MITSUBISHI ELECTRIC

Changes for the Better

AIR CONDITIONING SYSTEMS

CITY MULTI

DATA BOOK

MODEL

PEFY-M-NMSU-A

CONTENTS

PEFY-M-NMSU-A

SPECIFICATIONS OF Air Conditioner (Ceiling-concealed TYPE)			
MODEL			PEFY-M06NMSU-A
Power source			1-phase 208/230 V 60 Hz
Cooling capacity	*1	BTU/h	6,000
	*1	kW	1.8
	*2 Power input	kW	0.032
	*2 Current input	A	0.37/0.36
Heating capacity	*3	BTU/h	6,700
	*3	kW	2.0
	*2 Power input	kW	0.030
	*2 Current input	A	0.32/0.31
External finish			Galvanized steel plate
External dimension HxWxD		inch	7-7/8 x 31-1/8 x 27-9/16
		mm	200 x 790 x 700
Net weight		lbs (kg)	42 (19)
Heat exchanger			Cross fin (Aluminum fin and copper tube)
FAN	Type x Quantity		Sirocco fan x 2
	External	in.WG	<0.02> - 0.06 - <0.14> - <0.20>
	*4 static press.	Pa	<5> - 15 - <35> - <50>
	Motor Type		DC motor
	Motor output	kW	0.096
	Driving mechanism		Direct-driven by motor
	Air flow rate		(Low-Mid-High)
		cfm	176 - 212 - 247
		m^3/min	5.0 - 6.0 - 7.0
		L/s	83 - 100 - 117
Sound pressure level (measured in anechoic room)	*2	dB〈A〉	(Low-Mid-High) 22-24-28
Insulation material			Polystyrene foam, Polyethylene foam, Urethane foam
Air filter			PP honeycomb fabric.
Protection device			Fuse
Refrigerant control device			LEV
Connectable outdoor unit			R32/R454B CITY MULTI
Diameter of refrigerant pipe	Liquid	inch (mm)	1/4 (6.35)Brazed
	Gas	inch (mm)	1/2 (12.7)Brazed
Field drain pipe size		inch (mm)	O.D.1-1/4 (32)
Drawing	External		VG01T396
	Wiring		VG01T397
	Refrigerant cycle		-
Standard attachment	Document		Installation Manual, Instruction Book
	Accessory		Washer, Drain socket, Tie band
Optional parts	External heater adapter		PAC-YU25HT

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
Indoor: 80 ˚ FD.B./67 ˚ FW.B. (26.7 ˚ CD.B./19.4 ˚ CW.B.), Outdoor: 95 ˚ FD.B. (35 ˚ CD.B.)
Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)

2.The values are measured at the factory setting of external static pressure.

3.Nominal heating conditions
Indoor: 70 ˚ FD.B. (21.1 ˚ CD.B.), Outdoor: 47 ˚ FD.B./43 ˚ FW.B. (8.3 ˚ CD.B./6.1 ˚ CW.B.)
Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)

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.

Unit converter

BTU/h =kW x 3,412
cfm =m^3/min x 35.31
lbs =kg/0.4536

*Above specification data is subject to rounding variation.

SPECIFICATIONS OF Air Conditioner (Ceiling-concealed TYPE)			
MODEL			**PEFY-M08NMSU-A**
Power source			1-phase 208/230 V 60 Hz
Cooling capacity	*1	BTU/h	8,000
	*1	kW	2.3
*2	Power input	kW	0.044
*2	Current input	A	0.49/0.44
Heating capacity	*3	BTU/h	9,000
	*3	kW	2.6
*2	Power input	kW	0.042
*2	Current input	A	0.44/0.39
External finish			Galvanized steel plate
External dimension HxWxD		inch	7-7/8 x 31-1/8 x 27-9/16
		mm	200 x 790 x 700
Net weight		lbs (kg)	43 (19.5)
Heat exchanger			Cross fin (Aluminum fin and copper tube)
FAN	Type x Quantity		Sirocco fan x 2
	External	in.WG	<0.02> - 0.06 - <0.14> - <0.20>
*4	static press.	Pa	<5> - 15 - <35> - <50>
	Motor Type		DC motor
	Motor output	kW	0.096
	Driving mechanism		Direct-driven by motor
	Air flow rate		(Low-Mid-High)
		cfm	194 - 247 - 317
		m^3/min	5.5 - 7.0 - 9.0
		L/s	92 - 117 - 150
Sound pressure level (measured in anechoic room)	*2	dB 〈A〉	(Low-Mid-High) 23-26-30
Insulation material			Polystyrene foam, Polyethylene foam, Urethane foam
Air filter			PP honeycomb fabric.
Protection device			Fuse
Refrigerant control device			LEV
Connectable outdoor unit			R32/R454B CITY MULTI
Diameter of refrigerant pipe	Liquid	inch (mm)	1/4 (6.35)Brazed
	Gas	inch (mm)	1/2 (12.7)Brazed
Field drain pipe size		inch (mm)	O.D.1-1/4 (32)
Drawing	External		VG01T396
	Wiring		VG01T397
	Refrigerant cycle		-
Standard attachment	Document		Installation Manual, Instruction Book
	Accessory		Washer, Drain socket, Tie band
Optional parts	External heater adapter		PAC-YU25HT

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
Indoor: 80 ˚ FD.B./67 ˚ FW.B. (26.7 ˚ CD.B./19.4 ˚ CW.B.), Outdoor: 95 ˚ FD.B. (35 ˚ CD.B.)
Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)
2.The values are measured at the factory setting of external static pressure.
3.Nominal heating conditions
Indoor: 70 ˚ FD.B. (21.1 ˚ CD.B.), Outdoor: 47 ˚ FD.B./43 ˚ FW.B. (8.3 ˚ CD.B./6.1 ˚ CW.B.)
Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)
4.The factory setting of external static pressure is shown without < >.
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.
5.Auxiliary devices which may be a potential ignition source shall not be installed in the duct work.
Examples of such potential ignition sources are hot surfaces with a temperature exceeding 700°C [1292°F] and electric switching devices.

Unit converter
BTU/h =kW x 3,412
cfm =m^3/min x 35.31
lbs =kg/0.4536

*Above specification data is subject to rounding variation.

SPECIFICATIONS OF Air Conditioner (Ceiling-concealed TYPE)			
MODEL			PEFY-M12NMSU-A
Power source			1-phase 208/230 V 60 Hz
Cooling capacity	*1	BTU/h	12,000
	*1	kW	3.5
	*2 Power input	kW	0.064
	*2 Current input	A	0.67/0.63
Heating capacity	*3	BTU/h	13,500
	*3	kW	4.0
	*2 Power input	kW	0.062
	*2 Current input	A	0.62/0.58
External finish			Galvanized steel plate
External dimension HxWxD		inch	7-7/8 x 31-1/8 x 27-9/16
		mm	200 x 790 x 700
Net weight		lbs (kg)	45 (20)
Heat exchanger			Cross fin (Aluminum fin and copper tube)
FAN	Type x Quantity		Sirocco fan x 2
	External	in.WG	<0.02> - 0.06 - <0.14> - <0.20>
	*4 static press.	Pa	<5> - 15 - <35> - <50>
	Motor Type		DC motor
	Motor output	kW	0.096
	Driving mechanism		Direct-driven by motor
	Air flow rate		(Low-Mid-High)
		cfm	211 - 282 - 370
		m^3/min	6.0 - 8.0 - 10.5
		L/s	100 - 133 - 175
Sound pressure level			(Low-Mid-High)
(measured in anechoic room)	*2	dB 〈A〉	23-28-34
Insulation material			Polystyrene foam, Polyethylene foam, Urethane foam
Air filter			PP honeycomb fabric.
Protection device			Fuse
Refrigerant control device			LEV
Connectable outdoor unit			R32/R454B CITY MULTI
Diameter of refrigerant pipe	Liquid	inch (mm)	1/4 (6.35)Brazed
	Gas	inch (mm)	1/2 (12.7)Brazed
Field drain pipe size		inch (mm)	O.D.1-1/4 (32)
Drawing	External		VG01T396
	Wiring		VG01T397
	Refrigerant cycle		-
Standard attachment	Document		Installation Manual, Instruction Book
	Accessory		Washer, Drain socket, Tie band
Optional parts	External heater adapter		PAC-YU25HT

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
Indoor: 80 ˚ FD.B./67 ˚ FW.B. (26.7 ˚ CD.B./19.4 ˚ CW.B.), Outdoor: 95 ˚ FD.B. (35 ˚ CD.B.)
Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)
2.The values are measured at the factory setting of external static pressure.
3.Nominal heating conditions
Indoor: 70 ˚ FD.B. (21.1 ˚ CD.B.), Outdoor: 47 ˚ FD.B./43 ˚ FW.B. (8.3 ˚ CD.B./6.1 ˚ CW.B.)
Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)
4.The factory setting of external static pressure is shown without < >.
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.
5.Auxiliary devices which may be a potential ignition source shall not be installed in the duct work.
Examples of such potential ignition sources are hot surfaces with a temperature exceeding 700°C [1292°F] and electric switching devices.

Unit converter

BTU/h =kW x 3,412
cfm =m^3/min x 35.31
lbs =kg/0.4536

*Above specification data is subject to rounding variation.

SPECIFICATIONS OF Air Conditioner (Ceiling-concealed TYPE)			
MODEL			**PEFY-M15NMSU-A**
Power source			1-phase 208/230 V 60 Hz
Cooling capacity	*1	BTU/h	15,000
	*1	kW	4.4
*2	Power input	kW	0.052
*2	Current input	A	0.54/0.50
Heating capacity	*3	BTU/h	17,000
	*3	kW	5.0
*2	Power input	kW	0.050
*2	Current input	A	0.49/0.45
External finish			Galvanized steel plate
External dimension HxWxD		inch	7-7/8 x 39 x 27-9/16
		mm	200 x 990 x 700
Net weight		lbs (kg)	53 (24)
Heat exchanger			Cross fin (Aluminum fin and copper tube)
FAN	Type x Quantity		Sirocco fan x 3
	External	in.WG	<0.02> - 0.06 - <0.14> - <0.20>
*4	static press.	Pa	<5> - 15 - <35> - <50>
	Motor Type		DC motor
	Motor output	kW	0.096
	Driving mechanism		Direct-driven by motor
	Air flow rate		(Low-Mid-High)
		cfm	282 - 335 - 388
		m^3/min	8.0 - 9.5 - 11.0
		L/s	133 - 158 - 183
Sound pressure level			(Low-Mid-High)
(measured in anechoic room)	*2	dB 〈A〉	28-30-33
Insulation material			Polystyrene foam, Polyethylene foam, Urethane foam
Air filter			PP honeycomb fabric.
Protection device			Fuse
Refrigerant control device			LEV
Connectable outdoor unit			R32/R454B CITY MULTI
Diameter of refrigerant pipe	Liquid	inch (mm)	1/4 (6.35)Brazed
	Gas	inch (mm)	1/2 (12.7)Brazed
Field drain pipe size		inch (mm)	O.D.1-1/4 (32)
Drawing	External		VG01T396
	Wiring		VG01T397
	Refrigerant cycle		-
Standard attachment	Document		Installation Manual, Instruction Book
	Accessory		Washer, Drain socket, Tie band
Optional parts	External heater adapter		PAC-YU25HT

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
Indoor: 80 ˚ FD.B./67 ˚ FW.B. (26.7 ˚ CD.B./19.4 ˚ CW.B.), Outdoor: 95 ˚ FD.B. (35 ˚ CD.B.)
Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)
2.The values are measured at the factory setting of external static pressure.
3.Nominal heating conditions
Indoor: 70 ˚ FD.B. (21.1 ˚ CD.B.), Outdoor: 47 ˚ FD.B./43 ˚ FW.B. (8.3 ˚ CD.B./6.1 ˚ CW.B.)
Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)
4.The factory setting of external static pressure is shown without < >.
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.
5.Auxiliary devices which may be a potential ignition source shall not be installed in the duct work.
Examples of such potential ignition sources are hot surfaces with a temperature exceeding 700°C [1292°F] and electric switching devices.

Unit converter
BTU/h =kW x 3,412
cfm =m^3/min x 35.31
lbs =kg/0.4536

*Above specification data is subject to rounding variation.

SPECIFICATIONS OF Air Conditioner (Ceiling-concealed TYPE)			
MODEL			PEFY-M18NMSU-A
Power source			1-phase 208/230 V 60 Hz
Cooling capacity	*1	BTU/h	18,000
	*1	kW	5.3
	*2 Power input	kW	0.082
	*2 Current input	A	0.75/0.71
Heating capacity	*3	BTU/h	20,000
	*3	kW	5.9
	*2 Power input	kW	0.080
	*2 Current input	A	0.70/0.66
External finish			Galvanized steel plate
External dimension HxWxD		inch	7-7/8 x 39 x 27-9/16
		mm	200 x 990 x 700
Net weight		lbs (kg)	53 (24)
Heat exchanger			Cross fin (Aluminum fin and copper tube)
FAN	Type x Quantity		Sirocco fan x 3
	External	in.WG	<0.02> - 0.06 - <0.14> - <0.20>
	*4 static press.	Pa	<5> - 15 - <35> - <50>
	Motor Type		DC motor
	Motor output	kW	0.096
	Driving mechanism		Direct-driven by motor
	Air flow rate		(Low-Mid-High)
		cfm	353 - 441 - 529
		m^3/min	10.0 - 12.5 - 15.0
		L/s	167 - 208 - 250
Sound pressure level			(Low-Mid-High)
(measured in anechoic room)	*2	dB 〈A〉	30-34-37
Insulation material			Polystyrene foam, Polyethylene foam, Urethane foam
Air filter			PP honeycomb fabric.
Protection device			Fuse
Refrigerant control device			LEV
Connectable outdoor unit			R32/R454B CITY MULTI
Diameter of refrigerant pipe	Liquid	inch (mm)	1/4 (6.35)Brazed
	Gas	inch (mm)	1/2 (12.7)Brazed
Field drain pipe size		inch (mm)	O.D.1-1/4 (32)
Drawing	External		VG01T396
	Wiring		VG01T397
	Refrigerant cycle		-
Standard attachment	Document		Installation Manual, Instruction Book
	Accessory		Washer, Drain socket, Tie band
Optional parts	External heater adapter		PAC-YU25HT

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
Indoor: 80 ˚ FD.B./67 ˚ FW.B. (26.7 ˚ CD.B./19.4 ˚ CW.B.), Outdoor: 95 ˚ FD.B. (35 ˚ CD.B.)
Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)

2.The values are measured at the factory setting of external static pressure.

3.Nominal heating conditions
Indoor: 70 ˚ FD.B. (21.1 ˚ CD.B.), Outdoor: 47 ˚ FD.B./43 ˚ FW.B. (8.3 ˚ CD.B./6.1 ˚ CW.B.)
Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)

4.The factory setting of external static pressure is shown without < >.
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.

5.Auxiliary devices which may be a potential ignition source shall not be installed in the duct work.
Examples of such potential ignition sources are hot surfaces with a temperature exceeding 700°C [1292°F] and electric switching devices.

Unit converter

BTU/h =kW x 3,412
cfm =m^3/min x 35.31
lbs =kg/0.4536

*Above specification data is subject to rounding variation.

SPECIFICATIONS OF Air Conditioner (Ceiling-concealed TYPE)			
MODEL			**PEFY-M24NMSU-A**
Power source			1-phase 208/230 V 60 Hz
Cooling capacity	*1	BTU/h	24,000
	*1	kW	7.0
*2	Power input	kW	0.102
*2	Current input	A	0.87/0.81
Heating capacity	*3	BTU/h	27,000
	*3	kW	7.9
*2	Power input	kW	0.100
*2	Current input	A	0.82/0.76
External finish			Galvanized steel plate
External dimension HxWxD		inch	7-7/8 x 46-7/8 x 27-9/16
		mm	200 x 1,190 x 700
Net weight		lbs (kg)	60 (27)
Heat exchanger			Cross fin (Aluminum fin and copper tube)
FAN	Type x Quantity		Sirocco fan x 4
	External	in.WG	<0.02> - 0.06 - <0.14> - <0.20>
*4	static press.	Pa	<5> - 15 - <35> - <50>
	Motor Type		DC motor
	Motor output	kW	0.096
	Driving mechanism		Direct-driven by motor
	Air flow rate		(Low-Mid-High)
		cfm	423 - 565 - 706
		m^3/min	12.0 - 16.0 - 20.0
		L/s	200 - 267 - 333
Sound pressure level			(Low-Mid-High)
(measured in anechoic room)	*2	dB 〈A〉	30-35-40
Insulation material			Polystyrene foam, Polyethylene foam, Urethane foam
Air filter			PP honeycomb fabric.
Protection device			Fuse
Refrigerant control device			LEV
Connectable outdoor unit			R32/R454B CITY MULTI
Diameter of refrigerant pipe	Liquid	inch (mm)	3/8 (9.52)Brazed
	Gas	inch (mm)	5/8 (15.88)Brazed
Field drain pipe size		inch (mm)	O.D.1-1/4 (32)
Drawing	External		VG01T396
	Wiring		VG01T397
	Refrigerant cycle		-
Standard attachment	Document		Installation Manual, Instruction Book
	Accessory		Washer, Drain socket, Tie band
Optional parts	External heater adapter		PAC-YU25HT

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
Indoor: 80 ˚ FD.B./67 ˚ FW.B. (26.7 ˚ CD.B./19.4 ˚ CW.B.), Outdoor: 95 ˚ FD.B. (35 ˚ CD.B.)
Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)
2.The values are measured at the factory setting of external static pressure.
3.Nominal heating conditions
Indoor: 70 ˚ FD.B. (21.1 ˚ CD.B.), Outdoor: 47 ˚ FD.B./43 ˚ FW.B. (8.3 ˚ CD.B./6.1 ˚ CW.B.)
Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)
4.The factory setting of external static pressure is shown without < >.
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.
5.Auxiliary devices which may be a potential ignition source shall not be installed in the duct work.
Examples of such potential ignition sources are hot surfaces with a temperature exceeding 700°C [1292°F] and electric switching devices.

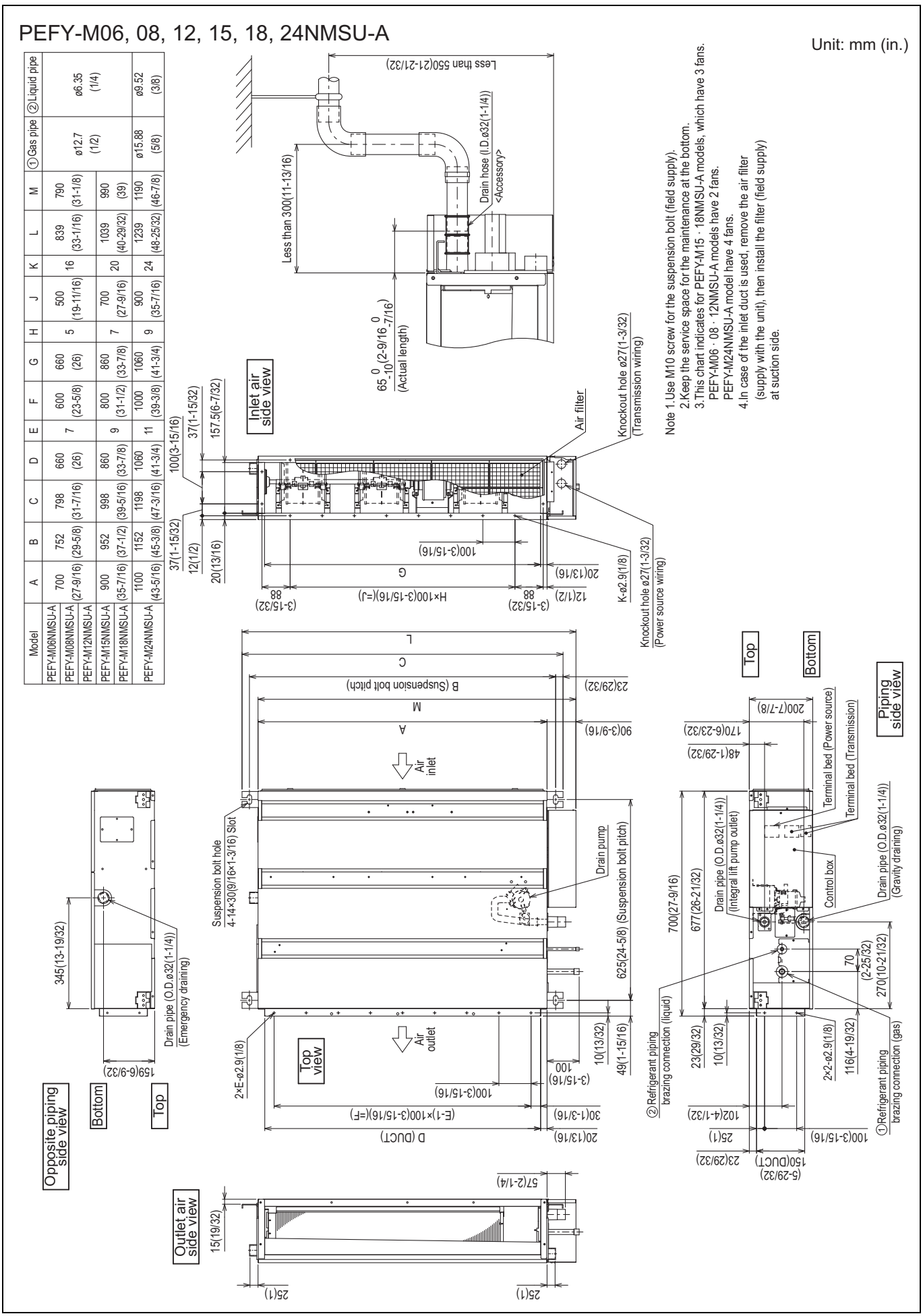
Unit converter
BTU/h =kW x 3,412
cfm =m^3/min x 35.31
lbs =kg/0.4536

*Above specification data is subject to rounding variation.

PEFY-M06, 08, 12, 15, 18, 24NMSU-A

Unit: mm (in.)

Model	A	B	C	D	E	F	G	H	J	K	L	M	①Gas pipe	②Liquid pipe
PEFY-M06NMSU-A	700 (27-9/16)	752 (29-5/8)	798 (31-7/16)	660 (26)	7	600 (23-5/8)	660 (26)	5	500 (19-11/16)	16	839 (33-1/16)	790 (31-1/8)	ø12.7 (1/2)	ø6.35 (1/4)
PEFY-M08NMSU-A														
PEFY-M12NMSU-A											1039 (40-29/32)	990 (39)		
PEFY-M15NMSU-A	900 (35-7/16)	952 (37-1/2)	998 (39-5/16)	860 (33-7/8)	9	800 (31-1/2)	860 (33-7/8)	7	700 (27-9/16)	20				
PEFY-M18NMSU-A														
PEFY-M24NMSU-A	1100 (43-5/16)	1152 (45-3/8)	1198 (47-3/16)	1060 (41-3/4)	11	1000 (39-3/8)	1060 (41-3/4)	9	900 (35-7/16)	24	1239 (48-25/32)	1190 (46-7/8)	ø15.88 (5/8)	ø9.52 (3/8)



PEFY-M06, 08, 12, 15, 18, 24NMSU-A

Unit: mm (in.)

Model	N	P	Q	R
PEFY-M06NMSU-A	700 (27-9/16)	50~150 (1-31/32~5-29/32)	800 (31-1/2)	1300 (51-3/16)
PEFY-M08NMSU-A				
PEFY-M12NMSU-A				
PEFY-M15NMSU-A	900 (35-7/16)	150~250 (5-29/32~9-27/32)	1000 (39-3/8)	1500 (59-1/16)
PEFY-M18NMSU-A				
PEFY-M24NMSU-A	1100 (43-5/16)	250~350 (9-27/32~13-25/32)	1200 (47-1/4)	1700 (66-15/16)

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

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

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

Fig.1

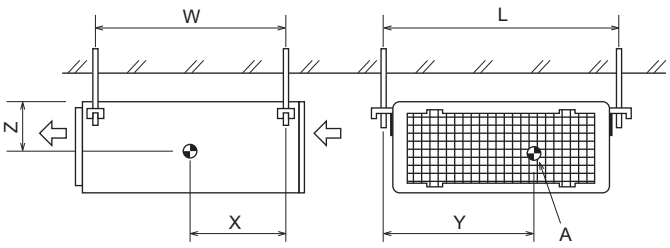
Fig.3

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

(1) When a space of 300mm(11-13/16) or more is available below the unit between the unit and the ceiling. (Fig.1)
- Create access door 1 and 2 (450×450mm(17-23/32×17-23/32) 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(11-13/16) is available below the unit between the unit and the ceiling.
(At least 20mm(13/16) 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.

PEFY-M06, 08, 12, 15, 18, 24NMSU-A



A: Center of gravity

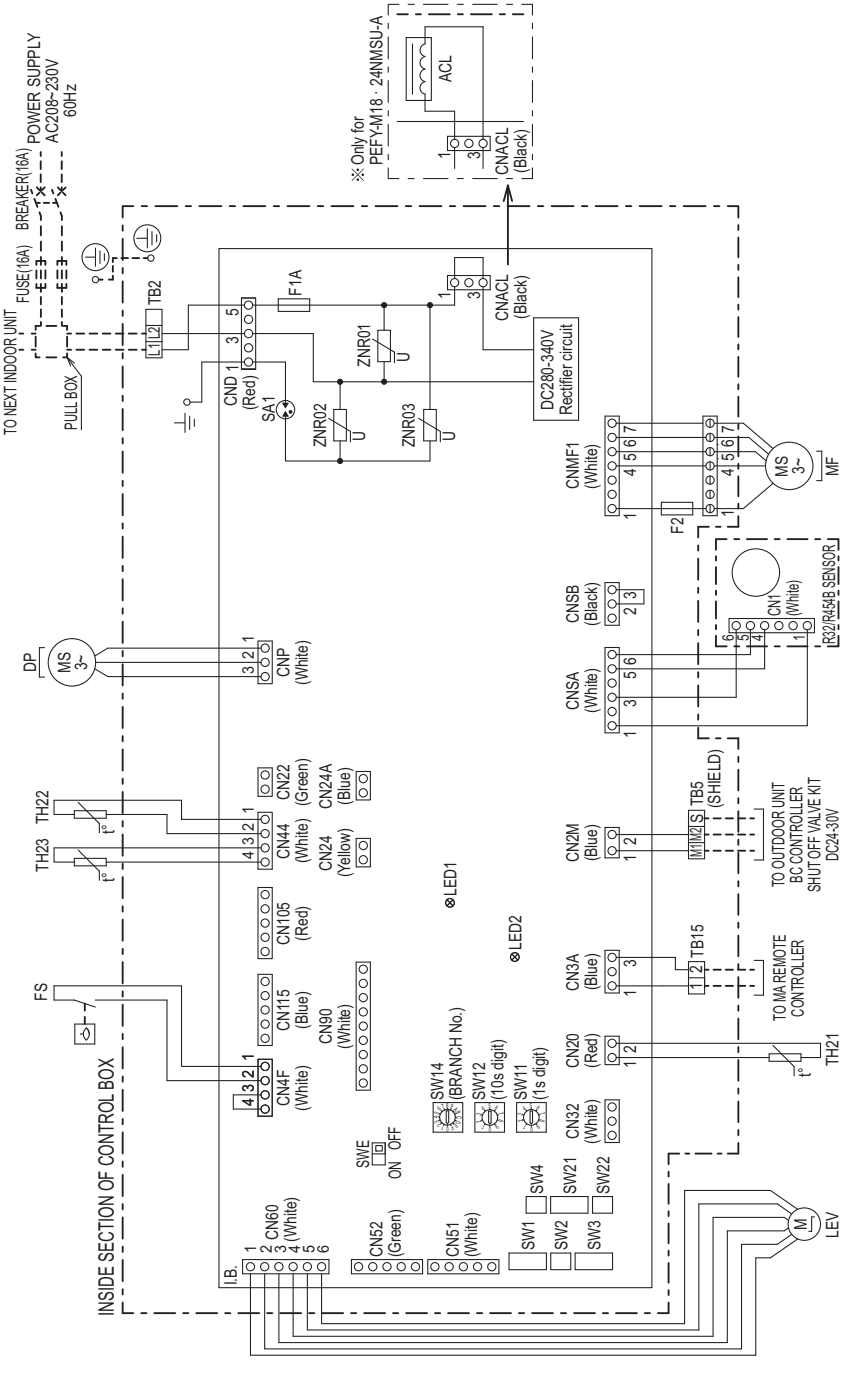
(mm) [in]

Model name	W	L	X	Y	Z
PEFY-M06NMSU-A	625 [24-5/8]	752 [29-5/8]	263 [10-3/8]	338 [13-5/16]	105 [4-5/32]
PEFY-M08NMSU-A	625 [24-5/8]	752 [29-5/8]	263 [10-3/8]	338 [13-5/16]	105 [4-5/32]
PEFY-M12NMSU-A	625 [24-5/8]	752 [29-5/8]	275 [10-27/32]	340 [13-13/32]	104 [4-1/8]
PEFY-M15NMSU-A	625 [24-5/8]	952 [37-1/2]	280 [11-1/32]	422 [16-5/8]	104 [4-1/8]
PEFY-M18NMSU-A	625 [24-5/8]	952 [37-1/2]	280 [11-1/32]	422 [16-5/8]	104 [4-1/8]
PEFY-M24NMSU-A	625 [24-5/8]	1152 [45-3/8]	285 [11-1/4]	511 [20-1/8]	104 [4-1/8]

PEFY-M06, 08, 12, 15, 18, 24NMSU-A

SYMBOL EXPLANATION

SYMBOL	NAME
ACL	AC reactor (Power factor improvement)
DP	Drain Pump
FS	Float switch
F2	Fuse DC400 1A
MF	Fan Motor
LEV	Electrical linear expansion valve
TB2	Power source terminal block
TB5	Transmission terminal block
TB15	Transmission terminal block
TH21	Thermistor (inlet air temp. detection)
TH22	Thermistor (piping temp.detection/liquid)
TH23	Thermistor (piping temp.detection/gas)
I.B.	Indoor controller board
SA1	Arrester
F1A	Fuse AC250V 3.15A
ZNR01	Varistor
ZNR02	Varistor
ZNR03	Varistor
CN24	Connector (Heater control 1st)
CN24A	Connector (Heater control 2nd)
CN22	Connector (Fan control)
CN32	Connector (Remote switch)
CN51	Connector (Centrally control)
CN52	Connector (Remote indication)
CN90	Connector (Wireless)
CN105	Connector (IT terminal)
CN115	Connector (IT terminal)
SW1	Switch (for mode selection)
SW2	Switch (for capacity code)
SW3	Switch (for mode selection)
SW4	Switch (for model selection)
SW11	Switch (1s digit address set)
SW12	Switch (10s digit address set)
SW14	Switch (BRANCH No.)
SW21	Switch (for mode selection)
SW22	Switch (Wireless pair No.)
SWE	Connector (emergency operation)
LED1	LED (Power supply)
LED2	LED (Remote controller supply)



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

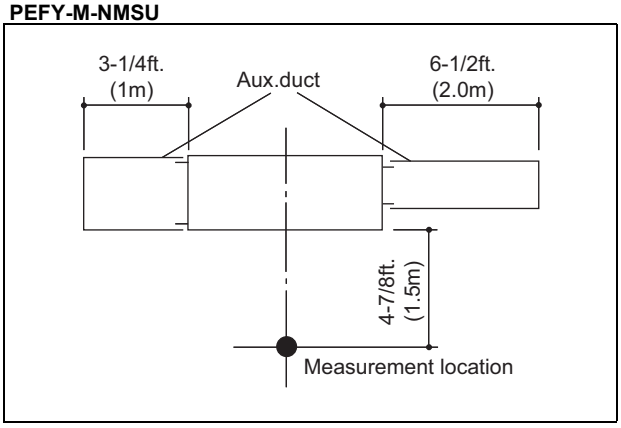
DIP SWITCH DEFINITION
S1:ON
S2:OFF

DIP SWITCH SETTING

MODEL	SW1	SW2	SW3	SW4	SW21	SW22	SWE
PEFY-M06NMSU-A	ON 1 2 3 4 5 6 7 8 9 10	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6 7 8 9 10	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6 7 8	ON 1 2 3 4	ON OFF
PEFY-M08NMSU-A	ON 1 2 3 4 5 6 7 8 9 10	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6 7 8 9 10	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6 7 8	ON 1 2 3 4	ON OFF
PEFY-M12NMSU-A	ON 1 2 3 4 5 6 7 8 9 10	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6 7 8 9 10	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6 7 8	ON 1 2 3 4	ON OFF
PEFY-M15NMSU-A	ON 1 2 3 4 5 6 7 8 9 10	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6 7 8 9 10	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6 7 8	ON 1 2 3 4	ON OFF
PEFY-M18NMSU-A	ON 1 2 3 4 5 6 7 8 9 10	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6 7 8 9 10	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6 7 8	ON 1 2 3 4	ON OFF
PEFY-M24NMSU-A	ON 1 2 3 4 5 6 7 8 9 10	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6 7 8 9 10	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6 7 8	ON 1 2 3 4	ON OFF

5-1. Sound levels

PEFY-M-NMSU



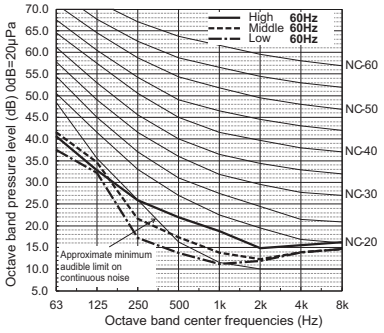
* Measured in anechoic room

Operating sound levels
(Low - Middle - High)
Unit: dB (A)

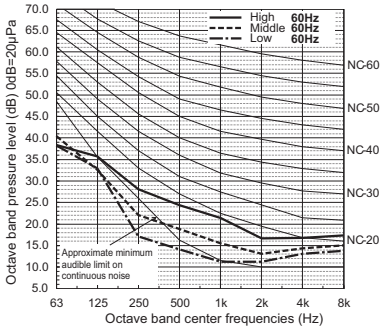
Model	Sound pressure level (A weighted)
PEFY-M06NMSU-A	22 - 24 - 28
PEFY-M08NMSU-A	23 - 26 - 30
PEFY-M12NMSU-A	23 - 28 - 34
PEFY-M15NMSU-A	28 - 30 - 33
PEFY-M18NMSU-A	30 - 34 - 37
PEFY-M24NMSU-A	30 - 35 - 40

5-2. NC curves

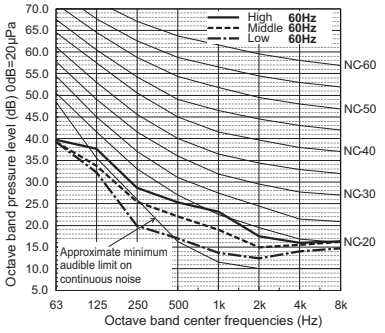
PEFY-M06NMSU-A
External Static Pressure: 5Pa [0.02in.WG]
Power Source: 208-230V



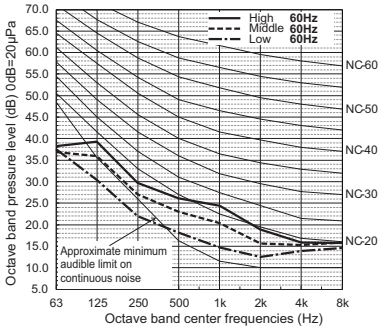
PEFY-M06NMSU-A
External Static Pressure: 15Pa [0.06in.WG]
Power Source: 208-230V



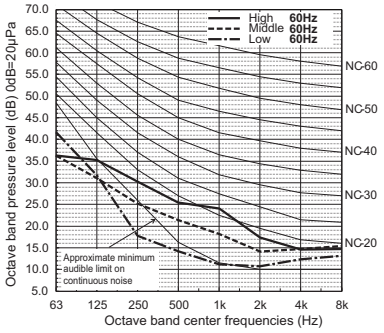
PEFY-M06NMSU-A
External Static Pressure: 35Pa [0.14in.WG]
Power Source: 208-230V



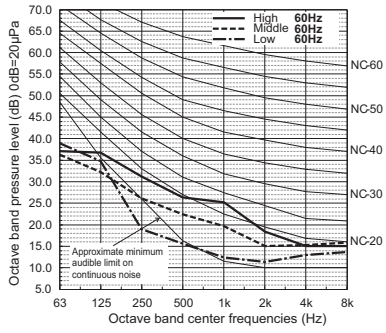
PEFY-M06NMSU-A
External Static Pressure: 50Pa [0.20in.WG]
Power Source: 208-230V



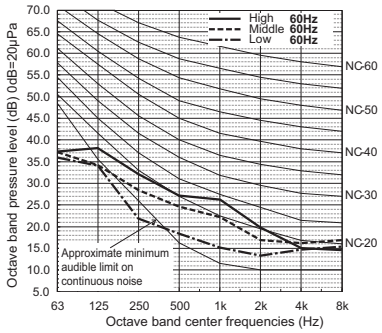
PEFY-M08NMSU-A
External Static Pressure: 5Pa [0.02in.WG]
Power Source: 208-230V



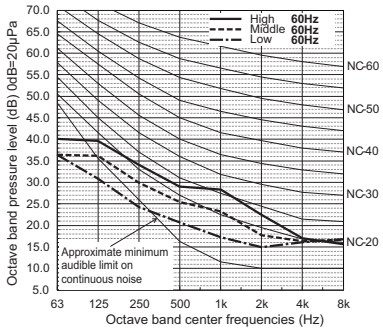
PEFY-M08NMSU-A
External Static Pressure: 15Pa [0.06in.WG]
Power Source: 208-230V



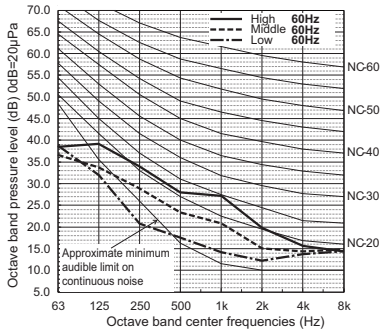
PEFY-M08NMSU-A
External Static Pressure: 35Pa [0.14in.WG]
Power Source: 208-230V



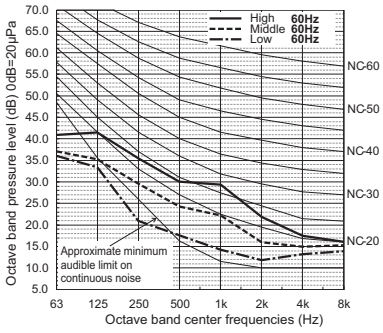
PEFY-M08NMSU-A
External Static Pressure: 50Pa [0.20in.WG]
Power Source: 208-230V



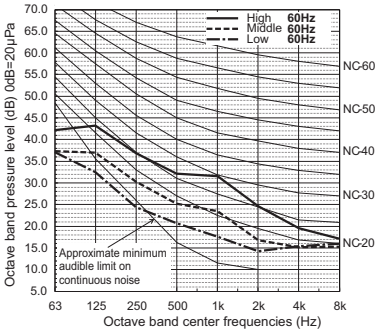
PEFY-M12NMSU-A
External Static Pressure: 5Pa [0.02in.WG]
Power Source: 208-230V



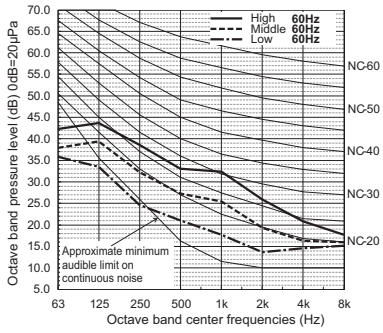
PEFY-M12NMSU-A
External Static Pressure: 15Pa [0.06in.WG]
Power Source: 208-230V



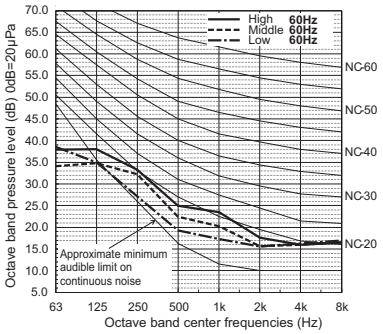
PEFY-M12NMSU-A
External Static Pressure: 35Pa [0.14in.WG]
Power Source: 208-230V



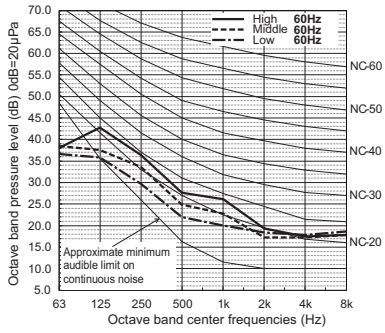
PEFY-M12NMSU-A
External Static Pressure: 50Pa [0.20in.WG]
Power Source: 208-230V



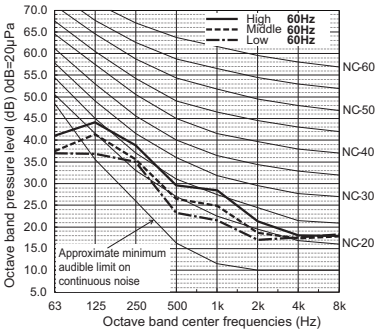
PEFY-M15NMSU-A
External Static Pressure: 5Pa [0.02in.WG]
Power Source: 208-230V



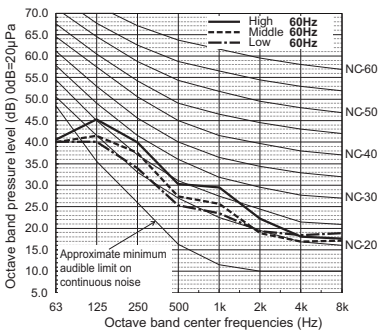
PEFY-M15NMSU-A
External Static Pressure: 15Pa [0.06in.WG]
Power Source: 208-230V



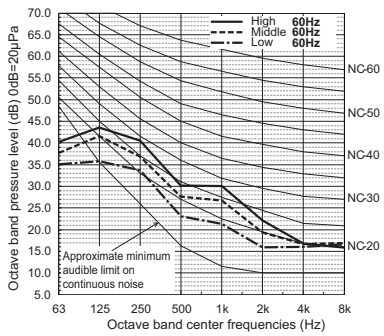
PEFY-M15NMSU-A
External Static Pressure: 35Pa [0.14in.WG]
Power Source: 208-230V



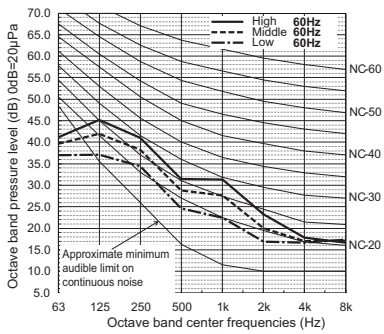
PEFY-M15NMSU-A
External Static Pressure: 50Pa [0.20in.WG]
Power Source: 208-230V



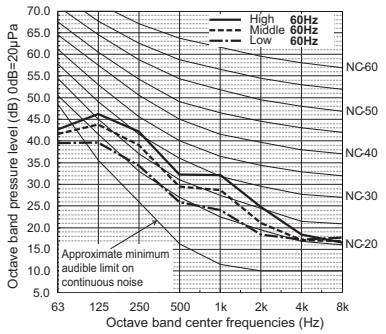
PEFY-M18NMSU-A
External Static Pressure: 5Pa [0.02in.WG]
Power Source: 208-230V



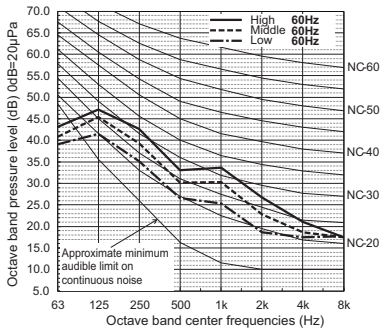
PEFY-M18NMSU-A
External Static Pressure: 15Pa [0.06in.WG]
Power Source: 208-230V



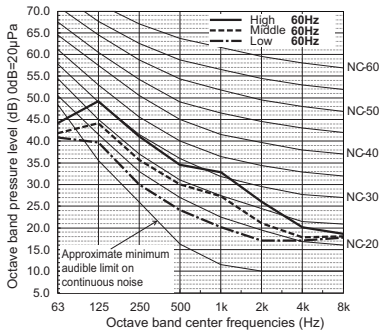
PEFY-M18NMSU-A
External Static Pressure: 35Pa [0.14in.WG]
Power Source: 208-230V



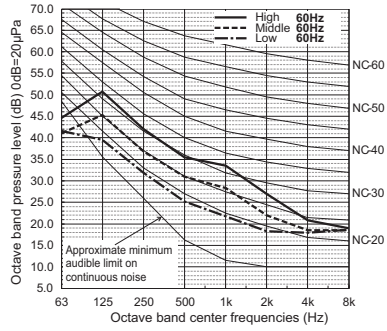
PEFY-M18NMSU-A
External Static Pressure: 50Pa [0.20in.WG]
Power Source: 208-230V



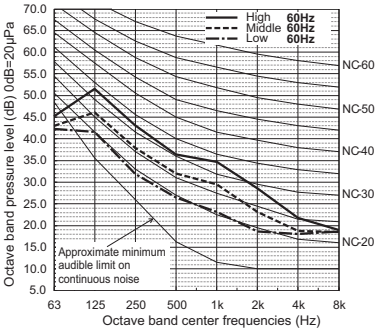
PEFY-M24NMSU-A
External Static Pressure: 5Pa [0.02in.WG]
Power Source: 208-230V



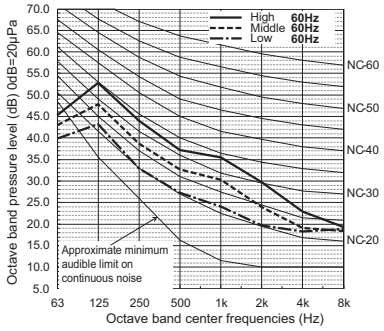
PEFY-M24NMSU-A
External Static Pressure: 15Pa [0.06in.WG]
Power Source: 208-230V



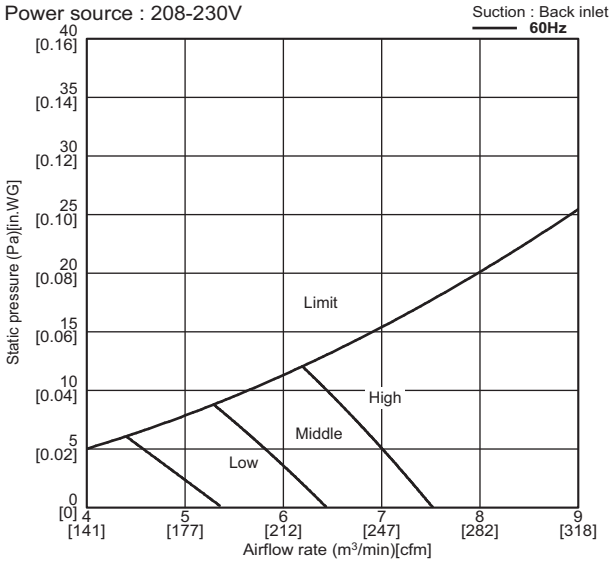
PEFY-M24NMSU-A
External Static Pressure: 35Pa [0.14in.WG]
Power Source: 208-230V



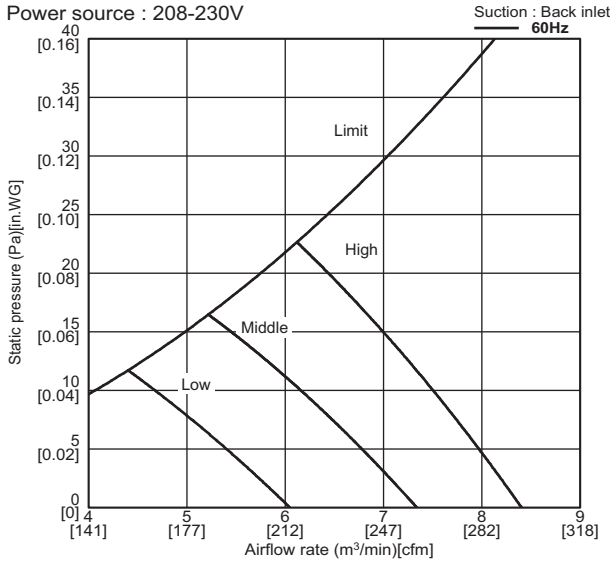
PEFY-M24NMSU-A
External Static Pressure: 50Pa [0.20in.WG]
Power Source: 208-230V



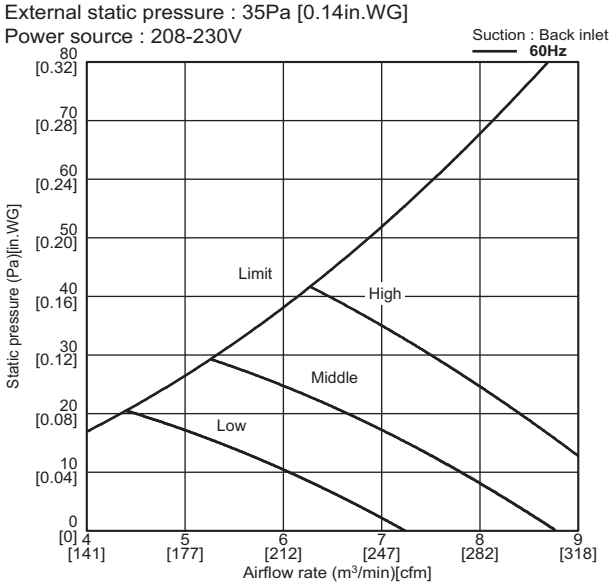
PEFY-M06NMSU-A
External static pressure : 5Pa [0.02in.WG]
Power source : 208-230V



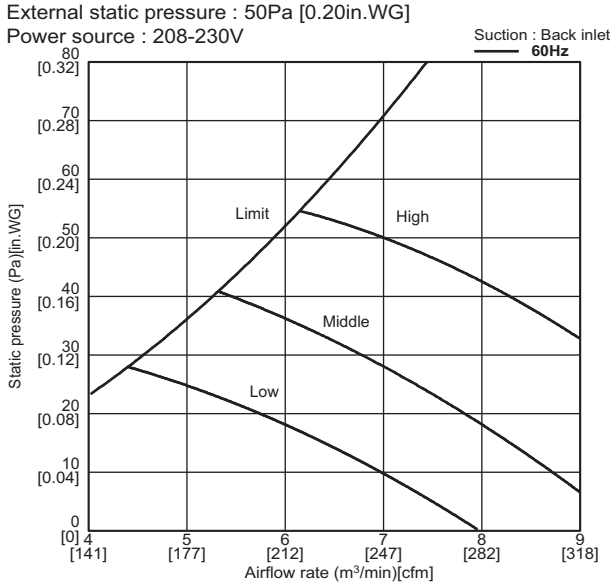
PEFY-M06NMSU-A
External static pressure : 15Pa [0.06in.WG]
Power source : 208-230V



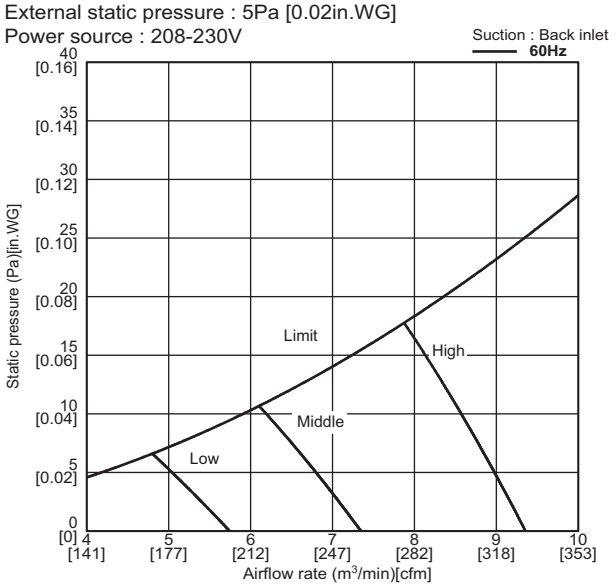
PEFY-M06NMSU-A
External static pressure : 35Pa [0.14in.WG]
Power source : 208-230V



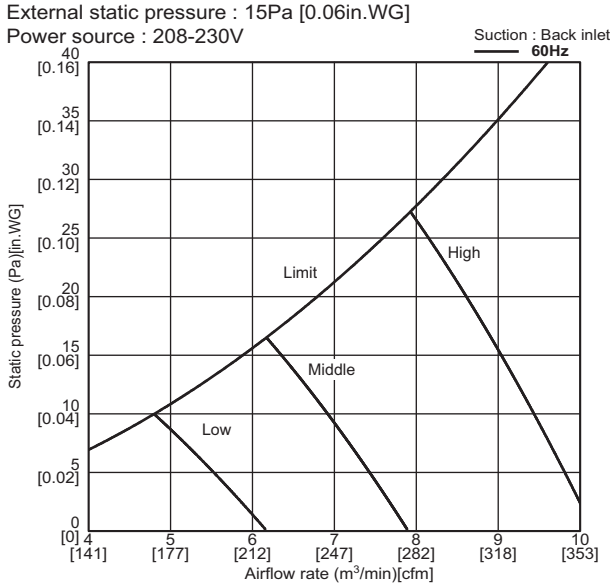
PEFY-M06NMSU-A
External static pressure : 50Pa [0.20in.WG]
Power source : 208-230V



PEFY-M08NMSU-A
External static pressure : 5Pa [0.02in.WG]
Power source : 208-230V

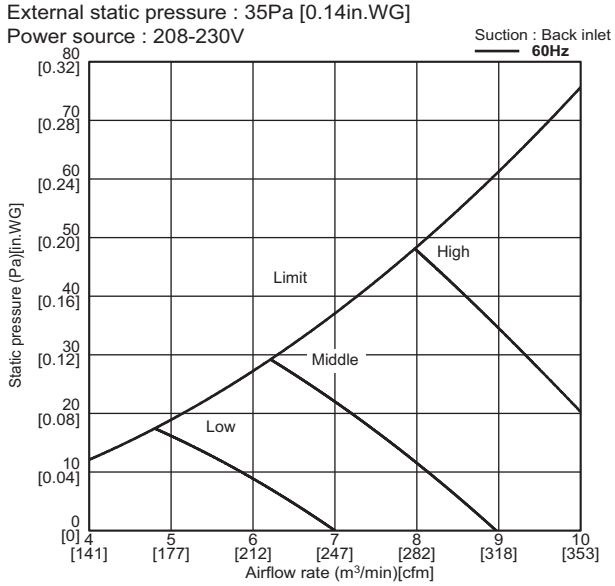


PEFY-M08NMSU-A
External static pressure : 15Pa [0.06in.WG]
Power source : 208-230V

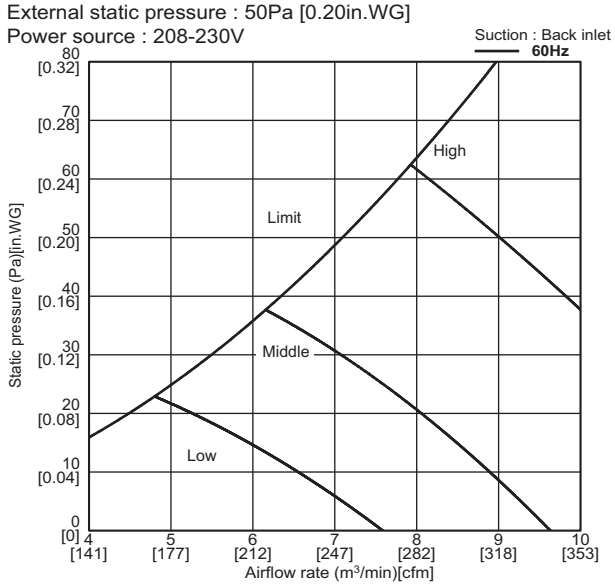


Note: Operate only within the operating range shown in the above fan characteristic curves.

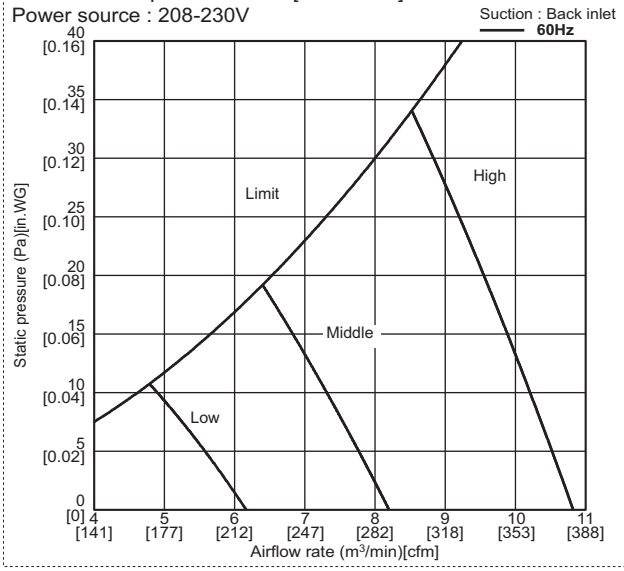
PEFY-M08NMSU-A
External static pressure : 35Pa [0.14in.WG]
Power source : 208-230V



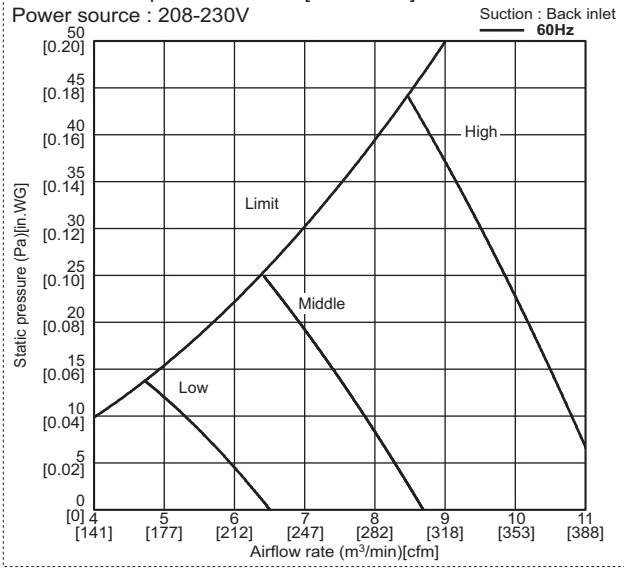
PEFY-M08NMSU-A
External static pressure : 50Pa [0.20in.WG]
Power source : 208-230V



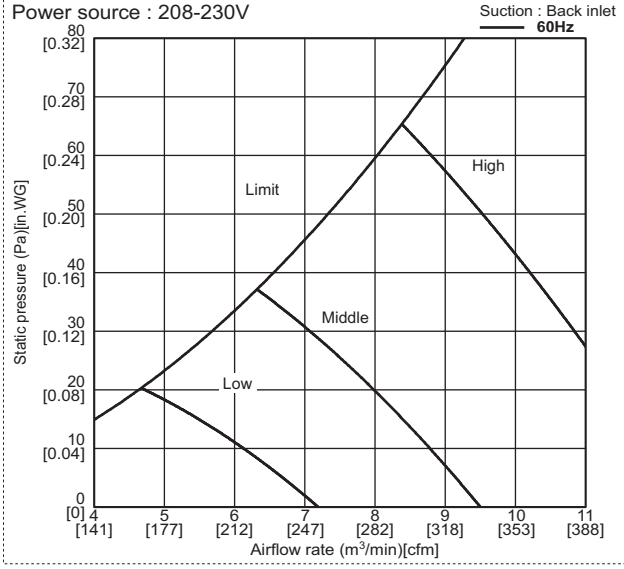
PEFY-M12NMSU-A
External static pressure : 5Pa [0.02in.WG]
Power source : 208-230V



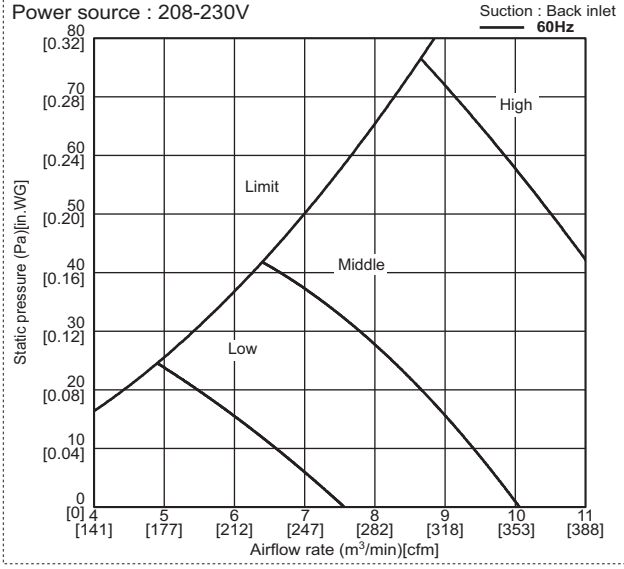
PEFY-M12NMSU-A
External static pressure : 15Pa [0.06in.WG]
Power source : 208-230V



PEFY-M12NMSU-A
External static pressure : 35Pa [0.14in.WG]
Power source : 208-230V

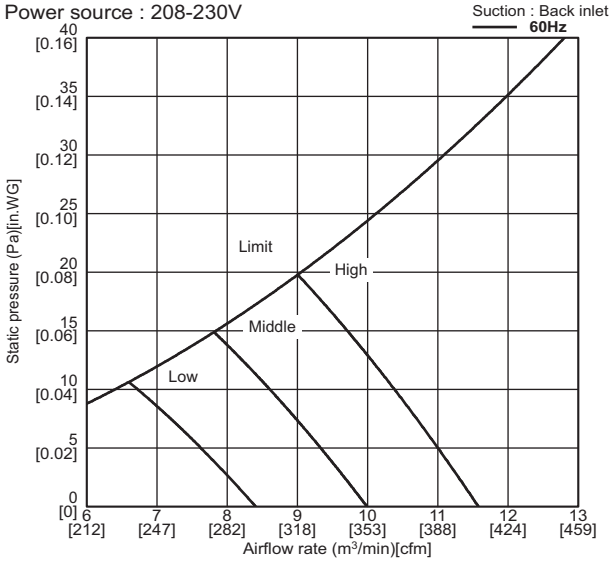


PEFY-M12NMSU-A
External static pressure : 50Pa [0.20in.WG]
Power source : 208-230V

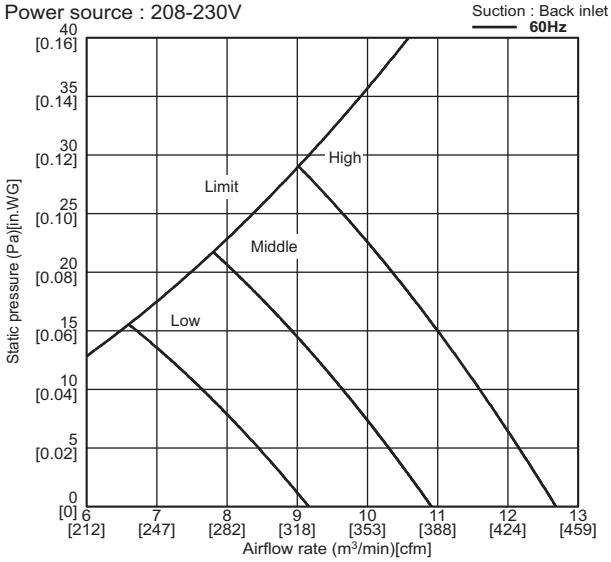


Note: Operate only within the operating range shown in the above fan characteristic curves.

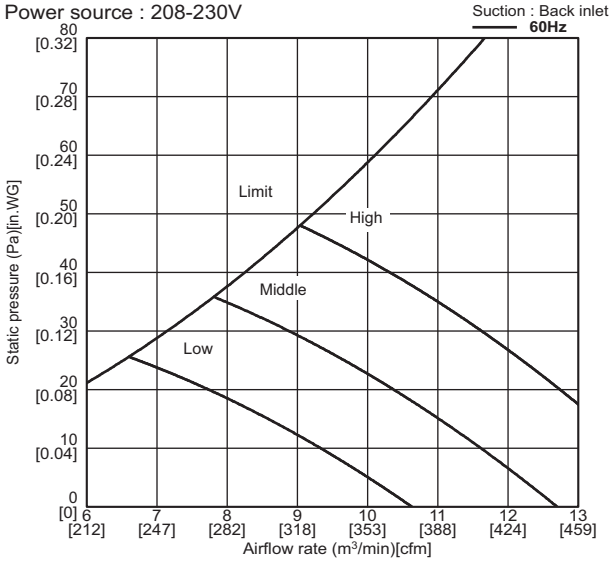
PEFY-M15NMSU-A
External static pressure : 5Pa [0.02in.WG]
Power source : 208-230V



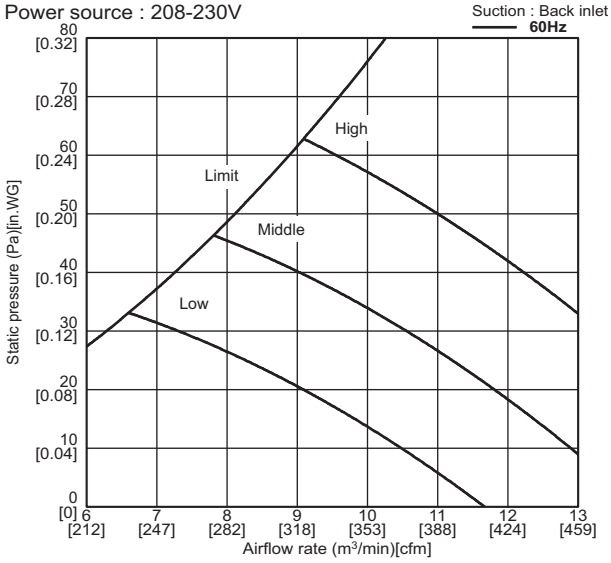
PEFY-M15NMSU-A
External static pressure : 15Pa [0.06in.WG]
Power source : 208-230V



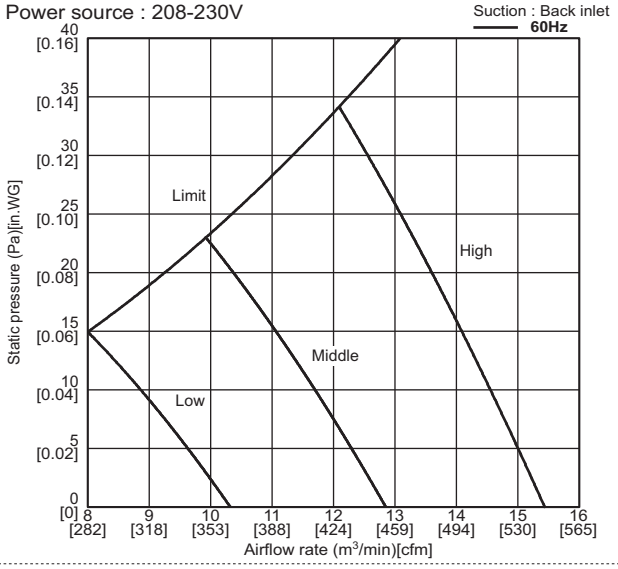
PEFY-M15NMSU-A
External static pressure : 35Pa [0.14in.WG]
Power source : 208-230V



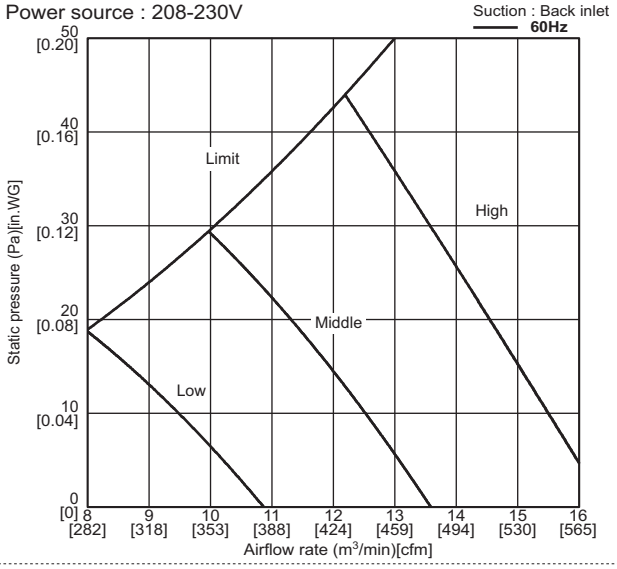
PEFY-M15NMSU-A
External static pressure : 50Pa [0.20in.WG]
Power source : 208-230V



PEFY-M18NMSU-A
External static pressure : 5Pa [0.02in.WG]
Power source : 208-230V

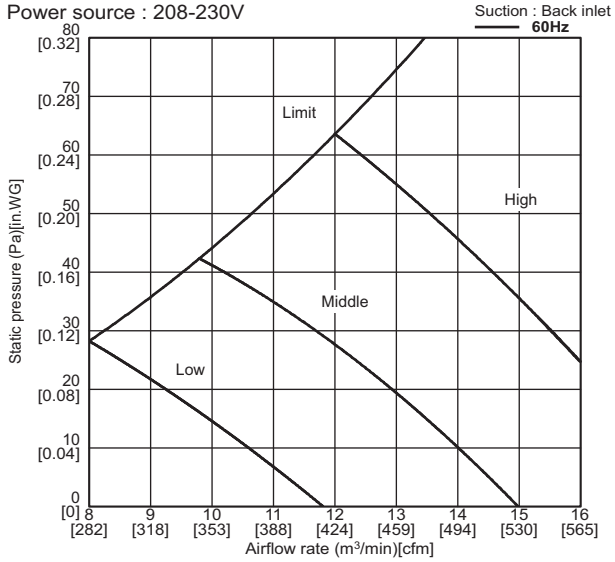


PEFY-M18NMSU-A
External static pressure : 15Pa [0.06in.WG]
Power source : 208-230V

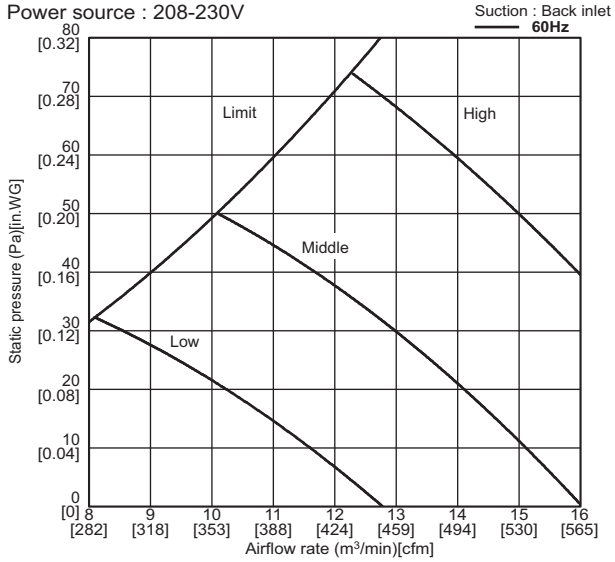


Note: Operate only within the operating range shown in the above fan characteristic curves.

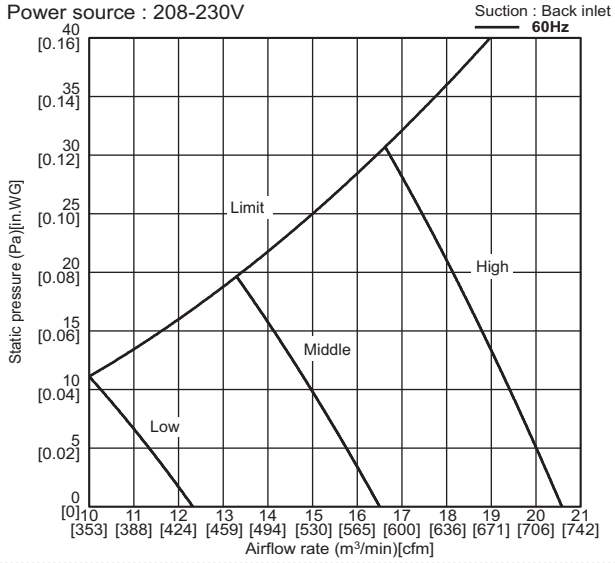
PEFY-M18NMSU-A
External static pressure : 35Pa [0.14in.WG]
Power source : 208-230V



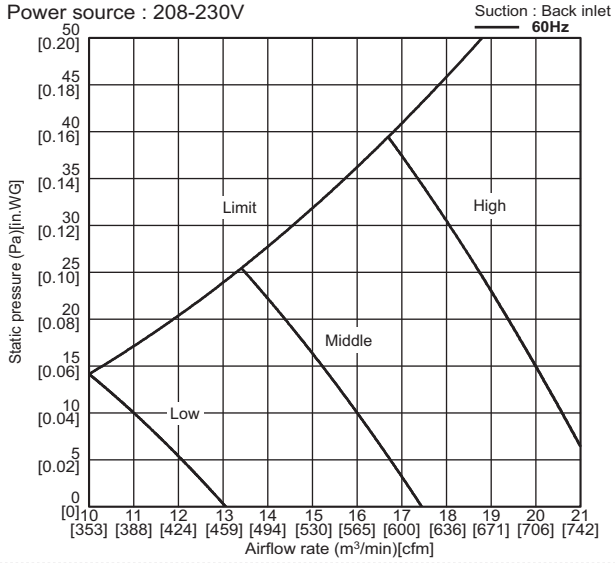
PEFY-M18NMSU-A
External static pressure : 50Pa [0.20in.WG]
Power source : 208-230V



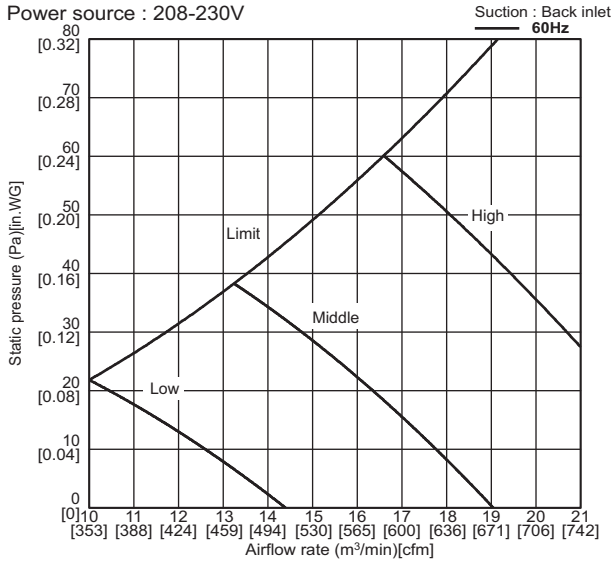
PEFY-M24NMSU-A
External static pressure : 5Pa [0.02in.WG]
Power source : 208-230V



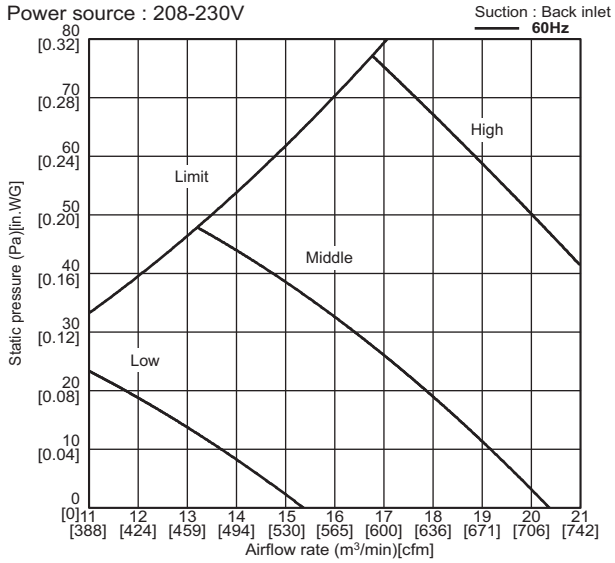
PEFY-M24NMSU-A
External static pressure : 15Pa [0.06in.WG]
Power source : 208-230V



PEFY-M24NMSU-A
External static pressure : 35Pa [0.14in.WG]
Power source : 208-230V



PEFY-M24NMSU-A
External static pressure : 50Pa [0.20in.WG]
Power source : 208-230V



Note: Operate only within the operating range shown in the above fan characteristic curves.

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-M06NMSU-A	60Hz	208 - 230V	188 to 253V	0.79	0.096	0.63
PEFY-M08NMSU-A				0.95	0.096	0.76
PEFY-M12NMSU-A				1.17	0.096	0.93
PEFY-M15NMSU-A				1.12	0.096	0.89
PEFY-M18NMSU-A				1.35	0.096	1.08
PEFY-M24NMSU-A				1.59	0.096	1.27

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

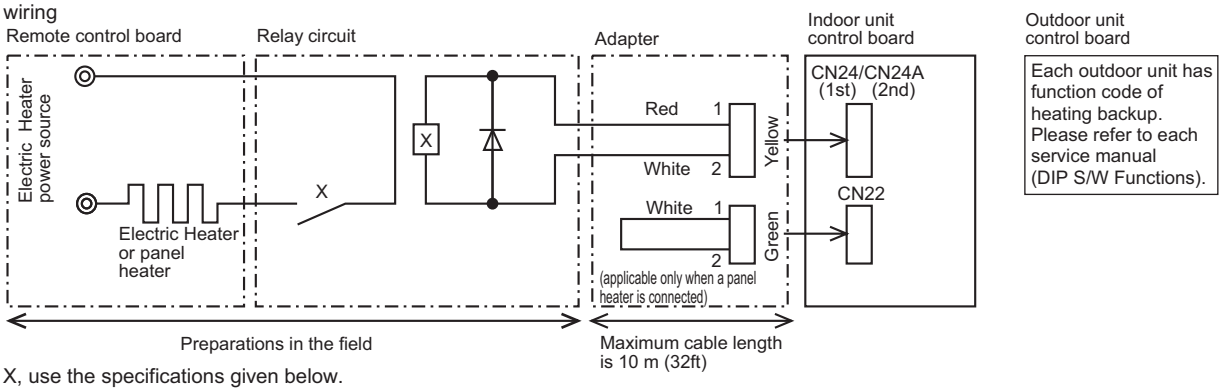
	External heater adapter
PEFY-M06, 08, 12, 15, 18, 24NMSU-A	PAC-YU25HT

8-2. 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.)

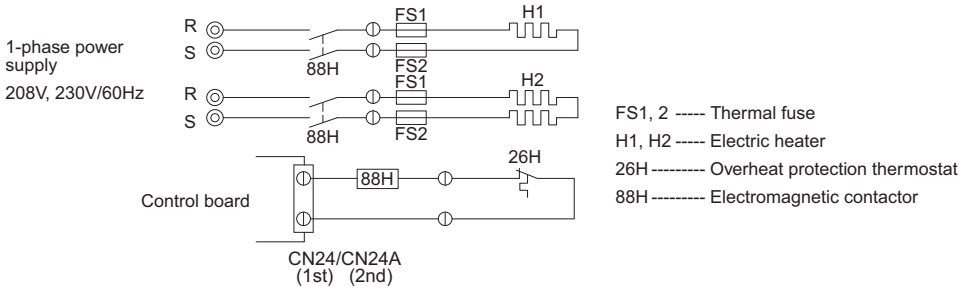
(1) Basic wiring

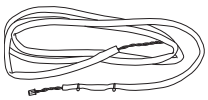
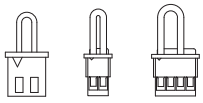


For relay X, use the specifications given below.
- Operation coil
- Rated voltage: 12VDC
- Power consumption: 0.9W or less
- * Use the diode that is recommended by the relay manufacturer at both ends of the relay coil.

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 mm^2 ~ 1.25 mm^2 (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, R32/R454B.

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Specifications are subject to change without notice