

## PEFY-P-VMR-E-L/R, PEFY-P-VMS1(L)-E

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# 1. SPECIFICATIONS

Ceiling concealed (Low noise/Low static pressure type)

PEFY-P-VMR-E-L/R, VMS1(L)-E

Model		PEFY-P20VMR-E-L/R	PEFY-P25VMR-E-L/R	PEFY-P32VMR-E-L/R		
Power source		1-phase 220-240V 50Hz / 220-230V 60Hz				
Cooling capacity (Nominal)	*1	kW	2.2	2.8	3.6	
	*1	kcal / h	1,900	2,400	3,100	
	*1	BTU / h	7,500	9,600	12,300	
	*2	kcal / h	2,000	2,500	3,150	
	*4	Power input	kW	0.06 / 0.06	0.06 / 0.06	0.07 / 0.08
*4	Current input	A	0.29 / 0.29 (220V)	0.29 / 0.29 (220V)	0.34 / 0.38 (220V)	
Heating capacity (Nominal )	*3	kW	2.5	3.2	4.0	
	*3	kcal / h	2,200	2,800	3,400	
	*3	BTU / h	8,500	10,900	13,600	
	*4	Power input	kW	0.06 / 0.06	0.06 / 0.06	0.07 / 0.08
	*4	Current input	A	0.29 / 0.29 (220V)	0.29 / 0.29 (220V)	0.34 / 0.38 (220V)
External finish		Galvanized				
External dimension H x W x D		mm	292 x 640 x 580	292 x 640 x 580	292 x 640 x 580	
		in.	11-1/2 x 25-1/4 x 22-7/8	11-1/2 x 25-1/4 x 22-7/8	11-1/2 x 25-1/4 x 22-7/8	
Net weight		kg (lbs)	18 (40)	18 (40)	18 (40)	
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	
	External (220V) static press. (230, 240V)	Pa	5	5	5	
		mmH <sub>2</sub> O	0.5	0.5	0.5	
		Pa	5	5	5	
	*5	mmH <sub>2</sub> O	0.5	0.5	0.5	
	Motor type		1-phase induction motor			
	Motor output		kW	0.018	0.018	0.023
	Driving mechanism		Direct-driven by motor			
	Airflow rate (Low-Mid-High)	m <sup>3</sup> / min	4.8 - 5.8 - 7.9	4.8 - 5.8 - 7.9	4.8 - 5.8 - 9.3	
		L / s	80 - 97 - 132	80 - 97 - 132	80 - 97 - 155	
cfm		170 - 205 - 279	170 - 205 - 279	170 - 205 - 328		
Sound pressure level (Low-Mid-High) (measured in anechoic room)	dB <A>	20 - 25 - 30 * (220V)	20 - 25 - 30 * (220V)	20 - 25 - 33 * (220V)		
	dB <A>	21 - 26 - 32 * (230V)	21 - 26 - 32 * (230V)	21 - 26 - 35 * (230V)		
	*4 dB <A>	22 - 27 - 30 * (240V)	22 - 27 - 30 * (240V)	22 - 27 - 33 * (240V)		
Insulation material		Polystyrene foam, Polyethylene foam, Urethane foam				
Air filter		PP Honeycomb fabric (washable)				
Protection device		Fuse				
Refrigerant control device		LEV				
Connectable outdoor unit		R410A CITY MULTI				
Diameter of refrigerant pipe	Liquid (R410A)	mm (in.)	ø6.35 (ø1/4) Brazed	ø6.35 (ø1/4) Brazed	ø6.35 (ø1/4) Brazed	
	Gas (R410A)	mm (in.)	ø12.7 (ø1/2) Brazed	ø12.7 (ø1/2) Brazed	ø12.7 (ø1/2) Brazed	
Field drain pipe size		mm (in.)	O.D. 26mm (1)			
Drawing	External		IU-KB94-C854	IU-KB94-C854	IU-KB94-C854	
	Wiring		IU-KB94-C858	IU-KB94-C858	IU-KB94-C858	
	Refrigerant cycle		-	-	-	
Standard attachment	Document		Installation Manual, Instruction Book			
	Accessory		Drain hose I.D. 26mm (1) (flexible joint)			
Remark		* Above sound pressure level is tested in rear air inlet case. It will be a little higher in bottom air inlet case.				
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 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 Nominal cooling conditions 27°CDB/19.5°CWB (81°FDB/67°FWB) 35°CDB (95°FDB) 5 m (16-3/8 ft) 0 m (0 ft)	*3 Nominal heating conditions 20°CDB (68°FDB) 7°CDB/6°CWB (45°FDB/43°FWB) 7.5 m (24-9/16 ft) 0 m (0 ft)	Unit converter kcal/h = kW x 860 BTU/h = kW x 3,412 cfm = m <sup>3</sup> /min x 35.31 lbs = kg / 0.4536	
		* Nominal conditions *1, *3 are subject to JIS B8615-2. * Due to continuing improvement, above specification may be subject to change without notice. *4 The values are measured at the factory setting of external static pressure. *5 The external static pressure is set to 5 Pa and 0.5 mmH <sub>2</sub> O.			*Above specification data is subject to rounding variation.	

# 1. SPECIFICATIONS

Ceiling concealed (Low noise/Low static pressure type)

PEFY-P-VMR-E-L/R, VMS1(L)-E

Model		PEFY-P15VMS1(L)-E	PEFY-P20VMS1(L)-E	PEFY-P25VMS1(L)-E	PEFY-P32VMS1(L)-E	
Power source		220-240V (50/60Hz)				
Cooling capacity (Nominal)	*1 kW	1.7	2.2	2.8	3.6	
	*1 kcal / h	1,450	1,900	2,400	3,100	
	*1 BTU / h	5,800	7,500	9,600	12,300	
	*2 kcal / h	1,500	2,000	2,500	3,150	
	*4 Power input kW	0.05<0.03>	0.05<0.03>	0.06<0.04>	0.07<0.05>	
*4 Current input A	0.42<0.31>	0.47<0.36>	0.50<0.39>	0.50<0.39>		
Heating capacity (Nominal)	*3 kW	1.9	2.5	3.2	4.0	
	*3 kcal / h	1,600	2,200	2,800	3,400	
	*3 BTU / h	6,500	8,500	10,900	13,600	
	*4 Power input kW	0.03<0.03>	0.03<0.03>	0.04<0.04>	0.05<0.05>	
	*4 Current input A	0.31<0.31>	0.36<0.36>	0.39<0.39>	0.39<0.39>	
External finish		Galvanized				
External dimension H x W x D		mm	200 x 790 x 700	200 x 790 x 700	200 x 790 x 700	200 x 790 x 700
		in.	7-7/8 x 31-1/8 x 27-9/16	7-7/8 x 31-1/8 x 27-9/16	7-7/8 x 31-1/8 x 27-9/16	7-7/8 x 31-1/8 x 27-9/16
Net weight		kg (lbs)	19(42)<18(40)>	19(42)<18(40)>	19(42)<18(40)>	20(44)<19(42)>
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 2
	External (220V) static press. (230, 240V)	Pa	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>
		mmH <sub>2</sub> O	<0.5> - 1.5 - <3.6> - <5.1>	<0.5> - 1.5 - <3.6> - <5.1>	<0.5> - 1.5 - <3.6> - <5.1>	<0.5> - 1.5 - <3.6> - <5.1>
		Pa	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>
	*5 mmH <sub>2</sub> O	<0.5> - 1.5 - <3.6> - <5.1>	<0.5> - 1.5 - <3.6> - <5.1>	<0.5> - 1.5 - <3.6> - <5.1>	<0.5> - 1.5 - <3.6> - <5.1>	
	Motor type		DC motor			
	Motor output kW		0.096	0.096	0.096	0.096
	Driving mechanism		Direct-driven			
	Airflow rate (Low-Mid-High)	m <sup>3</sup> / min	5 - 6 - 7	5.5 - 6.5 - 8	5.5 - 7 - 9	6 - 8 - 10
		L / s	83 - 100 - 117	91 - 108 - 133	91 - 117 - 150	100 - 133 - 167
cfm		176 - 212 - 247	194 - 229 - 282	194 - 247 - 317	212 - 282 - 353	
Sound pressure level (Low-Mid-High) (measured in anechoic room)		*4 dB <A>	22 - 24 - 28(15Pa,220-240V)	23 - 25 - 29(15Pa,220-240V)	24 - 26 - 30(15Pa,220-240V)	24 - 27 - 32(15Pa,220-240V)
Insulation material		Polystyrene foam, Polyethylene foam, Urethane foam				
Air filter		PP Honeycomb fabric (washable)				
Protection device		Fuse				
Refrigerant control device		LEV				
Connectable outdoor unit		R410A CITY MULTI				
Diameter of refrigerant pipe	Liquid (R410A)	mm (in.)	ø6.35 (ø1/4) Brazed	ø6.35 (ø1/4) Brazed	ø6.35 (ø1/4) Brazed	ø6.35 (ø1/4) Brazed
	Gas (R410A)	mm (in.)	ø12.7 (ø1/2) Brazed	ø12.7 (ø1/2) Brazed	ø12.7 (ø1/2) Brazed	ø12.7 (ø1/2) Brazed
Field drain pipe size		mm (in.)	O.D. 32mm (1-1/4)			
Drawing	External		IU-KB94-G728<IU-KB94-G731>	IU-KB94-G728<IU-KB94-G731>	IU-KB94-G728<IU-KB94-G731>	IU-KB94-G728<IU-KB94-G731>
	Wiring		IU-KB94-G668	IU-KB94-G668	IU-KB94-G668	IU-KB94-G668
	Refrigerant cycle		-	-	-	-
Standard attachment	Document		Installation Manual, Instruction Book			
	Accessory		Drain hose (flexible joint)			
Remark	Optional parts					
	Drain pump		<PAC-KE07DM-E>	<PAC-KE07DM-E>	<PAC-KE07DM-E>	<PAC-KE07DM-E>
	Control Box Replace kit		<PAC-KE70HS-E>	<PAC-KE70HS-E>	<PAC-KE70HS-E>	<PAC-KE70HS-E>
	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 conditions		*2 Nominal cooling conditions		*3 Nominal heating conditions	
	Indoor : 27°CDB/19°CWB (81°FDB/66°FWB)		27°CDB/19.5°CWB (81°FDB/67°FWB)		20°CDB (68°FDB)	
	Outdoor : 35°CDB (95°FDB)		35°CDB (95°FDB)		7°CDB/6°CWB (45°FDB/43°FWB)	
	Pipe length : 7.5 m (24-9/16 ft)		5 m (16-3/8 ft)		7.5 m (24-9/16 ft)	
	Level difference : 0 m (0 ft)		0 m (0 ft)		0 m (0 ft)	
* Nominal conditions *1, *3 are subject to JIS B8615-2.		* The external static pressure is set to 15 Pa at factory shipment.		* Above specification data is subject to rounding variation.		
* Due to continuing improvement, above specification may be subject to change without notice.		* < > is in case of PEFY-P-VMS1L-E model.				
*4 The values are measured at the factory setting of external static pressure.						
*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.						
				Unit converter		
				kcal/h = kW x 860		
				BTU/h = kW x 3,412		
				cfm = m <sup>3</sup> /min x 35.31		
				lbs = kg / 0.4536		

# 1. SPECIFICATIONS

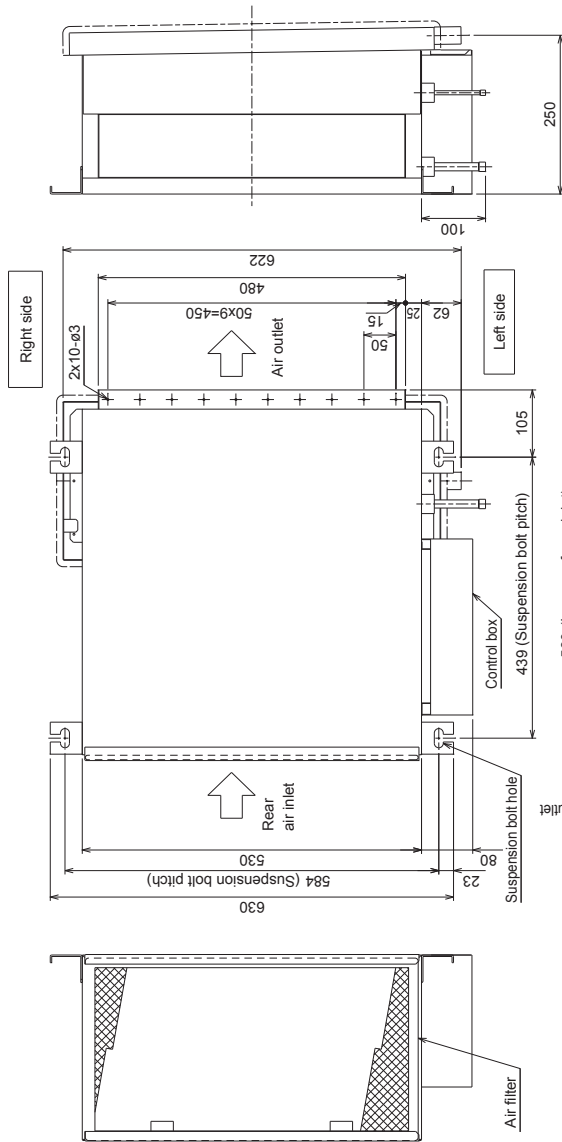
Ceiling concealed (Low noise/Low static pressure type)

PEFY-P-VMR-E-L/R, VMS1(L)-E

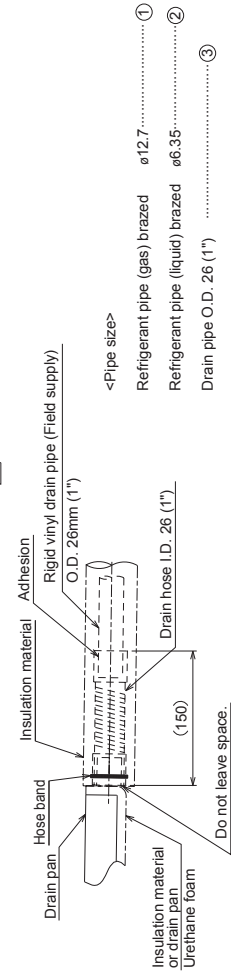
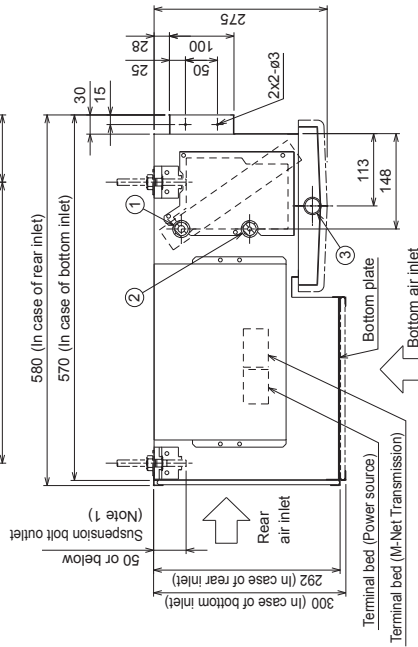
Model		PEFY-P40VMS1(L)-E	PEFY-P50VMS1(L)-E	PEFY-P63VMS1(L)-E		
Power source		220-240V (50/60Hz)				
Cooling capacity (Nominal)	*1	kW	4.5	5.6	7.1	
	*1	kcal / h	3,900	4,800	6,100	
	*1	BTU / h	15,400	19,100	24,200	
	*2	kcal / h	4,000	5,000	6,300	
	*4	Power input	kW	0.07<0.05>	0.09<0.07>	0.09<0.07>
*4	Current input	A	0.56<0.45>	0.67<0.56>	0.72<0.61>	
Heating capacity (Nominal)	*3	kW	5.0	6.3	8.0	
	*3	kcal / h	4,300	5,400	6,900	
	*3	BTU / h	17,100	21,500	27,300	
	*4	Power input	kW	0.05<0.05>	0.07<0.07>	0.07<0.07>
	*4	Current input	A	0.45<0.45>	0.56<0.56>	0.61<0.61>
External finish		Galvanized				
External dimension H x W x D		mm	200 x 990 x 700	200 x 990 x 700	200 x 1190 x 700	
		in.	7-7/8 x 39 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		kg (lbs)	24(53)<23(51)>	24(53)<23(51)>	28(62)<27(60)>	
Heat exchanger		Cross fin (Aluminum fin and copper tube)				
FAN	Type x Quantity		Sirocco fan x 3	Sirocco fan x 3	Sirocco fan x 4	
	External (220V) static press. (230, 240V)	Pa	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>	
		mmH <sub>2</sub> O	<0.5> - 1.5 - <3.6> - <5.1>	<0.5> - 1.5 - <3.6> - <5.1>	<0.5> - 1.5 - <3.6> - <5.1>	
		Pa	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>	
	*5	mmH <sub>2</sub> O	<0.5> - 1.5 - <3.6> - <5.1>	<0.5> - 1.5 - <3.6> - <5.1>	<0.5> - 1.5 - <3.6> - <5.1>	
	Motor type		DC motor			
	Motor output		kW	0.096	0.096	0.096
	Driving mechanism		Direct-driven			
	Airflow rate (Low-Mid-High)	m <sup>3</sup> / min		8 - 9.5 - 11	9.5 - 11 - 13	12 - 14 - 16.5
		L / s		133 - 158 - 183	158 - 183 - 217	200 - 233 - 275
cfm		282 - 335 - 388	335 - 388 - 459	424 - 494 - 583		
Sound pressure level (Low-Mid-High) (measured in anechoic room)		dB <A>	28 - 30 - 33 (15Pa,220-240V)	30 - 32 - 35 (15Pa,220-240V)	30 - 33 - 36 (15Pa,220-240V)	
Insulation material		Polystyrene foam, Polyethylene foam, Urethane foam				
Air filter		PP Honeycomb fabric (washable)				
Protection device		Fuse				
Refrigerant control device		LEV				
Connectable outdoor unit		R410A CITY MULTI				
Diameter of refrigerant pipe	Liquid (R410A)	mm (in.)	ø6.35 (ø1/4) Brazed	ø6.35 (ø1/4) Brazed	ø9.52 (ø3/8) Brazed	
	Gas (R410A)	mm (in.)	ø12.7 (ø1/2) Brazed	ø12.7 (ø1/2) Brazed	ø15.88 (ø5/8) Brazed	
Field drain pipe size		mm (in.)	O.D. 32mm (1-1/4)			
Drawing	External		IU-KB94-G728(IU-KB94-G731)	IU-KB94-G728(IU-KB94-G731)	IU-KB94-G728(IU-KB94-G731)	
	Wiring		IU-KB94-G668	IU-KB94-G668	IU-KB94-G668	
	Refrigerant cycle		-	-	-	
Standard attachment	Document	Installation Manual, Instruction Book				
	Accessory	Drain hose (flexible joint)				
Remark	Optional parts					
	Drain pump	<PAC-KE07DM-E>	<PAC-KE07DM-E>	<PAC-KE07DM-E>		
	Control Box Replace kit	<PAC-KE70HS-E>	<PAC-KE70HS-E>	<PAC-KE70HS-E>		
Installation		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.				
<b>Note :</b>		*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 Nominal cooling conditions 27°CDB/19.5°CWB (81°FDB/67°FWB) 35°CDB (95°FDB) 5 m (16-3/8 ft) 0 m (0 ft)	*3 Nominal heating conditions 20°CDB (68°FDB) 7°CDB/6°CWB (45°FDB/43°FWB) 7.5 m (24-9/16 ft) 0 m (0 ft)	Unit converter kcal/h = kW x 860 BTU/h = kW x 3,412 cfm = m <sup>3</sup> /min x 35.31 lbs = kg / 0.4536	
* Nominal conditions *1, *3 are subject to JIS B8615-2.		* Due to continuing improvement, above specification may be subject to change without notice.		* The external static pressure is set to 15 Pa at factory shipment.	* Above specification data is subject to rounding variation.	
*4 The values are measured at the factory setting of external static pressure.		* < > is in case of PEFY-P-VMS1L-E model.				
*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.				

PEFY-P20,25,32VMR-E-L/R

Unit : mm



- Note 1. Use M10 screw for the suspension bolt (field supply).  
 50mm or below of clearance between the indoor unit top and the end of the suspension bolt will make maintenance of the Indoor heat exchanger easier.
2. Access door of 450mmx450mm at the ceiling under the drain pan should be designed for heat exchanger cleaning and maintenance.
3. This drawing shows the left piping specification. The symmetry shows the right piping specification.  
 Model name: <Left piping> PEFY-P20 · 25 · 32VMR-E-L  
 <Right piping> PEFY-P20 · 25 · 32VMR-E-R
4. Period cleaning of drain pan will prevent water overflowing.  
 Gradient piping design is needed for water draining.
5. The inlet direction can be changed between rear inlet and bottom inlet.  
 Keep the inlet space between the ceiling and the unit in case of bottom inlet.



- <Pipe size>
- Refrigerant pipe (gas) brazed  $\phi 12.7$ .....①
  - Refrigerant pipe (liquid) brazed  $\phi 6.35$ .....②
  - Drain pipe O.D. 26 (1") .....③

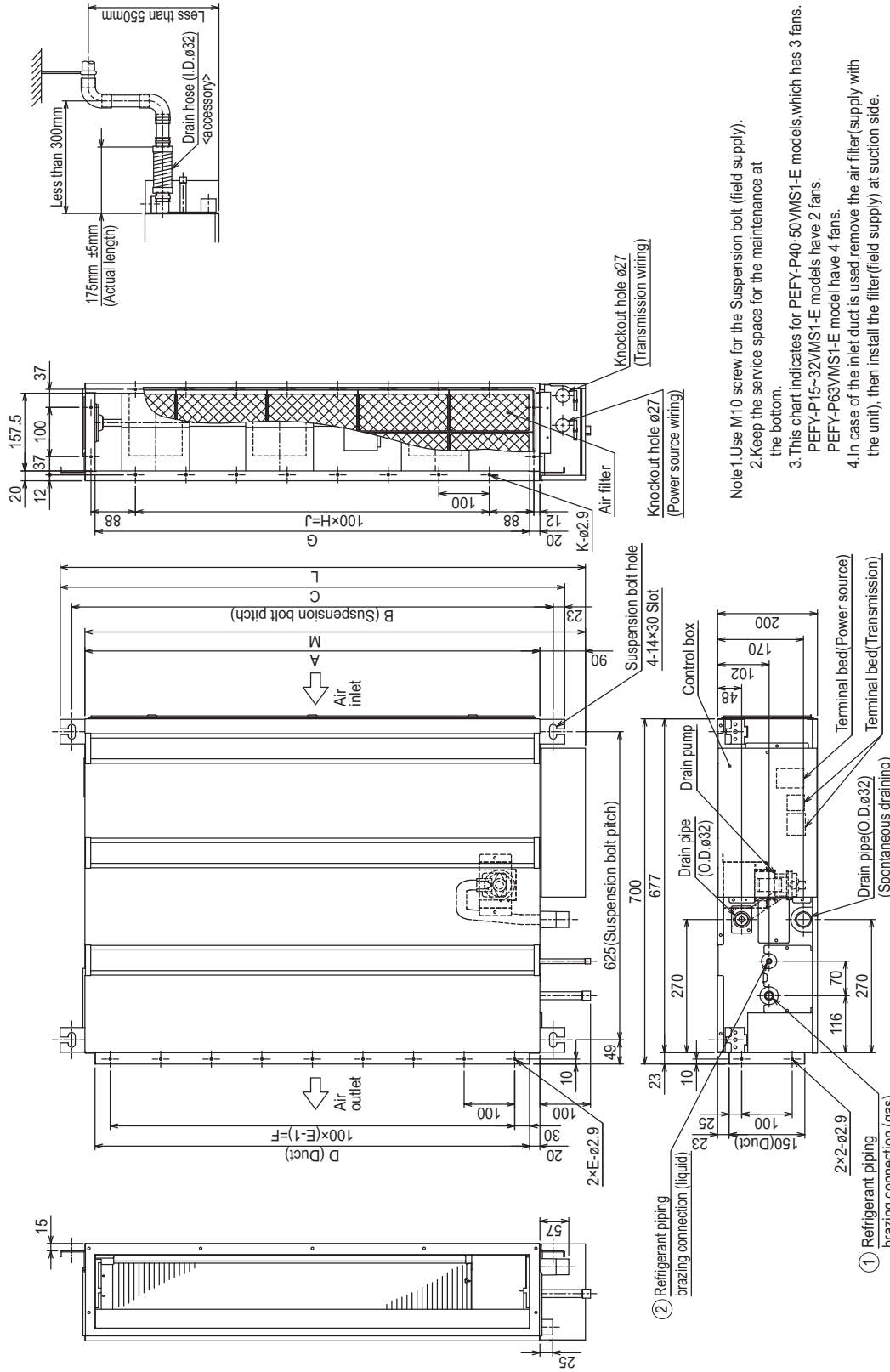
## 2. EXTERNAL DIMENSIONS

Ceiling concealed (Low noise/Low static pressure type)

PEFY-P-VMR-E-L/R, VMS1(L)-E

PEFY-P15, 20, 25, 32, 40, 50, 63VMS1-E

Unit: mm



\*1: R410A outdoor unit  
 \*2: R407C, R22 outdoor unit

Model	A	B	C	D	E	F	G	H	J	K	L	M	① Gas pipe	② Liquid pipe
PEFY-P15,20,25,32VMS1-E	700	752	798	660	7	600	660	5	500	16	839	790	ø12.7	ø6.35
PEFY-P40VMS1-E	900	952	998	860	9	800	860	7	700	20	1039	990	*1	ø6.35
													*2	ø9.52
PEFY-P50VMS1-E	1100	1152	1198	1060	11	1000	1060	9	900	24	1239	1190	ø15.88	ø9.52

PEFY-P15, 20, 25, 32, 40, 50, 63VMS1-E

Unit: mm

[Maintenance access space]  
 Secure enough access space to allow for the maintenance, inspection, and replacement of the motor, fan, drain pump, heat exchanger, and electric box in one of the following ways.  
 Select an installation site for the indoor unit so that its maintenance access space will not be obstructed by beams or other objects.

(1) When a space of 300mm or more is available below the unit between the unit and the ceiling. (Fig.1)

- Create access door 1 and 2 (450x450mm each) as shown in Fig.2.

(Access door 2 is not required if enough space is available below the unit for a maintenance worker to work in.)

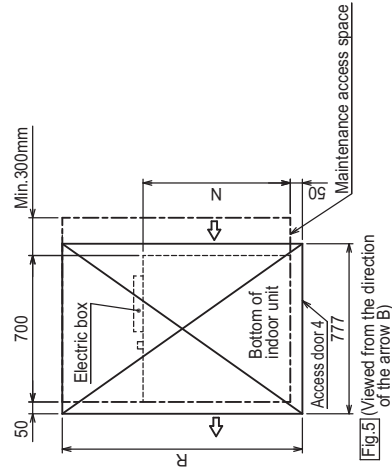
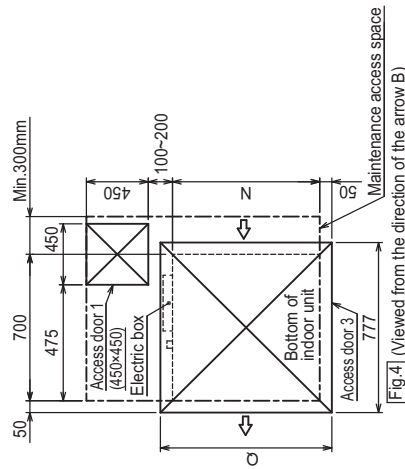
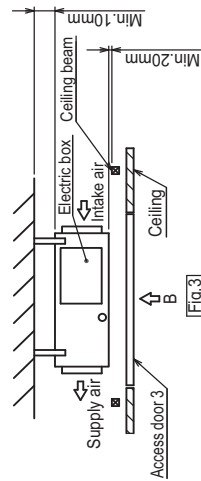
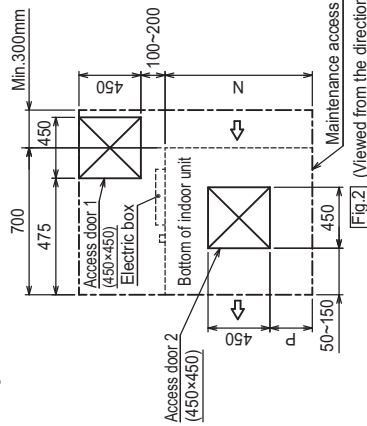
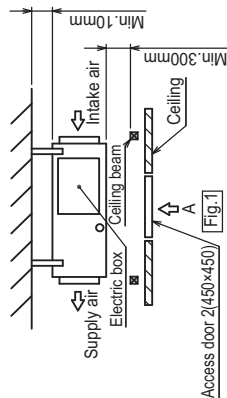
(2) When a space of less than 300mm is available below the unit between the unit and the ceiling.

(At least 20mm of space should be left below the unit as shown in Fig.3.)

- Create access door 1 diagonally below the electric box and access door 3 below the unit as shown in Fig.4.

or

- Create access door 4 below the electric box and the unit as shown in Fig.5.



Model	N	P	Q	R
PEFY-P15, 20, 25, 32VMS1-E	700	50-150	800	1300
PEFY-P40VMS1-E	900	150-250	1000	1500
PEFY-P50VMS1-E			1200	1700
PEFY-P63VMS1-E	1100	250-350	1200	1700

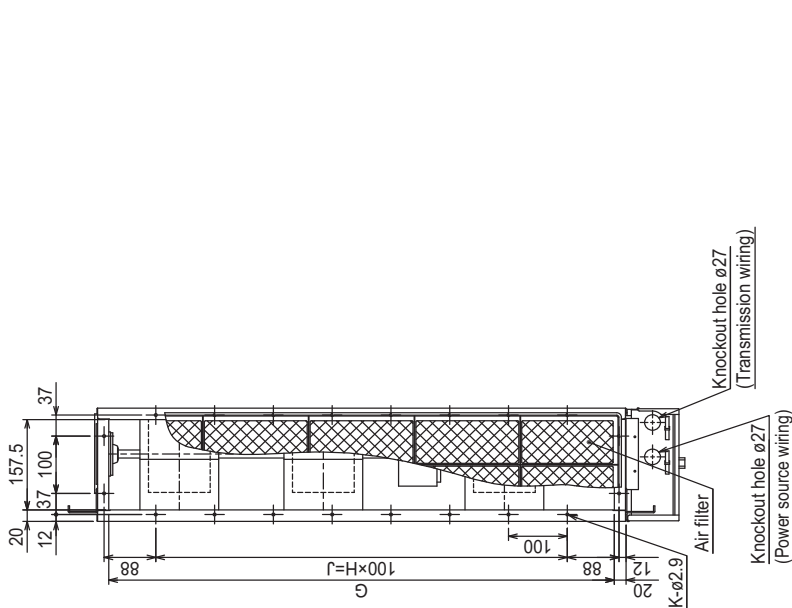
## 2. EXTERNAL DIMENSIONS

Ceiling concealed (Low noise/Low static pressure type)

PEFY-P-VMR-E-L/R, VMS1(L)-E

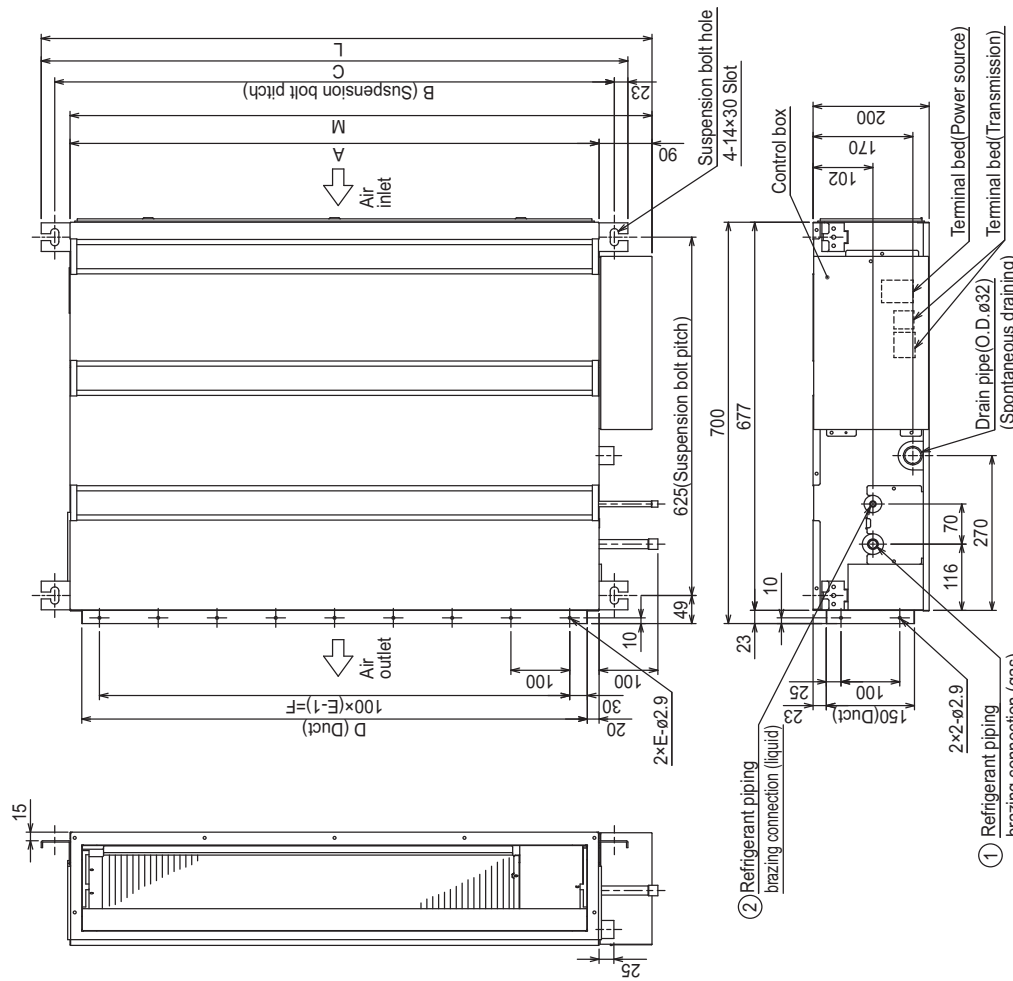
PEFY-P15, 20, 25, 32, 40, 50, 63VMS1L-E

Unit: mm



- Note1 Use M10 screw for the Suspension bolt (field supply).  
 2. Keep the service space for the maintenance at the bottom.  
 3. This chart indicates for PEFY-P40, 50VMS1L-E models, which has 3 fans. PEFY-P15-32VMS1L-E models have 2 fans. PEFY-P63VMS1L-E model have 4 fans.  
 4. In case of the inlet duct is used remove the air filter (supply with the unit), then install the filter (field supply) at suction side.

\*1: R410A outdoor unit  
 \*2: R407C, R22 outdoor unit



Model	A	B	C	D	E	F	G	H	J	K	L	M	① Gas pipe	② Liquid pipe
PEFY-P15, 20, 25, 32VMS1L-E	700	752	798	660	7	600	660	5	500	16	839	790	ø12.7	ø6.35
PEFY-P40VMS1L-E	900	952	998	860	9	800	860	7	700	20	1039	990	*1	ø12.7
													*2	ø15.88
PEFY-P50VMS1L-E	1100	1152	1198	1060	11	1000	1060	9	900	24	1239	1190	*1	ø15.88
													*2	ø9.52
PEFY-P63VMS1L-E	1100	1152	1198	1060	11	1000	1060	9	900	24	1239	1190	ø15.88	ø9.52



PEFY-P15, 20, 25, 32, 40, 50, 63VMS1L-E

Unit: mm

[Maintenance access space]  
 Secure enough access space to allow for the maintenance, inspection, and replacement of the motor, fan, drain pump, heat exchanger, and electric box in one of the following ways.  
 Select an installation site for the indoor unit so that its maintenance access space will not be obstructed by beams or other objects.

(1) When a space of 300mm or more is available below the unit between the unit and the ceiling. (Fig.1)

- Create access door 1 and 2 (450x450mm each) as shown in Fig.2.

(Access door 2 is not required if enough space is available below the unit for a maintenance worker to work in.)

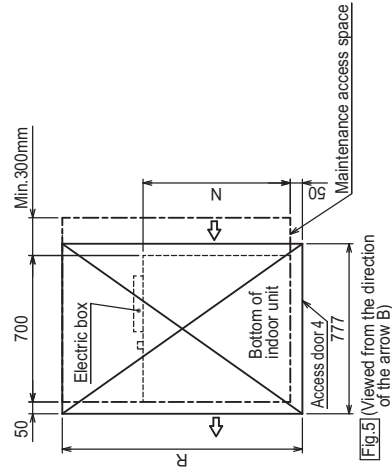
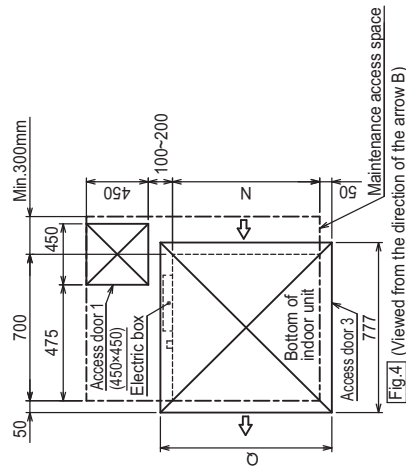
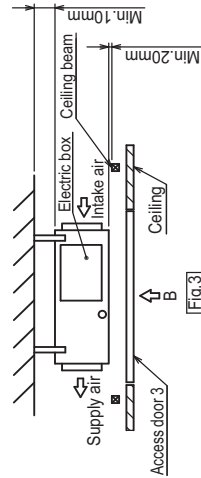
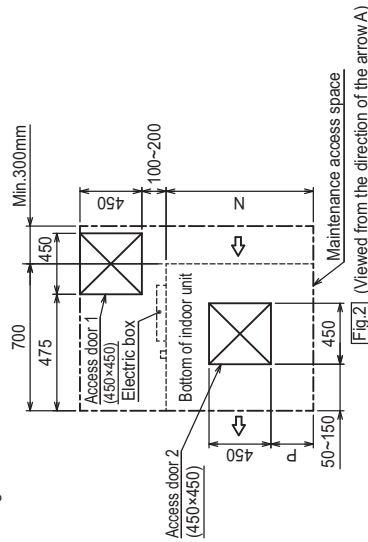
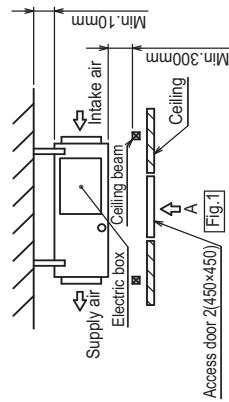
(2) When a space of less than 300mm is available below the unit between the unit and the ceiling.

(At least 20mm of space should be left below the unit as shown in Fig.3.)

- Create access door 1 diagonally below the electric box and access door 3 below the unit as shown in Fig.4.

or

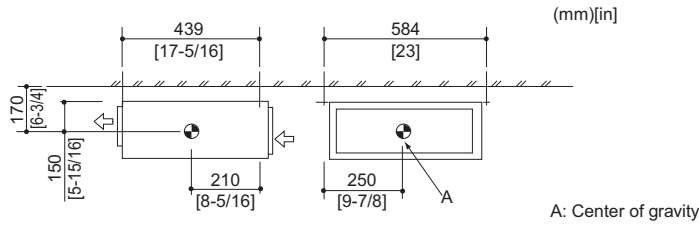
- Create access door 4 below the electric box and the unit as shown in Fig.5.



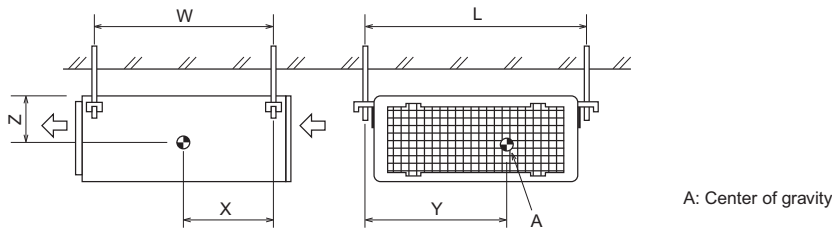
Model	N	P	Q	R
PEFY-P15,20,25,32VMS1L-E	700	50-150	800	1300
PEFY-P40VMS1L-E	900	150-250	1000	1500
PEFY-P50VMS1L-E				
PEFY-P63VMS1L-E	1100	250-350	1200	1700

PEFY-P-VMR-E-L/R, VMS1(L)-E

PEFY-P20, 25, 32VMR-E-L/R



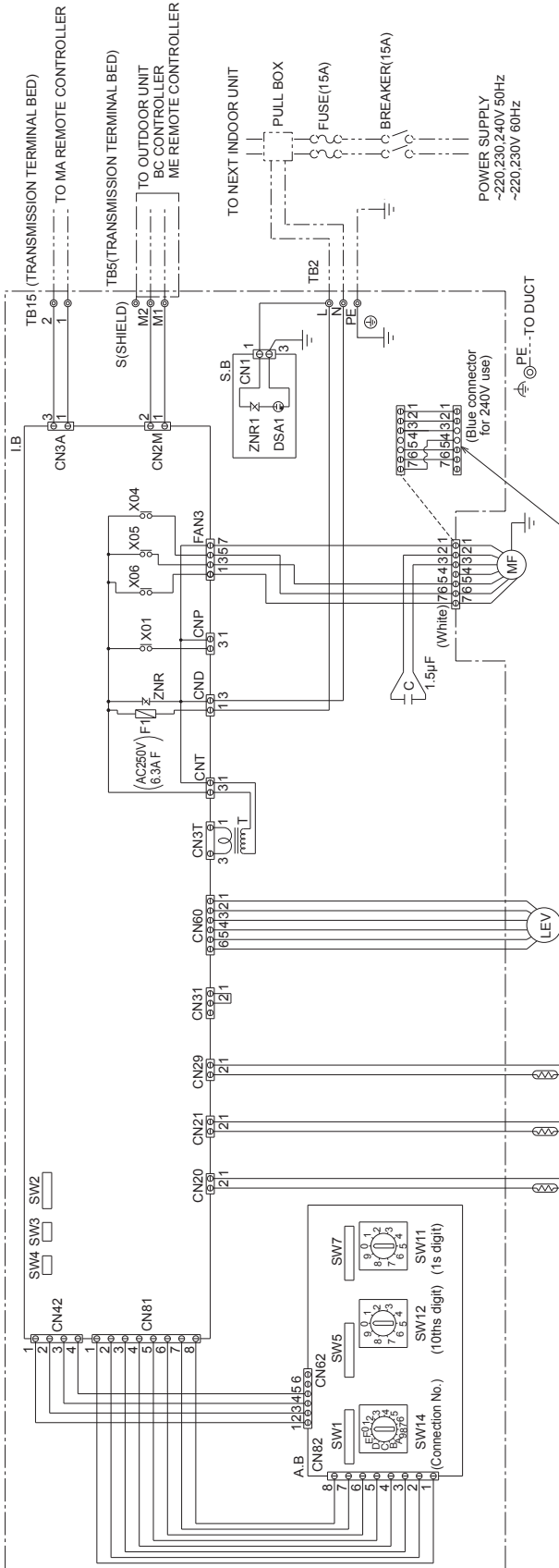
PEFY-P15,20,25,32,40,50,63VMS1(L)-E



Model name	W	L	X	Y	Z
PEFY-P15VMS1(L)-E	625 [24-5/8]	752 [29-5/8]	263 [10-3/8]	338 [13-5/16]	105 [4-5/32]
PEFY-P20VMS1(L)-E	625 [24-5/8]	752 [29-5/8]	263 [10-3/8]	338 [13-5/16]	105 [4-5/32]
PEFY-P25VMS1(L)-E	625 [24-5/8]	752 [29-5/8]	263 [10-3/8]	338 [13-5/16]	105 [4-5/32]
PEFY-P32VMS1(L)-E	625 [24-5/8]	752 [29-5/8]	275 [10-27/32]	340 [13-13/32]	104 [4-1/8]
PEFY-P40VMS1(L)-E	625 [24-5/8]	952 [37-1/2]	280 [11-1/32]	422 [16-5/8]	104 [4-1/8]
PEFY-P50VMS1(L)-E	625 [24-5/8]	952 [37-1/2]	280 [11-1/32]	422 [16-5/8]	104 [4-1/8]
PEFY-P63VMS1(L)-E	625 [24-5/8]	1152 [45-3/8]	285 [11-1/4]	511 [20-1/8]	104 [4-1/8]

PEFY-P20,25,32VMR-E-L/R

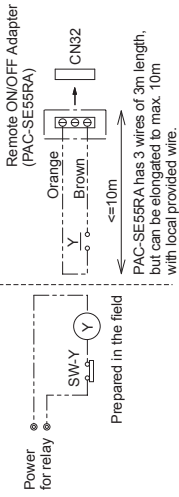
INSIDE SECTION OF CONTROL BOX



SYMBOL EXPLANATION

SYMBOL	NAME	SYMBOL	NAME
MF	Fan motor	TH21	Thermistor (inlet temp.detection)
C	Capacitor (for MF) 1.5µF	TH22	Thermistor (piping temp.detection/liquid)
I.B	Indoor controller board	TH23	Thermistor (piping temp.detection/gas)
A.B	Address board	SW11(A,B)	Switch (1s digit address set)
TB2	Power source terminal bed	SW12(A,B)	Switch (10ths digit address set)
TB5	Transmission terminal bed	SW14(A,B)	Switch (connection No.set)
TB15	Transmission terminal bed	SW1(A,B)	Switch(for mode selection)
F1	Fuse AC250V 6.3A F	SW2(LB)	Switch(for capacity code)
T	Transformer	SW3(LB)	Switch(for mode selection)
LEV	Electronic linear expan. valve	SW4(LB)	Switch(for model selection)
S.B	Surge absorber board	SW5(A,B)	Switch(for voltage selection)
X04~X06	Aux.relay	SW7(A,B)	Switch(for mode selection)

At factory shipment, the motor connector is connected for 220-230V power. If 240V power is used, insert the attached Blue connector between the Motor connector and White connector from indoor board.  
 Connector color: for power source  
 White: 220V,230V  
 Blue: 240V



SW-Y	Status
OFF	Obey to local remote controller (Allowed)
ON	Remote - OFF

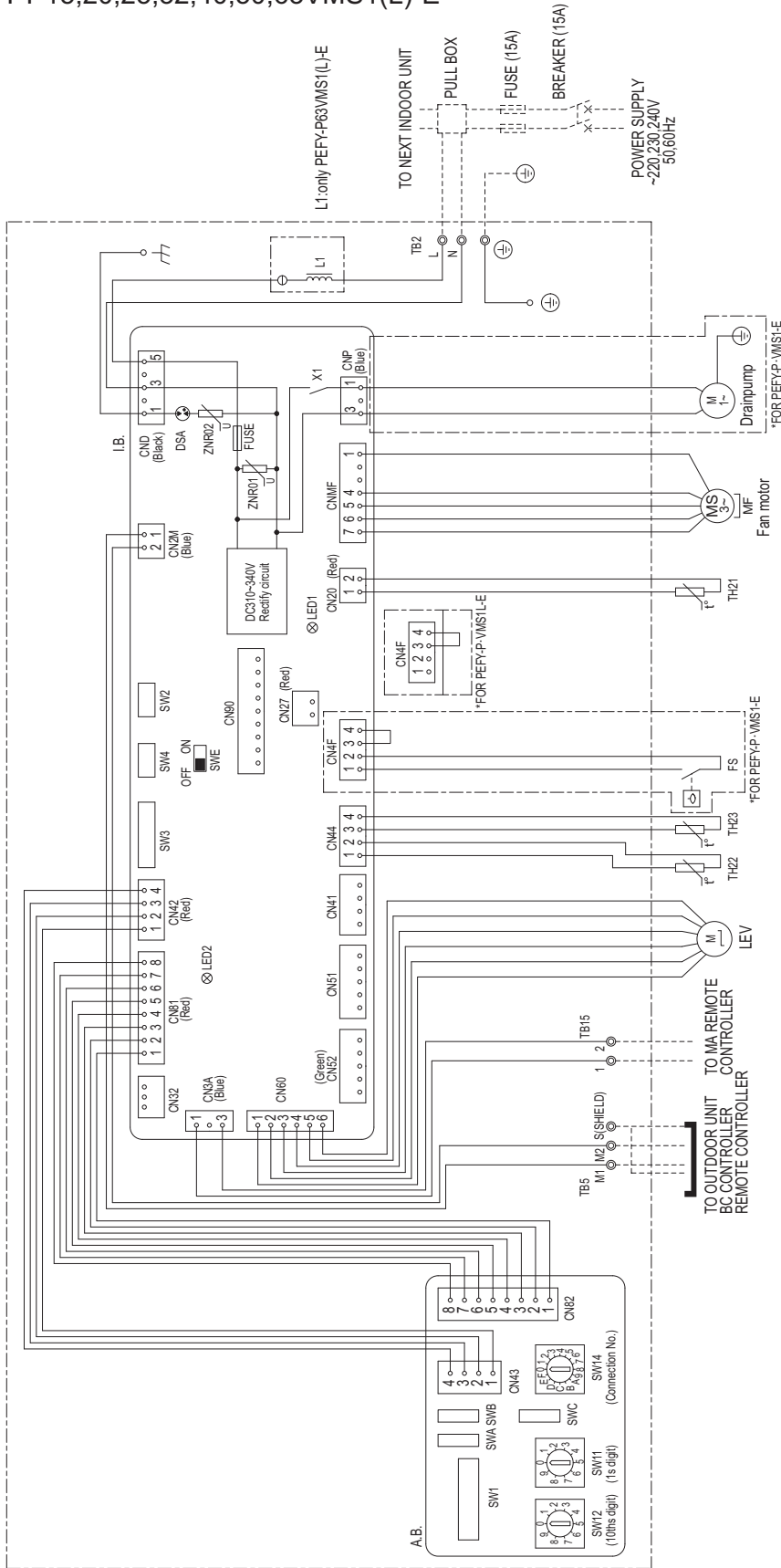
Y: Aux. relay (Load >= 12VDC 1mA)

NOTE-1: The wirings to TB2, TB5 shown in dotted line are field work.  
 2: Mark ⊕ indicates terminal bed, ⊖ connector, ⊕ board insertion connector or fastening connector of control board.

PEFY-P-VMR-E-L/R, VMS1(L)-E

PEFY-P15,20,25,32,40,50,63VMS1(L)-E

INSIDE SECTION OF CONTROL BOX



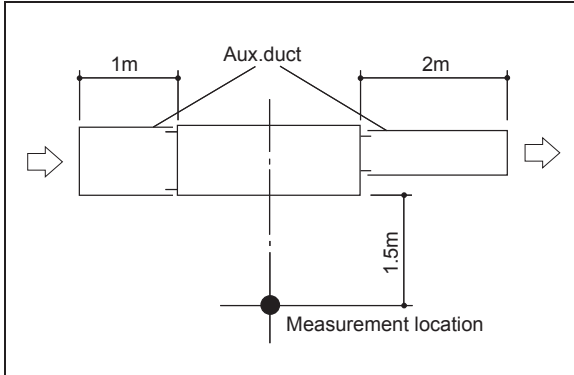
SYMBOL EXPLANATION

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
I.B.	Indoor controller board	SW4(I.B.)	Switch (for model selection)	SW4(I.B.)	Switch (for model selection)
A.B.	Address board	SWE(I.B.)	Connector (HA terminal-A)	SWE(I.B.)	Connector (emergency operation)
TB2	Power source terminal bed	SW1(A.B.)	Switch (for mode selection)	SW1(A.B.)	Switch (for mode selection)
TB5	Transmission terminal bed	SW11(A.B.)	Switch (1s digit address set)	SW11(A.B.)	Switch (1s digit address set)
FUSE	Fuse AC250V 6.3A	SW12(A.B.)	Switch (10ths digit address set)	SW12(A.B.)	Switch (10ths digit address set)
ZNR01,02	Varistor	SW14(A.B.)	Switch (connection No.set)	SW14(A.B.)	Switch (connection No.set)
DSA	Arrester	SWA(A.B.)	Thermistor (inlet air temp.detection)	SWA(A.B.)	Switch (for static pressure selection)
X1	Aux. relay	SWB(A.B.)	Thermistor (piping temp.detection/liquid)	SWB(A.B.)	Switch (for model selection)
L1	AC reactor(Power factor improvement)	SWC(A.B.)	Thermistor (piping temp.detection/gas)	SWC(A.B.)	Switch (for static pressure selection)
CN27	Connector (Damper)	SW2(L.B.)	Switch (for capacity code)	SW2(L.B.)	Switch (for capacity code)
		SW3(L.B.)	Switch (for mode selection)	SW3(L.B.)	Switch (for mode selection)

NOTE:1. The wirings to TB2, TB5, TB15 shown in dotted line are field work.  
2. Mark ⊕ indicates terminal bed, ⊕ connector.

5-1. Sound levels

PEFY-P-VMR-E-L/R, VMS1(L)-E



\* Measured in anechoic room.

Sound level at anechoic room: Low-Mid-High

		Sound level dB (A)		
PEFY-P20VMR-E-L/R	220V	20 - 25 - 30		
	230V	21 - 26 - 32		
	240V	22 - 27 - 30		
PEFY-P25VMR-E-L/R	220V	20 - 25 - 30		
	230V	21 - 26 - 32		
	240V	22 - 27 - 30		
PEFY-P32VMR-E-L/R	220V	20 - 25 - 33		
	230V	21 - 26 - 35		
	240V	22 - 27 - 33		

Sound level at anechoic room: Low-Mid-High

		Sound level dB (A)			
		5Pa	15Pa	35Pa	50Pa
PEFY-P15VMS1(L)-E	220-240V	22 - 24 - 26	22 - 24 - 28	23 - 26 - 29	23 - 27 - 30
PEFY-P20VMS1(L)-E	220-240V	22 - 25 - 28	23 - 25 - 29	24 - 27 - 30	25 - 28 - 32
PEFY-P25VMS1(L)-E	220-240V	22 - 25 - 29	23 - 26 - 30	24 - 28 - 31	25 - 29 - 33
PEFY-P32VMS1(L)-E	220-240V	23 - 27 - 30	23 - 27 - 32	24 - 28 - 33	25 - 29 - 34
PEFY-P40VMS1(L)-E	220-240V	26 - 28 - 30	28 - 30 - 33	30 - 32 - 35	31 - 33 - 36
PEFY-P50VMS1(L)-E	220-240V	29 - 31 - 34	30 - 32 - 35	31 - 34 - 37	32 - 34 - 38
PEFY-P63VMS1(L)-E	220-240V	29 - 32 - 35	30 - 33 - 36	31 - 35 - 39	32 - 36 - 40

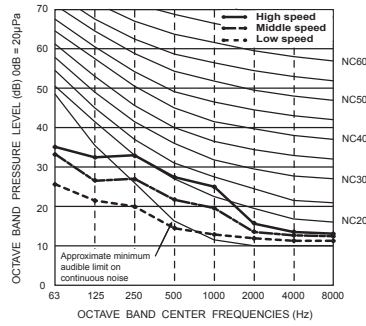
PEFY-P-VMR-E-L/R, VMS1(L)-E

5-2. NC curves

PEFY-P-VMR-E-L/R, VMS1(L)-E

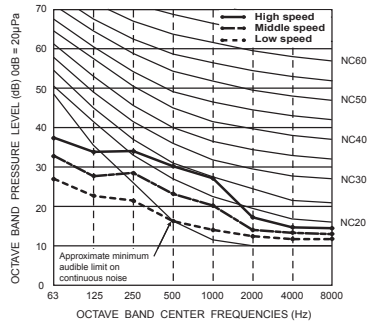
**PEFY-P20,25VMR-E-L/R**

External static pressure : 5Pa  
Power source : 220V, 50/60Hz



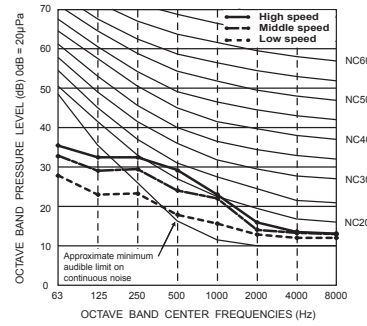
**PEFY-P20,25VMR-E-L/R**

External static pressure : 5Pa  
Power source : 230V, 50/60Hz



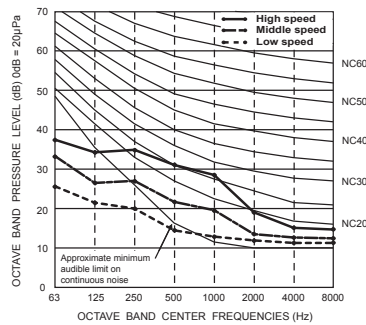
**PEFY-P20,25VMR-E-L/R**

External static pressure : 5Pa  
Power source : 240V, 50Hz



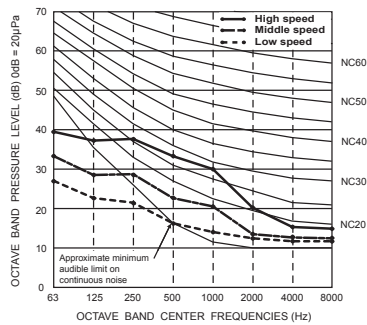
**PEFY-P32VMR-E-L/R**

External static pressure : 5Pa  
Power source : 220V, 50/60Hz



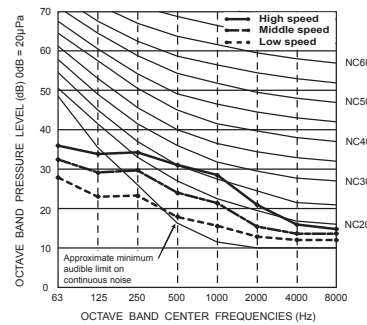
**PEFY-P32VMR-E-L/R**

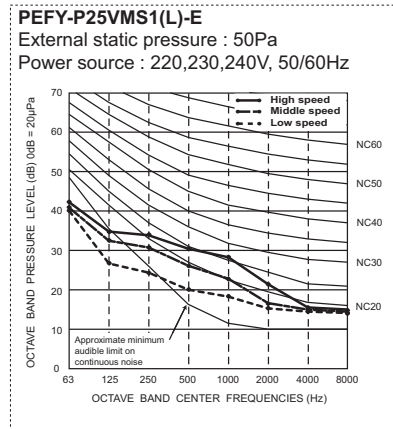
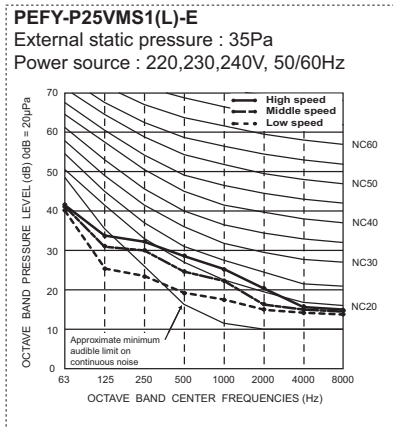
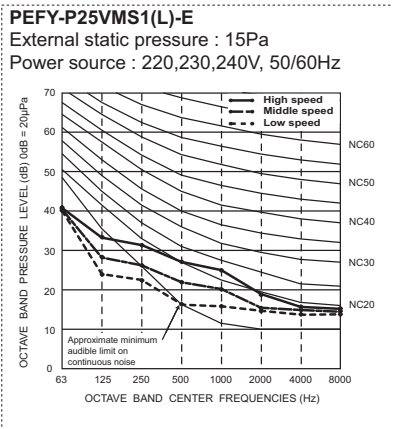
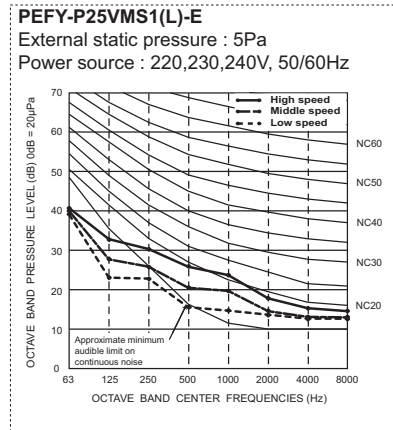
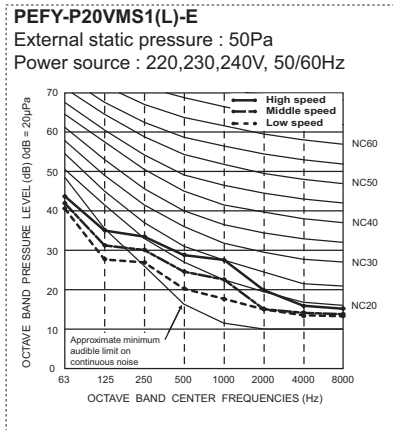
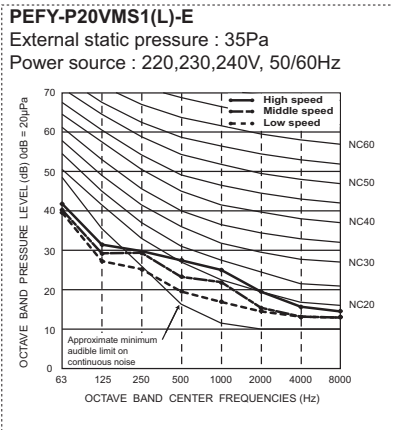
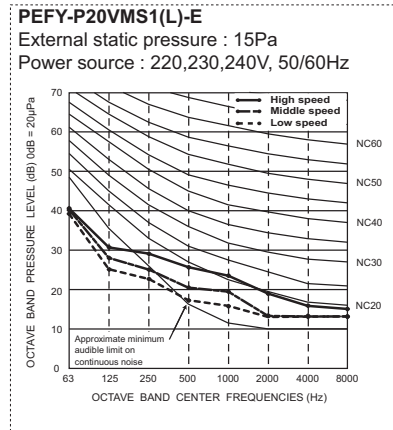
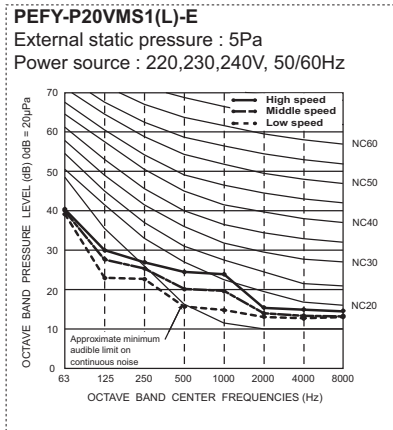
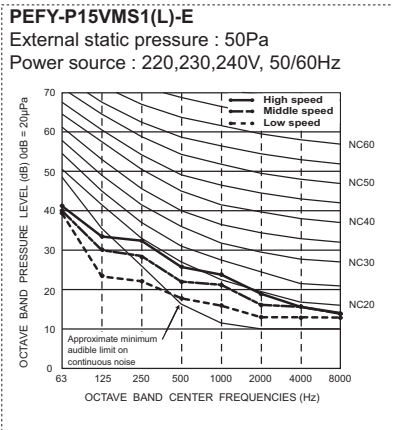
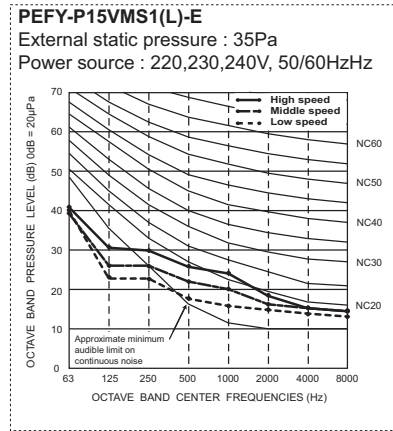
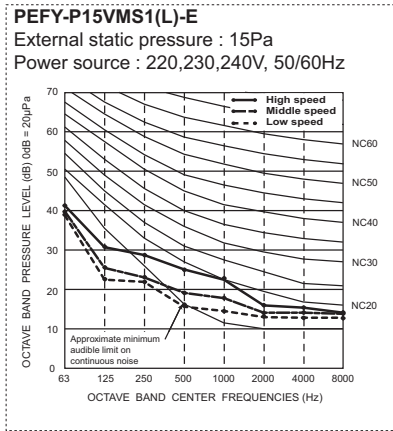
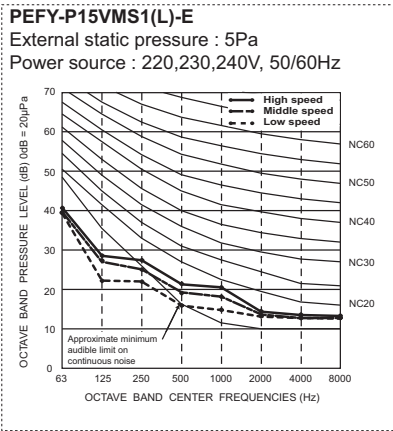
External static pressure : 5Pa  
Power source : 230V, 50/60Hz



**PEFY-P32VMR-E-L/R**

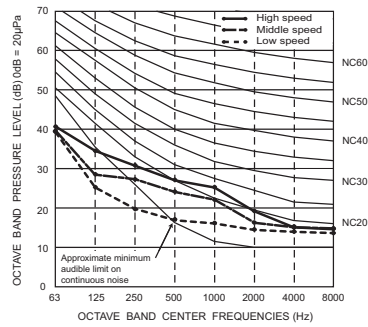
External static pressure : 5Pa  
Power source : 240V, 50Hz



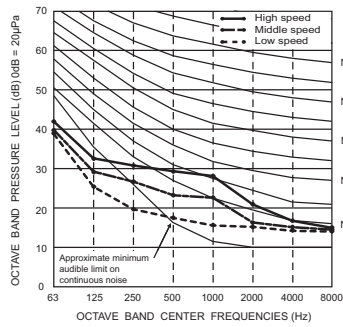


PEFY-P-VMR-E-L/R, VMS1(L)-E

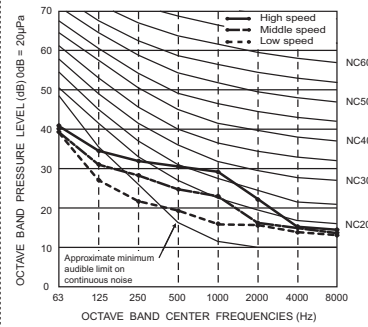
**PEFY-P32VMS1(L)-E**  
 External static pressure : 5Pa  
 Power source : 220,230,240V, 50/60Hz



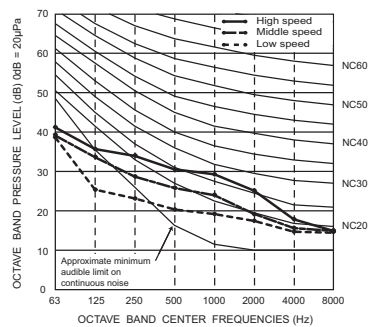
**PEFY-P32VMS1(L)-E**  
 External static pressure : 15Pa  
 Power source : 220,230,240V, 50/60Hz



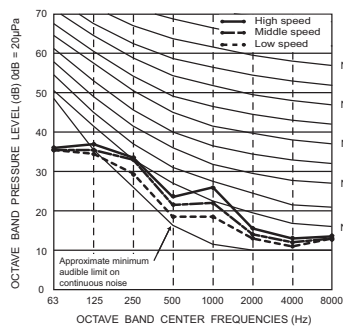
**PEFY-P32VMS1(L)-E**  
 External static pressure : 35Pa  
 Power source : 220,230,240V, 50/60Hz



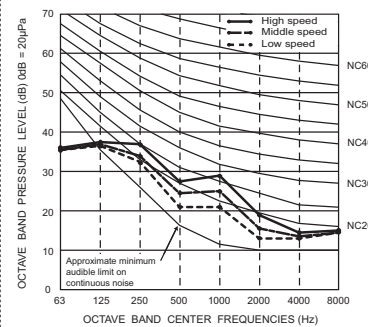
**PEFY-P32VMS1(L)-E**  
 External static pressure : 50Pa  
 Power source : 220,230,240V, 50/60Hz



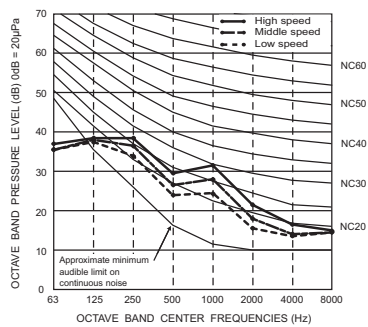
**PEFY-P40VMS1(L)-E**  
 External static pressure : 5Pa  
 Power source : 220,230,240V, 50/60Hz



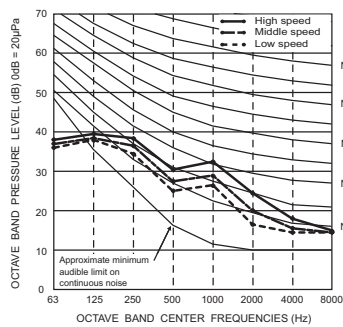
**PEFY-P40VMS1(L)-E**  
 External static pressure : 15Pa  
 Power source : 220,230,240V, 50/60Hz



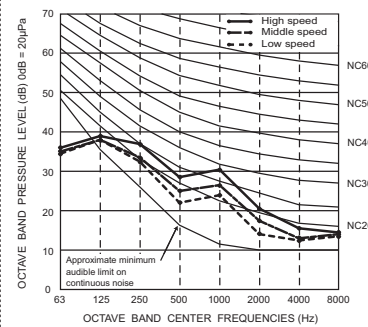
**PEFY-P40VMS1(L)-E**  
 External static pressure : 35Pa  
 Power source : 220,230,240V, 50/60Hz



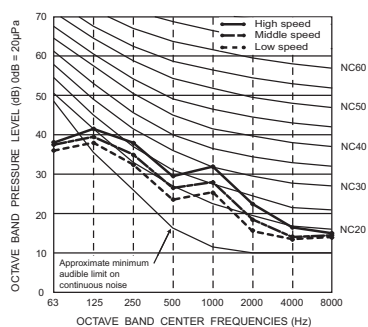
**PEFY-P40VMS1(L)-E**  
 External static pressure : 50Pa  
 Power source : 220,230,240V, 50/60Hz



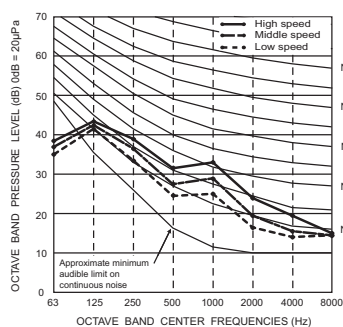
**PEFY-P50VMS1(L)-E**  
 External static pressure : 5Pa  
 Power source : 220,230,240V, 50/60Hz



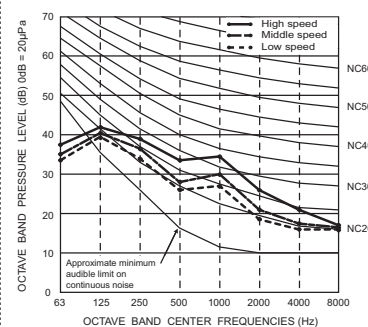
**PEFY-P50VMS1(L)-E**  
 External static pressure : 15Pa  
 Power source : 220,230,240V, 50/60Hz



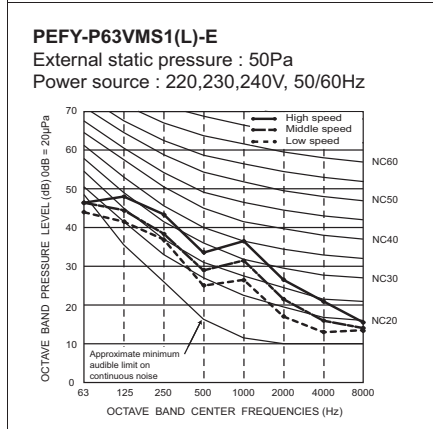
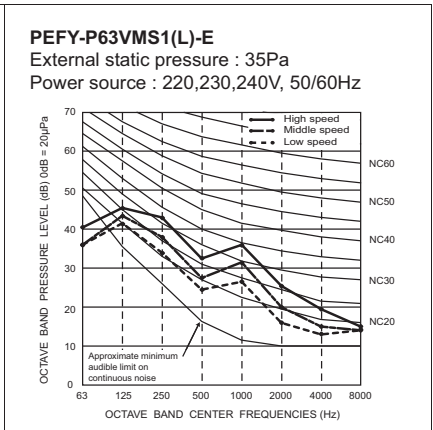
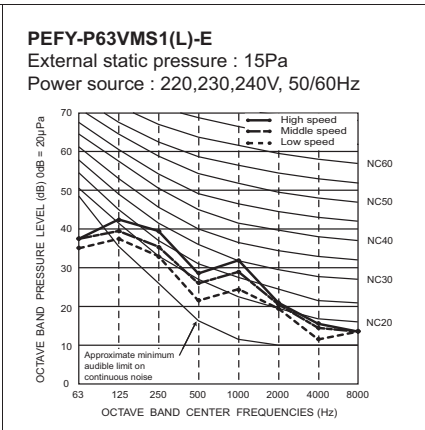
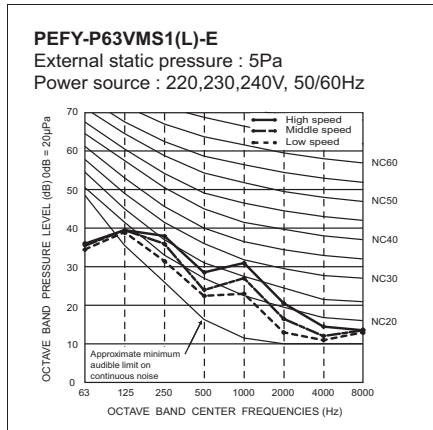
**PEFY-P50VMS1(L)-E**  
 External static pressure : 35Pa  
 Power source : 220,230,240V, 50/60Hz



**PEFY-P50VMS1(L)-E**  
 External static pressure : 50Pa  
 Power source : 220,230,240V, 50/60Hz





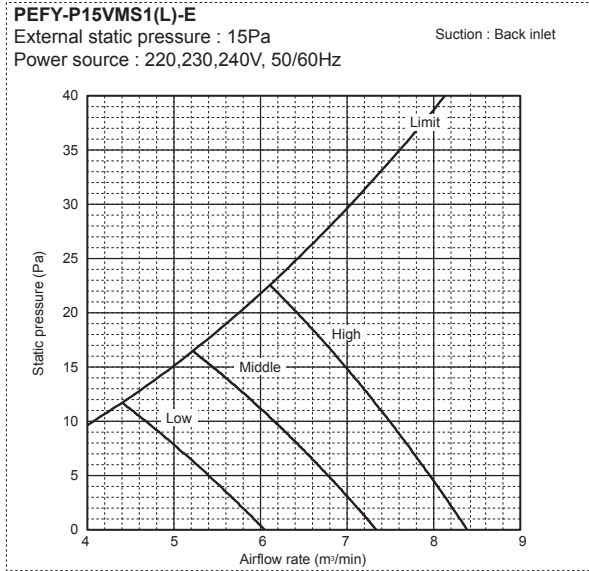
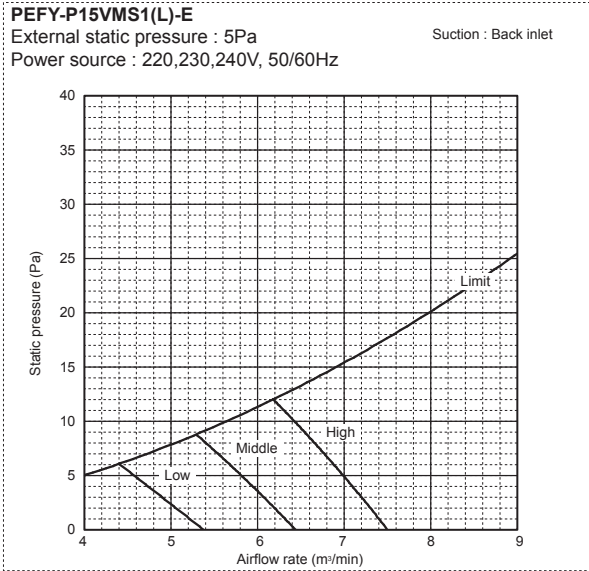
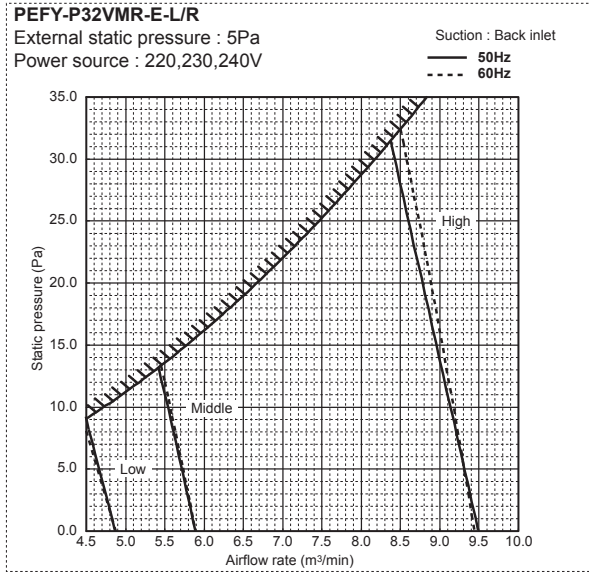
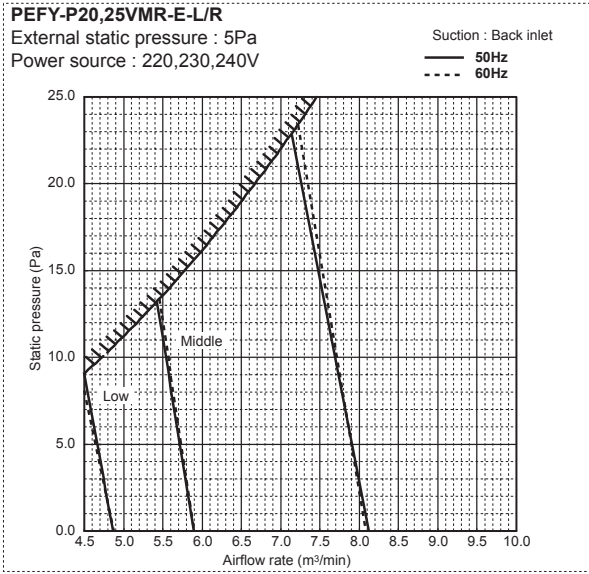


PEFY-P-VMR-E-L/R, VMS1(L)-E

# 6. FAN CHARACTERISTICS CURVES

Ceiling concealed (Low noise/Low static pressure type)

PEFY-P-VMR-E-L/R, VMS1(L)-E



## 6. FAN CHARACTERISTICS CURVES

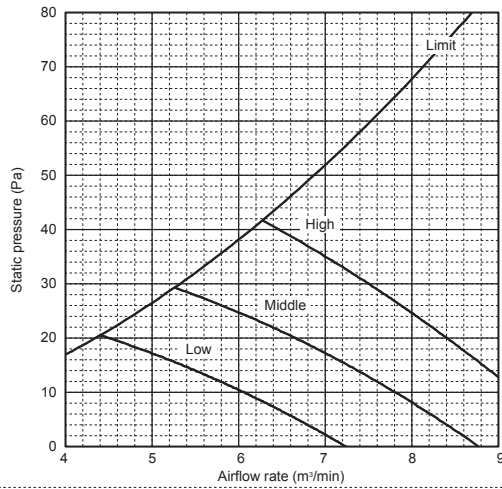
Ceiling concealed (Low noise/Low static pressure type)

PEFY-P-VMR-E-L/R, VMS1(L)-E

### PEFY-P15VMS1(L)-E

External static pressure : 35Pa  
Power source : 220,230,240V, 50/60Hz

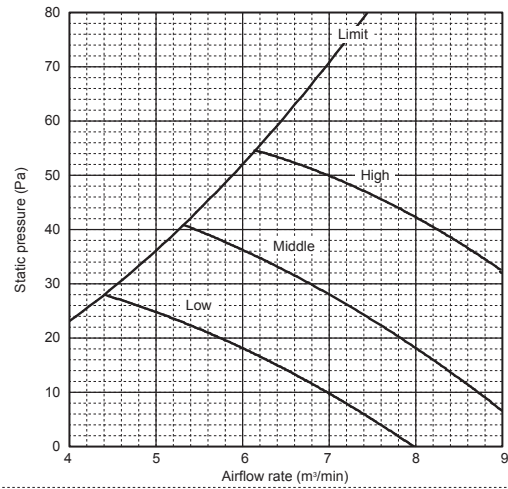
Suction : Back inlet



### PEFY-P15VMS1(L)-E

External static pressure : 50Pa  
Power source : 220,230,240V, 50/60Hz

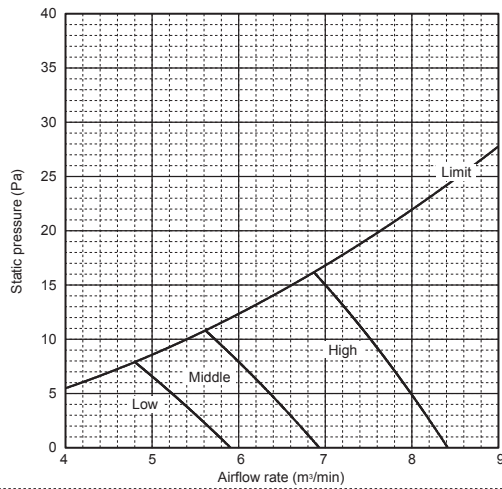
Suction : Back inlet



### PEFY-P20VMS1(L)-E

External static pressure : 5Pa  
Power source : 220,230,240V, 50/60Hz

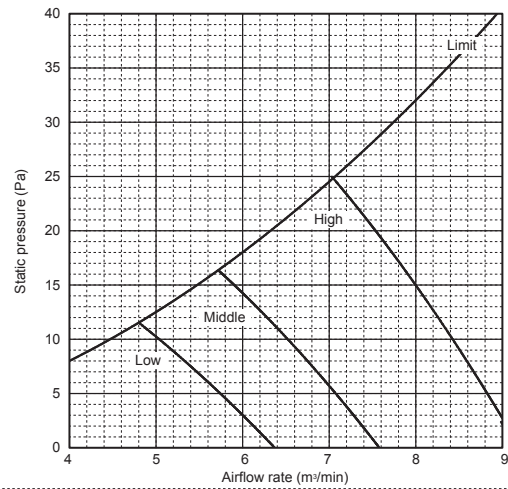
Suction : Back inlet



### PEFY-P20VMS1(L)-E

External static pressure : 15Pa  
Power source : 220,230,240V, 50/60Hz

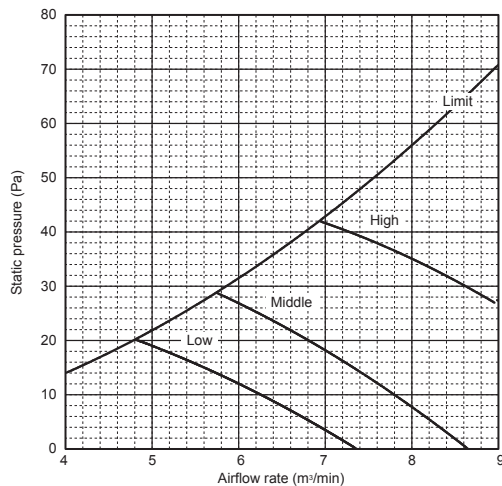
Suction : Back inlet



### PEFY-P20VMS1(L)-E

External static pressure : 35Pa  
Power source : 220,230,240V, 50/60Hz

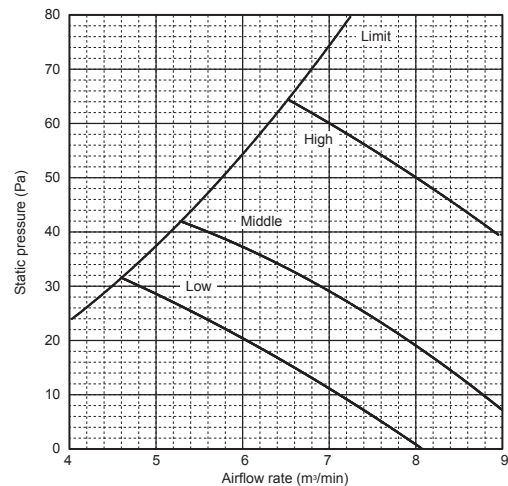
Suction : Back inlet



### PEFY-P20VMS1(L)-E

External static pressure : 50Pa  
Power source : 220,230,240V, 50/60Hz

Suction : Back inlet

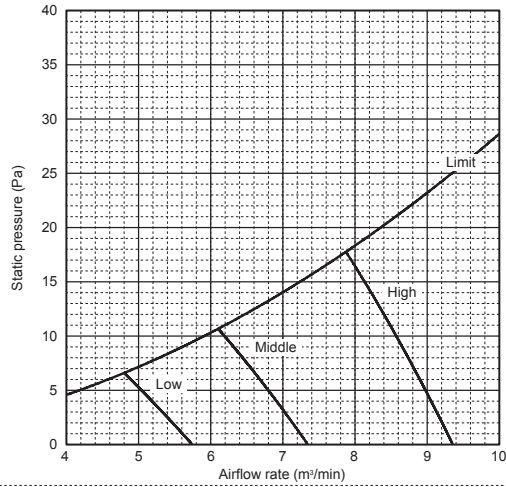


6. FAN CHARACTERISTICS CURVES

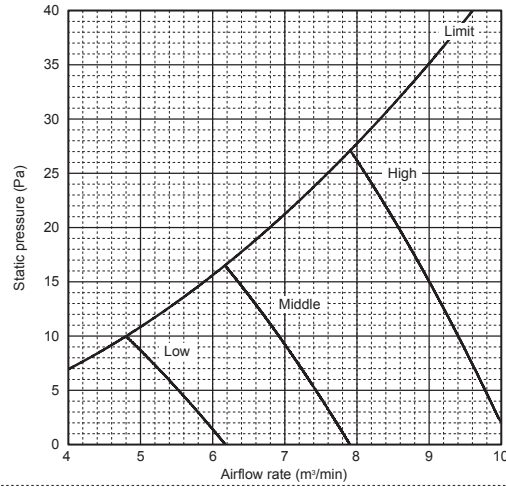
Ceiling concealed (Low noise/Low static pressure type)

PEFY-P-VMR-E-L/R, VMS1(L)-E

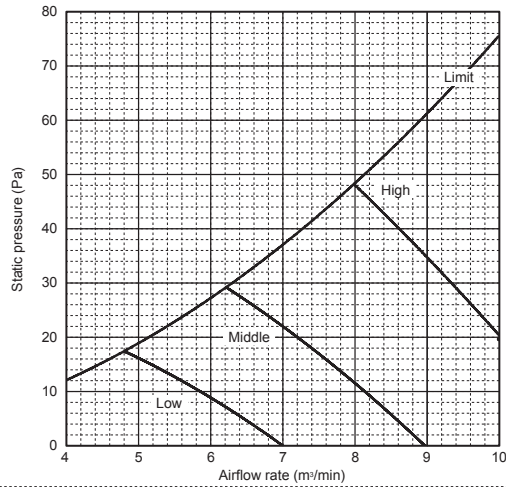
**PEFY-P25VMS1(L)-E**  
 External static pressure : 5Pa  
 Power source : 220,230,240V, 50/60Hz  
 Suction : Back inlet



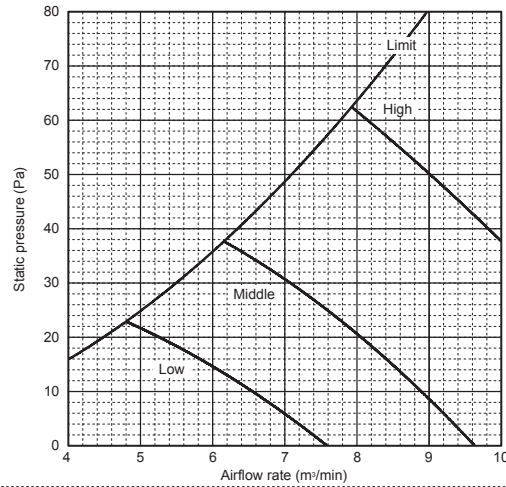
**PEFY-P25VMS1(L)-E**  
 External static pressure : 15Pa  
 Power source : 220,230,240V, 50/60Hz  
 Suction : Back inlet



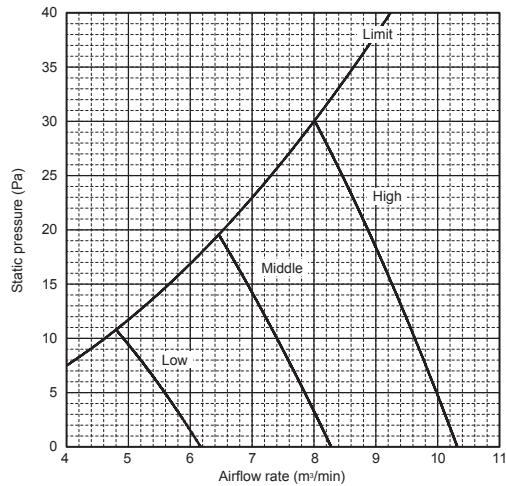
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 External static pressure : 35Pa  
 Power source : 220,230,240V, 50/60Hz  
 Suction : Back inlet



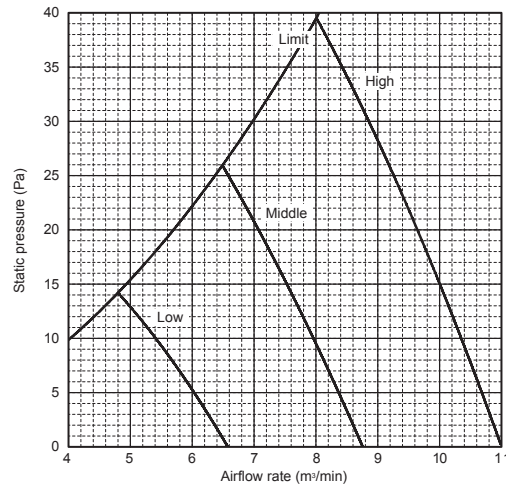
**PEFY-P25VMS1(L)-E**  
 External static pressure : 50Pa  
 Power source : 220,230,240V, 50/60Hz  
 Suction : Back inlet



**PEFY-P32VMS1(L)-E**  
 External static pressure : 5Pa  
 Power source : 220,230,240V, 50/60Hz  
 Suction : Back inlet



**PEFY-P32VMS1(L)-E**  
 External static pressure : 15Pa  
 Power source : 220,230,240V, 50/60Hz  
 Suction : Back inlet



## 6. FAN CHARACTERISTICS CURVES

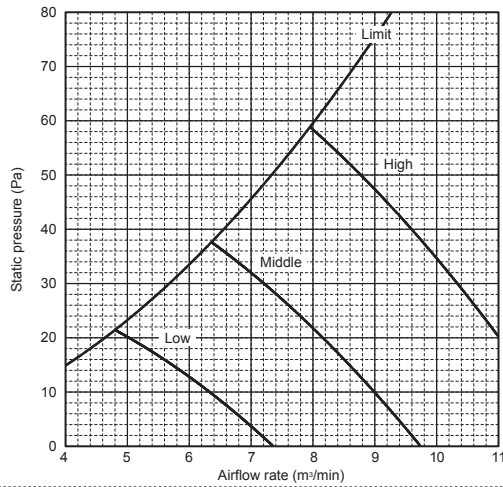
Ceiling concealed (Low noise/Low static pressure type)

PEFY-P-VMR-E-L/R, VMS1(L)-E

### PEFY-P32VMS1(L)-E

External static pressure : 35Pa  
Power source : 220,230,240V, 50/60Hz

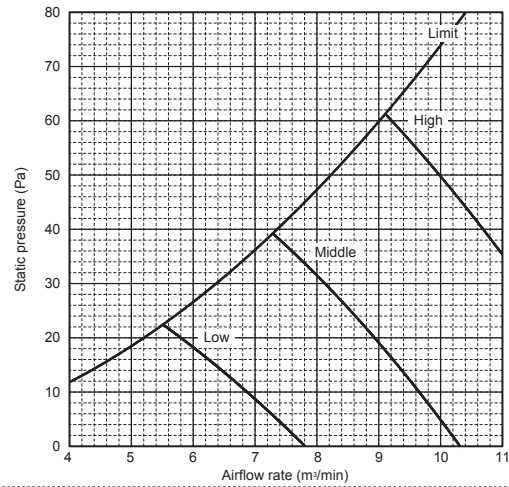
Suction : Back inlet



### PEFY-P32VMS1(L)-E

External static pressure : 50Pa  
Power source : 220,230,240V, 50/60Hz

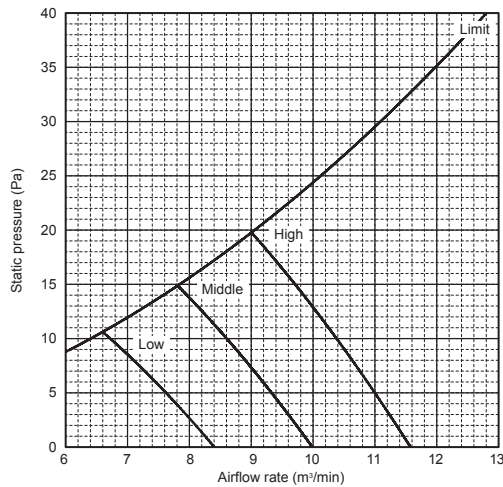
Suction : Back inlet



### PEFY-P40VMS1(L)-E

External static pressure : 5Pa  
Power source : 220,230,240V, 50/60Hz

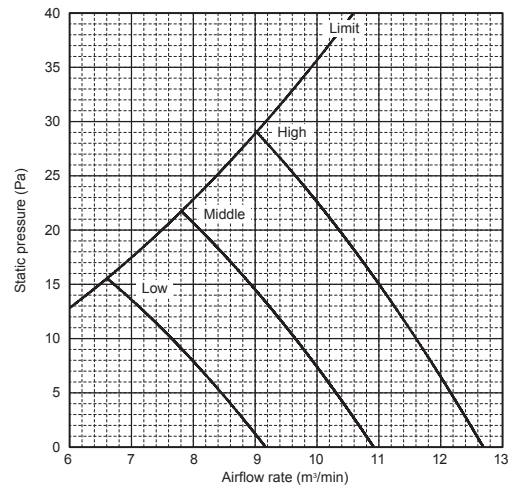
Suction : Back inlet



### PEFY-P40VMS1(L)-E

External static pressure : 15Pa  
Power source : 220,230,240V, 50/60Hz

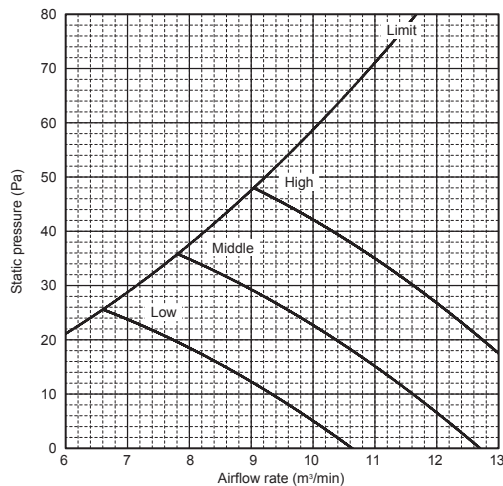
Suction : Back inlet



### PEFY-P40VMS1(L)-E

External static pressure : 35Pa  
Power source : 220,230,240V, 50/60Hz

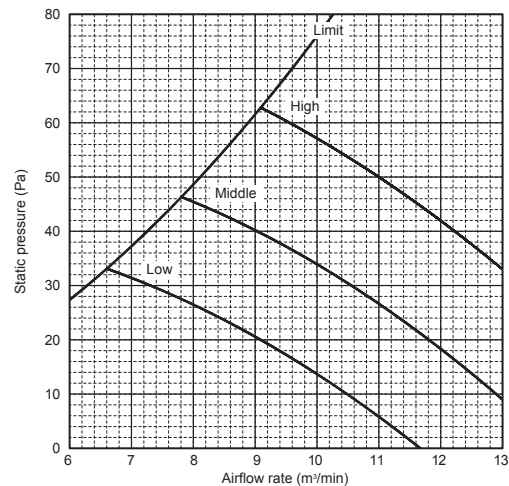
Suction : Back inlet



### PEFY-P40VMS1(L)-E

External static pressure : 50Pa  
Power source : 220,230,240V, 50/60Hz

Suction : Back inlet

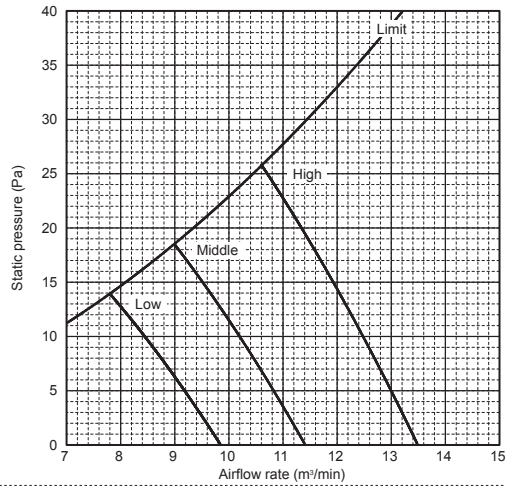


# 6. FAN CHARACTERISTICS CURVES

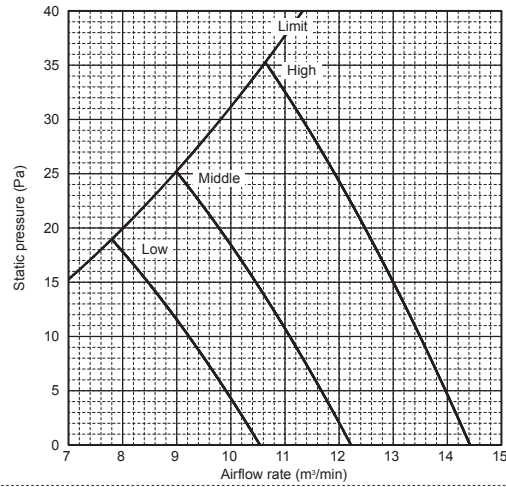
Ceiling concealed (Low noise/Low static pressure type)

PEFY-P-VMR-E-L/R, VMS1(L)-E

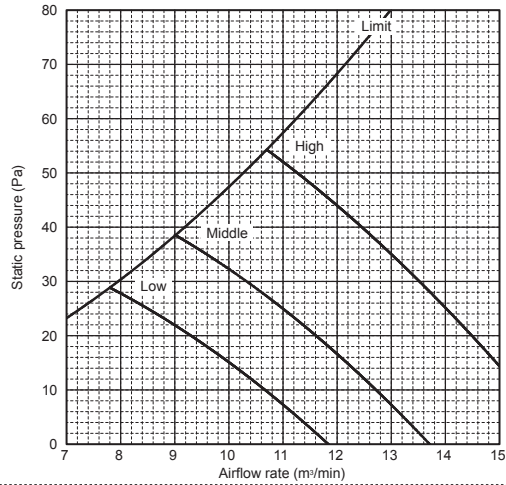
**PEFY-P50VMS1(L)-E**  
 External static pressure : 5Pa  
 Power source : 220,230,240V, 50/60Hz  
 Suction : Back inlet



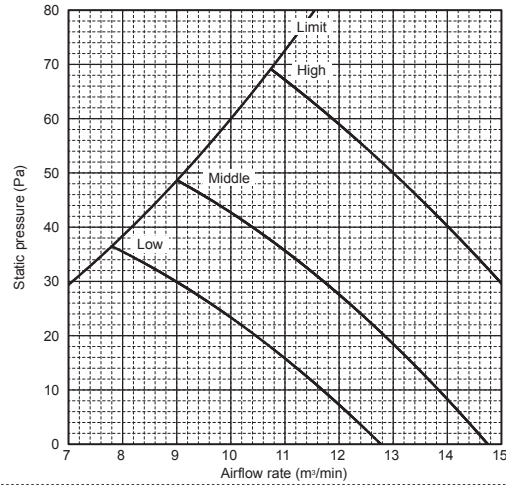
**PEFY-P50VMS1(L)-E**  
 External static pressure : 15Pa  
 Power source : 220,230,240V, 50/60Hz  
 Suction : Back inlet



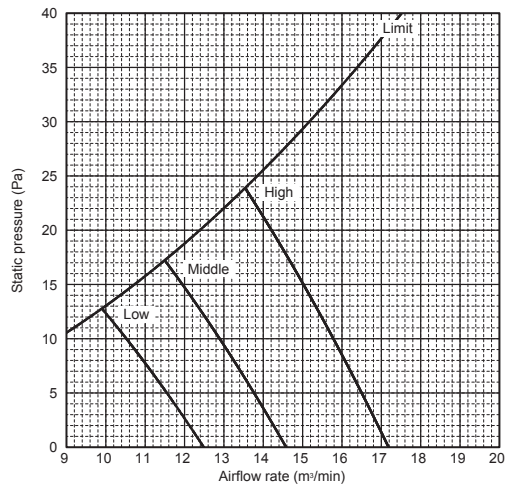
**PEFY-P50VMS1(L)-E**  
 External static pressure : 35Pa  
 Power source : 220,230,240V, 50/60Hz  
 Suction : Back inlet



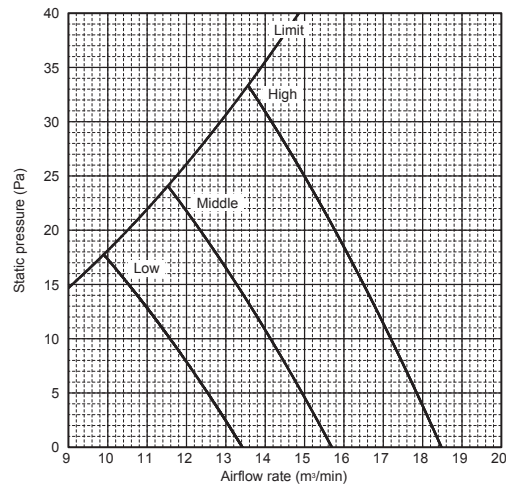
**PEFY-P50VMS1(L)-E**  
 External static pressure : 50Pa  
 Power source : 220,230,240V, 50/60Hz  
 Suction : Back inlet



**PEFY-P63VMS1(L)-E**  
 External static pressure : 5Pa  
 Power source : 220,230,240V, 50/60Hz  
 Suction : Back inlet



**PEFY-P63VMS1(L)-E**  
 External static pressure : 15Pa  
 Power source : 220,230,240V, 50/60Hz  
 Suction : Back inlet



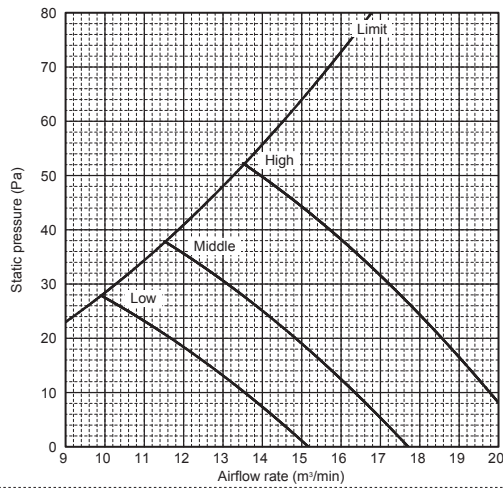
## 6. FAN CHARACTERISTICS CURVES

Ceiling concealed (Low noise/Low static pressure type)

### PEFY-P63VMS1(L)-E

External static pressure : 35Pa  
Power source : 220,230,240V, 50/60Hz

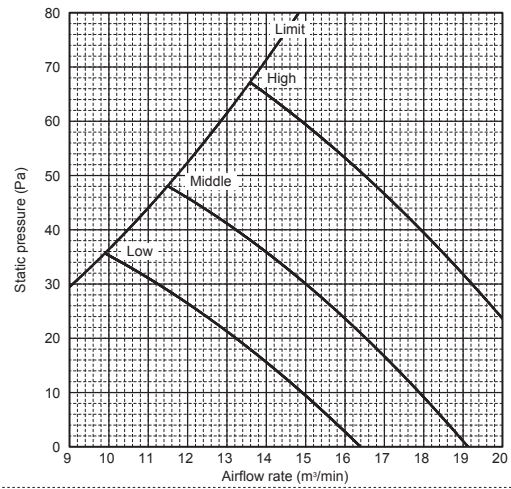
Suction: Back inlet



### PEFY-P63VMS1(L)-E

External static pressure : 50Pa  
Power source : 220,230,240V, 50/60Hz

Suction: Back inlet



PEFY-P-VMR-E-L/R, VMS1(L)-E

## 7. ELECTRICAL CHARACTERISTICS

Ceiling concealed (Low noise/Low static pressure type)

Symbols: MCA (Max.Circuit Amps =1.25xFLA), FLA (Full Load Amps)  
IFM (Indoor Fan Motor), Output (Fan motor rated output)

PEFY-P-VMR-E-L/R, VMS1(L)-E

PEFY-P-VMR-E-L/R	Power supply			IFM	
	Volts/Hz	Range +-10%	MCA(A) (50/60Hz)	Output (kW)	FLA(A) (50/60Hz)
PEFY-P20VMR-E-L/R	220-240V/50Hz 220-230V/60Hz	Max.: 264V Min.: 198V	0.37/0.37	0.018	0.29/0.29
PEFY-P25VMR-E-L/R			0.37/0.37	0.018	0.29/0.29
PEFY-P32VMR-E-L/R			0.43/0.48	0.023	0.34/0.38

PEFY-P-VMS1-E	Power supply			IFM	
	Volts/Hz	Range +-10%	MCA(A) (50/60Hz)	Output (kW)	FLA(A) (50/60Hz)
PEFY-P15VMS1-E	220-240V/50Hz 220-240V/60Hz	Max.: 264V Min.: 198V	0.63/0.63	0.096	0.50/0.50
PEFY-P20VMS1-E			0.70/0.70	0.096	0.56/0.56
PEFY-P25VMS1-E			0.75/0.75	0.096	0.60/0.60
PEFY-P32VMS1-E			0.75/0.75	0.096	0.60/0.60
PEFY-P40VMS1-E			0.83/0.82	0.096	0.66/0.65
PEFY-P50VMS1-E			1.02/1.00	0.096	0.81/0.80
PEFY-P63VMS1-E			1.08/1.07	0.096	0.86/0.85

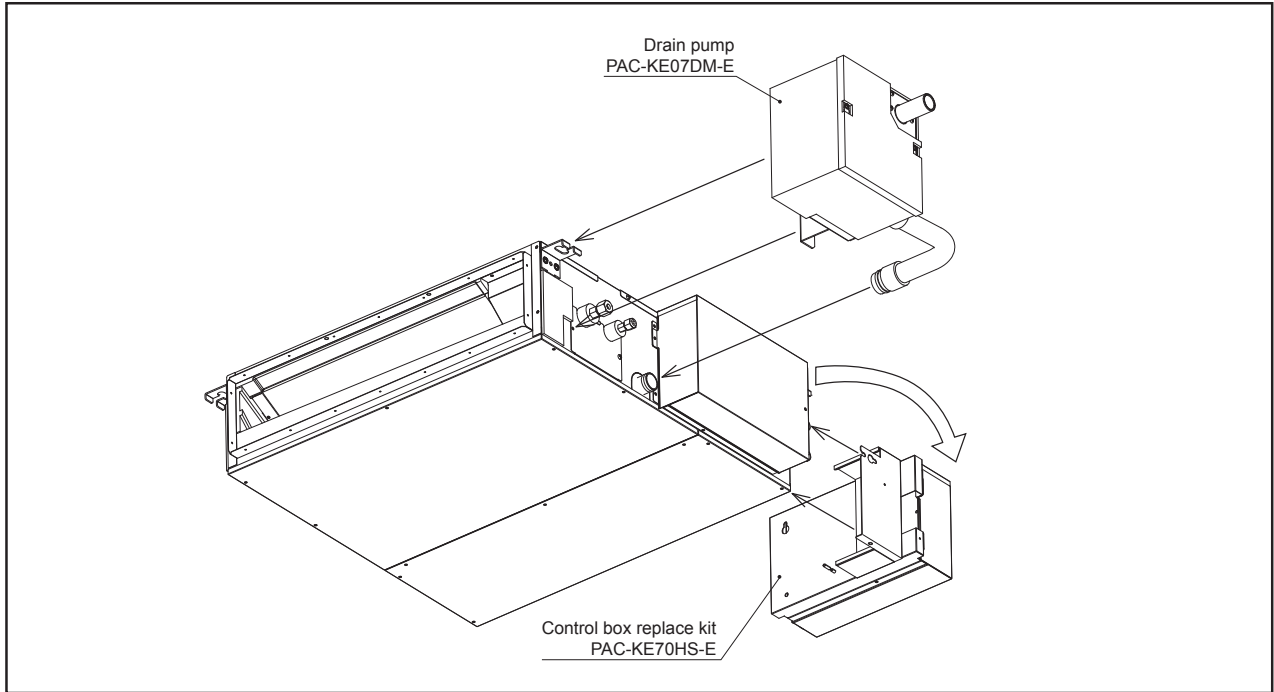
PEFY-P-VMS1L-E	Power supply			IFM	
	Volts/Hz	Range +-10%	MCA(A) (50/60Hz)	Output (kW)	FLA(A) (50/60Hz)
PEFY-P15VMS1L-E	220-240V/50Hz 220-240V/60Hz	Max.: 264V Min.: 198V	0.46/0.46	0.096	0.37/0.37
PEFY-P20VMS1L-E			0.54/0.54	0.096	0.43/0.43
PEFY-P25VMS1L-E			0.59/0.59	0.096	0.47/0.47
PEFY-P32VMS1L-E			0.59/0.59	0.096	0.47/0.47
PEFY-P40VMS1L-E			0.68/0.68	0.096	0.54/0.54
PEFY-P50VMS1L-E			0.84/0.84	0.096	0.67/0.67
PEFY-P63VMS1L-E			0.91/0.91	0.096	0.73/0.73



8-1. Optional parts line up for the Indoor unit

	Drain pump	Control box replace kit
PEFY-P15,20,25,32,40,50,63VMS1-E	-	PAC-KE70HS-E
PEFY-P15,20,25,32,40,50,63VMS1L-E	PAC-KE07DM-E	PAC-KE70HS-E

PEFY-P-VMS1(L)-E



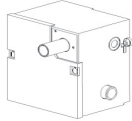



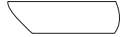
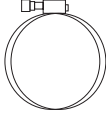


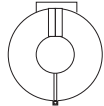

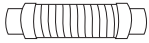

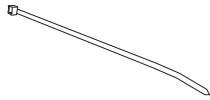
PEFY-P-VMR-E-L/R, VMS1(L)-E

8-2. Drain pump

PEFY-P-VMR-E-L/R, VMS1(L)-E

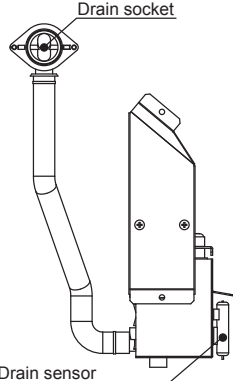



Drain pump is an optional part for VMS1L, and a standard for VMS1. When using drain pump, PAC-KE07DM-E (mounting type) is required.

**PAC-KE07DM-E**

Item	① Drain pump	② Attachment	③ Drain hose 1	④ Pipe cover 1	⑤ Pipe cover 2
Quantity	1	1	1	1	1
Shape			(385mm) 	(255mm) 	(200mm) 
Item	⑥ Hose band	⑦ Screw	⑧ Clamp	⑨ Ferrite clamp	⑩ Band 1
Quantity	1	3	3	1	2
Shape					(100mm) 
Item	⑪ Drain hose 2	⑫ Pipe cover 3	⑬ Band 2		
Quantity	1	1	6		
Shape	(175mm) 		(380mm) 		

If drain water can not flow out the Indoor unit by gravity and gradient, a Drain-pump for draining is needed. Drain pump PAC-DRP10DP-E can pump water up to 550mm [21-11/16 in.] high from the drain pan.

**PAC-DRP10DP-E**

Item	① Drain pump ass'y	② Rubber plug	③ Band	④ PTT screw 4X10
Quantity	1	1	2	2+1 (spare)
Shape				

Detailed installation information should be referred to its Installation Manual.

## 8. OPTIONAL PARTS

Ceiling concealed (Low noise/Low static pressure type)

If drain water can not flow out the Indoor unit by gravity and gradient, a Drain-pump for draining is needed.  
Drain pump PAC-KE04DM-F can pump water up to 550mm [21-11/16 in.] high from the drain pan.

**PAC-KE04DM-F**

Item	① Drain pump ass'y	② Separator	③ Rubber plug	④ Connector	⑤ Dummy connector
Quantity	1	1	2	1	1
Shape					
Item	⑥ Rubber bushing	⑦ Band	⑧ PTT screw 4X10	⑨ Fixing plate	⑩ Installation manual
Quantity	1	2	6+1 (spare)	1	1
Shape					

Detailed installation information should be referred to its Installation Manual.

If drain water can not flow out the Indoor unit by gravity and gradient, a Drain-pump for draining is needed.  
Drain pump PAC-KE05DM-F can pump water up to 700mm [27-9/16 in.] high from the drain pan.

**PAC-KE05DM-F**

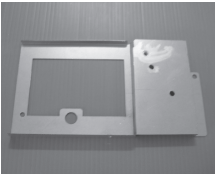
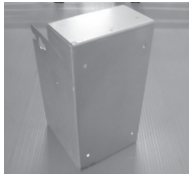
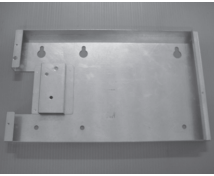
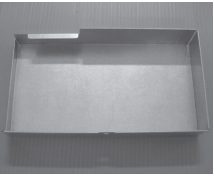
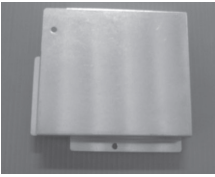







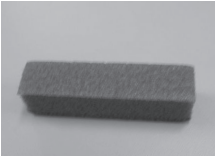


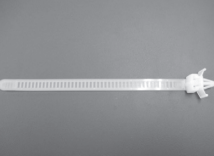




Item	① Drain pump ass'y	② Rubber plug	③ Rubber bushing	④ Band	⑤ PTT screw 4X10
Quantity	1	2	1	2	6+1 (spare)
Shape					
Item	⑥ Installation manual				
Quantity	1				
Shape					

Detailed installation information should be referred to its Installation Manual.

8-3. Control box replace kit

PAC-KE70HS-E

PEFY-P-VMR-E-L/R, VMS1(L)-E

Parts	① PLATE A	② PLATE B	③ PLATE C	④ COVER A
Q'ty	1	1	1	1
Shape				
Parts	⑤ COVER B	⑥ LEAD WIRE MOTOR	⑦ LEAD WIRE LEV	⑧ LEAD WIRE THM A
Q'ty	1	1	1	1
Shape		 White 7-pin connector	 White 6-pin connector	 White 4-pin connector
Parts	⑨ LEAD WIRE THM B	⑩ LEAD WIRE EARTH	⑪ LEAD WIRE PUMP	⑫ LEAD WIRE FS
Q'ty	1	1	1	1
Shape	 Red 2-pin connector	 Ring terminal on both ends	 Blue 3-pin connector	 White 4-pin connector
Parts	⑬ INSULATOR	⑭ Connecting terminals	⑮ BAND	⑯ CLAMP
Q'ty	3	4	6	4
Shape				
Parts	⑰ SCREW 1	⑱ SCREW 2	⑲ SCREW 3	⑳ FERRITE CORE
Q'ty	2	4	5	1
Shape	 4X10	 4X10 with a washer	 5X10 with a washer	

When installing the control box replace kit on the air inlet on the unit, ⑫ LEAD WIRE FS is not used.