

PEFY-P-NMAU-E

1. SPECIFICATIONS	1 - 32
2. EXTERNAL DIMENSIONS	1 - 35
3. CENTER OF GRAVITY	1 - 39
4. ELECTRICAL WIRING DIAGRAMS	1 - 40
5. SOUND LEVELS	1 - 41
5-1. Sound levels	1 - 41
5-2. NC curves	1 - 42
6. FAN CHARACTERISTICS CURVES	1 - 46
7. OA INTAKE-STATIC PRESSURE CURVES	1 - 56
8. OPTIONAL PARTS	1 - 57
8-1. Optional parts line up for the Indoor unit	1 - 57
8-2. Filter box	1 - 57
8-3. External heater adapter	1 - 58

1. SPECIFICATIONS

DATA U6-2

Model			PEFY-P06NMAU-E	PEFY-P08NMAU-E	PEFY-P12NMAU-E	PEFY-P15NMAU-E
Power source			1-phase 208-230V (60Hz)	1-phase 208-230V (60Hz)	1-phase 208-230V (60Hz)	1-phase 208-230V (60Hz)
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	0.06	0.09	0.09
	*2	Current input	A	0.56	0.66	0.67
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	0.04	0.07	0.07
	*2	Current input	A	0.45	0.55	0.56
External finish			Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate
External dimension HxWxD		in.	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 35-7/16 x 28-7/8
		mm	250 x 700 x 732	250 x 700 x 732	250 x 700 x 732	250 x 900 x 732
Net weight		kg(lbs)	23(51)	23(51)	23(51)	26(58)
Heat exchanger			Cross fin(Aluminium fin and copper tube)	Cross fin(Aluminium fin and copper tube)	Cross fin(Aluminium fin and copper tube)	Cross fin(Aluminium fin and copper tube)
FAN	Type x Quantity		Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 1
	*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 blushless motor	DC blushless motor	DC blushless motor	DC blushless motor
	Motor output		kW	0.085	0.085	0.085
	Driving mechanism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
	Air flow rate (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)*2		dB <A>	26 - 28 - 29	26 - 28 - 29	28 - 30 - 34	28 - 30 - 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)	mm(in.)	6.35 (1/4) Brazed	6.35 (1/4) Brazed	6.35 (1/4) Brazed	6.35 (1/4) Brazed
	Gas (R410A)	mm(in.)	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed
Field drain pipe size		mm(in.)	O.D. 32(1-1/4)	O.D. 32(1-1/4)	O.D. 32(1-1/4)	O.D. 32(1-1/4)
Drawing	External		KB94R527	KB94R527	KB94R527	KB94R527
	Wiring		KB94R531	KB94R531	KB94R531	KB94R531
	Refrigerant cycle		-	-	-	-
Standard attachment	Document		Installation Manual,Instruction Book	Installation Manual,Instruction Book	Installation Manual,Instruction Book	Installation Manual,Instruction Book
	Accessory		Insulation pipe for refrigerant pipe,Washer,Drain hose,Tie band	Insulation pipe for refrigerant pipe,Washer,Drain hose,Tie band	Insulation pipe for refrigerant pipe,Washer,Drain hose,Tie band	Insulation pipe for refrigerant pipe,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		kcal = kW x 860
Indoor: 80°FDB / 67°FWB (26.7°CDB / 19.4°CWB), Outdoor: 95°FDB (35°CDB)		BTU/h = kW x 3,412
Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)		cfm = m ³ /min x 35.31
2. The values are measured at the rated external static pressure.		lbs = kg / 0.4536
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)		
4. The rated external static pressure is shown without < >. The factory setting is the rated value.		*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

DATA U6-2

PEFY-NMAU

Model			PEFY-P18NMAU-E	PEFY-P24NMAU-E	PEFY-P27NMAU-E	PEFY-P30NMAU-E
Power source			1-phase 208-230V (60Hz)	1-phase 208-230V (60Hz)	1-phase 208-230V (60Hz)	1-phase 208-230V (60Hz)
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	0.11	0.12	0.14
	*2	Current input	A	0.77	1.04	1.18
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	0.09	0.10	0.12
	*2	Current input	A	0.66	0.93	1.07
External finish			Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate
External dimension HxWxD		in.	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 1100 x 732	250 x 1100 x 732	250 x 1100 x 732
Net weight		kg(lbs)	26(58)	32(71)	32(71)	32(71)
Heat exchanger			Cross fin(Aluminium fin and copper tube)	Cross fin(Aluminium fin and copper tube)	Cross fin(Aluminium fin and copper tube)	Cross fin(Aluminium fin and copper tube)
FAN	Type x Quantity		Sirocco fan x 1	Sirocco fan x 2	Sirocco fan x 2	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>	<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 blushless motor	DC blushless motor	DC blushless motor	DC blushless motor
	Motor output		kW	0.085	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)	cfm	424 - 512 - 600	477 - 565 - 671	512 - 636 - 742	512 - 636 - 742
		m3 / min	12.0 - 14.5 - 17.0	13.5 - 16.0 - 19.0	14.5 - 18.0 - 21.0	14.5 - 18.0 - 21.0
L/s		200 - 242 - 283	225 - 267 - 317	242 - 300 - 350	242 - 300 - 350	
Sound pressure level (measured in anechoic room)*2		dB <A>	28 - 32 - 35	29 - 32 - 36	30 - 34 - 38	30 - 34 - 38
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)	mm(in.)	6.35 (1/4) Brazed	9.52 (3/8) Brazed	9.52 (3/8) Brazed	9.52 (3/8) Brazed
	Gas (R410A)	mm(in.)	12.7 (1/2) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed
Field drain pipe size		mm(in.)	O.D. 32(1-1/4)	O.D. 32(1-1/4)	O.D. 32(1-1/4)	O.D. 32(1-1/4)
Drawing	External		KB94R527	KB94R527	KB94R527	KB94R527
	Wiring		KB94R531	KB94R531	KB94R531	KB94R531
	Refrigerant cycle		-	-	-	-
Standard attachment	Document		Installation Manual,Instruction Book	Installation Manual,Instruction Book	Installation Manual,Instruction Book	Installation Manual,Instruction Book
	Accessory		Insulation pipe for refrigerant pipe,Washer,Drain hose,Tie band	Insulation pipe for refrigerant pipe,Washer,Drain hose,Tie band	Insulation pipe for refrigerant pipe,Washer,Drain hose,Tie band	Insulation pipe for refrigerant pipe,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 :	1.Nominal cooling conditions	Unit converter
	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)	
	2.The values are measured at the rated external static pressure.	
	3.Nominal heating conditions	
	Indoor:70°FDB(21.1°CDB), Outdoor:47°FDB / 43°FWB(8.3°CDB / 6.1°CWB)	kcal =kW x 860
	Pipe length:25 ft. (7.6 m), Level difference:0 ft. (0 m)	BTU/h =kW x 3,412
	4.The rated external static pressure is shown without < > .The factory setting is the rated value.	cfm =m ³ /min x 35.31
		lbs =kg / 0.4536
		*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

DATA U6-2

Model			PEFY-P36NMAU-E	PEFY-P48NMAU-E	PEFY-P54NMAU-E		
Power source			1-phase 208-230V (60Hz)	1-phase 208-230V (60Hz)	1-phase 208-230V (60Hz)		
Cooling capacity (Nominal)	*1	BTU / h	36,000	48,000	54,000		
		kW	10.6	14.1	15.8		
	*2	Power input	kW	0.24	0.34	0.36	
		Current input	A	1.50	2.08	2.24	
Heating capacity (Nominal)	*3	BTU / h	40,000	54,000	60,000		
		kW	11.7	15.8	17.6		
	*2	Power input	kW	0.22	0.32	0.34	
		Current input	A	1.39	1.97	2.13	
	External finish			Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	
External dimension HxWxD		in.	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 1400 x 732	250 x 1400 x 732	250 x 1600 x 732		
Net weight		kg(lbs)	42(93)	42(93)	46(102)		
Heat exchanger			Cross fin(Aluminium fin and copper tube)	Cross fin(Aluminium fin and copper tube)	Cross fin(Aluminium fin and copper tube)		
FAN	Type x Quantity		Sirocco fan x 2	Sirocco fan x 2	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 blushless motor	DC blushless motor	DC blushless motor		
	Motor output		kW	0.244	0.244	0.244	
	Driving mechanism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor		
	Air flow rate (Low-Mid-High)	cfm	812 - 989 - 1165	989 - 1201 - 1412	1042 - 1254 - 1483		
		m3 / min	23.0 - 28.0 - 33.0	28.0 - 34.0 - 40.0	29.5 - 35.5 - 42.0		
		L/s	383 - 467 - 550	467 - 567 - 667	492 - 592 - 700		
Sound pressure level (measured in anechoic room)*2		dB <A>	32 - 37 - 41	35 - 40 - 44	36 - 41 - 45		
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)	mm(in.)	9.52 (3/8) Brazed	9.52 (3/8) Brazed	9.52 (3/8) Brazed		
	Gas (R410A)	mm(in.)	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed		
Field drain pipe size		mm(in.)	O.D. 32(1-1/4)	O.D. 32(1-1/4)	O.D. 32(1-1/4)		
Drawing	External		KB94R527	KB94R527	KB94R527		
	Wiring		KB94R531	KB94R531	KB94R531		
	Refrigerant cycle		-	-	-		
Standard attachment	Document		Installation Manual,Instruction Book	Installation Manual,Instruction Book	Installation Manual,Instruction Book		
	Accessory		Insulation pipe for refrigerant pipe,Washer,Drain hose,Tie band	Insulation pipe for refrigerant pipe,Washer,Drain hose,Tie band	Insulation pipe for refrigerant pipe,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)		kcal =kW x 860
2.The values are measured at the rated external static pressure.		BTU/h =kW x 3,412
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)		cfm =m ³ /min x 35.31
4.The rated external static pressure is shown without < > .The factory setting is the rated value.		lbs =kg / 0.4536
		*Above specification data is subject to rounding variation.

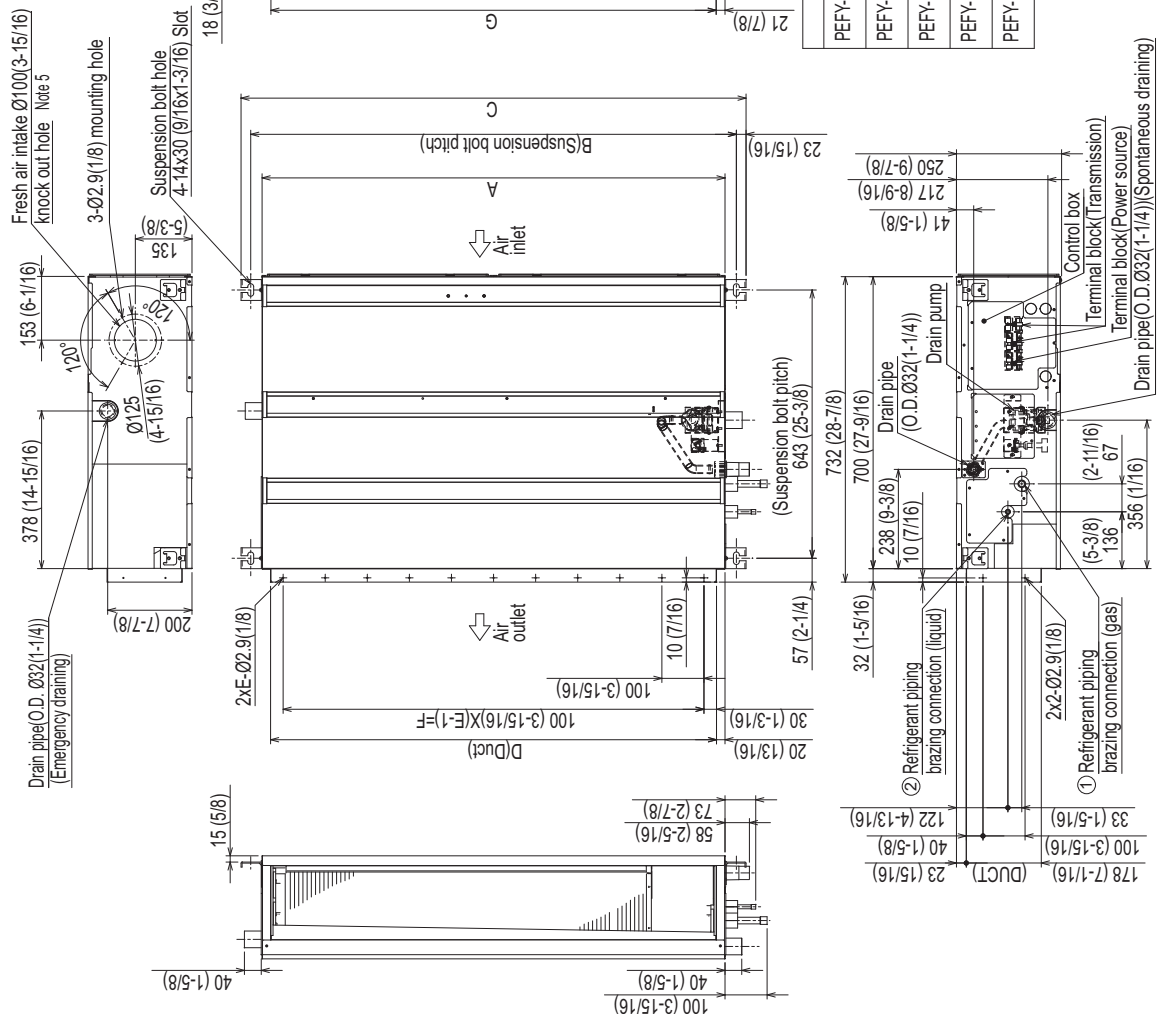
2. EXTERNAL DIMENSIONS

PEFY-NMAU

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

Unit : mm(in.)

1. 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-P24-27-30-36-48-54NMAU-E models, which have 2 fans. PEFY-P06-08-12-15-18NMAU-E models have 1 fan.
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.
5. Heat air to 0°C (32°F) or higher when taking fresh air with a fresh air intake.



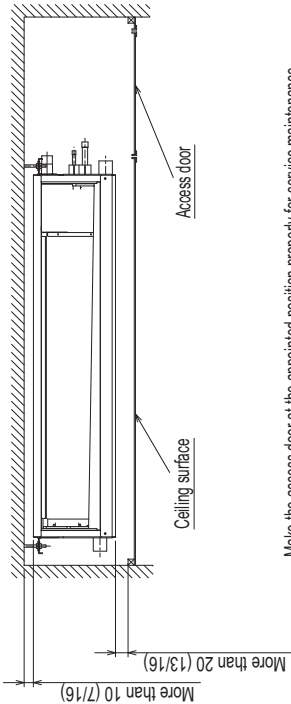
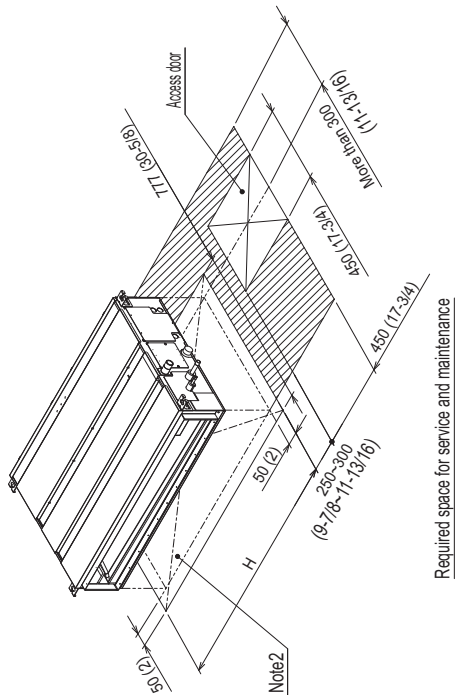
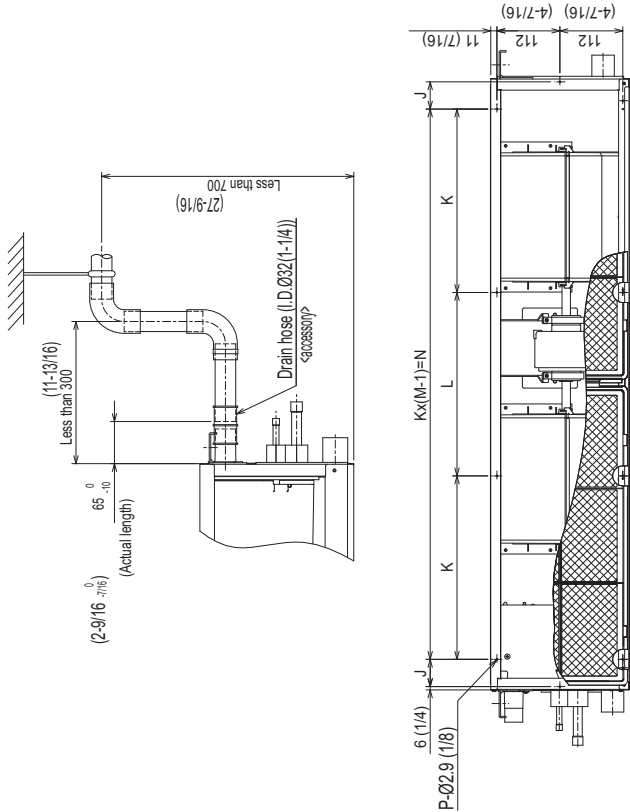
Model	Unit:mm (in.)	
	① Gas pipe	② Liquid pipe
PEFY-P08,08,12NMAU-E	Ø12.7 (1/2)	Ø6.35 (1/4)
PEFY-P16,16,18NMAU-E		
PEFY-P24,27,30NMAU-E		
PEFY-P36,48NMAU-E	Ø15.88 (5/8)	Ø9.52 (3/8)
PEFY-P54NMAU-E		

Model	A	B	C	D	E	F	G
PEFY-P06,08,12NMAU-E	700 (27.9/16)	754 (29.11/16)	800 (31.1/12)	660 (26)	7	600 (23.5/16)	658 (25.5/16)
PEFY-P15,P18NMAU-E	900 (35.7/16)	954 (37.9/16)	1000 (39.3/8)	860 (33.7/8)	9	800 (31.1/2)	858 (33.13/16)
PEFY-P24,27,30NMAU-E	1100 (43.5/16)	1154 (45.7/16)	1200 (47.1/4)	1080 (41.3/4)	11	1000 (39.3/8)	1058 (41.11/16)
PEFY-P36,48NMAU-E	1400 (55.1/8)	1454 (57.1/8)	1500 (59.1/16)	1360 (53.9/16)	14	1300 (51.3/16)	1358 (53.12)
PEFY-P54NMAU-E	1600 (63)	1654 (65.18)	1700 (66.15/16)	1560 (61.7/16)	16	1500 (59.1/16)	1558 (61.3/8)

PEFY-NMAU

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

Unit : mm(in.)



Model	H	J	K	L	M	N	P
PEFY-P06,08,12NMAU-E	800 (31-1/2)	44 (1-3/4)	150 (5-15/16)	300 (11-13/16)			10
PEFY-P15,P18NMAU-E	1000 (39-3/8)	54 (2-3/16)	260 (10-1/4)		4	780 (30-3/4)	10
PEFY-P24,27,30NMAU-E	1200 (47-1/4)	49 (1-15/16)	330 (13)		4	890 (35)	10
PEFY-P36,48NMAU-E	1500 (59-1/16)	54 (2-3/16)	320 (12-5/8)		5	1280 (50-7/16)	12
PEFY-P54NMAU-E	1700 (66-15/16)	54 (2-3/16)	370 (14-5/8)		5	1480 (58-5/16)	12

2. EXTERNAL DIMENSIONS

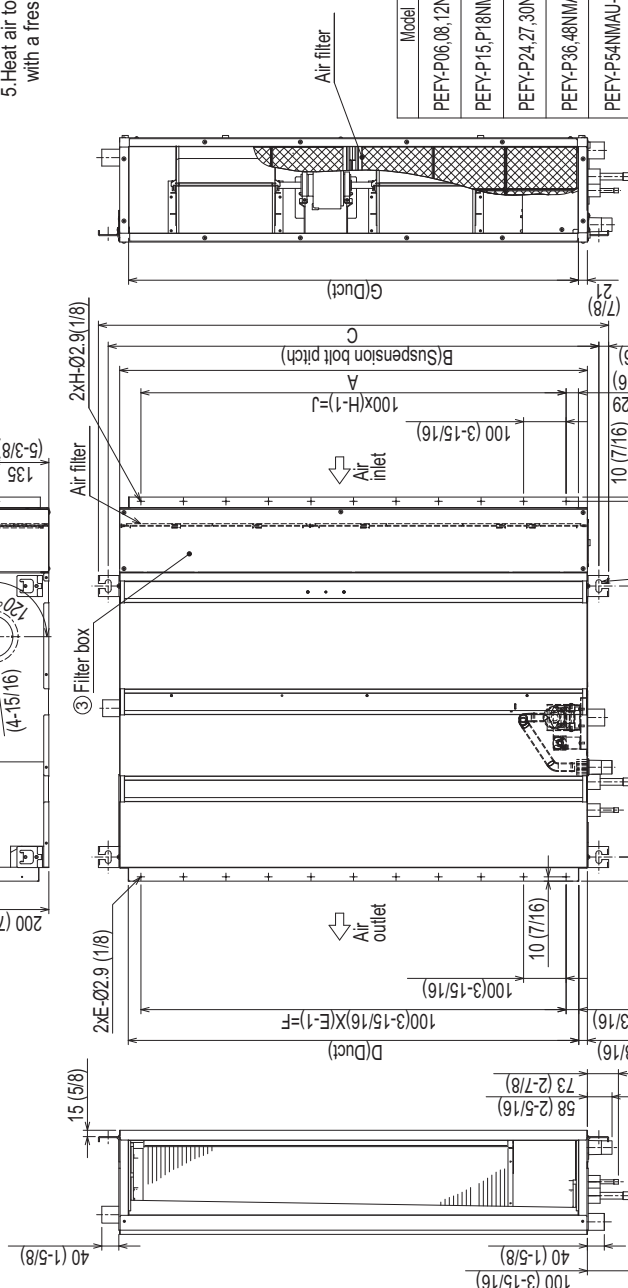
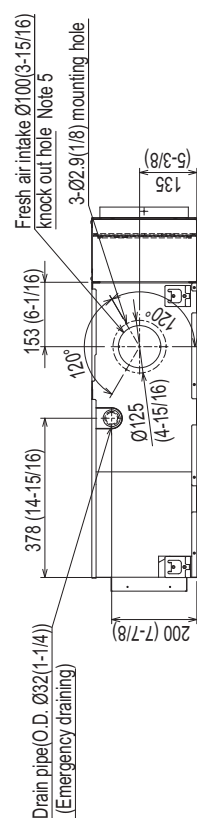
PEFY-NMAU

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

Unit : mm(in.)

Note

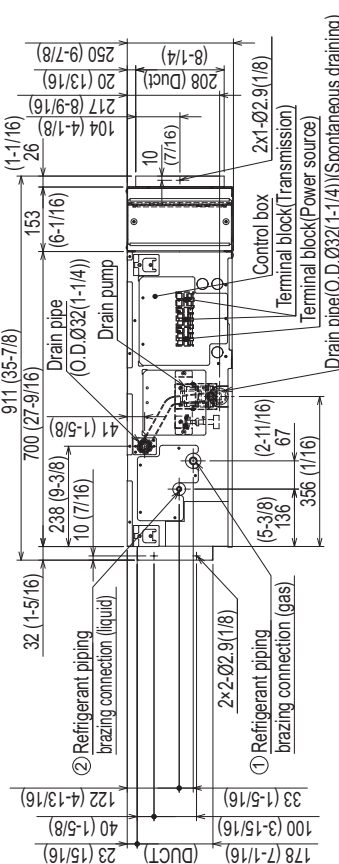
1. Use M10 screw for the Suspension bolt (field supply).
2. Keep the service space for the maintenance at the bottom.
3. This chart indicates for PEFY-P24-27-30-36-48-54NMAU-E models which have 2 fans. PEFY-P06-08-12-15-18NMAU-E models have 1 fan.
4. Use air filter installed with indoor unit.
5. Heat air to 0°C (32°F) or higher when taking fresh air with a fresh air intake.



Model	① Gas pipe	② Liquid pipe	③ Filter box
PEFY-P06.08, 12NMAU-E	Ø12.7 (1/2)	Ø6.35 (1/4)	PAC-KE91TB-E
PEFY-P15, P18NMAU-E			PAC-KE92TB-E
PEFY-P24, 27, 30NMAU-E			PAC-KE93TB-E
PEFY-P36, 48NMAU-E	Ø15.88 (5/8)	Ø9.52 (3/8)	PAC-KE94TB-E
PEFY-P54NMAU-E			PAC-KE95TB-E

Model	A	B	C	D	E	F	G	H	J
PEF+P06.08.12NMAU-E	700 (27.9-16)	754 (29.11-16)	800 (31.1-12)	660 (26)	7	600 (23-58)	658 (25-15)	7	600 (23-58)
PEF+P15.P18NMAU-E	900 (35.7-16)	954 (37.9-16)	1000 (39.3-8)	860 (33.7-8)	9	800 (31-12)	858 (33.3-16)	9	800 (31-12)
PEF+P24.27.30NMAU-E	1100 (43.5-16)	1154 (45.7-16)	1200 (47.1-4)	1060 (41.3-34)	11	1000 (39-38)	1058 (41.11-16)	11	1000 (39-38)
PEF+P36.48NMAU-E	1400 (55-18)	1454 (57.1-4)	1500 (59.1-16)	1360 (53.9-16)	14	1300 (51-316)	1358 (53-12)	14	1300 (51-316)
PEF+P54NMAU-E	1600 (63)	1654 (65.1-8)	1700 (66.5-16)	1560 (61.7-16)	16	1500 (59.116)	1558 (61.3-8)	16	1500 (59.116)

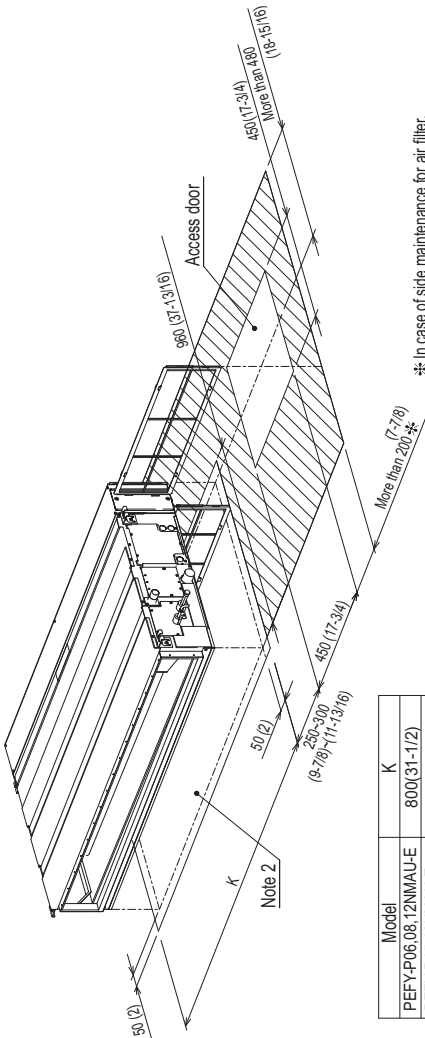
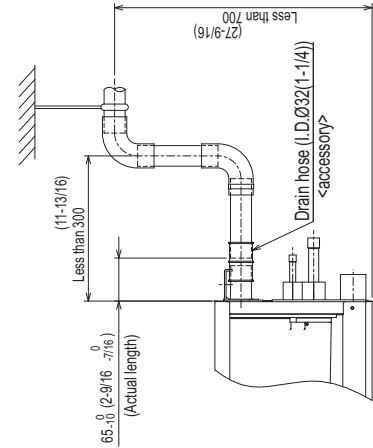
<Suction filter box built-in specification>



PEFY-NMAU

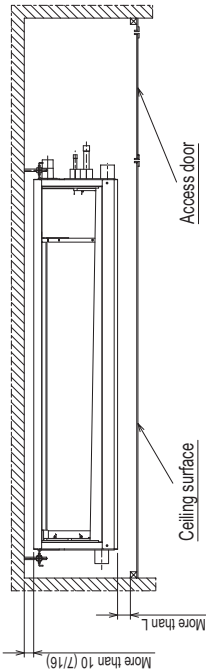
PEFY-P06, 08, 12, 15, 18, 24, 27, 30, 36, 48, 54NMAU-E with filter box

Unit : mm(in.)



Model	K
PEFY-P06,08,12NMAU-E	800(31-1/2)
PEFY-P15,18NMAU-E	1000(39-3/8)
PEFY-P24,27,30NMAU-E	1200(47-1/4)
PEFY-P36,48NMAU-E	1500(59-1/16)
PEFY-P54NMAU-E	1700(66-15/16)

Required space for service and maintenance

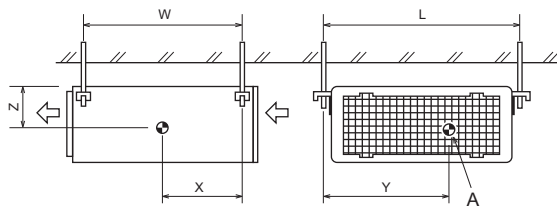


Maintenance type for air filter	L
Side maintenance	20(13/16)
Under maintenance	250(9-7/8)

Make the access door at the appointed position properly for service maintenance.

<Suction filter box built-in specification>

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



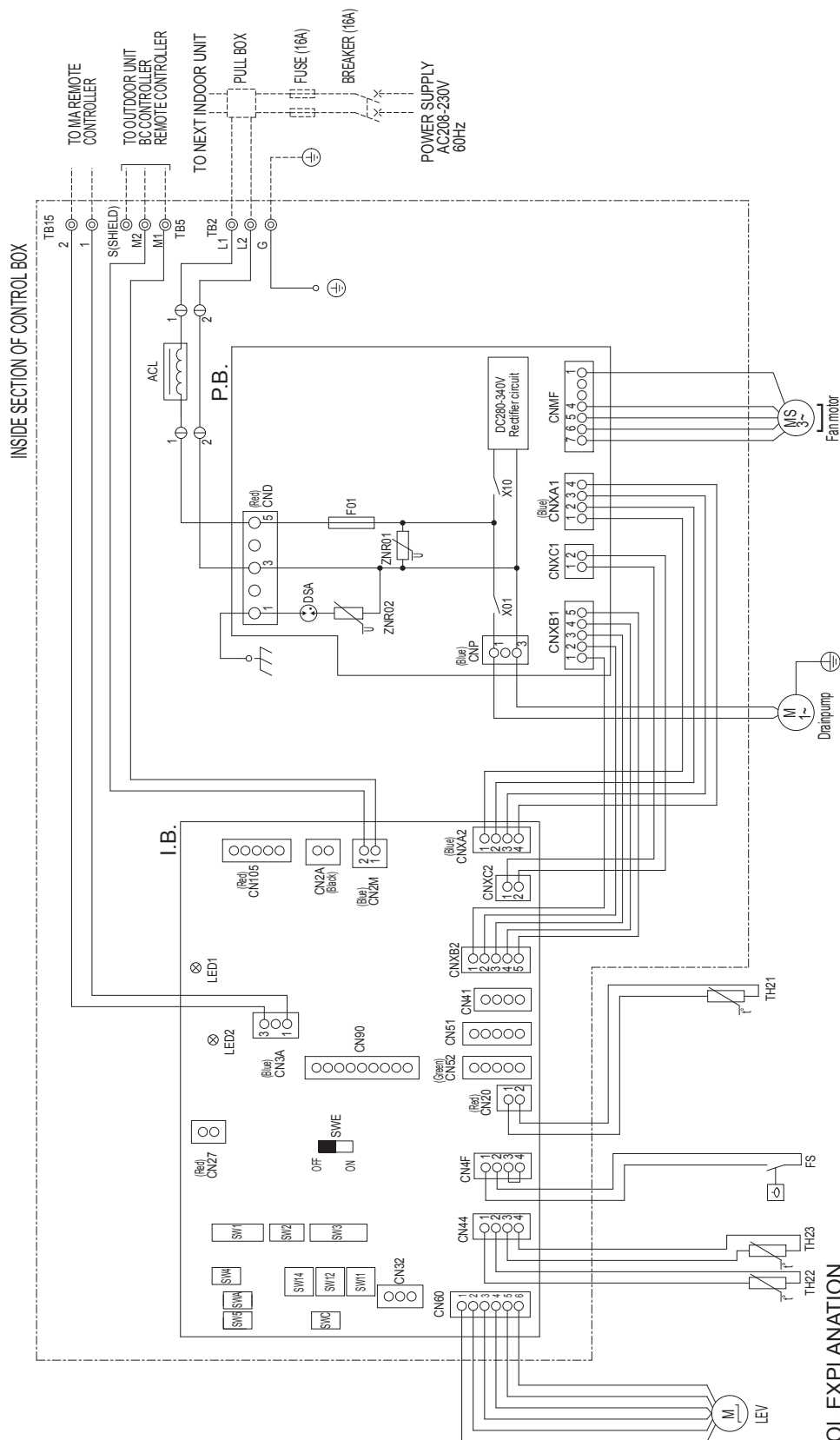
A : Center of gravity

(mm)[in]

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

PEFY-NMAU

INSIDE SECTION OF CONTROL BOX



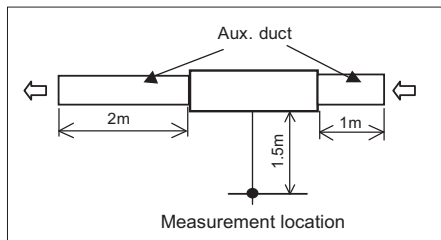
NOTE: 1. The wirings to TB2, TB5, TB15 shown in dotted line are field work.
2. Mark © indicates terminal block, ⊙ connector.
3. Use copper supply wire.

SYMBOL EXPLANATION

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
I.B.	Indoor controller board	CN41	Connector (HA terminal-A)	SW4(I.B.)	Switch (for mode selection)
P.B.	Power supply board	CN51	Connector (Centrally control)	SW5(I.B.)	Switch (for mode selection)
TB2	Power source terminal block	CN52	Connector (Remote indication)	SW11(I.B.)	Switch (1s digit address set)
TB5	Transmission terminal block	CN90	Connector (Wireless)	SW12(I.B.)	Switch (10ths digit address set)
TB15	Transmission terminal block	CN105	Connector (I/T terminal)	SW14(I.B.)	Switch (BRANCH No.)
F01	Fuse AC250V 6.3A	CN2A	Connector (0-10V Analog input)	SWA(I.B.)	Switch (for static pressure selection)
ZNR01.02	Varistor	FS	Float switch	SWC(I.B.)	Switch (for static pressure selection)
DSA	Arrestor	TH21	Thermistor (inlet air temp. detection)	SWE(I.B.)	Connector (emergency operation)
X01	Aux. relay	TH22	Thermistor (piping temp. detection/liquid)	LED1	LED(Power supply)
X10	Aux. relay	TH23	Thermistor (piping temp. detection/gas)	LED2	LED(Remote controller supply)
ACL	AC reactor(Power factor improvement)	SW1(I.B.)	Switch (for mode selection)		
CN27	Connector (Damper)	SW2(I.B.)	Switch (for capacity code)		
CN32	Connector (Remote switch)	SW3(I.B.)	Switch (for mode selection)		

5-1. Sound levels

PEFY-P-NMAU-E



* Measured in anechoic room.

Sound level at anechoic room : Low-Mid-High

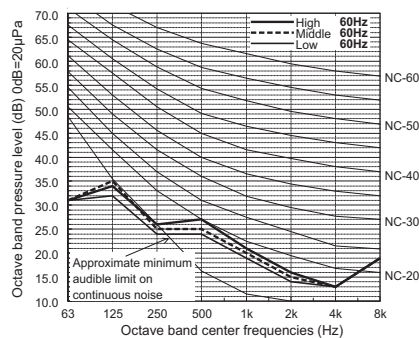
Model	Sound level dB(A)				
	35Pa	50Pa	70Pa	100Pa	150Pa
PEFY-P06NMAU-E	26-27-28	26-28-29	26-29-31	27-30-33	28-33-37
PEFY-P08NMAU-E	26-27-28	26-28-29	26-29-31	27-30-33	28-33-37
PEFY-P12NMAU-E	28-30-34	28-30-34	29-32-36	29-33-37	31-35-40
PEFY-P15NMAU-E	28-30-34	28-30-34	29-32-36	29-33-37	32-36-40
PEFY-P18NMAU-E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

PEFY-NMAU

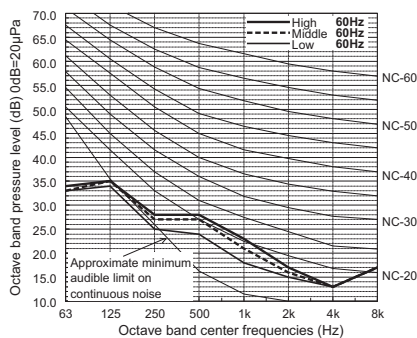
5-2. NC curves

PEFY-P06,08NMAU-E

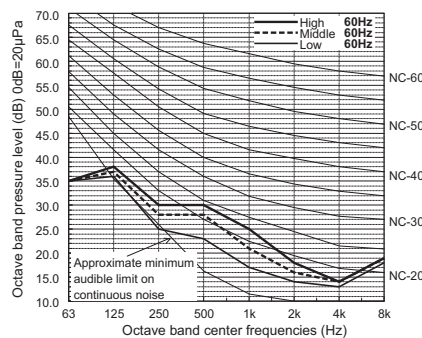
External Static Pressure: 35Pa
Power Source: 208-230V(60Hz)

**PEFY-P06,08NMAU-E**

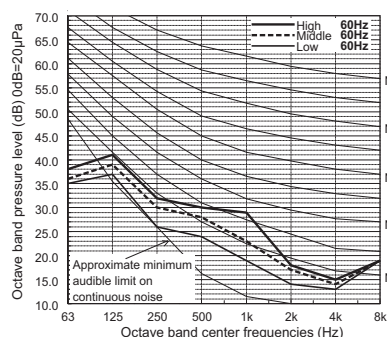
External Static Pressure: 50Pa
Power Source: 208-230V(60Hz)

**PEFY-P06,08NMAU-E**

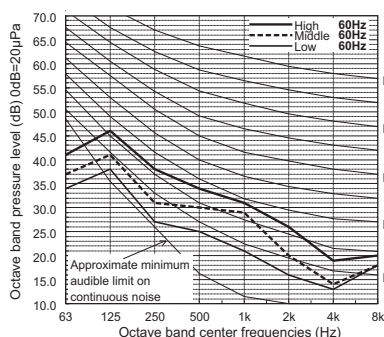
External Static Pressure: 70Pa
Power Source: 208-230V(60Hz)

**PEFY-P06,08NMAU-E**

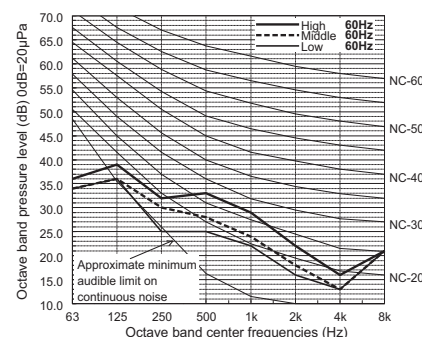
External Static Pressure: 100Pa
Power Source: 208-230V(60Hz)

**PEFY-P06,08NMAU-E**

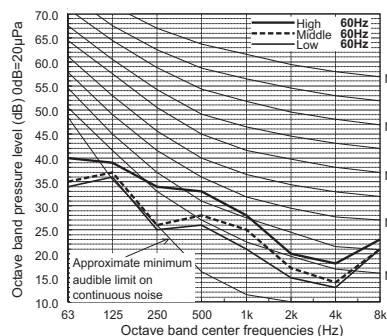
External Static Pressure: 150Pa
Power Source: 208-230V(60Hz)

**PEFY-P12NMAU-E**

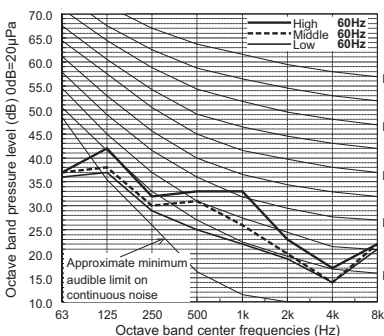
External Static Pressure: 35Pa
Power Source: 208-230V(60Hz)

**PEFY-P12NMAU-E**

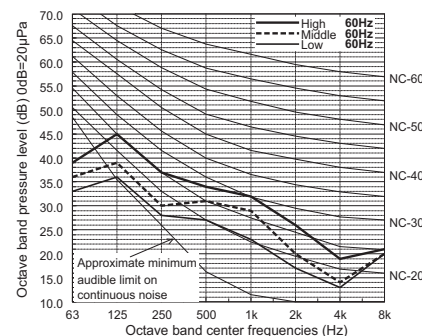
External Static Pressure: 50Pa
Power Source: 208-230V(60Hz)

**PEFY-P12NMAU-E**

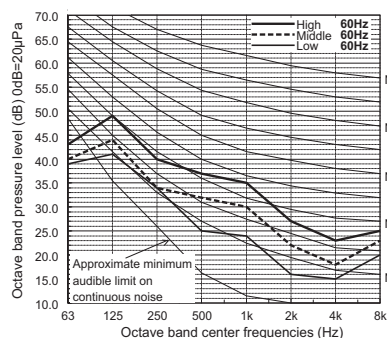
External Static Pressure: 70Pa
Power Source: 208-230V(60Hz)

**PEFY-P12NMAU-E**

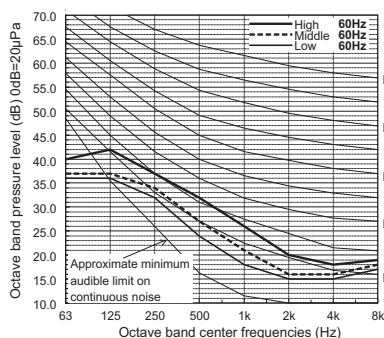
External Static Pressure: 100Pa
Power Source: 208-230V(60Hz)

**PEFY-P12NMAU-E**

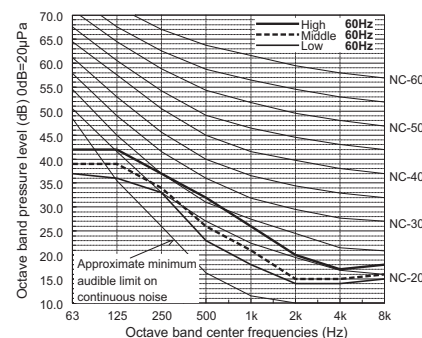
External Static Pressure: 150Pa
Power Source: 208-230V(60Hz)

**PEFY-P15NMAU-E**

External Static Pressure: 35Pa
Power Source: 208-230V(60Hz)

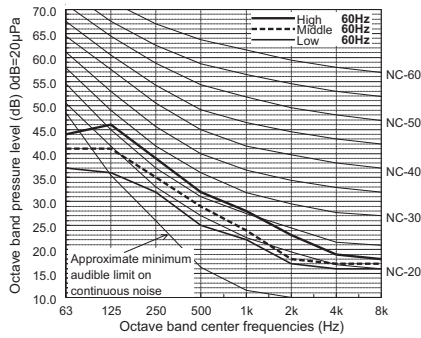
**PEFY-P15NMAU-E**

External Static Pressure: 50Pa
Power Source: 208-230V(60Hz)



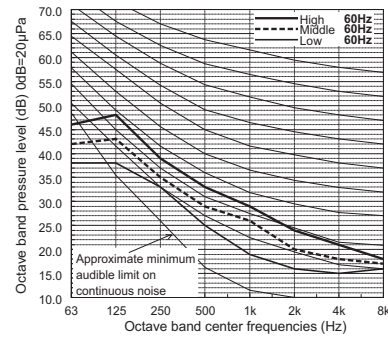
PEFY-P15NMAU-E

External Static Pressure: 70Pa
Power Source: 208-230V(60Hz)



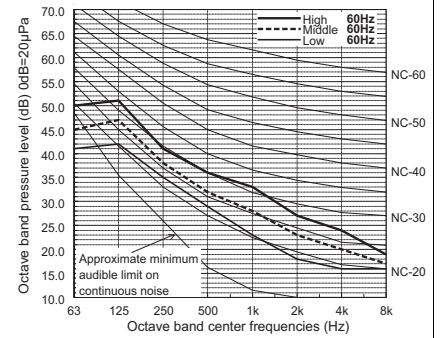
PEFY-P15NMAU-E

External Static Pressure: 100Pa
Power Source: 208-230V(60Hz)



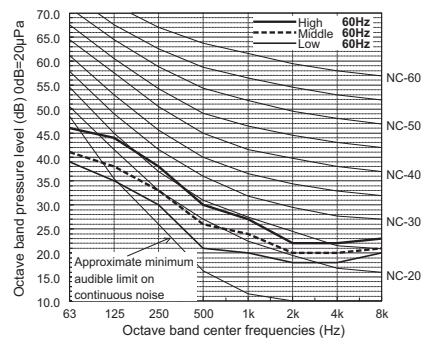
PEFY-P15NMAU-E

External Static Pressure: 150Pa
Power Source: 208-230V(60Hz)



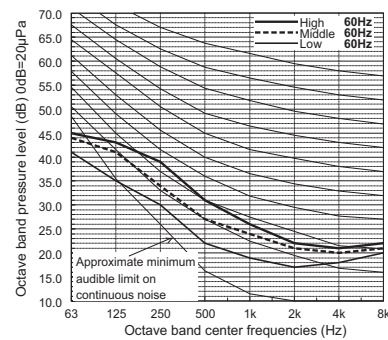
PEFY-P18NMAU-E

External Static Pressure: 35Pa
Power Source: 208-230V(60Hz)



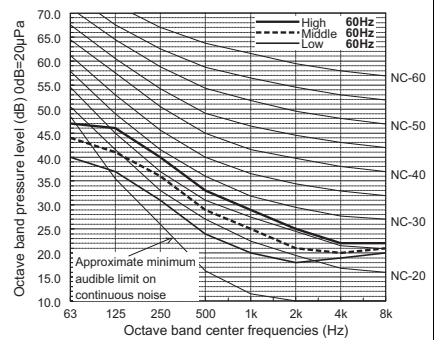
PEFY-P18NMAU-E

External Static Pressure: 50Pa
Power Source: 208-230V(60Hz)



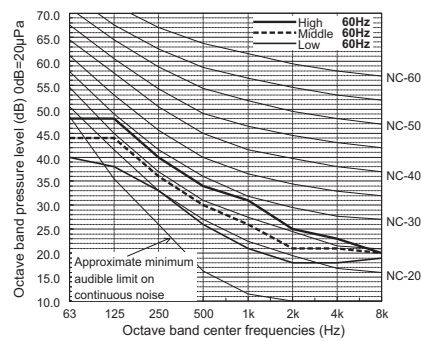
PEFY-P18NMAU-E

External Static Pressure: 70Pa
Power Source: 208-230V(60Hz)



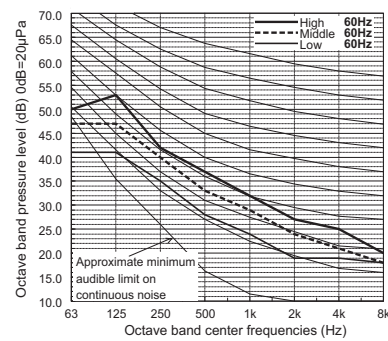
PEFY-P18NMAU-E

External Static Pressure: 100Pa
Power Source: 208-230V(60Hz)



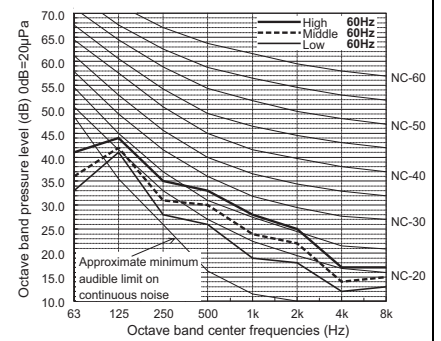
PEFY-P18NMAU-E

External Static Pressure: 150Pa
Power Source: 208-230V(60Hz)



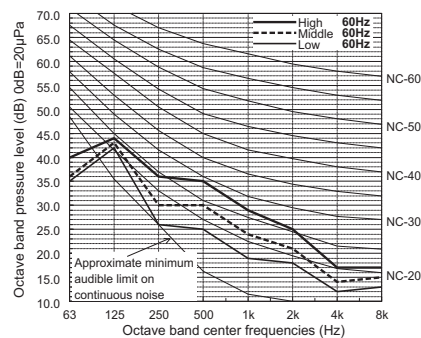
PEFY-P24NMAU-E

External Static Pressure: 35Pa
Power Source: 208-230V(60Hz)



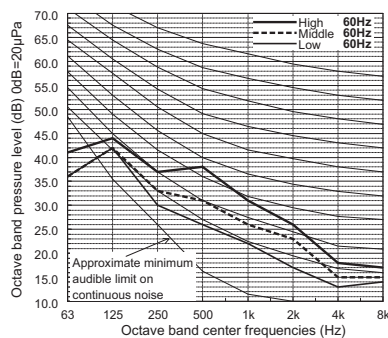
PEFY-P24NMAU-E

External Static Pressure: 50Pa
Power Source: 208-230V(60Hz)



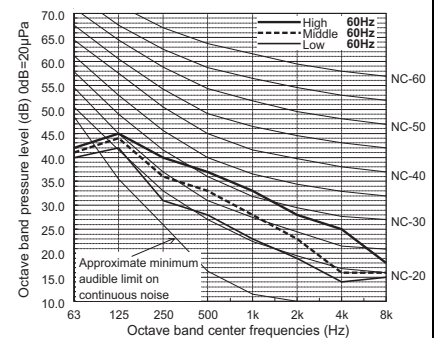
PEFY-P24NMAU-E

External Static Pressure: 70Pa
Power Source: 208-230V(60Hz)



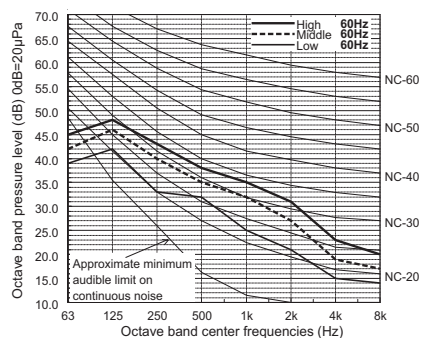
PEFY-P24NMAU-E

External Static Pressure: 100Pa
Power Source: 208-230V(60Hz)

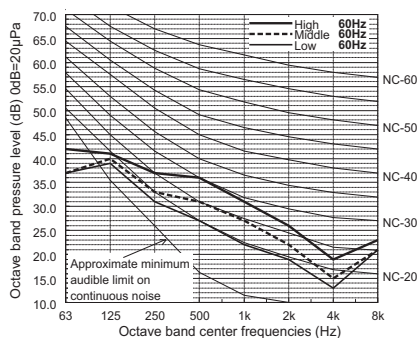


PEFY-P24NMAU-E

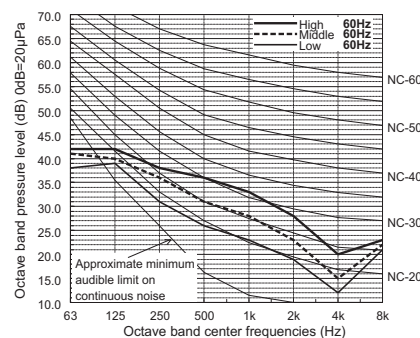
External Static Pressure: 150Pa
Power Source: 208-230V(60Hz)

**PEFY-P27,30NMAU-E**

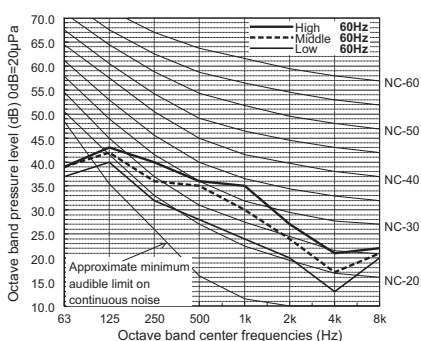
External Static Pressure: 35Pa
Power Source: 208-230V(60Hz)

**PEFY-P27,30NMAU-E**

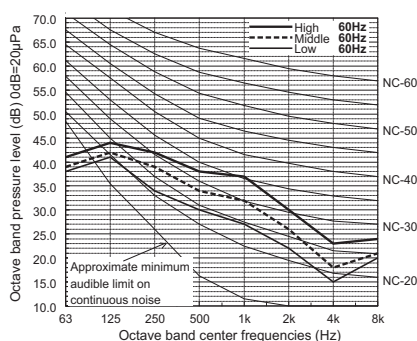
External Static Pressure: 50Pa
Power Source: 208-230V(60Hz)

**PEFY-P27,30NMAU-E**

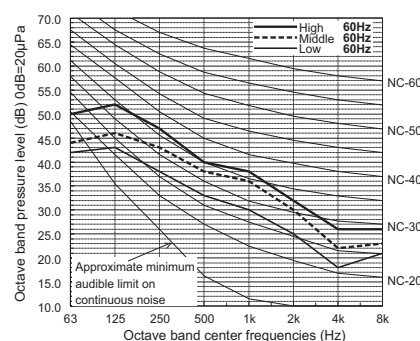
External Static Pressure: 70Pa
Power Source: 208-230V(60Hz)

**PEFY-P27,30NMAU-E**

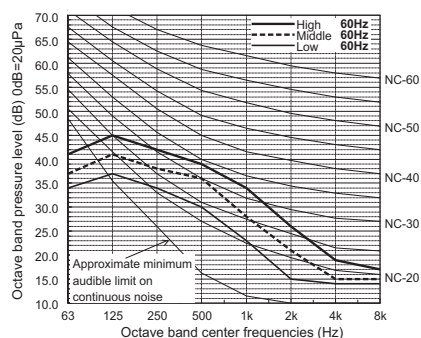
External Static Pressure: 100Pa
Power Source: 208-230V(60Hz)

**PEFY-P27,30NMAU-E**

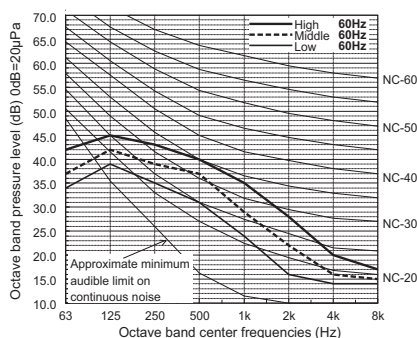
External Static Pressure: 150Pa
Power Source: 208-230V(60Hz)

**PEFY-P36NMAU-E**

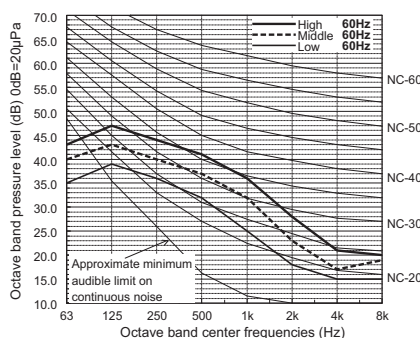
External Static Pressure: 35Pa
Power Source: 208-230V(60Hz)

**PEFY-P36NMAU-E**

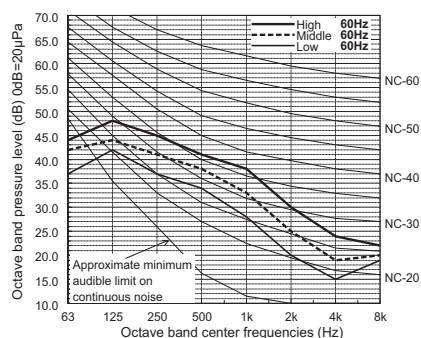
External Static Pressure: 50Pa
Power Source: 208-230V(60Hz)

**PEFY-P36NMAU-E**

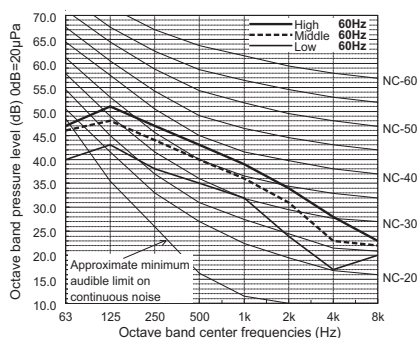
External Static Pressure: 70Pa
Power Source: 208-230V(60Hz)

**PEFY-P36NMAU-E**

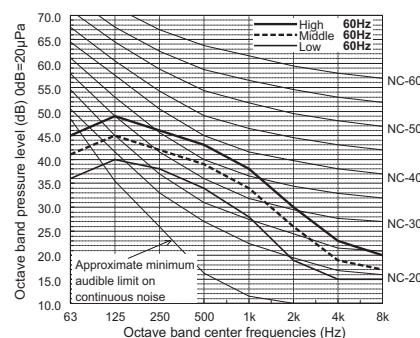
External Static Pressure: 100Pa
Power Source: 208-230V(60Hz)

**PEFY-P36NMAU-E**

External Static Pressure: 150Pa
Power Source: 208-230V(60Hz)

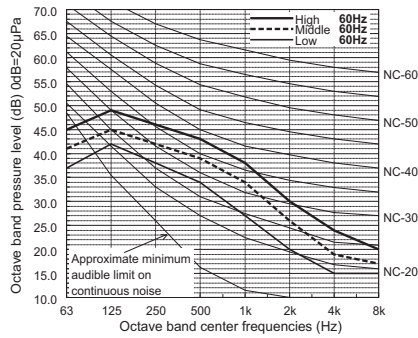
**PEFY-P48NMAU-E**

External Static Pressure: 35Pa
Power Source: 208-230V(60Hz)

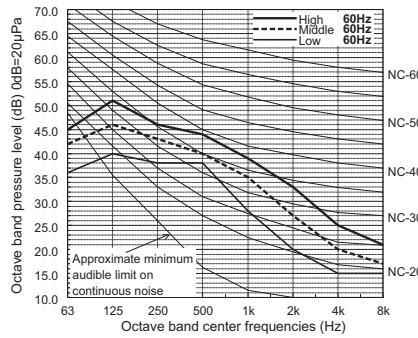


PEFY-P48NMAU-E

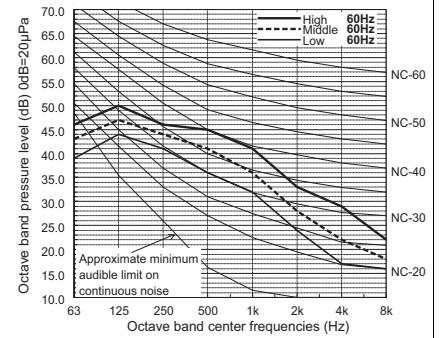
External Static Pressure: 50Pa
Power Source: 208-230V(60Hz)

**PEFY-P48NMAU-E**

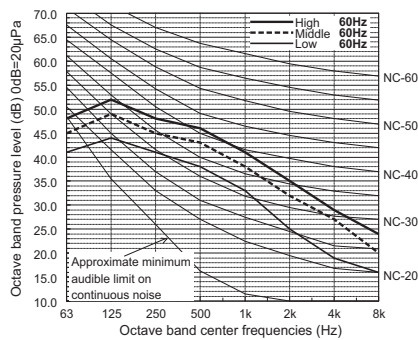
External Static Pressure: 70Pa
Power Source: 208-230V(60Hz)

**PEFY-P48NMAU-E**

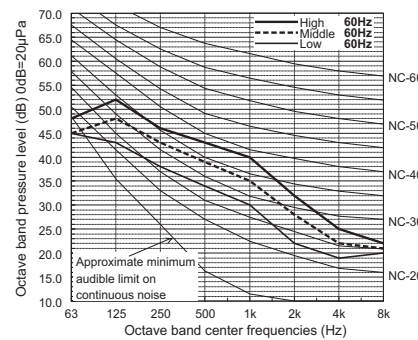
External Static Pressure: 100Pa
Power Source: 208-230V(60Hz)

**PEFY-P48NMAU-E**

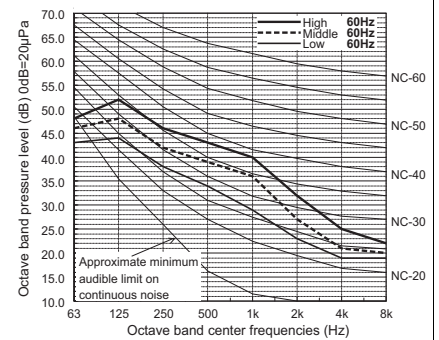
External Static Pressure: 150Pa
Power Source: 208-230V(60Hz)

**PEFY-P54NMAU-E**

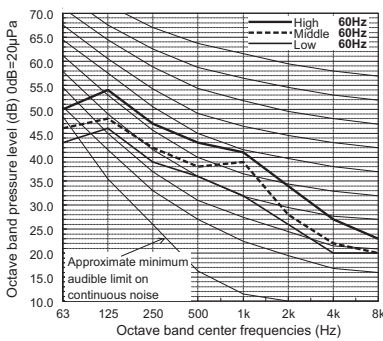
External Static Pressure: 35Pa
Power Source: 208-230V(60Hz)

**PEFY-P54NMAU-E**

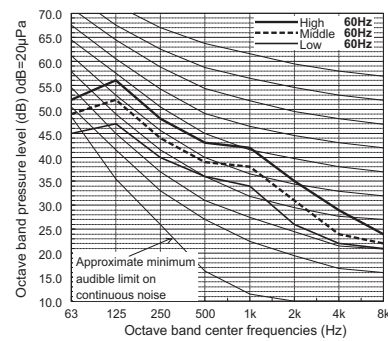
External Static Pressure: 50Pa
Power Source: 208-230V(60Hz)

**PEFY-P54NMAU-E**

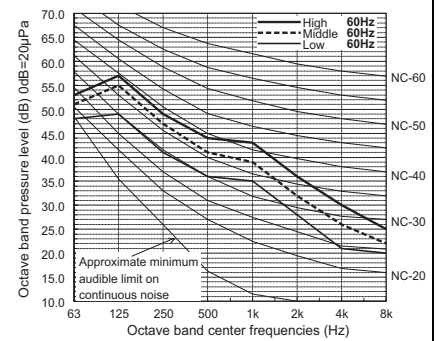
External Static Pressure: 70Pa
Power Source: 208-230V(60Hz)

**PEFY-P54NMAU-E**

External Static Pressure: 100Pa
Power Source: 208-230V(60Hz)

**PEFY-P54NMAU-E**

External Static Pressure: 150Pa
Power Source: 208-230V(60Hz)



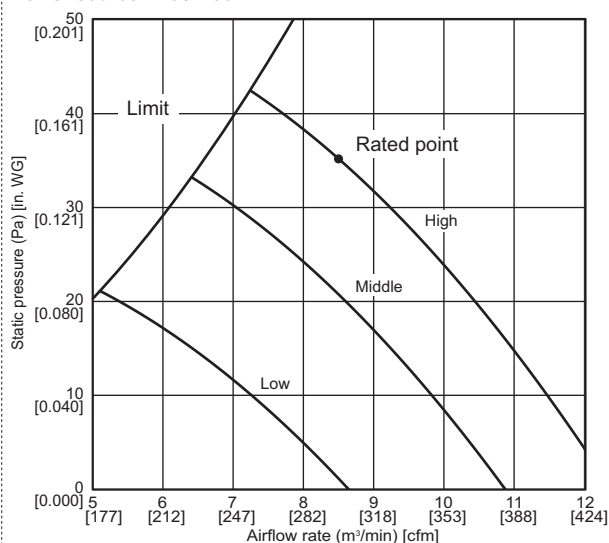
6. FAN CHARACTERISTICS CURVES

DATA U6-2

PEFY-P06,08NMAU-E

External static pressure : 35Pa [0.141in.WG]

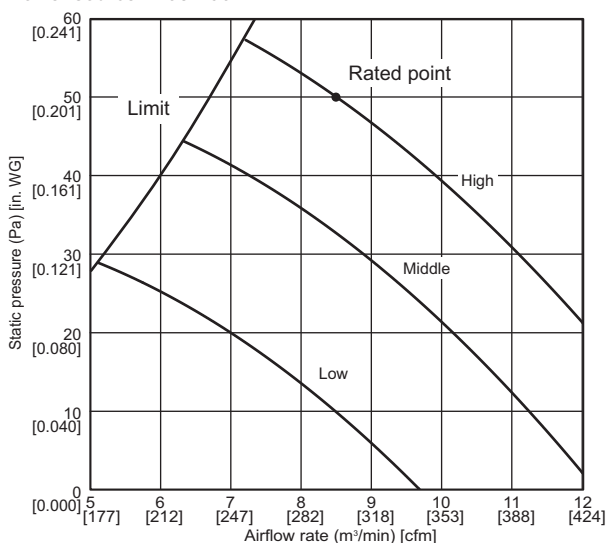
Power source : 208-230V



PEFY-P06,08NMAU-E

External static pressure : 50Pa [0.201in.WG]

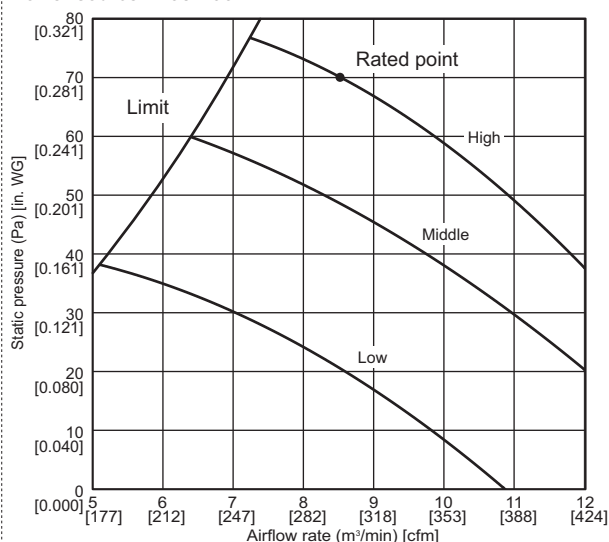
Power source : 208-230V



PEFY-P06,08NMAU-E

External static pressure : 70Pa [0.281in.WG]

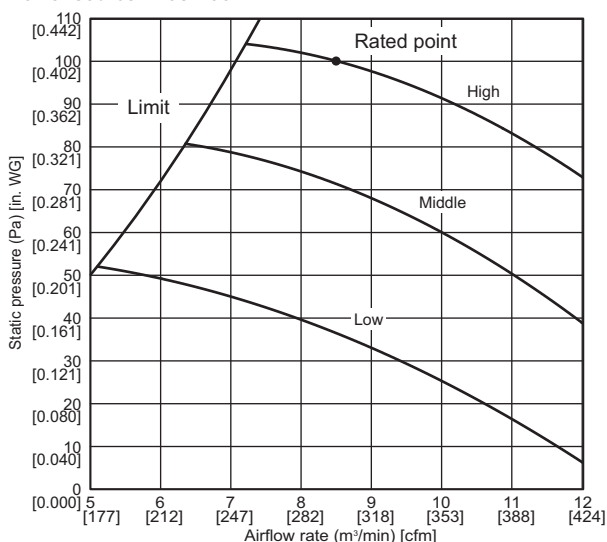
Power source : 208-230V



PEFY-P06,08NMAU-E

External static pressure : 100Pa [0.402in.WG]

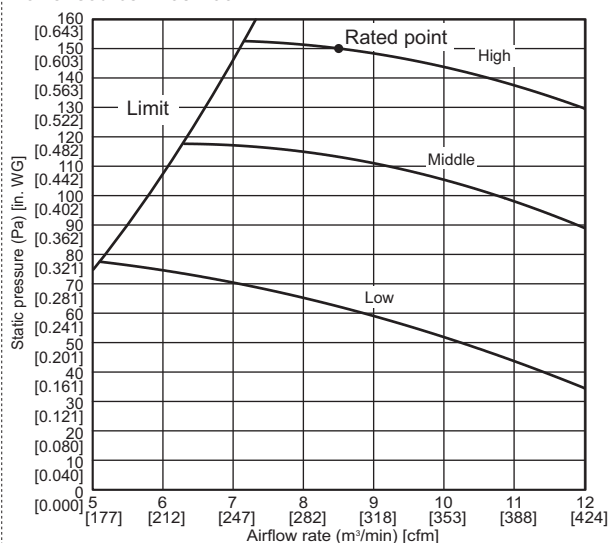
Power source : 208-230V



PEFY-P06,08NMAU-E

External static pressure : 150Pa [0.603in.WG]

Power source : 208-230V



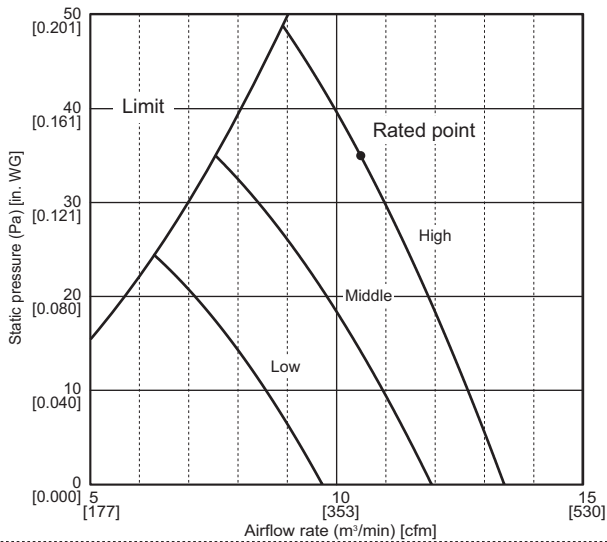
6. FAN CHARACTERISTICS CURVES

DATA U6-2

PEFY-NMAU

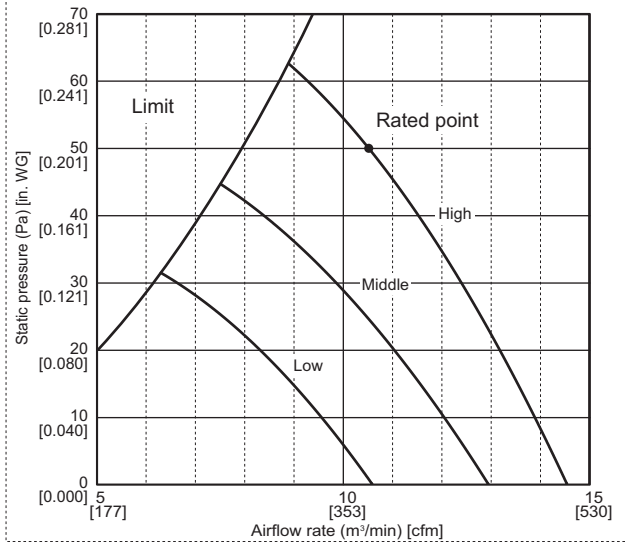
PEFY-P12NMAU-E

External static pressure : 35Pa [0.141in.WG]
Power source : 208-230V



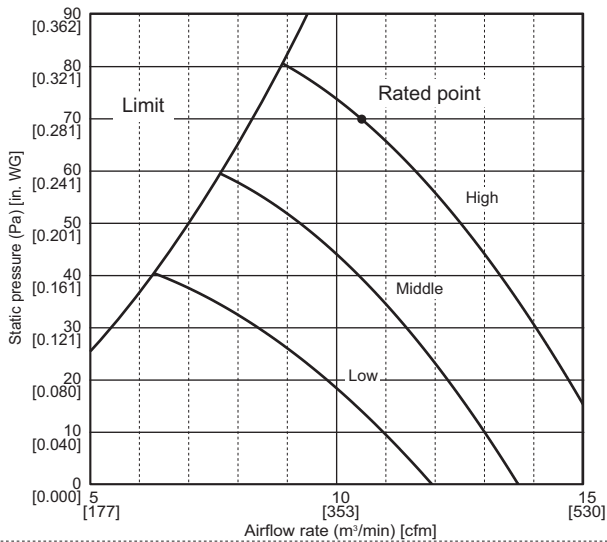
PEFY-P12NMAU-E

External static pressure : 50Pa [0.201in.WG]
Power source : 208-230V



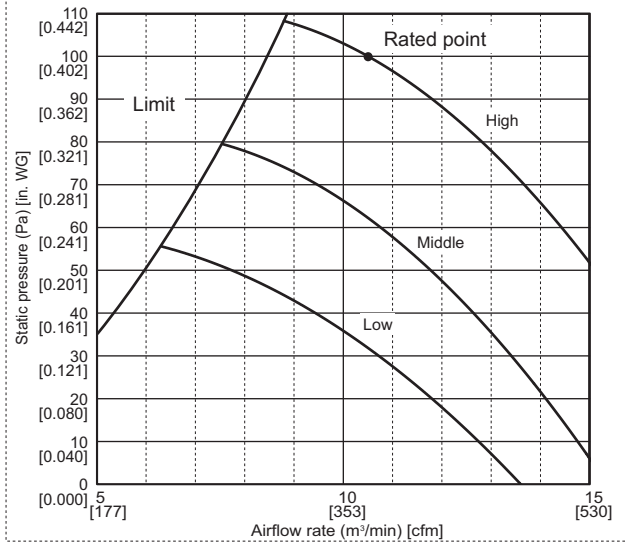
PEFY-P12NMAU-E

External static pressure : 70Pa [0.281in.WG]
Power source : 208-230V



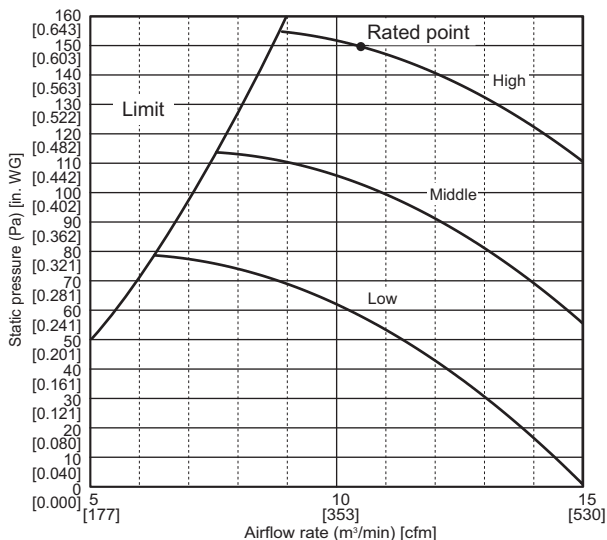
PEFY-P12NMAU-E

External static pressure : 100Pa [0.402in.WG]
Power source : 208-230V



PEFY-P12NMAU-E

External static pressure : 150Pa [0.603in.WG]
Power source : 208-230V



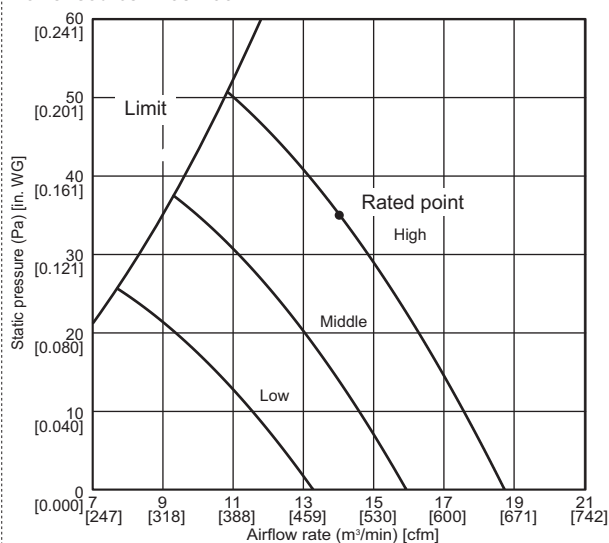
6. FAN CHARACTERISTICS CURVES

DATA U6-2

PEFY-P15NMAU-E

External static pressure : 35Pa [0.141in.WG]

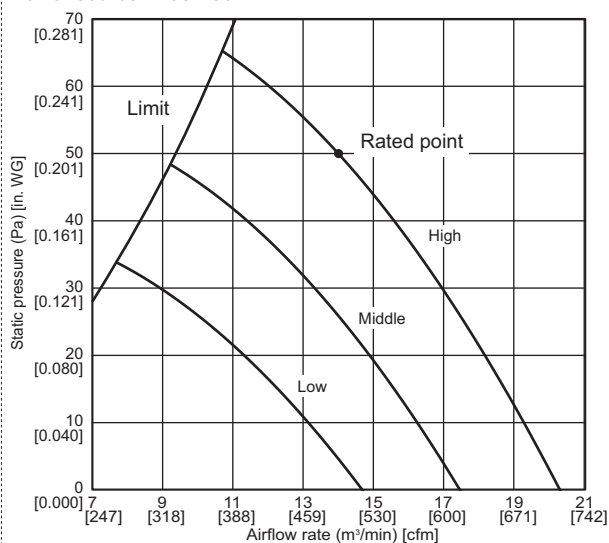
Power source : 208-230V



PEFY-P15NMAU-E

External static pressure : 50Pa [0.201in.WG]

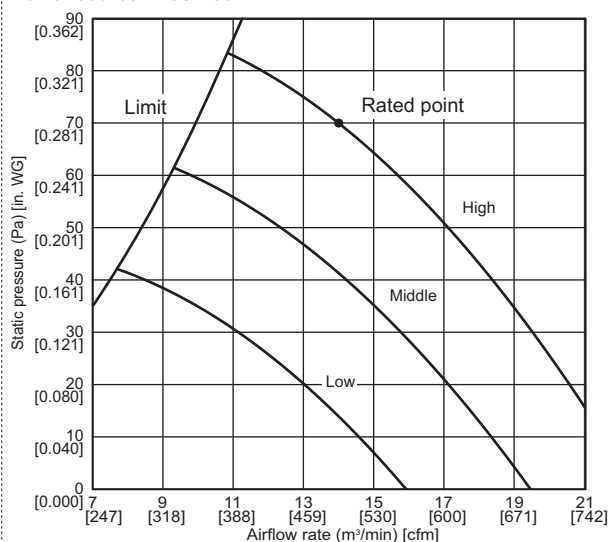
Power source : 208-230V



PEFY-P15NMAU-E

External static pressure : 70Pa [0.281in.WG]

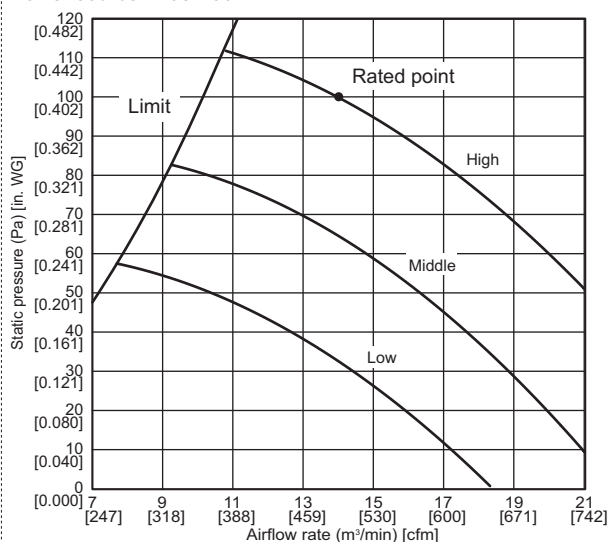
Power source : 208-230V



PEFY-P15NMAU-E

External static pressure : 100Pa [0.402in.WG]

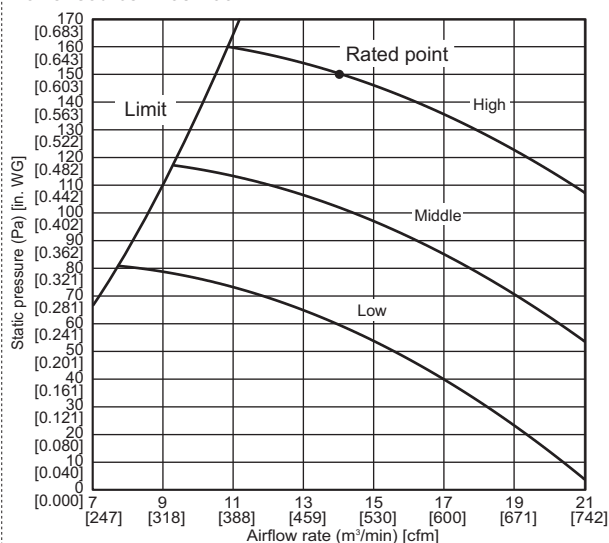
Power source : 208-230V



PEFY-P15NMAU-E

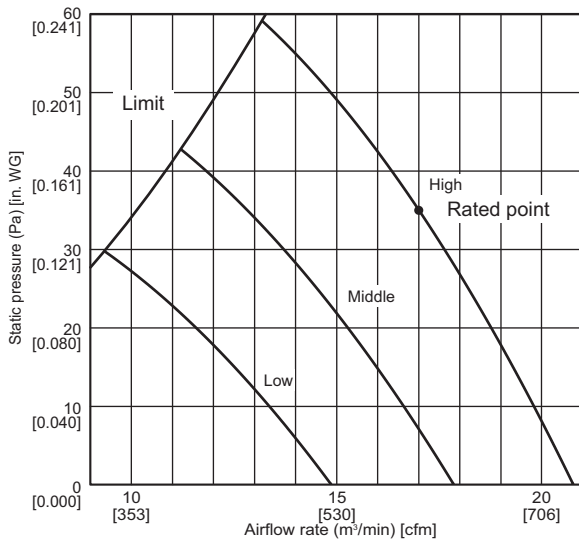
External static pressure : 150Pa [0.603in.WG]

Power source : 208-230V



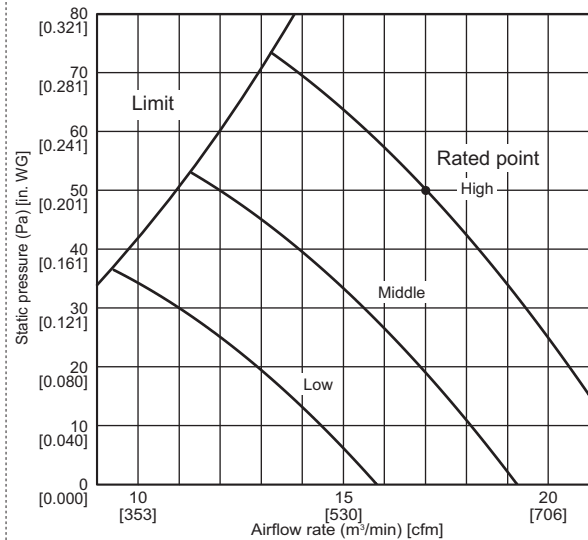
PEFY-P18NMAU-E

External static pressure : 35Pa [0.141in.WG]
Power source : 208-230V



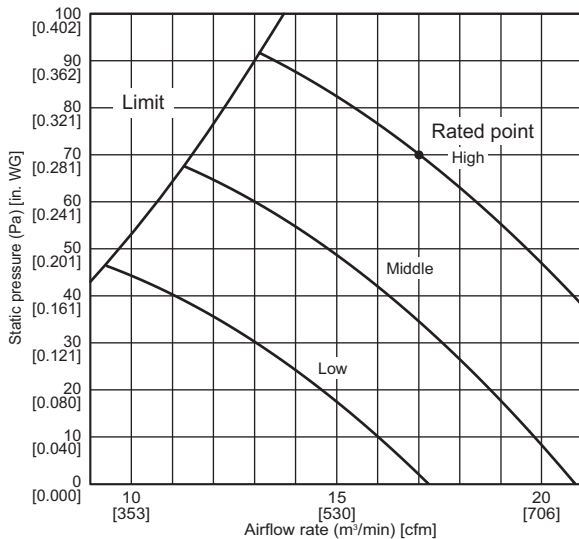
PEFY-P18NMAU-E

External static pressure : 50Pa [0.201in.WG]
Power source : 208-230V



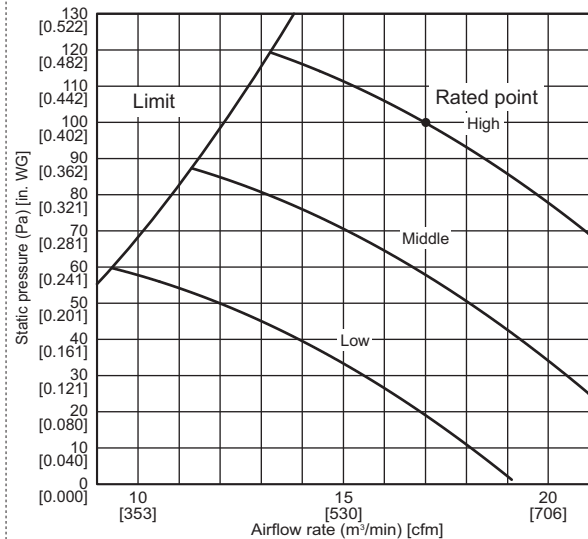
PEFY-P18NMAU-E

External static pressure : 70Pa [0.281in.WG]
Power source : 208-230V



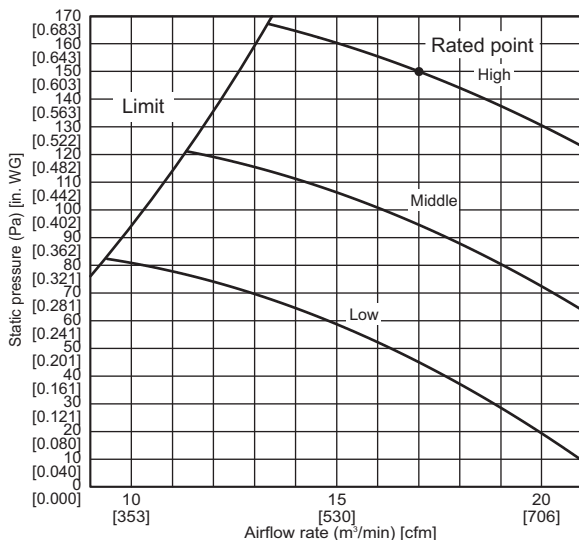
PEFY-P18NMAU-E

External static pressure : 100Pa [0.402in.WG]
Power source : 208-230V



PEFY-P18NMAU-E

External static pressure : 150Pa [0.603in.WG]
Power source : 208-230V



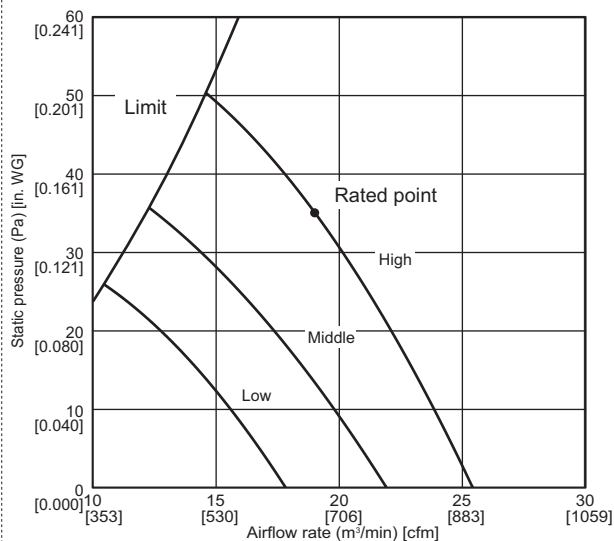
6. FAN CHARACTERISTICS CURVES

DATA U6-2

PEFY-P24NMAU-E

External static pressure : 35Pa [0.141in.WG]

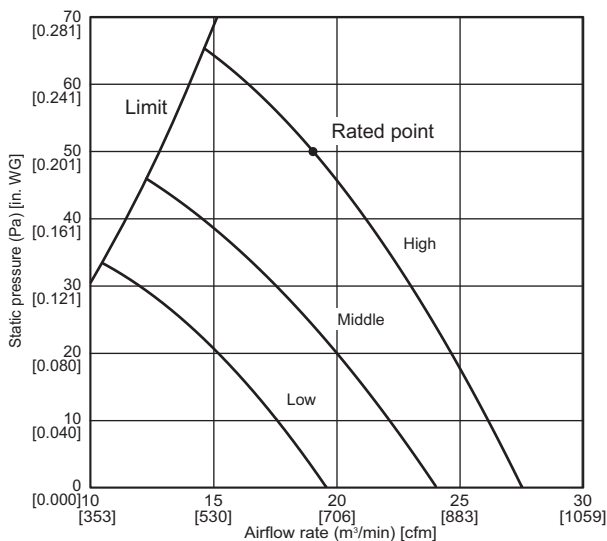
Power source : 208-230V



PEFY-P24NMAU-E

External static pressure : 50Pa [0.201in.WG]

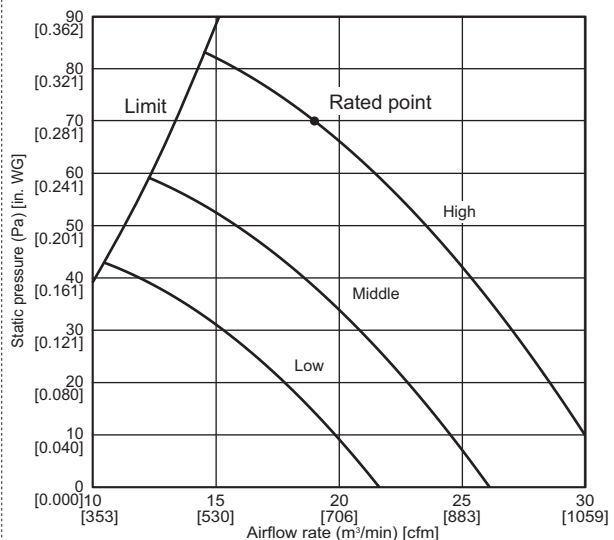
Power source : 208-230V



PEFY-P24NMAU-E

External static pressure : 70Pa [0.281in.WG]

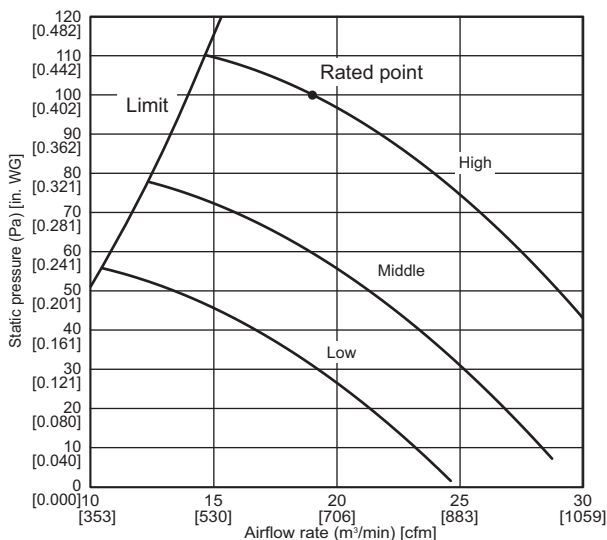
Power source : 208-230V



PEFY-P24NMAU-E

External static pressure : 100Pa [0.402in.WG]

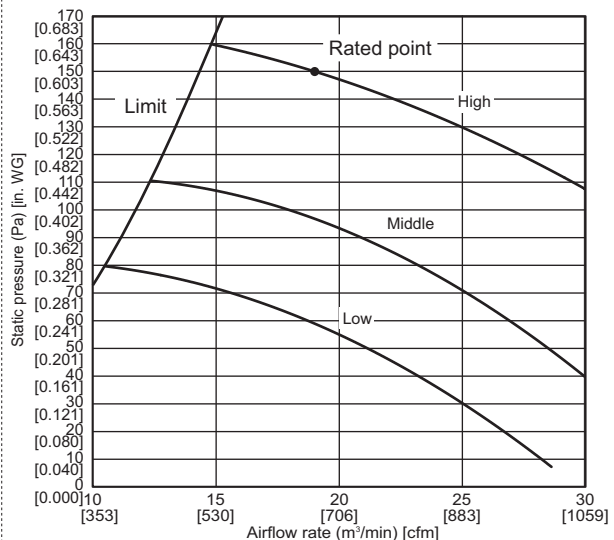
Power source : 208-230V



PEFY-P24NMAU-E

External static pressure : 150Pa [0.603in.WG]

Power source : 208-230V



6. FAN CHARACTERISTICS CURVES

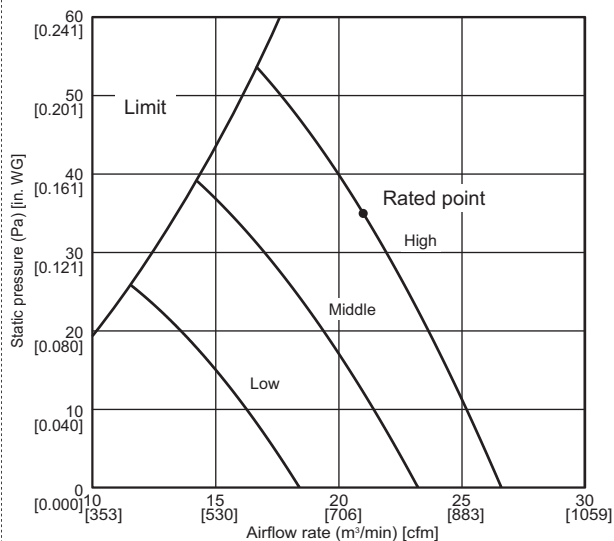
DATA U6-2

PEFY-NMAU

PEFY-P27,30NMAU-E

External static pressure : 35Pa [0.141in.WG]

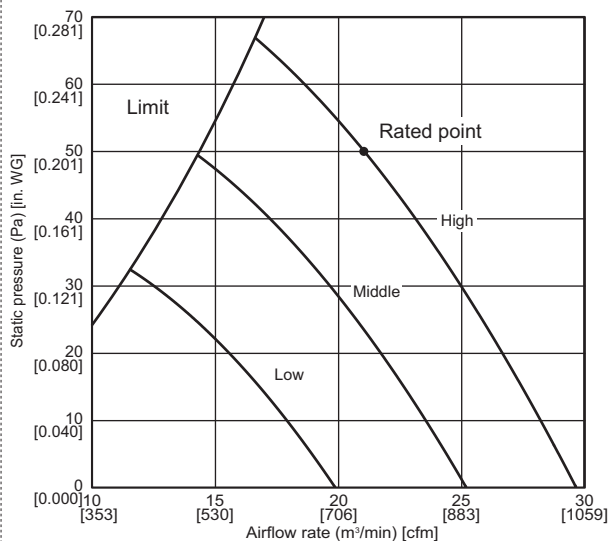
Power source : 208-230V



PEFY-P27,30NMAU-E

External static pressure : 50Pa [0.201in.WG]

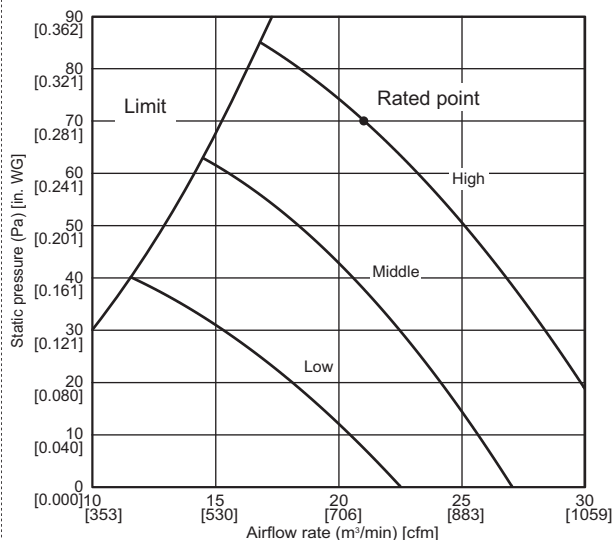
Power source : 208-230V



PEFY-P27,30NMAU-E

External static pressure : 70Pa [0.281in.WG]

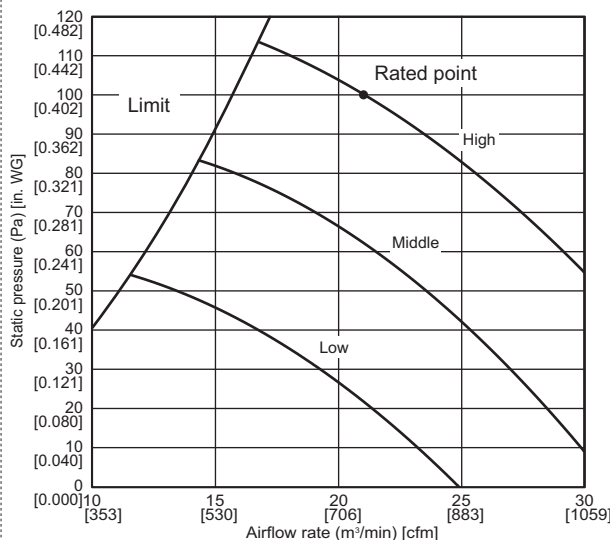
Power source : 208-230V



PEFY-P27,30NMAU-E

External static pressure : 100Pa [0.402in.WG]

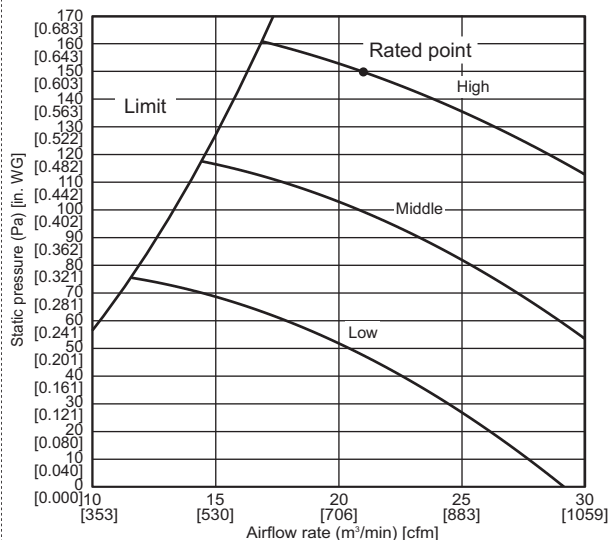
Power source : 208-230V



PEFY-P27,30NMAU-E

External static pressure : 150Pa [0.603in.WG]

Power source : 208-230V



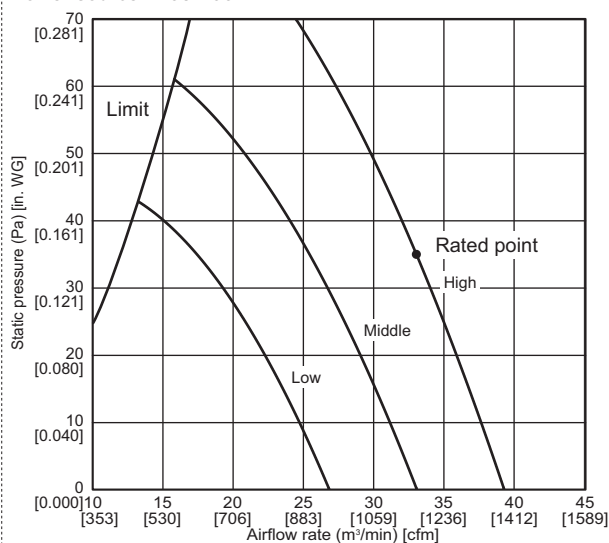
6. FAN CHARACTERISTICS CURVES

DATA U6-2

PEFY-P36NMAU-E

External static pressure : 35Pa [0.141in.WG]

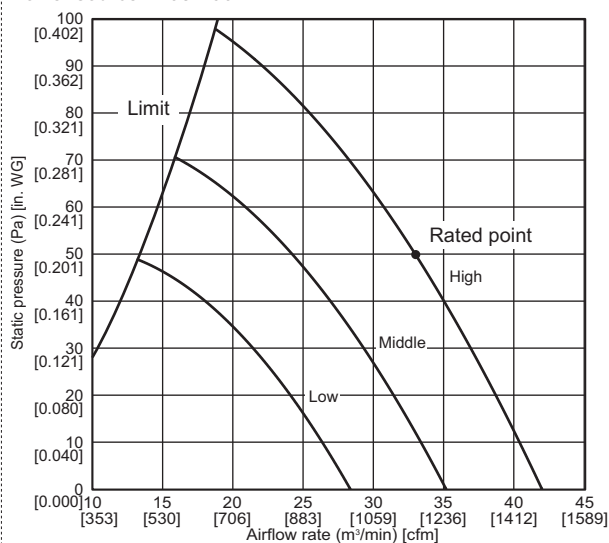
Power source : 208-230V



PEFY-P36NMAU-E

External static pressure : 50Pa [0.201in.WG]

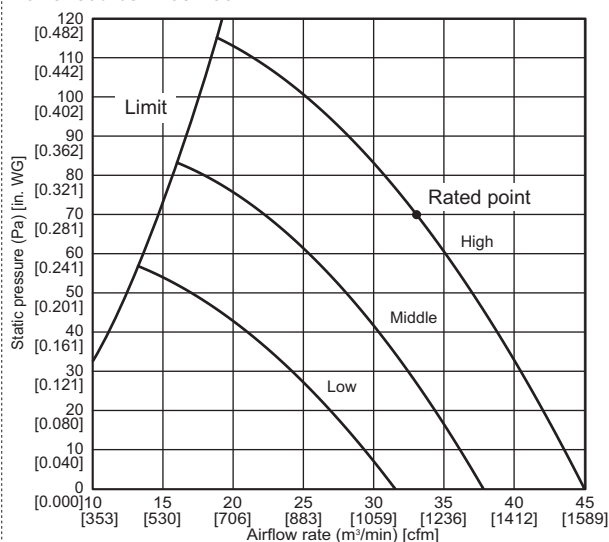
Power source : 208-230V



PEFY-P36NMAU-E

External static pressure : 70Pa [0.281in.WG]

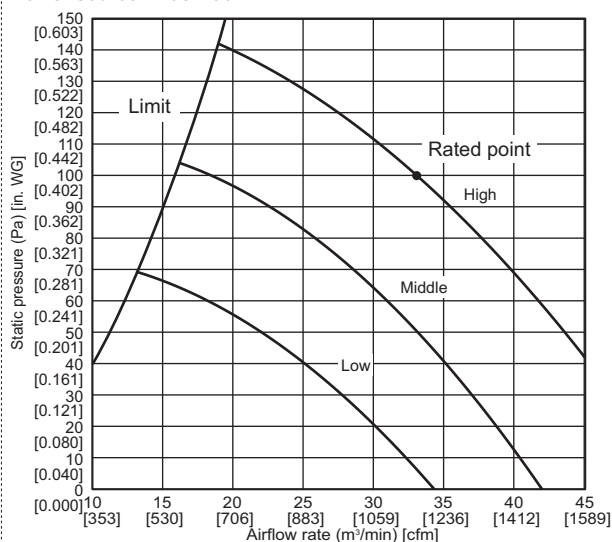
Power source : 208-230V



PEFY-P36NMAU-E

External static pressure : 100Pa [0.402in.WG]

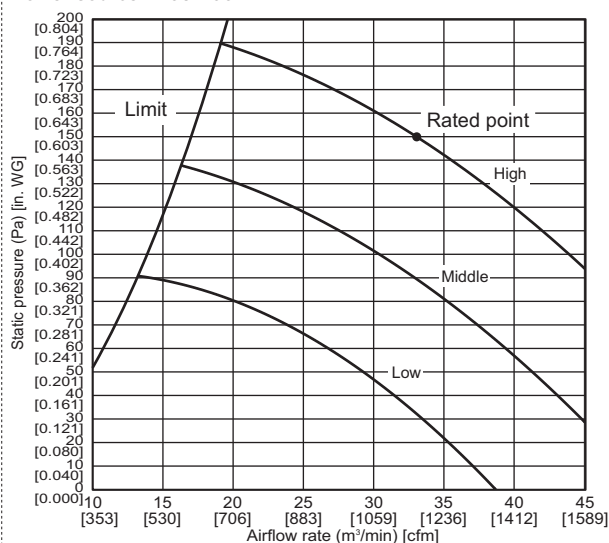
Power source : 208-230V



PEFY-P36NMAU-E

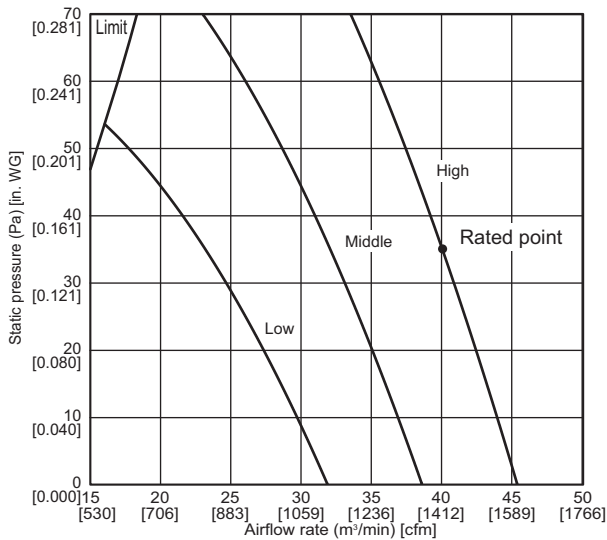
External static pressure : 150Pa [0.603in.WG]

Power source : 208-230V



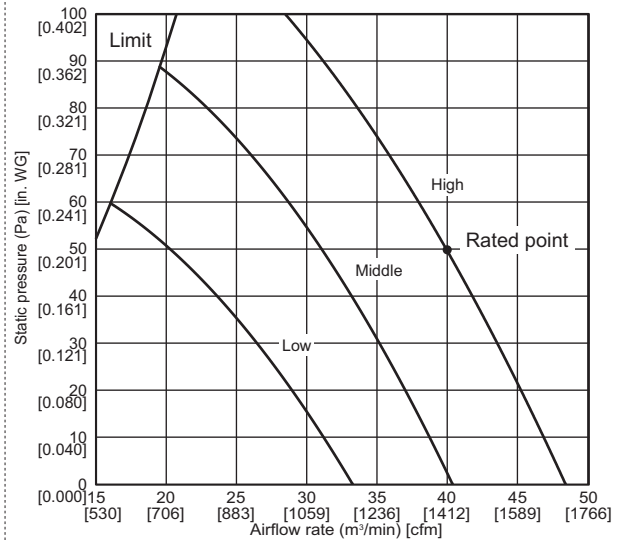
PEFY-P48NMAU-E

External static pressure : 35Pa [0.141in.WG]
Power source : 208-230V



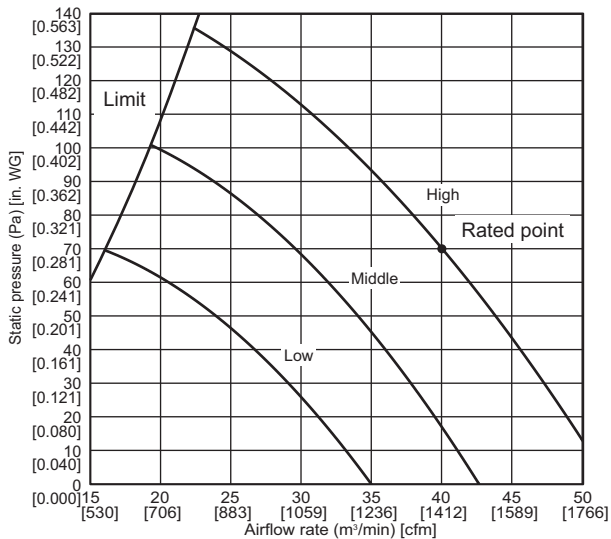
PEFY-P48NMAU-E

External static pressure : 50Pa [0.201in.WG]
Power source : 208-230V



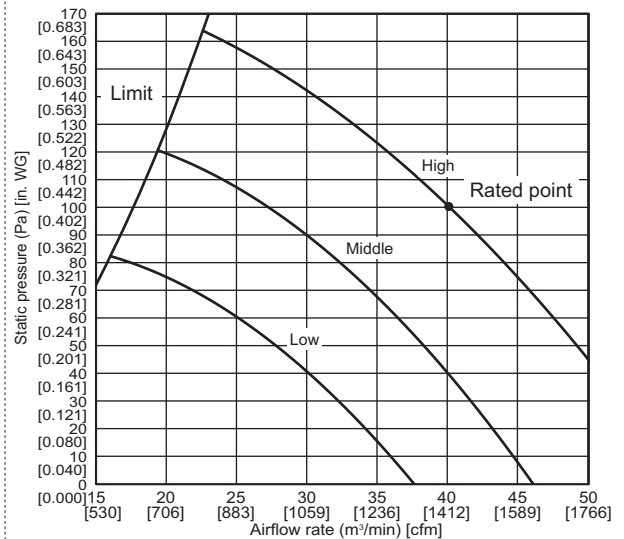
PEFY-P48NMAU-E

External static pressure : 70Pa [0.281in.WG]
Power source : 208-230V



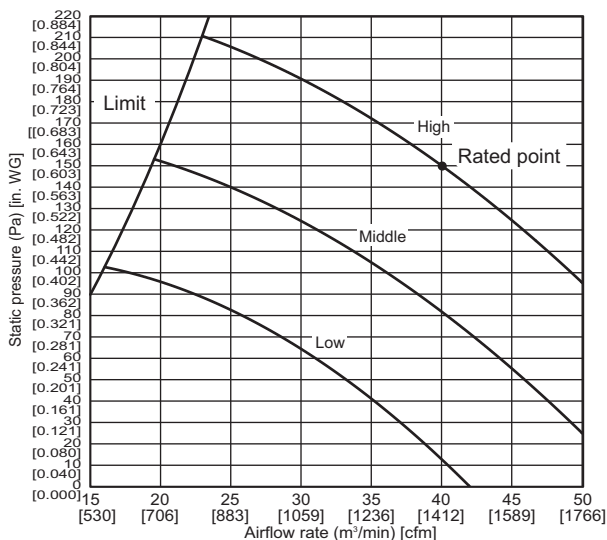
PEFY-P48NMAU-E

External static pressure : 100Pa [0.402in.WG]
Power source : 208-230V



PEFY-P48NMAU-E

External static pressure : 150Pa [0.603in.WG]
Power source : 208-230V



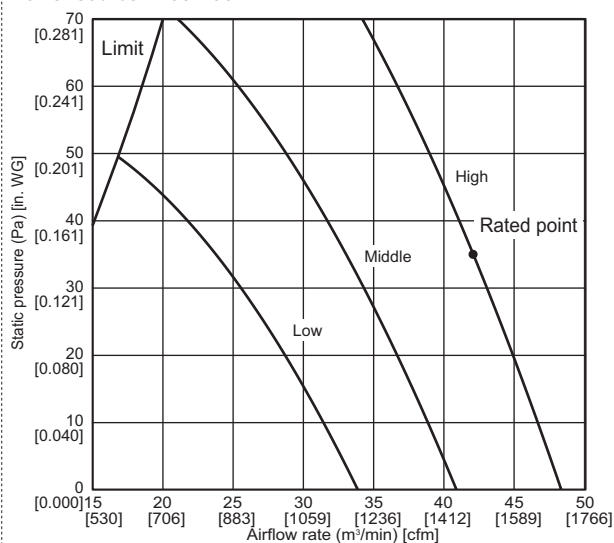
6. FAN CHARACTERISTICS CURVES

DATA U6-2

PEFY-P54NMAU-E

External static pressure : 35Pa [0.141in.WG]

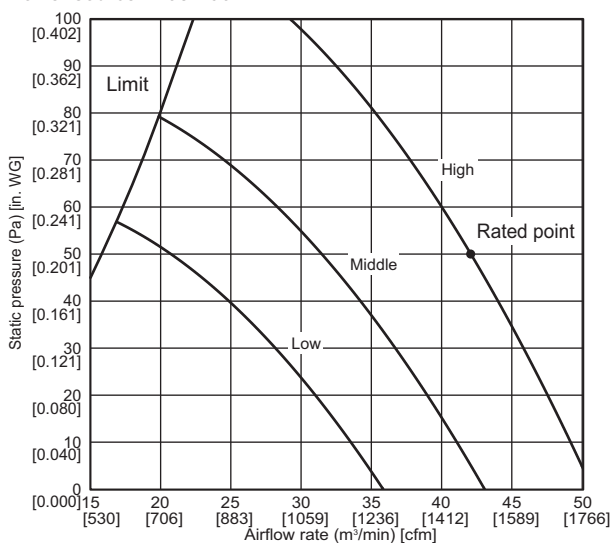
Power source : 208-230V



PEFY-P54NMAU-E

External static pressure : 50Pa [0.201in.WG]

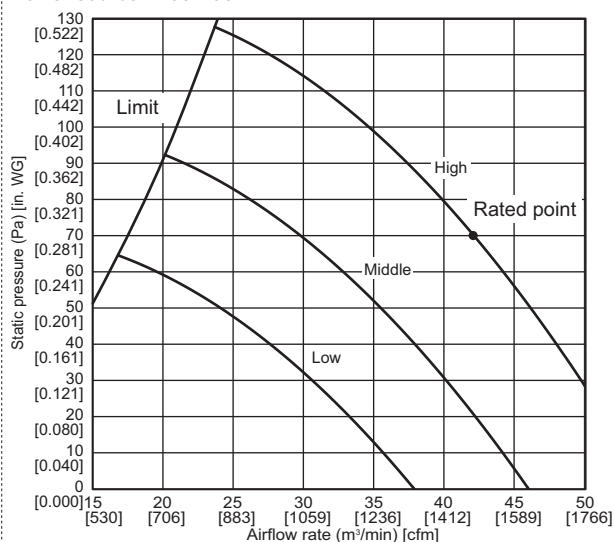
Power source : 208-230V



PEFY-P54NMAU-E

External static pressure : 70Pa [0.281in.WG]

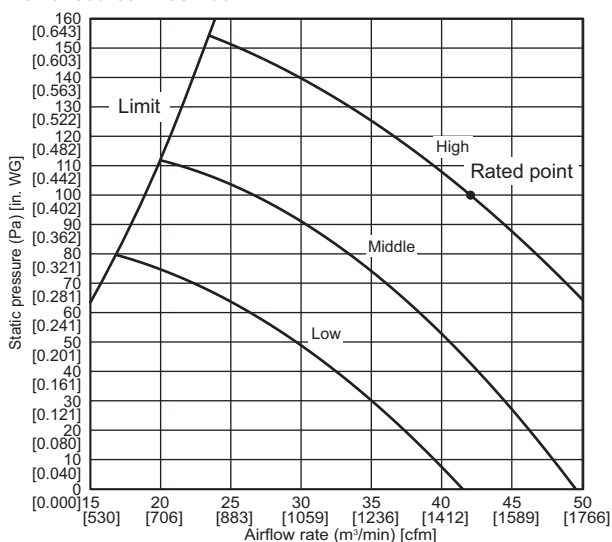
Power source : 208-230V



PEFY-P54NMAU-E

External static pressure : 100Pa [0.402in.WG]

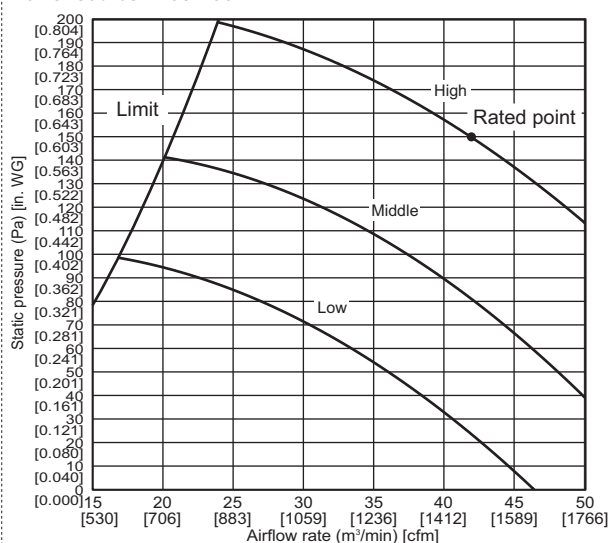
Power source : 208-230V



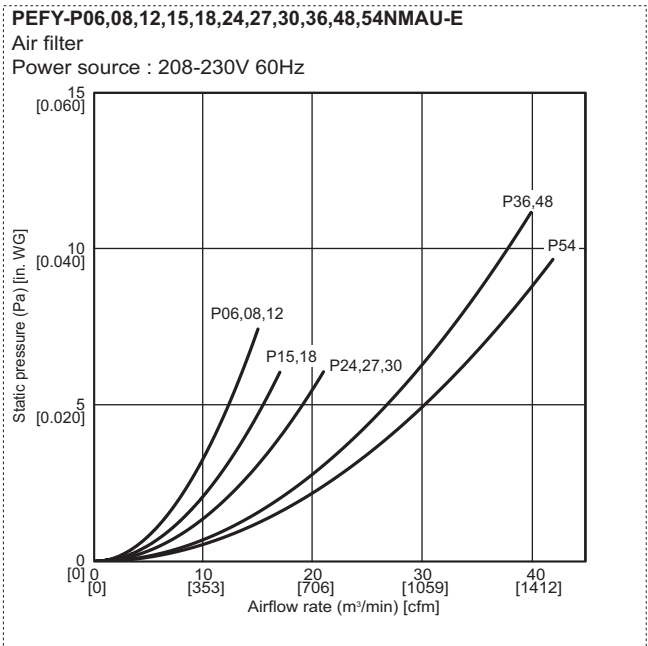
PEFY-P54NMAU-E

External static pressure : 150Pa [0.603in.WG]

Power source : 208-230V

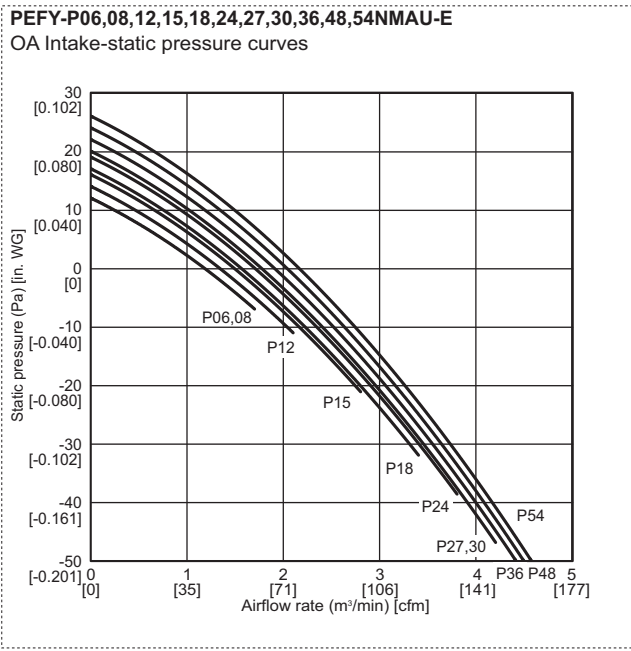


Air filter static pressure cuves



PEFY-NMAU

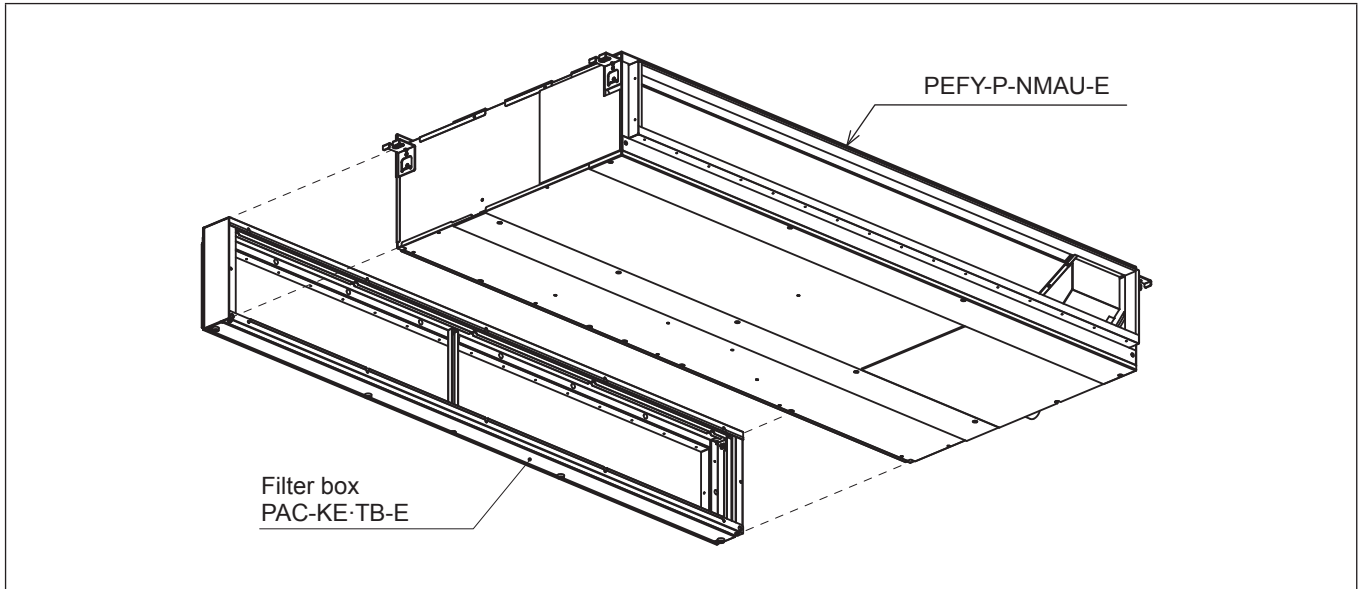
PEFY-NMAU



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

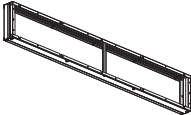
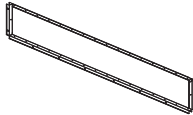
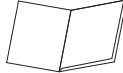
	Filter box	External heater adapter
PEFY-P06, 08, 12NMAU-E	PAC-KE91TB-E	PAC-YU25HT
PEFY-P15, 18NMAU-E	PAC-KE92TB-E	PAC-YU25HT
PEFY-P24, 27, 30NMAU-E	PAC-KE93TB-E	PAC-YU25HT
PEFY-P36, 48NMAU-E	PAC-KE94TB-E	PAC-YU25HT
PEFY-P54NMAU-E	PAC-KE95TB-E	PAC-YU25HT

● PEFY-P-NMAU-E



8-2. 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 (WT05704X01)

8-3. External heater adapter

PEFY-NMAU

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

Remote control board

Relay circuit

Adapter

Indoor unit control board

Outdoor unit control board

For relay X use the specifications given below Operation coil
Rated voltage : 12VDC
Power consumption : 0.9W 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

FS1, 2 ----- Thermal fuse
H1, H2 ----- Electric heater
26H ----- Overheat protection thermostat
X ----- Relay (Electromagnetic contactor)

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. (WT05383X02)

MITSUBISHI ELECTRIC CORPORATION

INDOOR UNITS

1 - 58