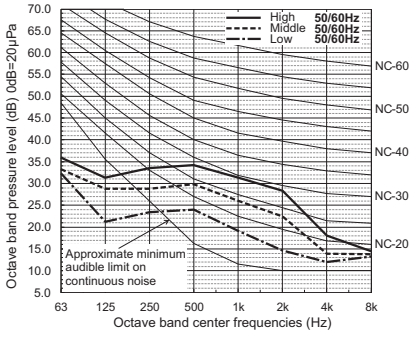

**PFFY-WL20VCM-A**

External Static Pressure: 60Pa [0.24in.WG]
Power Source: 220-240V



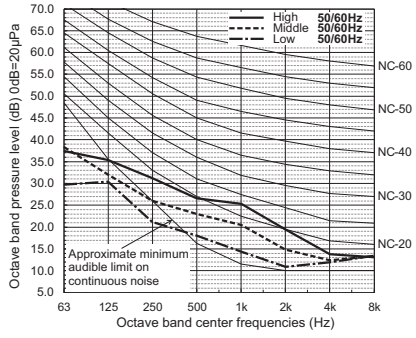

**PFFY-WL25VCM-A**

External Static Pressure: 0Pa [0.00in.WG]
Power Source: 220-240V



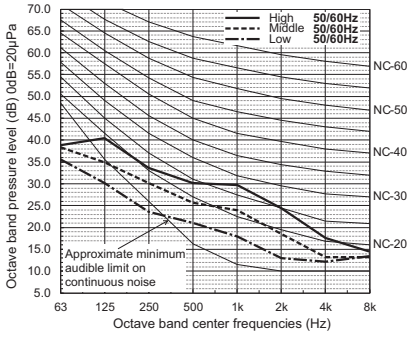

**PFFY-WL25VCM-A**

External Static Pressure: 10Pa [0.04in.WG]
Power Source: 220-240V



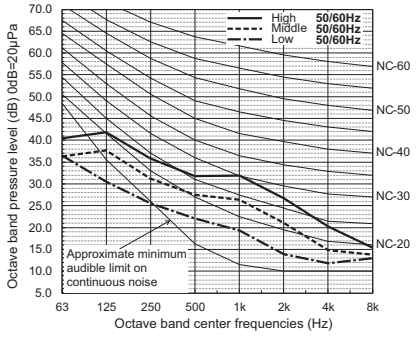

**PFFY-WL25VCM-A**

External Static Pressure: 40Pa [0.16in.WG]
Power Source: 220-240V



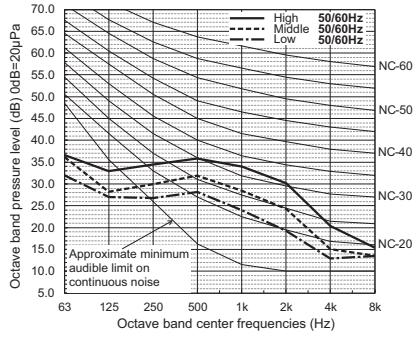

**PFFY-WL25VCM-A**

External Static Pressure: 60Pa [0.24in.WG]
Power Source: 220-240V



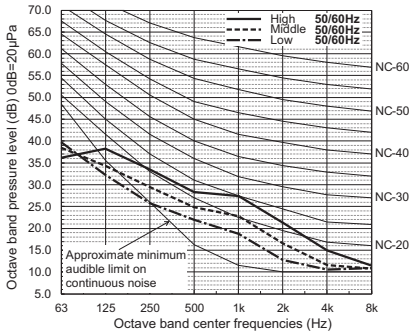

**PFFY-WL32VCM-A**

External Static Pressure: 0Pa [0.00in.WG]
Power Source: 220-240V



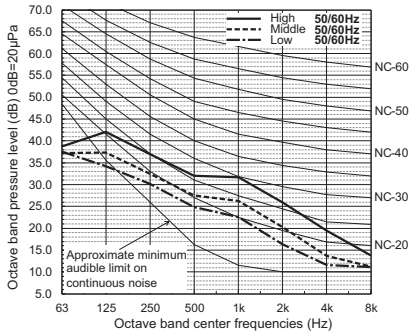
**PFFY-WL32VCM-A**

External Static Pressure: 10Pa [0.04in.WG]
Power Source: 220-240V



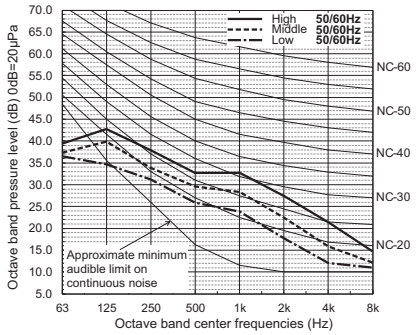

**PFFY-WL32VCM-A**

External Static Pressure: 40Pa [0.16in.WG]
Power Source: 220-240V



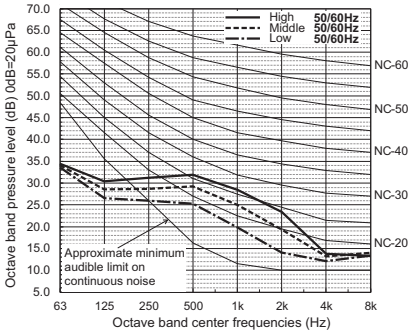

**PFFY-WL32VCM-A**

External Static Pressure: 60Pa [0.24in.WG]
Power Source: 220-240V



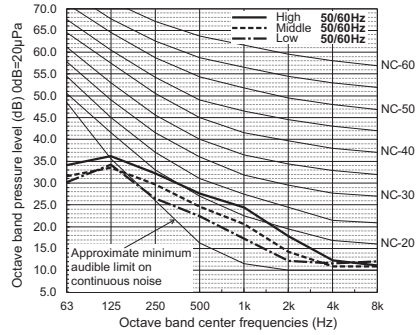

**PFFY-WL40VCM-A**

External Static Pressure: 0Pa [0.00in.WG]
Power Source: 220-240V



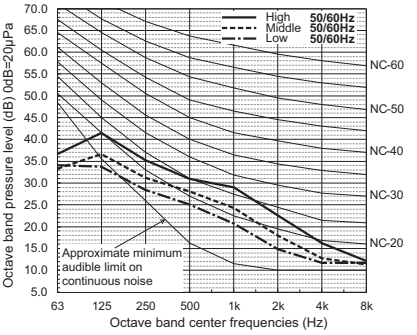

**PFFY-WL40VCM-A**

External Static Pressure: 10Pa [0.04in.WG]
Power Source: 220-240V



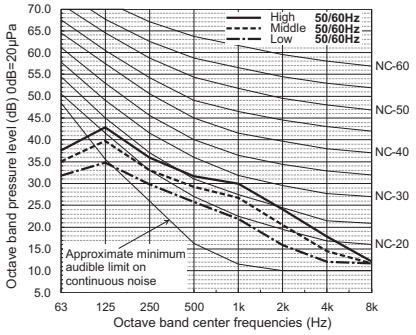

**PFFY-WL40VCM-A**

External Static Pressure: 40Pa [0.16in.WG]
Power Source: 220-240V



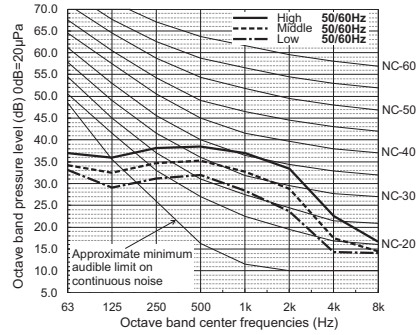

**PFFY-WL40VCM-A**

External Static Pressure: 60Pa [0.24in.WG]
Power Source: 220-240V



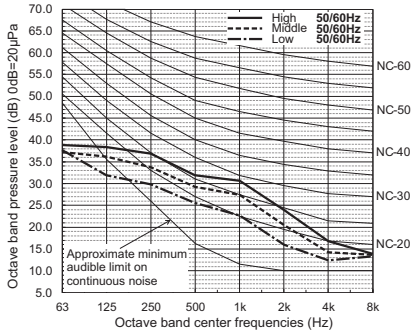

**PFFY-WL50VCM-A**

External Static Pressure: 0Pa [0.00in.WG]
Power Source: 220-240V



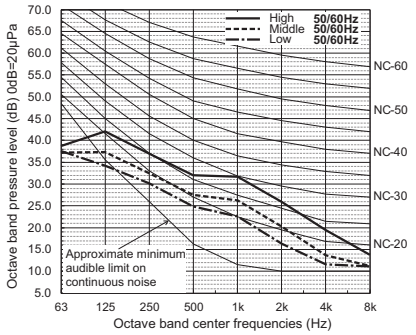

**PFFY-WL50VCM-A**

External Static Pressure: 10Pa [0.04in.WG]
Power Source: 220-240V



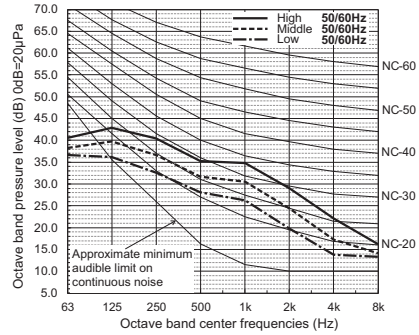

**PFFY-WL50VCM-A**

External Static Pressure: 40Pa [0.16in.WG]
Power Source: 220-240V

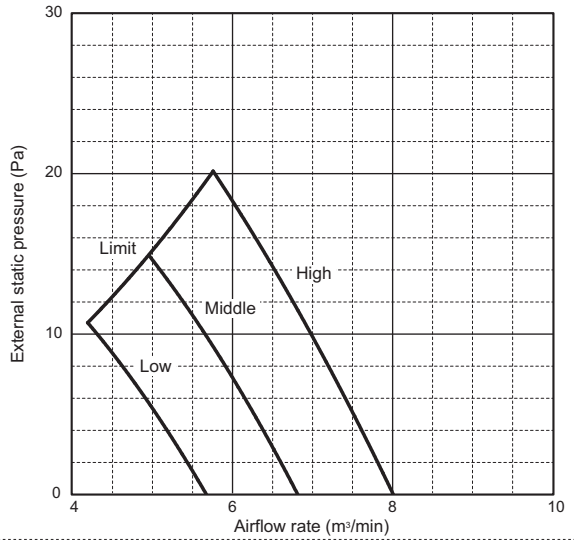



**PFFY-WL50VCM-A**

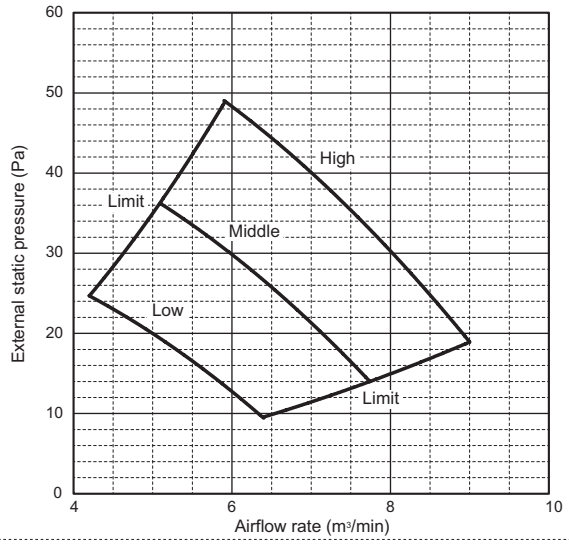
External Static Pressure: 60Pa [0.24in.WG]
Power Source: 220-240V



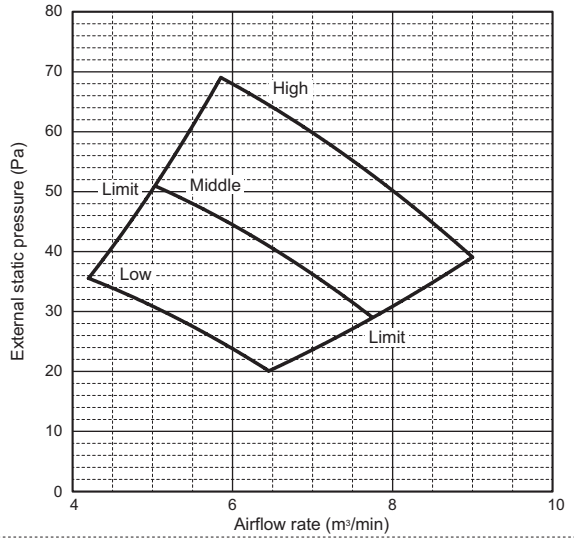
**PFFY-WL20VCM-A**
External static pressure : 10Pa
Power source : 220-240V



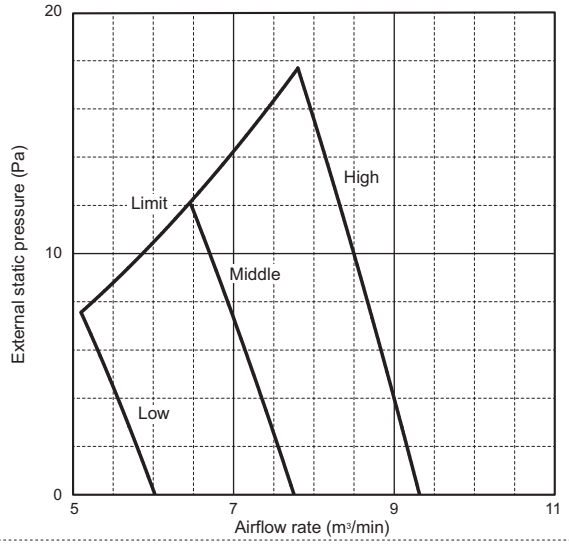

**PFFY-WL20VCM-A**
External static pressure : 40Pa
Power source : 220-240V



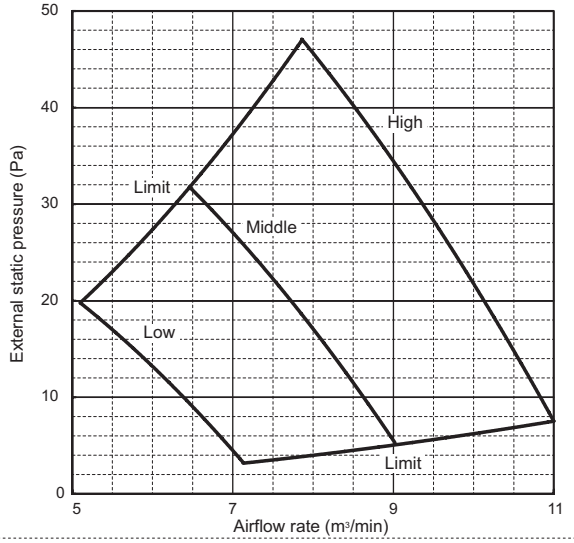

**PFFY-WL20VCM-A**
External static pressure : 60Pa
Power source : 220-240V



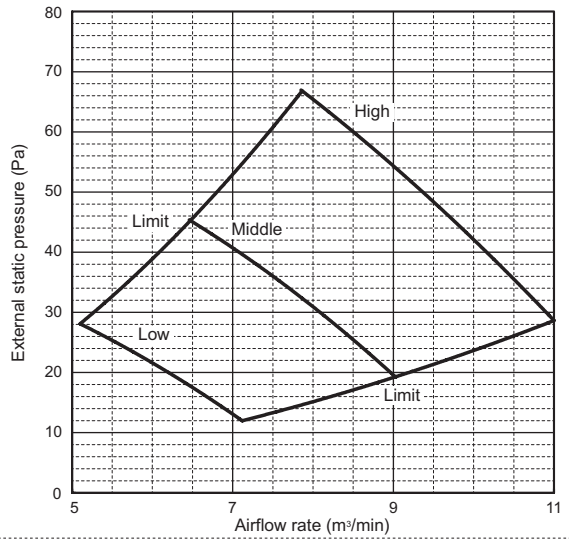

**PFFY-WL25VCM-A**
External static pressure : 10Pa
Power source : 220-240V



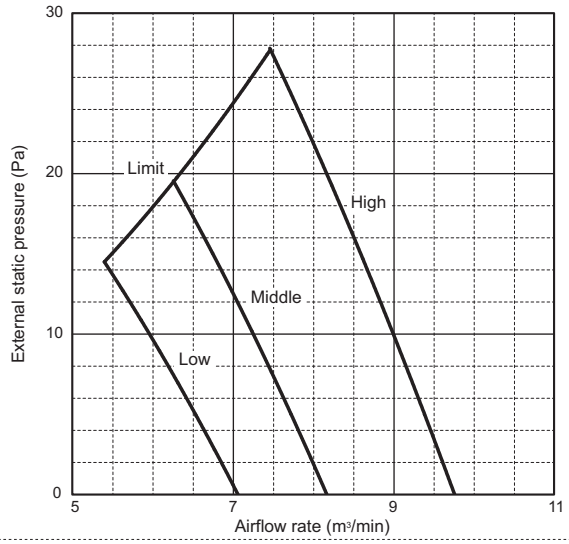

**PFFY-WL25VCM-A**
External static pressure : 40Pa
Power source : 220-240V



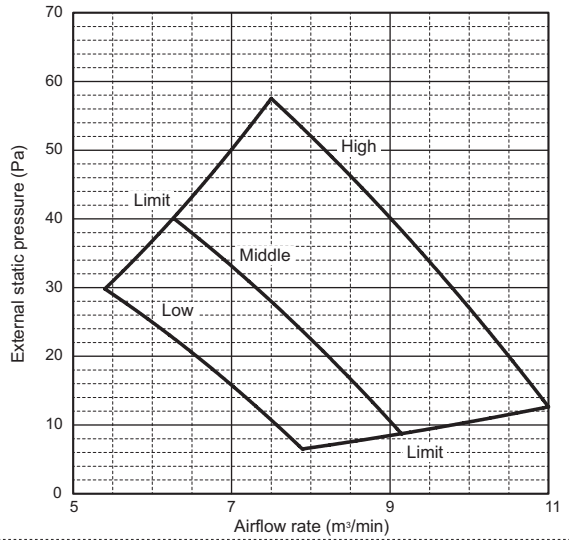

**PFFY-WL25VCM-A**
External static pressure : 60Pa
Power source : 220-240V



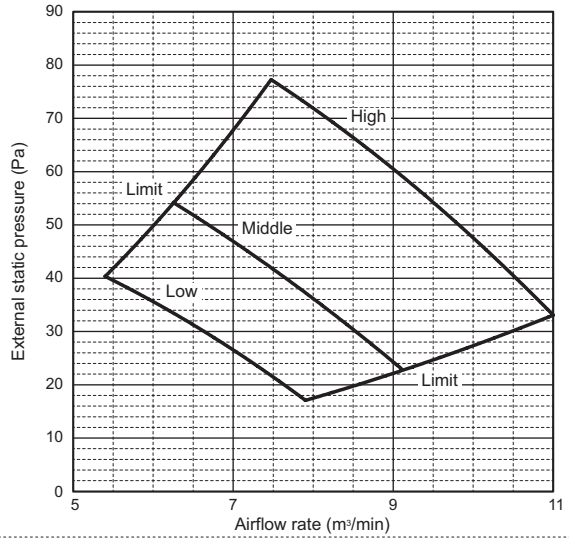
**PFFY-WL32VCM-A**
External static pressure : 10Pa
Power source : 220-240V



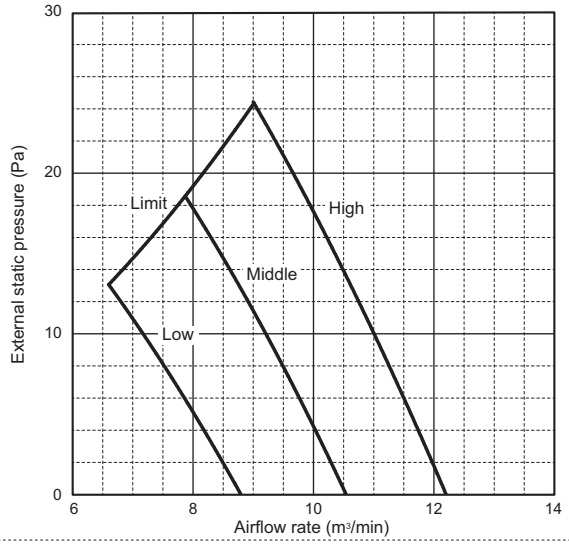

**PFFY-WL32VCM-A**
External static pressure : 40Pa
Power source : 220-240V



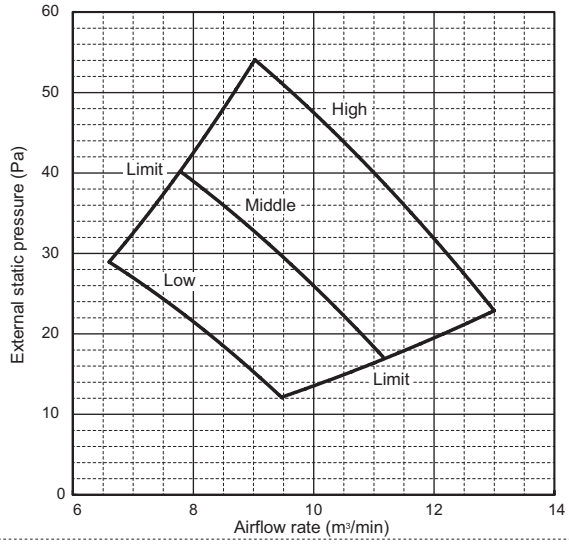

**PFFY-WL32VCM-A**
External static pressure : 60Pa
Power source : 220-240V



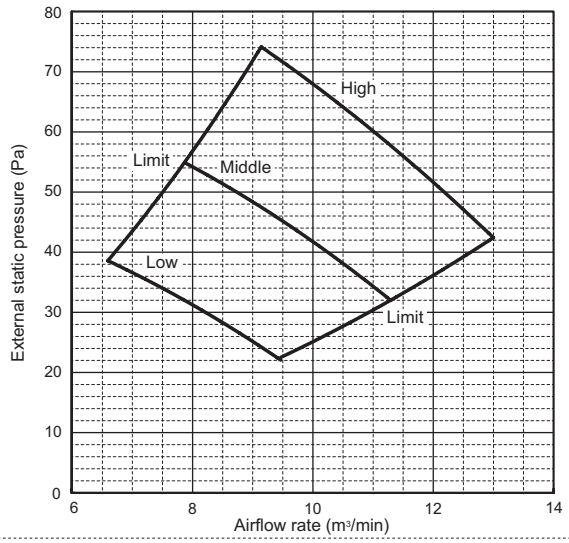

**PFFY-WL40VCM-A**
External static pressure : 10Pa
Power source : 220-240V



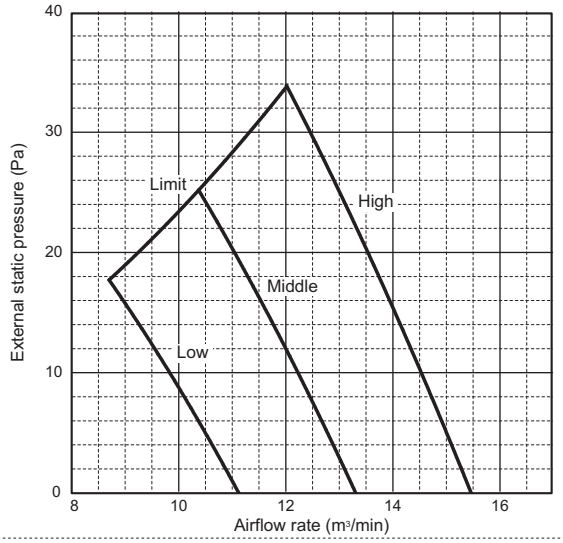

**PFFY-WL40VCM-A**
External static pressure : 40Pa
Power source : 220-240V



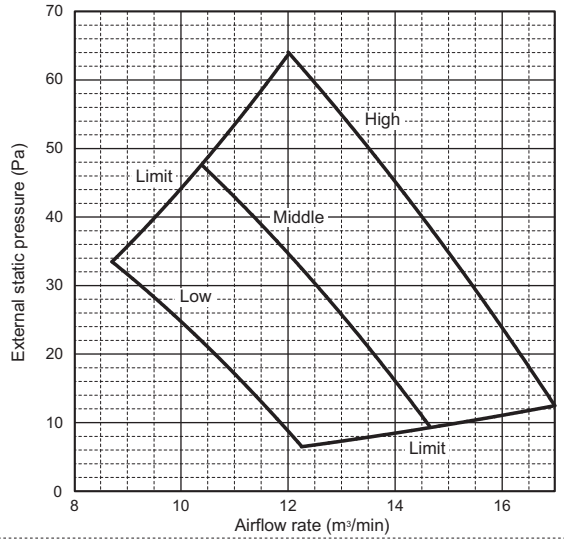

**PFFY-WL40VCM-A**
External static pressure : 60Pa
Power source : 220-240V



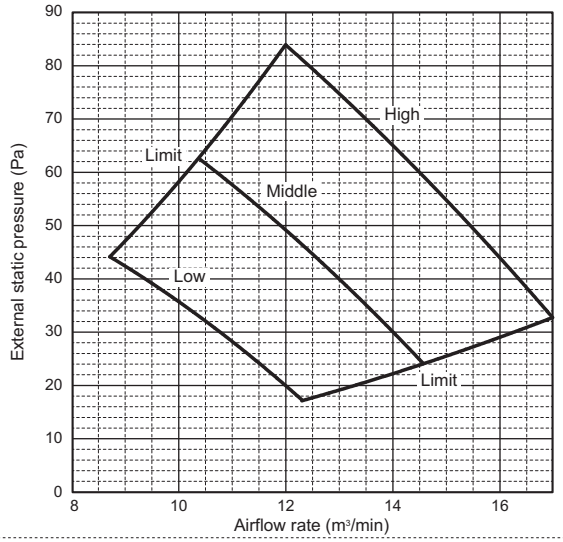
**PFFY-WL50VCM-A**
External static pressure : 10Pa
Power source : 220-240V




**PFFY-WL50VCM-A**
External static pressure : 40Pa
Power source : 220-240V




**PFFY-WL50VCM-A**
External static pressure : 60Pa
Power source : 220-240V



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

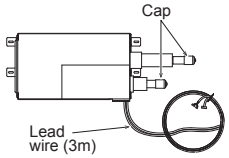
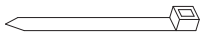
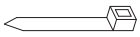
| PFFY-WL-VCM-A | Power supply | | | IFM | |
|---|---|---|---|---|---|
| | Volts/Hz | Range +-10% | MCA(A) | Output (kW) | FLA(A) |
| PFFY-WL20VCM-A | 220-240V/50Hz<br>220-240V/60Hz | Max.: 264V<br>Min.: 198V | 0.59 | 0.096 | 0.47 |
| PFFY-WL25VCM-A | | | 0.70 | 0.096 | 0.56 |
| PFFY-WL32VCM-A | | | 0.82 | 0.096 | 0.65 |
| PFFY-WL40VCM-A | | | 0.83 | 0.096 | 0.66 |
| PFFY-WL50VCM-A | | | 1.08 | 0.096 | 0.86 |

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

| | Description | Model |
|---|---|---|
| PFFY-WL-VCM-A | Valve kit | PAC-SK35VK-E |
| | Attachment plate | PAC-SK39AP-E |
| | 6m Lead wire | PAC-SK40LW-E |

## 8-2. 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.

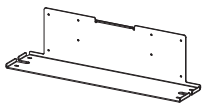
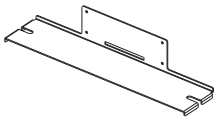
| Item | VALVE KIT | Band (large) | Band (small) | Screw |
|---|---|---|---|---|
| Quantity | 1 | 1 | 1 | 8 |
| Shape |  |  |  |  |

| 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 |

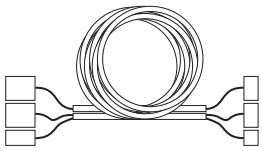
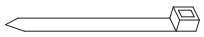
WLV = (E)WL-Type (With an optional valve kit)
WL = (E)WL-Type (Without an optional valve kit)
WP = WP-Type (Without a built-in valve and not compatible with the optional valve kit)
W = W-Type (With a built-in valve)

## 8-3. 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 |  |  |

## 8-4. 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).<br>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.


**MITSUBISHI ELECTRIC CORPORATION**

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MEES21K131

New publication effective Sep. 2022
Specifications subject to change without notice