MITSUBISHI ELECTRIC

Changes for the Better

AIR CONDITIONING SYSTEMS

CITY MULTI

DATA BOOK

MODEL

PEFY-WL-NMAU-A

CONTENTS

PEFY-WL-NMAU-A

1. SPECIFICATIONS

Model				PEFY-WL06NMAU-A	PEFY-WL08NMAU-A	PEFY-WL12NMAU-A	PEFY-WL15NMAU-A
Power source				1-phase 208/230 V 60 Hz	1-phase 208/230 V 60 Hz	1-phase 208/230 V 60 Hz	1-phase 208/230 V 60 Hz
Cooling capacity		*1	BTU/h	6,000	8,000	12,000	15,000
		*1	kW	1.8	2.3	3.5	4.4
	*2 Power input		kW	0.042	0.042	0.052	0.062
	*2 Current input		A	0.42/0.38	0.42/0.38	0.56/0.51	0.64/0.58
Heating capacity		*3	BTU/h	6,700	9,000	13,500	17,000
		*3	kW	2.0	2.6	4.0	5.0
	*2 Power input		kW	0.040	0.040	0.050	0.060
	*2 Current input		A	0.42/0.38	0.42/0.38	0.56/0.51	0.64/0.58
External finish				Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate
External dimension H × W × D			inch	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 35-7/16 x 28-7/8
			mm	250 x 700 x 732	250 x 700 x 732	250 x 700 x 732	250 x 900 x 732
Net weight			lbs (kg)	47 (21)	47 (21)	47 (21)	55 (25)
Heat exchanger				Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)
	Water Volume		L	0.9	0.9	0.9	1.2
FAN	Type × Quantity			Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 2
*4	External static press.		in.WG	<0.14> - 0.20 - <0.28> - <0.40> - <0.60>	<0.14> - 0.20 - <0.28> - <0.40> - <0.60>	<0.14> - 0.20 - <0.28> - <0.40> - <0.60>	<0.14> - 0.20 - <0.28> - <0.40> - <0.60>
			Pa	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>
	Motor Type			DC motor	DC motor	DC motor	DC motor
	Motor output		kW	0.085	0.085	0.085	0.121
	Driving mechanism			Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
	Air flow rate			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
			cfm	212 - 265 - 300	212 - 265 - 300	265 - 318 - 371	353 - 424 - 494
			m^3/min	6.0 - 7.5 - 8.5	6.0 - 7.5 - 8.5	7.5 - 9.0 - 10.5	10.0 - 12.0 - 14.0
			L/s	100 - 125 - 142	100 - 125 - 142	125 - 150 - 175	167 - 200 - 233
Sound pressure level (measured in anechoic room)				(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
		*2	dB <A>	24-28-30	24-28-30	26-30-34	27-31-34
Insulation material				EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam
Air filter				PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.
Protection device				Fuse	Fuse	Fuse	Fuse
Refrigerant control device				-	-	-	-
Connectable HBC controller				CMB-WP-NU-AA, CMB-WP-NU-AB	CMB-WP-NU-AA, CMB-WP-NU-AB	CMB-WP-NU-AA, CMB-WP-NU-AB	CMB-WP-NU-AA, CMB-WP-NU-AB
Water piping diameter	*5, 6						
	Connection size	Inlet	mm O.D.	22	22	22	22
		Outlet	mm O.D.	22	22	22	22
	Field pipe size	Inlet	mm I.D.	20	20	20	20
		Outlet	mm I.D.	20	20	20	20
Field drain pipe size			inch (mm)	O.D.1-1/4 (32)	O.D.1-1/4 (32)	O.D.1-1/4 (32)	O.D.1-1/4 (32)
Drawing	External			KB94C45N	KB94C45N	KB94C45N	KB94C45N
	Wiring			KB94C45J	KB94C45J	KB94C45J	KB94C45J
	Refrigerant cycle			-	-	-	-
Standard attachment	Document			Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book
	Accessory			Washer, Drain hose, Tie band	Washer, Drain hose, Tie band	Washer, Drain hose, Tie band	Washer, Drain hose, Tie band
Optional parts	External heater adapter			PAC-YU25HT	PAC-YU25HT	PAC-YU25HT	PAC-YU25HT
	Filter box			PAC-KE91TB-E	PAC-KE91TB-E	PAC-KE91TB-E	PAC-KE92TB-E
Remarks				* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. * Due to continuing improvement, above specifications may be subject to change without notice.			

Notes:

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.Be sure to install a valve on the water inlet/outlet.
6.Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.

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.

Model				PEFY-WL18NMAU-A	PEFY-WL24NMAU-A	PEFY-WL27NMAU-A	PEFY-WL30NMAU-A
Power source				1-phase 208/230 V 60 Hz	1-phase 208/230 V 60 Hz	1-phase 208/230 V 60 Hz	1-phase 208/230 V 60 Hz
Cooling capacity		*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	0.102	0.142	0.142	0.142
	*2	Current input	A	0.98/0.89	1.24/1.12	1.24/1.12	1.24/1.12
Heating capacity		*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	0.100	0.140	0.140	0.140
	*2	Current input	A	0.98/0.89	1.24/1.12	1.24/1.12	1.24/1.12
External finish				Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate
External dimension H × W × D			inch	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	9-7/8 x 43-5/16 x 28-7/8
			mm	250 x 1,100 x 732	250 x 1,100 x 732	250 x 1,100 x 732	250 x 1,100 x 732
Net weight			lbs (kg)	67 (30)	67 (30)	67 (30)	67 (30)
Heat exchanger				Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)
	Water Volume		L	2.1	2.1	2.1	2.1
FAN	Type × Quantity			Sirocco fan x 2	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 motor	DC motor	DC motor	DC motor
	Motor output		kW	0.121	0.121	0.121	0.121
	Driving mechanism			Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
	Air flow rate			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
			cfm	512 - 636 - 742	618 - 742 - 883	618 - 742 - 883	618 - 742 - 883
			m^3/min	14.5 - 18.0 - 21.0	17.5 - 21.0 - 25.0	17.5 - 21.0 - 25.0	17.5 - 21.0 - 25.0
			L/s	242 - 300 - 350	292 - 350 - 417	292 - 350 - 417	292 - 350 - 417
Sound pressure level (measured in anechoic room)				(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
		*2	dB <A>	29-33-37	31-35-39	31-35-39	31-35-39
Insulation material				EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam
Air filter				PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.
Protection device				Fuse	Fuse	Fuse	Fuse
Refrigerant control device				-	-	-	-
Connectable HBC controller				CMB-WP-NU-AA, CMB-WP-NU-AB	CMB-WP-NU-AA, CMB-WP-NU-AB	CMB-WP-NU-AA, CMB-WP-NU-AB	CMB-WP-NU-AA, CMB-WP-NU-AB
Water piping diameter	*5, 6						
	Connection size	Inlet	mm O.D.	22	22	22	22
		Outlet	mm O.D.	22	22	22	22
	Field pipe size	Inlet	mm I.D.	20	30	30	30
		Outlet	mm I.D.	20	30	30	30
Field drain pipe size			inch (mm)	O.D.1-1/4 (32)	O.D.1-1/4 (32)	O.D.1-1/4 (32)	O.D.1-1/4 (32)
Drawing	External			KB94C45N	KB94C45N	KB94C45N	KB94C45N
	Wiring			KB94C45J	KB94C45J	KB94C45J	KB94C45J
	Refrigerant cycle			-	-	-	-
Standard attachment	Document			Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book
	Accessory			Washer, Drain hose, Tie band	Washer, Drain hose, Tie band	Washer, Drain hose, Tie band	Washer, Drain hose, Tie band
Optional parts	External heater adapter			PAC-YU25HT	PAC-YU25HT	PAC-YU25HT	PAC-YU25HT
	Filter box			PAC-KE93TB-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
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.Be sure to install a valve on the water inlet/outlet.
6.Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.

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.

1. SPECIFICATIONS

Model				PEFY-WL36NMAU-A	PEFY-WL48NMAU-A		
Power source				1-phase 208/230 V 60 Hz	1-phase 208/230 V 60 Hz		
Cooling capacity		*1	BTU/h	36,000	48,000		
		*1	kW	10.6	14.1		
	*2 Power input		kW	0.222	0.252		
	*2 Current input		A	2.01/1.82	2.29/2.07		
Heating capacity		*3	BTU/h	40,000	54,000		
		*3	kW	11.7	15.8		
	*2 Power input		kW	0.220	0.250		
	*2 Current input		A	2.01/1.82	2.29/2.07		
External finish				Galvanized steel plate	Galvanized steel plate		
External dimension H × W × D			inch	9-7/8 x 55-1/8 x 28-7/8	9-7/8 x 63 x 28-7/8		
			mm	250 x 1,400 x 732	250 x 1,600 x 732		
Net weight			lbs (kg)	82 (37)	91 (41)		
Heat exchanger				Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)		
	Water Volume		L	2.7	3.7		
FAN	Type × Quantity			Sirocco fan x 3	Sirocco fan x 3		
*4	External static press.		in.WG	<0.14> - 0.20 - <0.28> - <0.40> - <0.60>	<0.14> - 0.20 - <0.28> - <0.40> - <0.60>		
			Pa	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>		
	Motor Type			DC motor	DC motor		
	Motor output		kW	0.3	0.3		
	Driving mechanism			Direct-driven by motor	Direct-driven by motor		
	Air flow rate			(Low-Mid-High)	(Low-Mid-High)		
			cfm	883 - 1,077 - 1,271	989 - 1,201 - 1,413		
			m^3/min	25.0 - 30.5 - 36.0	28.0 - 34.0 - 40.0		
			L/s	417 - 508 - 600	467 - 567 - 667		
Sound pressure level (measured in anechoic room)				(Low-Mid-High)	(Low-Mid-High)		
		*2	dB <A>	35-39-43	34-38-42		
Insulation material				EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam		
Air filter				PP honeycomb fabric.	PP honeycomb fabric.		
Protection device				Fuse	Fuse		
Refrigerant control device				-	-		
Connectable HBC controller				CMB-WP-NU-AA, CMB-WP-NU-AB	CMB-WP-NU-AA, CMB-WP-NU-AB		
Water piping diameter	*5, 6						
	Connection size	Inlet	mm O.D.	22	22		
		Outlet	mm O.D.	22	22		
	Field pipe size	Inlet	mm I.D.	30	30		
		Outlet	mm I.D.	30	30		
Field drain pipe size			inch (mm)	O.D.1-1/4 (32)	O.D.1-1/4 (32)		
Drawing	External			KB94C45N	KB94C45N		
	Wiring			KB94C45J	KB94C45J		
	Refrigerant cycle			-	-		
Standard attachment	Document			Installation Manual, Instruction Book	Installation Manual, Instruction Book		
	Accessory			Washer, Drain hose, Tie band	Washer, Drain hose, Tie band		
Optional parts	External heater adapter			PAC-YU25HT	PAC-YU25HT		
	Filter box			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:

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.Be sure to install a valve on the water inlet/outlet.
6.Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.

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-WL06, 08, 12, 15, 18, 24, 27, 30, 36, 48NMAU-A

Unit: mm (in.)

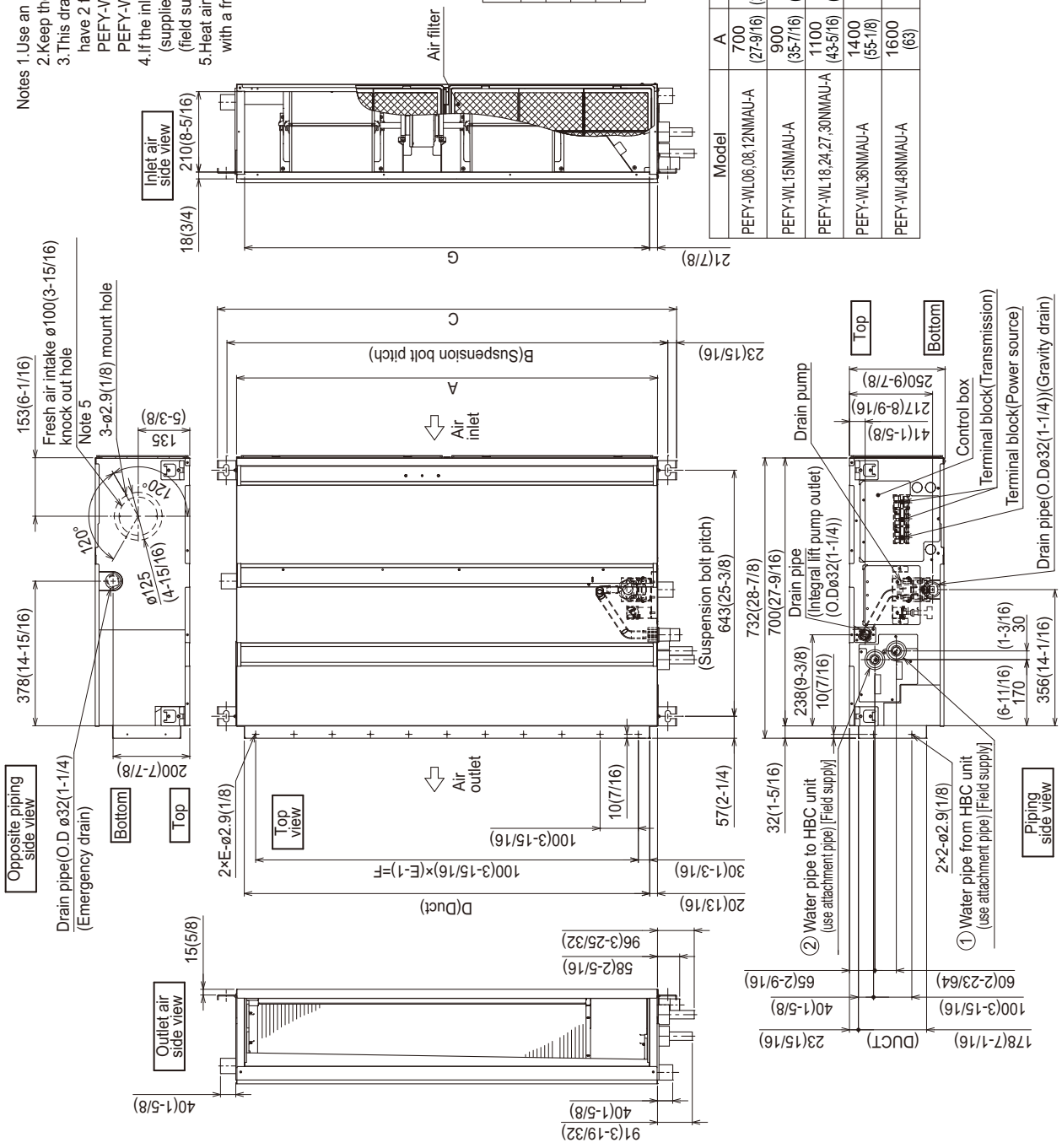
Notes 1.Use an M10 screw for the suspension bolt (field supply).
2.Keep the service space for maintenance at the bottom.
3.This drawing is for PEFY-WL18·24·27·30NMAU-A models, which have 2 fans. PEFY-WL06·08·12NMAU-A models have 1 fan.
PEFY-WL15NMAU-A model have 2 fans.
PEFY-WL36·48NMAU-A models have 3 fans.
4.If the inlet duct is used, remove the air filter (supplied with the unit), then install the filter (field supply) at the suction side.
5.Heat air to 0° (32°F) or higher when taking fresh air with a fresh air intake.

Unit: mm

Model	① Water pipe from HBC unit	② Water pipe to HBC unit
PEFY-WL06,08,12NMAU-A	ø22.0	
PEFY-WL15NMAU-A		
PEFY-WL18,24,27,30NMAU-A		
PEFY-WL36NMAU-A		
PEFY-WL48NMAU-A		

Unit: mm(in.)

Model	A	B	C	D	E	F	G
PEFY-WL06,08,12NMAU-A	700 (27-9/16)	754 (29-11/16)	800 (31-1/2)	660 (26)	7	600 (23-5/8)	658 (25-15/16)
PEFY-WL15NMAU-A	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-WL18,24,27,30NMAU-A	1100 (43-5/16)	1154 (45-7/16)	1200 (47-1/4)	1060 (41-3/4)	11	1000 (39-3/8)	1058 (41-11/16)
PEFY-WL36NMAU-A	1400 (55-1/8)	1454 (57-1/4)	1500 (59-1/16)	1360 (53-9/16)	14	1300 (51-3/16)	1358 (53-1/2)
PEFY-WL48NMAU-A	1600 (63)	1654 (65-1/8)	1700 (66-15/16)	1560 (61-7/16)	16	1500 (59-1/16)	1558 (61-3/8)



PEFY-WL06, 08, 12, 15, 18, 24, 27, 30, 36, 48NMAU-A

Unit: mm (in.)

Unit: mm(in.)

Model	H	J	K	L	M	N	P	Q	R	S
PEFY-WL06,08,12NMAU-A	800 (31-1/2)	44 (1-3/4)	150 (5-15/16)	300 (11-13/16)	/	/	10	700 (27-9/16)	50~150 (2)~(5-15/16)	1300 (51-3/16)
PEFY-WL15NMAU-A	1000 (39-3/8)	54 (2-3/16)	260 (10-1/4)	/	4	780 (30-3/4)	10	900 (35-7/16)	150~250 (5-15/16)~(9-7/8)	1500 (59-1/16)
PEFY-WL18,24,27,30NMAU-A	1200 (47-1/4)	49 (1-15/16)	330 (13)	/	4	990 (39)	10	1100 (43-5/16)	250~350 (9-7/8)~(13-13/16)	1700 (66-15/16)
PEFY-WL36NMAU-A	1500 (59-1/16)	54 (2-3/16)	320 (12-5/8)	/	5	1280 (50-7/16)	12	1400 (55-1/8)	400~500 (15-3/4)~(19-11/16)	2000 (78-3/4)
PEFY-WL48NMAU-A	1700 (66-15/16)	54 (2-3/16)	370 (14-5/8)	/	5	1480 (58-5/16)	12	1600 (63)	500~600 (19-11/16)~(23-5/8)	2200 (86-5/8)

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

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

(2) When a space of less than 300mm is available below the unit between the unit and the ceiling.
(At least 20mm of space should be left below the unit as shown in Fig.3.)
·Create access door 1 diagonally below the control box and access door 3 below the unit as shown in Fig.4.
or
·Create access door 4 below the control box and the unit as shown in Fig.5.

PEFY-WL06, 08, 12, 15, 18, 24, 27, 30, 36, 48NMAU-A with filter box

Unit: mm (in.)

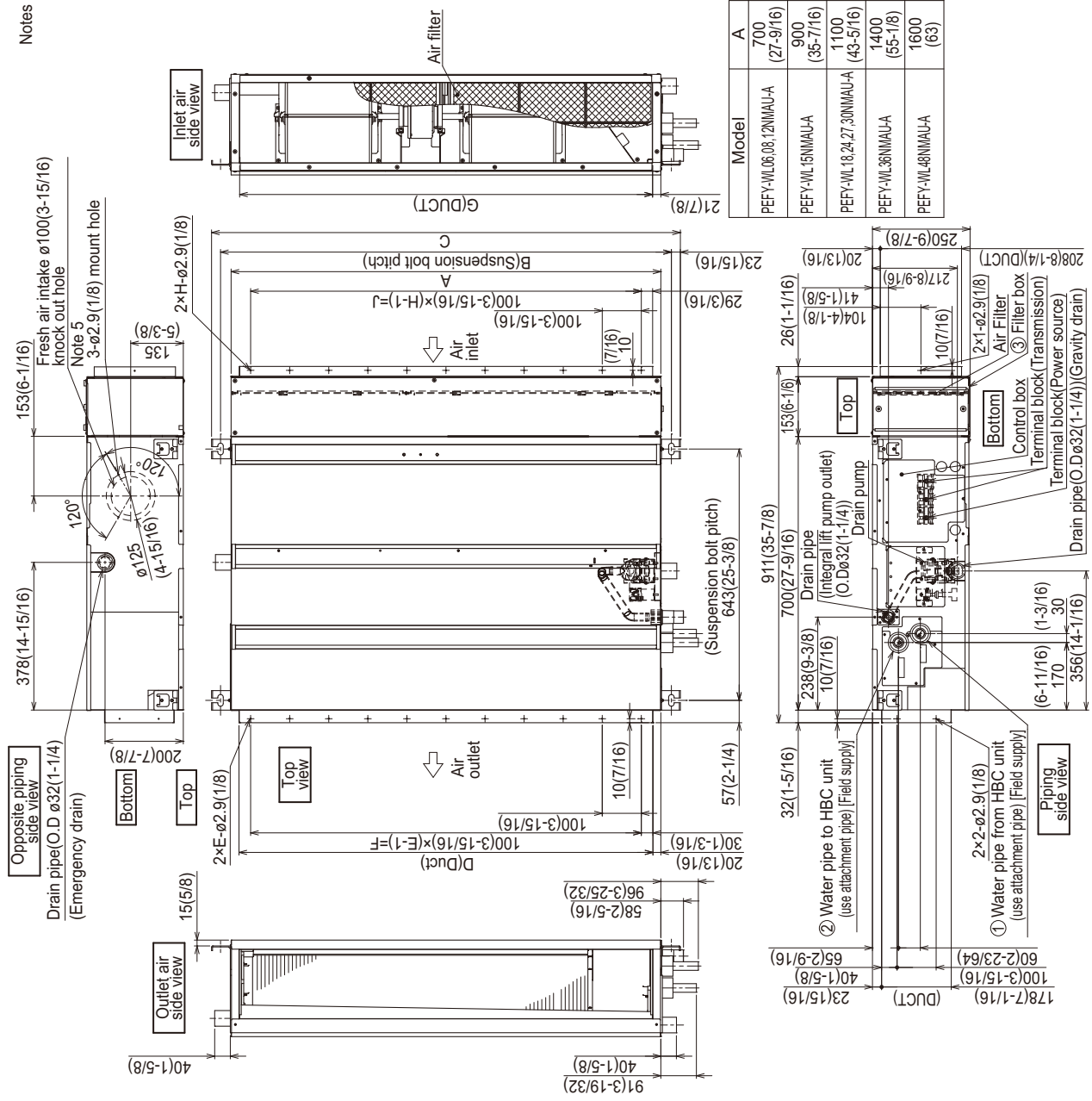
Notes 1.Use an M10 screw for the suspension bolt (field supply).
2.Keep the service space for maintenance at the bottom.
3.This drawing is for PEFY-WL18·24·27·30NMAU-A models, which have 2 fans. PEFY-WL06·08·12NMAU-A models have 1 fan. PEFY-WL15NMAU-A model have 2 fans. PEFY-WL36·48NMAU-A models have 3 fans.
4.Use air filter installed with indoor unit.
5.Heat air to 0° (32°F) or higher when taking fresh air with a fresh air intake.

Unit: mm

Model	① Water pipe from HBC unit	② Water pipe to HBC unit	③ Filter box
PEFY-WL06,08,12NMAU-A	ø22.0		PAC-KE91TB-E
PEFY-WL15NMAU-A			PAC-KE92TB-E
PEFY-WL18,24,27,30NMAU-A			PAC-KE93TB-E
PEFY-WL36NMAU-A			PAC-KE94TB-E
PEFY-WL48NMAU-A			PAC-KE95TB-E

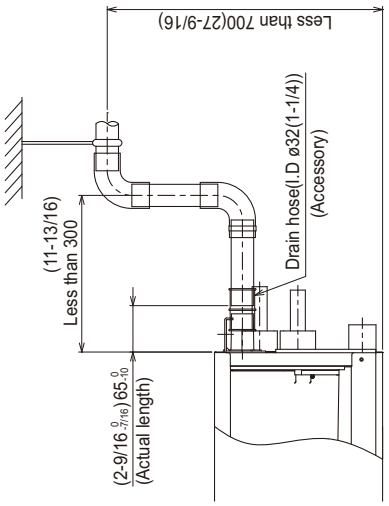
Unit: mm(in.)

Model	A	B	C	D	E	F	G	H	J
PEFY-WL06,08,12NMAU-A	700 (27-9/16)	754 (29-11/16)	800 (31-1/2)	660 (26)	7	600 (23-5/8)	658 (25-15/16)	7	600 (23-5/8)
PEFY-WL15NMAU-A	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)	9	800 (31-1/2)
PEFY-WL18,24,27,30NMAU-A	1100 (43-5/16)	1154 (45-7/16)	1200 (47-1/4)	1060 (41-3/4)	11	1000 (39-3/8)	1058 (41-11/16)	11	1000 (39-3/8)
PEFY-WL36NMAU-A	1400 (55-1/8)	1454 (57-1/4)	1500 (59-1/16)	1360 (53-9/16)	14	1300 (51-3/16)	1358 (53-1/2)	14	1300 (51-3/16)
PEFY-WL48NMAU-A	1600 (63)	1654 (65-1/8)	1700 (66-15/16)	1560 (61-7/16)	16	1500 (59-1/16)	1558 (61-3/8)	16	1500 (59-1/16)



PEFY-WL06, 08, 12, 15, 18, 24, 27, 30, 36, 48NMAU-A with filter box

Unit: mm (in.)



* Dimension 'P' is in case of side maintenance for air filter.

Unit: mm(in.)

Model	K	L	M	N	P*
PEFY-WL06,08,12NMAU-A	800 (31-1/2)	700 (27-9/16)	50~150 (2)~(5-15/16)	1300 (51-3/16)	1450 (57-1/8)
PEFY-WL15NMAU-A	1000 (39-3/8)	900 (35-7/16)	150~250 (5-15/16)~(9-7/8)	1500 (59-1/16)	1850 (72-7/8)
PEFY-WL18,24,27,30NMAU-A	1200 (47-1/4)	1100 (43-5/16)	250~350 (9-7/8)~(13-13/16)	1700 (66-15/16)	
PEFY-WL36NMAU-A	1500 (59-1/16)	1400 (55-1/8)	400~500 (15-3/4)~(19-11/16)	2000 (78-3/4)	2150 (84-11/16)
PEFY-WL48NMAU-A	1700 (66-15/16)	1600 (63)	500~600 (19-11/16)~(23-5/8)	2200 (86-5/8)	2550 (100-7/16)

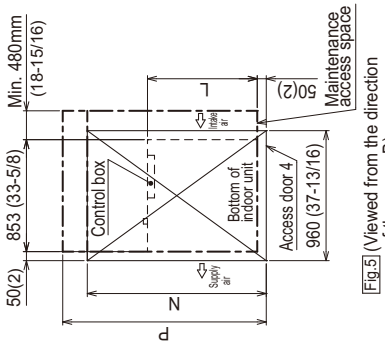


Fig.5 (Viewed from the direction of the arrow B)

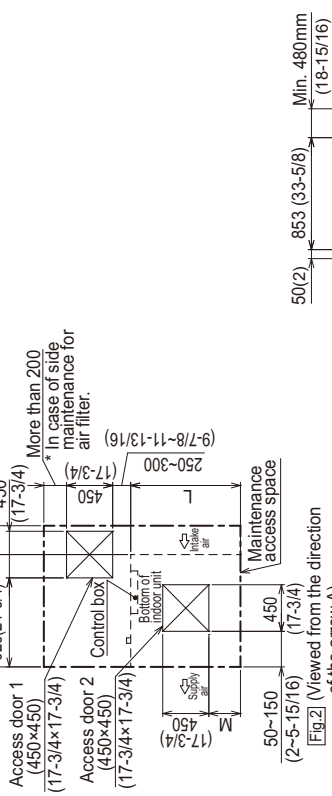


Fig.2 (Viewed from the direction of the arrow A)

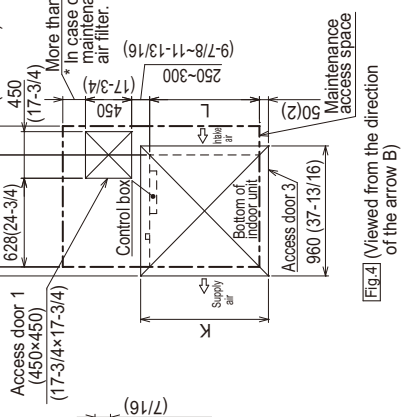


Fig.4 (Viewed from the direction of the arrow B)

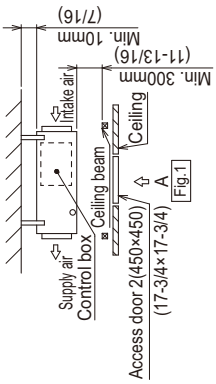


Fig.1

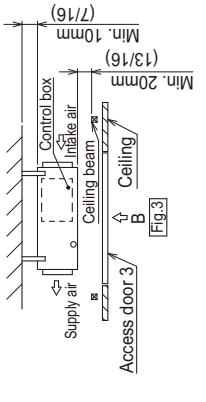


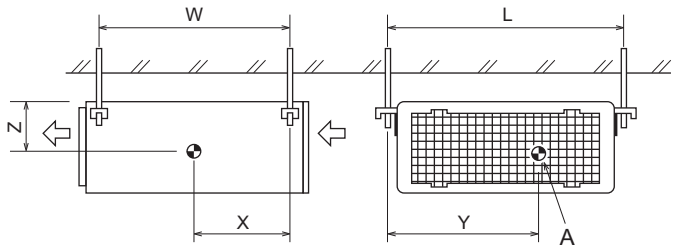
Fig.3

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

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

(2) When a space of less than 300mm is available below the unit between the unit and the ceiling.
(At least 20mm of space should be left below the unit as shown in Fig.3.)
·Create access door 1 diagonally below the control box and access door 3 below the unit as shown in Fig.4.
or
·Create access door 4 below the control box and the unit as shown in Fig.5.

PEFY-WL06, 08, 12, 15, 18, 24, 27, 30, 36, 48NMAU-A

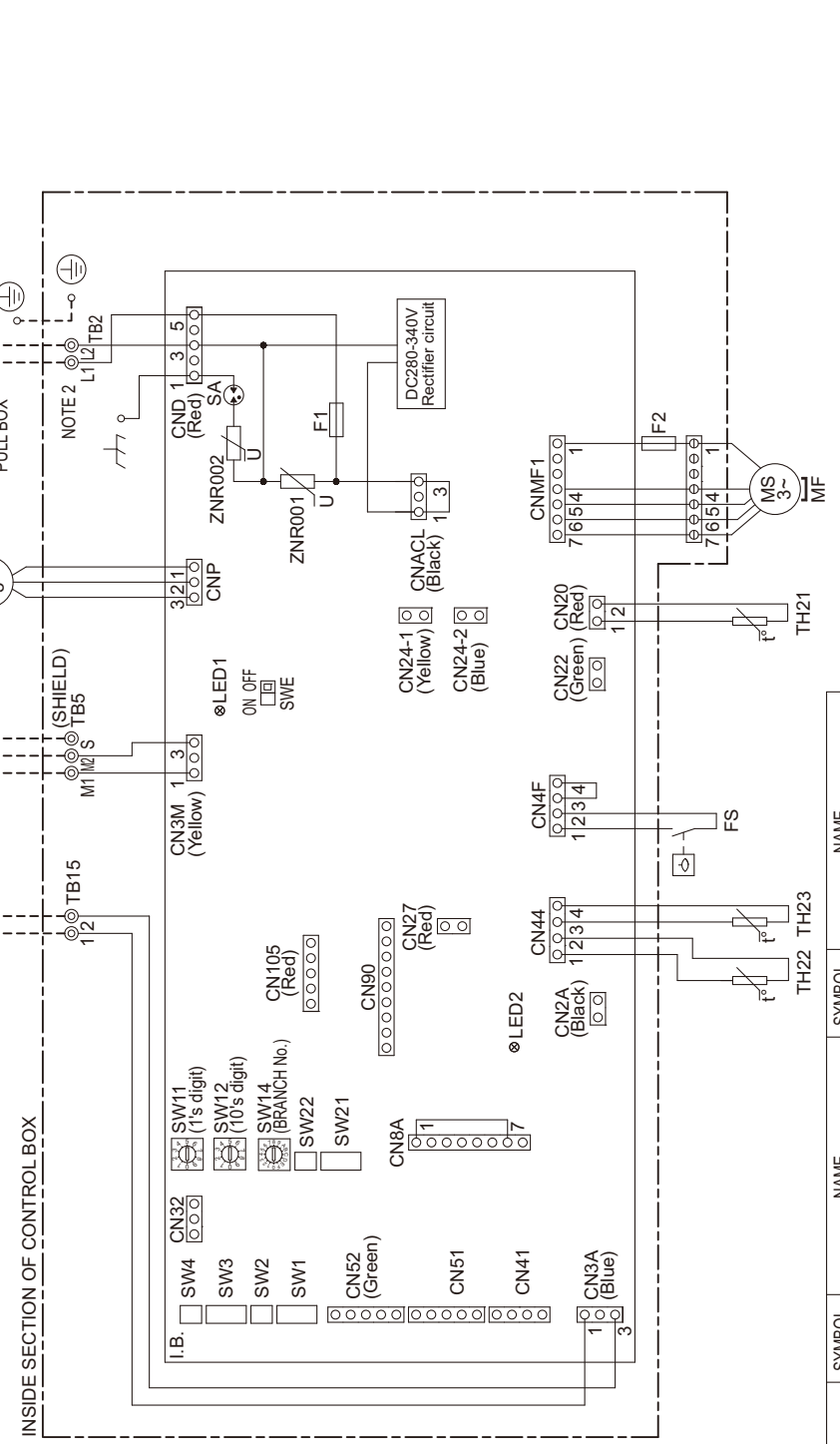


A: Center of gravity

(mm) [in]

Model name	W	L	X	Y	Z
PEFY-WL06NMAU-A	643 [25-6/16]	754 [29-11/16]	330 [13]	300 [11-13/16]	130 [5-2/16]
PEFY-WL08NMAU-A	643 [25-6/16]	754 [29-11/16]	330 [13]	300 [11-13/16]	130 [5-2/16]
PEFY-WL12NMAU-A	643 [25-6/16]	754 [29-11/16]	330 [13]	300 [11-13/16]	130 [5-2/16]
PEFY-WL15NMAU-A	643 [25-6/16]	954 [37-9/16]	340 [13-7/16]	375 [14-13/16]	130 [5-2/16]
PEFY-WL18NMAU-A	643 [25-6/16]	1154 [45-7/16]	325 [12-13/16]	525 [20-11/16]	130 [5-2/16]
PEFY-WL24NMAU-A	643 [25-6/16]	1154 [45-7/16]	325 [12-13/16]	525 [20-11/16]	130 [5-2/16]
PEFY-WL27NMAU-A	643 [25-6/16]	1154 [45-7/16]	325 [12-13/16]	525 [20-11/16]	130 [5-2/16]
PEFY-WL30NMAU-A	643 [25-6/16]	1154 [45-7/16]	325 [12-13/16]	525 [20-11/16]	130 [5-2/16]
PEFY-WL36NMAU-A	643 [25-6/16]	1454 [57-4/16]	330 [13]	675 [26-10/16]	130 [5-2/16]
PEFY-WL48NMAU-A	643 [25-6/16]	1654 [65-2/16]	332 [13-2/16]	725 [28-9/16]	130 [5-2/16]

PEFY-WL06, 08, 12, 15, 18, 24, 27, 30, 36, 48NMAU-A



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

SYMBOL EXPLANATION

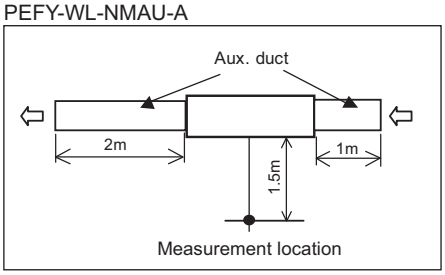
SYMBOL	NAME
DP	Drain Pump
F2	Fuse DC400V 3A SHV11
FS	Float switch
MF	Fan Motor
TB2	Power source terminal block
TB5	Transmission terminal block
TB15	Transmission terminal block
TH21	Thermistor (inlet air temp. detection)
TH22	Thermistor (piping temp.detection/inlet water)
TH23	Thermistor (piping temp.detection/outlet water)

SYMBOL	NAME
I.B.	Indoor controller board
SA	Arrester
F1	Fuse AC250V 6.3A (TP) M-BL8A04
ZNR001,002	Varistor
CN2A	Connector (0-10V Analog input)
CN22	Connector (Fan control)
CN24-1	Connector (Heater control 1st)
CN24-2	Connector (Heater control 2nd)
CN27	Connector (Damper)
CN32	Connector (Remote switch)
CN41	Connector (HA terminal-A)
CN51	Connector (Centrally control)
CN52	Connector (Remote indication)
CN90	Connector (Wireless)
CN105	Connector (IT terminal)

SYMBOL	NAME
I.B.	Indoor controller board
SW1	Switch (for mode selection)
SW2	Switch (for capacity code)
SW3	Switch (for mode selection)
SW4	Switch (for model selection)
SW11	Switch (1's digit address set)
SW12	Switch (10's digit address set)
SW14	Switch (BRANCH No.)
SW21	Switch (for static pressure selection)
SW22	Switch (Wireless pair No.)
SWE	Connector (emergency operation)
LED1	LED(Power supply)
LED2	LED(Remote controller supply)

5-1. Sound levels

PEFY-WL-NMAU-A



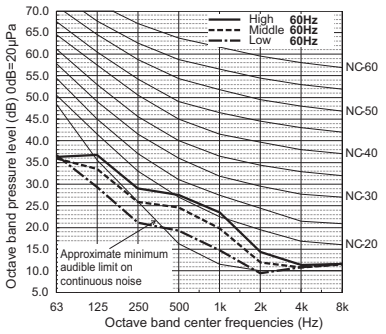
* Measured in anechoic room.

Sound level at anechoic room : Low-Mid-High

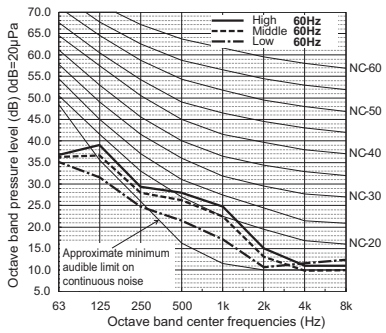
Model	Sound level dB(A)				
	35Pa	50Pa	70Pa	100Pa	150Pa
PEFY-WL06NMAU-A	22-26-29	24-28-30	26-30-34	28-32-36	32-36-40
PEFY-WL08NMAU-A	22-26-29	24-28-30	26-30-34	28-32-36	32-36-40
PEFY-WL12NMAU-A	26-29-32	26-30-34	28-32-36	29-33-37	32-36-40
PEFY-WL15NMAU-A	25-29-32	27-31-34	28-32-36	30-34-38	34-38-42
PEFY-WL18NMAU-A	28-33-36	29-33-37	31-35-39	33-38-42	36-41-45
PEFY-WL24NMAU-A	31-35-39	31-35-39	32-37-40	34-38-42	37-41-45
PEFY-WL27NMAU-A	31-35-39	31-35-39	32-37-40	34-38-42	37-41-45
PEFY-WL30NMAU-A	31-35-39	31-35-39	32-37-40	34-38-42	37-41-45
PEFY-WL36NMAU-A	34-39-42	35-39-43	36-40-44	38-42-46	41-45-49
PEFY-WL48NMAU-A	33-37-41	34-38-42	35-39-43	37-41-45	39-43-47

5-2. NC curves

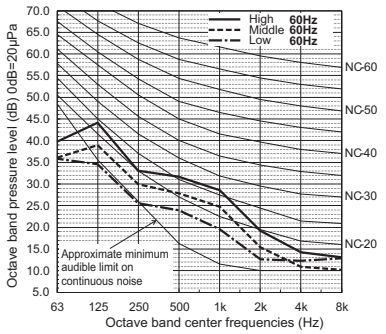
PEFY-WL06,08NMAU-A
External Static Pressure: 35Pa [0.14in.WG]
Power Source: 208-230V



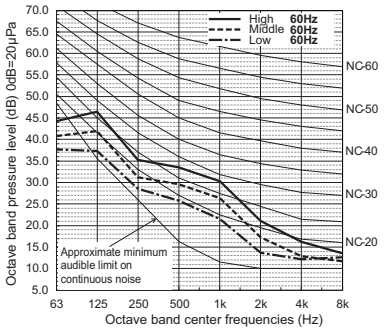
PEFY-WL06,08NMAU-A
External Static Pressure: 50Pa [0.20in.WG]
Power Source: 208-230V



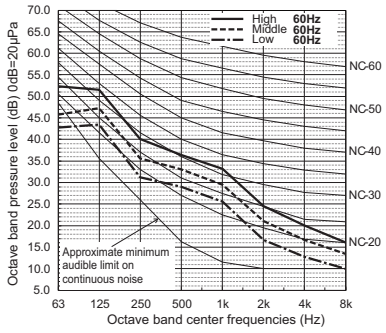
PEFY-WL06,08NMAU-A
External Static Pressure: 70Pa [0.28in.WG]
Power Source: 208-230V



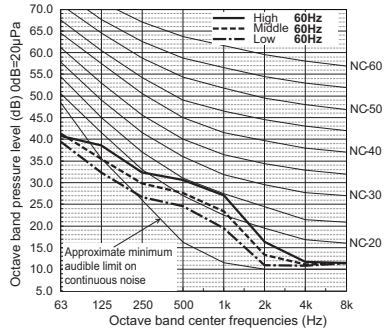
PEFY-WL06,08NMAU-A
External Static Pressure: 100Pa [0.40in.WG]
Power Source: 208-230V



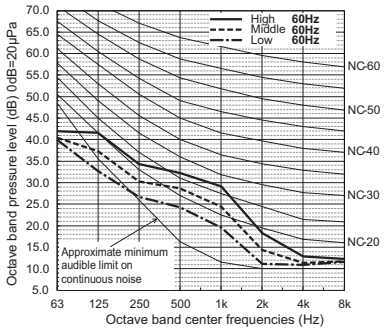
PEFY-WL06,08NMAU-A
External Static Pressure: 150Pa [0.60in.WG]
Power Source: 208-230V



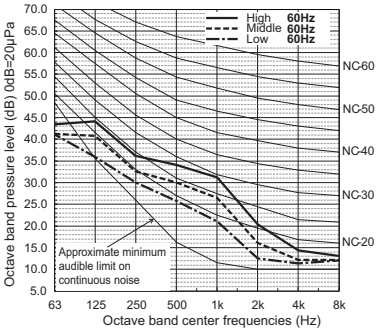
PEFY-WL12NMAU-A
External Static Pressure: 35Pa [0.14in.WG]
Power Source: 208-230V



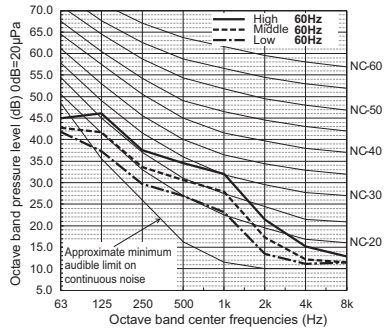
PEFY-WL12NMAU-A
External Static Pressure: 50Pa [0.20in.WG]
Power Source: 208-230V



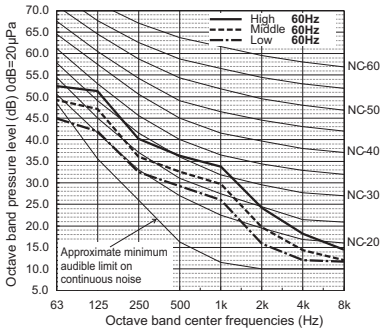
PEFY-WL12NMAU-A
External Static Pressure: 70Pa [0.28in.WG]
Power Source: 208-230V



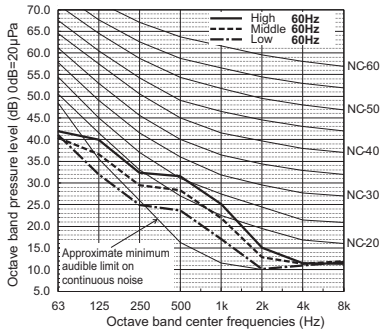
PEFY-WL12NMAU-A
External Static Pressure: 100Pa [0.40in.WG]
Power Source: 208-230V



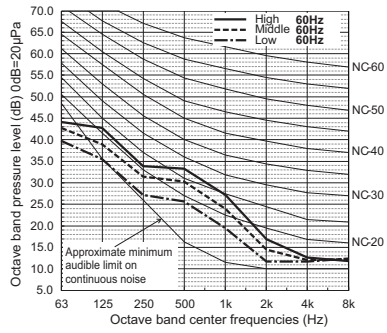
PEFY-WL12NMAU-A
External Static Pressure: 150Pa [0.60in.WG]
Power Source: 208-230V



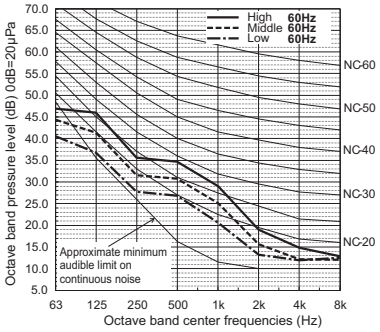
PEFY-WL15NMAU-A
External Static Pressure: 35Pa [0.14in.WG]
Power Source: 208-230V



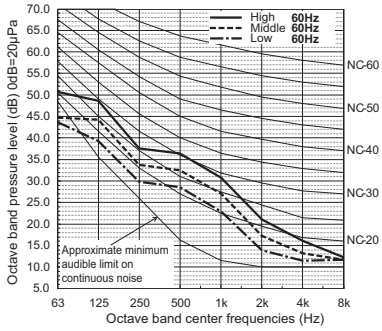
PEFY-WL15NMAU-A
External Static Pressure: 50Pa [0.20in.WG]
Power Source: 208-230V



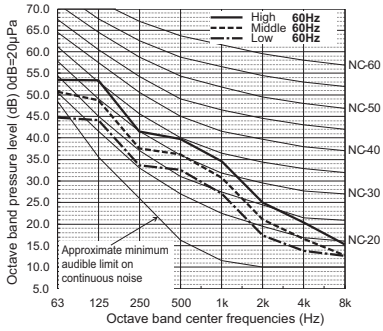
PEFY-WL15NMAU-A
External Static Pressure: 70Pa [0.28in.WG]
Power Source: 208-230V



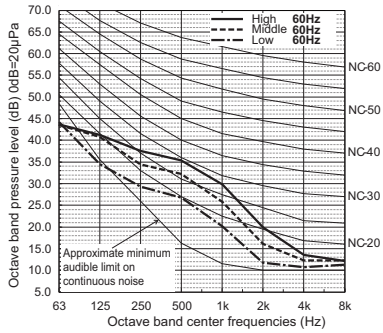
PEFY-WL15NMAU-A
External Static Pressure: 100Pa [0.40in.WG]
Power Source: 208-230V



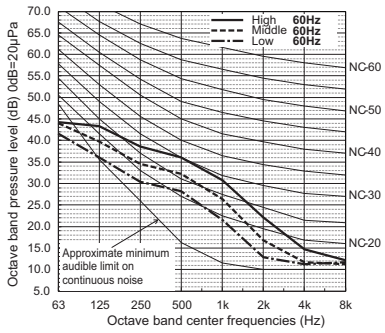
PEFY-WL15NMAU-A
External Static Pressure: 150Pa [0.60in.WG]
Power Source: 208-230V



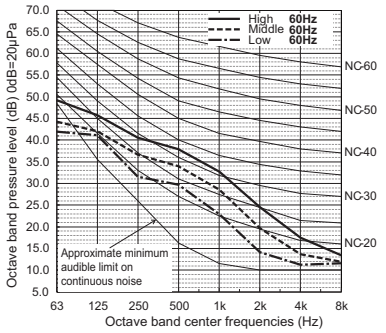
PEFY-WL18NMAU-A
External Static Pressure: 35Pa [0.14in.WG]
Power Source: 208-230V



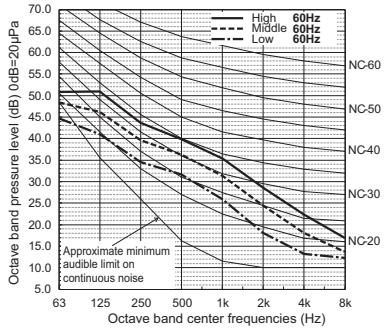
PEFY-WL18NMAU-A
External Static Pressure: 50Pa [0.20in.WG]
Power Source: 208-230V



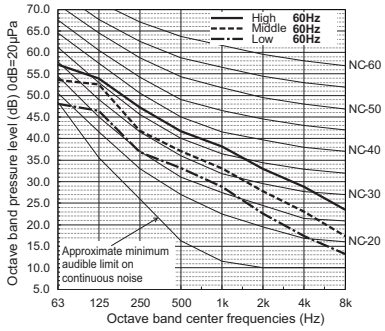
PEFY-WL18NMAU-A
External Static Pressure: 70Pa [0.28in.WG]
Power Source: 208-230V



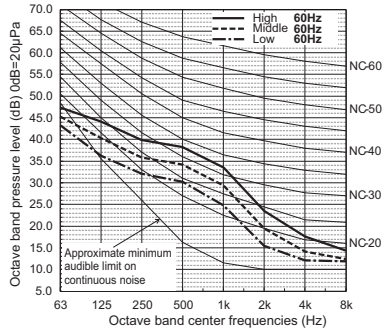
PEFY-WL18NMAU-A
External Static Pressure: 100Pa [0.40in.WG]
Power Source: 208-230V



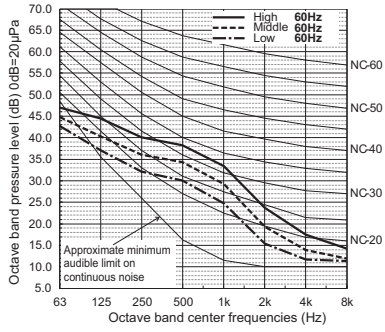
PEFY-WL18NMAU-A
External Static Pressure: 150Pa [0.60in.WG]
Power Source: 208-230V



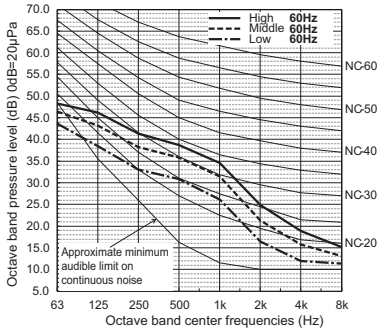
PEFY-WL24,27,30NMAU-A
External Static Pressure: 35Pa [0.14in.WG]
Power Source: 208-230V



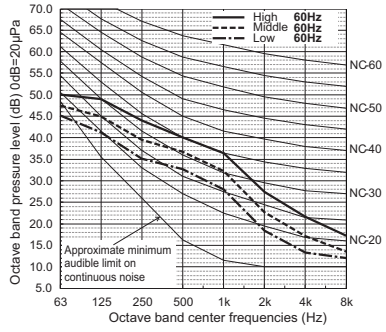
PEFY-WL24,27,30NMAU-A
External Static Pressure: 50Pa [0.20in.WG]
Power Source: 208-230V



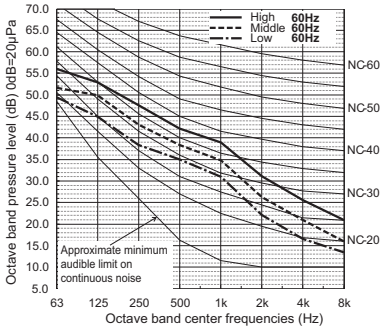
PEFY-WL24,27,30NMAU-A
External Static Pressure: 70Pa [0.28in.WG]
Power Source: 208-230V



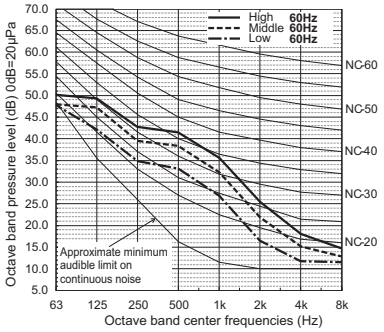
PEFY-WL24,27,30NMAU-A
External Static Pressure: 100Pa [0.40in.WG]
Power Source: 208-230V



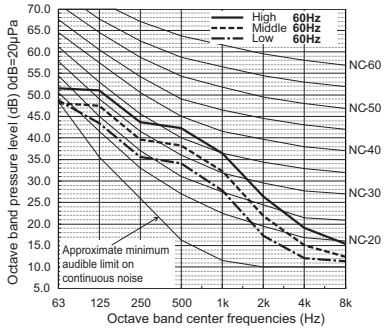
PEFY-WL24,27,30NMAU-A
External Static Pressure: 150Pa [0.60in.WG]
Power Source: 208-230V



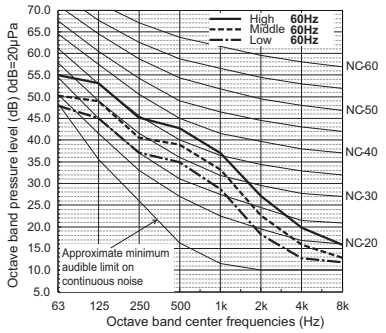
PEFY-WL36NMAU-A
External Static Pressure: 35Pa [0.14in.WG]
Power Source: 208-230V



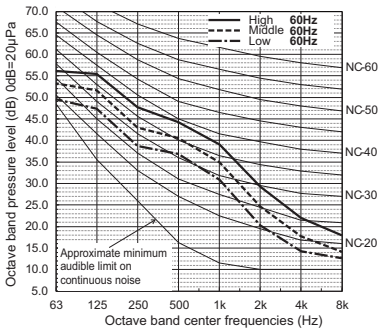
PEFY-WL36NMAU-A
External Static Pressure: 50Pa [0.20in.WG]
Power Source: 208-230V



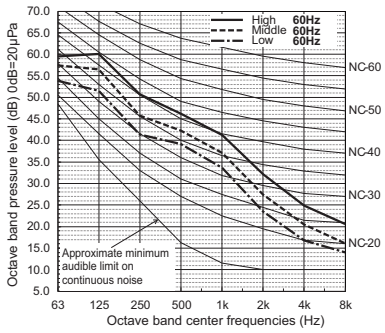
PEFY-WL36NMAU-A
External Static Pressure: 70Pa [0.28in.WG]
Power Source: 208-230V



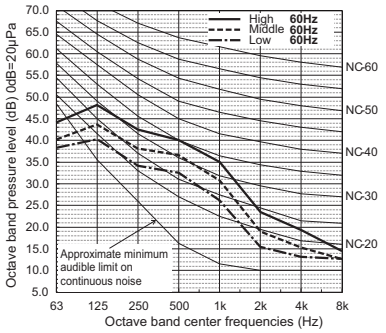
PEFY-WL36NMAU-A
External Static Pressure: 100Pa [0.40in.WG]
Power Source: 208-230V



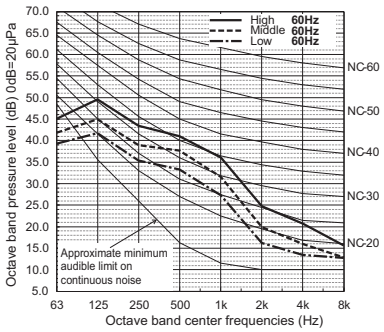
PEFY-WL36NMAU-A
External Static Pressure: 150Pa [0.60in.WG]
Power Source: 208-230V



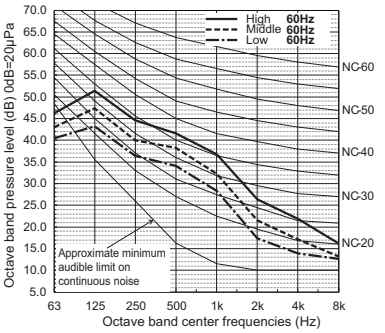
PEFY-WL48NMAU-A
External Static Pressure: 35Pa [0.14in.WG]
Power Source: 208-230V



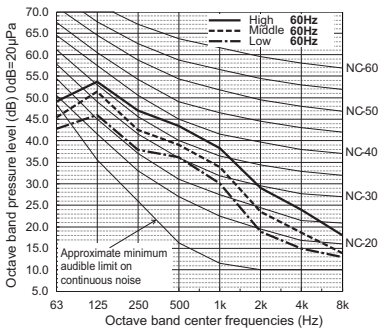
PEFY-WL48NMAU-A
External Static Pressure: 50Pa [0.20in.WG]
Power Source: 208-230V



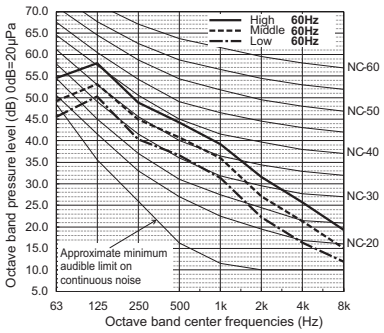
PEFY-WL48NMAU-A
External Static Pressure: 70Pa [0.28in.WG]
Power Source: 208-230V



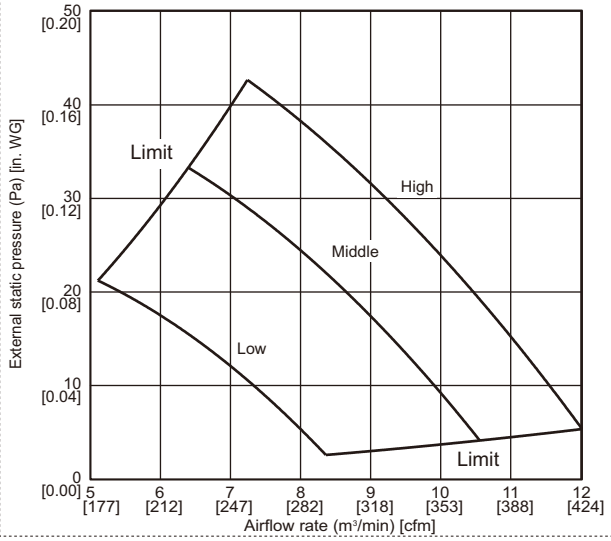
PEFY-WL48NMAU-A
External Static Pressure: 100Pa [0.40in.WG]
Power Source: 208-230V



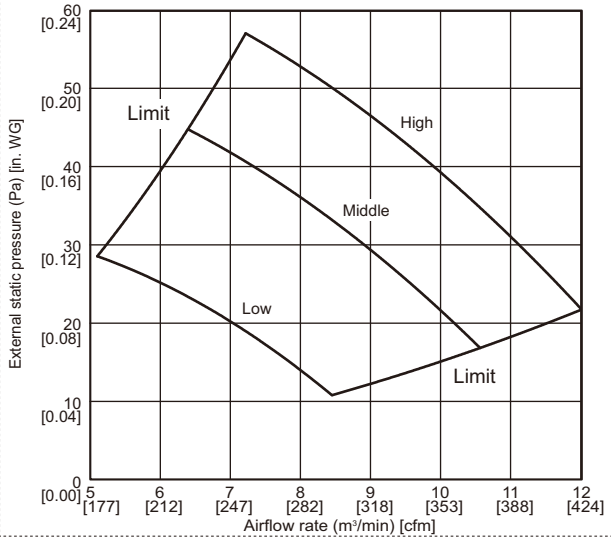
PEFY-WL48NMAU-A
External Static Pressure: 150Pa [0.60in.WG]
Power Source: 208-230V



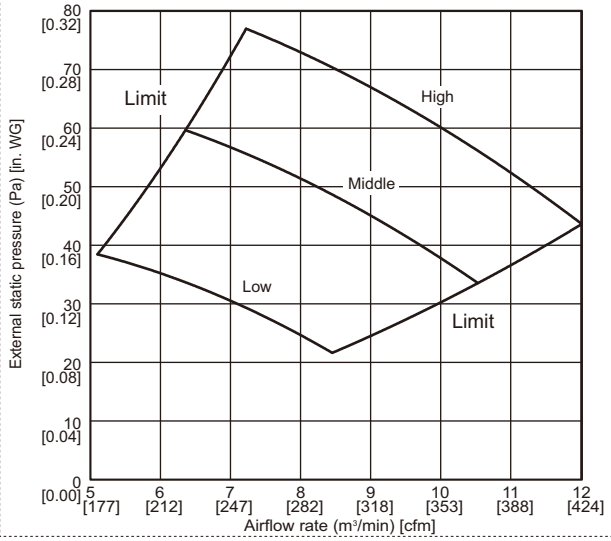
PEFY-WL06,08NMAU-A
External static pressure : 35Pa [0.14in.WG]
Power source : 208-230V



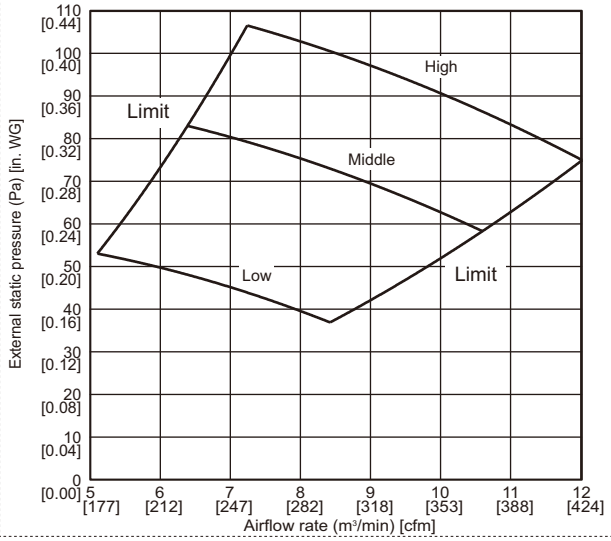
PEFY-WL06,08NMAU-A
External static pressure : 50Pa [0.20in.WG]
Power source : 208-230V



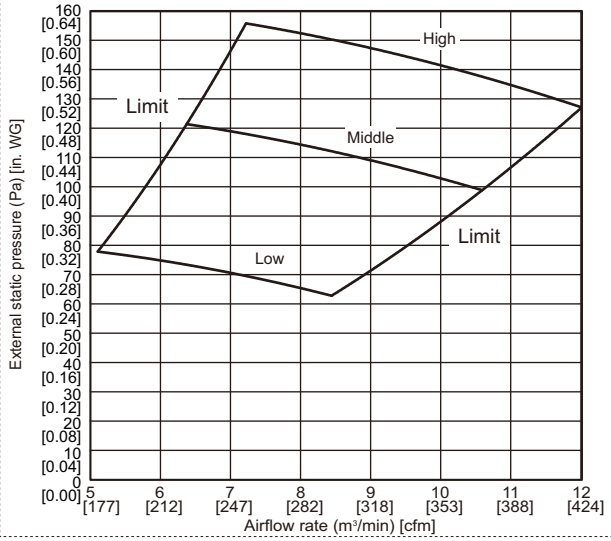
PEFY-WL06,08NMAU-A
External static pressure : 70Pa [0.28in.WG]
Power source : 208-230V



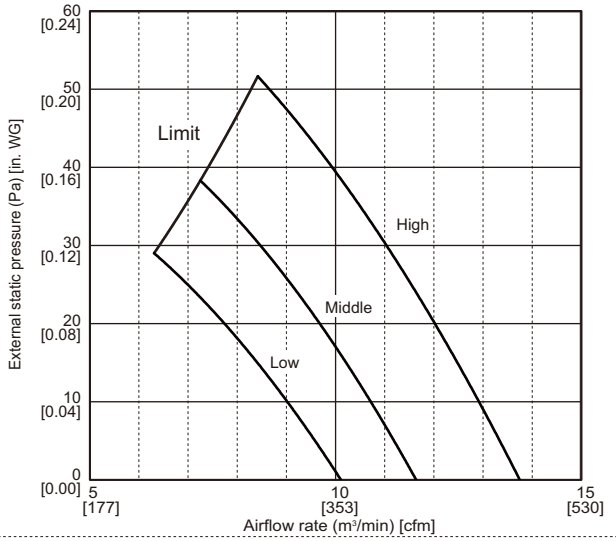
PEFY-WL06,08NMAU-A
External static pressure : 100Pa [0.40in.WG]
Power source : 208-230V



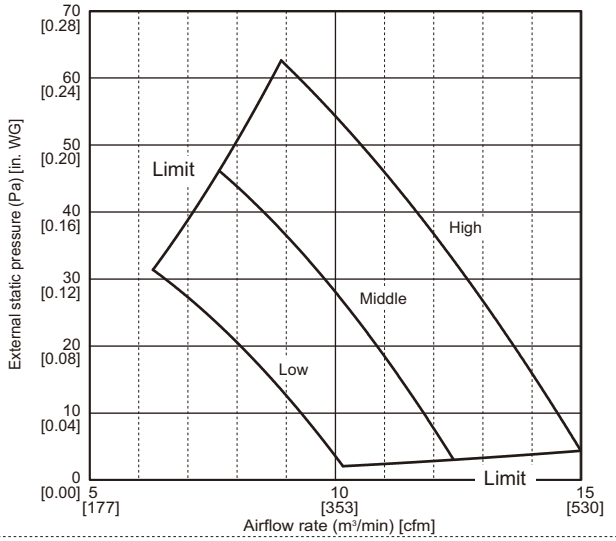
PEFY-WL06,08NMAU-A
External static pressure : 150Pa [0.60in.WG]
Power source : 208-230V



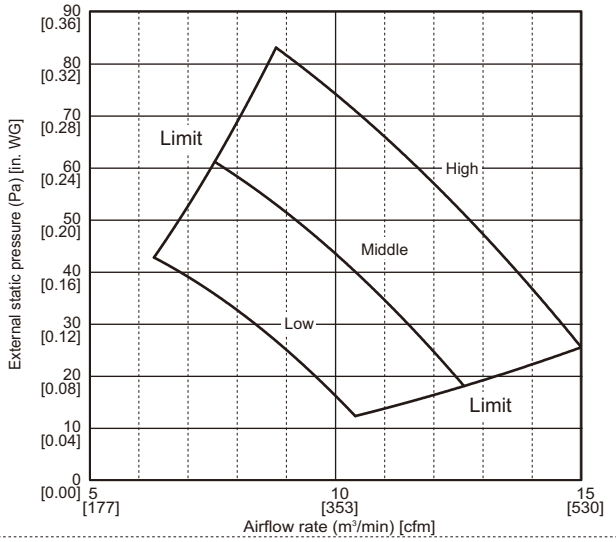
PEFY-WL12NMAU-A
External static pressure : 35Pa [0.14in.WG]
Power source : 208-230V



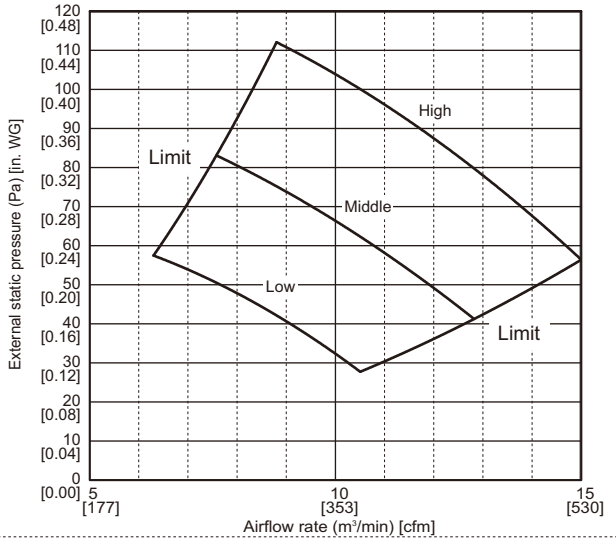
PEFY-WL12NMAU-A
External static pressure : 50Pa [0.20in.WG]
Power source : 208-230V



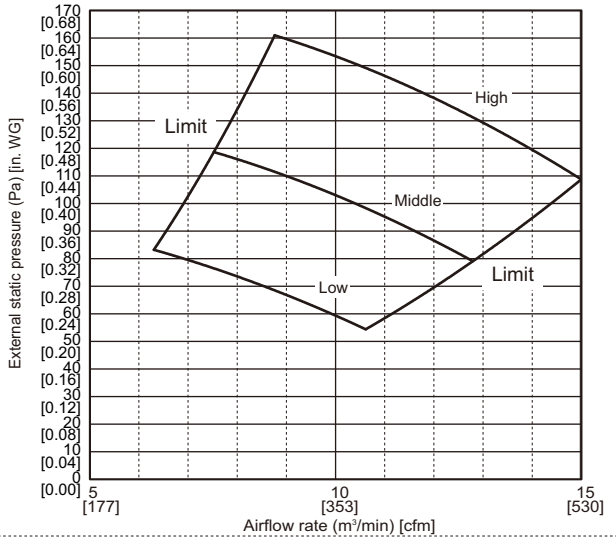
PEFY-WL12NMAU-A
External static pressure : 70Pa [0.28in.WG]
Power source : 208-230V



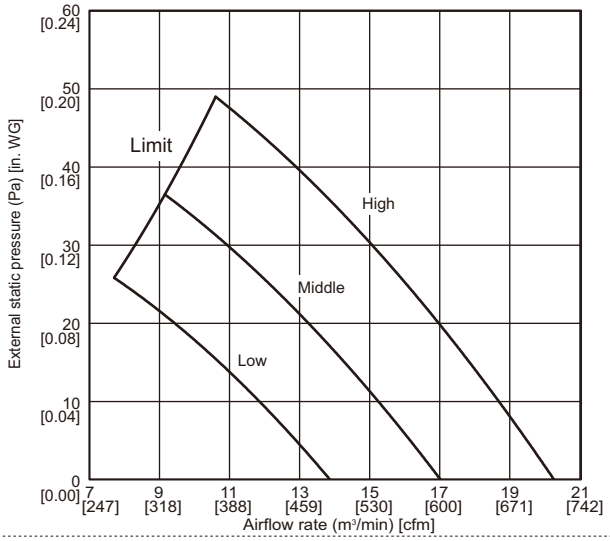
PEFY-WL12NMAU-A
External static pressure : 100Pa [0.40in.WG]
Power source : 208-230V



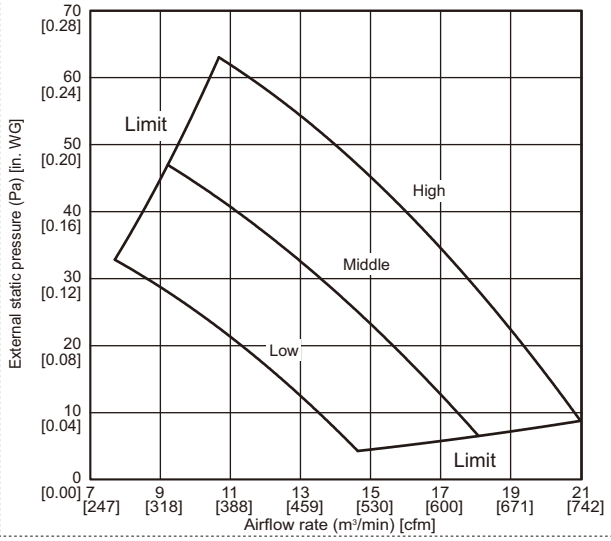
PEFY-WL12NMAU-A
External static pressure : 150Pa [0.60in.WG]
Power source : 208-230V



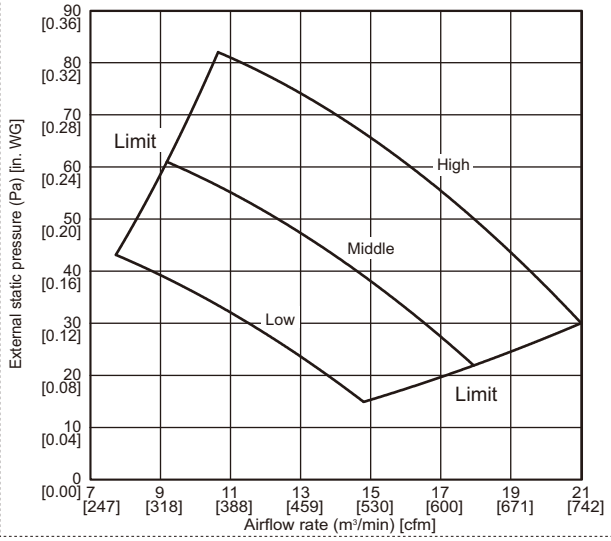
PEFY-WL15NMAU-A
External static pressure : 35Pa [0.14in.WG]
Power source : 208-230V



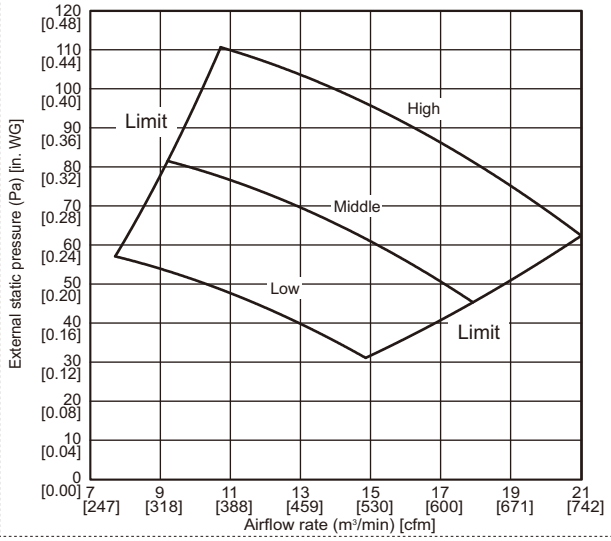
PEFY-WL15NMAU-A
External static pressure : 50Pa [0.20in.WG]
Power source : 208-230V



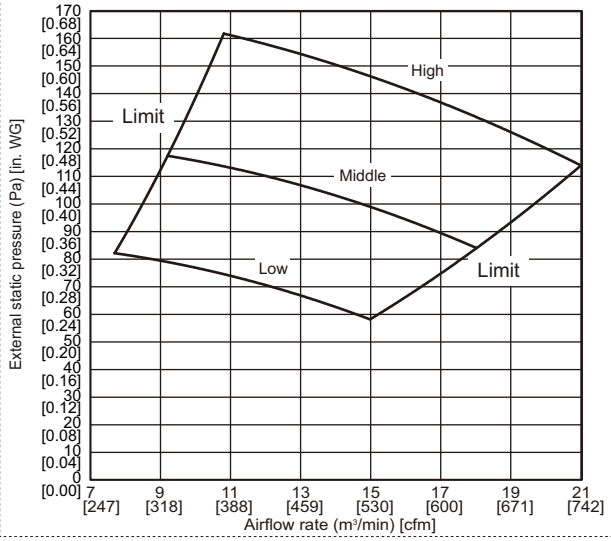
PEFY-WL15NMAU-A
External static pressure : 70Pa [0.28in.WG]
Power source : 208-230V



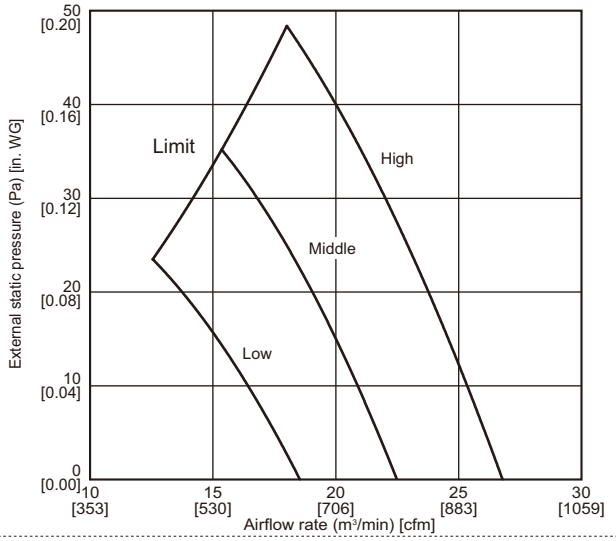
PEFY-WL15NMAU-A
External static pressure : 100Pa [0.40in.WG]
Power source : 208-230V



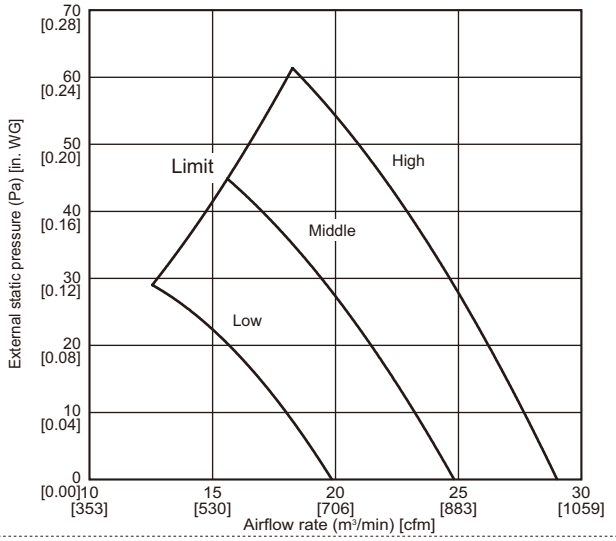
PEFY-WL15NMAU-A
External static pressure : 150Pa [0.60in.WG]
Power source : 208-230V



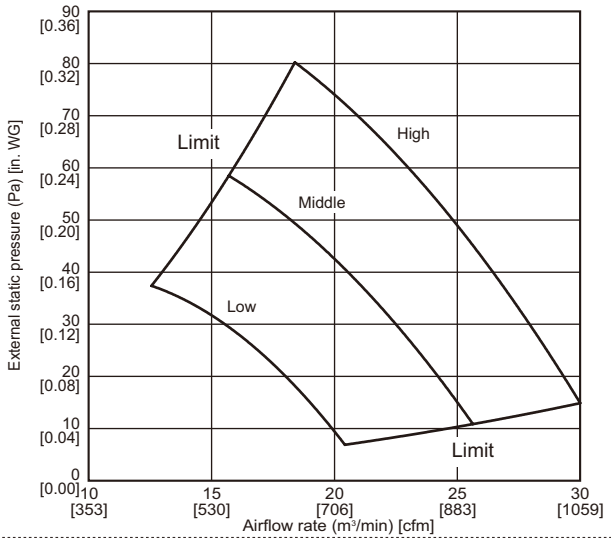
PEFY-WL18NMAU-A
External static pressure : 35Pa [0.14in.WG]
Power source : 208-230V



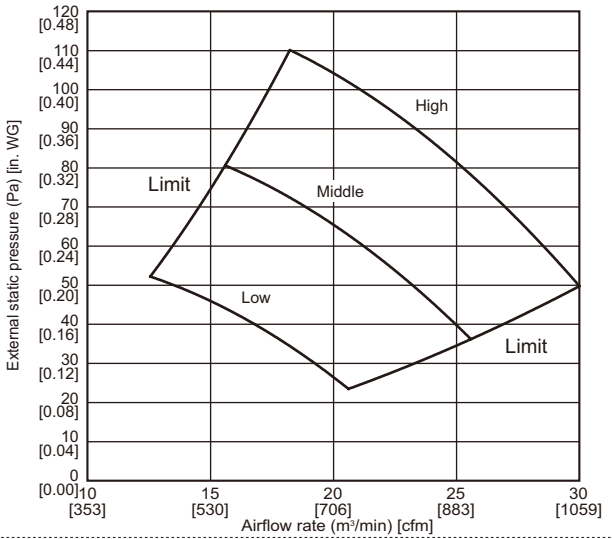
PEFY-WL18NMAU-A
External static pressure : 50Pa [0.20in.WG]
Power source : 208-230V



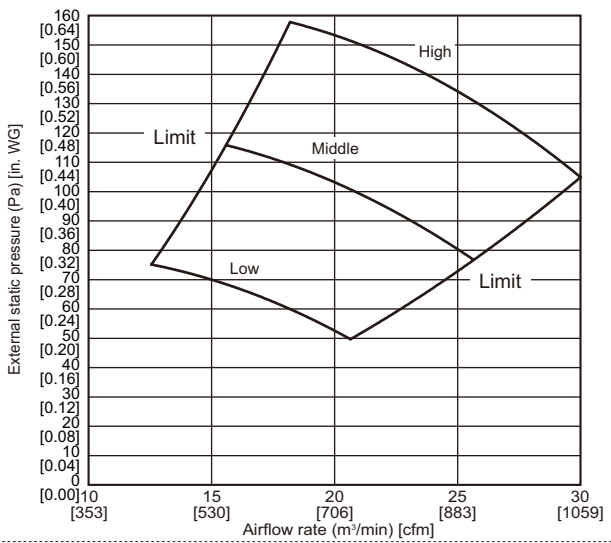
PEFY-WL18NMAU-A
External static pressure : 70Pa [0.28in.WG]
Power source : 208-230V



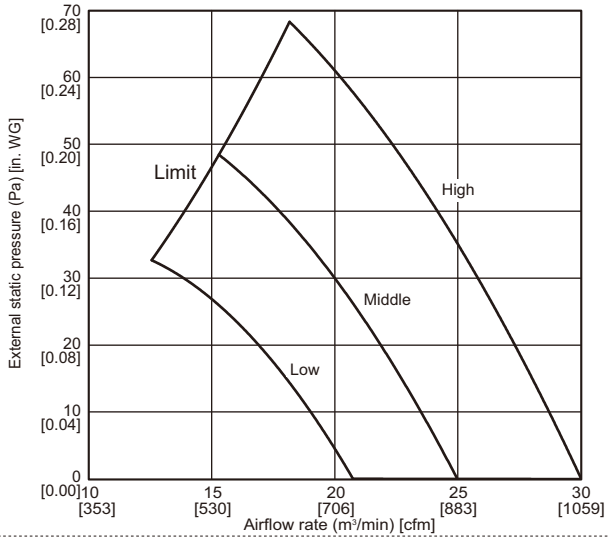
PEFY-WL18NMAU-A
External static pressure : 100Pa [0.40in.WG]
Power source : 208-230V



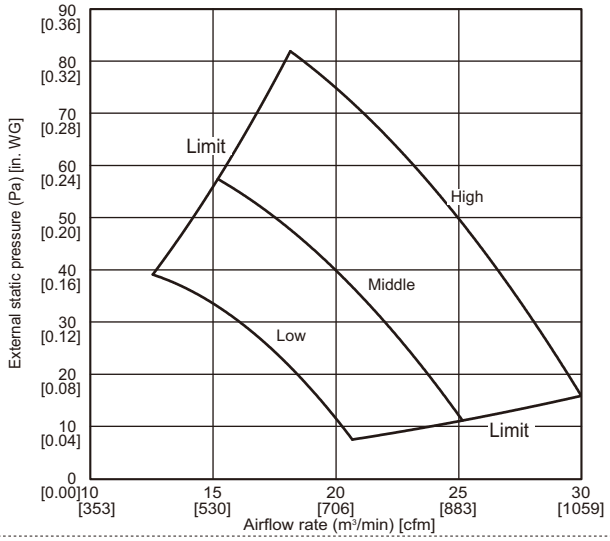
PEFY-WL18NMAU-A
External static pressure : 150Pa [0.60in.WG]
Power source : 208-230V



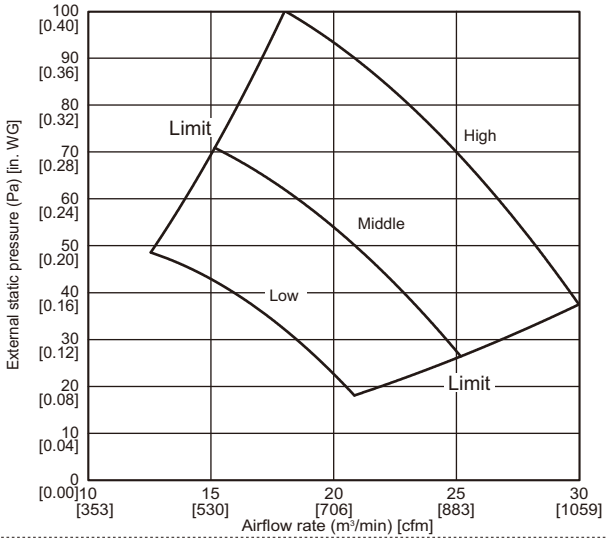
PEFY-WL24,27,30NMAU-A
External static pressure : 35Pa [0.14in.WG]
Power source : 208-230V



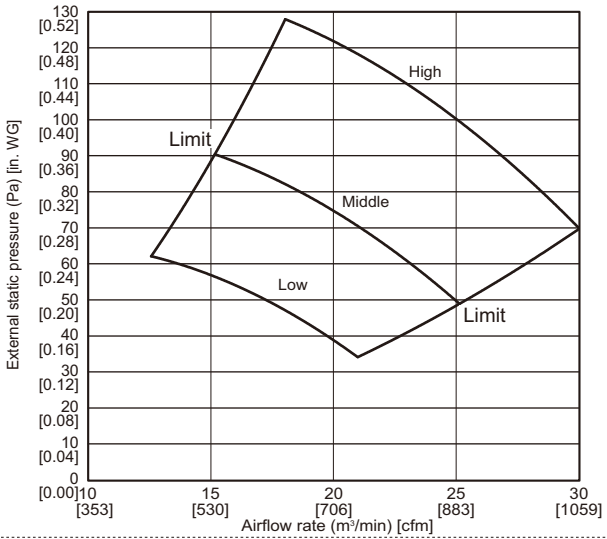
PEFY-WL24,27,30NMAU-A
External static pressure : 50Pa [0.20in.WG]
Power source : 208-230V



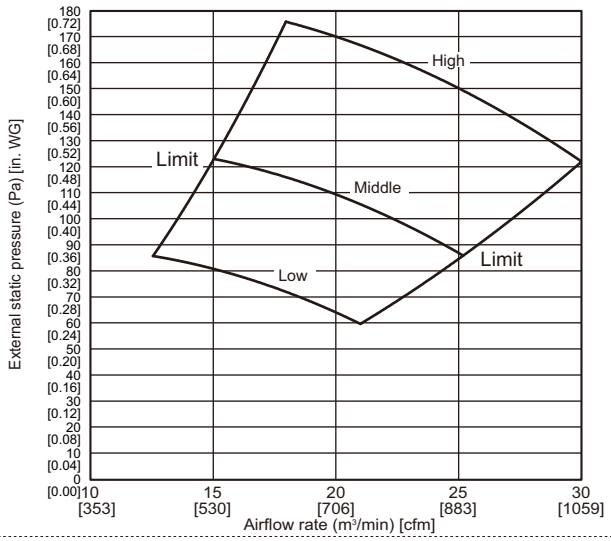
PEFY-WL24,27,30NMAU-A
External static pressure : 70Pa [0.28in.WG]
Power source : 208-230V



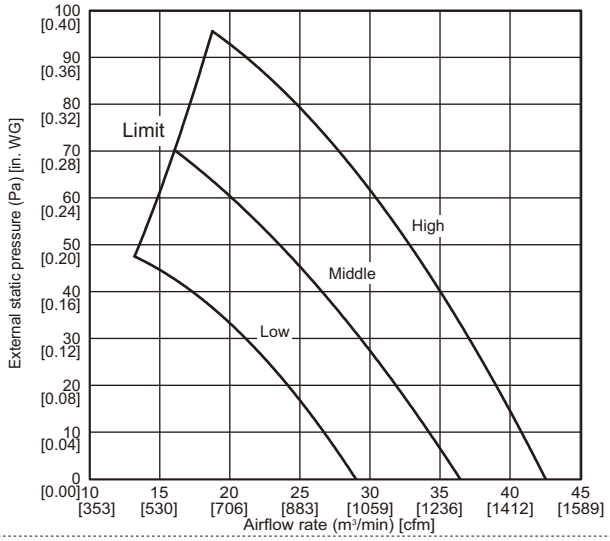
PEFY-WL24,27,30NMAU-A
External static pressure : 100Pa [0.40in.WG]
Power source : 208-230V



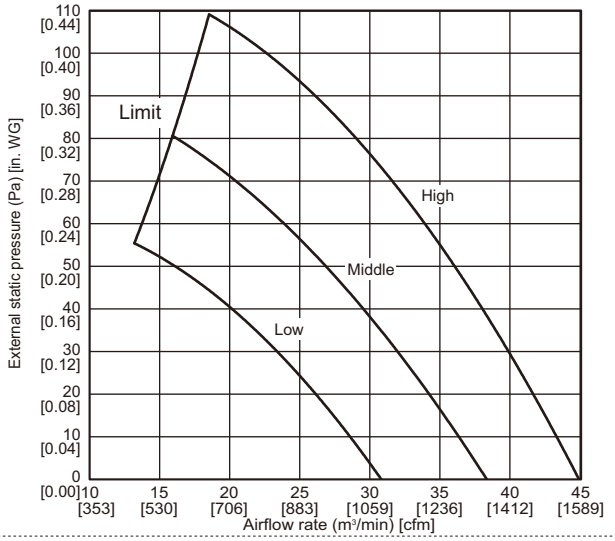
PEFY-WL24,27,30NMAU-A
External static pressure : 150Pa [0.60in.WG]
Power source : 208-230V



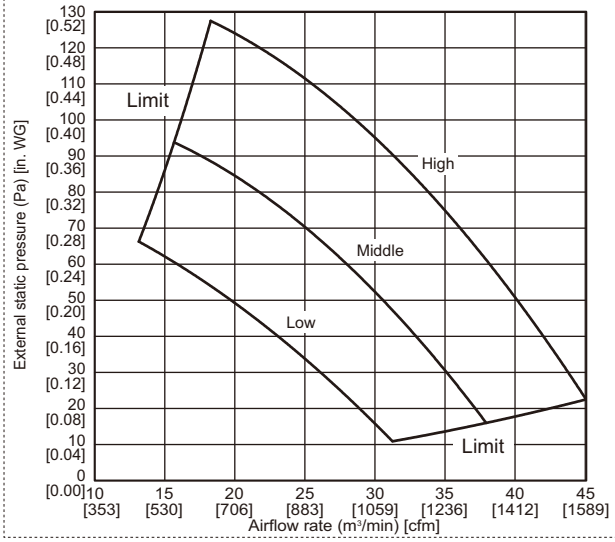
PEFY-WL36NMAU-A
External static pressure : 35Pa [0.14in.WG]
Power source : 208-230V



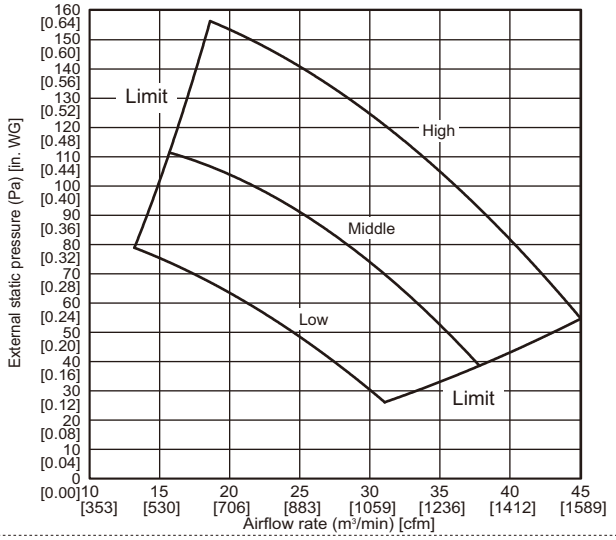
PEFY-WL36NMAU-A
External static pressure : 50Pa [0.20in.WG]
Power source : 208-230V



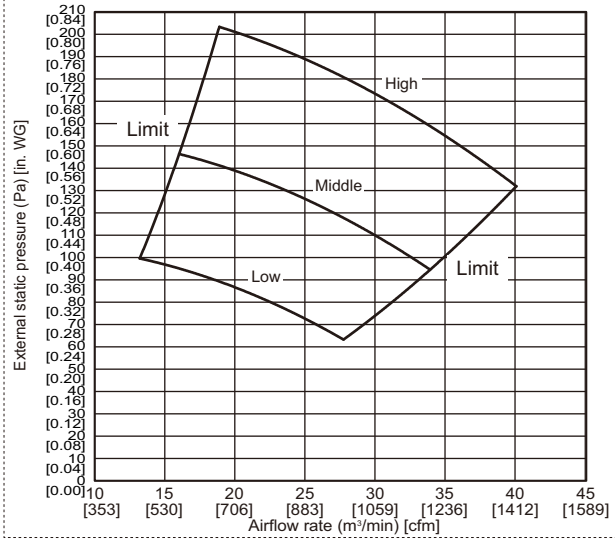
PEFY-WL36NMAU-A
External static pressure : 70Pa [0.28in.WG]
Power source : 208-230V



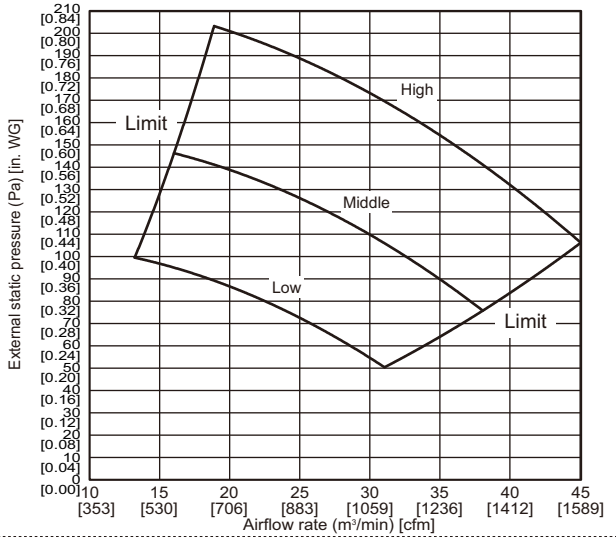
PEFY-WL36NMAU-A
External static pressure : 100Pa [0.40in.WG]
Power source : 208-230V



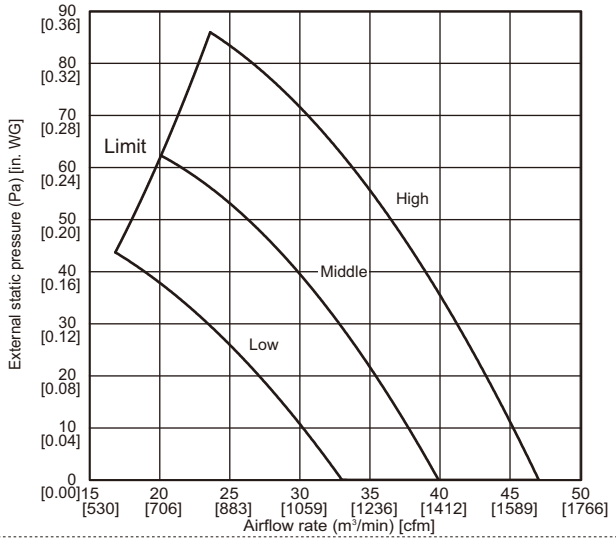
PEFY-WL36NMAU-A
External static pressure : 150Pa [0.60in.WG]
Power source : 208V



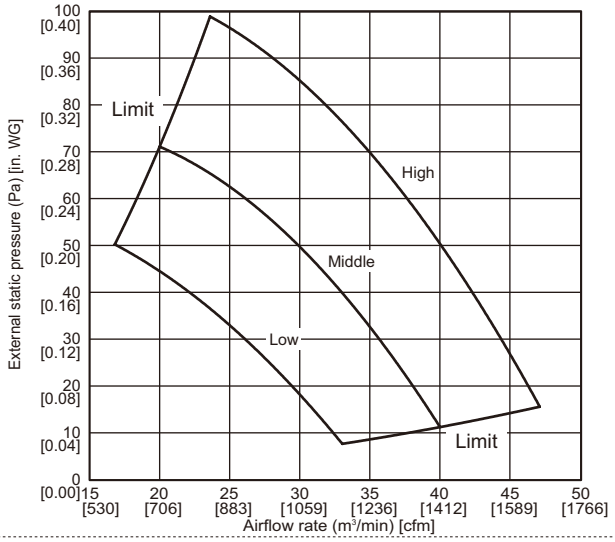
PEFY-WL36NMAU-A
External static pressure : 150Pa [0.60in.WG]
Power source : 230V



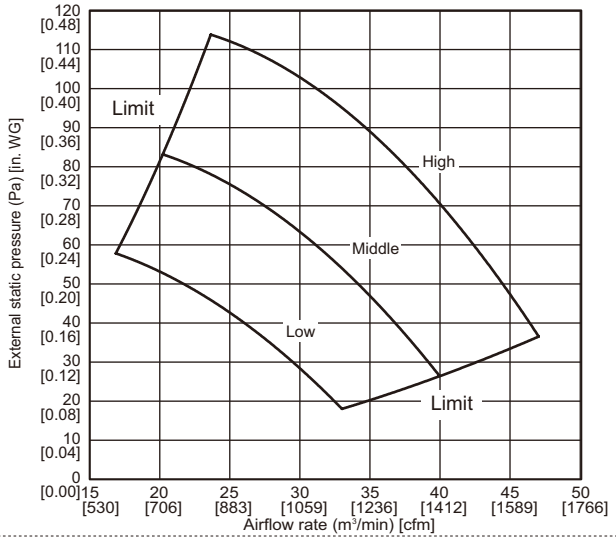
PEFY-WL48NMAU-A
External static pressure : 35Pa [0.14in.WG]
Power source : 208-230V



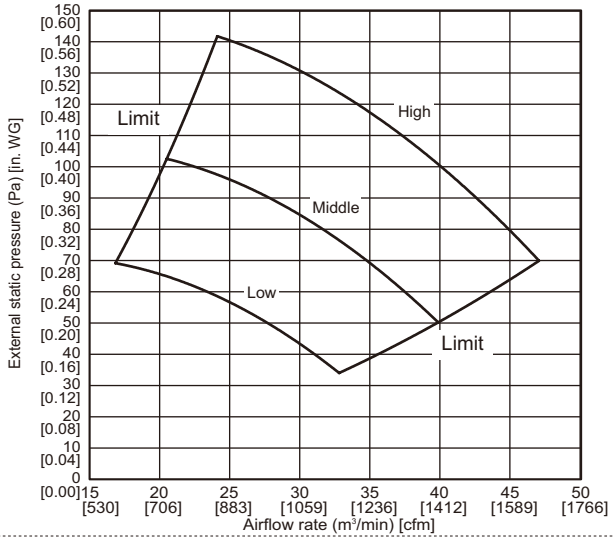
PEFY-WL48NMAU-A
External static pressure : 50Pa [0.20in.WG]
Power source : 208-230V



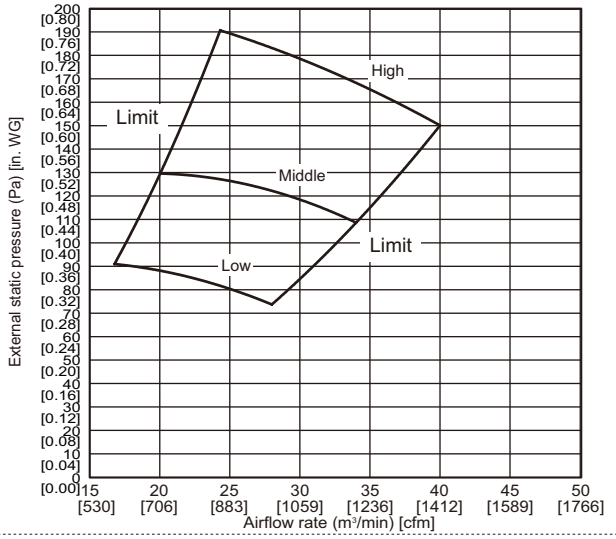
PEFY-WL48NMAU-A
External static pressure : 70Pa [0.28in.WG]
Power source : 208-230V



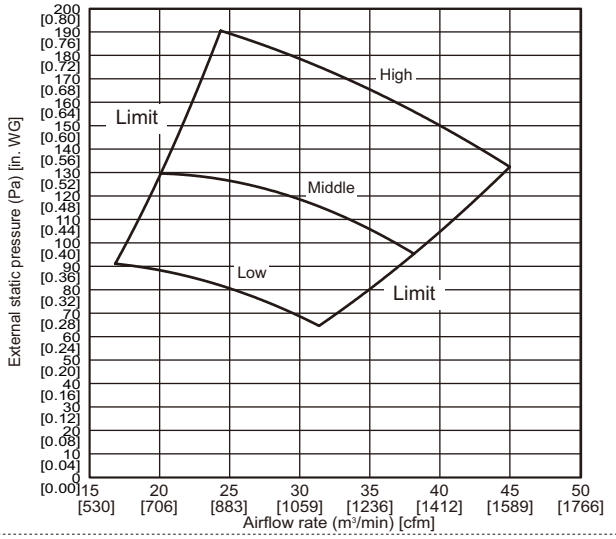
PEFY-WL48NMAU-A
External static pressure : 100Pa [0.40in.WG]
Power source : 208-230V



PEFY-WL48NMAU-A
External static pressure : 150Pa [0.60in.WG]
Power source : 208V

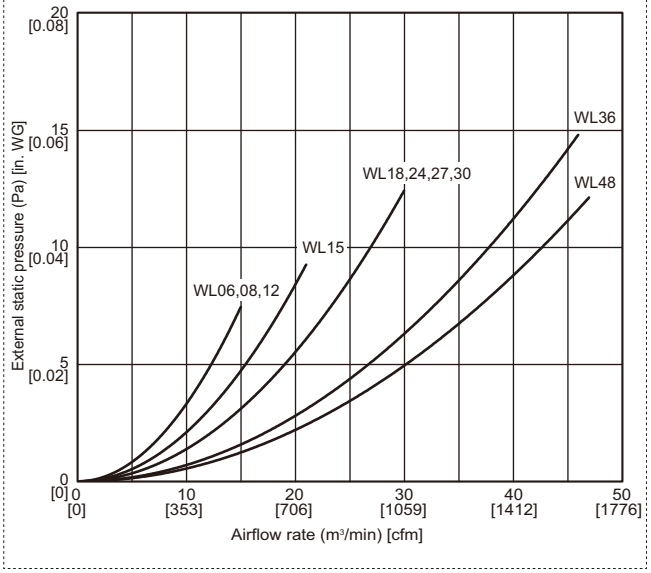


PEFY-WL48NMAU-A
External static pressure : 150Pa [0.60in.WG]
Power source : 230V

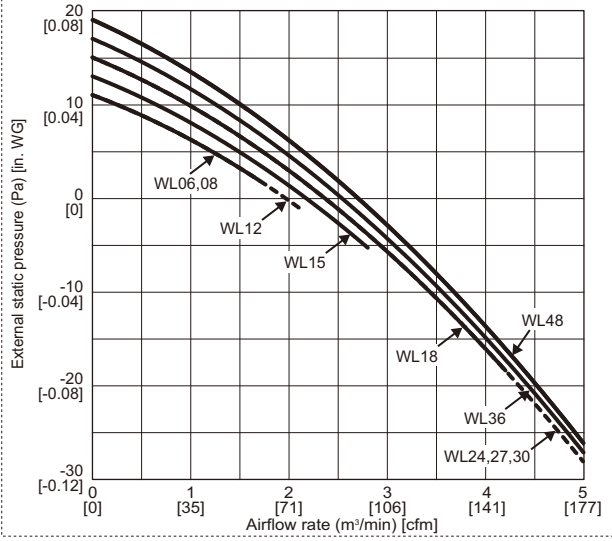


Air filter static pressure cuves

PEFY-WL06,08,12,15,18,24,27,30,36,48NMAU-A
Air filter
Power source : 208-230V 60Hz



PEFY-WL06,08,12,15,18,24,27,30,36,48NMAU-A



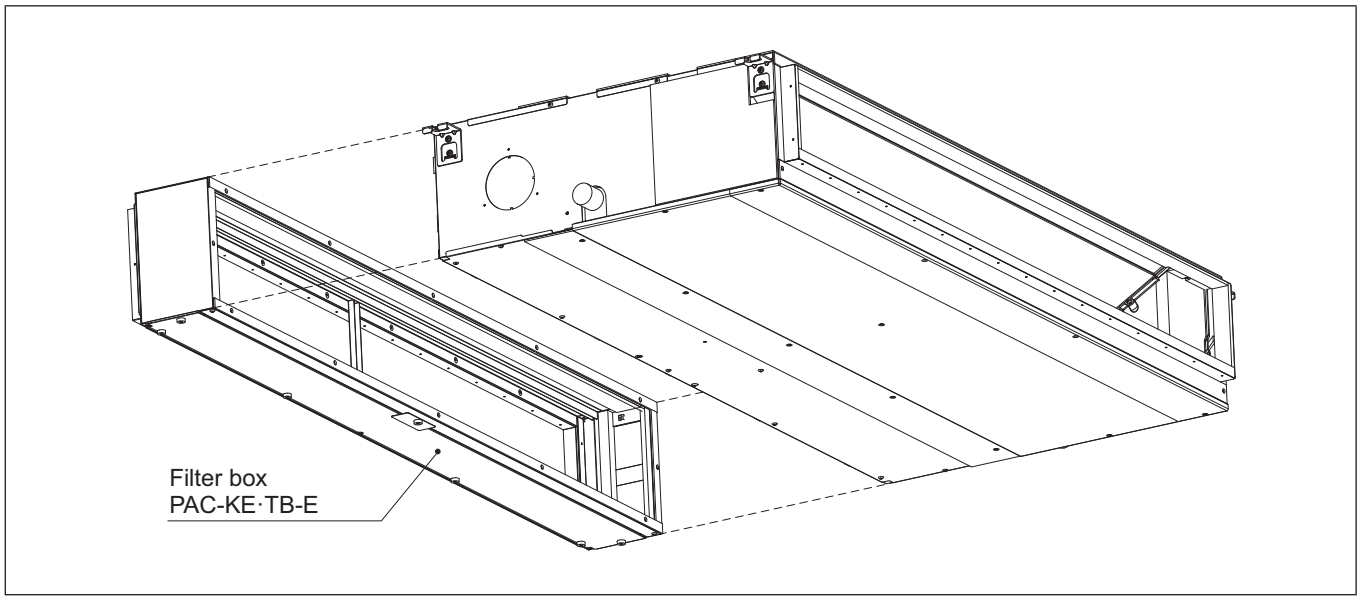
Symbols: MCA: Minimum Circuit Ampacity (=1.25 × FLA) FLA: Full Load Amps
IFM: Indoor Fan Motor Output: Fan motor rated output

Model	Indoor Unit				IFM	
	Hz	Volts	Voltage range	MCA (A)	Output (kW)	FLA (A)
PEFY-WL06NMAU-A	60Hz	208 / 230V	188 to 253V	1.75	0.085	1.40
PEFY-WL08NMAU-A				1.75	0.085	1.40
PEFY-WL12NMAU-A				2.13	0.085	1.70
PEFY-WL15NMAU-A				2.88	0.121	2.30
PEFY-WL18NMAU-A				2.81	0.121	2.25
PEFY-WL24NMAU-A				2.88	0.121	2.30
PEFY-WL27NMAU-A				2.88	0.121	2.30
PEFY-WL30NMAU-A				2.88	0.121	2.30
PEFY-WL36NMAU-A				4.25	0.300	3.40
PEFY-WL48NMAU-A				4.38	0.300	3.50

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

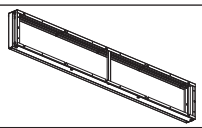
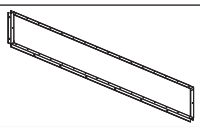
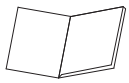
	Filter box	External heater adapter
PEFY-WL06, 08, 12NMAU-A	PAC-KE91TB-E	PAC-YU25HT
PEFY-WL15NMAU-A	PAC-KE92TB-E	PAC-YU25HT
PEFY-WL18, 24, 27, 30NMAU-A	PAC-KE93TB-E	PAC-YU25HT
PEFY-WL36NMAU-A	PAC-KE94TB-E	PAC-YU25HT
PEFY-WL48NMAU-A	PAC-KE95TB-E	PAC-YU25HT

● PEFY-WL-NMAU-A



9-2. Filter box

PAC-KE-TB-E

Item	1 Screw	2 Filter box	3 FLANGE	4 Installation manual	
Quantity	30	1	1	1	
Shape					

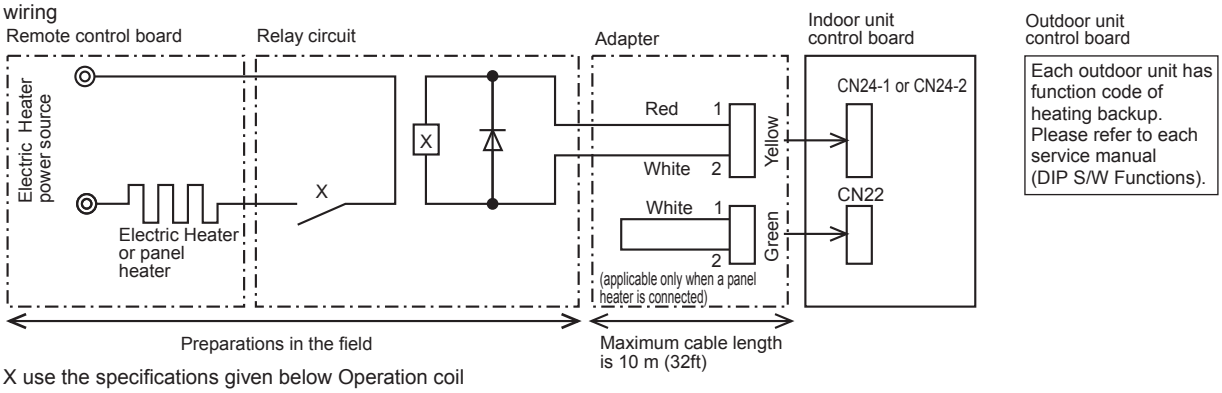
Detailed installation information should be referred to its Installation Manual.

9-3. External heater adapter

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

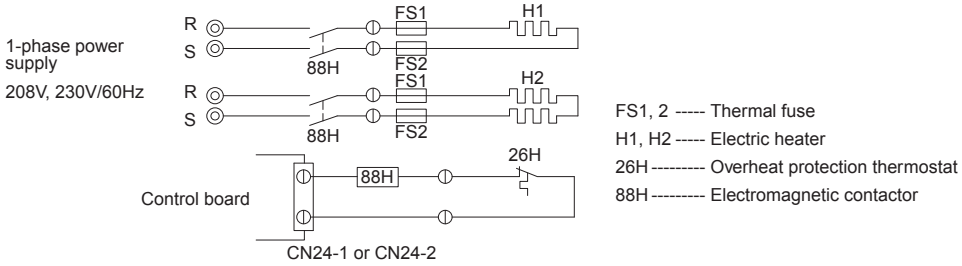
A basic connection method is shown as follows:(For details, refer to its Installation Manual.)

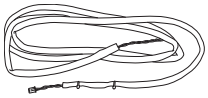
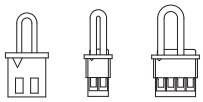
(1) Basic wiring



For relay X use the specifications given below Operation coil
Rated voltage : 12VDC
Power consumption : 1W or less
* Use the diode that is recommended by the relay manufacturer at both ends of the relay coil.
The length of the electrical wiring for the PAC-YU25HT is 2 meters (6-1/2 ft).
To extend this length, use sheathed 2-core cable.
Control cable type : CVV, CVS, CPEV or equivalent.
Cable size : 0.5 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 refrerred to its Installation Manual.

⚠Warning

■ Do not use refrigerant other than the type indicated in the manuals provided with the unit and on the nameplate.
- Doing so may cause the unit or pipes to burst, or result in explosion or fire during use, repair, or at the time of disposal of the unit.
- It may also be in violation of applicable laws.
- MITSUBISHI ELECTRIC CORPORATION cannot be held responsible for malfunctions or accidents resulting from the use of the wrong type of refrigerant.

■ Our air conditioning equipment and heat pumps contain a fluorinated greenhouse gas, R410A.

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