

AIR CONDITIONING SYSTEMS

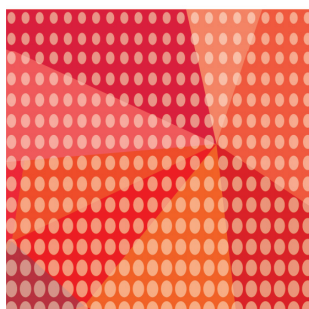
CITY MULTI



DATA BOOK

MODEL

PEFY-P-NMAU-E4



PEFY-P-NMAU-E4

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1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-P-NMAU-E4

Model			PEFY-P06NMAU-E4	PEFY-P08NMAU-E4	PEFY-P12NMAU-E4	PEFY-P15NMAU-E4	
Power source			1-phase 208/230 V 60 Hz	1-phase 208/230 V 60 Hz	1-phase 208/230 V 60 Hz	1-phase 208/230 V 60 Hz	
Cooling capacity (Nominal)	*1	BTU/h	6,000	8,000	12,000	15,000	
	*1	kW	1.8	2.3	3.5	4.4	
	*2	Power input	kW	0.042	0.052	0.062	
	*2	Current input	A	0.42/0.38	0.56/0.51	0.64/0.58	
Heating capacity (Nominal)	*3	BTU/h	6,700	9,000	13,500	17,000	
	*3	kW	2.0	2.6	4.0	5.0	
	*2	Power input	kW	0.040	0.050	0.060	
	*2	Current input	A	0.42/0.38	0.56/0.51	0.64/0.58	
External finish			Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	
External dimension H x W x D		inch	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 35-7/16 x 28-7/8	
		mm	250 x 700 x 732	250 x 700 x 732	250 x 700 x 732	250 x 900 x 732	
Net weight		lbs (kg)	47 (21)	47 (21)	47 (21)	58 (26)	
Heat exchanger			Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	
FAN	Type x Quantity		Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 2	
	*4	External static press.	in.WG	<0.14> - 0.20 - <0.28> - <0.40> - <0.60>	<0.14> - 0.20 - <0.28> - <0.40> - <0.60>	<0.14> - 0.20 - <0.28> - <0.40> - <0.60>	
			Pa	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	
	Motor Type		DC motor	DC motor	DC motor	DC motor	
	Motor output		kW	0.085	0.085	0.085	0.121
	Driving mechanism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	
	Air flow rate		(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	
			cfm	212 - 265 - 300	212 - 265 - 300	265 - 318 - 371	353 - 424 - 494
			m³/min	6.0 - 7.5 - 8.5	6.0 - 7.5 - 8.5	7.5 - 9.0 - 10.5	10.0 - 12.0 - 14.0
			L/s	100 - 125 - 142	100 - 125 - 142	125 - 150 - 175	167 - 200 - 233
Sound pressure level (measured in anechoic room)		(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)		
*2		dB <A>	24-28-30	24-28-30	26-30-34	27-31-34	
Insulation material			EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	
Air filter			PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	
Protection device			Fuse	Fuse	Fuse	Fuse	
Refrigerant control device			LEV	LEV	LEV	LEV	
Connectable outdoor unit			R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI	
Diameter of refrigerant pipe	Liquid (R410A)	inch (mm)	1/4 (6.35)Braze	1/4 (6.35)Braze	1/4 (6.35)Braze	1/4 (6.35)Braze	
	Gas (R410A)	inch (mm)	1/2 (12.7)Braze	1/2 (12.7)Braze	1/2 (12.7)Braze	1/2 (12.7)Braze	
Field drain pipe size		inch (mm)	O.D.1-1/4 (32)	O.D.1-1/4 (32)	O.D.1-1/4 (32)	O.D.1-1/4 (32)	
Drawing	External		KB94C2RE	KB94C2RE	KB94C2RE	KB94C2RE	
	Wiring		KB94C2Y4	KB94C2Y4	KB94C2Y4	KB94C2Y4	
	Refrigerant cycle		-	-	-	-	
Standard attachment	Document		Installation Manual, Instruction Book	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	Washer, Drain hose, Tie band	
Optional parts	External heater adapter		PAC-YU25HT	PAC-YU25HT	PAC-YU25HT	PAC-YU25HT	
	Filter box		PAC-KE91TB-E	PAC-KE91TB-E	PAC-KE91TB-E	PAC-KE92TB-E	
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: 80°F.D.B./67°F.W.B. (26.7°C.D.B./19.4°C.W.B.), Outdoor: 95°F.D.B. (35°C.D.B.) Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)		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: 70°F.D.B. (21.1°C.D.B.), Outdoor: 47°F.D.B./43°F.W.B. (8.3°C.D.B./6.1°C.W.B.) Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)		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.		*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

Model				PEFY-P18NMAU-E4	PEFY-P24NMAU-E4	PEFY-P27NMAU-E4	PEFY-P30NMAU-E4
Power source				1-phase 208/230 V 60 Hz	1-phase 208/230 V 60 Hz	1-phase 208/230 V 60 Hz	1-phase 208/230 V 60 Hz
Cooling capacity (Nominal)	*1	BTU/h		18,000	24,000	27,000	30,000
		*1 kW		5.3	7.0	7.9	8.8
	*2	Power input	kW	0.082	0.142	0.142	0.142
		*2 Current input	A	0.82/0.74	1.24/1.12	1.24/1.12	1.24/1.12
Heating capacity (Nominal)	*3	BTU/h		20,000	27,000	30,000	34,000
		*3 kW		5.9	7.9	8.8	10.0
	*2	Power input	kW	0.080	0.140	0.140	0.140
		*2 Current input	A	0.82/0.74	1.24/1.12	1.24/1.12	1.24/1.12
External finish				Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate
External dimension H x W x D			inch	9-7/8 x 35-7/16 x 28-7/8	9-7/8 x 43-5/16 x 28-7/8	9-7/8 x 43-5/16 x 28-7/8	9-7/8 x 43-5/16 x 28-7/8
			mm	250 x 900 x 732	250 x 1,100 x 732	250 x 1,100 x 732	250 x 1,100 x 732
Net weight			lbs (kg)	58 (26)	67 (30)	67 (30)	67 (30)
Heat exchanger				Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)
FAN	*4	Type x Quantity		Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2
		External static press.	in.WG	<0.14> - 0.20 - <0.28> - <0.40> - <0.60>	<0.14> - 0.20 - <0.28> - <0.40> - <0.60>	<0.14> - 0.20 - <0.28> - <0.40> - <0.60>	<0.14> - 0.20 - <0.28> - <0.40> - <0.60>
			Pa	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>
		Motor Type		DC motor	DC motor	DC motor	DC motor
	Motor output		kW	0.121	0.121	0.121	0.121
	Driving mechanism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	
	Air flow rate		(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	
			cfm	424 - 512 - 600	618 - 742 - 883	618 - 742 - 883	618 - 742 - 883
			m³/min	12.0 - 14.5 - 17.0	17.5 - 21.0 - 25.0	17.5 - 21.0 - 25.0	17.5 - 21.0 - 25.0
			L/s	200 - 242 - 283	292 - 350 - 417	292 - 350 - 417	292 - 350 - 417
Sound pressure level (measured in anechoic room)			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	
			*2 dB <A>	29-33-37	31-35-39	31-35-39	31-35-39
Insulation material				EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam
Air filter				PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.
Protection device				Fuse	Fuse	Fuse	Fuse
Refrigerant control device				LEV	LEV	LEV	LEV
Connectable outdoor unit				R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI
Diameter of refrigerant pipe	Liquid	(R410A)	inch (mm)	1/4 (6.35)Brazed	3/8 (9.52)Brazed	3/8 (9.52)Brazed	3/8 (9.52)Brazed
	Gas	(R410A)	inch (mm)	1/2 (12.7)Brazed	5/8 (15.88)Brazed	5/8 (15.88)Brazed	5/8 (15.88)Brazed
Field drain pipe size			inch (mm)	O.D.1-1/4 (32)	O.D.1-1/4 (32)	O.D.1-1/4 (32)	O.D.1-1/4 (32)
Drawing	External			KB94C2RE	KB94C2RE	KB94C2RE	KB94C2RE
	Wiring			KB94C2Y4	KB94C2Y4	KB94C2Y4	KB94C2Y4
	Refrigerant cycle			-	-	-	-
Standard attachment	Document			Installation Manual, Instruction Book	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	Washer, Drain hose, Tie band
Optional parts	External heater adapter			PAC-YU25HT	PAC-YU25HT	PAC-YU25HT	PAC-YU25HT
	Filter box			PAC-KE92TB-E	PAC-KE93TB-E	PAC-KE93TB-E	PAC-KE93TB-E
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: 80°FDB./67°FWB. (26.7°CDB./19.4°CWB.), Outdoor: 95°FDB. (35°CDB.) Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)	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: 70°FDB. (21.1°CDB.), Outdoor: 47°FDB./43°FWB. (8.3°CDB./6.1°CWB.) Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)	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.	
	*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-P-NMAU-E4

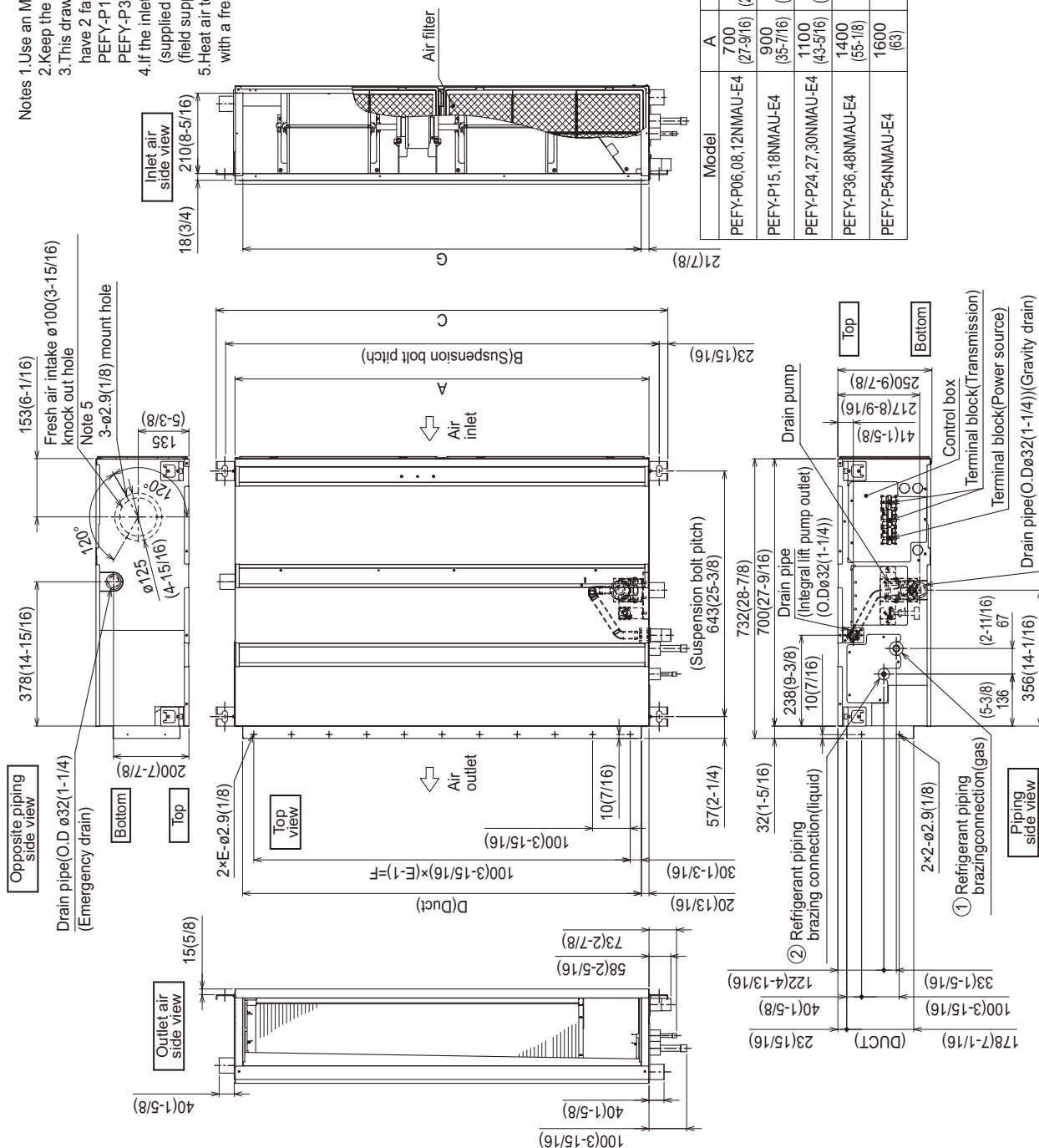
Model			PEFY-P36NMAU-E4	PEFY-P48NMAU-E4	PEFY-P54NMAU-E4		
Power source			1-phase 208/230 V 60 Hz	1-phase 208/230 V 60 Hz	1-phase 208/230 V 60 Hz		
Cooling capacity (Nominal)	*1	BTU/h	36,000	48,000	54,000		
	*1	kW	10.6	14.1	15.8		
	*2	Power input	kW	0.222	0.242	0.252	
	*2	Current input	A	2.01/1.82	2.06/1.87	2.29/2.07	
Heating capacity (Nominal)	*3	BTU/h	40,000	54,000	60,000		
	*3	kW	11.7	15.8	17.6		
	*2	Power input	kW	0.220	0.240	0.250	
	*2	Current input	A	2.01/1.82	2.06/1.87	2.29/2.07	
	External finish			Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	
External dimension H x W x D		inch	9-7/8 x 55-1/8 x 28-7/8	9-7/8 x 55-1/8 x 28-7/8	9-7/8 x 63 x 28-7/8		
		mm	250 x 1,400 x 732	250 x 1,400 x 732	250 x 1,600 x 732		
Net weight		lbs (kg)	84 (38)	86 (39)	91 (41)		
Heat exchanger			Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)		
FAN	Type x Quantity		Sirocco fan x 3	Sirocco fan x 3	Sirocco fan x 3		
	*4	External static press.	in.WG	<0.14> - 0.20 - <0.28> - <0.40> - <0.60>	<0.14> - 0.20 - <0.28> - <0.40> - <0.60>	<0.14> - 0.20 - <0.28> - <0.40> - <0.60>	
			Pa	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	
	Motor Type		DC motor	DC motor	DC motor		
	Motor output		kW	0.300	0.300	0.300	
	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)		
			cfm	883 - 1,077 - 1,271	918 - 1,112 - 1,306	989 - 1,201 - 1,413	
			m³/min	25.0 - 30.5 - 36.0	26.0 - 31.5 - 37.0	28.0 - 34.0 - 40.0	
			L/s	417 - 508 - 600	433 - 525 - 617	467 - 567 - 667	
Sound pressure level (measured in anechoic room)			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)		
*2		dB <A>	35-39-43	35-40-44	34-38-42		
Insulation material			EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam		
Air filter			PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.		
Protection device			Fuse	Fuse	Fuse		
Refrigerant control device			LEV	LEV	LEV		
Connectable outdoor unit			R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI		
Diameter of refrigerant pipe	Liquid (R410A)	inch (mm)	3/8 (9.52)Brazed	3/8 (9.52)Brazed	3/8 (9.52)Brazed		
	Gas (R410A)	inch (mm)	5/8 (15.88)Brazed	5/8 (15.88)Brazed	5/8 (15.88)Brazed		
Field drain pipe size		inch (mm)	O.D. 1-1/4 (32)	O.D. 1-1/4 (32)	O.D. 1-1/4 (32)		
Drawing	External		KB94C2RE	KB94C2RE	KB94C2RE		
	Wiring		KB94C2Y4	KB94C2Y4	KB94C2Y4		
	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	External heater adapter		PAC-YU25HT	PAC-YU25HT	PAC-YU25HT		
	Filter box		PAC-KE94TB-E	PAC-KE94TB-E	PAC-KE95TB-E		
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: 80°FDB./67°FWB. (26.7°CDB./19.4°CWB.), Outdoor: 95°FDB. (35°CDB.) Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)		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: 70°FDB. (21.1°CDB.), Outdoor: 47°FDB./43°FWB. (8.3°CDB./6.1°CWB.) Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)		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.		*Above specification data is subject to rounding variation.

Ceiling concealed (Medium static pressure type)

Unit: mm (in.)

- Notes 1. Use an M10 screw for the suspension bolt (field supply).
2. Keep the service space for maintenance at the bottom.
3. This drawing is for PEFY-P24-27-30NMAU-E4 models, which have 2 fans. PEFY-P06-08-12NMAU-E4 models have 1 fan. PEFY-P15-18NMAU-E4 models have 2 fans. PEFY-P36-48-54NMAU-E4 models have 3 fans.
4. If the inlet duct is used, remove the air filter (supplied with the unit), then install the filter (field supply) at the suction side.
5. Heat air to 0° (32°F) or higher when taking fresh air with a fresh air intake.



Unit:mm(in.)		① Gas pipe	② Liquid pipe
Model	PEFY-P06,08,12NMAU-E4	ø12.7 (1/2)	ø6.35 (1/4)
	PEFY-P15,18NMAU-E4		
Model	PEFY-P24,27,30NMAU-E4	ø15.88 (5/8)	ø9.52 (3/8)
	PEFY-P36,48NMAU-E4		
	PEFY-P54NMAU-E4		

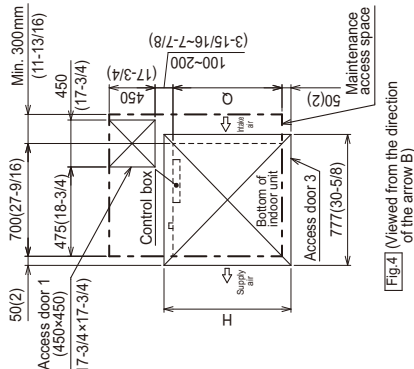
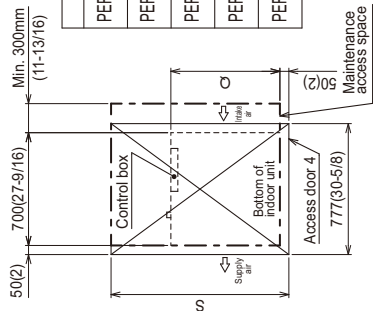
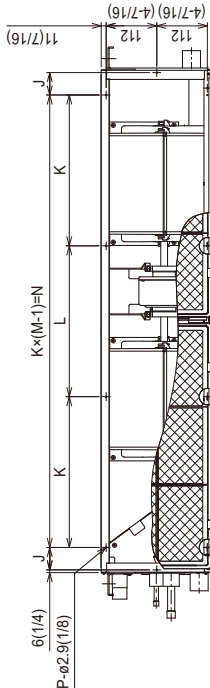
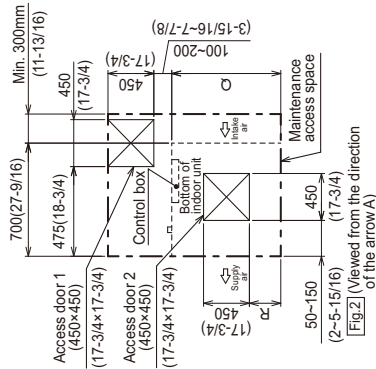
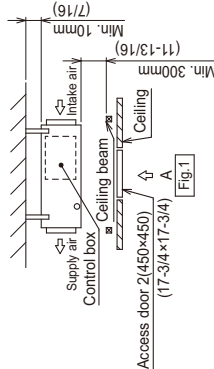
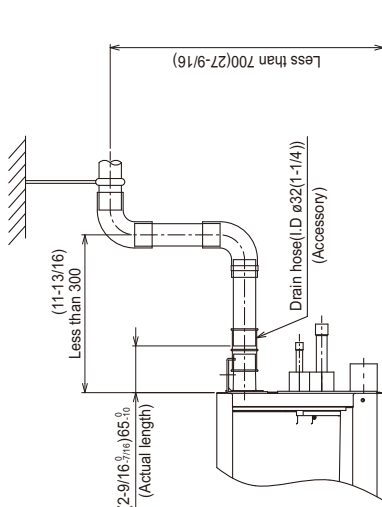
Model	A	B	C	D	E	F	G
PEFY-P06,08,12NMAU-E4	700 (29-916)	754 (29-1116)	800 (31-112)	660 (26)	7	600 (23-58)	658 (25-1516)
PEFY-P15,18NMAU-E4	900 (35-716)	954 (37-916)	1000 (39-38)	860 (33-78)	9	800 (31-12)	858 (33-1316)
PEFY-P24,27,30NMAU-E4	1100 (43-516)	1154 (45-716)	1200 (47-114)	1060 (41-34)	11	1000 (39-38)	1058 (41-1116)
PEFY-P36,48NMAU-E4	1400 (55-18)	1454 (57-14)	1500 (59-116)	1360 (53-916)	14	1300 (51-316)	1358 (53-12)
PEFY-P54NMAU-E4	1600 (63)	1654 (66-118)	1700 (66-1116)	1560 (61-716)	16	1500 (59-116)	1558 (61-318)

PEFY-P06, 08, 12, 15, 18, 24, 27, 30, 36, 48, 54NMAU-E4

Unit: mm (in.)

[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 it's 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.



Model	H	J	K	L	M	N	P	Q	R	S
PEFY-P06,08,12NMAU-E4	800 (31-1/2)	44 (1-3/4)	150 (5-15/16)	300 (11-13/16)	4	780 (30-3/4)	10 (27-9/16)	700 (27-9/16)	50-150 (2-5/16-5/16)	1300 (51-3/16)
PEFY-P15,18NMAU-E4	1000 (39-3/8)	54 (2-1/8)	260 (10-1/4)	4	900 (35-7/16)	10 (31-3/4)	900 (35-7/16)	150-250 (5-15/16-9-7/8)	150-250 (5-15/16-9-7/8)	1500 (59-1/8)
PEFY-P24,27,30NMAU-E4	1200 (47-1/4)	49 (1-15/16)	330 (13)	4	990 (39-3/8)	10 (31-3/4)	1100 (43-5/16)	250-350 (9-7/8-13-13/16)	250-350 (9-7/8-13-13/16)	1700 (66-15/16)
PEFY-P36,48NMAU-E4	1500 (59-1/8)	54 (2-1/8)	320 (12-5/8)	5	1280 (50-7/8)	12 (31-3/4)	1400 (55-1/8)	400-500 (15-3/4-19-1/16)	400-500 (15-3/4-19-1/16)	2000 (78-3/4)
PEFY-P54NMAU-E4	1700 (66-15/16)	54 (2-1/8)	370 (14-5/8)	5	1480 (58-5/16)	12 (31-3/4)	1600 (63)	500-600 (19-1/16-23-5/8)	500-600 (19-1/16-23-5/8)	2200 (86-3/8)

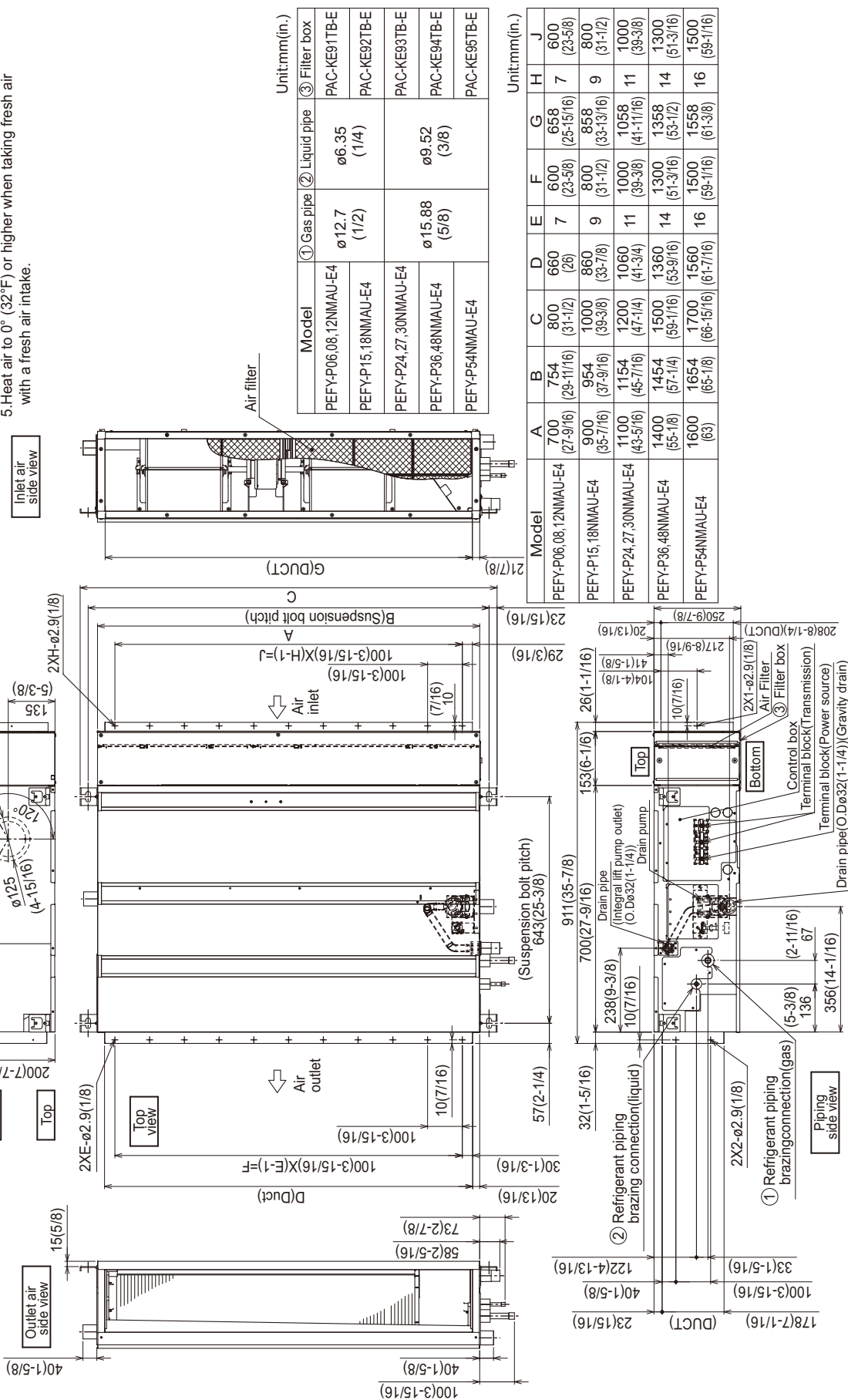
[Fig.5] Viewed from the direction of the arrow B

[Fig.4] Viewed from the direction of the arrow B

PEFY-P06, 08, 12, 15, 18, 24, 27, 30, 36, 48, 54NMAU-E4 with filter box

Unit: mm (in.)

- Notes
1. Use an M10 screw for the suspension bolt (field supply).
 2. Keep the service space for maintenance at the bottom.
 3. This drawing is for PEFY-P24-27-30NMAU-E4 models which have 2 fans. PEFY-P06-08-12NMAU-E4 models have 1 fan. PEFY-P15-18NMAU-E4 models have 2 fans. PEFY-P36-48-54NMAU-E4 models have 3 fans.
 4. Use air filter installed with indoor unit.
 5. Heat air to 0° (32°F) or higher when taking fresh air with a fresh air intake.

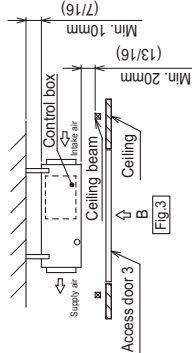
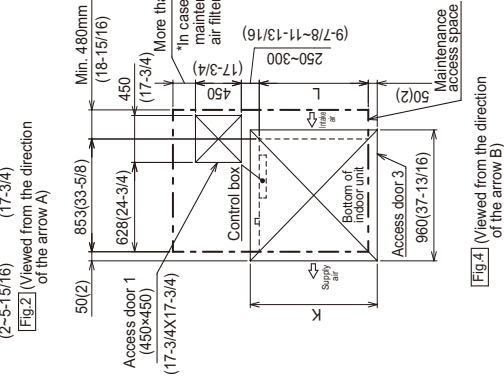
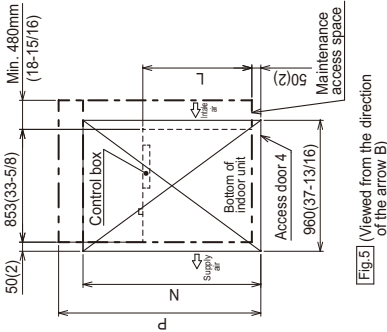
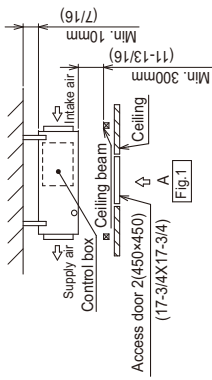
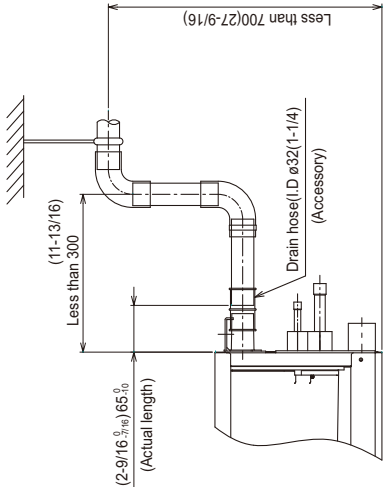


PEFY-P06, 08, 12, 15, 18, 24, 27, 30, 36, 48, 54NMAU-E4

Unit: mm (in.)

[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 it's maintenance access space will not be obstructed by beams or other objects.

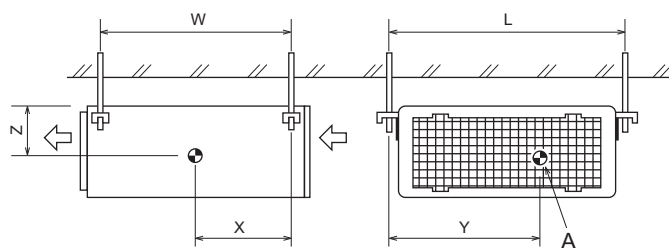
- (1) When a space of 300mm or more is available below the unit between the unit and the ceiling. (Fig.1)
 - Create access door 1 and 2 (450x450mm each) as shown in Fig.2.
 - (Access door 2 is not required if enough space is available below the unit for a maintenance worker to work in.)
- (2) When a 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.



*Dimension 'P' is in case of side maintenance for air filter.
Unit:mm(in.)

Model	K	L	M	N	P*
PEFY-P06,08,12NMAU-E4	800 (31-1/2)	700 (27-9/16)	50-150 (2)-(5-5/16)	1300 (51-3/16)	1450 (57-1/8)
PEFY-P15,18NMAU-E4	1000 (39-3/8)	900 (35-7/16)	150-250 (5-15/16)-(9-7/8)	1500 (59-1/16)	1850 (72-7/8)
PEFY-P24,27,30NMAU-E4	1200 (47-1/4)	1100 (43-5/16)	250-350 (9-7/8)-(13-1/16)	1700 (66-15/16)	2150 (84-11/16)
PEFY-P36,48NMAU-E4	1500 (59-1/16)	1400 (55-1/8)	400-500 (15-3/4)-(19-11/16)	2200 (86-5/8)	2550 (100-7/16)
PEFY-P54NMAU-E4	1700 (66-15/16)	1600 (63)	500-600 (19-11/16)-(23-5/8)	2200 (86-5/8)	2550 (100-7/16)

PEFY-P06, 08, 12, 15, 18, 24, 27, 30, 36, 48, 54NMAU-E4



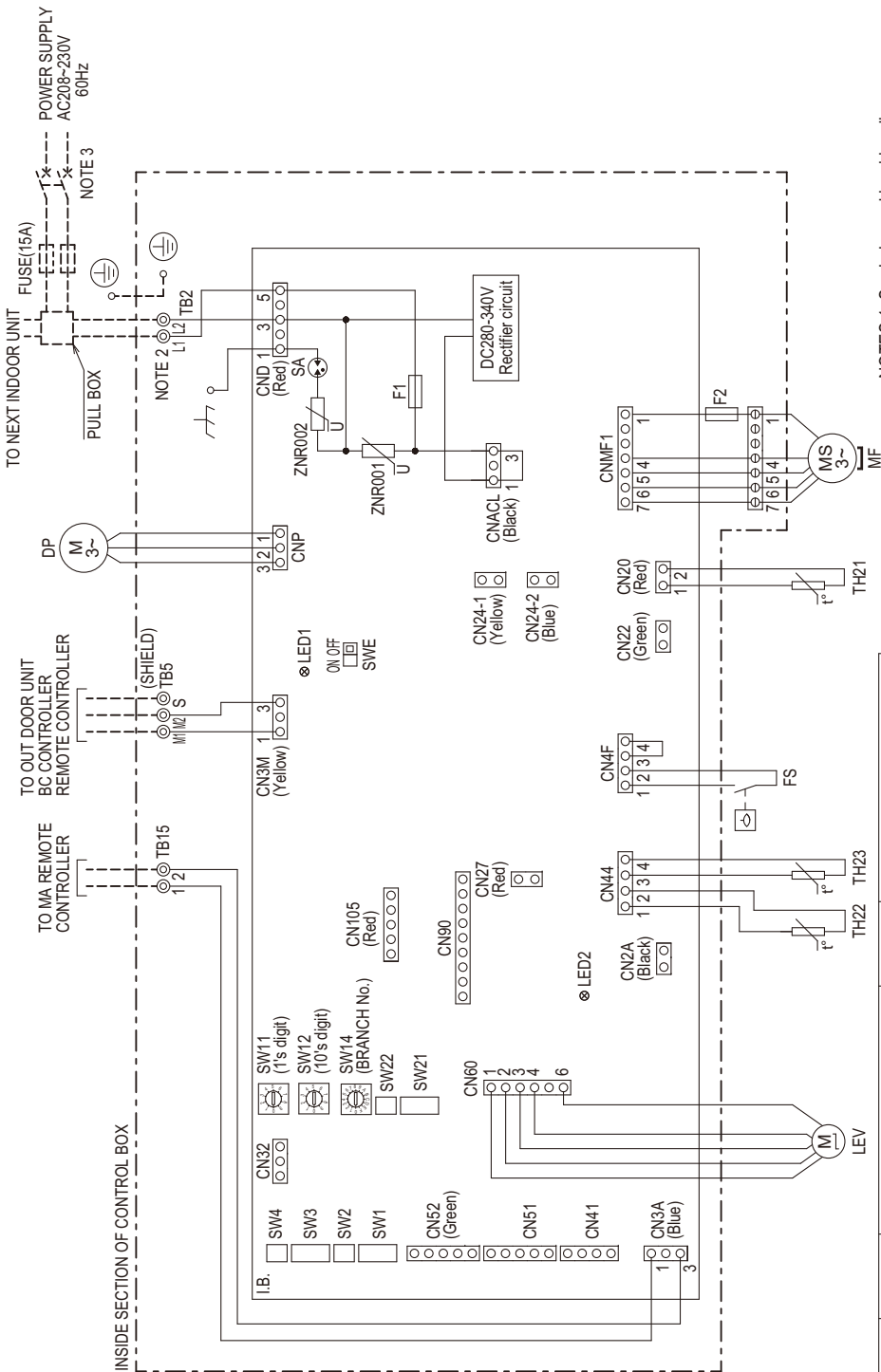
A : Center of gravity

(mm) [in]

Model name	W	L	X	Y	Z
PEFY-P06NMAU-E4	643 [25 - 6/16]	754 [29 - 11/16]	330 [13]	300 [11 - 13/16]	130 [5 - 2/16]
PEFY-P08NMAU-E4	643 [25 - 6/16]	754 [29 - 11/16]	330 [13]	300 [11 - 13/16]	130 [5 - 2/16]
PEFY-P12NMAU-E4	643 [25 - 6/16]	754 [29 - 11/16]	330 [13]	300 [11 - 13/16]	130 [5 - 2/16]
PEFY-P15NMAU-E4	643 [25 - 6/16]	954 [37 - 9/16]	340 [13 - 7/16]	375 [14 - 13/16]	130 [5 - 2/16]
PEFY-P18NMAU-E4	643 [25 - 6/16]	954 [37 - 9/16]	340 [13 - 7/16]	375 [14 - 13/16]	130 [5 - 2/16]
PEFY-P24NMAU-E4	643 [25 - 6/16]	1154 [45 - 7/16]	325 [12 - 13/16]	525 [20 - 11/16]	130 [5 - 2/16]
PEFY-P27NMAU-E4	643 [25 - 6/16]	1154 [45 - 7/16]	325 [12 - 13/16]	525 [20 - 11/16]	130 [5 - 2/16]
PEFY-P30NMAU-E4	643 [25 - 6/16]	1154 [45 - 7/16]	325 [12 - 13/16]	525 [20 - 11/16]	130 [5 - 2/16]
PEFY-P36NMAU-E4	643 [25 - 6/16]	1454 [57 - 4/16]	330 [13]	675 [26 - 10/16]	130 [5 - 2/16]
PEFY-P48NMAU-E4	643 [25 - 6/16]	1454 [57 - 4/16]	330 [13]	675 [26 - 10/16]	130 [5 - 2/16]
PEFY-P54NMAU-E4	643 [25 - 6/16]	1654 [65 - 2/16]	332 [13 - 2/16]	725 [28 - 9/16]	130 [5 - 2/16]

PEFY-P-NMAU-E4

PEFY-P06, 08, 12, 15, 18, 24, 27, 30, 36, 48, 54NMAU-E4



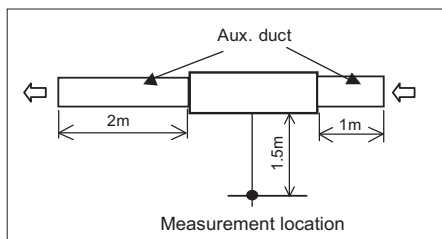
SYMBOL EXPLANATION

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
DP	Drain Pump	I.B.	Indoor controller board	I.B.	Indoor controller board
F2	Fuse DC400V 3A SHV11	SA	Arrester	SW1	Switch (for mode selection)
FS	Float switch	F1	Fuse AC250V 6.3A (TP) M-BL8A04	SW2	Switch (for capacity code)
MF	Fan Motor	ZNR01.002	Varistor	SW3	Switch (for mode selection)
LEV	Linear expansion valve	CN2A	Connector (0-10V Analog input)	SW4	Switch (for model selection)
TB5	Power source terminal block	CN22	Connector (Fan control)	SW11	Switch (1's digit address set)
TB15	Transmission terminal block	CN24-1	Connector (Heater control 1st)	SW12	Switch (10's digit address set)
TH21	Thermistor (inlet air temp. detection)	CN24-2	Connector (Heater control 2nd)	SW14	Switch (BRANCH No.)
TH22	Thermistor (piping temp. detection/liquid)	CN27	Connector (Dampener)	SW21	Switch (for static pressure selection)
TH23	Thermistor (piping temp. detection/gas)	CN32	Connector (Remote switch)	SW22	Switch (Wireless pair No.)
		CN41	Connector (HA terminal-A)	SWE	Connector (emergency operation)
		CN51	Connector (Centrally control)	LED1	LED (Power supply)
		CN52	Connector (Remote indication)	LED2	LED (Remote controller supply)
		CN90	Connector (Wireless)		
		CN105	Connector (IT terminal)		

- NOTES:1. Symbols used in wiring diagram are
- ○ ○ ○ : Connector, ⊙ : Terminal,
 - (Heavy dotted line): Field wiring.
 - 2. Use copper supply wires.
 - 3. A disconnect should be required by local code.
- Utilisez des fils d'alimentation en cuivre.
Se procurer un sectionneur conforme aux réglementations Locales.

5-1. Sound levels

PEFY-P-NMAU-E4



* Measured in anechoic room.

Sound level at anechoic room : Low-Mid-High

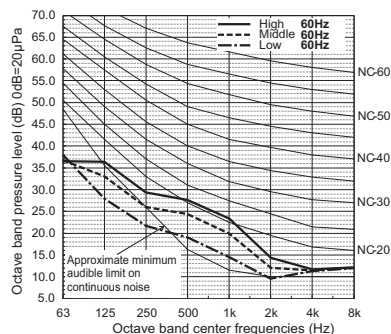
Model	Sound level dB(A)				
	35Pa	50Pa	70Pa	100Pa	150Pa
PEFY-P06NMAU-E4	22-26-29	24-28-30	26-30-34	28-32-36	32-36-40
PEFY-P08NMAU-E4	22-26-29	24-28-30	26-30-34	28-32-36	32-36-40
PEFY-P12NMAU-E4	26-29-32	26-30-34	28-32-36	29-33-37	32-36-40
PEFY-P15NMAU-E4	25-29-32	27-31-34	28-32-36	30-34-38	34-38-42
PEFY-P18NMAU-E4	28-32-36	29-33-37	30-34-38	32-36-40	36-40-44
PEFY-P24NMAU-E4	31-35-39	31-35-39	32-37-40	34-38-42	37-41-45
PEFY-P27NMAU-E4	31-35-39	31-35-39	32-37-40	34-38-42	37-41-45
PEFY-P30NMAU-E4	31-35-39	31-35-39	32-37-40	34-38-42	37-41-45
PEFY-P36NMAU-E4	34-39-42	35-39-43	36-40-44	38-42-46	41-45-49
PEFY-P48NMAU-E4	35-39-43	35-40-44	37-41-45	38-42-46	40-44-48
PEFY-P54NMAU-E4	33-37-41	34-38-42	35-39-43	37-41-45	39-43-47

5-2. NC curves

PEFY-P06,08NMAU-E4

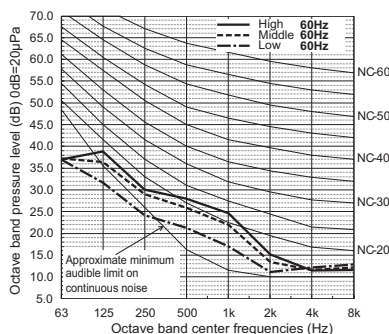
External Static Pressure: 35Pa [0.14in.WG]

Power Source: 208-230V(60Hz)

**PEFY-P06,08NMAU-E4**

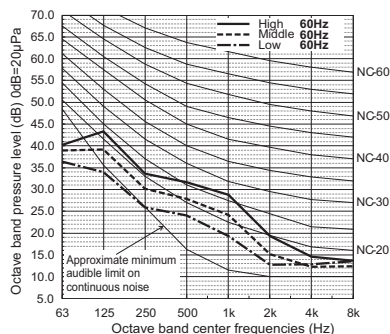
External Static Pressure: 50Pa [0.20in.WG]

Power Source: 208-230V(60Hz)

**PEFY-P06,08NMAU-E4**

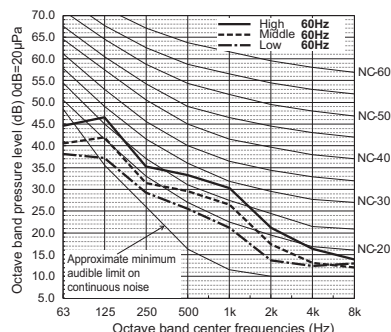
External Static Pressure: 70Pa [0.28in.WG]

Power Source: 208-230V(60Hz)

**PEFY-P06,08NMAU-E4**

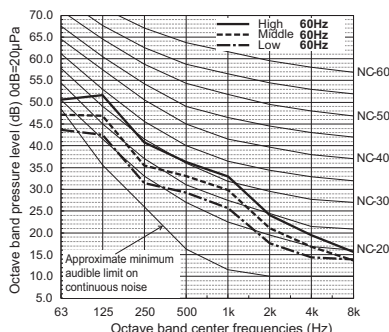
External Static Pressure: 100Pa [0.40in.WG]

Power Source: 208-230V(60Hz)

**PEFY-P06,08NMAU-E4**

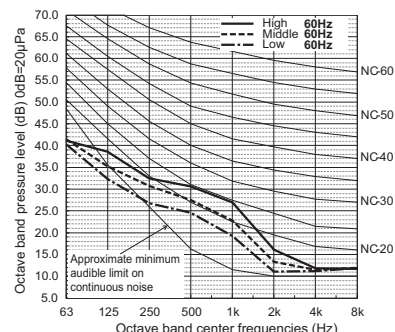
External Static Pressure: 150Pa [0.60in.WG]

Power Source: 208-230V(60Hz)

**PEFY-P12NMAU-E4**

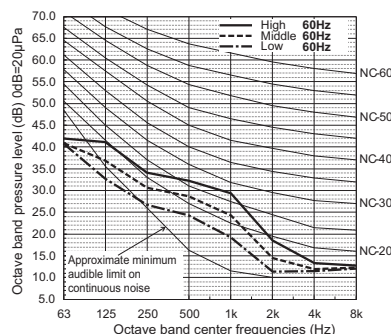
External Static Pressure: 35Pa [0.14in.WG]

Power Source: 208-230V(60Hz)

**PEFY-P12NMAU-E4**

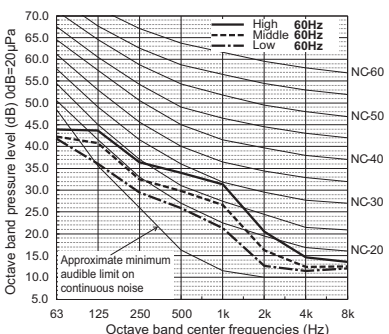
External Static Pressure: 50Pa [0.20in.WG]

Power Source: 208-230V(60Hz)

**PEFY-P12NMAU-E4**

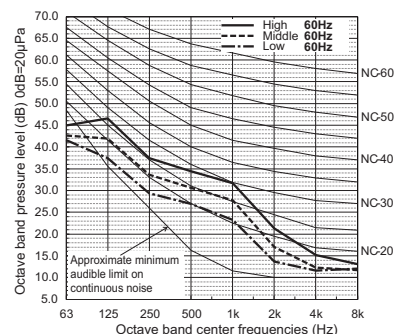
External Static Pressure: 70Pa [0.28in.WG]

Power Source: 208-230V(60Hz)

**PEFY-P12NMAU-E4**

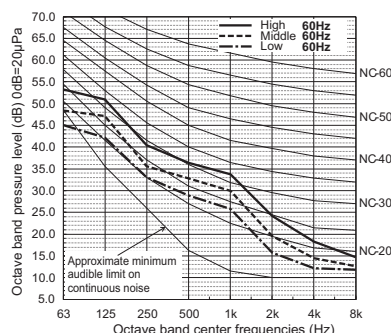
External Static Pressure: 100Pa [0.40in.WG]

Power Source: 208-230V(60Hz)

**PEFY-P12NMAU-E4**

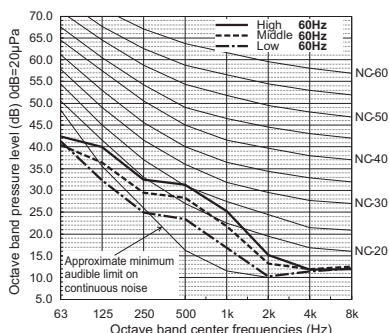
External Static Pressure: 150Pa [0.60in.WG]

Power Source: 208-230V(60Hz)

**PEFY-P15NMAU-E4**

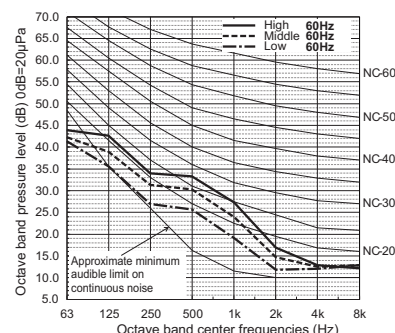
External Static Pressure: 35Pa [0.14in.WG]

Power Source: 208-230V(60Hz)

**PEFY-P15NMAU-E4**

External Static Pressure: 50Pa [0.20in.WG]

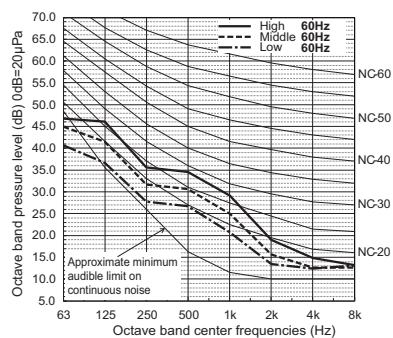
Power Source: 208-230V(60Hz)



PEFY-P15NMAU-E4

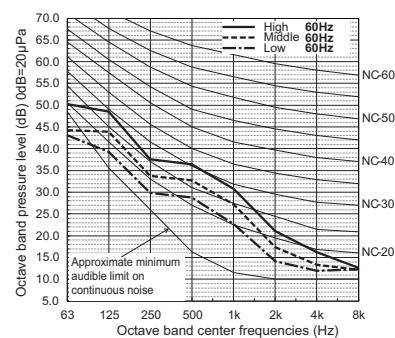
External Static Pressure: 70Pa [0.28in.WG]

Power Source: 208-230V(60Hz)

**PEFY-P15NMAU-E4**

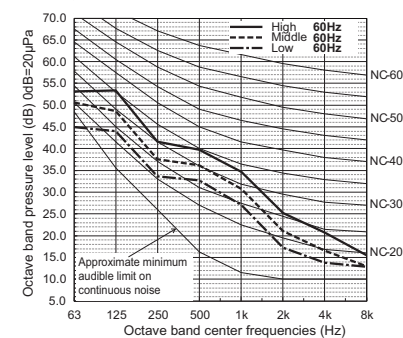
External Static Pressure: 100Pa [0.40in.WG]

Power Source: 208-230V(60Hz)

**PEFY-P15NMAU-E4**

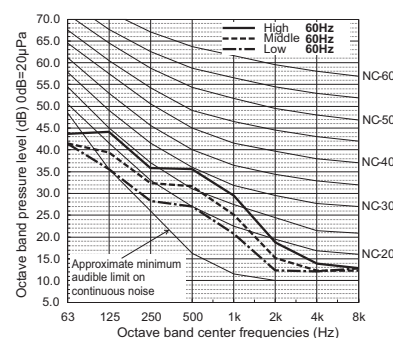
External Static Pressure: 150Pa [0.60in.WG]

Power Source: 208-230V(60Hz)

**PEFY-P18NMAU-E4**

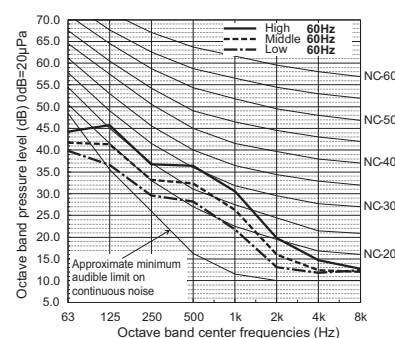
External Static Pressure: 35Pa [0.14in.WG]

Power Source: 208-230V(60Hz)

**PEFY-P18NMAU-E4**

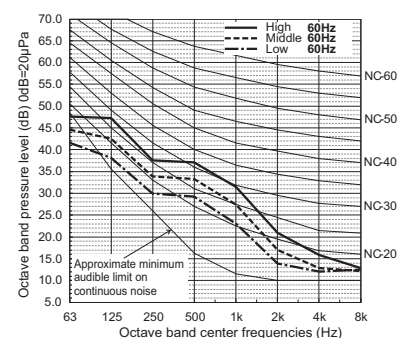
External Static Pressure: 50Pa [0.20in.WG]

Power Source: 208-230V(60Hz)

**PEFY-P18NMAU-E4**

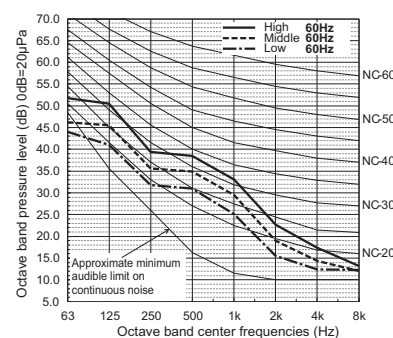
External Static Pressure: 70Pa [0.28in.WG]

Power Source: 208-230V(60Hz)

**PEFY-P18NMAU-E4**

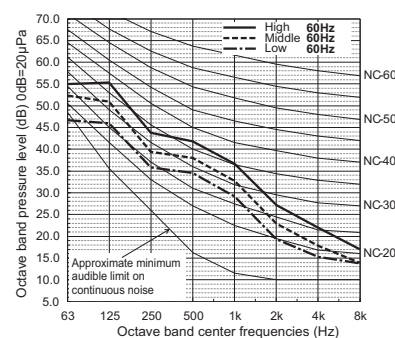
External Static Pressure: 100Pa [0.40in.WG]

Power Source: 208-230V(60Hz)

**PEFY-P18NMAU-E4**

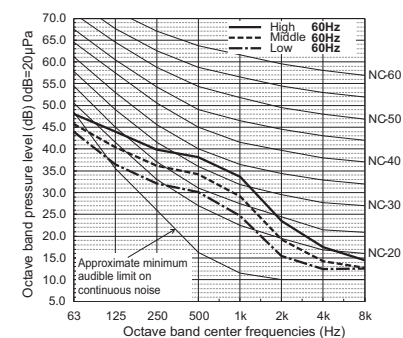
External Static Pressure: 150Pa [0.60in.WG]

Power Source: 208-230V(60Hz)

**PEFY-P24,27,30NMAU-E4**

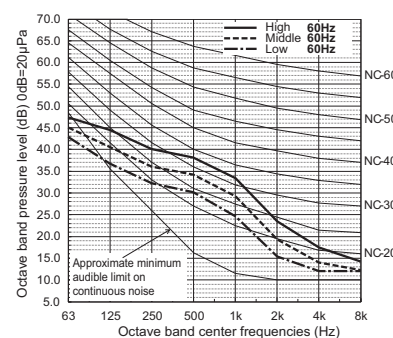
External Static Pressure: 35Pa [0.14in.WG]

Power Source: 208-230V(60Hz)

**PEFY-P24,27,30NMAU-E4**

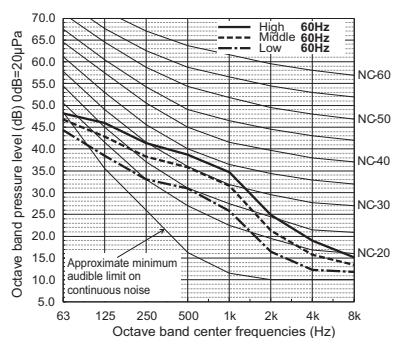
External Static Pressure: 50Pa [0.20in.WG]

Power Source: 208-230V(60Hz)

**PEFY-P24,27,30NMAU-E4**

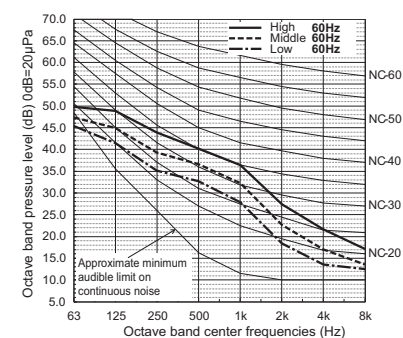
External Static Pressure: 70Pa [0.28in.WG]

Power Source: 208-230V(60Hz)

**PEFY-P24,27,30NMAU-E4**

External Static Pressure: 100Pa [0.40in.WG]

Power Source: 208-230V(60Hz)



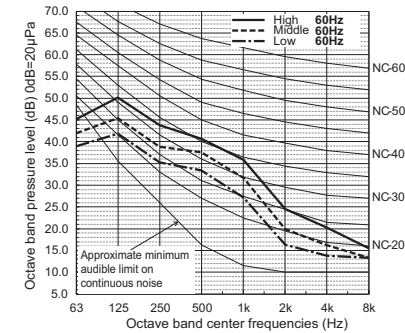
Ceiling concealed (Medium static pressure type)

Figure 1 is a line graph showing the relationship between octave band pressure level (dB) and octave band center frequencies (Hz) for three noise levels: High 60Hz, Middle 60Hz, and Low 60Hz. The y-axis represents the octave band pressure level in dB, ranging from 10.0 to 70.0. The x-axis represents the octave band center frequencies in Hz, ranging from 63 to 8k. A dashed line indicates the approximate minimum audible limit on continuous noise. The noise levels are labeled on the right side of the graph: NC-60, NC-50, NC-40, NC-30, and NC-20.

Octave band center frequency (Hz)	High 60Hz (dB)	Middle 60Hz (dB)	Low 60Hz (dB)
63	45	40	35
125	48	42	38
250	42	38	32
500	38	34	28
1k	35	30	25
2k	25	20	15
4k	18	15	12
8k	15	12	10

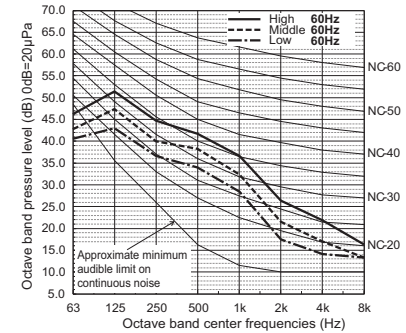
PEFY-P54NMAU-E4

External Static Pressure: 50Pa [0.20in.WG]
Power Source: 208-230V(60Hz)



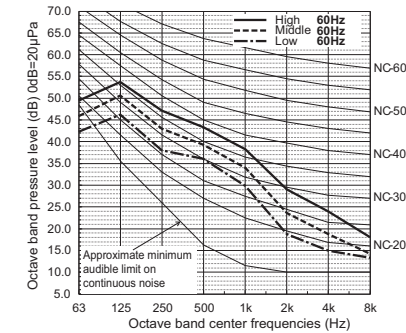
PEFY-P54NMAU-E4

External Static Pressure: 70Pa [0.28in.WG]
Power Source: 208-230V(60Hz)



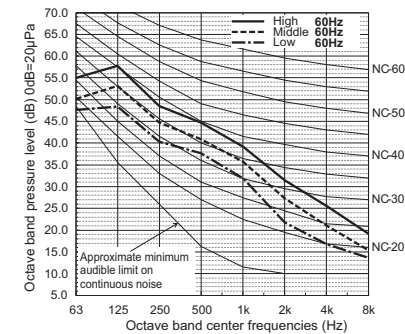
PEFY-P54NMAU-E4

External Static Pressure: 100Pa [0.40in.WG]
Power Source: 208-230V(60Hz)



PEFY-P54NMAU-E4

External Static Pressure: 150Pa [0.60in.WG]
Power Source: 208-230V(60Hz)



6. FAN CHARACTERISTICS CURVES

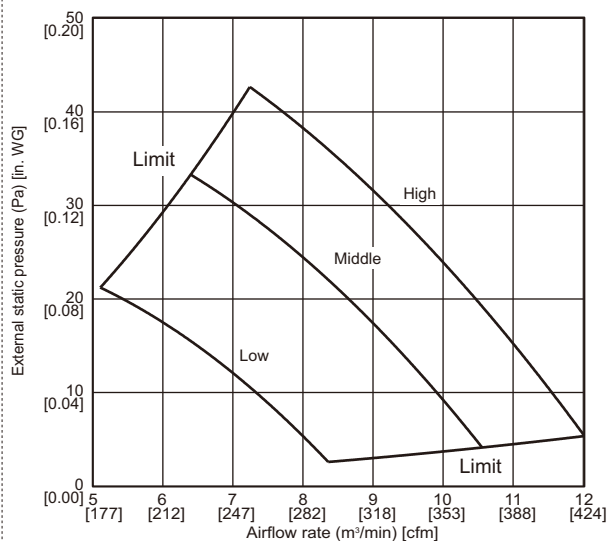
Ceiling concealed (Medium static pressure type)

PEFY-P-NMAU-E4

PEFY-P06,08NMAU-E4

External static pressure : 35Pa [0.14in.WG]

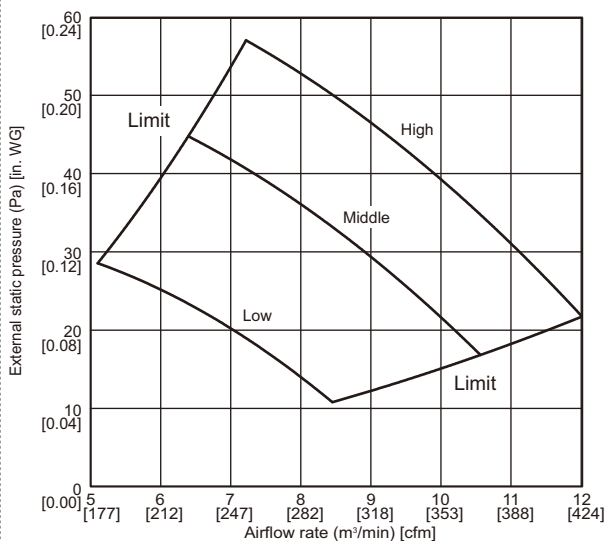
Power source : 208-230V



PEFY-P06,08NMAU-E4

External static pressure : 50Pa [0.20in.WG]

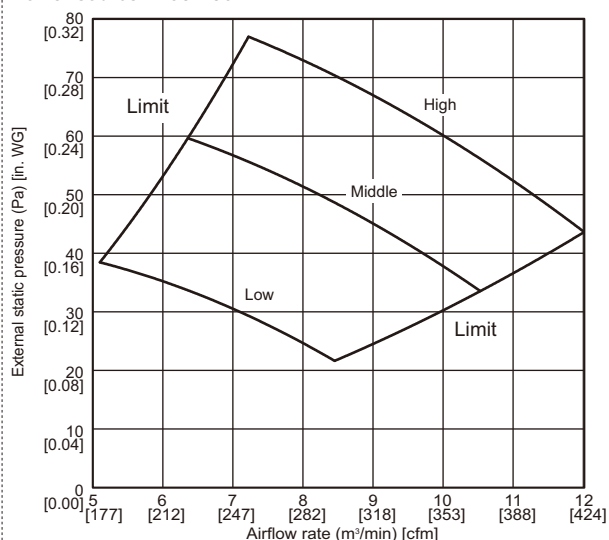
Power source : 208-230V



PEFY-P06,08NMAU-E4

External static pressure : 70Pa [0.28in.WG]

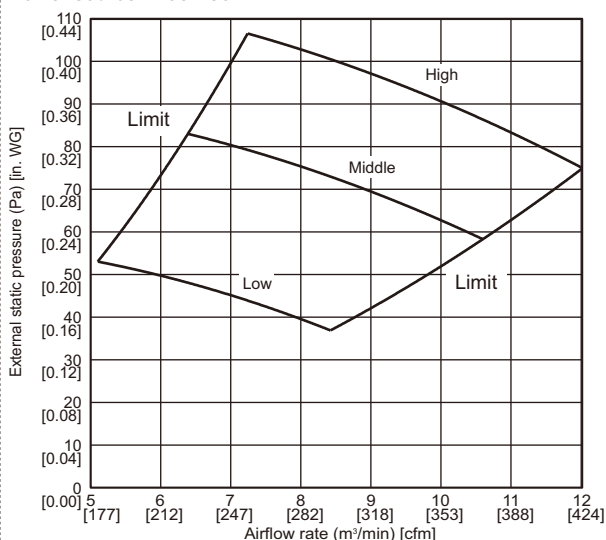
Power source : 208-230V



PEFY-P06,08NMAU-E4

External static pressure : 100Pa [0.40in.WG]

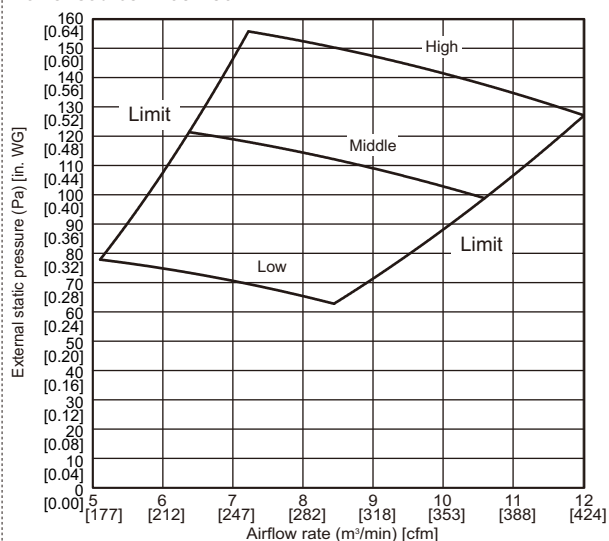
Power source : 208-230V



PEFY-P06,08NMAU-E4

External static pressure : 150Pa [0.60in.WG]

Power source : 208-230V



6. FAN CHARACTERISTICS CURVES

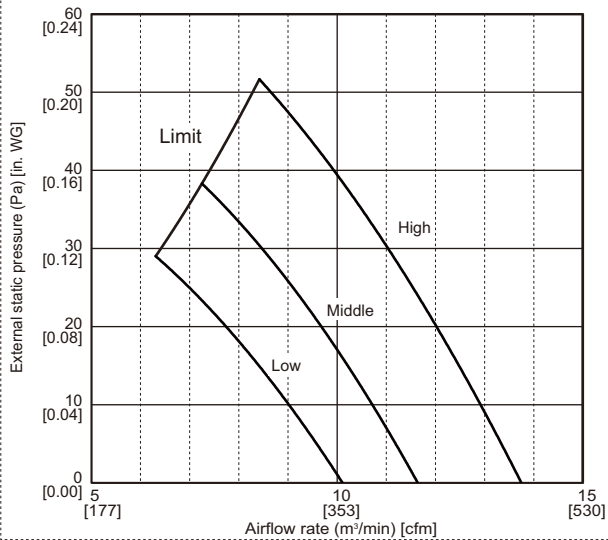
Ceiling concealed (Medium static pressure type)

PEFY-P-NMAU-E4

PEFY-P12NMAU-E4

External static pressure : 35Pa [0.14in.WG]

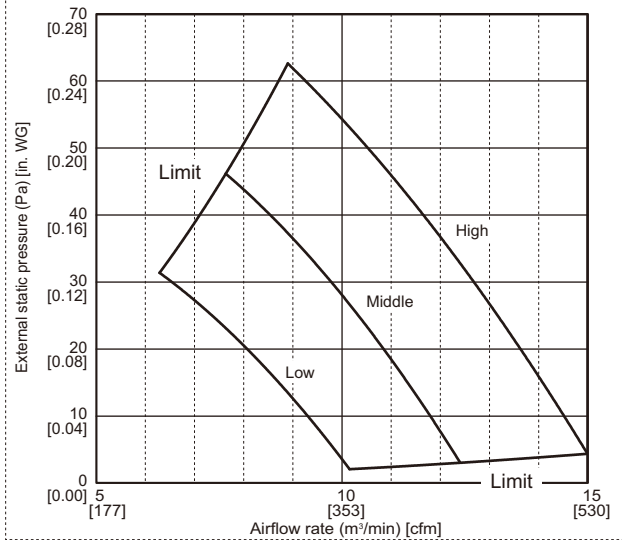
Power source : 208-230V



PEFY-P12NMAU-E4

External static pressure : 50Pa [0.20in.WG]

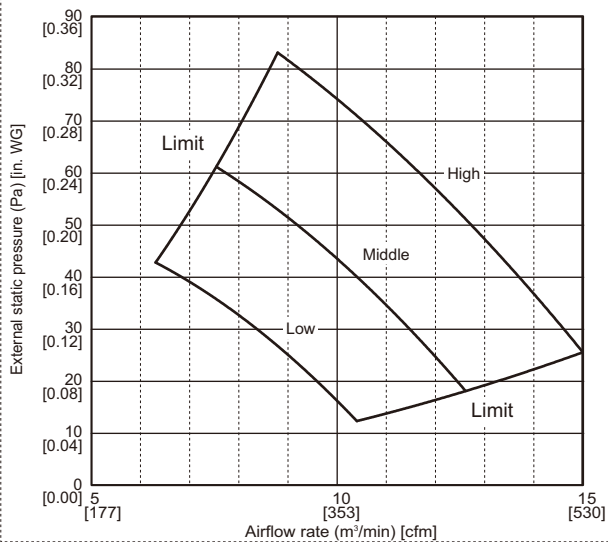
Power source : 208-230V



PEFY-P12NMAU-E4

External static pressure : 70Pa [0.28in.WG]

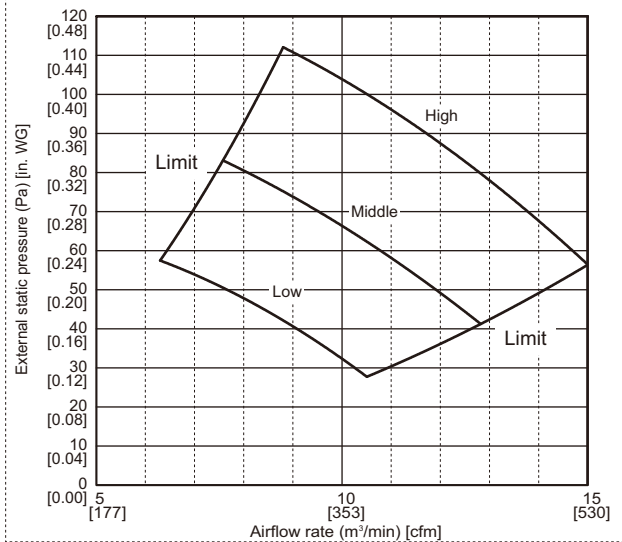
Power source : 208-230V



PEFY-P12NMAU-E4

External static pressure : 100Pa [0.40in.WG]

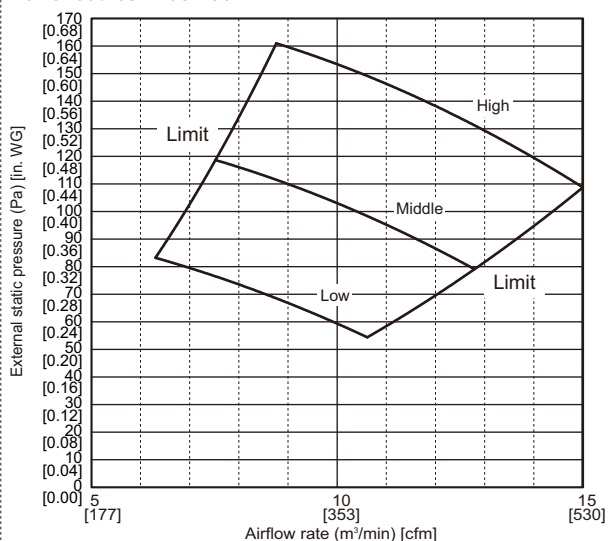
Power source : 208-230V



PEFY-P12NMAU-E4

External static pressure : 150Pa [0.60in.WG]

Power source : 208-230V



6. FAN CHARACTERISTICS CURVES

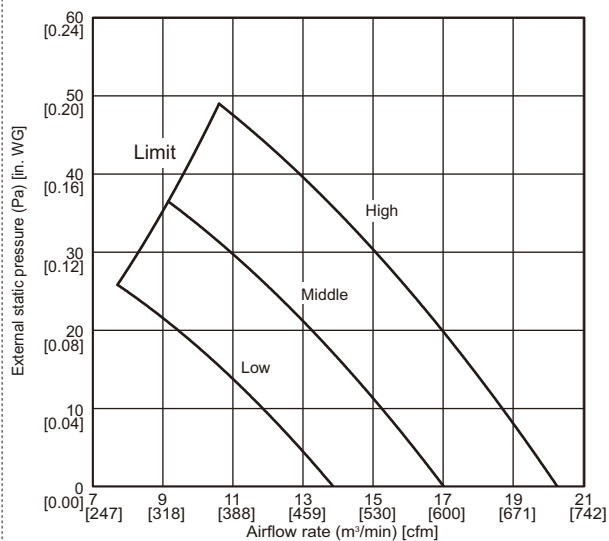
Ceiling concealed (Medium static pressure type)

PEFY-P-NMAU-E4

PEFY-P15NMAU-E4

External static pressure : 35Pa [0.14in.WG]

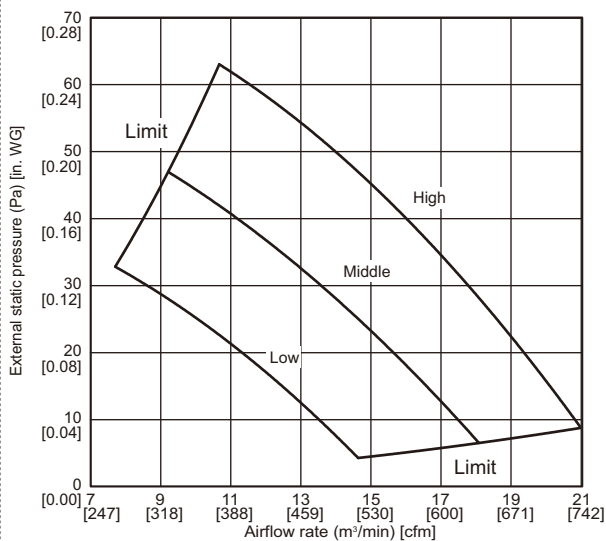
Power source : 208-230V



PEFY-P15NMAU-E4

External static pressure : 50Pa [0.20in.WG]

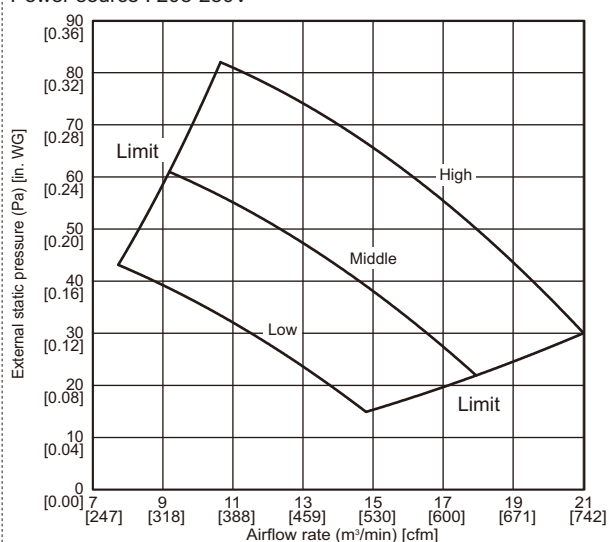
Power source : 208-230V



PEFY-P15NMAU-E4

External static pressure : 70Pa [0.28in.WG]

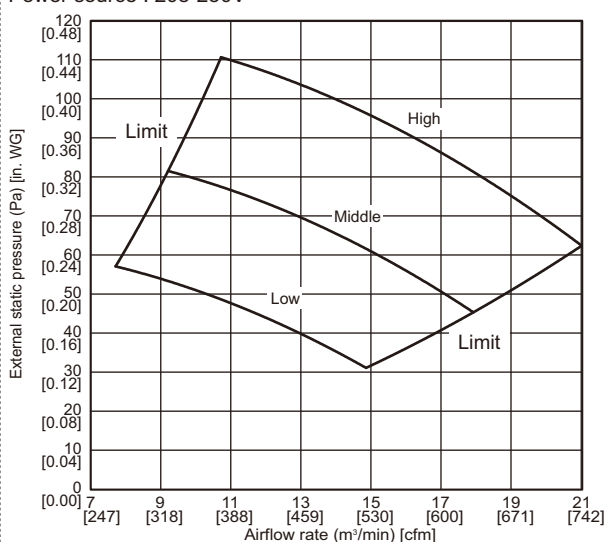
Power source : 208-230V



PEFY-P15NMAU-E4

External static pressure : 100Pa [0.40in.WG]

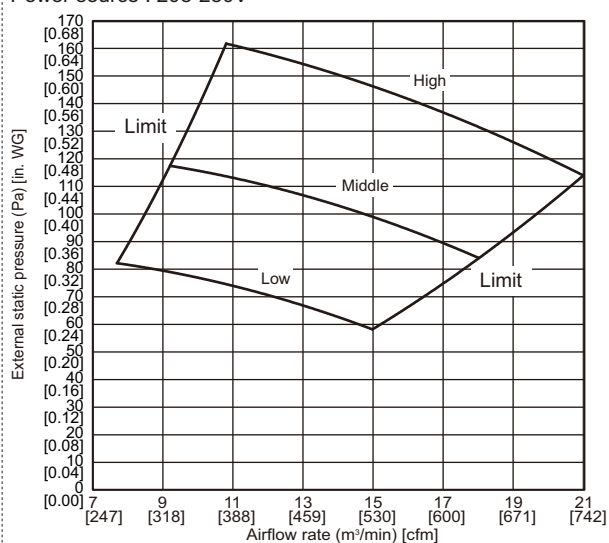
Power source : 208-230V



PEFY-P15NMAU-E4

External static pressure : 150Pa [0.60in.WG]

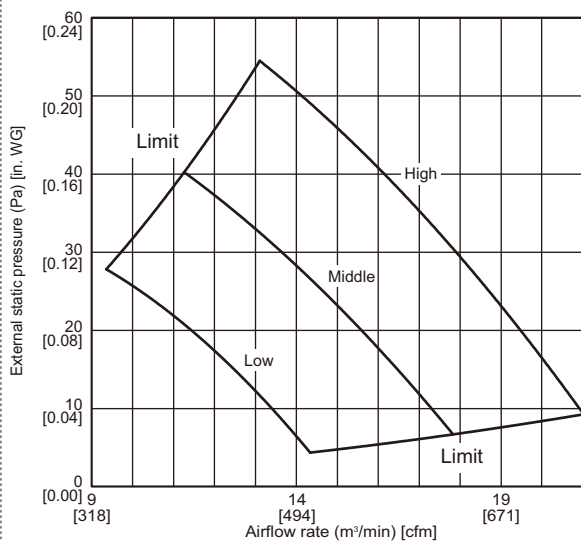
Power source : 208-230V



PEFY-P18NMAU-E4

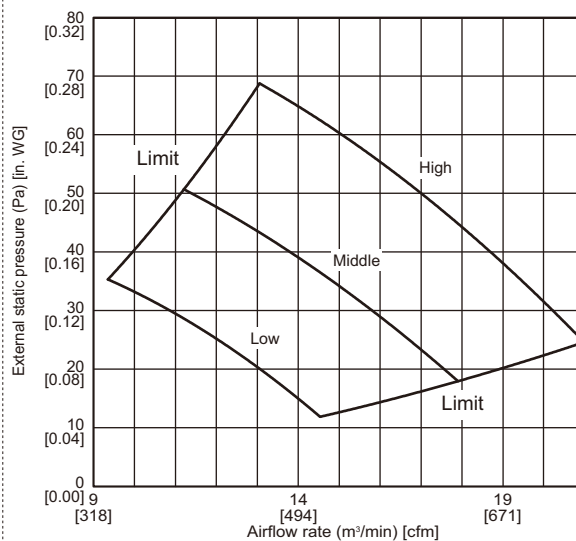
External static pressure : 35Pa [0.14in.WG]

Power source : 208-230V

**PEFY-P18NMAU-E4**

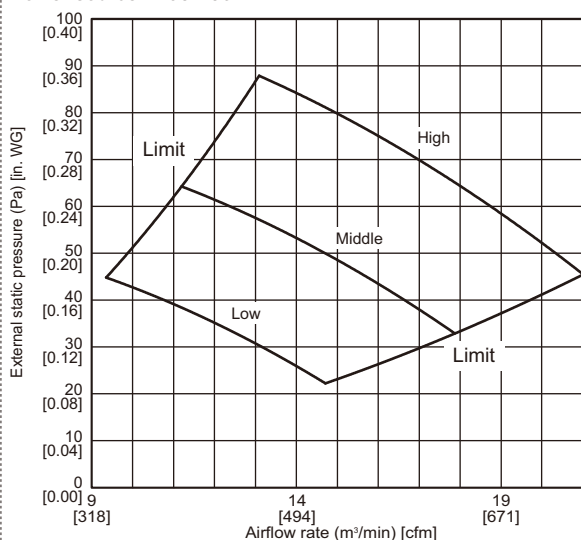
External static pressure : 50Pa [0.20in.WG]

Power source : 208-230V

**PEFY-P18NMAU-E4**

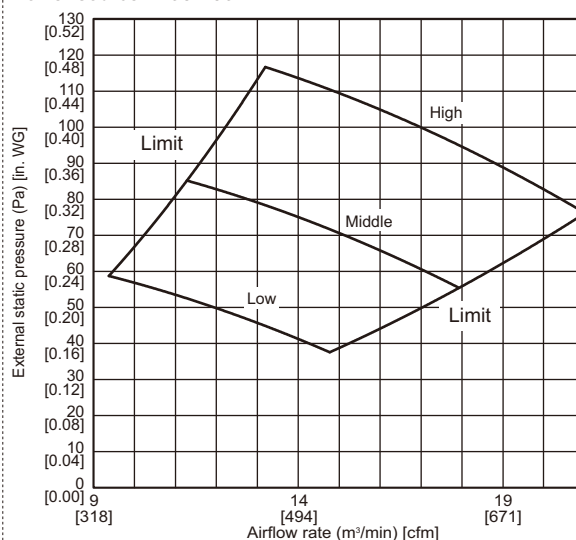
External static pressure : 70Pa [0.28in.WG]

Power source : 208-230V

**PEFY-P18NMAU-E4**

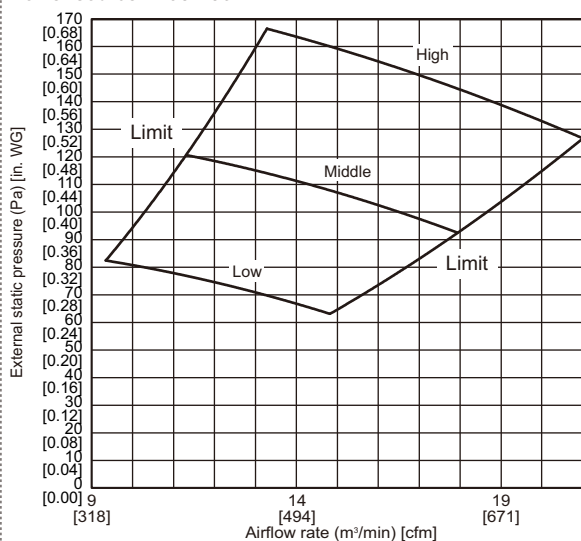
External static pressure : 100Pa [0.40in.WG]

Power source : 208-230V

**PEFY-P18NMAU-E4**

External static pressure : 150Pa [0.60in.WG]

Power source : 208-230V



6. FAN CHARACTERISTICS CURVES

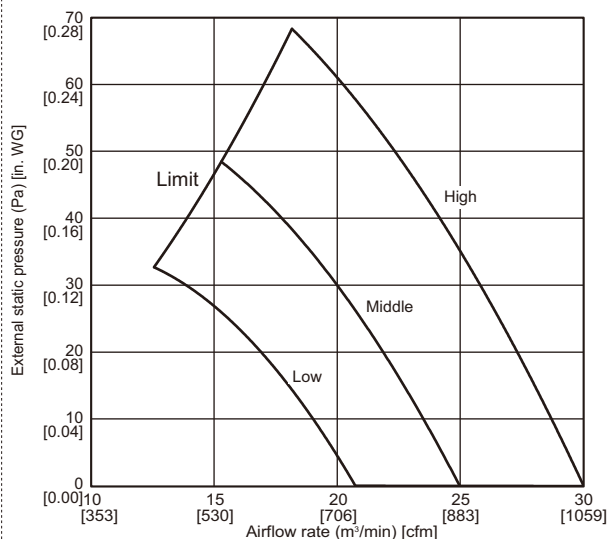
Ceiling concealed (Medium static pressure type)

PEFY-P-NMAU-E4

PEFY-P24,27,30NMAU-E4

External static pressure : 35Pa [0.14in.WG]

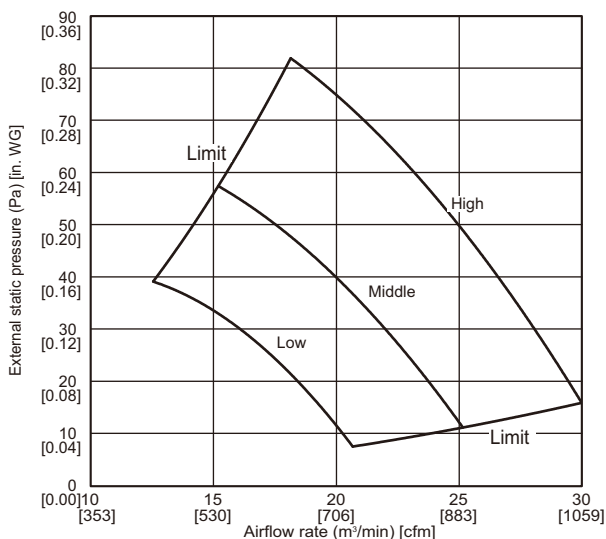
Power source : 208-230V



PEFY-P24,27,30NMAU-E4

External static pressure : 50Pa [0.20in.WG]

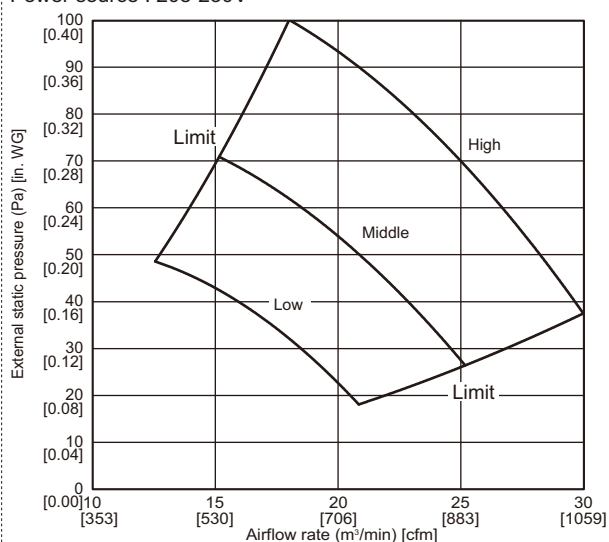
Power source : 208-230V



PEFY-P24,27,30NMAU-E4

External static pressure : 70Pa [0.28in.WG]

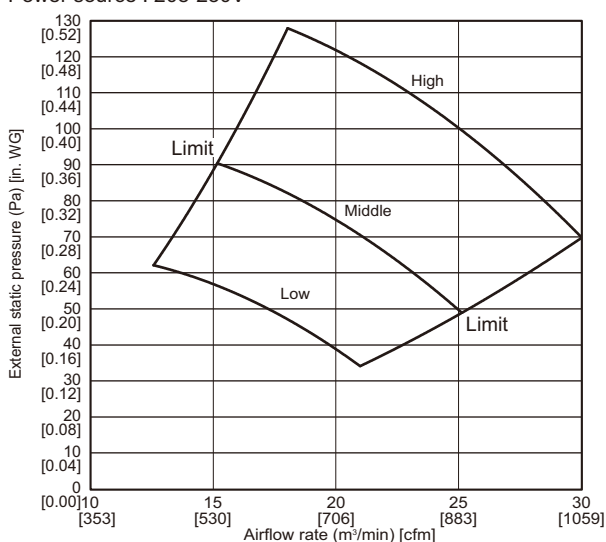
Power source : 208-230V



PEFY-P24,27,30NMAU-E4

External static pressure : 100Pa [0.40in.WG]

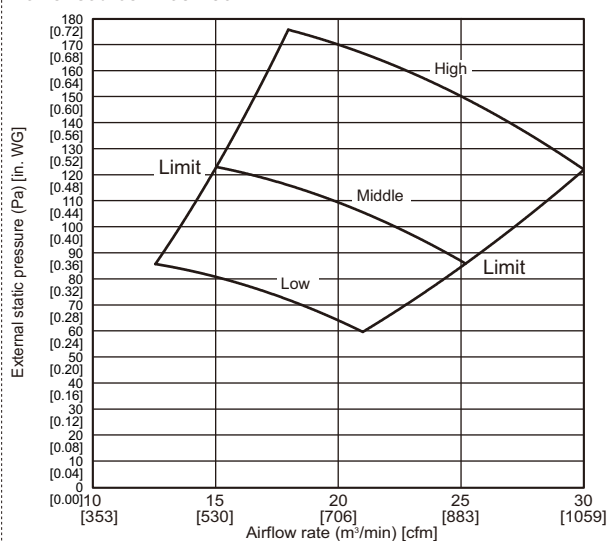
Power source : 208-230V



PEFY-P24,27,30NMAU-E4

External static pressure : 150Pa [0.60in.WG]

Power source : 208-230V



6. FAN CHARACTERISTICS CURVES

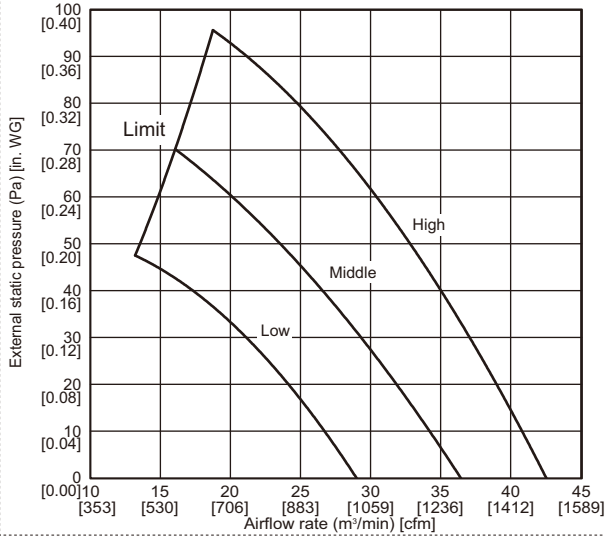
Ceiling concealed (Medium static pressure type)

PEFY-P-NMAU-E4

PEFY-P36NMAU-E4

External static pressure : 35Pa [0.14in.WG]

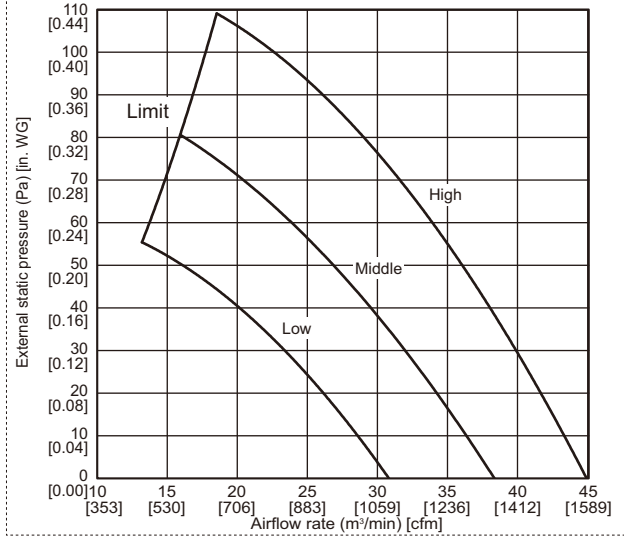
Power source : 208-230V



PEFY-P36NMAU-E4

External static pressure : 50Pa [0.20in.WG]

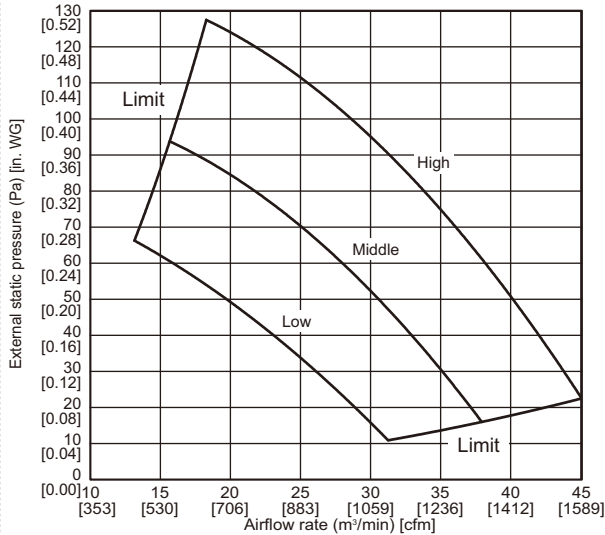
Power source : 208-230V



PEFY-P36NMAU-E4

External static pressure : 70Pa [0.28in.WG]

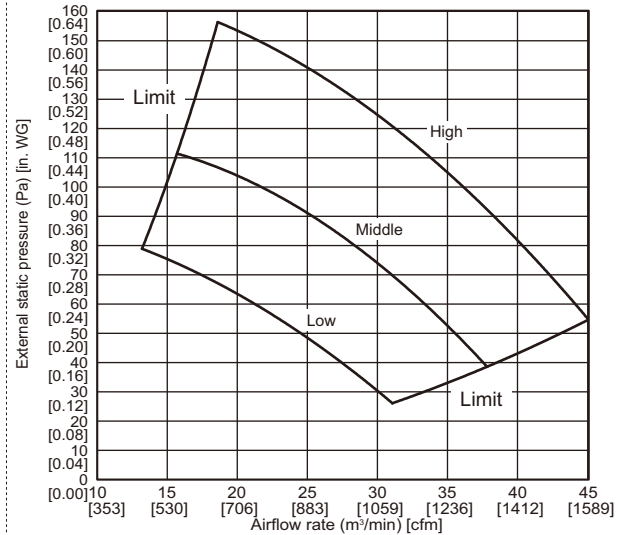
Power source : 208-230V



PEFY-P36NMAU-E4

External static pressure : 100Pa [0.40in.WG]

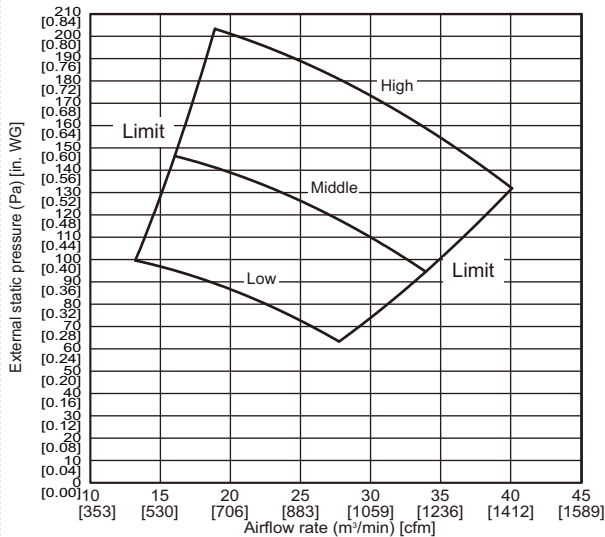
Power source : 208-230V



PEFY-P36NMAU-E4

External static pressure : 150Pa [0.60in.WG]

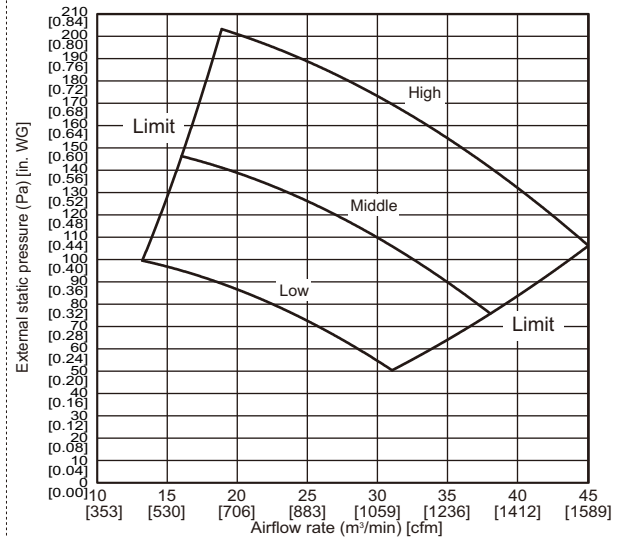
Power source : 208V



PEFY-P36NMAU-E4

External static pressure : 150Pa [0.60in.WG]

Power source : 230V



6. FAN CHARACTERISTICS CURVES

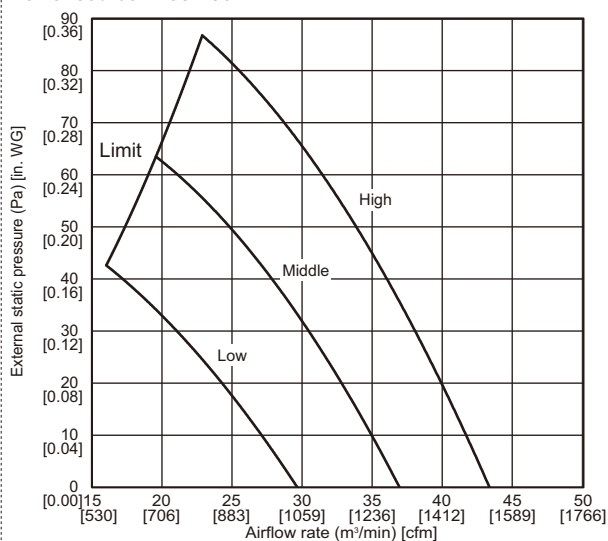
Ceiling concealed (Medium static pressure type)

PEFY-P-NMAU-E4

PEFY-P48NMAU-E4

External static pressure : 35Pa [0.14in.WG]

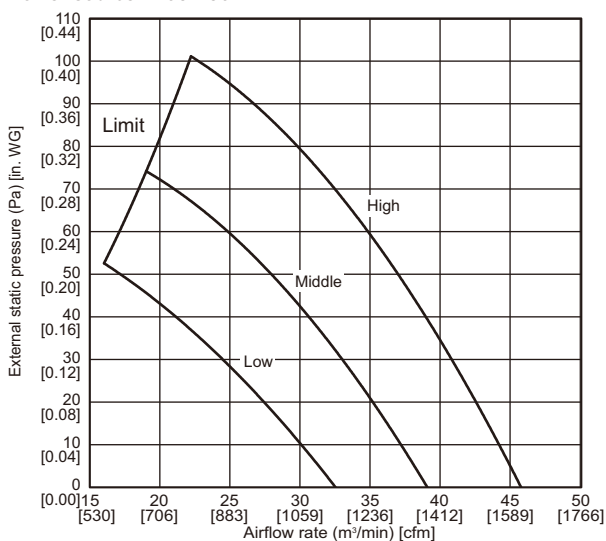
Power source : 208-230V



PEFY-P48NMAU-E4

External static pressure : 50Pa [0.20in.WG]

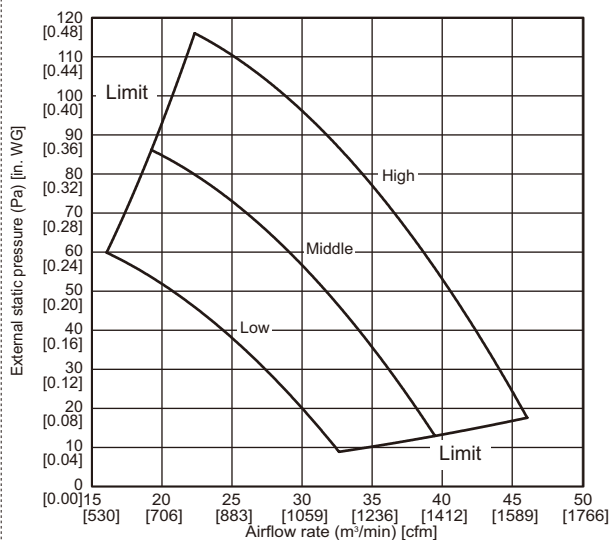
Power source : 208-230V



PEFY-P48NMAU-E4

External static pressure : 70Pa [0.28in.WG]

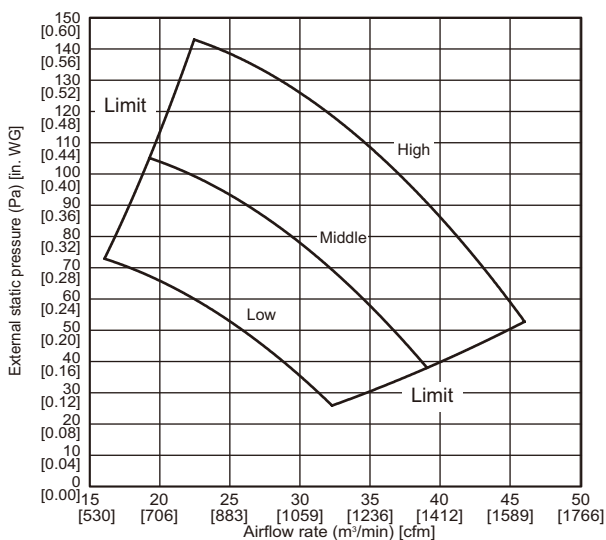
Power source : 208-230V



PEFY-P48NMAU-E4

External static pressure : 100Pa [0.40in.WG]

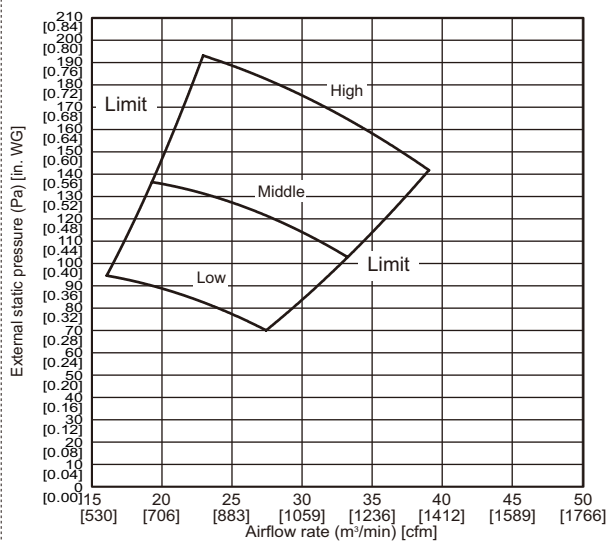
Power source : 208-230V



PEFY-P48NMAU-E4

External static pressure : 150Pa [0.60in.WG]

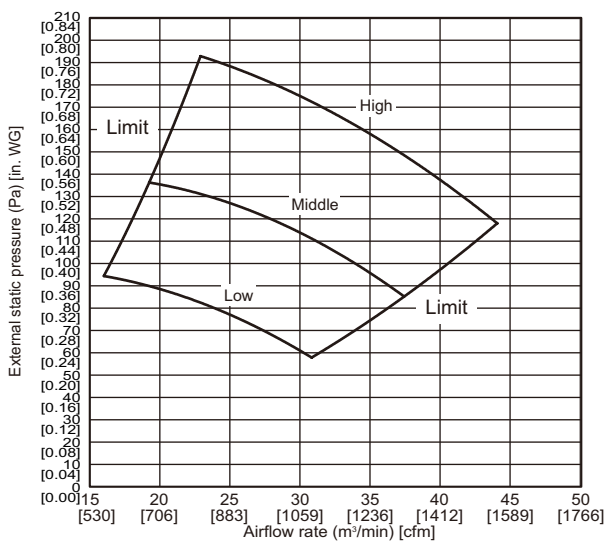
Power source : 208V



PEFY-P48NMAU-E4

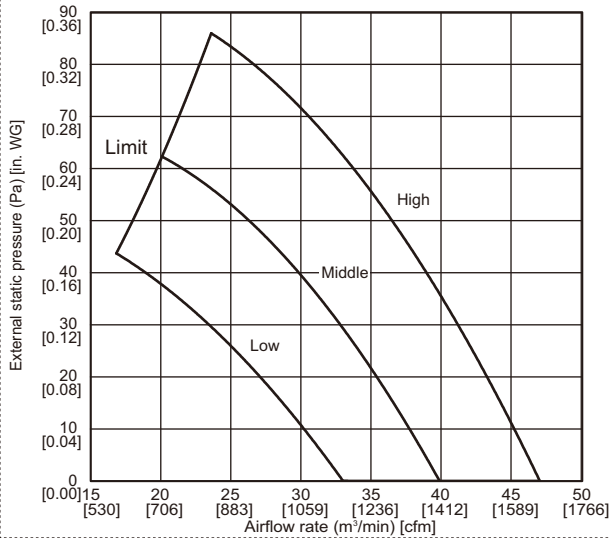
External static pressure : 150Pa [0.60in.WG]

Power source : 230V



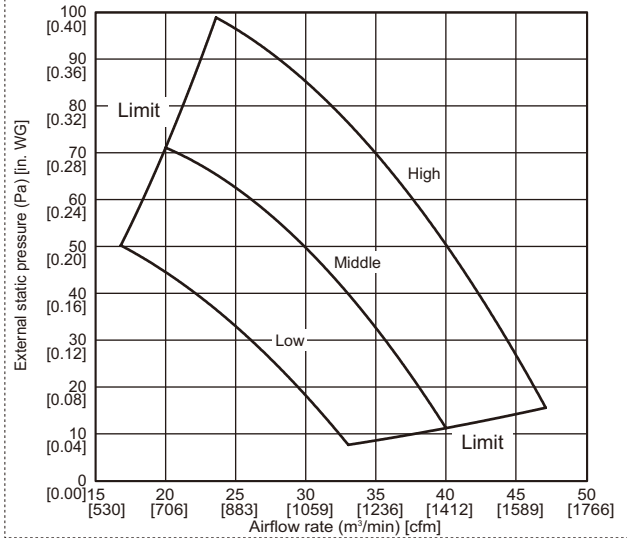
PEFY-P54NMAU-E4

External static pressure : 35Pa [0.14in.WG]
Power source : 208-230V



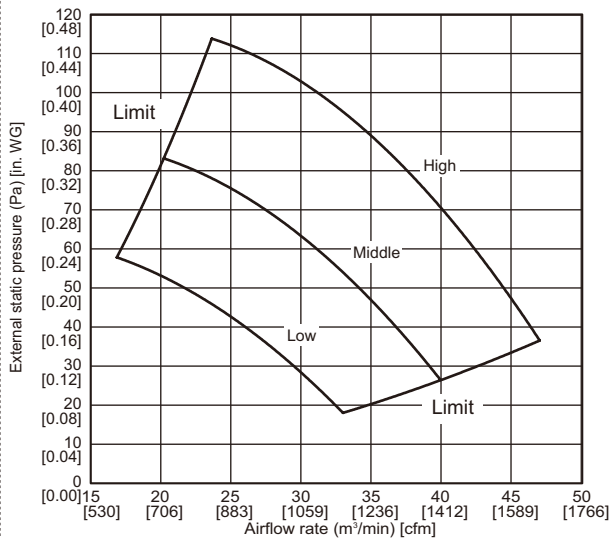
PEFY-P54NMAU-E4

External static pressure : 50Pa [0.20in.WG]
Power source : 208-230V



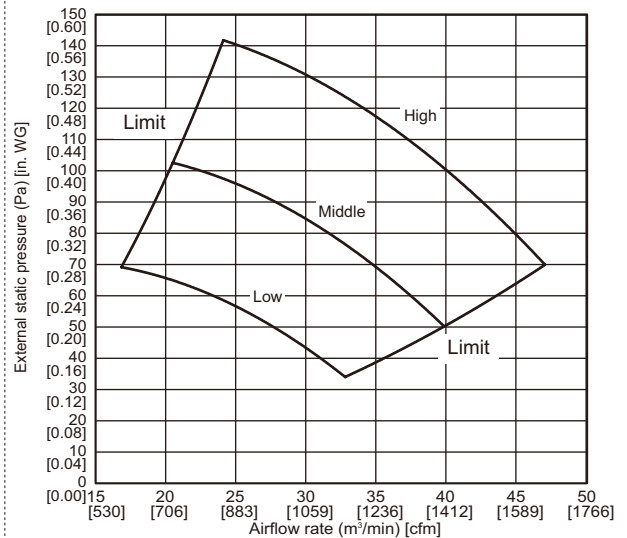
PEFY-P54NMAU-E4

External static pressure : 70Pa [0.28in.WG]
Power source : 208-230V



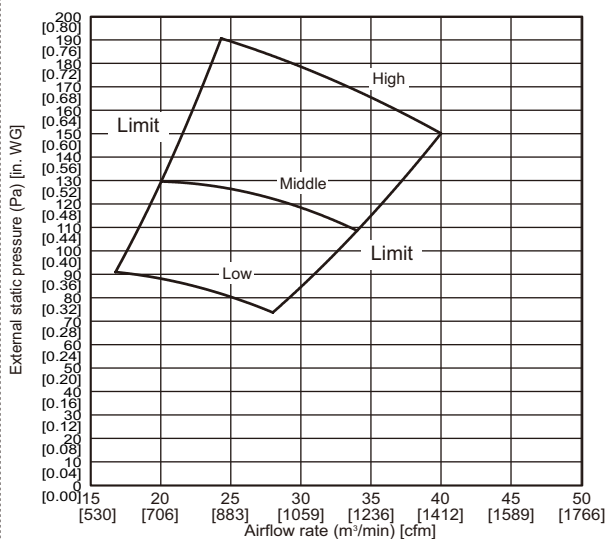
PEFY-P54NMAU-E4

External static pressure : 100Pa [0.40in.WG]
Power source : 208-230V



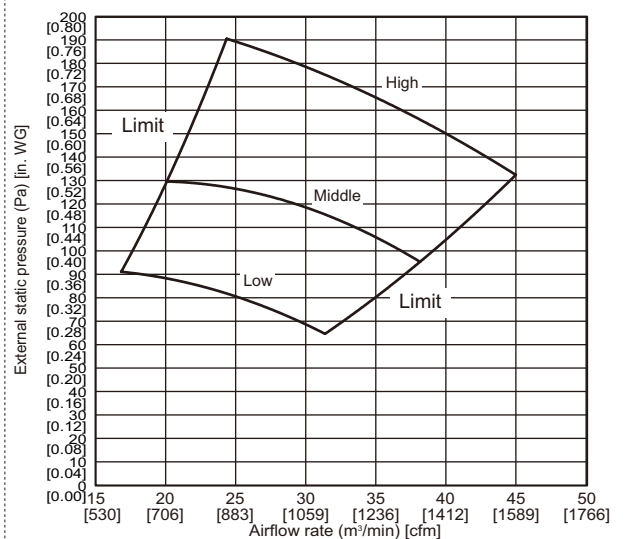
PEFY-P54NMAU-E4

External static pressure : 150Pa [0.60in.WG]
Power source : 208V

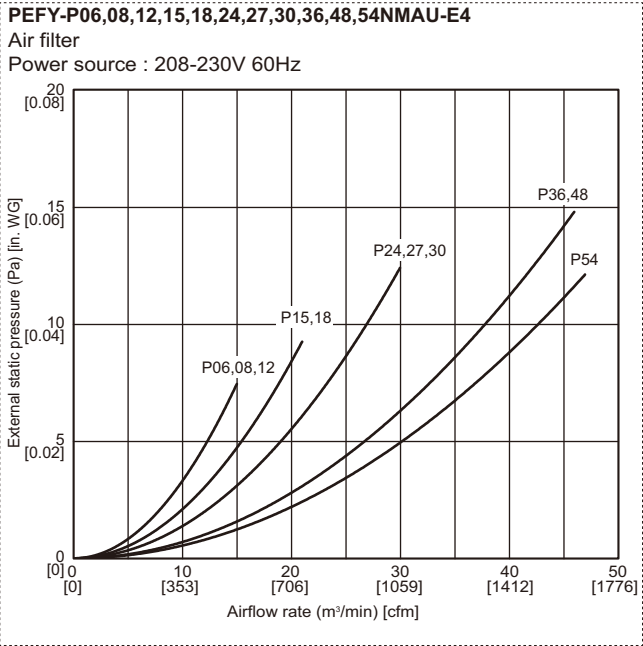


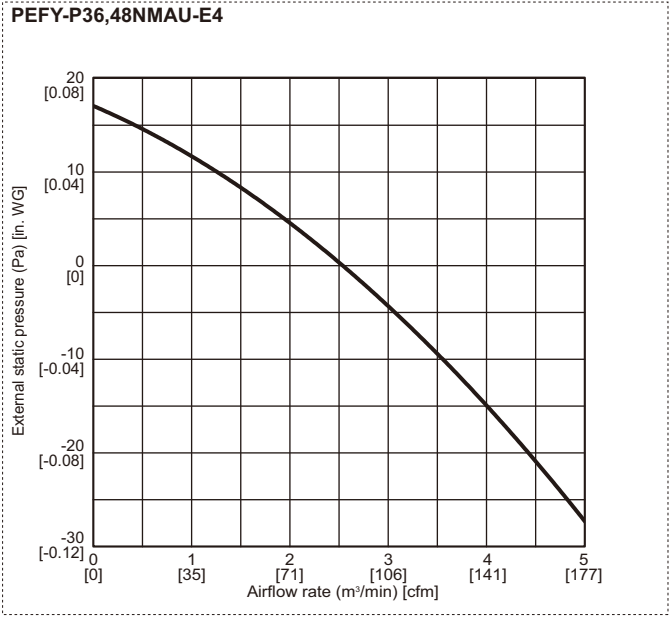
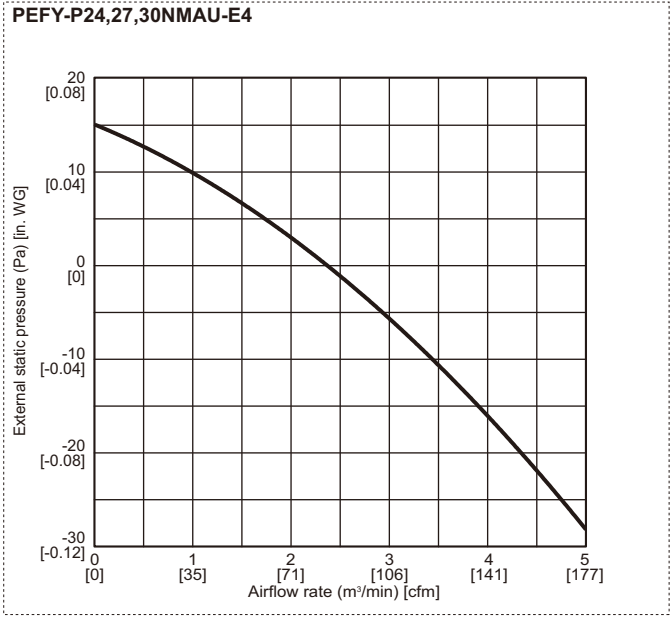
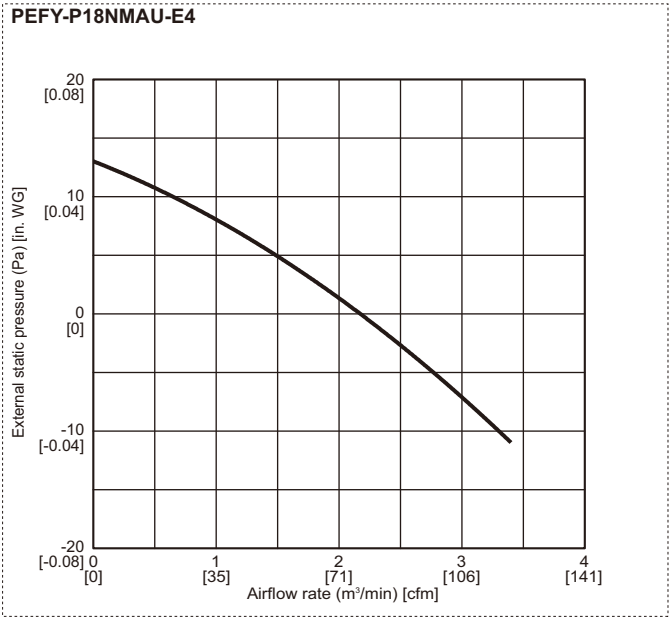
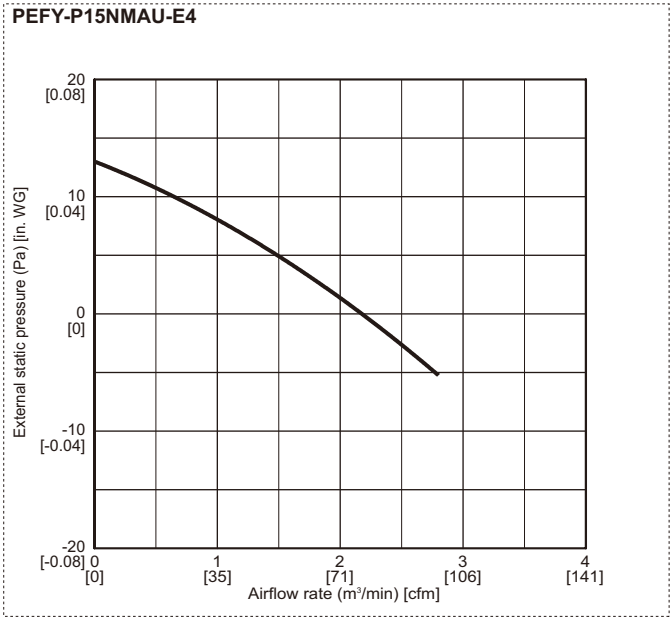
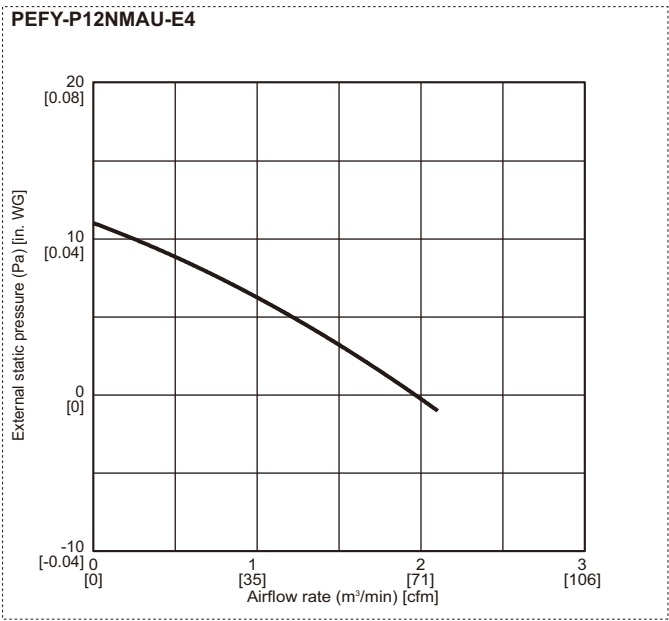
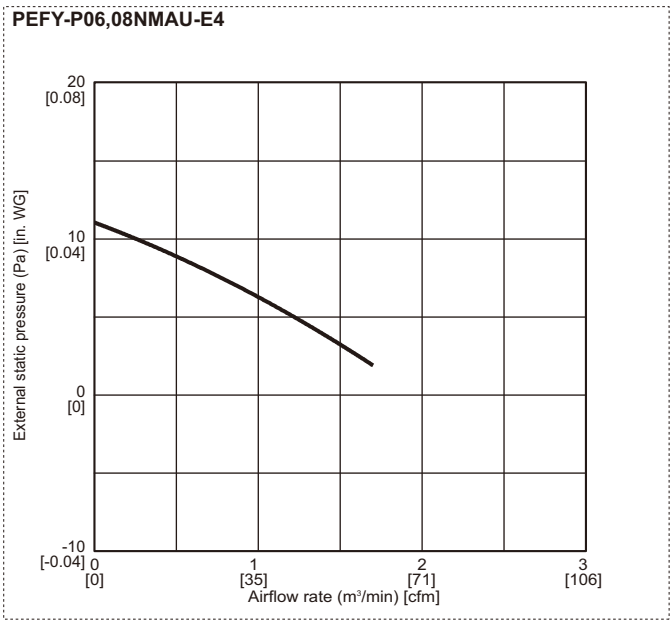
PEFY-P54NMAU-E4

External static pressure : 150Pa [0.60in.WG]
Power source : 230V

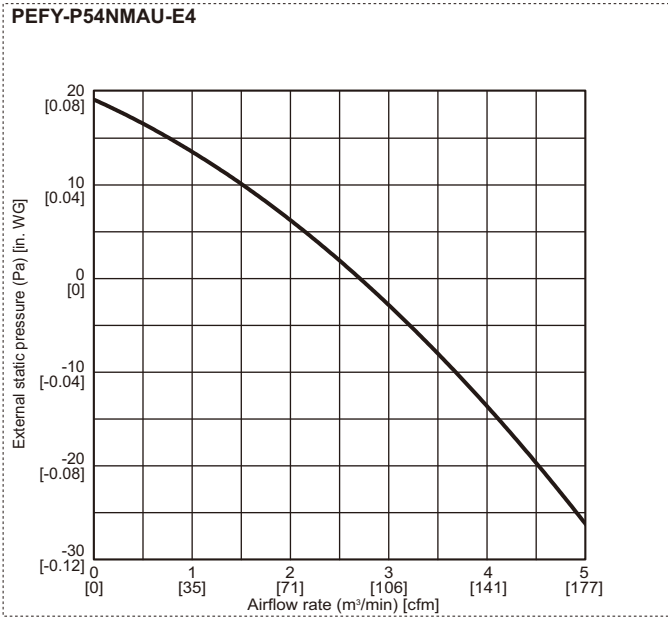


Air filter static pressure cuves





PEFY-P-NMAU-E4



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

Model	Indoor Unit				IFM	
	Hz	Volts	Voltage range	MCA(A)	Output(kW)	FLA(A)
PEFY-P06NMAU-E4	60Hz	208 / 230V	188 to 253V	1.75	0.085	1.40
PEFY-P08NMAU-E4				1.75	0.085	1.40
PEFY-P12NMAU-E4				2.13	0.085	1.70
PEFY-P15NMAU-E4				2.88	0.121	2.30
PEFY-P18NMAU-E4				2.94	0.121	2.35
PEFY-P24NMAU-E4				2.88	0.121	2.30
PEFY-P27NMAU-E4				2.88	0.121	2.30
PEFY-P30NMAU-E4				2.88	0.121	2.30
PEFY-P36NMAU-E4				4.25	0.300	3.40
PEFY-P48NMAU-E4				4.38	0.300	3.50
PEFY-P54NMAU-E4				4.38	0.300	3.50

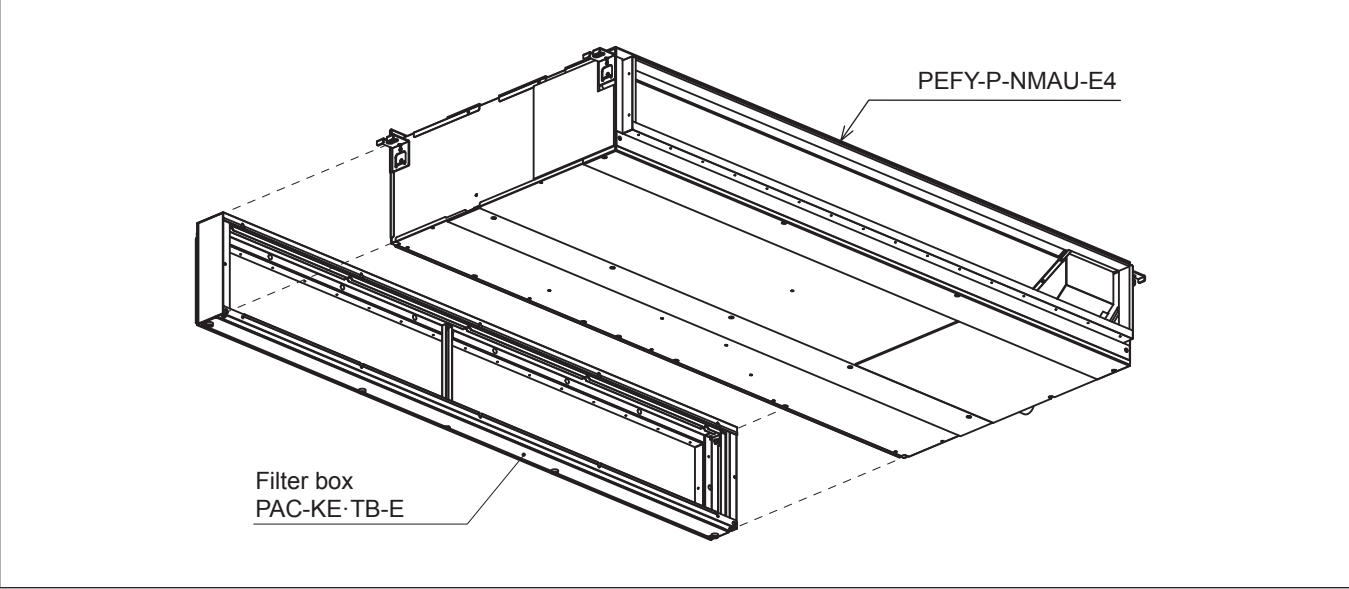
PEFY-P-NMAU-E4

PEFY-P-NMAU-E4

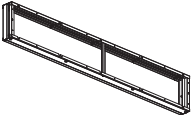
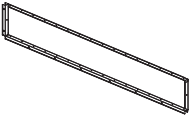
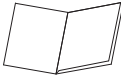
9-1. Optional parts line up for the Indoor unit

	Filter box	External heater adapter
PEFY-P06, 08, 12NMAU-E4	PAC-KE91TB-E	PAC-YU25HT
PEFY-P15, 18NMAU-E4	PAC-KE92TB-E	PAC-YU25HT
PEFY-P24, 27, 30NMAU-E4	PAC-KE93TB-E	PAC-YU25HT
PEFY-P36,48NMAU-E4	PAC-KE94TB-E	PAC-YU25HT
PEFY-P54NMAU-E4	PAC-KE95TB-E	PAC-YU25HT

● PEFY-P-NMAU-E4



9-2. Filter box

PAC-KE-TB-E					
Item	1 Screw	2 Filter box	3 FLANGE	4 Installation manual	
Quantity	30	1	1	1	
Shape					

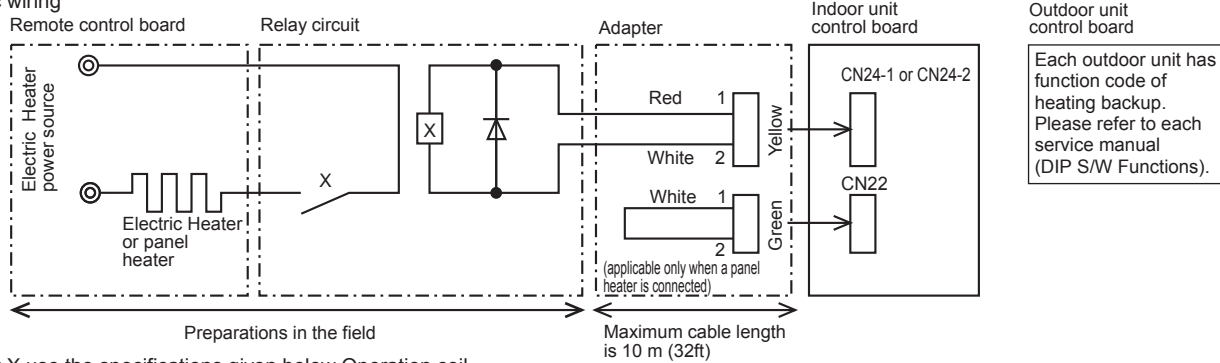
Detailed installation information should be referred to its Installation Manual.

9-3. External heater adapter

External heater adapter PAC-YU25HT is a set of special wiring parts for controlling the electric heater* with the air conditioner system.
*The electric heater should be designed and prepared at the site.

A basic connection method is shown as follows:(For details, refer to its Installation Manual.)

(1) Basic wiring



For relay X use the specifications given below Operation coil

Rated voltage : 12VDC

Power consumption : 1W or less

* Use the diode that is recommended by the relay manufacturer at both ends of the relay coil.

The length of the electrical wiring for the PAC-YU25HT is 2 meters (6-1/2 ft).

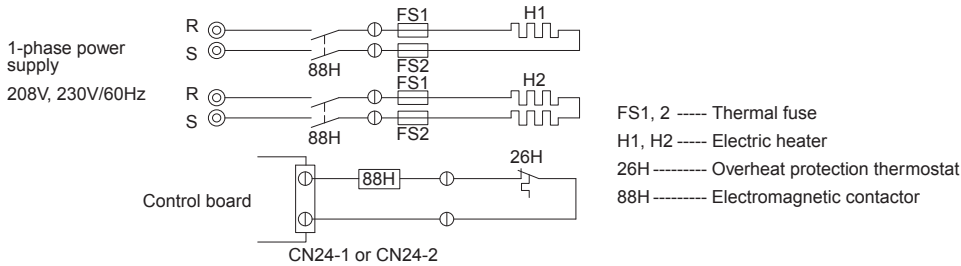
To extend this length, use sheathed 2-core cable.

Control cable type : CVV, CVS, CPEV or equivalent.

Cable size : 0.5 mm² ~ 1.25 mm² (16 to 22 AWG)

Don't extend the cable more than 10 meters (32ft).

(2) Recommended circuit



Item	① External output cable	② Connector (for use with the panel heater)	
Quantity	2	3	
Shape			

Wiring details and Installation details should be referred to its Installation Manual.

⚠ 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.

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