

Low noise type

R410A

P.121

PEFY-P VMR-E-L/R



- Realizes low noise operation. Most suitable for places such as hotels where low noise operation is required.
- The position of the inlet can be selected to be at the bottom or rear.
- The location of the piping connection can be selected according to the layout of a room.

Static pressure
5 Pa

Low
noise

Rear inlet
Bottom inlet

Piping connection
Right/Left

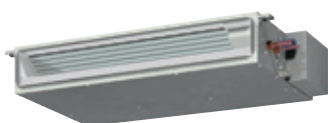
Air flow rate
3 levels

Low static pressure type

R410A

P.123

PEFY-P VMS1(L)-E



- Thin design with a body height of 200 mm (all HP models) enables installation in a ceiling with small cavity space.
- Realizes low noise operation.
- Demonstrates a maximum external static pressure of 50 Pa despite its compact design.
- The drain pump can be installed or not.

Static pressure
Maximum 50 Pa

Low
noise

Height
200 mm

Drain pump (standard)
Maximum lifting height 550 mm

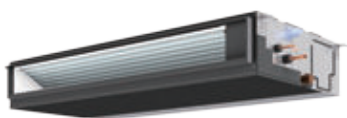
Air flow rate
3 levels

Medium static pressure type

R32 R410A

P.125

PEFY-M VMA(L)-A PEFY-M VMA(L)-A1



- Thin design with a body height of 250 mm (all HP models) enables installation in a ceiling with small cavity space.
- The position of the inlet can be selected to be at the bottom or rear.
- Demonstrates a maximum external static pressure of 150 Pa despite its compact design.
- The lineup consists of two types of models, with or without a built-in drain pump, for more flexibility in piping layout design.

Static pressure
Maximum 150 Pa

Height
250 mm

Rear inlet
Bottom inlet

Drain pump (standard)
Maximum lifting height 700 mm

Air flow rate
4 levels

High static pressure type

R410A

P.131

PEFY-P VMHS-E



- Maximum external static pressure of 250 Pa* allows for more flexibility in duct design.
*P200, P250VMHS-E models
- Compatible with drain pumps (option) 550 mm–700 mm

Static pressure
Maximum 250 Pa

*Maximum pressure differs depending on model.
Drain pump (option)
Maximum lifting height 700 mm

Air flow rate
3 levels

Fresh air intake type

R410A

P.135

PEFY-P VMHS-E-F


*This image shows the PEFY-P125VMHS-E-F model.

- Fresh air intake type indoor unit
- Outlet air temperature can be controlled.
- Maximum external static pressure of 250 Pa allows for more flexibility in duct design.

Static pressure
Maximum 250 Pa

Fresh air
intake type

Drain pump (option)
Maximum lifting height 700 mm

Air flow rate
3 levels

Ceiling concealed type

Low static pressure type

PEFY-P VMS1(L)-E **R410A**

• Technologies and functions P.160



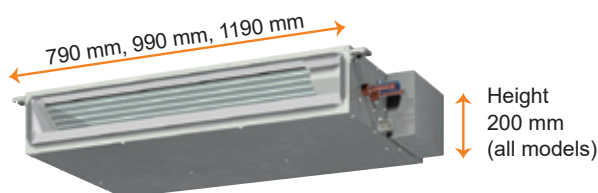
*This image shows the VMS1 type (equipped with a drain pump as a standard feature).

A thin body 200 mm in height and a maximum external static pressure rating of 50 Pa provide significant flexibility of design and allow installation in narrow ceiling spaces.

The lineup consists of models up to P63 with the same height.

Compact design with a height of no more than 200 mm (all models) and widths of 790 mm (P15-P32).

The thin body with a height of no more than 200 mm (all models) allows installation in a ceiling with small cavity space.



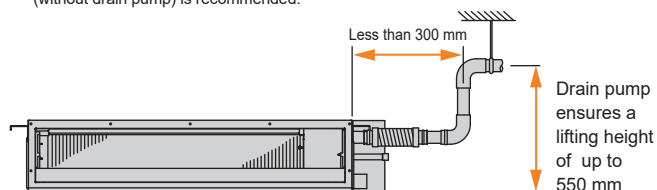
PEFY-P VMS1(L)-E	P15	P20	P25	P32	P40	P50	P63
Height	mm	200					
Width	mm	790			990	1190	

Optional drain pump

For PEFY-P VMS1, the drain pump is equipped as a standard feature and eliminates the need for a drain trap. It has a maximum lifting height of 550 mm.

For PEFY-P VMS1L-E, the drain pump is sold separately.

*For places where low noise operation is especially required (i.e., hotels), VMS1L (without drain pump) is recommended.



Low noise design

Owing to a centrifugal fan and coil, low noise operation is realized. It is best suited to places where quietness is required.

- Sound pressure level (standard static pressure) at 15 Pa

		dB(A)							
Sound pressure level	Capacity	P15	P20	P25	P32	P40	P50	P63	
	Fan Speed	High	28	29	30	32	33	35	36
		Mid	24	25	26	27	30	32	33
		Low	22	23	24	24	28	30	30

Demonstrates a maximum external static pressure of 50 Pa despite its compact design

External static pressure can be selected from 5, 15, 35 and 50 Pa (set to 15 Pa at the time of factory shipment).

IT terminal

An IT terminal is available. Contact your local distributor for details.

Connectable to Plasma Quad Connect

The optional Plasma Quad Connect MAC-100FT-E can be installed on the indoor unit's air inlet side. For installation, PQ attachment is required.

Lineup & Functions

Y-Series

R2-Series

ZUBADAN-Series

S-Series

BC Controllers

Ceiling cassette type

Ceiling concealed type

Ceiling suspended type

Wall-mounted type

Floor standing type

Functions

LOSSNAY System

Remote Controller

Hot Water Solution

Ceiling concealed type **R410A**

Low static pressure type **PEFY-P VMS1(L)-E**

			PEFY-P15VMS1(L)-E	PEFY-P20VMS1(L)-E	PEFY-P25VMS1(L)-E	PEFY-P32VMS1(L)-E	PEFY-P40VMS1(L)-E	PEFY-P50VMS1(L)-E	PEFY-P63VMS1(L)-E
Power source			1-phase 220-240V 50Hz / 1-phase 220-240V 60Hz						
Cooling capacity	*1	kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1
	*1	BTU/h	5,800	7,500	9,600	12,300	15,400	19,100	24,200
Heating capacity	*1	kW	1.9	2.5	3.2	4.0	5.0	6.3	8.0
	*1	BTU/h	6,500	8,500	10,900	13,600	17,100	21,500	27,300
Power consumption	*3	Cooling	kW	0.05 [0.03]	0.05 [0.03]	0.06 [0.04]	0.07 [0.05]	0.07 [0.05]	0.09 [0.07]
		Heating	kW	0.03 [0.03]	0.03 [0.03]	0.04 [0.04]	0.05 [0.05]	0.05 [0.05]	0.07 [0.07]
Current	*3	Cooling	A	0.42 [0.31]	0.47 [0.36]	0.50 [0.39]	0.50 [0.39]	0.56 [0.45]	0.67 [0.56]
		Heating	A	0.31 [0.31]	0.36 [0.36]	0.39 [0.39]	0.39 [0.39]	0.45 [0.45]	0.56 [0.56]
External finish			Galvanized						
Dimension		mm	200 x 790 x 700				200 x 990 x 700		200 x 1,190 x 700
H x W x D		in.	7-7/8 x 31-1/8 x 27-9/16				7-7/8 x 39 x 27-9/16		7-7/8 x 46-7/8 x 27-9/16
Net weight	*3	kg(lbs.)	19(42) [18(40)]			20(45) [19(42)]	24(53) [23(51)]		28(62) [27(60)]
Heat exchanger			Cross fin (Aluminium fin and copper tube)						
FAN	Type x Quantity		Sirocco fan x 2				Sirocco fan x 3		Sirocco fan x 4
	Airflow rate (Lo-Mid-Hi)	m³/min	5-6-7	5.5-6.5-8	5.5-7-9	6-8-10	8-9.5-11	9.5-11-13	12-14-16.5
		L/s	83-100-117	91-108-133	91-117-150	100-133-167	133-158-183	158-183-217	200-233-275
		cfm	176-212-247	194-229-282	194-247-317	212-282-353	282-335-388	335-388-459	424-494-583
	External static press.	Pa	5-15-35-50						
Motor	Type		DC motor						
	Output		0.096						
Air filter			PP Honeycomb fabric (washable)						
Refrigerant	Gas	mm(in.)	ø12.7 (ø1/2) Brazed						ø15.88 (ø5/8) Brazed
pipe diameter	Liquid	mm(in.)	ø6.35 (ø1/4) Brazed						ø9.52 (ø3/8) Brazed
Field drain pipe diameter			O.D. 32 (1-1/4)						
Sound pressure level (Lo-Mid-Hi) (measured in anechoic room)		dB<A>	22-24-28	23-25-29	24-26-30	24-27-32	28-30-33	30-32-35	30-33-36

Notes:

- *1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.
Cooling : 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.)
Heating : 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 : 7.5m (24-9/16ft) Height difference : 0m (0ft)
- *2 The external static pressure is set to 15 Pa at factory shipment.
- *3 [] is in case of PEFY-P15-63VMS1L-E

Optional parts

Description	Model	Applicable capacity
Drain pump	PAC-KE07DM-E	P15, 20, 25, 32, 40, 50, 63 *For PEFY-VMS1L only
Control box replace kit	PAC-KE70HS-E	P15, 20, 25, 32, 40, 50, 63
Plasma quad connect*	MAC-100FT-E	P15, 20, 25, 32, 40, 50, 63
PQ attachment*	PAC-HA11PAR	P15, 20, 25, 32, 40, 50, 63

* Plasma Quad Connect (MAC-100FT-E) should be used together with PQ attachment.

Ceiling concealed type

Medium static pressure type

PEFY-M VMA(L)-A **R32** **R410A**

PEFY-M VMA(L)-A1 **R32** **R410A**

• Technologies and functions P.160



A wide range of external static pressure and the slim 250-mm-height body provide design flexibility for narrow ceiling spaces. The lineup consists of up to M140 with the same height.

Five levels of external static pressure settings

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

• External static pressure setting

Series	20	25	32	40	50	63	71	80	100	125	140
PEFY-M VMA(L)-A				35/50/70/100/150 Pa			40/50/70/100/150 Pa				
PEFY-M VMA(L)-A1				35/50/70/100/150 Pa			40/50/70/100/150 Pa				

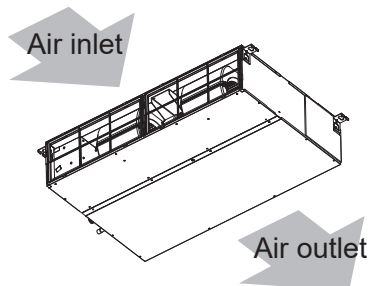
Four fan speeds to choose from

The conventional models had three levels of fan speed, but the new models offer four levels (Low/Mid2/Mid1/High). Combined with a wider selection of external static pressure levels, the new models offer optimal operation settings to suit the air-conditioning load of the installation space.

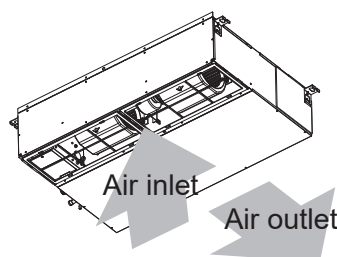
Air inlet direction can be easily changed

By simply switching the closing board and air filter, the inlet layout can be changed from the rear inlet to the bottom inlet. (At factory shipment: Rear inlet)

• Rear inlet



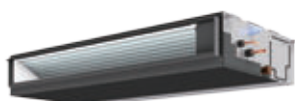
• Bottom inlet



* Units with a bottom inlet make more noise than those with a rear inlet. The rear inlet is recommended for rooms that need to be quiet, such as bedrooms.

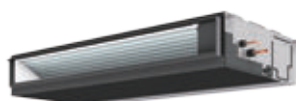
Optional drain pump

The lineup consists of two types of models, with or without a built-in drain pump, for more flexibility in piping layout design.



Built-in drain pump

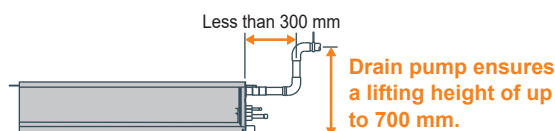
PEFY-M VMA-A
PEFY-M VMA-A1



No drain pump

PEFY-M VMAL-A
PEFY-M VMAL-A1

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



Connectable to Plasma Quad Connect

The optional Plasma Quad Connect MAC-100FT-E can be installed on the indoor unit's air inlet side (PEFY-M VMAL-A1 only). For installation, PQ attachment or PQ box is required.

Ceiling concealed type **R32** **R410A**

Medium static pressure type **PEFY-M VMA-A** (built-in drain pump)

		PEFY-M20VMA-A	PEFY-M25VMA-A	PEFY-M32VMA-A	PEFY-M40VMA-A	PEFY-M50VMA-A	PEFY-M63VMA-A
Power source		1-phase 220-230-240 V 50 Hz	1-phase 220-230-240 V 50 Hz	1-phase 220-230-240 V 50 Hz	1-phase 220-230-240 V 50 Hz	1-phase 220-230-240 V 50 Hz	1-phase 220-230-240 V 50 Hz
Cooling capacity	*1 kW	2.2	2.8	3.6	4.5	5.6	7.1
(Nominal)	*1 BTU/h	7,500	9,600	12,300	15,400	19,100	24,200
	*2 Power input kW	0.032	0.032	0.044	0.047	0.066	0.087
	*2 Current input A	0.26-0.25-0.24	0.26-0.25-0.24	0.36-0.34-0.33	0.39-0.37-0.36	0.53-0.51-0.49	0.69-0.66-0.63
Heating capacity	*3 kW	2.5	3.2	4.0	5.0	6.3	8.0
(Nominal)	*3 BTU/h	8,500	10,900	13,600	17,100	21,500	27,300
	*2 Power input kW	0.030	0.030	0.042	0.045	0.064	0.085
	*2 Current input A	0.26-0.25-0.24	0.26-0.25-0.24	0.36-0.34-0.33	0.39-0.37-0.36	0.53-0.51-0.49	0.69-0.66-0.63
External finish		Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate
External dimension	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 900 x 732
H x W x D	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 35-7/16 x 28-7/8
Net weight	kg (lbs)	21 (47)	21 (47)	21 (47)	25 (56)	25 (56)	27 (60)
Heat exchanger		Cross fin (Aluminum fin and copper tube)					
FAN	Type x Quantity	Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2
*4 External static press.	Pa	35 - <50> - <70> - <100> - <150>	35 - <50> - <70> - <100> - <150>	35 - <50> - <70> - <100> - <150>	35 - <50> - <70> - <100> - <150>	35 - <50> - <70> - <100> - <150>	35 - <50> - <70> - <100> - <150>
	mmH ₂ O	3.6 - <5.1> - <7.1> - <10.2> - <15.3>	3.6 - <5.1> - <7.1> - <10.2> - <15.3>	3.6 - <5.1> - <7.1> - <10.2> - <15.3>	3.6 - <5.1> - <7.1> - <10.2> - <15.3>	3.6 - <5.1> - <7.1> - <10.2> - <15.3>	3.6 - <5.1> - <7.1> - <10.2> - <15.3>
	Motor Type	DC motor	DC motor	DC motor	DC motor	DC motor	DC motor
	Motor output kW	0.085	0.085	0.085	0.121	0.121	0.121
	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	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
Sound pressure level (measured in *2 *5 *7 anechoic room) *2 *6 *7	dB<A>	21.0-25.0-27.0 18.0-22.0-24.0	21.0-25.0-27.0 18.0-22.0-24.0	23.0-27.0-30.0 20.0-24.0-27.0	23.0-28.0-31.0 20.0-25.0-28.0	24.0-31.0-34.0 21.0-28.0-31.0	27.0-31.0-35.0 24.0-28.0-32.0
Air filter		PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.
Connectable outdoor unit		R32, R410A CITY MULTI	R32, R410A CITY MULTI	R32, R410A CITY MULTI	R32, R410A CITY MULTI	R32, R410A CITY MULTI	R32, R410A CITY MULTI
Refrigerant	Liquid	mm (in.)	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
piping diameter	Gas	mm (in.)	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")	O.D.32 (1-1/4")
Optional parts	Filter box	PAC-KE91TB-E	PAC-KE91TB-E	PAC-KE91TB-E	PAC-KE92TB-E	PAC-KE92TB-E	PAC-KE92TB-E

		PEFY-M71VMA-A	PEFY-M80VMA-A	PEFY-M100VMA-A	PEFY-M125VMA-A	PEFY-M140VMA-A
Power source		1-phase 220-230-240 V 50 Hz	1-phase 220-230-240 V 50 Hz	1-phase 220-230-240 V 50 Hz	1-phase 220-230-240 V 50 Hz	1-phase 220-230-240 V 50 Hz
Cooling capacity	*1 kW	8.0	9.0	11.2	14.0	16.0
(Nominal)	*1 BTU/h	27,300	30,700	38,200	47,800	54,600
	*2 Power input kW	0.080	0.080	0.142	0.199	0.208
	*2 Current input A	0.60-0.57-0.55	0.60-0.57-0.55	1.01-0.97-0.93	1.29-1.23-1.18	1.40-1.34-1.28
Heating capacity	*3 kW	9.0	10.0	12.5	16.0	18.0
(Nominal)	*3 BTU/h	30,700	34,100	42,700	54,600	61,400
	*2 Power input kW	0.078	0.078	0.140	0.197	0.206
	*2 Current input A	0.60-0.57-0.55	0.60-0.57-0.55	1.01-0.97-0.93	1.29-1.23-1.18	1.40-1.34-1.28
External finish		Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate
External dimension	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
H x W x D	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
Net weight	kg (lbs)	30 (67)	30 (67)	37 (82)	38 (84)	42 (93)
Heat exchanger		Cross fin (Aluminum fin and copper tube)				
FAN	Type x Quantity	Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 3	Sirocco fan x 3	Sirocco fan x 3
*4 External static press.	Pa	40 - <50> - <70> - <100> - <150>	40 - <50> - <70> - <100> - <150>	40 - <50> - <70> - <100> - <150>	40 - <50> - <70> - <100> - <150>	40 - <50> - <70> - <100> - <150>
	mmH ₂ O	4.1 - <5.1> - <7.1> - <10.2> - <15.3>	4.1 - <5.1> - <7.1> - <10.2> - <15.3>	4.1 - <5.1> - <7.1> - <10.2> - <15.3>	4.1 - <5.1> - <7.1> - <10.2> - <15.3>	4.1 - <5.1> - <7.1> - <10.2> - <15.3>
	Motor Type	DC motor	DC motor	DC motor	DC motor	DC motor
	Motor output kW	0.121	0.121	0.300	0.300	0.300
	Driving mechanism	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	14.5 - 18.0 - 21.0	14.5 - 18.0 - 21.0	23.0 - 28.0 - 32.0	28.0 - 34.0 - 37.0	29.5 - 35.5 - 40.0
	L/s	242 - 300 - 350	242 - 300 - 350	383 - 467 - 533	467 - 567 - 617	492 - 592 - 667
	cfm	512 - 636 - 742	512 - 636 - 742	812 - 989 - 1,130	989 - 1,201 - 1,306	1,042 - 1,254 - 1,412
Sound pressure level (measured in *2 *5 *7 anechoic room) *2 *6 *7	dB<A>	25.0-31.0-34.0 22.0-28.0-31.0	25.0-31.0-34.0 22.0-28.0-31.0	30.0-35.0-38.0 27.0-32.0-35.0	34.0-38.0-40.0 31.0-35.0-37.0	33.0-37.0-40.0 30.0-34.0-37.0
Air filter		PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.
Connectable outdoor unit		R32, R410A CITY MULTI	R32, R410A CITY MULTI	R32, R410A CITY MULTI	R32, R410A CITY MULTI	R32, R410A CITY MULTI
Refrigerant	Liquid	mm (in.)	9.52 (3/8) Braze	9.52 (3/8) Braze	9.52 (3/8) Braze	9.52 (3/8) Braze
piping diameter	Gas	mm (in.)	15.88 (5/8) Braze	15.88 (5/8) Braze	15.88 (5/8) 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")
Optional parts	Filter box	PAC-KE93TB-E	PAC-KE93TB-E	PAC-KE94TB-E	PAC-KE94TB-E	PAC-KE95TB-E

Notes:

- *1 Nominal cooling conditions
Indoor: 27°CDB/19°CWB (81°FDB/66°FWB), Outdoor: 35°CDB (95°FDB)
Pipe length: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)
- *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: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)
- *4 The factory setting of airflow mode and external static pressure mode 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 Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit.
- *6 Measured in anechoic room with a 2 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit.

- *7 The sound pressure level measured by the conventional method in JIS.
- * R32 is flammable, and certain restrictions apply to the installation of units.
For detail, refer to the section in the Databook on installation restrictions.
- * Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.
- * Due to continuing improvement, above specifications may be subject to change without notice.
- * When connecting the indoor units of M20 or M25, the maximum connectable number of indoor units is limited. Please refer to the table for details.

	Outdoor unit	(E)M200	(E)M250	(E)M300
Connectable indoor units	Not including M20 or M25	1-20	1-25	1-30
	Including M20 or M25	1-8	1-10	1-12

Ceiling concealed type **R32** **R410A**

Medium static pressure type **PEFY-M VMAL-A** (Without drain pump)

			PEFY-M20VMAL-A	PEFY-M25VMAL-A	PEFY-M32VMAL-A	PEFY-M40VMAL-A	PEFY-M50VMAL-A	PEFY-M63VMAL-A
Power source			1-phase 220-230-240 V 50 Hz		1-phase 220-230-240 V 50 Hz		1-phase 220-230-240 V 50 Hz	
Cooling capacity (Nominal)	*1	kW	2.2		3.6		4.5	
	*1	BTU/h	7,500		12,300		15,400	
*2	Power input	kW	0.030		0.042		0.045	
	Current input	A	0.26-0.25-0.24		0.36-0.34-0.33		0.39-0.37-0.36	
Heating capacity (Nominal)	*3	kW	2.5		4.0		5.0	
	*3	BTU/h	8,500		13,600		17,100	
*2	Power input	kW	0.030		0.042		0.045	
	Current input	A	0.26-0.25-0.24		0.36-0.34-0.33		0.39-0.37-0.36	
External finish			Galvanized steel plate		Galvanized steel plate		Galvanized steel plate	
External dimension H x W x D	mm		250 x 700 x 732		250 x 700 x 732		250 x 900 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 35-7/16 x 28-7/8	
Net weight			20 (45)		20 (45)		24 (53)	
Heat exchanger			Cross fin (Aluminum fin and copper tube)					
FAN	Type x Quantity		Sirocco fan x 1		Sirocco fan x 1		Sirocco fan x 2	
	*4 External static press.	Pa	35 - <50> - <70> - <100> - <150>		35 - <50> - <70> - <100> - <150>		35 - <50> - <70> - <100> - <150>	
		mmH ₂ O	3.6 - <5.1> - <7.1> - <10.2> - <15.3>		3.6 - <5.1> - <7.1> - <10.2> - <15.3>		3.6 - <5.1> - <7.1> - <10.2> - <15.3>	
	Motor Type		DC motor		DC motor		DC motor	
	Motor output		0.085		0.085		0.121	
	Driving mechanism		Direct-driven by motor		Direct-driven by motor		Direct-driven by motor	
	Air flow rate		(Low-Mid-High)					
	m ³ /min		6.0 - 7.5 - 8.5		7.5 - 9.0 - 10.5		10.0 - 12.0 - 14.0	
L/s		100 - 125 - 142		125 - 150 - 175		167 - 200 - 233		
cfm		212 - 265 - 300		265 - 318 - 371		353 - 424 - 494		
Sound pressure level (measured in *2 *5 *7 anechoic room) *2 *6 *7			(Low-Mid-High)					
dB<A>			21.0-25.0-27.0		23.0-27.0-30.0		24.0-31.0-34.0	
			18.0-22.0-24.0		20.0-24.0-27.0		21.0-28.0-31.0	
Air filter			PP honeycomb fabric.		PP honeycomb fabric.		PP honeycomb fabric.	
Connectable outdoor unit			R32, R410A CITY MULTI		R32, R410A CITY MULTI		R32, R410A CITY MULTI	
Refrigerant piping diameter	Liquid	mm (in.)	6.35 (1/4) Brazed		6.35 (1/4) Brazed		6.35 (1/4) Brazed	
	Gas	mm (in.)	12.7 (1/2) Brazed		12.7 (1/2) Brazed		12.7 (1/2) Brazed	
Field drain pipe size			mm (in.)		mm (in.)		mm (in.)	
Optional parts			PAC-KE91TB-E		PAC-KE91TB-E		PAC-KE92TB-E	
Filter box			PAC-KE91TB-E		PAC-KE92TB-E		PAC-KE92TB-E	

		PEFY-M71VMAL-A	PEFY-M80VMAL-A	PEFY-M100VMAL-A	PEFY-M125VMAL-A	PEFY-M140VMAL-A	
Power source		1-phase 220-230-240 V 50 Hz		1-phase 220-230-240 V 50 Hz	1-phase 220-230-240 V 50 Hz	1-phase 220-230-240 V 50 Hz	
Cooling capacity	*1	kW	8.0	9.0	11.2	14.0	
(Nominal)	*1	BTU/h	27,300	30,700	38,200	47,800	
	*2	Power input	kW	0.078	0.140	0.206	
	*2	Current input	A	0.60-0.57-0.55	0.60-0.57-0.55	1.01-0.97-0.93	
Heating capacity	*3	kW	9.0	10.0	12.5	16.0	
(Nominal)	*3	BTU/h	30,700	34,100	42,700	54,600	
	*2	Power input	kW	0.078	0.140	0.206	
	*2	Current input	A	0.60-0.57-0.55	0.60-0.57-0.55	1.01-0.97-0.93	
External finish		Galvanized steel plate		Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	
External dimension	mm	250 x 1,100 x 732		250 x 1,100 x 732	250 x 1,400 x 732	250 x 1,600 x 732	
H x W x D	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 63 x 28-7/8	
Net weight	kg (lbs)	29 (64)		29 (64)	36 (80)	37 (82)	
Heat exchanger		Cross fin (Aluminum fin and copper tube)					
FAN	Type x Quantity	Sirocco fan x 2		Sirocco fan x 2	Sirocco fan x 3	Sirocco fan x 3	
*4	External static press.	Pa	40 - <50> - <70> - <100> - <150>		40 - <50> - <70> - <100> - <150>	40 - <50> - <70> - <100> - <150>	
		mmH ₂ O	4.1 - <5.1> - <7.1> - <10.2> - <15.3>		4.1 - <5.1> - <7.1> - <10.2> - <15.3>	4.1 - <5.1> - <7.1> - <10.2> - <15.3>	
	Motor Type	DC motor		DC motor	DC motor	DC motor	
	Motor output	kW		0.121	0.121	0.300	0.300
	Driving mechanism	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	14.5 - 18.0 - 21.0		14.5 - 18.0 - 21.0	23.0 - 28.0 - 32.0	28.0 - 34.0 - 37.0	
	L/s	242 - 300 - 350		242 - 300 - 350	383 - 467 - 533	467 - 567 - 617	
	cfm	512 - 636 - 742		512 - 636 - 742	812 - 989 - 1,130	989 - 1,201 - 1,306	
Sound pressure level (measured in anechoic room)		(Low-Mid-High)					
	*2 *5 *7	25.0-31.0-34.0		25.0-31.0-34.0	34.0-38.0-40.0	33.0-37.0-40.0	
	*2 *6 *7	22.0-28.0-31.0		22.0-28.0-31.0	27.0-32.0-35.0	30.0-34.0-37.0	
Air filter	PP honeycomb fabric.		PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	
Connectable outdoor unit	R32, R410A CITY MULTI		R32, R410A CITY MULTI	R32, R410A CITY MULTI	R32, R410A CITY MULTI	R32, R410A CITY MULTI	
Refrigerant	Liquid	mm (in.)	9.52 (3/8) Braze	9.52 (3/8) Braze	9.52 (3/8) Braze	9.52 (3/8) Braze	
piping diameter	Gas	mm (in.)	15.88 (5/8) Braze	15.88 (5/8) Braze	15.88 (5/8) 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")	
Optional parts	Filter box	PAC-KE93TB-E		PAC-KE93TB-E	PAC-KE94TB-E	PAC-KE95TB-E	

Notes:

- *1 Nominal cooling conditions
Indoor: 27°CDB/19°CWB (81°FDB/66°FWB), Outdoor: 35°CDB (95°FDB)
Pipe length: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)
- *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: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)
- *4 The factory setting of airflow mode and external static pressure mode 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 Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit.

- *6 Measured in anechoic room with a 2 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit.
- *7 The sound pressure level measured by the conventional method in JIS.
- * R32 is flammable, and certain restrictions apply to the installation of units.
For detail, refer to the section in the Databook on installation restrictions.
- * Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.
- * Due to continuing improvement, above specifications may be subject to change without notice.
- * When connecting the indoor units of M20 or M25, the maximum connectable number of indoor units is limited. Please refer to the table for details.

	Outdoor unit	(E)M200	(E)M250	(E)M300
Connectable indoor units	Not including M20 or M25	1-20	1-25	1-30
	Including M20 or M25	1-8	1-10	1-12

Ceiling concealed type

High static pressure type

PEFY-P VMHS-E **R410A**

• Technologies and functions P.160



PEFY-P VMHS-E
(P40-P140)



PEFY-P VMHS-E (P200/P250)

A wide range of external static pressure allows authentic duct air-conditioning with an elegant interior layout.

Maximum 250 Pa of external static pressure allows easy duct design

High external static pressure enables long duct and more freedom in design. It allows high interior oriented ducted air conditioning.

PEFY-P VMHS-E	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 factory setting of external static pressure is shown without chevrons "<" ">".

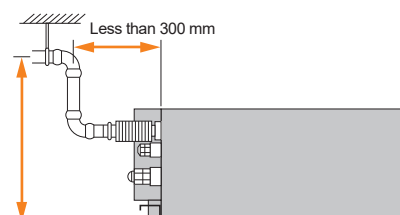
Refer to "Fan characteristics curves", according to the external static pressure, in the DATA BOOK for the usable range of the air flow rate.



Drain pump (option) ensures up to 550 mm (21-11/16 in.) of lift for P40-P140 VMHS models / 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 models/700 mm (27-9/16 in.) for P200/P250VMHS models, allowing more freedom in piping layout design and reducing horizontal piping requirements.

Drain pump ensures up to 550 mm of lift (P40-P140VMHS models), 700 mm of lift (P200/P250 VMHS models)



IT terminal

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

Lineup &
Functions

Y-Series

R2-Series

ZUBADAN
-Series

S-Series

BC Controllers

Ceiling
cassette type

Ceiling
concealed type

Ceiling
suspended type

Wall-mounted
type

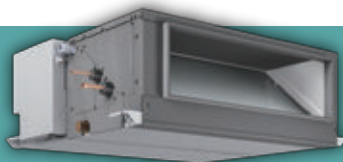
Floor standing
type

Functions

LOSSNAY
System

Remote
Controller

Hot Water
Solution



P140 (6 HP) and smaller models with a DC motor

The use of a DC motor

In the past, the only models featuring a DC motor were the P200 (8 HP) and P250 (10 HP). Now, the P140 (6 HP) and smaller models feature a DC motor that consumes less power compared to AC motors. In the P80 models, power consumption is reduced by 59%*.

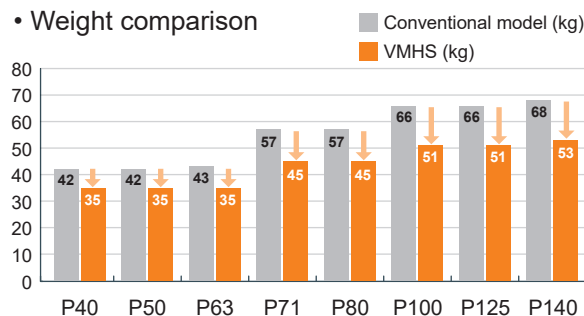
*Comparison made at 50 Hz, 220 V, 100 Pa low fan speed

	P40	P50	P63	P71	P80	P100	P125	P140	P200	P250
PEFY-P VMH(S)	AC motor								DC motor	
PEFY-P VMHS	DC motor									

Reduced weight

By downsizing the motor, the unit weight has been reduced, offering easier installation.

• Weight comparison



Drain pumps (sold separately) with a DC motor are now also available.

The use of a high-efficiency DC motor for the drain pump motor in the latest models reduces power consumption by 90%, in comparison to conventional models. The pump head height of 550 mm provides for greater piping design flexibility.

Four levels of external static pressure settings

While the conventional models only had three levels of external static pressure, the latest models offer four levels of external static pressure. The additional external static pressure capacity provides flexibility for duct extension, branching and air outlet configuration.

		P40	P50	P63	P71	P80	P100	P125	P140
PEFY-P VMH	220 V	<50>-100-<200>							
	230, 240 V	<100>-150-<200>							
PEFY-P VMHS	220-240 V	50-<100>-<150>-<200>							

Four levels of external pressure settings

The factory setting of external static pressure is shown without brackets (< >).

Refer to "Fan characteristics curves" according to the external static pressure, in the DATA BOOK for the usable range of airflow rate.

Three fan speeds (Low/Mid/High) to choose from

The conventional models had two levels of fan speed, but the latest models offer three levels (Low/Mid/High). Combined with a wider selection of external static pressure levels, the latest models offer optimal operation settings to suit the air-conditioning load of the installation space.

Ceiling concealed type **R410A**

High static pressure **PEFY-P VMHS-E**

		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 (Nominal)	*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		0.055		0.090		0.075		0.090		0.160		0.160		
	*2	Current input (220-230-240 V)	A		0.41 - 0.39 - 0.38		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		1.05 - 1.01 - 0.96		
Heating capacity (Nominal)	*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		0.055		0.090		0.075		0.090		0.160		0.160		
	*2	Current input (220-230-240 V)	A		0.41 - 0.39 - 0.38		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		1.05 - 1.01 - 0.96		
External finish		Galvanized steel plate																	
External dimension H x W x D	mm		380 x 745 x 900		380 x 745 x 900		380 x 745 x 900		380 x 1,030 x 900		380 x 1,030 x 900		380 x 1,195 x 900		380 x 1,195 x 900		380 x 1,195 x 900		
	in.		15 x 29-3/8 x 35-7/16		15 x 29-3/8 x 35-7/16		15 x 29-3/8 x 35-7/16		15 x 40-9/16 x 35-7/16		15 x 40-9/16 x 35-7/16		15 x 47-1/16 x 35-7/16		15 x 47-1/16 x 35-7/16		15 x 47-1/16 x 35-7/16		
Net weight		kg (lbs)		35 (78)		35 (78)		35 (78)		45 (100)		45 (100)		51 (113)		51 (113)		53 (117)	
Heat exchanger		Cross fin (Aluminum fin and copper tube)																	
FAN	Type x Quantity		Sirocco fan x 1		Sirocco fan x 1		Sirocco fan x 1		Sirocco fan x 2		Sirocco fan x 2		Sirocco fan x 2		Sirocco fan x 2		Sirocco fan x 2		
	*4 External static press.	Pa	50 - <100> - <150> - <200>		50 - <100> - <150> - <200>		50 - <100> - <150> - <200>		50 - <100> - <150> - <200>		50 - <100> - <150> - <200>		50 - <100> - <150> - <200>		50 - <100> - <150> - <200>		50 - <100> - <150> - <200>		
		mmH ₂ O	5.1 - <10.2> - <15.3> - <20.4>		5.1 - <10.2> - <15.3> - <20.4>		5.1 - <10.2> - <15.3> - <20.4>		5.1 - <10.2> - <15.3> - <20.4>		5.1 - <10.2> - <15.3> - <20.4>		5.1 - <10.2> - <15.3> - <20.4>		5.1 - <10.2> - <15.3> - <20.4>		5.1 - <10.2> - <15.3> - <20.4>		
	Motor Type		DC motor																
	Motor output	kW	0.121		0.121		0.121		0.244		0.244		0.375		0.375		0.375		
	Driving mechanism		Direct-driven by motor																
	Airflow rate (Lo-Mid-Hi)	m ³ /min	10.0 - 12.0 - 14.0		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		26.5 - 32.0 - 38.0		28.0 - 34.0 - 40.0		
		L/s	167 - 200 - 233		167 - 200 - 233		225 - 267 - 317		258 - 300 - 367		300 - 358 - 417		442 - 533 - 633		442 - 533 - 633		467 - 567 - 667		
		cfm	353 - 424 - 494		353 - 424 - 494		477 - 565 - 671		547 - 636 - 777		636 - 759 - 883		936 - 1,130 - 1,342		936 - 1,130 - 1,342		989 - 1,201 - 1,412		
Sound pressure level (measured in anechoic room)		*2 dB <A>	20-23-27		20-23-27		24-27-32		24-26-30		25-27-30		27-31-34		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	Liquid	mm (in.)	6.35 (1/4) Brazed		6.35 (1/4) Brazed		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		9.52 (3/8) Brazed		
	Gas	mm (in.)	12.7 (1/2) Brazed		12.7 (1/2) Brazed		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		15.88 (5/8) Brazed		
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)		O.D.32 (1-1/4)		O.D.32 (1-1/4)		O.D.32 (1-1/4)		

		PEFY-P200VMHS-E		PEFY-P250VMHS-E		
Power source		1-phase 220-240V 50Hz / 1-phase 220-240V 60Hz				
Cooling capacity	*1	kW	22.4		28.0	
	*1	BTU/h	76,400		95,500	
Heating capacity	*3	kW	25.0		31.5	
	*3	BTU/h	85,300		107,500	
Power consumption	*2 Cooling	kW	0.63		0.82	
	Heating	kW	0.63		0.82	
Current	Cooling 220-230-240V	A	3.47-3.32-3.18		4.72-4.43-4.14	
	Heating 220-230-240V	A	3.47-3.32-3.18		4.72-4.43-4.14	
External finish		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)	97 (214)		100 (221)	
Heat exchanger		Cross fin (Aluminum plate fin and copper tube)				
FAN	Type x Quantity		Sirocco fan x 2			
	*4 Airflow rate (Lo-Mid-Hi)	m ³ /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 press.	Pa	<50>-<100>-150-<200>-<250>			
mmH ₂ O		<5.1>-<10.2>-15.3-<20.4>-<25.5>				
Motor	Type	DC motor				
	Output	kW	0.87		0.87	
Air filter(option)		Synthetic fiber unwoven cloth filter (long life filter) and filter box are recommended.				
Refrigerant pipe diameter	Gas (Braze)	mm (in.)	ø19.05 (ø3/4)		ø22.2 (ø7/8)	
	Liquid (Braze)	mm (in.)	ø9.52 (ø3/8)			
Field drain pipe diameter		mm (in.)	O.D. 32 (1-1/4)			
Sound pressure level (Lo-Mid-Hi)*2		dB<A>	36-39-43		39-42-46	