

INDOOR UNIT Ceiling Concealed Type

PEFY-P VMA(L)-E PEFY-P VMA3-E

Middle Static Pressure
35~150Pa

Slim Body
Height 250mm

With precise control of indoor temperature while operating with optimum energy usage, it offers a high-energy saving efficiency.



Compact Indoor Units

For all models, unit height are unified to 250mm. Compared to the previous model, the height size is reduced, allowing installation in tight spaces, such as ceiling cavities or drop-ceilings.



Reduction in height size

PEFY-P VMA(L)	20	25	32	40	50	63	71	80	100	125	140
Height	mm 250										
Width	mm 700			mm 900			mm 1,100		mm 1,400		mm 1,600
Depth	mm 732										

External static pressure

Five-stage external static pressure settings provide flexibility for duct extension, branching and air outlet configuration and are adjustable to meet different application conditions. Setting ranges to a maximum of 150Pa.

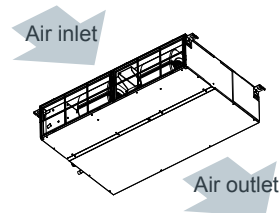
External static pressure setting

Series	20	25	32	40	50	63	71	80	100	125	140
PEFY-P VMA(L)	35/50/70/100/150Pa										

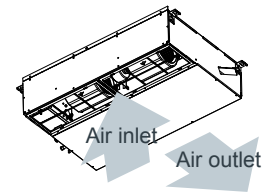


Air Inlet

(1) Rear inlet



(2) Bottom inlet



* The units with bottom inlet make more noise than those with rear inlet. It is recommended that the rear inlet be selected when installing the units in the rooms that should be quiet such as bedrooms.

Drain Pump Option

The line-up consists of two types, models with or without a built-in drain pump allowing more freedom in piping layout design.



PEFY-P VMA-E Drain pump built-in



PEFY-P VMA(L)-E No Drain pump

* Units with a "L" at the end of the model name are not equipped with a drain pump.

Analogue input

Analogue input allows unit to control the fan speed setting in conjunction with damper condition.

IT terminal

IT terminal is available. For details, contact your local distributor.

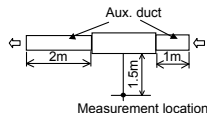
► Specifications

		PEFY-P20VMA(L)-E	PEFY-P25VMA(L)-E	PEFY-P32VMA(L)-E	PEFY-P40VMA(L)-E	PEFY-P50VMA(L)-E	PEFY-P63VMA(L)-E	
Power source *1		1-phase 220-230-240V 50 / 60Hz						
Cooling capacity (Nominal)	*1	kW	2.2	2.8	3.6	4.5	5.6	7.1
	*2	BTU/h	7,500	9,600	12,300	15,400	19,100	24,200
Cooling capacity (Nominal)	*7	kW	2.2	2.8	3.7	4.6	5.7	7.2
	*2	kW	2.5	3.2	4.0	5.0	6.3	8.0
Heating capacity (Nominal)	*3	BTU/h	8,500	10,900	13,600	17,100	21,500	27,300
	*3	kW	0.06 [0.04]	0.06 [0.04]	0.07 [0.05]	0.09 [0.07]	0.11 [0.09]	0.12 [0.10]
Power consumption	*3	kW	0.04	0.04	0.05	0.07	0.09	0.10
	*3	A	0.53 [0.42]	0.53 [0.42]	0.55 [0.44]	0.64 [0.53]	0.74 [0.63]	1.01 [0.90]
Current	*3	A	0.42	0.42	0.44	0.53	0.63	0.90
	External finish		Galvanized steel plate					
Dimension H x W x D	mm		250 x 700 x 732	250 x 700 x 732	250 x 700 x 732	250 x 900 x 732	250 x 900 x 732	250 x 1,100 x 732
	in.		9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 35-7/16 x 28-7/8	9-7/8 x 35-7/16 x 28-7/8	9-7/8 x 43-5/16 x 28-7/8
Net weight		kg(lbs)	23 (51) [22 (49)]	23 (51) [22 (49)]	23 (51) [22 (49)]	26 (58) [25 (56)]	26 (58) [25 (56)]	32 (71) [31 (69)]
Heat exchanger		Cross fin (Aluminum fin and copper tube)						
Fan	Type x Quantity		Sirocco fan x 1				Sirocco fan x 2	
	Airflow rate (Low-Mid-High)	m ³ /min	6.0 - 7.5 - 8.5	6.0 - 7.5 - 8.5	7.5 - 9.0 - 10.5	10.0 - 12.0 - 14.0	12.0 - 14.5 - 17.0	13.5 - 16.0 - 19.0
		L/s	100 - 125 - 142	100 - 125 - 142	125 - 150 - 175	167 - 200 - 233	200 - 242 - 283	225 - 267 - 317
		cfm	212 - 265 - 300	212 - 265 - 300	265 - 318 - 371	353 - 424 - 494	424 - 512 - 600	477 - 565 - 671
External static pressure *4	Pa	<20> - <35> - 50 - <70> - <100> - <150>	<20> - <35> - 50 - <70> - <100> - <150>	<20> - <35> - 50 - <70> - <100> - <150>	<20> - <35> - 50 - <70> - <100> - <150>	<20> - <35> - 50 - <70> - <100> - <150>	<20> - <35> - 50 - <70> - <100> - <150>	
Motor	Type		DC motor					
	Output	kW	0.085	0.085	0.085	0.085	0.085	0.121
Air filter		PP honeycomb fabric.						
Refrigerant pipe diameter	Liquid (R410A)	mm(in.)	6.35 (1/4) Brazed	6.35 (1/4) Brazed	6.35 (1/4) Brazed	6.35 (1/4) Brazed	6.35 (1/4) Brazed	9.52 (3/8) Brazed
	Gas (R410A)	mm(in.)	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed
Field drain pipe diameter		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)	O.D.32 (1-1/4)
Sound pressure level (measured in anechoic room)								
(Low-Mid-High)	*3 *5	dB(A)	26-28-29	26-28-29	28-30-34	28-30-34	28-32-35	29-32-36
	*3 *6	dB(A)	23-25-26	23-25-26	23-26-29	23-27-30	25-29-32	25-29-33

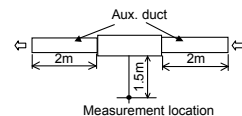
		PEFY-P71VMA(L)-E	PEFY-P80VMA(L)-E	PEFY-P100VMA(L)-E	PEFY-P125VMA(L)-E	PEFY-P140VMA(L)-E	PEFY-P20VMA3-E	
Power source *1		1-phase 220-230-240V 50 / 60Hz						
Cooling capacity (Nominal)	*1	kW	8.0	9.0	11.2	14.0	16.0	2.2
	*2	BTU/h	27,300	30,700	38,200	47,800	54,600	7,500
Cooling capacity (Nominal)	*7	kW	8.1	9.2	11.4	14.2	16.3	—
	*2	kW	9.0	10.0	12.5	16.0	18.0	2.5
Heating capacity (Nominal)	*3	BTU/h	30,700	34,100	42,700	54,600	61,400	8,500
	*3	kW	0.14 [0.12]	0.14 [0.12]	0.24 [0.22]	0.34 [0.32]	0.36 [0.34]	0.110
Power consumption	*3	kW	0.12	0.12	0.22	0.32	0.34	0.090
	*3	A	1.15 [1.04]	1.15 [1.04]	1.47 [1.36]	2.05 [1.94]	2.21 [2.10]	0.90
Current	*3	A	1.04	1.04	1.36	1.94	2.10	0.79
	External finish		Galvanized steel plate					
Dimension H x W x D	mm		250 x 1,100 x 732	250 x 1,100 x 732	250 x 1,400 x 732	250 x 1,400 x 732	250 x 1,600 x 732	250 x 900 x 732
	in.		9-7/8 x 43-5/16 x 28-7/8	9-7/8 x 43-5/16 x 28-7/8	9-7/8 x 55-1/8 x 28-7/8	9-7/8 x 55-1/8 x 28-7/8	9-7/8 x 63 x 28-7/8	9-7/8 x 35-7/16 x 28-7/8
Net weight		kg(lbs)	32 (71) [31 (69)]	32 (71) [31 (69)]	42 (93) [41 (91)]	42 (93) [41 (91)]	46 (102) [45 (100)]	27 (60)
Heat exchanger		Cross fin (Aluminum fin and copper tube)						
Fan	Type x Quantity		Sirocco fan x 2				Sirocco fan x 1	
	Airflow rate (Low-Mid-High)	m ³ /min	14.5 - 18.0 - 21.0	14.5 - 18.0 - 21.0	23.0 - 28.0 - 33.0	28.0 - 34.0 - 40.0	29.5 - 35.5 - 42.0	12.0 - 14.5 - 17.0
		L/s	242 - 300 - 350	242 - 300 - 350	383 - 467 - 550	467 - 567 - 667	492 - 592 - 700	200 - 242 - 283
		cfm	512 - 636 - 742	512 - 636 - 742	812 - 989 - 1,165	989 - 1,201 - 1,412	1,042 - 1,254 - 1,483	424 - 512 - 600
External static pressure *4	Pa	<20> - <35> - 50 - <70> - <100> - <150>	<20> - <35> - 50 - <70> - <100> - <150>	<20> - <35> - 50 - <70> - <100> - <150>	<20> - <35> - 50 - <70> - <100> - <150>	<20> - <35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <125>	
Motor	Type		DC motor					
	Output	kW	0.121	0.121	0.244	0.244	0.244	0.085
Air filter		PP honeycomb fabric.						
Refrigerant pipe diameter	Liquid (R410A)	mm(in.)	9.52 (3/8) Brazed	9.52 (3/8) Brazed	9.52 (3/8) Brazed	9.52 (3/8) Brazed	9.52 (3/8) Brazed	6.35 (1/4) Flare
	Gas (R410A)	mm(in.)	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	12.7 (1/2) Flare
Field drain pipe diameter		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)	O.D.32 (1-1/4)
Sound pressure level (measured in anechoic room)								
(Low-Mid-High)	*3 *5	dB(A)	30-34-38	30-34-38	32-37-41	35-40-44	36-41-45	30-35-39
	*3 *6	dB(A)	26-29-34	26-29-34	28-33-37	32-36-40	33-37-42	—

Notes:

- *1 Nominal cooling conditions
Indoor: 27°C(81°F)DB/19°C(66°F)WB, Outdoor: 35°C(95°F)DB
Pipe length: 7.5m(24-9/16ft.), Level difference: 0m(0ft.)
- *2 Nominal heating conditions
Indoor: 20°C(68°F)DB, Outdoor: 7°C(45°F)DB/6°C(43°F)WB
Pipe length: 7.5m(24-9/16ft.), Level difference: 0m(0ft.)
- *3 The values are measured at the rated external static pressure.
- *4 The rated external static pressure is shown without < >. The factory setting is the rated value.
- *5 Measured in anechoic room with a 1m air inlet duct and 2m air outlet duct attached to the unit and 1.5m below the unit.



- *6 Measured in anechoic room with a 2m air inlet duct and 2m air outlet duct attached to the unit and 1.5m below the unit.



- *7 Reference data under condition of Indoor 27°C(81°F)DB/19.5°C(67°F)WB, Outdoor 35°C(95°F)DB

* [] is in case of PEFY-P VMALE

* When PEFY-P20VMA2-E is connected, the available range of outdoor temperature is between 10°C and 49°C.