

AIR CONDITIONING SYSTEMS

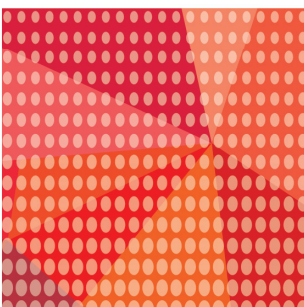
HYBRID
CITY MULTI



DATA BOOK

MODEL

PEFY-W-VMS-A



PEFY-W-VMS-A

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1. SPECIFICATIONS

Ceiling concealed (Low static pressure type)

PEFY-W-VMS-A

Model		PEFY-W10VMS-A	PEFY-W15VMS-A	PEFY-W20VMS-A	PEFY-W25VMS-A		
Power source		1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz		
Cooling capacity (Nominal)	*1 kW	1.2	1.7	2.2	2.8		
	*1 BTU/h	4,100	5,800	7,500	9,600		
(220V)	*2 Power input kW	0.020	0.025	0.030	0.035		
	*2 Current input A	0.16	0.24	0.26	0.30		
Heating capacity (Nominal)	*3 kW	1.4	1.9	2.5	3.2		
	*3 BTU/h	4,800	6,500	8,500	10,900		
(220V)	*2 Power input kW	0.020	0.025	0.030	0.035		
	*2 Current input A	0.16	0.24	0.26	0.30		
External finish		Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate		
External dimension H × W × D		mm	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)	19 (42)	19 (42)		
Heat exchanger		Cross fin (Aluminum fin and copper tube)					
		Water Volume L	0.7	0.7	0.9	0.9	
FAN		Sirocco fan x 2					
*4	External static press.		Pa	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>		
			mmH ₂ O	<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					
Driving mechanism		Direct-driven by motor					
Air flow rate		(Low-Mid-High)					
		m ³ /min	4.0 - 4.5 - 5.0	5.0 - 5.5 - 7.0	5.5 - 6.5 - 7.5	5.5 - 6.5 - 8.5	
		L/s	67 - 75 - 83	83 - 92 - 117	92 - 108 - 125	92 - 108 - 142	
		cfm	141 - 159 - 177	177 - 194 - 247	194 - 230 - 265	194 - 230 - 300	
Sound pressure level (measured in anechoic room)		(Low-Mid-High)					
*2 dB <A>		20.0-22.0-23.0	22.0-24.0-25.0	23.0-24.0-26.0	23.0-24.0-28.0		
Insulation material		Polystyrene foam, Polyethylene foam, Urethane foam					
Air filter		PP honeycomb fabric.					
Protection device		Fuse					
Refrigerant control device		Flow control valve					
Connectable HBC/Hydro unit		CMB-WM-V-AA, CMB-WM-F-AA, CMB-WM-V-BB/CMH-WM-V-A					
Water piping diameter *5, 6							
Connection size	Inlet	mm O.D.	22	22	22	22	
		mm I.D.	22	22	22	22	
	Field pipe size	Inlet	mm I.D.	20	20	20	20
		Outlet	mm I.D.	20	20	20	20
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)	
Drawing	External	KL94R872, KL94R873					
	Wiring	KL94R874					
	Refrigerant cycle	-					
Standard attachment	Document	Installation Manual, Instruction Book					
	Accessory	Washer, Drain hose, Tie band					
Optional parts	Drain pump kit	PAC-KE08DM-E					
	Plasma Quad Connect	MAC-100FT-E					
	PQ attachment	PAC-HA11PAR					
Remarks		* 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.					

Notes:	Unit converter
1. Nominal cooling conditions 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.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)	BTU/h = kW x 3,412
2. The values are measured at the factory setting of external static pressure.	cfm = m ³ /min x 35.31
3. Nominal heating conditions 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: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)	lbs = kg/0.4536
4. The factory setting of external static pressure is shown without < >. Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.	
5. Be sure to install a valve on the water inlet/outlet.	
6. Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.	* Above specification data is subject to rounding variation.
7. Please group units that operate on 1 branch of HBC.	

1. SPECIFICATIONS

Ceiling concealed (Low static pressure type)

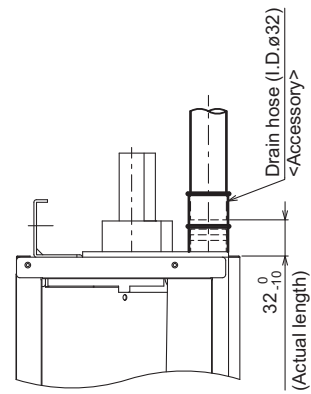
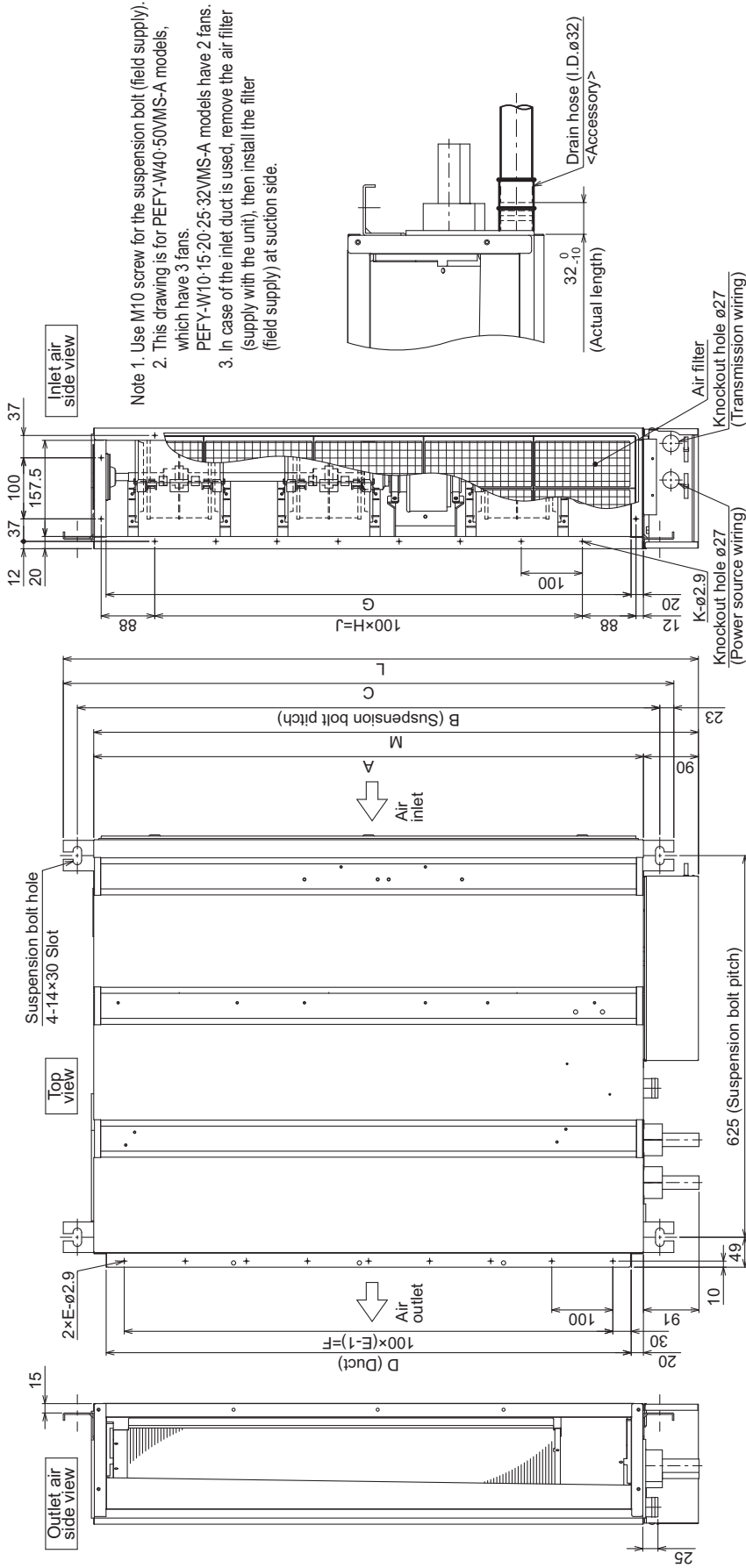
PEFY-W-VMS-A

Model			PEFY-W32VMS-A	PEFY-W40VMS-A	PEFY-W50VMS-A	
Power source			1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz	
Cooling capacity (Nominal) (220V)	*1	kW	3.6	4.5	5.6	
		BTU/h	12,300	15,400	19,100	
	*2	Power input	0.040	0.045	0.070	
		Current input	A	0.37	0.39	0.55
Heating capacity (Nominal) (220V)	*3	kW	4.0	5.0	6.3	
		BTU/h	13,600	17,100	21,500	
	*2	Power input	0.040	0.045	0.070	
		Current input	A	0.37	0.39	0.55
External finish			Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	
External dimension H × W × D			mm	200 x 790 x 700	200 x 990 x 700	
			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 39 x 27-9/16
Net weight			kg (lbs)	19.5 (45)	23.5 (53)	
Heat exchanger			Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	
Water Volume			L	1.0	1.0	
FAN	Type × Quantity		Sirocco fan x 2	Sirocco fan x 3	Sirocco fan x 3	
	*4	External static press.	Pa	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>
			mmH ₂ 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	DC motor	DC motor	
	Motor output		kW	0.096	0.096	0.096
	Driving mechanism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	
	Air flow rate		(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	
			m ³ /min	5.5 - 6.5 - 9.0	8.0 - 9.5 - 11.0	9.5 - 12.0 - 14.5
			L/s	92 - 108 - 150	133 - 158 - 183	158 - 200 - 242
			cfm	194 - 230 - 318	282 - 335 - 388	335 - 424 - 512
Sound pressure level (measured in anechoic room)			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	
*2			dB <A>	24.0-25.0-31.0	24.0-25.0-28.0	25.0-29.0-33.0
Insulation material			Polystyrene foam, Polyethylene foam, Urethane foam	Polystyrene foam, Polyethylene foam, Urethane foam	Polystyrene foam, Polyethylene foam, Urethane foam	
Air filter			PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	
Protection device			Fuse	Fuse	Fuse	
Refrigerant control device			Flow control valve	Flow control valve	Flow control valve	
Connectable HBC/Hydro unit			CMB-WM-V-AA, CMB-WM-F-AA, CMB-WM-V-BB/CMH-WM-V-A	CMB-WM-V-AA, CMB-WM-F-AA, CMB-WM-V-BB/CMH-WM-V-A	CMB-WM-V-AA, CMB-WM-F-AA, CMB-WM-V-BB/CMH-WM-V-A	
Water piping diameter			*5, 6			
Connection size	Inlet	mm O.D.	22	22	22	
		mm O.D.	22	22	22	
	Field pipe size	Inlet	mm I.D.	20	20	20
		Outlet	mm I.D.	20	20	20
Field drain pipe size			mm (in.)	O.D.32 (1-1/4)	O.D.32 (1-1/4)	
Drawing	External		KL94R872, KL94R873	KL94R872, KL94R873	KL94R872, KL94R873	
	Wiring		KL94R874	KL94R874	KL94R874	
	Refrigerant cycle		-	-	-	
Standard attachment	Document		Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book	
	Accessory		Washer, Drain hose, Tie band	Washer, Drain hose, Tie band	Washer, Drain hose, Tie band	
Optional parts	Drain pump kit		PAC-KE08DM-E	PAC-KE08DM-E	PAC-KE08DM-E	
	Plasma Quad Connect		MAC-100FT-E	MAC-100FT-E	MAC-100FT-E	
	PQ attachment		PAC-HA11PAR	PAC-HA11PAR	PAC-HA11PAR	
Remarks			* 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.			

Notes:	Unit converter
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2. The values are measured at the factory setting of external static pressure.	cfm =m ³ /min x 35.31
3. Nominal heating conditions 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: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)	lbs =kg/0.4536
4. The factory setting of external static pressure is shown without < > . Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.	
5. Be sure to install a valve on the water inlet/outlet.	
6. Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.	*Above specification data is subject to rounding variation.
7. Please group units that operate on 1 branch of HBC.	

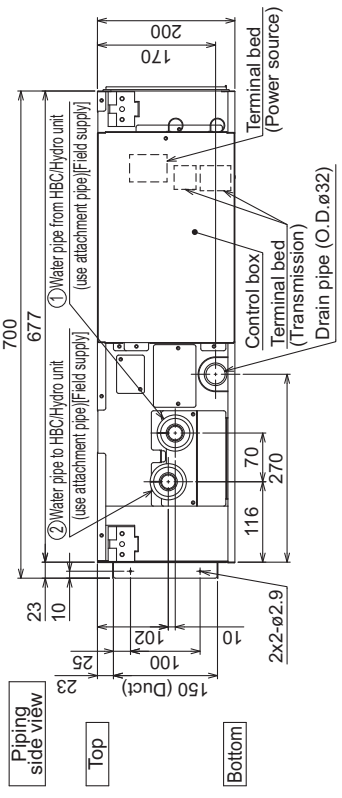
PEFY-W10, 15, 20, 25, 32, 40, 50VMS-A

Unit: mm



Model	A	B	C	D	E	F	G	H	J	K	L	M	① Water pipe from HBC/Hydro unit	② Water pipe to HBC/Hydro unit
PEFY-W10VMS-A														
PEFY-W15VMS-A														
PEFY-W20VMS-A	700	752	798	660	7	600	660	5	500	16	839	790		
PEFY-W25VMS-A														
PEFY-W32VMS-A														
PEFY-W40VMS-A	900	952	998	860	9	800	860	7	700	20	1039	990		
PEFY-W50VMS-A														

O.D. ϕ 22



PEFY-W10, 15, 20, 25, 32, 40, 50VMS-A

Unit: mm

[Maintenance access space]
 Secure enough access space to allow for the maintenance, inspection, and replacement of the motor, fan, heat exchanger, and control 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 (450×450mm 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 control box and access door 3 below the unit as shown in Fig.4.
 - or
 - Create access door 4 below the control box and the unit as shown in Fig.5.

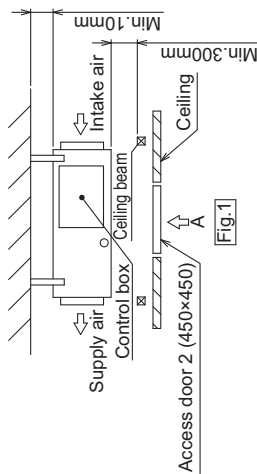


Fig.1

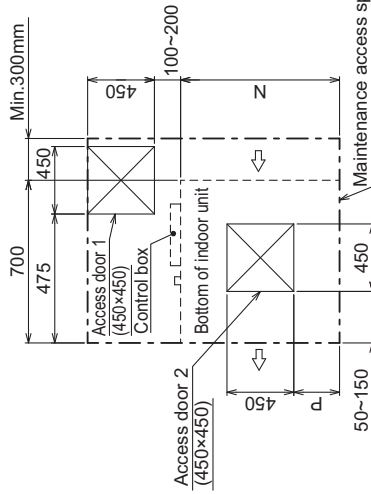


Fig.2 (Viewed from the direction of the arrow A)

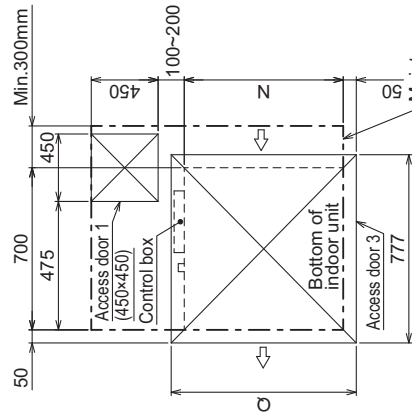


Fig.4 (Viewed from the direction of the arrow B)

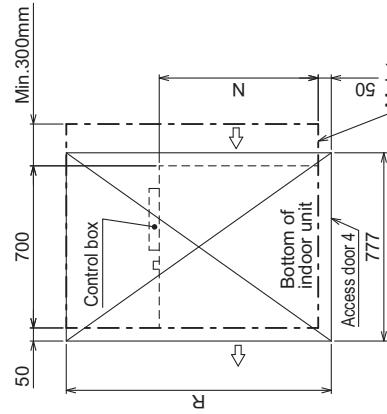


Fig.5 (Viewed from the direction of the arrow B)

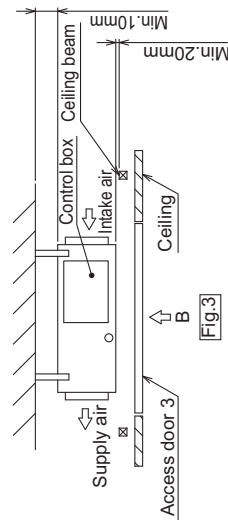
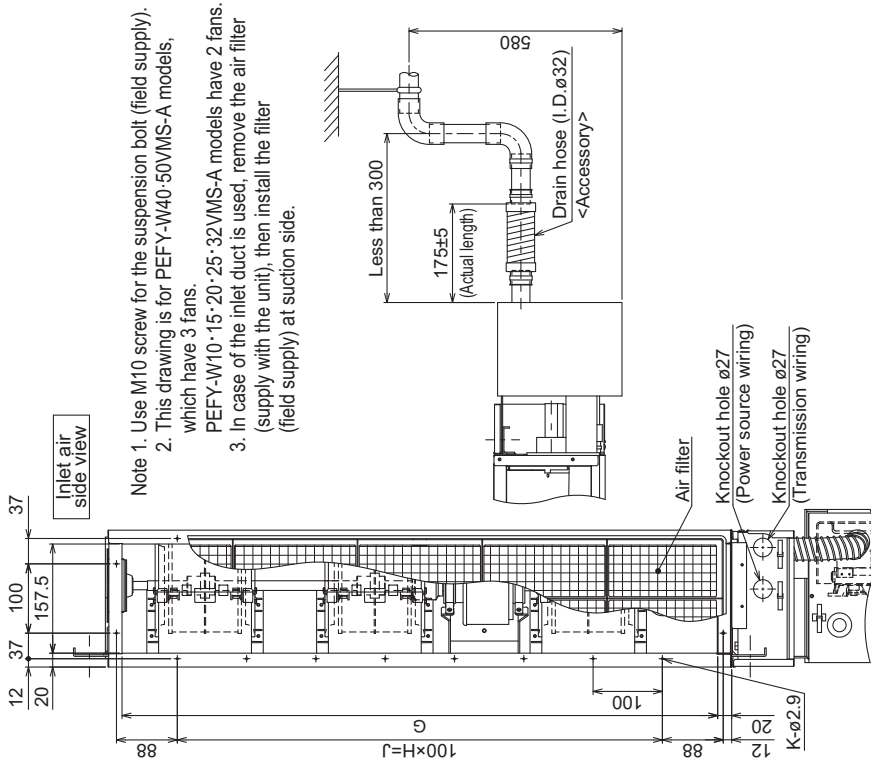


Fig.3

Model	N	P	Q	R
PEFY-W10VMS-A				
PEFY-W15VMS-A				
PEFY-W20VMS-A	700	50~150	800	1300
PEFY-W25VMS-A				
PEFY-W32VMS-A				
PEFY-W40VMS-A	900	150~250	1000	1500
PEFY-W50VMS-A				

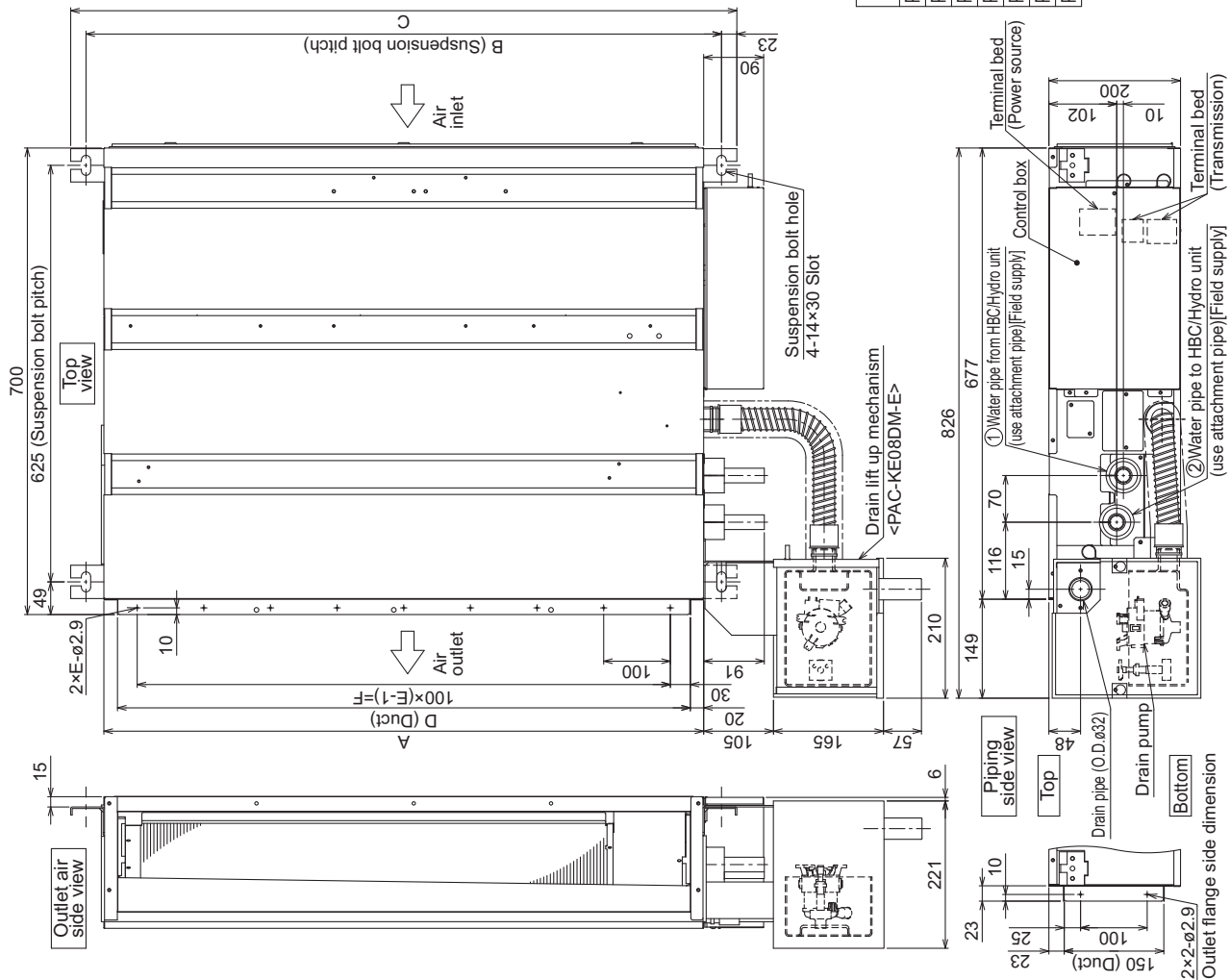
PEFY-W10, 15, 20, 25, 32, 40, 50VMS-A Drain lift up mechanism built-in specification

Unit: mm



Note 1. Use M10 screw for the suspension bolt (field supply).
 2. This drawing is for PEFY-W40-50VMS-A models, which have 3 fans.
 PEFY-W10-15-20-25-32VMS-A models have 2 fans.
 3. 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.

Model	A	B	C	D	E	F	G	H	J	K	① Water pipe from HBC/Hydro unit	② Water pipe to HBC/Hydro unit
PEFY-W10VMS-A												
PEFY-W15VMS-A												
PEFY-W20VMS-A	700	752	798	660	7	600	660	5	500	16		O.D. φ22
PEFY-W25VMS-A												
PEFY-W32VMS-A												
PEFY-W40VMS-A	900	952	998	860	9	800	860	7	700	20		
PEFY-W50VMS-A												



PEFY-W10, 15, 20, 25, 32, 40, 50VMS-A Drain lift up mechanism built-in specification

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 control 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 control box and access door 3 below the unit as shown in Fig.4.
 - or
 - Create access door 4 below the control box and the unit as shown in Fig.5.

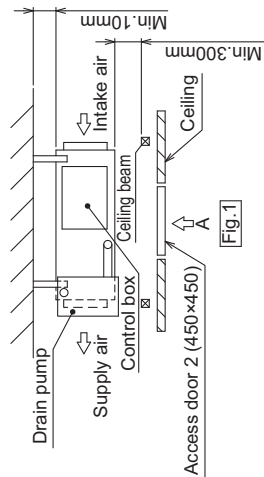


Fig.1

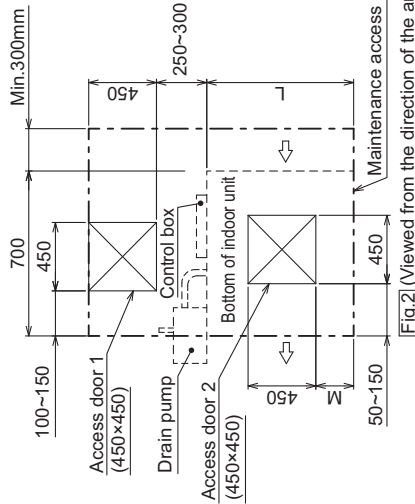


Fig.2 (Viewed from the direction of the arrow A)

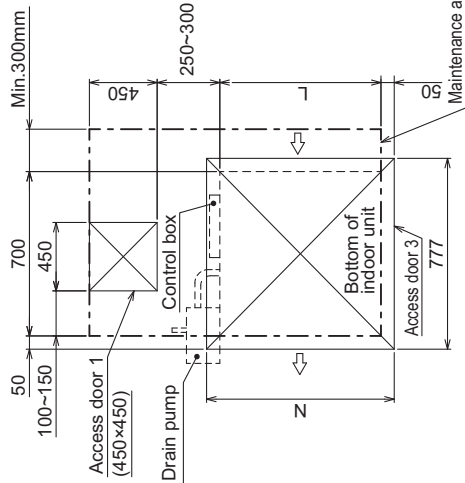


Fig.4 (Viewed from the direction of the arrow B)

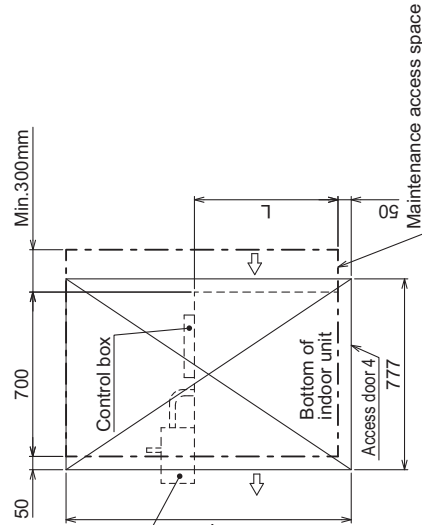


Fig.5 (Viewed from the direction of the arrow B)

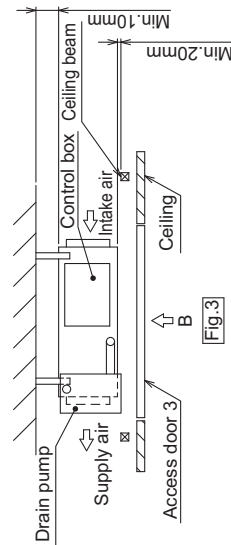
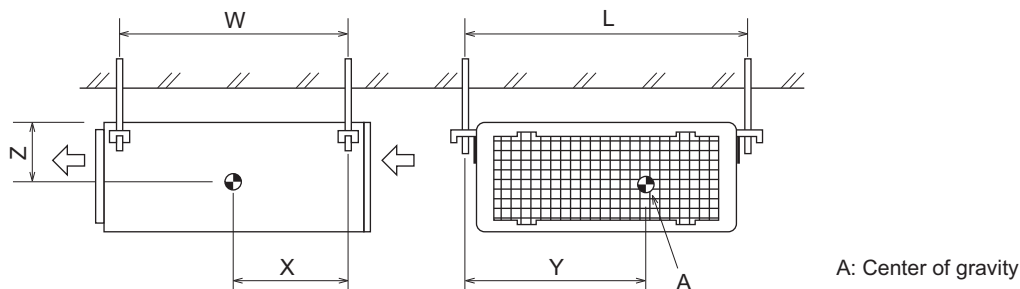


Fig.3

Model	L	M	N	P
PEFY-W10VMS-A				
PEFY-W15VMS-A				
PEFY-W20VMS-A	700	50~150	800	1300
PEFY-W25VMS-A				
PEFY-W32VMS-A				
PEFY-W40VMS-A				
PEFY-W50VMS-A	900	150~250	1000	1500

PEFY-W-VMS-A

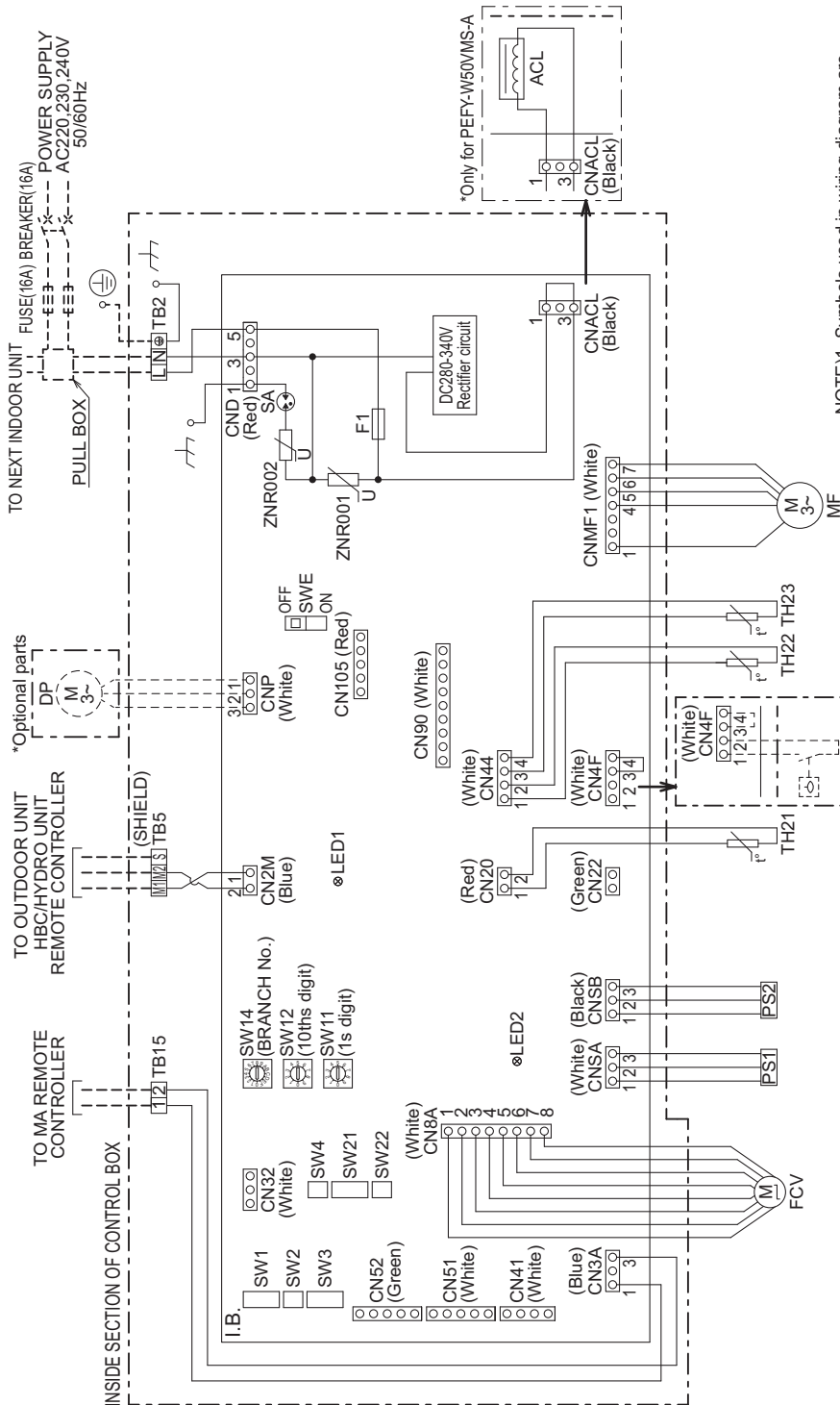
PEFY-W10, 15, 20, 25, 32, 40, 50VMS-A



(mm)[in.]

Model name	W	L	X	Y	Z
PEFY-W10VMS-A	625 [24-5/8]	752 [29-5/8]	263 [10-3/8]	338 [13-5/16]	105 [4-5/32]
PEFY-W15VMS-A	625 [24-5/8]	752 [29-5/8]	263 [10-3/8]	338 [13-5/16]	105 [4-5/32]
PEFY-W20VMS-A	625 [24-5/8]	752 [29-5/8]	263 [10-3/8]	338 [13-5/16]	105 [4-5/32]
PEFY-W25VMS-A	625 [24-5/8]	752 [29-5/8]	263 [10-3/8]	338 [13-5/16]	105 [4-5/32]
PEFY-W32VMS-A	625 [24-5/8]	752 [29-5/8]	275 [10-27/32]	340 [13-13/32]	104 [4-1/8]
PEFY-W40VMS-A	625 [24-5/8]	952 [37-1/2]	280 [11-1/32]	422 [16-5/8]	104 [4-1/8]
PEFY-W50VMS-A	625 [24-5/8]	952 [37-1/2]	280 [11-1/32]	422 [16-5/8]	104 [4-1/8]

PEFY-W10, 15, 20, 25, 32, 40, 50VMS-A



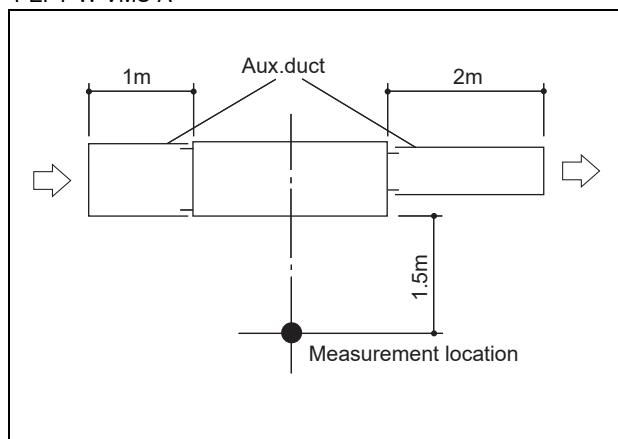
NOTE)1. Symbols used in wiring diagram are
 ○○○○: Connector, □: Terminal,
 --- (Thin dotted line): Field wiring,
 --- (Heavy dotted line): Optional parts.
 2. Have all electric work done by a licensed electrician according to the local regulations.
 3. Earth leakage circuit breaker should be set up on the wiring of the power supply.
 4. To perform a drainage test for the drain pump turn on the SWE on the control board while the indoor unit is being powered.
 *Be sure to turn off the SWE after completing a drainage test or test run.

SYMBOL EXPLANATION

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
ACL	AC reactor(Power factor improvement)	I.B.	Indoor controller board	I.B.	Indoor controller board
DP	Drain Pump	SA	Arrester	SW1	Switch (for mode selection)
FS	Float switch	F1	Fuse AC250V 6.3A	SW2	Switch (for capacity code)
MF	Fan Motor	ZNR001	Varistor	SW3	Switch (for mode selection)
FCV	Flow control valve	ZNR002	Varistor	SW4	Switch (for model selection)
PS1	Pressure sensor (valve inlet)	CN22	Connector (Optional Thermistor)	SW11	Switch (1s digit address set)
PS2	Pressure sensor (valve outlet)	CN32	Connector (Remote switch)	SW12	Switch (10ths digit address set)
TB5	Power source terminal block	CN41	Connector (HA terminal-A)	SW14	Switch (BRANCH No.)
TB15	Transmission terminal block	CN51	Connector (Centrally control)	SW21	Switch (for static pressure selection)
TB5	Transmission terminal block	CN52	Connector (Remote indication)	SW22	Switch (Wireless pair No.)
TH21	Thermistor (inlet air temp. detection)	CN90	Connector (Wireless)	SWE	Connector (emergency operation)
TH22	Thermistor (piping temp.detection/inlet water)	CN105	Connector (IT terminal)	LED1	LED (Power supply)
TH23	Thermistor (piping temp.detection/outlet water)			LED2	LED (Remote controller supply)

5-1. Sound levels

PEFY-W-VMS-A

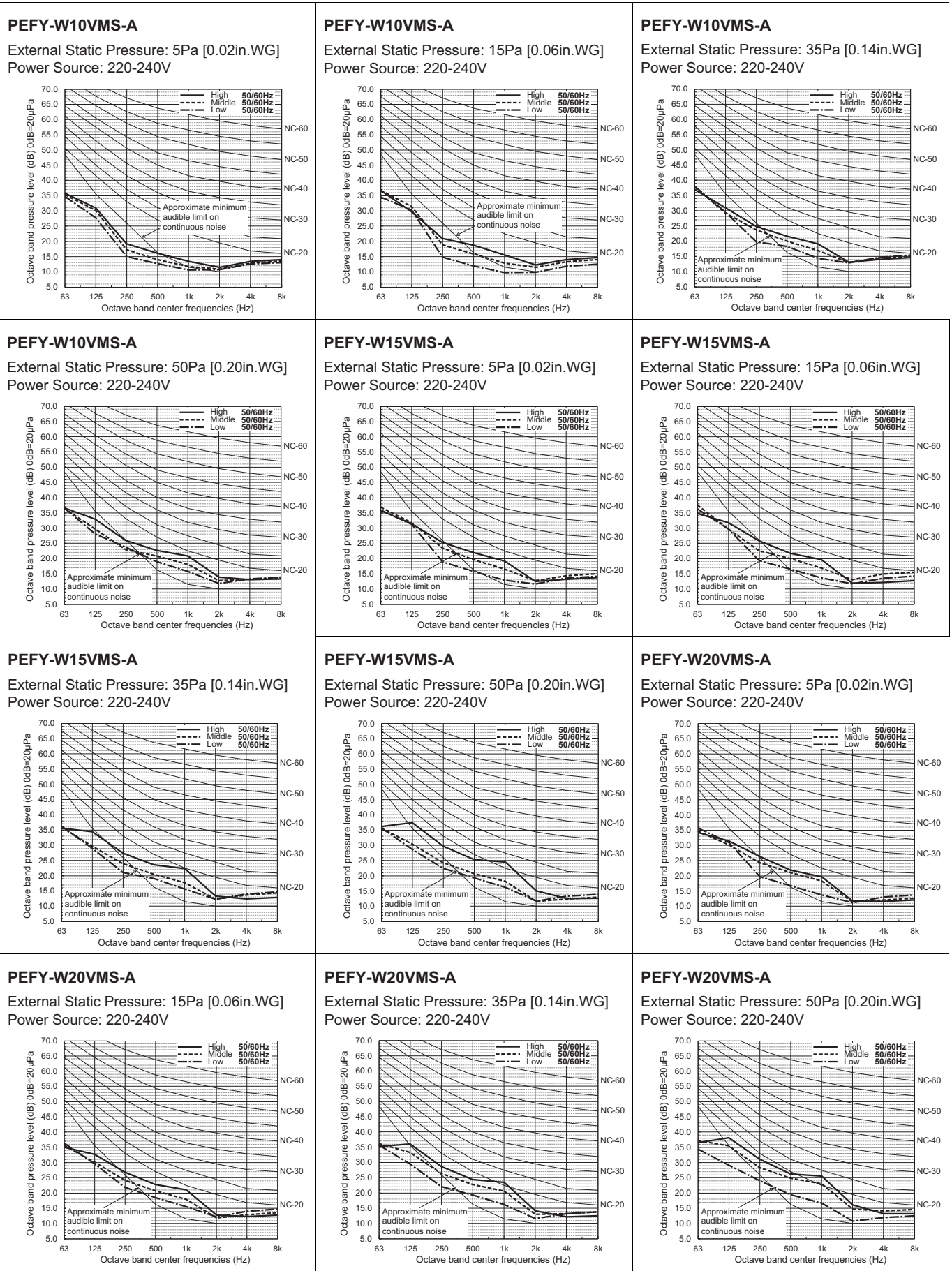


Sound level at anechoic room: Low-Mid-High

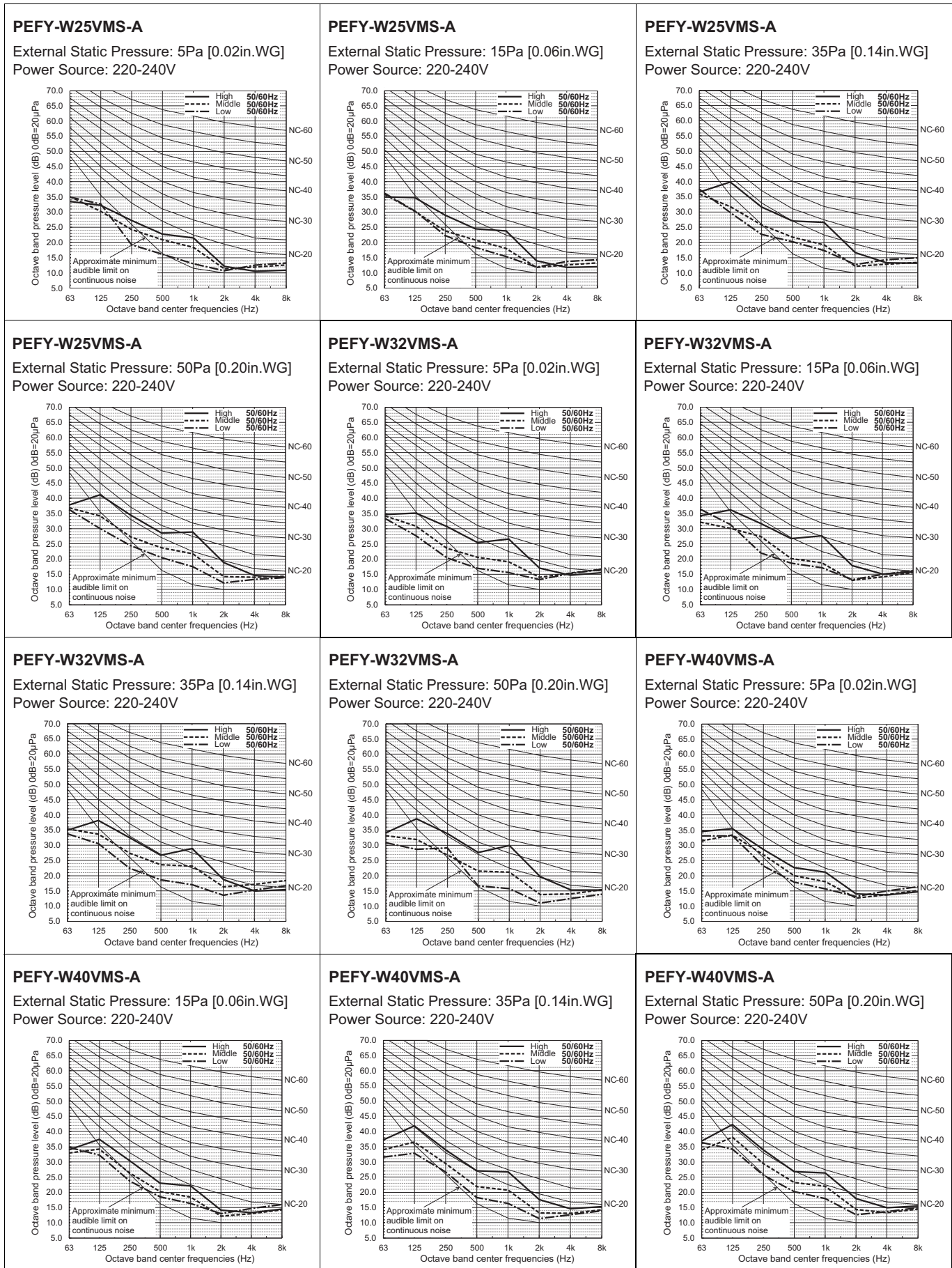
		Sound level dB (A)			
		5Pa	15Pa	35Pa	50Pa
PEFY-W10VMS-A	220-240V	20-21-22	20-22-23	23-24-25	23-24-26
PEFY-W15VMS-A	220-240V	22-24-25	22-24-25	23-24-27	23-24-29
PEFY-W20VMS-A	220-240V	22-24-25	23-24-26	23-26-28	23-28-30
PEFY-W25VMS-A	220-240V	22-24-26	23-24-28	24-25-31	24-27-33
PEFY-W32VMS-A	220-240V	23-25-30	24-25-31	24-28-32	24-26-33
PEFY-W40VMS-A	220-240V	24-25-27	24-25-28	24-27-32	25-28-32
PEFY-W50VMS-A	220-240V	24-28-32	25-29-33	26-31-35	27-32-37

* Measured in anechoic room.

5-2. NC curves

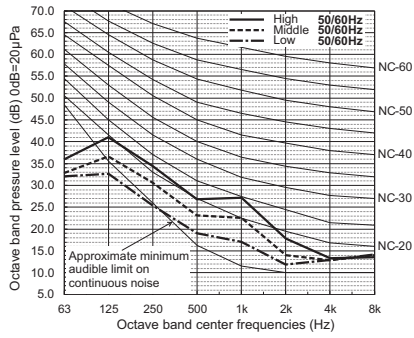


PEFY-W-VMS-A



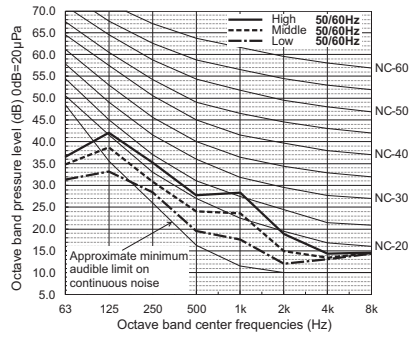
PEFY-W50VMS-A

External Static Pressure: 5Pa [0.02in.WG]
Power Source: 220-240V



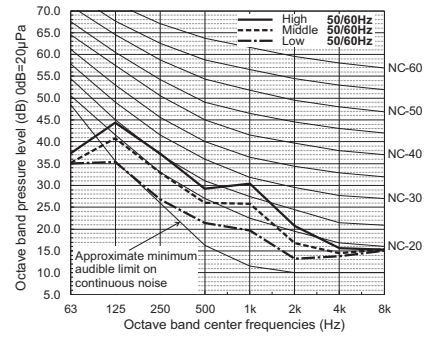
PEFY-W50VMS-A

External Static Pressure: 15Pa [0.06in.WG]
Power Source: 220-240V



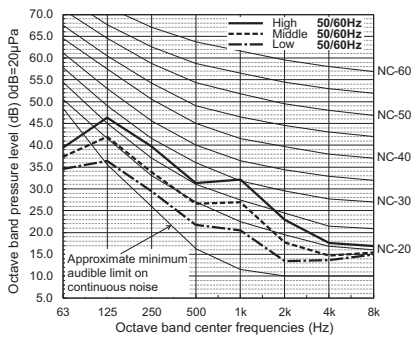
PEFY-W50VMS-A

External Static Pressure: 35Pa [0.14in.WG]
Power Source: 220-240V



PEFY-W50VMS-A

External Static Pressure: 50Pa [0.20in.WG]
Power Source: 220-240V



PEFY-W-VMS-A

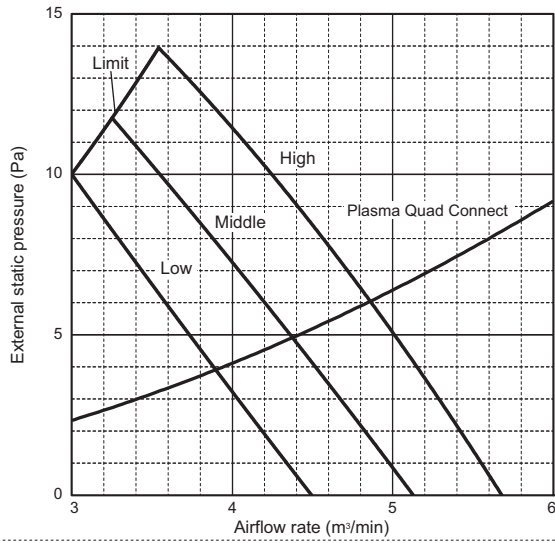
6. FAN CHARACTERISTICS CURVES

Ceiling concealed (Low static pressure type)

PEFY-W-VMS-A

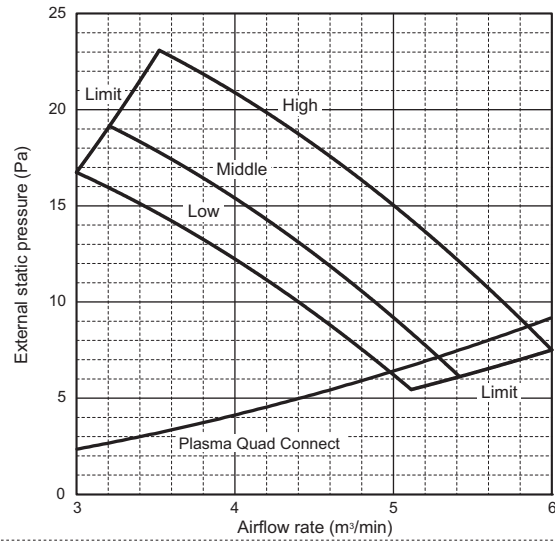
PEFY-W10VMS-A

External static pressure : 5Pa
Power source : 220-240V



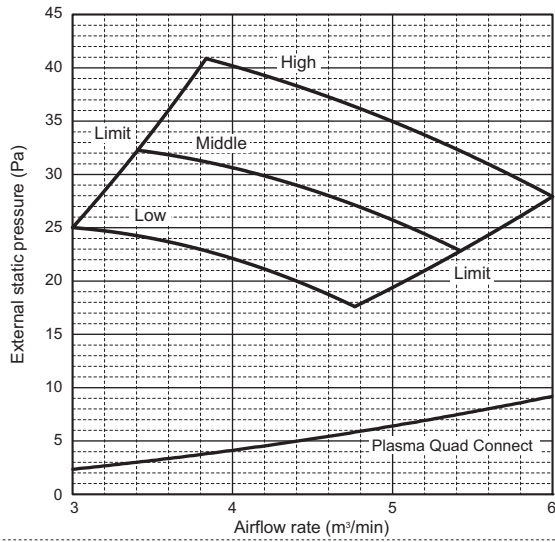
PEFY-W10VMS-A

External static pressure : 15Pa
Power source : 220-240V



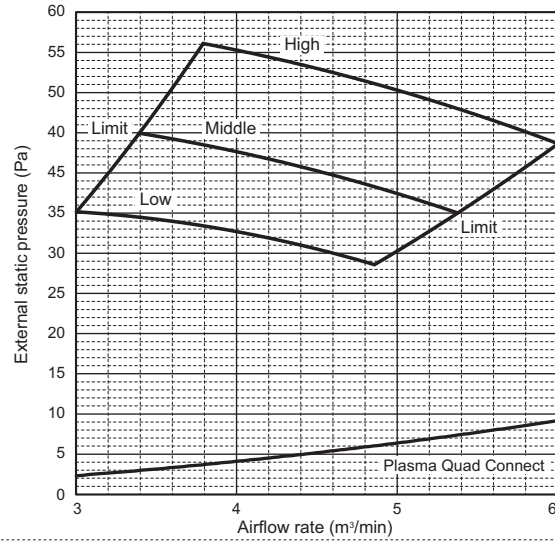
PEFY-W10VMS-A

External static pressure : 35Pa
Power source : 220-240V



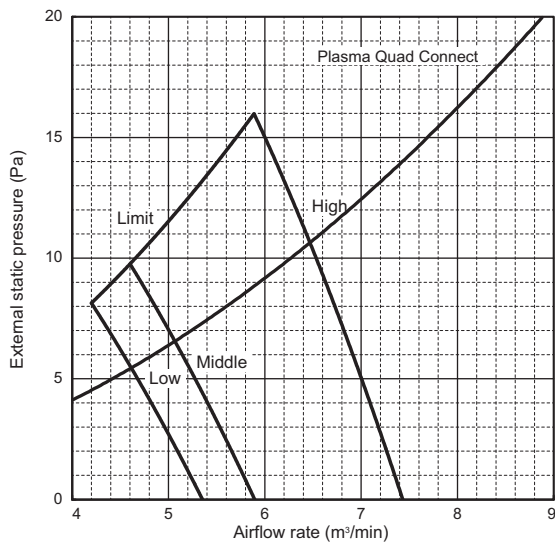
PEFY-W10VMS-A

External static pressure : 50Pa
Power source : 220-240V



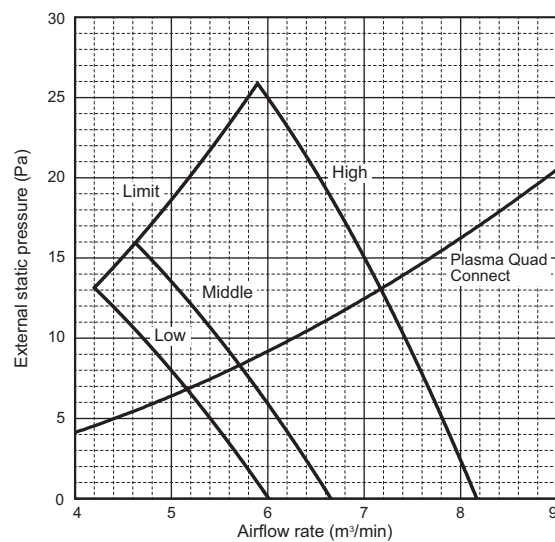
PEFY-W15VMS-A

External static pressure : 5Pa
Power source : 220-240V



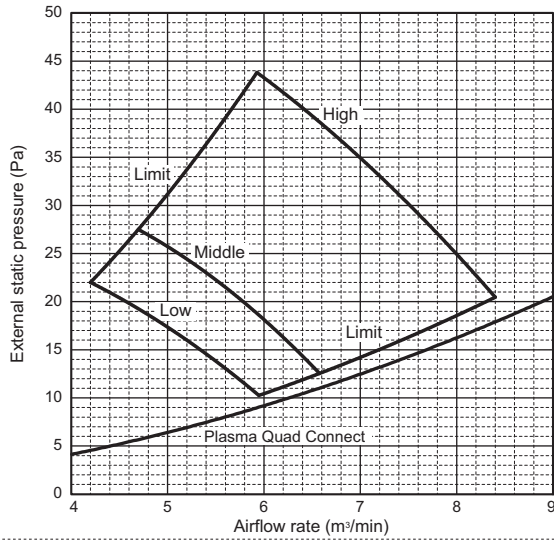
PEFY-W15VMS-A

External static pressure : 15Pa
Power source : 220-240V



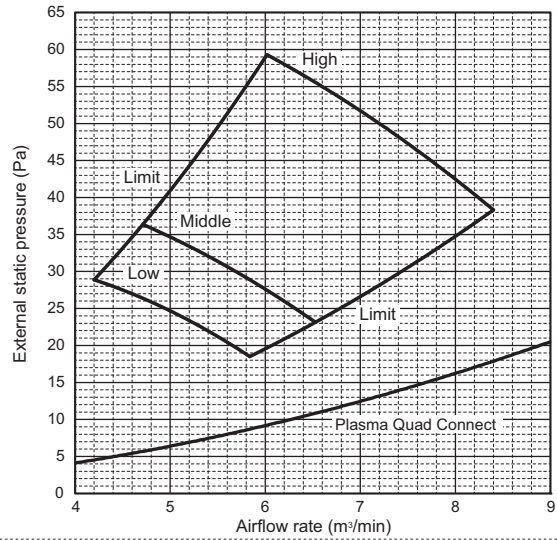
PEFY-W15VMS-A

External static pressure : 35Pa
Power source : 220-240V



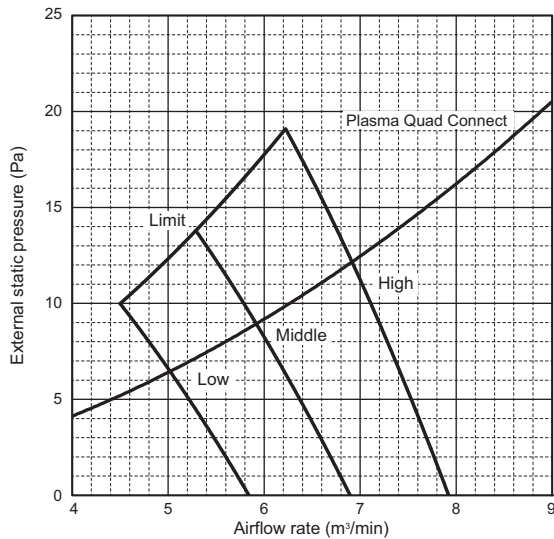
PEFY-W15VMS-A

External static pressure : 50Pa
Power source : 220-240V



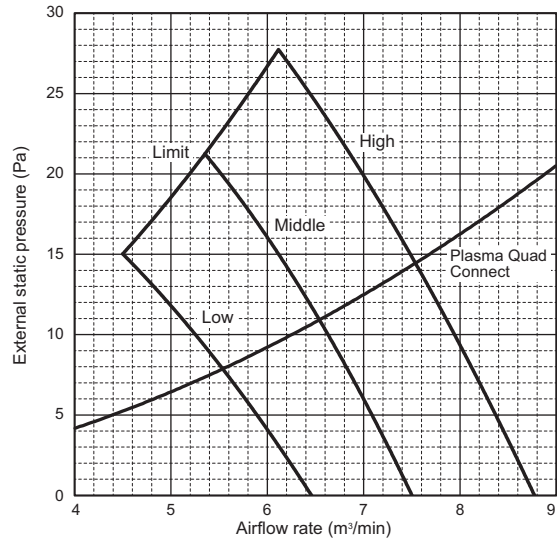
PEFY-W20VMS-A

External static pressure : 5Pa
Power source : 220-240V



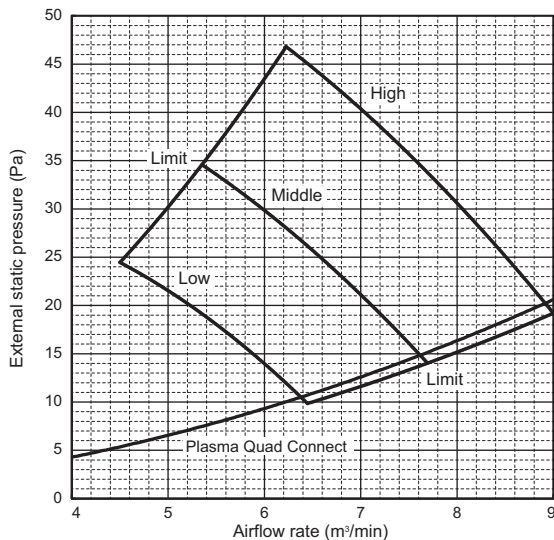
PEFY-W20VMS-A

External static pressure : 15Pa
Power source : 220-240V



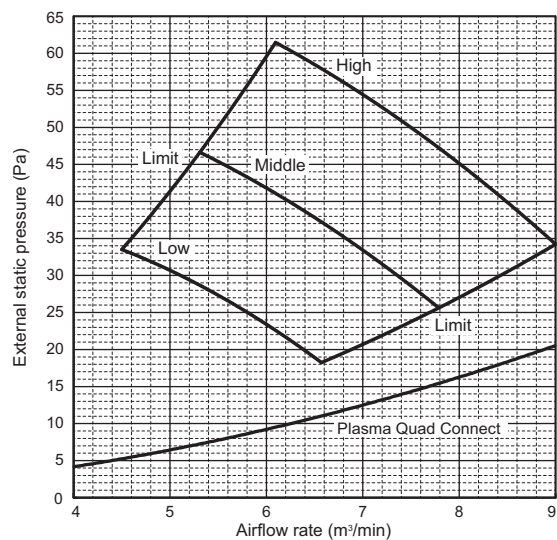
PEFY-W20VMS-A

External static pressure : 35Pa
Power source : 220-240V



PEFY-W20VMS-A

External static pressure : 50Pa
Power source : 220-240V



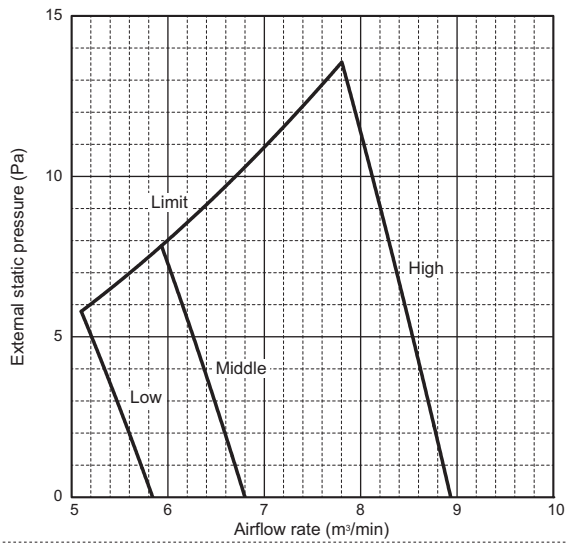
6. FAN CHARACTERISTICS CURVES

Ceiling concealed (Low static pressure type)

PEFY-W-VMS-A

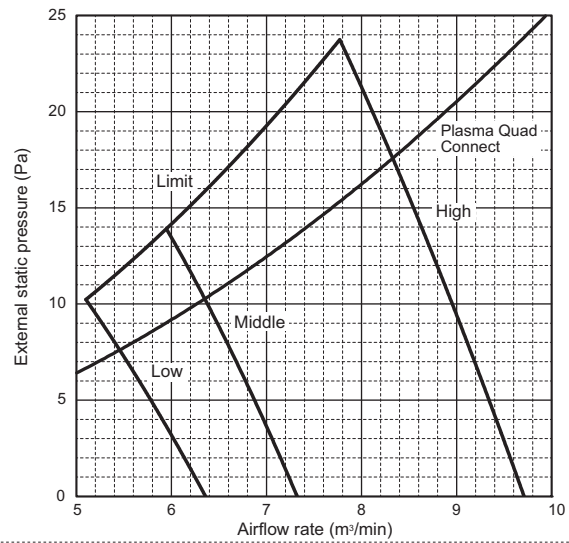
PEFY-W25VMS-A

External static pressure : 5Pa
Power source : 220-240V



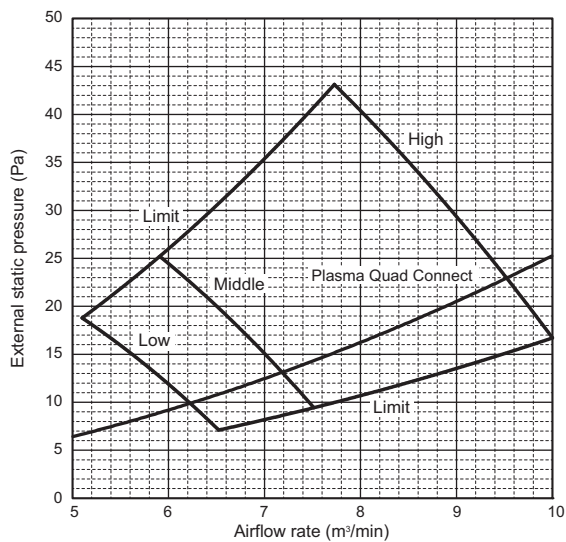
PEFY-W25VMS-A

External static pressure : 15Pa
Power source : 220-240V



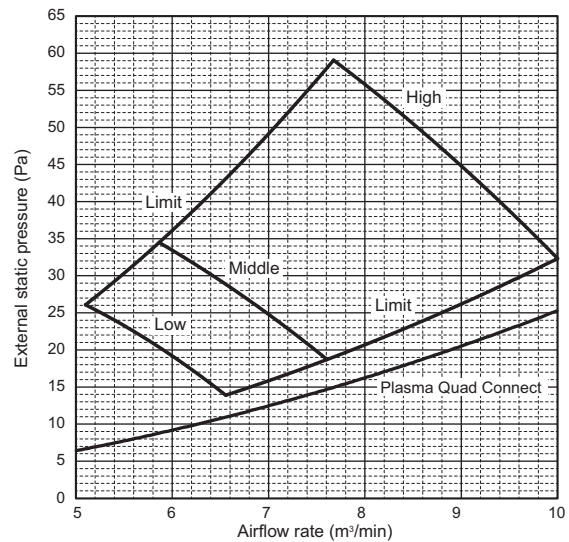
PEFY-W25VMS-A

External static pressure : 35Pa
Power source : 220-240V



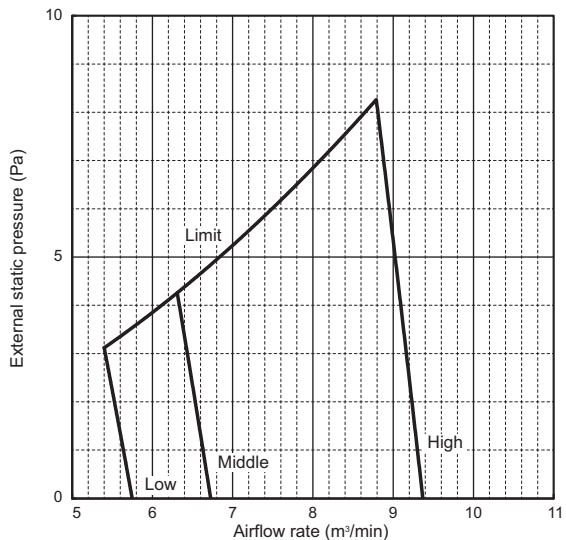
PEFY-W25VMS-A

External static pressure : 50Pa
Power source : 220-240V



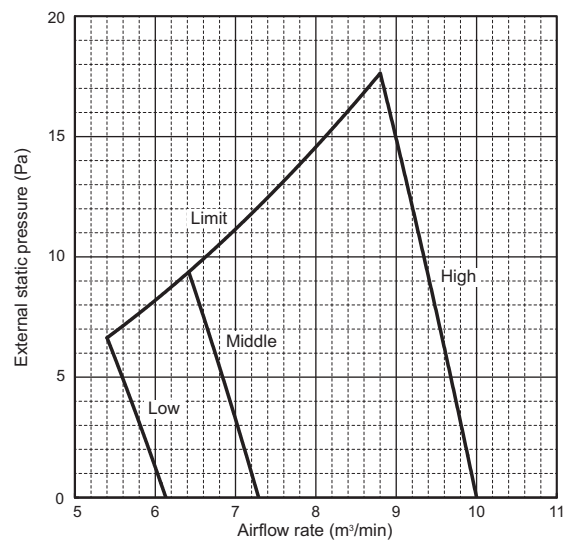
PEFY-W32VMS-A

External static pressure : 5Pa
Power source : 220-240V



PEFY-W32VMS-A

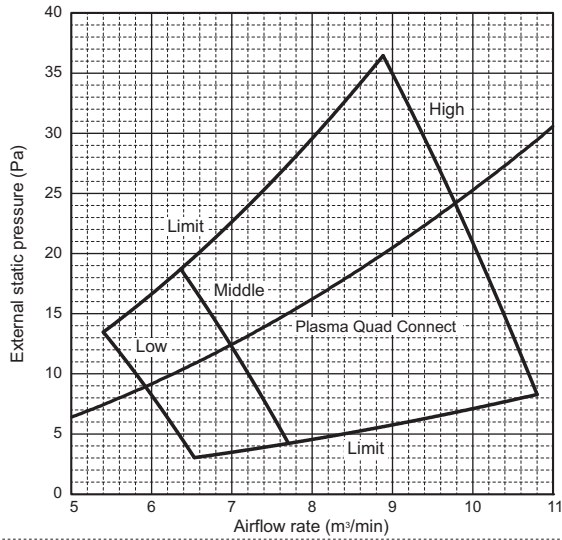
External static pressure : 15Pa
Power source : 220-240V



*When attaching a Plasma Quad Connect, set the external static pressure to 15 Pa or higher.

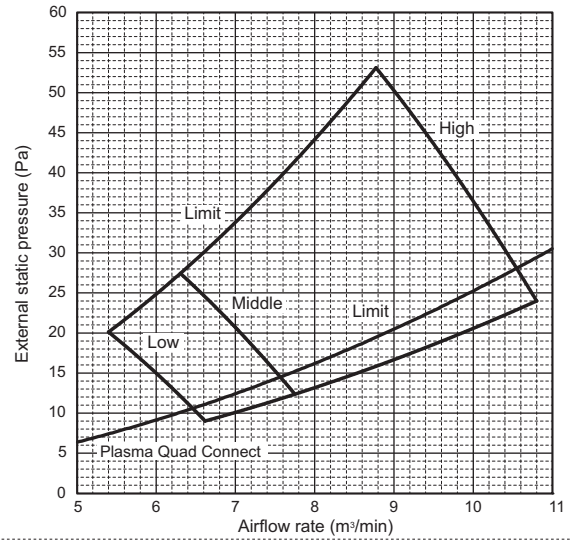
PEFY-W32VMS-A

External static pressure : 35Pa
Power source : 220-240V



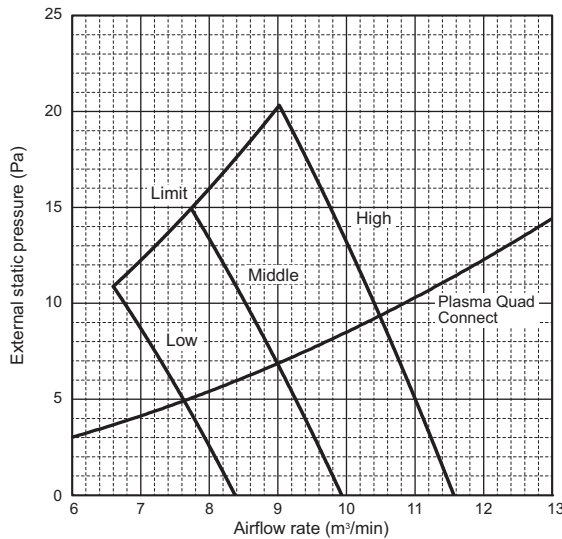
PEFY-W32VMS-A

External static pressure : 50Pa
Power source : 220-240V



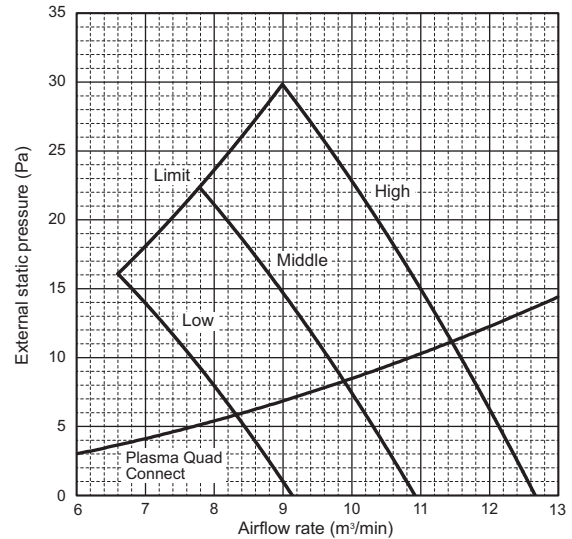
PEFY-W40VMS-A

External static pressure : 5Pa
Power source : 220-240V



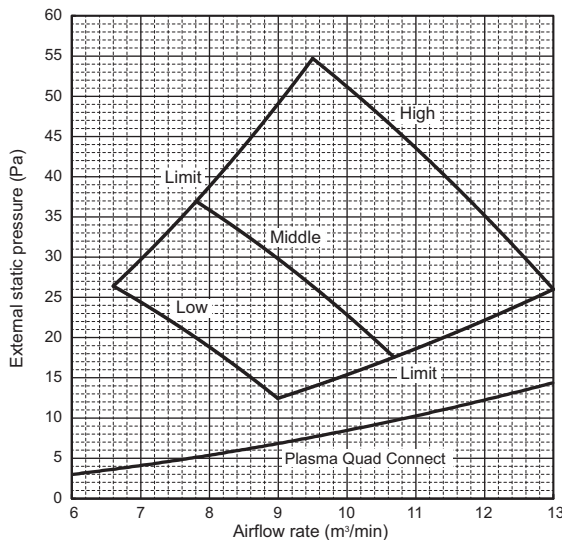
PEFY-W40VMS-A

External static pressure : 15Pa
Power source : 220-240V



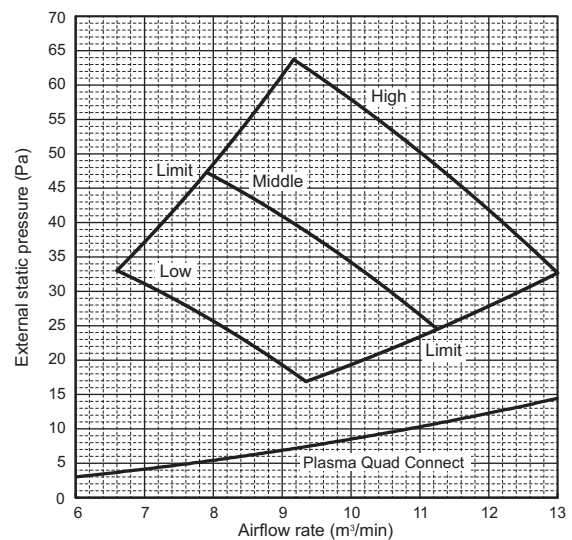
PEFY-W40VMS-A

External static pressure : 35Pa
Power source : 220-240V



PEFY-W40VMS-A

External static pressure : 50Pa
Power source : 220-240V



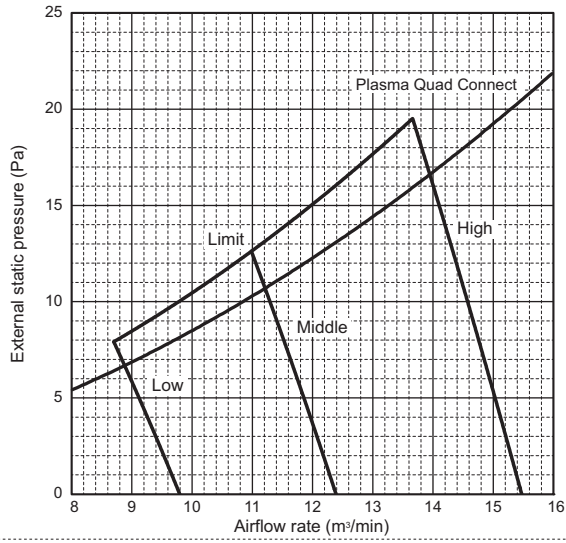
6. FAN CHARACTERISTICS CURVES

Ceiling concealed (Low static pressure type)

PEFY-W-VMS-A

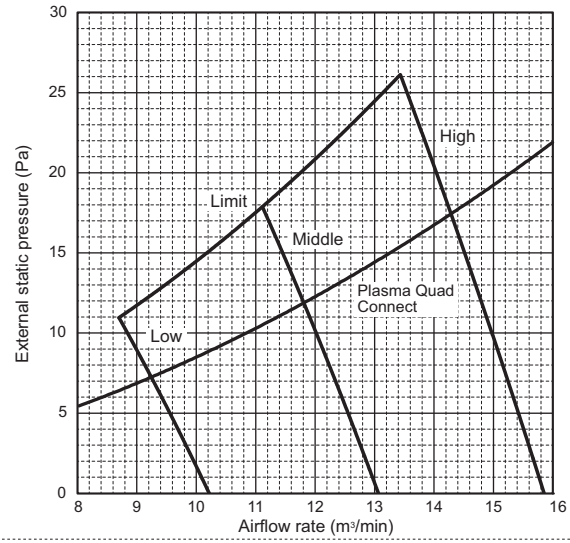
PEFY-W50VMS-A

External static pressure : 5Pa
Power source : 220-240V



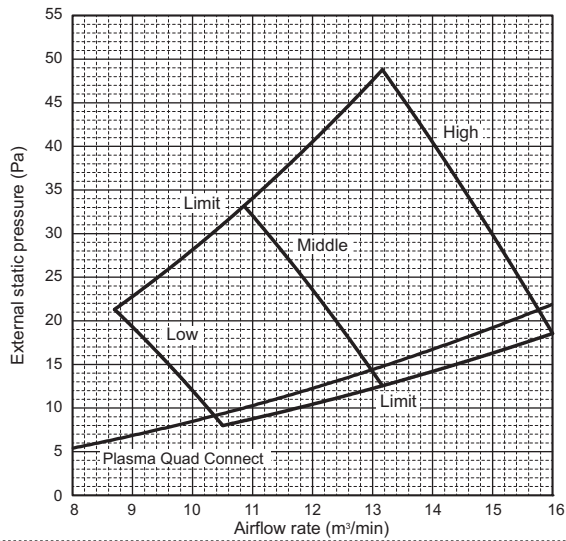
PEFY-W50VMS-A

External static pressure : 15Pa
Power source : 220-240V



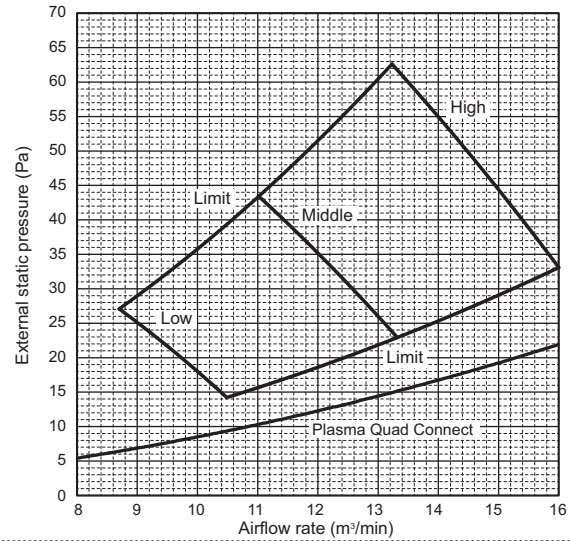
PEFY-W50VMS-A

External static pressure : 35Pa
Power source : 220-240V



PEFY-W50VMS-A

External static pressure : 50Pa
Power source : 220-240V



7. ELECTRICAL CHARACTERISTICS

Ceiling concealed (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-W-VMS-A	Power supply			IFM	
	Volts/Hz	Range +-10%	MCA(A)	Output (kW)	FLA(A)
PEFY-W10VMS-A	220-240V/50Hz 220-240V/60Hz	Max.: 264V Min.: 198V	0.55/0.55	0.096	0.44/0.44
PEFY-W15VMS-A			0.68/0.68	0.096	0.54/0.54
PEFY-W20VMS-A			0.69/0.69	0.096	0.56/0.56
PEFY-W25VMS-A			0.78/0.78	0.096	0.62/0.62
PEFY-W32VMS-A			0.88/0.88	0.096	0.70/0.70
PEFY-W40VMS-A			0.88/0.88	0.096	0.70/0.70
PEFY-W50VMS-A			0.98/0.98	0.096	0.78/0.78

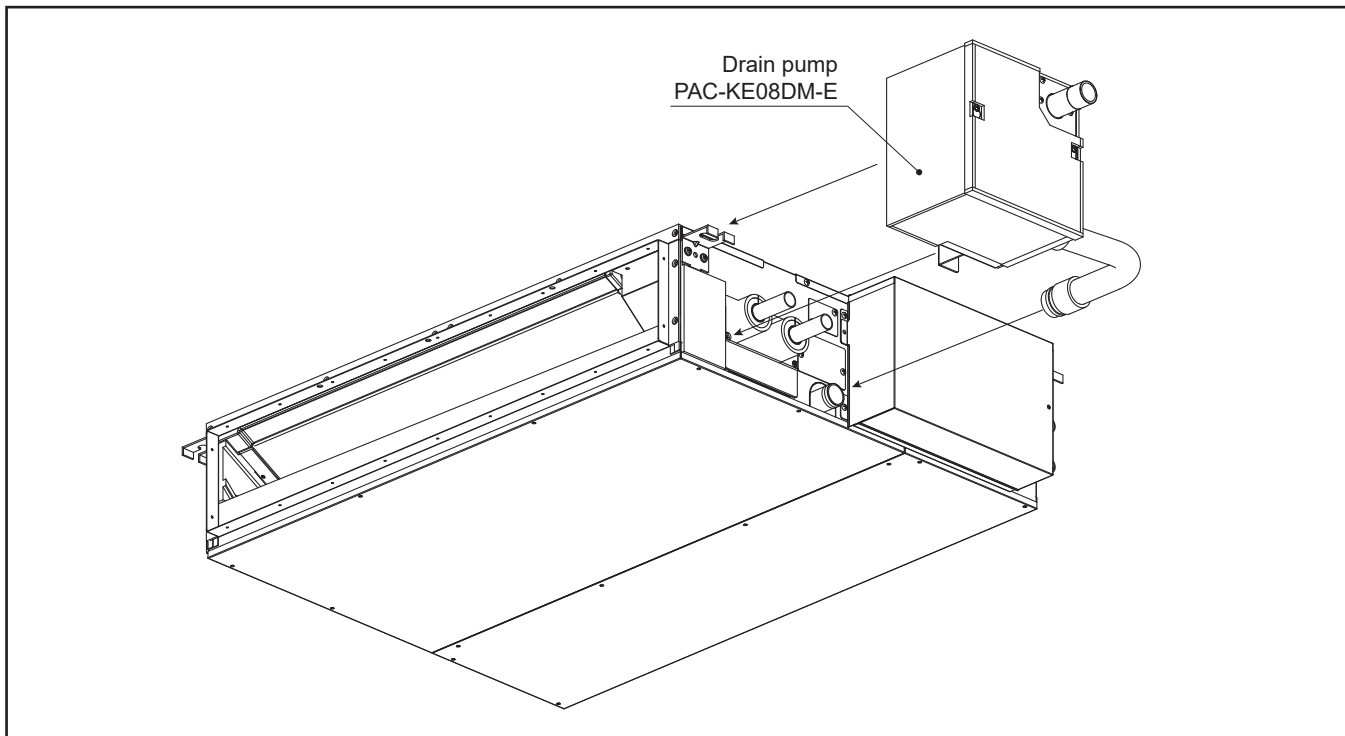
PEFY-W-VMS-A

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

	Drain pump	Plasma Quad Connect	PQ attachment
PEFY-W10, 15, 20, 25, 32, 40, 50VMS-A	PAC-KE08DM-E	MAC-100FT-E	PAC-HA11PAR

PEFY-W-VMS-A

PEFY-W-VMS-A



8-2. Drain pump

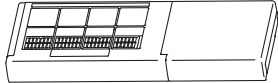
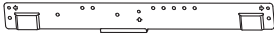

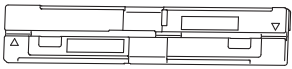

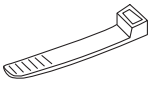

PAC-KE08DM-E					
Item	① Drain pump	② Attachment	③ Drain hose 1	④ Pipe cover 1	⑤ Pipe cover 2
Quantity	1	1	1	1	1
Shape			(385mm)	(255mm)	(200mm)
Item	⑥ Hose band	⑦ Screw	⑧ Clamp	⑨ Drain hose 2	⑩ Pipe cover 3
Quantity	1	3	3	1	1
Shape				(175mm)	
Item	⑪ Band 2				
Quantity	6				
Shape	(380mm)				

8-3. Plasma Quad Connect

Static pressure loss is referred to 6 "FAN CHARACTERISTICS CURVES". Plasma Quad Connect (MAC-100FT-E) should be used together with PQ attachment (PAC-HA11PAR).

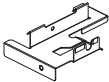
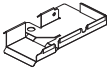

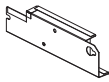


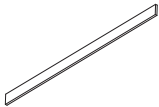
* Attaching the Plasma Quad Connect increases the pressure loss. In a certain capacity range where the airflow may not reach the rated airflow level with the factory default external static pressure setting, adjust the external static pressure setting as necessary. For the adjustment procedure, see the Installation Manual for the indoor unit.

Plasma Quad Connect (MAC-100FT-E)

Item	Plasma Quad Connect (with connecting cable)	Installation plate	Fixing screw for Plasma Quad Connect and Installation plate 4 × 25 mm
Quantity	1	1	5
Shape			
Item	Spacer Note: The spacer is used as packaging material.	Mounting cord clamp	Cable tie
Quantity	1	1	1
Shape			
Item	Screw for Mounting cord clamp 4 × 16 (Use when joining room air conditioner parts)		
Quantity	1		
Shape			

Detailed installation information should be referred to its Installation Manual.

PQ attachment (PAC-HA11PAR)

Item	PLATE 1	PLATE 2	PLATE 3	PLATE 4	Screw (4 × 10)	Screw (5 × 10)	RUBBER PLATE
Quantity	1	1	1	1	3	2	2
Shape							

Detailed installation information should be referred to its Installation Manual.

8. OPTIONAL PARTS

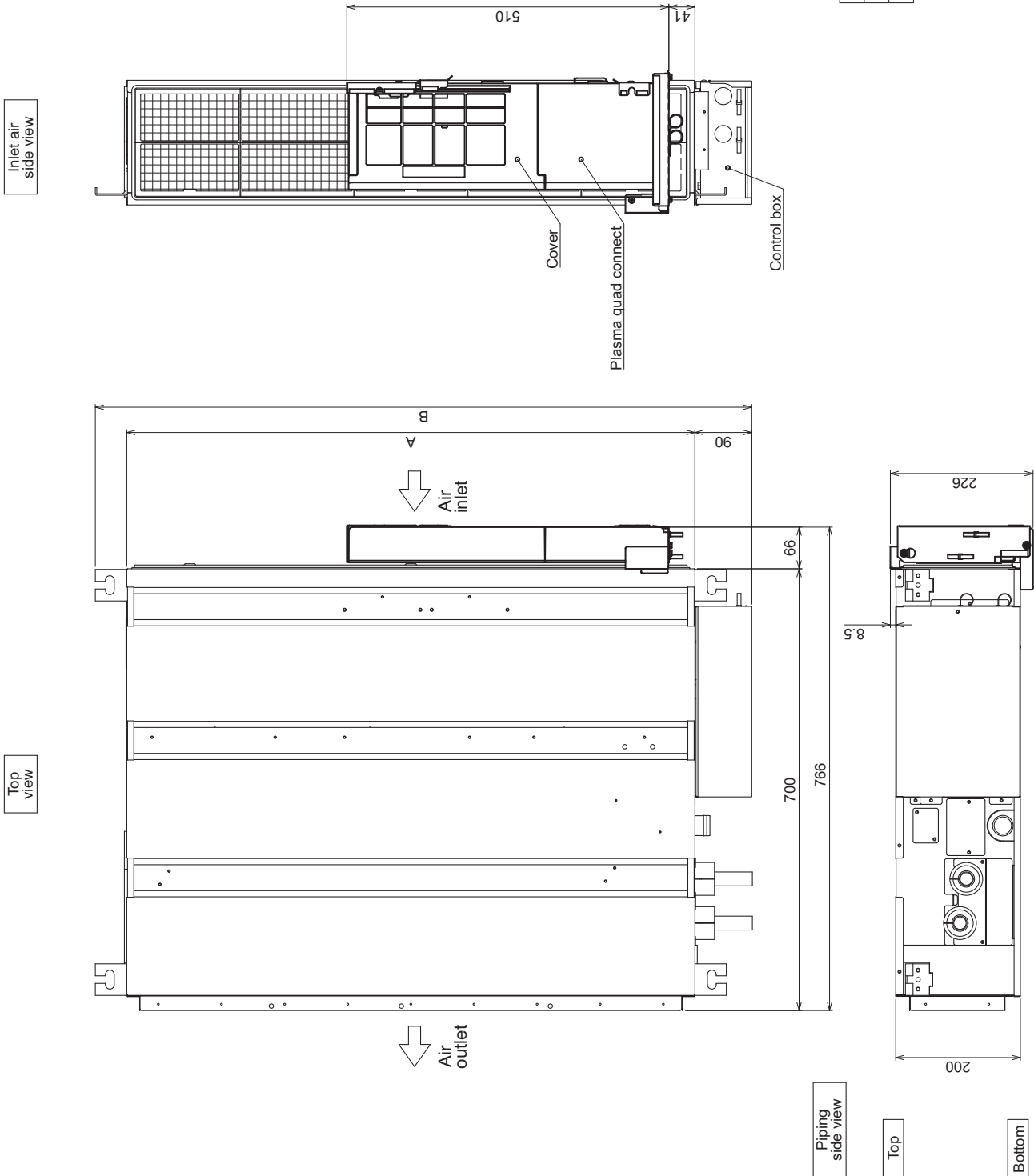
Ceiling concealed (Low static pressure type)

PEFY-W10, 15, 20, 25, 32, 40, 50VMS-A
with PQ attachment and Plasma Quad Connect

Unit: mm

PEFY-W-VMS-A

WIDE A	B
700	839
900	1039



Model	WIDE A	B
PEFY-W10,15,20,25,32VMS-A	700	839
PEFY-W40,50VMS-A	900	1039

The drawing above is a sample image of the optional parts being installed on a unit.

PEFY-W10, 15, 20, 25, 32, 40, 50VMS-A
with PQ attachment and Plasma Quad Connect

Unit: mm

[Maintenance access space]
Secure enough access space to allow for the maintenance, inspection, and replacement of the motor, fan, heat exchanger, and control 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 (450×450mm each) as shown in Fig.2.
(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 control box and access door 3 below the unit as shown in Fig.4.
or
• Create access door 4 below the control box and the unit as shown in Fig.5.
(3) For maintenance if there is more than 170mm from the top surface, the cover can be pulled out without removing the PQ attachment. (Fig.1, Fig.3)

(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 (450×450mm each) as shown in Fig.2.
(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 control box and access door 3 below the unit as shown in Fig.4.
or
• Create access door 4 below the control box and the unit as shown in Fig.5.
(3) For maintenance if there is more than 170mm from the top surface, the cover can be pulled out without removing the PQ attachment. (Fig.1, Fig.3)

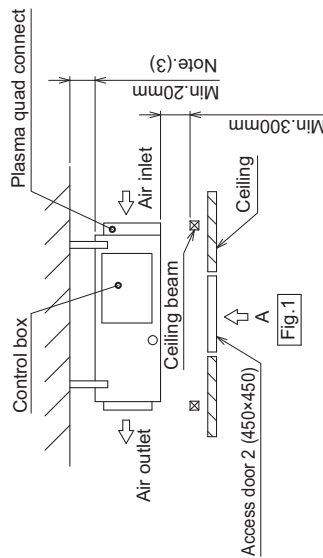


Fig.1

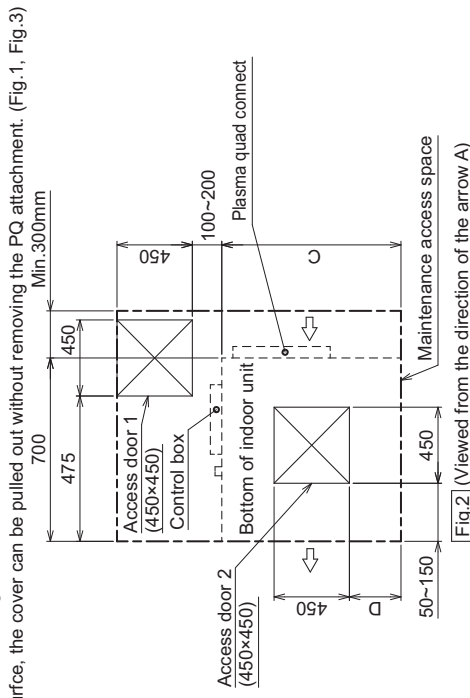


Fig.2 (Viewed from the direction of the arrow A)

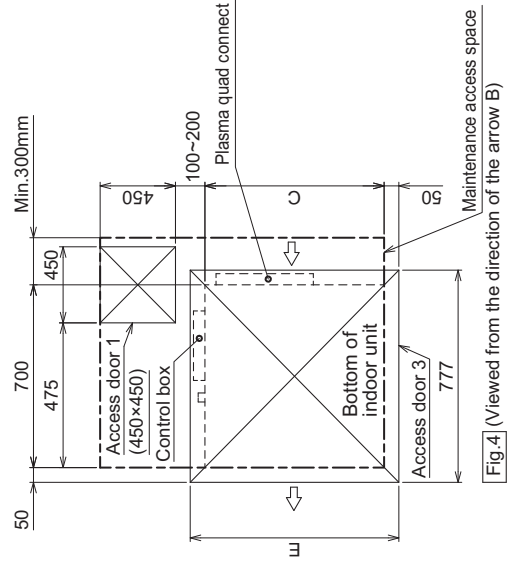


Fig.4 (Viewed from the direction of the arrow B)

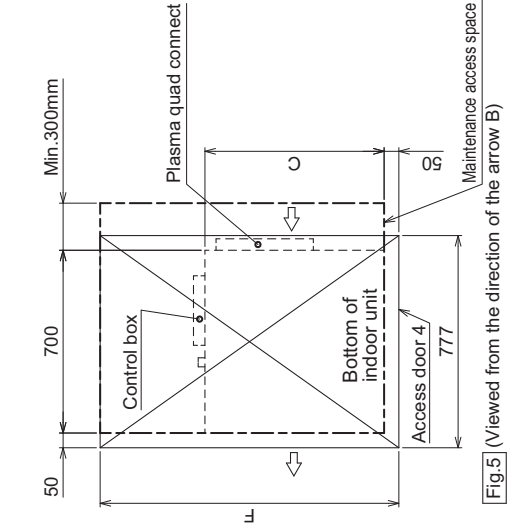


Fig.5 (Viewed from the direction of the arrow B)

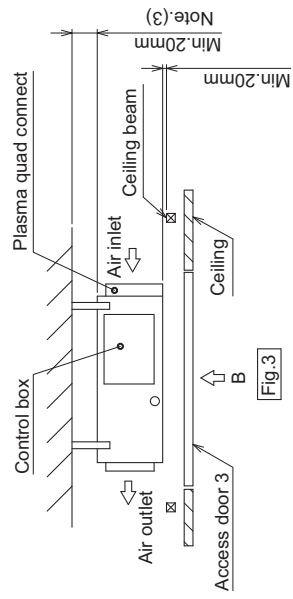


Fig.3

WIDE C	D	E	F
700	50~150	800	1300
900	150~250	1000	1500

Model	WIDE C	D	E	F
PEFY-W10,15,20,25,32VMS-A	700	50~150	800	1300
PEFY-W40,50VMS-A	900	150~250	1000	1500

The drawing above is a sample image of the optional parts being installed on a unit.

⚠ Warning

- Do not use refrigerant other than the type indicated in the manuals provided with the unit and on the nameplate.
 - Doing so may cause the unit or pipes to burst, or result in explosion or fire during use, repair, or at the time of disposal of the unit.
 - It may also be in violation of applicable laws.
 - MITSUBISHI ELECTRIC CORPORATION cannot be held responsible for malfunctions or accidents resulting from the use of the wrong type of refrigerant.
- Our air conditioning equipment and heat pumps contain a fluorinated greenhouse gas, R410A/R32.

MITSUBISHI ELECTRIC CORPORATION

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