

High static pressure type

PEFY-P VMH(S)-E



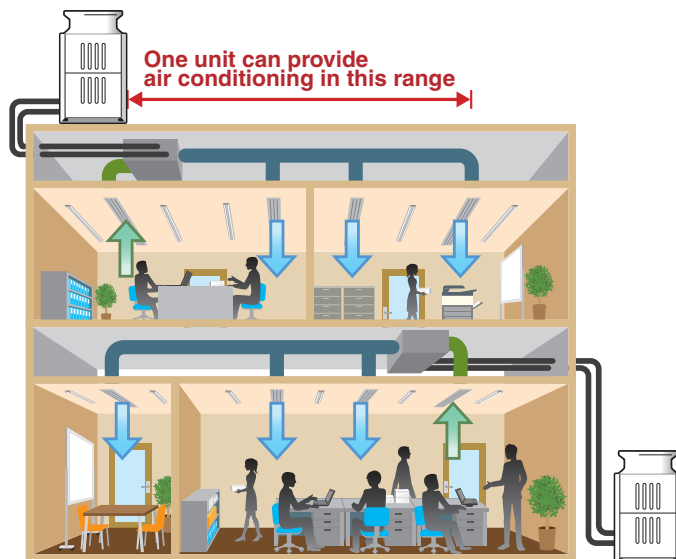
Sufficient external static pressure ensuring flexible duct design

Sufficient external static pressure enables designs with long ducts and greatly expands design possibilities. Ducted air-conditioning that matches an interior design can be realized.

PEFY-P VMHS	P40	P50	P63	P71	P80	P100	P125	P140
External static pressure (Pa)	50 – <100> – <150> – <200>							
PEFY-P VMHS-E	P200				P250			
External static pressure (Pa)	<50> – <100> – 150 – <200> – <250>*							

* The rated external static pressure is shown without < >.
The factory setting is the rated value.

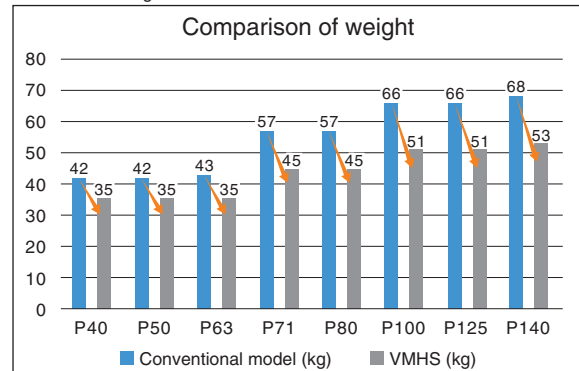
PEFY-P VMH-E	P200	P250
External static pressure (Pa)	380 V	<110> – 220
	400/415 V	<130> – 260



Use of DC motors (VMHS Models)

These new P40 to P140VMHS Models use DC motors. This reduces the power consumption and weight of the units.

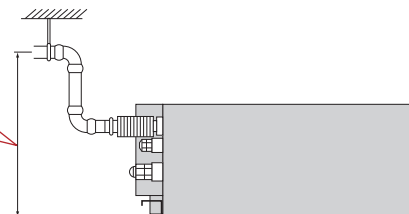
Reduction in weight of units



Drain pump (option) ensures up to 550 mm [21-11/16 in.] for P40-P140VMHS, P200/P250VMH model / 700 mm [27-9/16 in.] for P200/P250VMHS models

The introduction of an upper drain pump allows the drain connection to be raised as high as 550 mm [21-11/16 in.] for P40-P140VMHS, P200/P250VMH models/700 mm [27-9/16 in.] for P200, 500VMHS models, allowing more freedom in piping layout design and reducing horizontal piping requirements.

Drain pump ensures up to 550 mm [21-11/16 in.] (for P40-P140VMHS), 700 mm [27-9/16 in.] (P200, P250VMHS) of lift



Specifications

Model			PEFY-P40VMHS-E	PEFY-P50VMHS-E	PEFY-P63VMHS-E	PEFY-P71VMHS-E	PEFY-P80VMHS-E	PEFY-P100VMHS-E	PEFY-P125VMHS-E	PEFY-P140VMHS-E	
Power source			1-phase 220-230-240 V 50/60 Hz								
Cooling capacity	*1	kW	4.5	5.6	7.1	8.0	9.0	11.2	14.0	16.0	
	*1	BTU/h	15,400	19,100	24,200	27,300	30,700	38,200	47,800	54,600	
	*2	Power input	kW		0.055	0.090	0.075	0.090	0.160		0.190
	*2	Current input (220-230-240 V)	A		0.41-0.39-0.38	0.64-0.62-0.59	0.54-0.52-0.50	0.63-0.61-0.58	1.05-1.01-0.96		1.24-1.19-1.14
Heating capacity	*3	kW	5.0	6.3	8.0	9.0	10.0	12.5	16.0	18.0	
	*3	BTU/h	17,100	21,500	27,300	30,700	34,100	42,700	54,600	61,400	
	*2	Power input	kW		0.055	0.090	0.075	0.090	0.160		0.190
	*2	Current input (220-230-240 V)	A		0.41-0.39-0.38	0.64-0.62-0.59	0.54-0.52-0.50	0.63-0.61-0.58	1.05-1.01-0.96		1.24-1.19-1.14
External finish			Galvanized steel plate								
External dimension H x W x D		mm	380 x 745 x 900			380 x 1,030 x 900		380 x 1,195 x 900			
		in.	15 x 29-3/8 x 35-7/16			15 x 40-9/16 x 35-7/16		15 x 47-1/16 x 35-7/16			
Net weight		kg (lbs.)	35 (78)			45 (100)		51 (113)		53 (117)	
Heat exchanger			Cross fin (Aluminum fin and copper tube)								
Fan	Type x Quantity		Sirocco fan x 1			Sirocco fan x 2					
	*4 External static press.	Pa				50-<100>-<150>-<200>					
		mmH ₂ O				5.1-<10.2>-<15.3>-<20.4>					
	Motor Type		DC motor								
	Motor output		kW			0.121	0.244		0.375		
	Air flow rate		(Low-Mid-High)								
			m ³ /min	10.0-12.0-14.0	13.5-16.0-19.0	15.5-18.0-22.0	18.0-21.5-25.0	26.5-32.0-38.0	28.0-34.0-40.0		
			L/s	167-200-233	225-267-317	258-300-367	300-358-417	442-533-633	467-567-667		
		cfm	353-424-494	477-565-671	547-636-777	636-759-883	936-1,130-1,342	989-1,201-1,412			
Sound pressure level (measured in anechoic room)			(Low-Mid-High)								
			*2 dB <A>	20-23-27		24-27-32	24-26-30	25-27-30	27-31-34		27-32-36
Air filter			Option:Synthetic fiber unwoven cloth filter (long life filter) and filter box are recommended.								
Refrigerant piping diameter	Gas (R410A)	mm (in.)	12.7 (1/2) Brazed			15.88 (5/8) Brazed					
	Liquid (R410A)	mm (in.)	6.35 (1/4) Brazed			9.52 (3/8) Brazed					
Field drain pipe diameter		mm (in.)	O.D.32 (1-1/4)								

Model			PEFY-P200VMH-E		PEFY-P250VMH-E		PEFY-P200VMHS-E		PEFY-P250VMHS-E		
Power source			3-phase 380-415V 50Hz/3N ~ 380-415V 60Hz				1-phase 220-240V 50Hz/1-phase 220-240V 60Hz				
Cooling capacity		*5	kW	22.4		28.0		22.4		28.0	
		*5	BTU/h	76,400		95,500		76,400		95,500	
Heating capacity		*5	kW	25.0		31.5		25.0		31.5	
		*5	BTU/h	85,300		107,500		85,300		107,500	
Power consumption		Cooling	kW	0.99/1.14		1.23/1.41		0.63 *2		0.82 *2	
		Heating	kW	0.99/1.14		1.23/1.41		0.63 *2		0.82 *2	
Current	Cooling	380-415V	A	1.62/1.86		2.00/2.30		—		—	
		220-230-240V	A	—		—		3.47-3.32-3.18 *2		4.72-4.43-4.14 *2	
	Heating	380-415V	A	1.62/1.86		2.00/2.30		—		—	
		220-230-240V	A	—		—		3.47-3.32-3.18 *2		4.72-4.43-4.14 *2	
External finish			Galvanized				Galvanized steel plate				
Dimension H x W x D		mm		470 x 1,250 x 1,120							
		in.		18-9/16 x 49-1/4 x 44-1/8							
Net weight		kg (lbs.)		100 (221)				97 (214)		100 (221)	
Heat exchanger			Cross fin (Aluminum plate fin and copper tube)								
Fan	Type x Quantity		Sirocco fan x 2								
	Airflow rate		m³/min	58.0		72.0		—		—	
			L/s	967		1200		—		—	
			cfm	2048		2543		—		—	
	Lo-Mid-Hi		m³/min	—		—		50.0-61.0-72.0		58.0-71.0-84.0	
			L/s	—		—		833-1017-1200		967-1183-1400	
			cfm	—		—		1766-2154-2542		2048-2507-2966	
	External static pressure		380V	Pa		110 · 220 *6		—		—	
			400, 415V	Pa		130 · 260 *6		—		—	
			Pa	—		—		<50>-<100>-150-<200>-<250> *9		—	
			mmH ₂ O	—		—		<5.1>-<10.2>-15.3-<20.4>-<25.5> *9		—	
Motor	Type	3-phase induction motor									
	Output	kW		0.76 *7		1.08 *7		0.87			
Air filter (option)			Synthetic fiber unwoven cloth filter (long life)				Synthetic fiber unwoven cloth filter (long life filter) and filter box are recommended.				
Refrigerant pipe diameter		Gas (Brazing)	mm (in.)	ø19.05 (ø3/4)		ø22.2 (ø7/8)		ø19.05 (ø3/4)		ø22.2 (ø7/8)	
		Liquid (Brazing)	mm (in.)	ø9.52 (ø3/8)							
Field drain pipe diameter			mm (in.)	O.D. 32 (1-1/4)							
Sound pressure level	380V	dB (A)	42 (110Pa)/45 (220Pa) *8		50 (110Pa)/52 (220Pa) *8		—		—		
	400, 415V	dB (A)	44 (130Pa)/47 (260Pa) *8		52 (130Pa)/54 (260Pa) *8		—		—		
	Lo-Mid-Hi	dB (A)	—		—		36-39-43 *10		39-42-46 *10		

Notes:

- *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.)
- *2 The values are measured at the factory setting of external static pressure.
- *3 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.)
- *4 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.

- *5 Cooling/heating capacity indicates the maximum value at operation under the following condition.
Cooling Indoor : 27°C(81°F)DB/19°C(66°F)WB, Outdoor : 35°C(95°F)DB
Heating Indoor : 20°C(68°F)DB, Outdoor : 7°C(45°F)DB/6°C(43°F)WB
- *6 The external static pressure is set to 220Pa (at 380V) /260Pa (at 400, 415V) at factory shipment.
- *7 The value are that at 415V.
- *8 It is measured in anechoic room.
- *9 The rated external static pressure is shown without < >.
The factory setting is the rated value.
- *10 It is measured at the rated external static pressure in anechoic room.