

1. SPECIFICATIONS

Ceiling concealed (Fresh air intake type)

PEFY-P-VMH-E-F

Model			PEFY-P80VMH-E-F	PEFY-P140VMH-E-F	PEFY-P200VMH-E-F	PEFY-P250VMH-E-F			
Power source			1-phase 220-240V 50Hz, 220-230V 60Hz		3-phase, 4-wire, 380-415V 50/60Hz				
Cooling capacity (Nominal)	*1	kW	9.0	16.0	22.4	28.0			
		BTU / h	30,700	54,600	76,400	95,500			
	*3	Power input	0.16/0.21	0.29/0.33	0.34/0.42	0.39/0.50			
		Current input	0.67/0.91	1.24/1.48	0.58/0.74	0.68/0.86			
Temp. range of Cooling			21°CDB/15.5°CWB ~ 43°CDB/35°CWB 70°FDB/60°FWB ~ 109°FDB/95°FWB *Thermo-off (FAN-mode) automatically starts if the outdoor temperature is lower than 21°CDB (70°FDB).						
Heating capacity (Nominal)	*2	kW	8.5	15.1	21.2	26.5			
		BTU / h	29,000	51,500	72,300	90,400			
	*3	Power input	0.16/0.21	0.29/0.33	0.34/0.42	0.39/0.50			
		Current input	0.67/0.91	1.24/1.48	0.58/0.74	0.68/0.86			
Temp. range of Heating			-10°CDB ~ 20°CDB 14°FDB ~ 68°FDB *Thermo-off (FAN-mode) automatically starts if the outdoor temperature is higher than 20°CDB (68°FDB).						
External finish			Galvanized						
External dimension H x W x D		mm	380 x 1,000 x 900	380 x 1,200 x 900	470 x 1,250 x 1,120	470 x 1,250 x 1,120			
		in.	15 x 39-3/8 x 35-7/16	15 x 47-2/8 x 35-7/16	18-9/16 x 49-1/4 x 44-1/8	18-9/16 x 49-1/4 x 44-1/8			
Net weight		kg (lbs)	50 (111)	67 (148)	100 (221)	100 (221)			
Heat exchanger			Cross fin (Aluminum fin and copper tube)						
FAN	Type x Quantity		Sirocco fan x 1	Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2			
	External static press.	(220V)	Pa	<40> -115- <190>	<50> -115- <190>	<140> -200	<110> -190		
			mmH ₂ O	<4.1> -11.7- <19.4>	<5.1> -11.7- <19.4>	<14.3> -20.4 (380V)	<11.2> -19.4 (380V)		
		(230V)	Pa	<50> -130- <210>	<60> -130- <220>	<150> -210	<120> -200		
			mmH ₂ O	<5.1> -13.3- <21.4>	<6.1> -13.3- <22.4>	<15.3> -21.4 (400V)	<12.2> -20.4 (400V)		
	*4	(240V)	Pa	<80> -170- <220>	<100> -170- <240>	<160> -220	<130> -210		
			mmH ₂ O	<8.2> -17.3- <22.4>	<10.2> -17.3- <24.5>	<16.3> -22.4 (415V)	<13.3> -21.4 (415V)		
	Motor type		Single phase induction motor		3-phase induction motor				
	Motor output		kW	0.09 (220V, 115Pa)	0.14 (220V, 115Pa)	0.20 (415V, 220Pa)	0.23 (415V, 210Pa)		
	Driving mechanism			Direct-driven by motor					
Airflow rate		m ³ / min	9.0	18.0	28.0	35.0			
		L / s	150	300	467	583			
		cfm	318	636	989	1,236			
Sound pressure level (measured in anechoic room)		dB <A>	38 (220V)	38 (220V)	42 (380V)	44 (380V)			
		dB <A>	43 (230, 240V)	43 (230, 240V)	43 (400V)	45 (400V)			
		dB <A>	-	-	44 (415V)	46 (415V)			
Insulation material			EPS, Polyethylene foam						
Air filter			Optional long life filter (synthetic fiber unwoven cloth filter) and filter box are recommended. Field supplied filter is also possible.						
Protection device			Fuse						
Refrigerant control device			LEV						
Connectable outdoor unit			R410A CITY MULTI						
Diameter of refrigerant pipe	Liquid (R410A)	mm (in.)	ø9.52 (ø3/8) Flare	ø9.52 (ø3/8) Flare	ø9.52 (ø3/8) Brazed	ø9.52 (ø3/8) Brazed			
	Gas (R410A)	mm (in.)	ø15.88 (ø5/8) Flare	ø15.88 (ø5/8) Flare	ø19.05 (ø3/4) Brazed	ø22.2 (ø7/8) Brazed			
Field drain pipe size		mm (in.)	O.D. 32mm (1-1/4)						
Drawing	External		IU-W27-5926		IU-W27-7653				
	Wiring		IU-W65-3961		IU-W65-3999				
	Refrigerant cycle		-						
Standard attachment	Document		Installation Manual, Instruction Book						
	Accessory		Insulation pipe for refrigerant pipe, washer, drain hose, tie band, pipe						
Remark	Optional long life filter		PAC-KE88LAF	PAC-KE89LAF	PAC-KE85LAF	PAC-KE85LAF			
	Optional filter box		PAC-KE80TB-F	PAC-KE140TB-F	PAC-KE250TB-F	PAC-KE250TB-F			
	Drain pump		PAC-KE04DM-F	PAC-KE04DM-F	PAC-KE04DM-F	PAC-KE04DM-F			
			a. When the PEFY-P-VMH-E-F is connected with the outdoor unit, the maximum connectable total indoor unit capacity is as follows. <table border="1"> <tr> <td>Heat pump model</td> <td>Cooling only model</td> </tr> <tr> <td>110% (100% in case of heating below -5°C(23°F))</td> <td>110%</td> </tr> </table> b. Only the thermo-sensor in the remote controller or an extra remote thermo-sensor can be chosen as the room temperature sensor. c. The AUTO mode on the local remote controller is available only when fresh air intake type of indoor unit is connected to the R2 or WR2 series of outdoor unit. d. The fan temporary stops during defrost. e. The air flow rate should be kept lower than 110% of value above. Please see "FAN Curve" for details. f. As PEFY-P-VMH-E-F cools the outdoor air directly, dewing at the air outlet grilles is possible, and should be considered. g. Air filter must be installed in the air intake side. The filter should be attached where easy maintenance is possible in case of usage of field supply filters.				Heat pump model	Cooling only model	110% (100% in case of heating below -5°C(23°F))
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110% (100% in case of heating below -5°C(23°F))	110%								
Installation		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.							
Note :			*1 Nominal cooling condition	*2 Nominal heating condition	Unit converter				
			Indoor : 33°CDB/28°CWB (91°FDB/82°FWB)	0°CDB/-2.9°CWB (32°FDB/27°FWB)	BTU/h = kW x 3,412				
			Outdoor : 33°CDB (91°FDB)	0°CDB/-2.9°CWB (32°FDB/27°FWB)	cfm = m ³ /min x 35.31				
			Pipe length : 7.5 m (24-9/16 ft)	7.5 m (24-9/16 ft)	lbs = kg / 0.4536				
			Level difference : 0 m (0 ft)	0 m (0 ft)					
			* Due to continuing improvement, above specification may be subject to change without notice.	*4 The factory setting of external static pressure is shown without < > .					
			*3 The values are measured at the factory setting of external static pressure.	Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.					
			<ul style="list-style-type: none"> Fresh air intake type indoor unit is designed to supply pretreated outside air into the room. Do not use to handle internal thermal load. Depending on the air conditioning load, outside temperature, and due to the activation of protection functions, the outlet air temperature may swing. Note that untreated outside air may be delivered directly into the room upon the activation of protection functions. When fresh air intake type indoor units connect to an outdoor unit together with other types of indoor unit, the total capacity of fresh air intake type indoor units needs to be 30% or less of the connected outdoor unit capacity. The system changeover function is available only when all the connected indoor units are fresh air intake type indoor units. Dry mode is not available. When this unit is used as sole A/C system, be careful about the dew in air outlet grills in cooling mode. 						
			*Above specification data is subject to rounding variation.						