

Floor standing type

Concealed type

PFFY-P VCM-E **R410A**

• Technologies and functions P.160



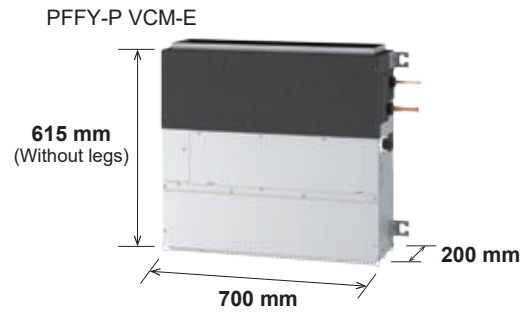
An improved air pathway structure helps reduce power consumption and noise.

External static pressure, airflow rate, and return-air intake direction can be changed according to customer needs.

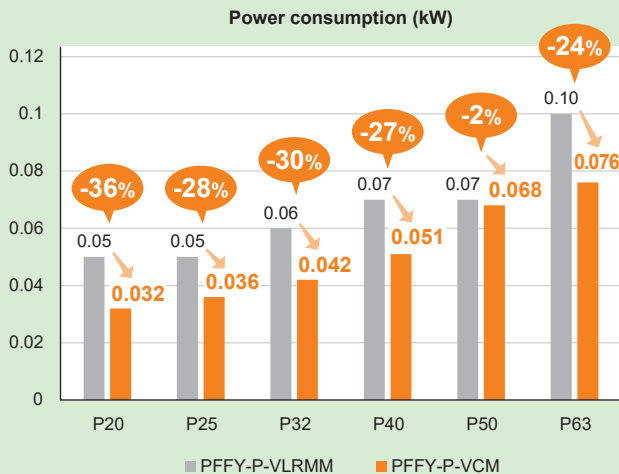
Reduced power consumption and noise

The structure realizes smooth airflow to reduce pressure loss in the air pathway. Additionally, the inner pipes of its heat exchanger have been downsized from $\varnothing 9.52$ to $\varnothing 7.0$ to contain a larger number of pipings.

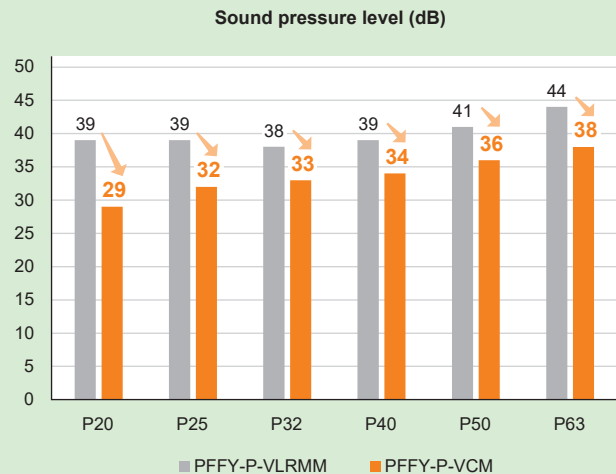
The combination of the structure and components contributes to reducing power consumption and operation noise.



Reduced power consumption



Reduced noise level



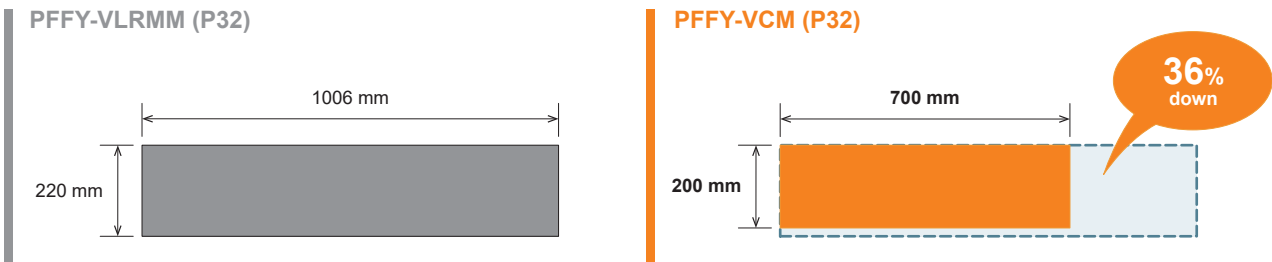
*The sound pressure level during operation is measured at a distance 1.5 m from the front side and bottom side of the unit in an anechoic room.

*Measurement conditions (External static pressure: 40Pa; Fan speed: High)

*The unit consumes the same power in both cooling and heating modes.

Small footprint

The latest model (P32) has a 36% smaller footprint compared to the PFFY-VLRMM, owing to a redesigning of the positions of the inner components.



Flexible airflow and external static pressure setting

Airflow rate and external static pressure can be selected to suit various installation conditions.

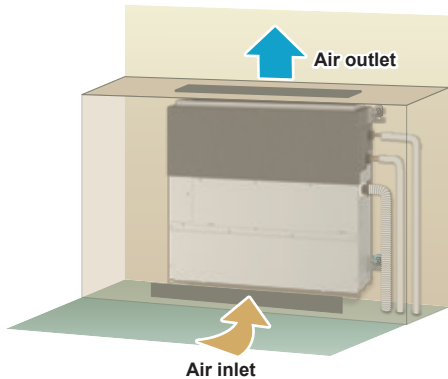
Airflow rate	PFFY-P VLRM	Low-High	External static pressure (Pa)	PFFY-P VLRM	0
	PFFY-P VLRMM	Low/Mid/High		PFFY-P VLRMM	20-40-60
	PFFY-P VCM	Low/Mid/High		PFFY-P VCM	0-10-40-60
Airflow rate can be selected from 3 patterns.			External static pressure can be selected from 4 patterns.		

Flexible installation

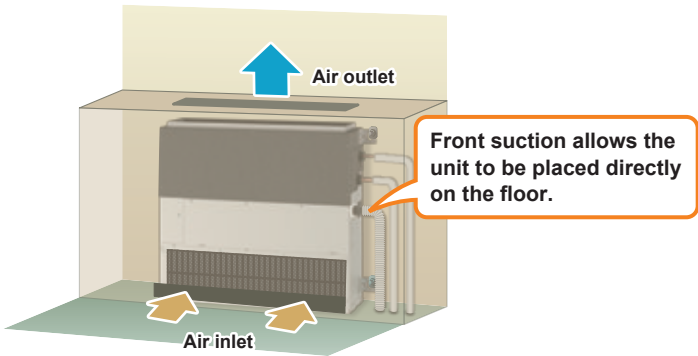
Selectable air inlet pattern

Air inlet can be selected from two patterns, bottom suction or front suction, by changing the panel, fan guard and filter.

Bottom suction *1



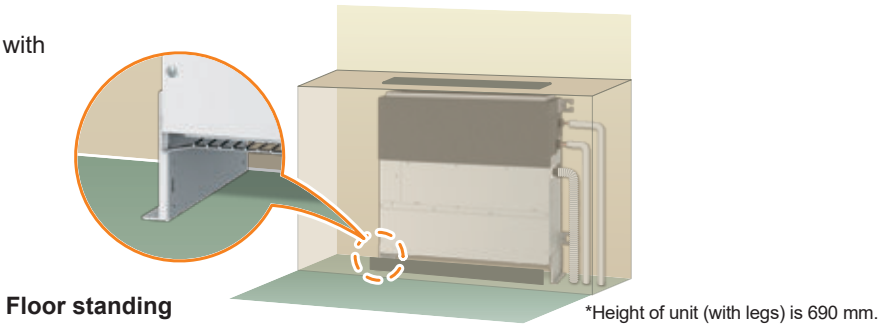
Front suction *2



*1 Select a site where the flow of supply air is not blocked. The unit cannot be placed directly on the floor in the case of bottom suction.
*2 Front suction makes more noise than bottom suction. Bottom suction is recommended when installing the unit in rooms that need to be quiet, such as bedrooms.

Floor standing with legs

The unit can be placed on the floor with the supplied legs attached.



*Height of unit (with legs) is 690 mm.

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			PFFY-P20VCM-E	PFFY-P25VCM-E	PFFY-P32VCM-E	PFFY-P40VCM-E	PFFY-P50VCM-E	PFFY-P63VCM-E
Power source			1-phase 220-230-240 V 50/60 Hz					
Cooling capacity (Nominal)	*1	kW	2.2	2.8	3.6	4.5	5.6	7.1
	*1	BTU/h	7,500	9,600	12,300	15,400	19,100	24,200
	*2	Power input kW	0.022	0.026	0.031	0.038	0.052	0.058
	*2	Current input A	0.25	0.30	0.34	0.38	0.50	0.49
Heating capacity (Nominal)	*3	kW	2.5	3.2	4.0	5.0	6.3	8.0
	*3	BTU/h	8,500	10,900	13,600	17,100	21,500	27,300
	*2	Power input kW	0.022	0.026	0.031	0.038	0.052	0.058
	*2	Current input A	0.25	0.30	0.34	0.38	0.50	0.49
External finish			Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate
External dimension H x W x 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	615 (690) x 900 x 200	615 (690) x 1,100 x 200
		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	24-1/4 (27-3/16) x 35-7/16 x 7-7/8	24-1/4 (27-3/16) x 43-5/16 x 7-7/8
Net weight			kg (lbs)	18 (40)	18 (40)	18.5 (42)	22.5 (51)	22.5 (51)
Heat exchanger			Cross fin (Aluminum fin and copper tube)					
FAN	Type x Quantity		Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 3	Sirocco fan x 3	Sirocco fan x 4
	*5 External static press.	Pa	<0> - 10 - <40> - <60>	<0> - 10 - <40> - <60>	<0> - 10 - <40> - <60>	<0> - 10 - <40> - <60>	<0> - 10 - <40> - <60>	<0> - 10 - <40> - <60>
		mmH ₂ O	<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>	<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	DC motor	DC motor
	Motor output		kW	0.096	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	Direct-driven by motor	Direct-driven by motor
	Air flow rate		(Low-Mid-High)					
		m ³ /min	5.0 - 6.0 - 7.0	5.5 - 6.5 - 8.0	5.5 - 7.0 - 8.5	8.0 - 9.5 - 11.0	10.0 - 11.5 - 13.5	12.0 - 14.0 - 16.5
Sound pressure level (measured in anechoic room)			(Low-Mid-High)					
*2 dB<A>			21-23-26	22-25-29	23-26-30	25-27-30	28-31-34	28-32-35
Air filter			PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.
Refrigerant piping diameter	Liquid (410A)	mm (in.)	6.35 (1/4)Braze	6.35 (1/4)Braze	6.35 (1/4)Braze	6.35 (1/4)Braze	6.35 (1/4)Braze	9.52 (3/8)Braze
	Gas (410A)	mm (in.)	12.7 (1/2)Braze	12.7 (1/2)Braze	12.7 (1/2)Braze	12.7 (1/2)Braze	12.7 (1/2)Braze	15.88 (5/8)Braze
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)

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 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.

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