MITSUBISHI ELECTRIC

Changes for the Better

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AIR CONDITIONING SYSTEMS

CITY MULTI

DATA BOOK

MODEL

PEFY-P-VMHS-E

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PEFY-P-VMHS-E

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1. SPECIFICATIONS

Model				PEFY-P40VMHS-E	PEFY-P50VMHS-E	PEFY-P63VMHS-E	PEFY-P71VMHS-E
Power source				1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz
Cooling capacity		*1	kW	4.5	5.6	7.1	8.0
(Nominal)		*1	kcal/h	3,900	4,800	6,100	6,900
		*1	BTU/h	15,400	19,100	24,200	27,300
	*2 Power input		kW	0.055	0.055	0.090	0.075
	*2 Current input		A	0.41 - 0.39 - 0.38	0.41 - 0.39 - 0.38	0.64 - 0.62 - 0.59	0.54 - 0.52 - 0.50
Heating capacity		*3	kW	5.0	6.3	8.0	9.0
(Nominal)		*3	kcal/h	4,300	5,400	6,900	7,700
		*3	BTU/h	17,100	21,500	27,300	30,700
	*2 Power input		kW	0.055	0.055	0.090	0.075
	*2 Current input		A	0.41 - 0.39 - 0.38	0.41 - 0.39 - 0.38	0.64 - 0.62 - 0.59	0.54 - 0.52 - 0.50
External finish				Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate
External dimension H x W x D			mm	380 x 745 x 900	380 x 745 x 900	380 x 745 x 900	380 x 1,030 x 900
			in.	15 x 29-3/8 x 35-7/16	15 x 29-3/8 x 35-7/16	15 x 29-3/8 x 35-7/16	15 x 40-9/16 x 35-7/16
Net weight			kg (lbs)	35 (78)	35 (78)	35 (78)	45 (100)
Heat exchanger				Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)
FAN	Type x Quantity			Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 2
	*4 External static press.		Pa	50 - <100> - <150> - <200>	50 - <100> - <150> - <200>	50 - <100> - <150> - <200>	50 - <100> - <150> - <200>
			mmH_2O	5.1 - <10.2> - <15.3> - <20.4>	5.1 - <10.2> - <15.3> - <20.4>	5.1 - <10.2> - <15.3> - <20.4>	5.1 - <10.2> - <15.3> - <20.4>
	Motor Type			DC motor	DC motor	DC motor	DC motor
	Motor output		kW	0.121	0.121	0.121	0.244
	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)
			m^3/min	10.0 - 12.0 - 14.0	10.0 - 12.0 - 14.0	13.5 - 16.0 - 19.0	15.5 - 18.0 - 22.0
			L/s	167 - 200 - 233	167 - 200 - 233	225 - 267 - 317	258 - 300 - 367
			cfm	353 - 424 - 494	353 - 424 - 494	477 - 565 - 671	547 - 636 - 777
Sound pressure level (measured in anechoic room)				(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
		*2	dB <A>	20-23-27	20-23-27	24-27-32	24-26-30
Insulation material				Polystyrene foam, Polyethylene foam, Urethane foam	Polystyrene foam, Polyethylene foam, Urethane foam	Polystyrene foam, Polyethylene foam, Urethane foam	Polystyrene foam, Polyethylene foam, Urethane foam
Air filter				Option:Synthetic fiber unwoven cloth filter (long life filter) and filter box are recommended.	Option:Synthetic fiber unwoven cloth filter (long life filter) and filter box are recommended.	Option:Synthetic fiber unwoven cloth filter (long life filter) and filter box are recommended.	Option:Synthetic fiber unwoven cloth filter (long life filter) and filter box are recommended.
Protection device				Fuse	Fuse	Fuse	Fuse
Refrigerant control device				LEV	LEV	LEV	LEV
Connectable outdoor unit				R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI
Refrigerant piping	Liquid (R410A)		mm (in.)	6.35 (1/4)Brazed	6.35 (1/4)Brazed	9.52 (3/8)Brazed	9.52 (3/8)Brazed
diameter	Gas (R410A)		mm (in.)	12.7 (1/2)Brazed	12.7 (1/2)Brazed	15.88 (5/8)Brazed	15.88 (5/8)Brazed
Field drain pipe size			mm (in.)	O.D.32 (1-1/4)	O.D.32 (1-1/4)	O.D.32 (1-1/4)	O.D.32 (1-1/4)
Drawing	External			KL94C742	KL94C742	KL94C742	KL94C742
	Wiring			KL94C743	KL94C743	KL94C743	KL94C743
	Refrigerant cycle			-	-	-	-
Standard attachment	Document			Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book
	Accessory			Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band	Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band	Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band	Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band
Optional parts	Drain pump kit			PAC-DRP10DP-E2	PAC-DRP10DP-E2	PAC-DRP10DP-E2	PAC-DRP10DP-E2
	Long life filter			PAC-KE86LAF	PAC-KE86LAF	PAC-KE86LAF	PAC-KE88LAF
	Filter box			PAC-KE63TB-F	PAC-KE63TB-F	PAC-KE63TB-F	PAC-KE99TB-F
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: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Outdoor: 35°CD.B. (95°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
2.The values are measured at the factory setting of external static pressure.
3.Nominal heating conditions
Indoor: 20°CD.B. (68°FD.B.), Outdoor: 7°CD.B./6°CW.B. (45°FD.B./43°FW.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
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

kcal	=kW x 860
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-P80VMHS-E	PEFY-P100VMHS-E	PEFY-P125VMHS-E	PEFY-P140VMHS-E
Power source				1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz	1-phase 220-230-240 V 50/60 Hz
Cooling capacity		*1	kW	9.0	11.2	14.0	16.0
(Nominal)		*1	kcal/h	7,700	9,600	12,000	13,800
		*1	BTU/h	30,700	38,200	47,800	54,600
	*2 Power input		kW	0.090	0.160	0.160	0.190
	*2 Current input		A	0.63 - 0.61 - 0.58	1.05 - 1.01 - 0.96	1.05 - 1.01 - 0.96	1.24 - 1.19 - 1.14
Heating capacity		*3	kW	10.0	12.5	16.0	18.0
(Nominal)		*3	kcal/h	8,600	10,800	13,800	15,500
		*3	BTU/h	34,100	42,700	54,600	61,400
	*2 Power input		kW	0.090	0.160	0.160	0.190
	*2 Current input		A	0.63 - 0.61 - 0.58	1.05 - 1.01 - 0.96	1.05 - 1.01 - 0.96	1.24 - 1.19 - 1.14
External finish				Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate
External dimension H x W x D			mm	380 x 1,030 x 900	380 x 1,195 x 900	380 x 1,195 x 900	380 x 1,195 x 900
			in.	15 x 40-9/16 x 35-7/16	15 x 47-1/16 x 35-7/16	15 x 47-1/16 x 35-7/16	15 x 47-1/16 x 35-7/16
Net weight			kg (lbs)	45 (100)	51 (113)	51 (113)	53 (117)
Heat exchanger				Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)
FAN	Type x Quantity			Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2
*4	External static press.		Pa	50 - <100> - <150> - <200>	50 - <100> - <150> - <200>	50 - <100> - <150> - <200>	50 - <100> - <150> - <200>
			mmH_2O	5.1 - <10.2> - <15.3> - <20.4>	5.1 - <10.2> - <15.3> - <20.4>	5.1 - <10.2> - <15.3> - <20.4>	5.1 - <10.2> - <15.3> - <20.4>
	Motor Type			DC motor	DC motor	DC motor	DC motor
	Motor output		kW	0.244	0.375	0.375	0.375
	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)
			m^3/min	18.0 - 21.5 - 25.0	26.5 - 32.0 - 38.0	26.5 - 32.0 - 38.0	28.0 - 34.0 - 40.0
			L/s	300 - 358 - 417	442 - 533 - 633	442 - 533 - 633	467 - 567 - 667
			cfm	636 - 759 - 883	936 - 1,130 - 1,342	936 - 1,130 - 1,342	989 - 1,201 - 1,412
Sound pressure level (measured in anechoic room)				(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
		*2	dB <A>	25-27-30	27-31-34	27-31-34	27-32-36
Insulation material				Polystyrene foam, Polyethylene foam, Urethane foam	Polystyrene foam, Polyethylene foam, Urethane foam	Polystyrene foam, Polyethylene foam, Urethane foam	Polystyrene foam, Polyethylene foam, Urethane foam
Air filter				Option:Synthetic fiber unwoven cloth filter (long life filter) and filter box are recommended.	Option:Synthetic fiber unwoven cloth filter (long life filter) and filter box are recommended.	Option:Synthetic fiber unwoven cloth filter (long life filter) and filter box are recommended.	Option:Synthetic fiber unwoven cloth filter (long life filter) and filter box are recommended.
Protection device				Fuse	Fuse	Fuse	Fuse
Refrigerant control device				LEV	LEV	LEV	LEV
Connectable outdoor unit				R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI
Refrigerant piping	Liquid (R410A)		mm (in.)	9.52 (3/8)Brazed	9.52 (3/8)Brazed	9.52 (3/8)Brazed	9.52 (3/8)Brazed
diameter	Gas (R410A)		mm (in.)	15.88 (5/8)Brazed	15.88 (5/8)Brazed	15.88 (5/8)Brazed	15.88 (5/8)Brazed
Field drain pipe size			mm (in.)	O.D.32 (1-1/4)	O.D.32 (1-1/4)	O.D.32 (1-1/4)	O.D.32 (1-1/4)
Drawing	External			KL94C742	KL94C742	KL94C742	KL94C742
	Wiring			KL94C743	KL94C743	KL94C743	KL94C743
	Refrigerant cycle			-	-	-	-
Standard attachment	Document			Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book
	Accessory			Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band	Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band	Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band	Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band
Optional parts	Drain pump kit			PAC-DRP10DP-E2	PAC-DRP10DP-E2	PAC-DRP10DP-E2	PAC-DRP10DP-E2
	Long life filter			PAC-KE88LAF	PAC-KE89LAF	PAC-KE89LAF	PAC-KE89LAF
	Filter box			PAC-KE99TB-F	PAC-KE140TB-F	PAC-KE140TB-F	PAC-KE140TB-F
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: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Outdoor: 35°CD.B. (95°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
2.The values are measured at the factory setting of external static pressure.
3.Nominal heating conditions
Indoor: 20°CD.B. (68°FD.B.), Outdoor: 7°CD.B./6°CW.B. (45°FD.B./43°FW.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
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

kcal	=kW x 860
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-P200VMHS-E	PEFY-P250VMHS-E		
Power source				1-phase 220-230-240V 50/60Hz	1-phase 220-230-240V 50/60Hz		
Cooling capacity		*1	kW	22.4	28.0		
(Nominal)		*1	kcal / h	19,300	24,100		
		*1	BTU / h	76,400	95,500		
	*2	Power input	kW	0.63	0.82		
	*2	Current input	A	3.47 - 3.32 - 3.18 (220-230-240V)	4.72 - 4.43 - 4.14 (220-230-240V)		
Heating capacity		*3	kW	25.0	31.5		
(Nominal)		*3	kcal / h	21,500	27,100		
		*3	BTU / h	85,300	107,500		
	*2	Power input	kW	0.63	0.82		
	*2	Current input	A	3.47 - 3.32 - 3.18 (220-230-240V)	4.72 - 4.43 - 4.14 (220-230-240V)		
External finish				Galvanized steel plate	Galvanized steel plate		
External dimension HxWxD			mm	470 x 1,250 x 1,120	470 x 1,250 x 1,120		
			inch	18-1/2 x 49-1/4 x 44-1/8	18-1/2 x 49-1/4 x 44-1/8		
Net weight			kg(lbs)	97(214)	100(221)		
Heat exchanger				Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)		
FAN	Type x Quantity			Sirocco fan x 2	Sirocco fan x 2		
	*4 External static press.		Pa	<50> - <100> - 150 - <200> - <250>	<50> - <100> - 150 - <200> - <250>		
			mmH_2O	<5.1> - <10.2> - 15.3 - <20.4> - <25.5>	<5.1> - <10.2> - 15.3 - <20.4> - <25.5>		
	Motor Type			DC motor	DC motor		
	Motor output		kW	0.870	0.870		
	Driving mechanism			Inverter-control	Inverter-control		
	Air flow rate			(Low-Mid-High)	(Low-Mid-High)		
			m^3 / min	50.0 - 61.0 - 72.0	58.0 - 71.0 - 84.0		
			L/s	833 - 1,017 - 1,200	967 - 1,183 - 1,400		
			cfm	1,766 - 2,154 - 2,542	2,048 - 2,507 - 2,966		
Sound pressure level (measured in anechoic room)				(Low-Mid-High)	(Low-Mid-High)		
		*2	dB <A>	36-39-43	39-42-46		
Insulation material				EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam		
Air filter				Option: Synthetic fiber unwoven cloth filter (long life filter) and filter box are recommended.	Option: Synthetic fiber unwoven cloth filter (long life filter) and filter box are recommended.		
Protection device				Fuse	Fuse		
Refrigerant control device				LEV	LEV		
Connectable outdoor unit				R410A CITY MULTI	R410A CITY MULTI		
Diameter of refrigerant	Liquid (R410A)		mm(inch)	9.52(3/8")Brazed	9.52(3/8")Brazed		
pipe	Gas (R410A)		mm(inch)	19.05(3/4")Brazed	22.22(7/8")Brazed		
Field drain pipe size			mm(inch)	O.D.32(1-1/4")	O.D.32(1-1/4")		
Drawing	External			KD94G757	KD94G757		
	Wiring			KD94G911	KD94G911		
	Refrigerant cycle			-	-		
Standard attachment	Document			Installation Manual, Instruction Book	Installation Manual, Instruction Book		
	Accessory			Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band	Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band		
Optional parts	Drain pump kit			PAC-KE05DM-F	PAC-KE05DM-F		
	Long life filter			PAC-KE85LAF	PAC-KE85LAF		
	Filter box			PAC-KE250TB-F	PAC-KE250TB-F		
Remark				* 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 (subject to JIS B8615-2)
   Indoor: 27°CDB/19°CWB (81°FDB/66°FWB), Outdoor: 35°CDB (95°FDB)
   Pipe length: 7.5m (24-9/16"ft.), Level difference: 0m (0ft.)
2. The values are measured at the factory setting of external static pressure.
3. Nominal heating conditions (subject to JIS B8615-2)
   Indoor: 20°CDB (68°FDB), Outdoor: 7°CDB/6°CWB (45°FDB/43°FWB)
   Pipe length: 7.5m (24-9/16"ft.) Level, difference: 0m(0ft.)
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.

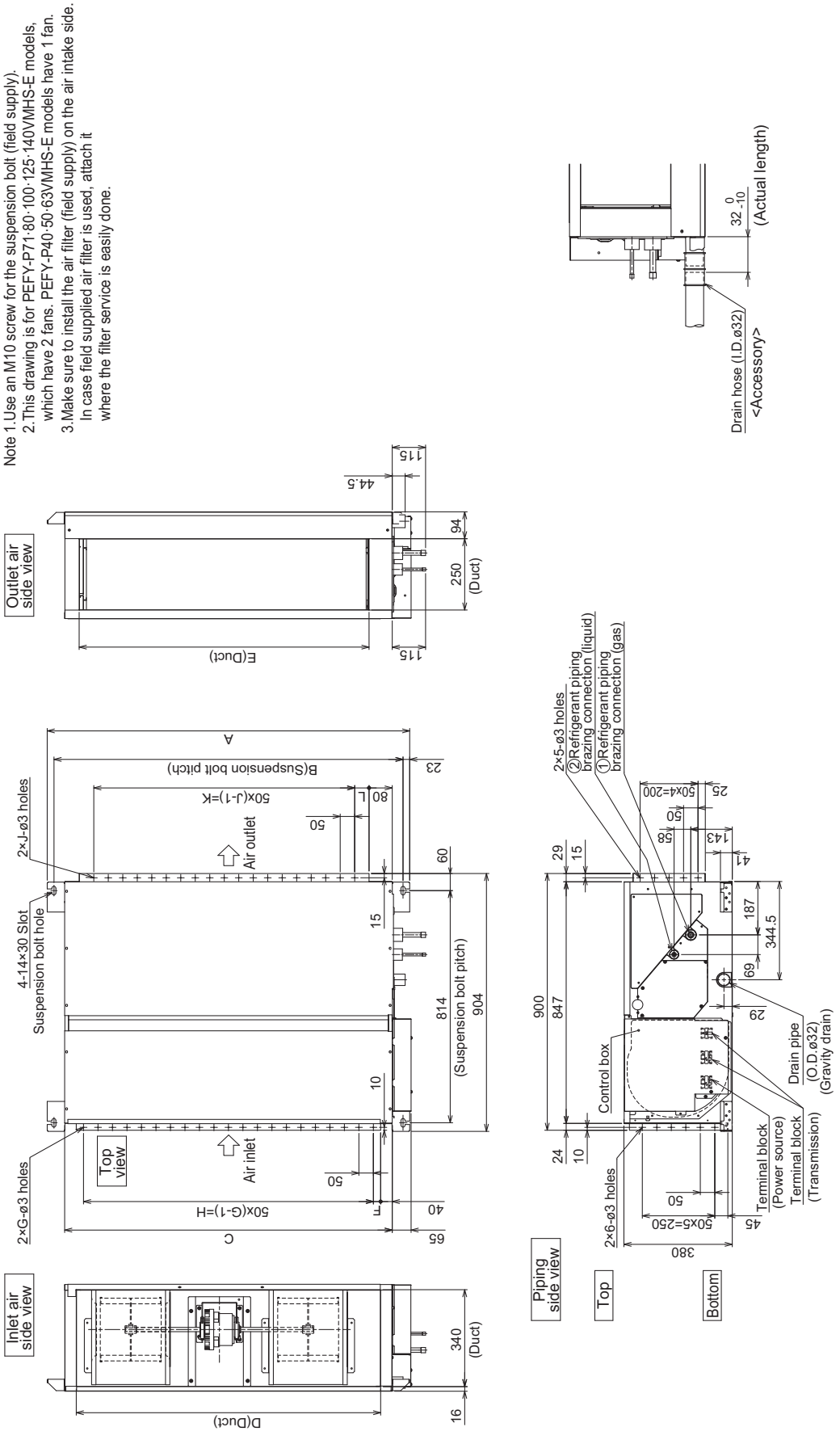
Unit converter

kcal/h	=kW x 860
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-P40, 50, 63, 71, 80, 100, 125, 140VMHS-E

Unit: mm



Model	A	B	C	D	E	F	G	H	J	K	L	① Gas pipe	② Liquid pipe
PEFY-P40·50VMHS-E	800	754	680	600	550	50	11	500	10	450	50	ø12.7	ø6.35
PEFY-P63VMHS-E													
PEFY-P71·80VMHS-E	1085	1039	965	885	835	42.5	17	800	15	700	67	ø15.88	ø9.52
PEFY-P100·125·140VMHS-E	1250	1204	1130	1050	1000	25	21	1000	19	900	50		

PEFY-P40, 50, 63, 71, 80, 100, 125, 140VMHS-E

Unit: mm

[Maintenance access space]

Secure enough access space to allow for the maintenance,inspection,and replacement of the motor,fan,heat exchanger, drain pan 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 beam or other objects.

Create access door 1(450x450mm) for the maintenance from the unit side when the thermistor,LEV and control box is exchanged.(Fig.2,4)

(1) When a space of 300mm or more is available below the unit between the unit and the ceiling.
Create access door 2(600x600mm) for the maintenance from the bottom when the motor,fan,heat exchanger and drain pan is cleaned(exchanged).(Fig.2)

(2) When a space of less than 300mm is available below the unit between the unit and the ceiling.
(At least 20mm of space should be left below the unit as shown in Fig.3.)
Create access door 3 for the maintenance from the bottom when the motor,fan,heat exchanger and drain pan is cleaned(exchanged).(Fig.4)

Fig.1

Model	C	M	N
PEFY-P40·50VMHS-E	680	780	0~50
PEFY-P63VMSH-E			
PEFY-P71·80VMHS-E	965	1065	100~150
PEFY-P100·125·140VMHS-E	1130	1230	200~250

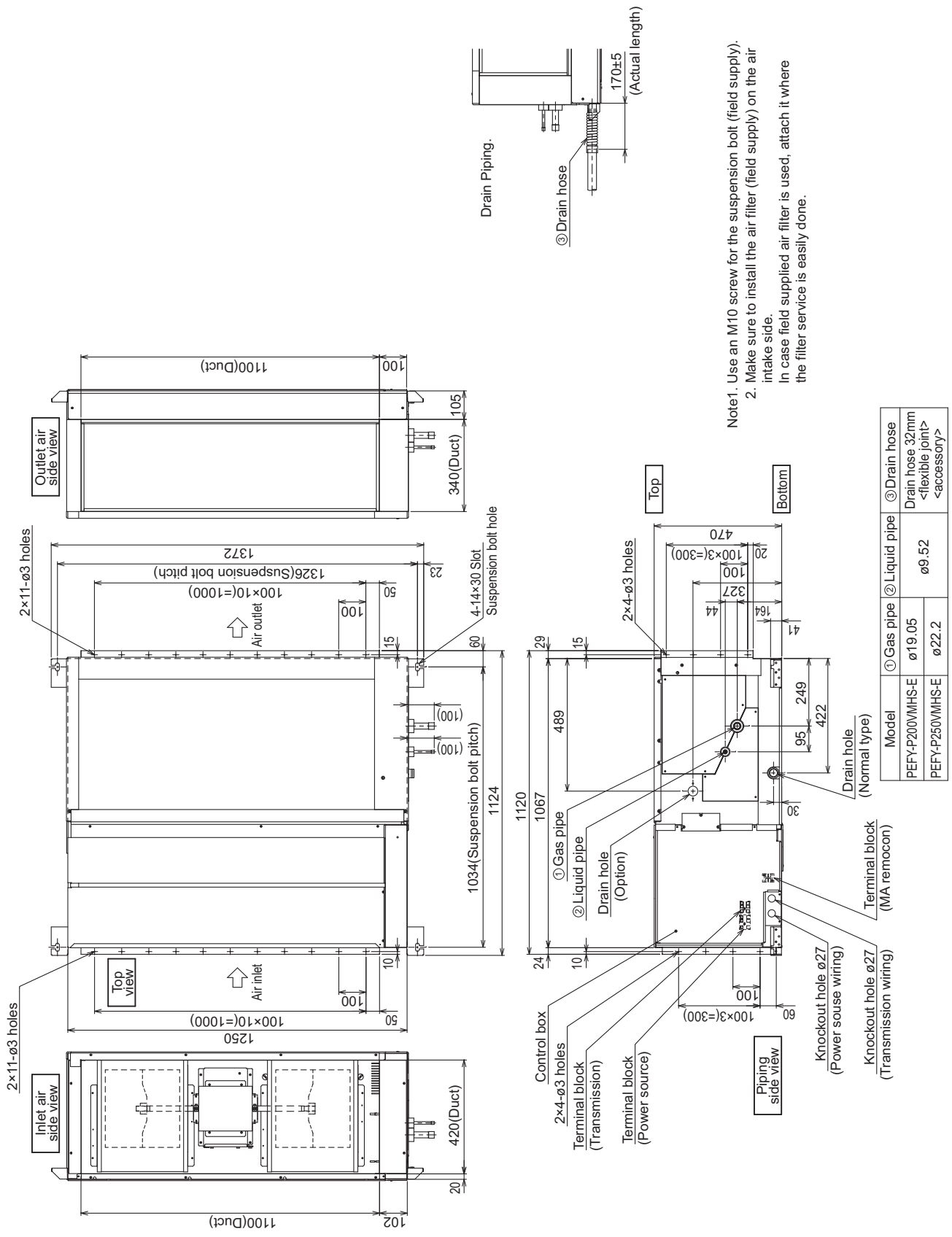
Fig.2 (Viewed from the direction of the arrow Z)

Fig.3

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

PEFY-P200, 250VMHS-E

Unit: mm



[Maintenance access space]

Secure enough access space to allow for the maintenance,inspection,and replacement of the motor,fan,heat exchanger, drain pan 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 beam or other objects.

Create access door 1(450×450mm) for the maintenance from the unit side when the thermistor,LEV and control box is exchanged.(Fig.2,4)

(1) When a space of 500mm or more is available below the unit between the unit and the ceiling.
Create access door 2(600×600mm) for the maintenance from the bottom when the motor,fan,heat exchanger and drain pan is cleaned(exchanged).(Fig.2)

(2) When a space of less than 500mm 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 3 for the maintenance from the bottom when the motor,fan,heat exchanger and drain pan is cleaned(exchanged).(Fig.4)

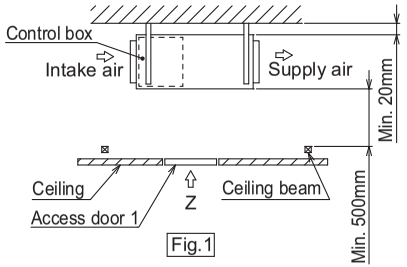


Fig.1

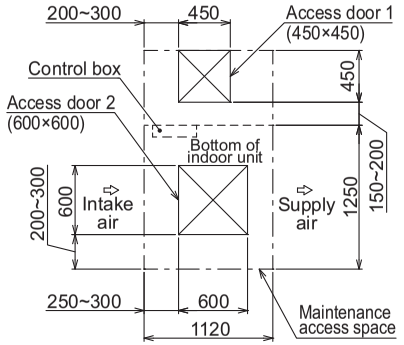


Fig.2 (Viewed from the direction of the arrow Z)

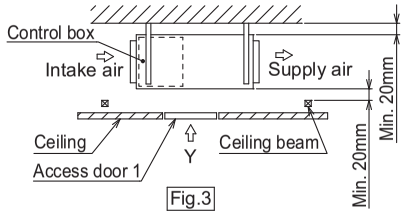


Fig.3

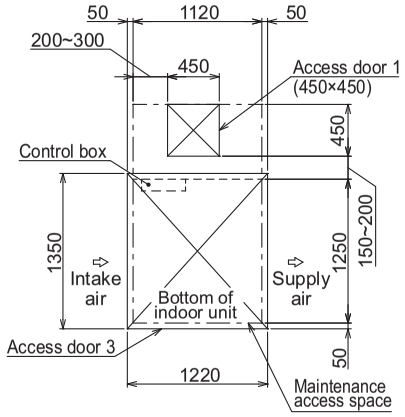
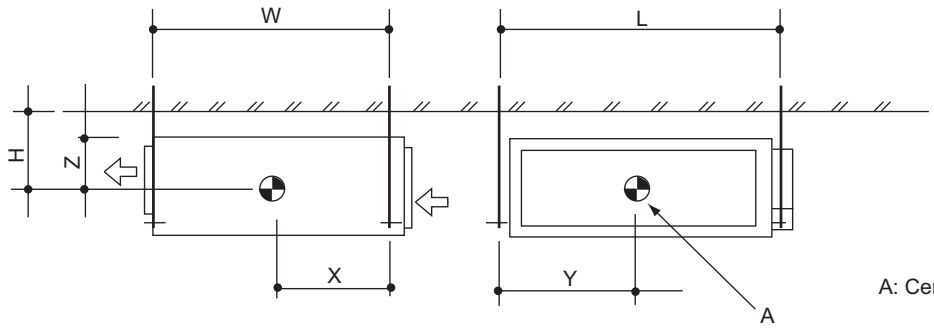


Fig.4 (Viewed from the direction of the arrow Y)

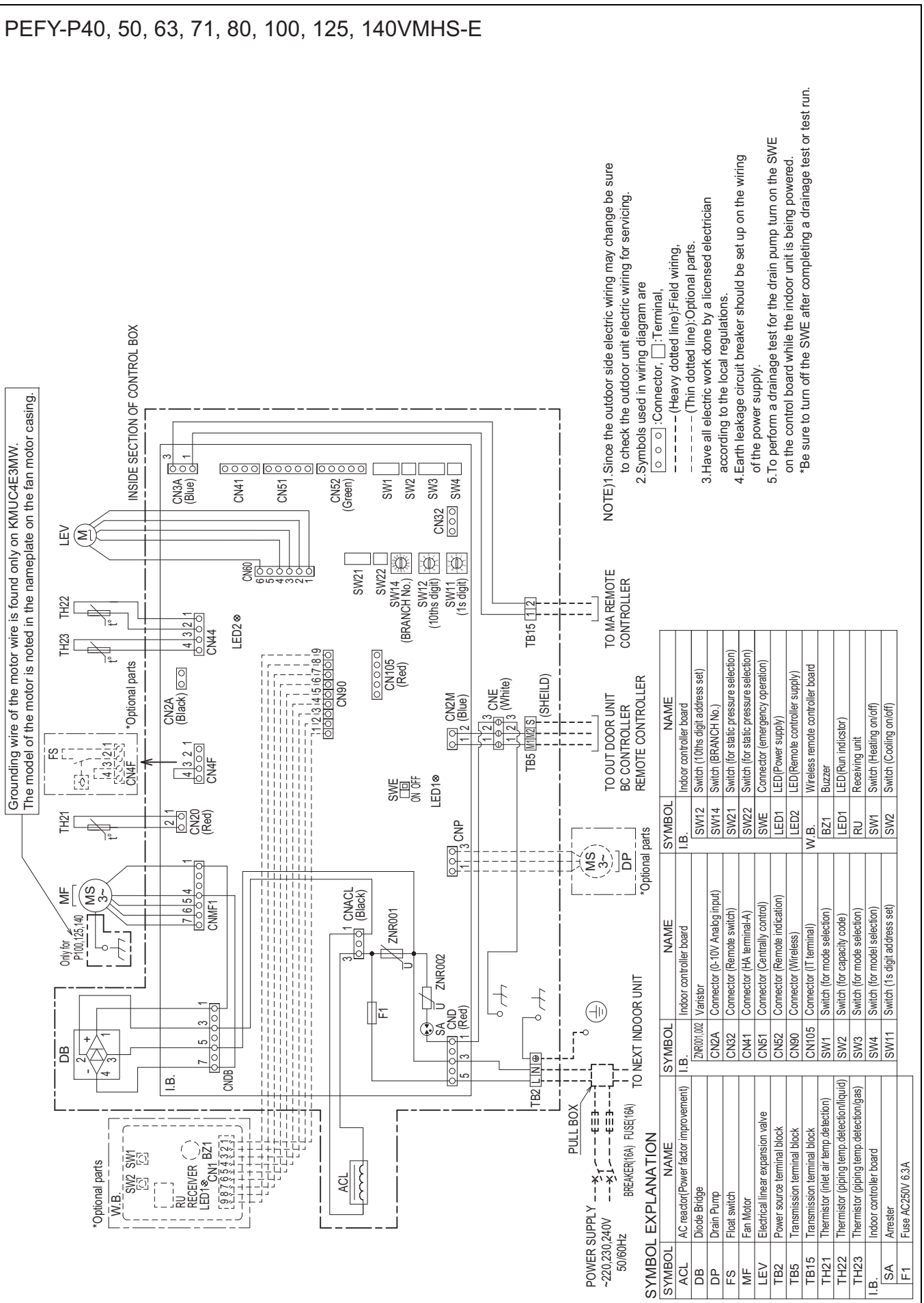
PEFY-P40, 50, 63, 71, 80, 100, 125, 140, 200, 250VMHS-E



(mm)[in]

Model name	W	L	H	X	Y	Z
PEFY-P40VMHS-E	814 [32-1/16]	754 [29-11/16]	210 [8-9/32]	374 [14-3/4]	440 [17-11/32]	190 [7-1/2]
PEFY-P50VMHS-E	814 [32-1/16]	754 [29-11/16]	210 [8-9/32]	374 [14-3/4]	440 [17-11/32]	190 [7-1/2]
PEFY-P63VMHS-E	814 [32-1/16]	754 [29-11/16]	210 [8-9/32]	374 [14-3/4]	440 [17-11/32]	190 [7-1/2]
PEFY-P71VMHS-E	814 [32-1/16]	1039 [40-15/16]	210 [8-9/32]	364 [14-11/32]	548 [21-5/8]	190 [7-1/2]
PEFY-P80VMHS-E	814 [32-1/16]	1039 [40-15/16]	210 [8-9/32]	364 [14-11/32]	548 [21-5/8]	190 [7-1/2]
PEFY-P100VMHS-E	814 [32-1/16]	1204 [47-13/32]	210 [8-9/32]	364 [14-11/32]	649 [25-9/16]	190 [7-1/2]
PEFY-P125VMHS-E	814 [32-1/16]	1204 [47-13/32]	210 [8-9/32]	364 [14-11/32]	649 [25-9/16]	190 [7-1/2]
PEFY-P140VMHS-E	814 [32-1/16]	1204 [47-13/32]	210 [8-9/32]	364 [14-11/32]	649 [25-9/16]	190 [7-1/2]
PEFY-P200VMHS-E	1034 [40-23/32]	1326 [52-7/32]	255 [10-1/16]	462 [18-7/32]	660 [25-32/32]	235 [9-9/32]
PEFY-P250VMHS-E	1034 [40-23/32]	1326 [52-7/32]	255 [10-1/16]	462 [18-7/32]	660 [25-32/32]	235 [9-9/32]

PEFY-P40, 50, 63, 71, 80, 100, 125, 140VMHS-E



SYMBOL EXPLANATION

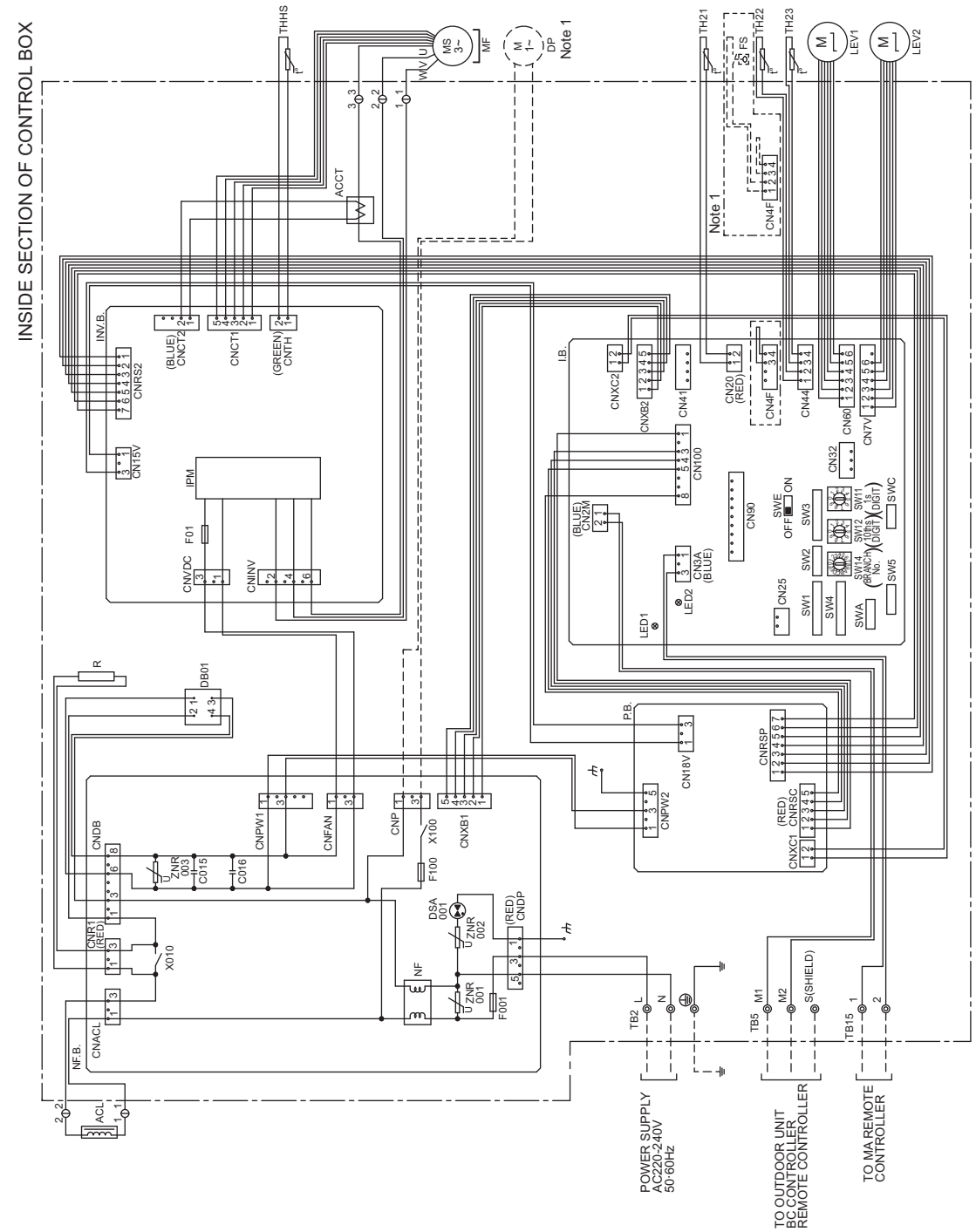
SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
ACL	AC reactor(Power factor improvement)	I.B.	Indoor controller board	I.B.	Indoor controller board
DB	Diode Bridge	ZNR001,002	Varistor	SW12	Switch (10ths digit address set)
DP	Drain Pump	CN2A	Connector (0-10V Analog input)	SW14	Switch (BRANCH No.)
FS	Float switch	CN32	Connector (Remote switch)	SW21	Switch (for static pressure selection)
MF	Fan Motor	CN41	Connector (HA terminal-A)	SW22	Switch (for static pressure selection)
LEV	Electrical linear expansion valve	CN51	Connector (Centrally control)	SWE	Connector (emergency operation)
TB2	Power source terminal block	CN52	Connector (Remote indication)	LED1	LED(Power supply)
TB5	Transmission terminal block	CN90	Connector (Wireless)	LED2	LED(Remote controller supply)
TB15	Transmission terminal block	CN105	Connector (IT terminal)	W.B.	Wireless remote controller board
TH21	Thermistor (inlet air temp.detection)	SW1	Switch (for mode selection)	BZ1	Buzzer
TH22	Thermistor (piping temp.detection/liquid)	SW2	Switch (for capacity code)	LED1	LED(Run indicstor)
TH23	Thermistor (piping temp.detection/gas)	SW3	Switch (for mode selection)	RU	Receiving unit
I.B.	Indoor controller board	SW4	Switch (for model selection)	SW1	Switch (Heating on/off)
SA	Arrester	SW11	Switch (1s digit address set)	SW2	Switch (Cooling on/off)
F1	Fuse AC250V 6.3A				

PEFY-P200,P250VMHS-E

SYMBOL EXPLANATION

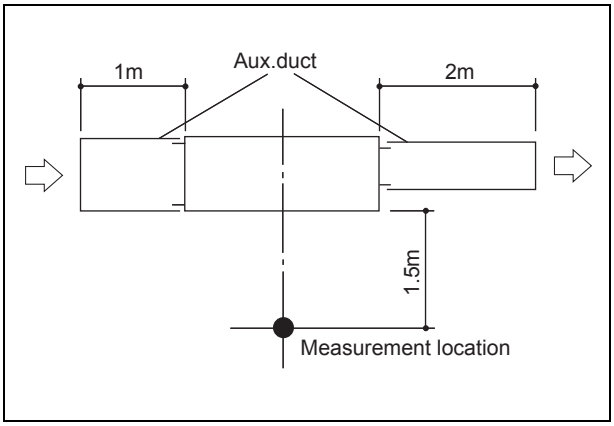
SYMBOL		NAME
I.B.		Indoor controller board
	CN25	Connector
	CN32	Connector (Remote switch)
	CN41	Connector (HA terminal-A)
	CN90	Connector (Wireless)
	SW1	Switch (for mode selection)
	SW2	Switch (for capacity code)
	SW3	Switch (for mode selection)
	SW4	Switch (for model selection)
	SW5	Switch (for mode selection)
	SW11	Switch (1s digit address set)
	SW12	Switch (10ths digit address set)
	SW14	Switch (BRANCH No.)
	SWA	Switch (for static pressure selection)
	SWC	Switch (for static pressure selection)
	SWE	Connector (emergency operation)
NF.B.		Noise filter board
	DSA001	Arrester
	ZNR01~ ZNR03	Varistor
	X010,X100	Aux. relay
	F001	Fuse(AC250V 10A)
	F100	Fuse(3.15A)
	NF	Noise filter
P.B.		Power supply board
INV.B.		Inverter board
	IPM	Intelligent power module
	F01	Fuse(AC250V 15A)
	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)
	THHS	Thermistor(heatsink)
	MF	Fan motor
LEV1,LEV2		Electronic linear expan.valve
	ACL	AC reactor (Power factor improvement)
	R	Resistor
	DB01	Diode bridge
	ACCT	Current Sensor (AC)
	LED1	LED (Power supply)
	LED2	LED (Remote controller supply)
	<DP>	Drain pump
	<FS>	Float switch

Inside < >is the optional parts.



5-1. Sound levels

PEFY-P-VMHS-E



* Measured in anechoic room.

Sound level at anechoic room: Low-Mid-High

		Sound level dB (A)			
		50Pa	100Pa	150Pa	200Pa
PEFY-P40VMHS-E	220-240V	20 - 23 - 27	24 - 28 - 33	29 - 33 - 37	31 - 36 - 39
PEFY-P50VMHS-E	220-240V	20 - 23 - 27	24 - 28 - 33	29 - 33 - 37	31 - 36 - 39
PEFY-P63VMHS-E	220-240V	24 - 27 - 32	27 - 30 - 35	30 - 34 - 38	33 - 37 - 41
PEFY-P71VMHS-E	220-240V	24 - 26 - 30	27 - 29 - 34	29 - 33 - 38	32 - 36 - 41
PEFY-P80VMHS-E	220-240V	25 - 27 - 30	28 - 31 - 35	31 - 35 - 38	34 - 38 - 42
PEFY-P100VMHS-E	220-240V	27 - 31 - 34	31 - 34 - 39	33 - 37 - 42	35 - 40 - 45
PEFY-P125VMHS-E	220-240V	27 - 31 - 34	31 - 34 - 39	33 - 37 - 42	35 - 40 - 45
PEFY-P140VMHS-E	220-240V	27 - 32 - 36	31 - 35 - 39	33 - 38 - 42	36 - 40 - 45

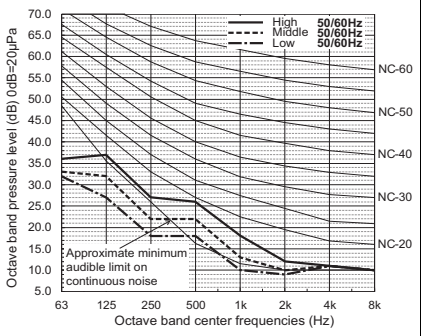
Sound level at anechoic room: Low-Mid-High

		Sound level dB (A)				
		50Pa	100Pa	150Pa	200Pa	250Pa
PEFY-P200VMHS-E	220-240V	32 - 35 - 39	34 - 37 - 41	36 - 39 - 43	38 - 41 - 45	40 - 43 - 47
PEFY-P250VMHS-E	220-240V	35 - 38 - 42	37 - 40 - 44	39 - 42 - 46	41 - 44 - 48	43 - 46 - 50

5-2. NC curves

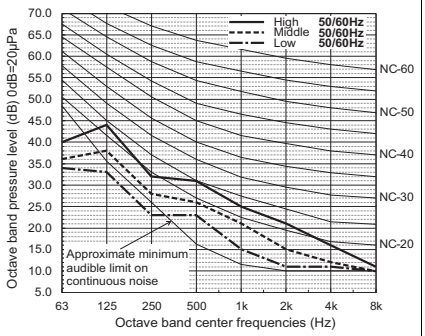
PEFY-P40,50VMHS-E

External Static Pressure: 50Pa [0.20in.WG]
Power Source: 220-240V, 50/60Hz



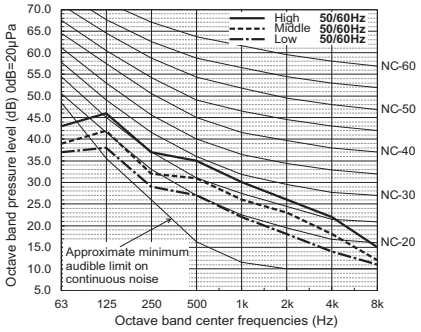
PEFY-P40,50VMHS-E

External Static Pressure: 100Pa [0.40in.WG]
Power Source: 220-240V, 50/60Hz



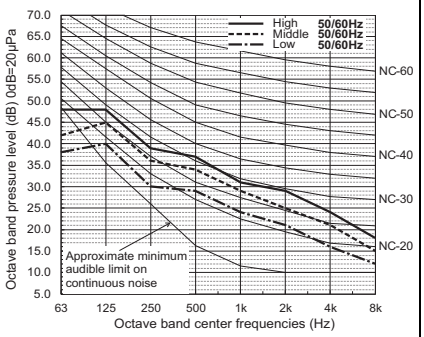
PEFY-P40,50VMHS-E

External Static Pressure: 150Pa [0.60in.WG]
Power Source: 220-240V, 50/60Hz



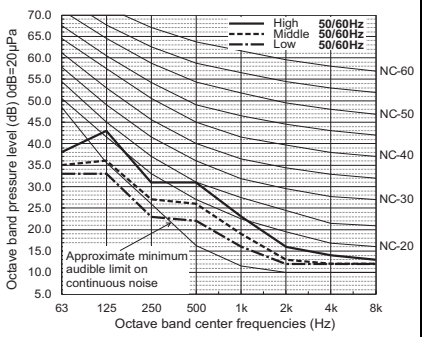
PEFY-P40,50VMHS-E

External Static Pressure: 200Pa [0.80in.WG]
Power Source: 220-240V, 50/60Hz



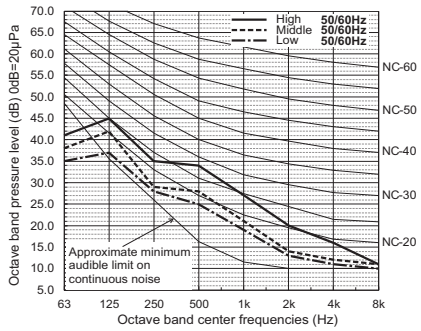
PEFY-P63VMHS-E

External Static Pressure: 50Pa [0.20in.WG]
Power Source: 220-240V, 50/60Hz



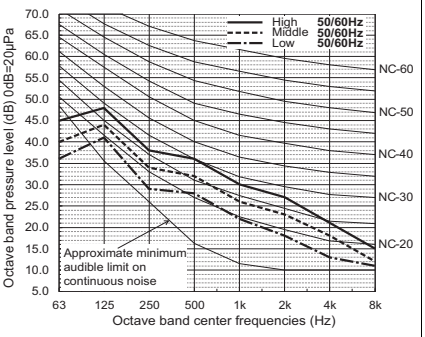
PEFY-P63VMHS-E

External Static Pressure: 100Pa [0.40in.WG]
Power Source: 220-240V, 50/60Hz



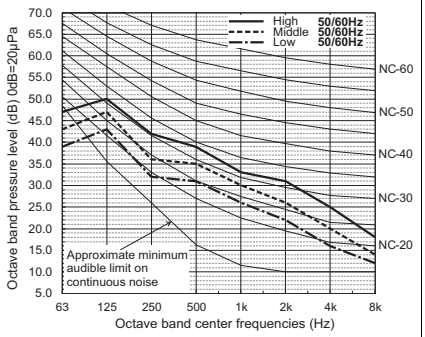
PEFY-P63VMHS-E

External Static Pressure: 150Pa [0.60in.WG]
Power Source: 220-240V, 50/60Hz



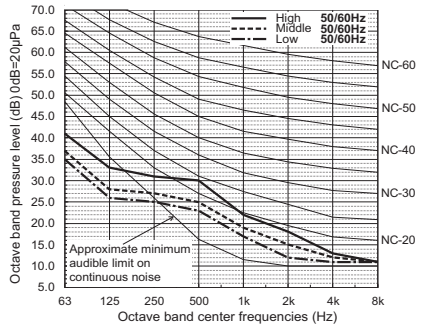
PEFY-P63VMHS-E

External Static Pressure: 200Pa [0.80in.WG]
Power Source: 220-240V, 50/60Hz



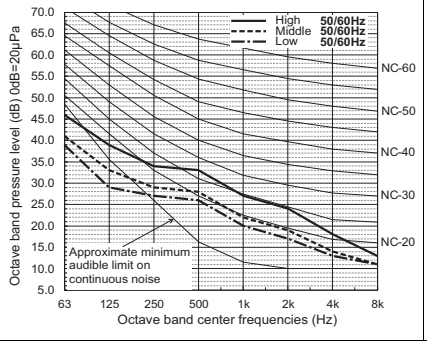
PEFY-P71VMHS-E

External Static Pressure: 50Pa [0.20in.WG]
Power Source: 220-240V, 50/60Hz



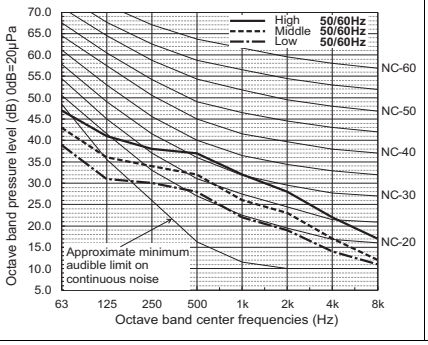
PEFY-P71VMHS-E

External Static Pressure: 100Pa [0.40in.WG]
Power Source: 220-240V, 50/60Hz



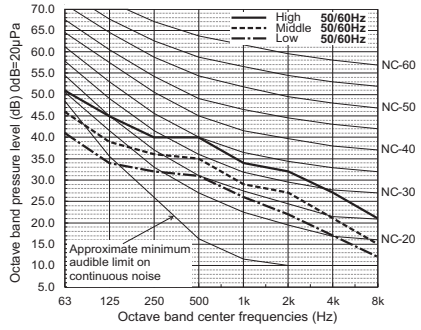
PEFY-P71VMHS-E

External Static Pressure: 150Pa [0.60in.WG]
Power Source: 220-240V, 50/60Hz



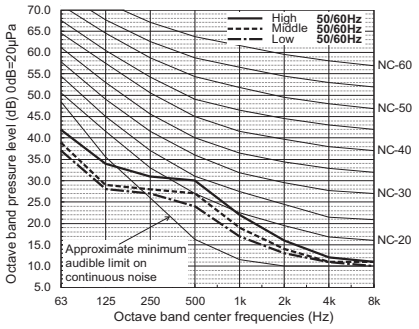
PEFY-P71VMHS-E

External Static Pressure: 200Pa [0.80in.WG]
Power Source: 220-240V, 50/60Hz



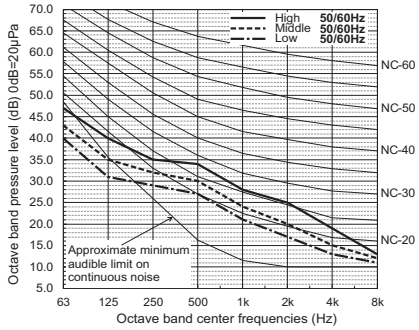
PEFY-P80VMHS-E

External Static Pressure: 50Pa [0.20in.WG]
Power Source: 220-240V, 50/60Hz



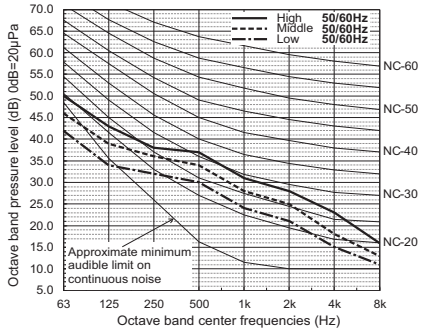
PEFY-P80VMHS-E

External Static Pressure: 100Pa [0.40in.WG]
Power Source: 220-240V, 50/60Hz



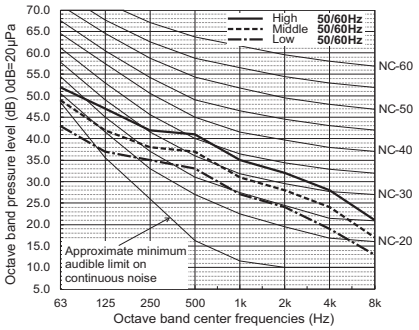
PEFY-P80VMHS-E

External Static Pressure: 150Pa [0.60in.WG]
Power Source: 220-240V, 50/60Hz



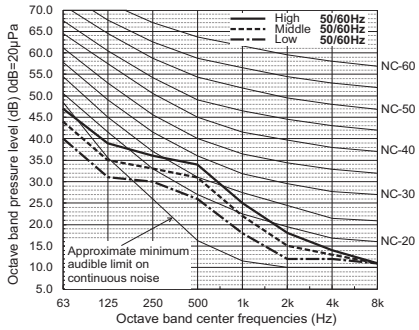
PEFY-P80VMHS-E

External Static Pressure: 200Pa [0.80in.WG]
Power Source: 220-240V, 50/60Hz



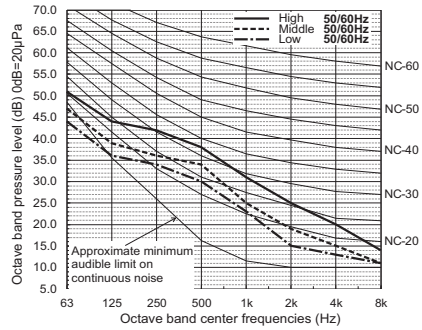
PEFY-P100,125VMHS-E

External Static Pressure: 50Pa [0.20in.WG]
Power Source: 220-240V, 50/60Hz



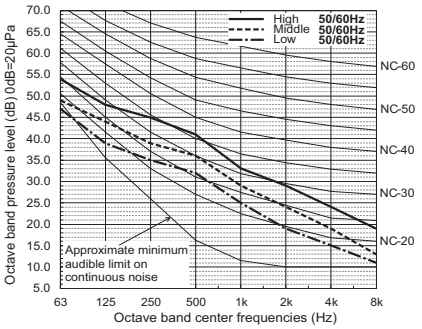
PEFY-P100,125VMHS-E

External Static Pressure: 100Pa [0.40in.WG]
Power Source: 220-240V, 50/60Hz



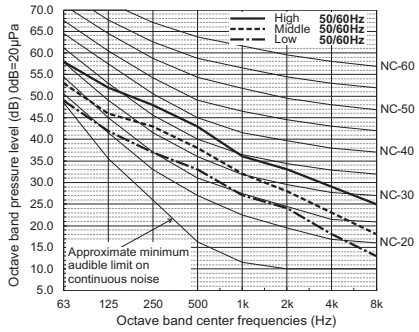
PEFY-P100,125VMHS-E

External Static Pressure: 150Pa [0.60in.WG]
Power Source: 220-240V, 50/60Hz



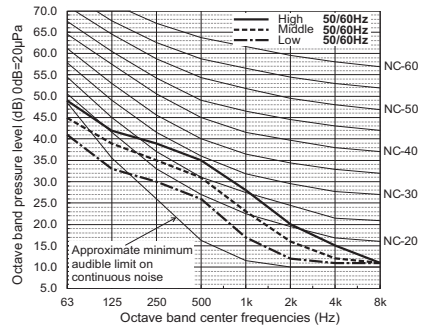
PEFY-P100,125VMHS-E

External Static Pressure: 200Pa [0.80in.WG]
Power Source: 220-240V, 50/60Hz



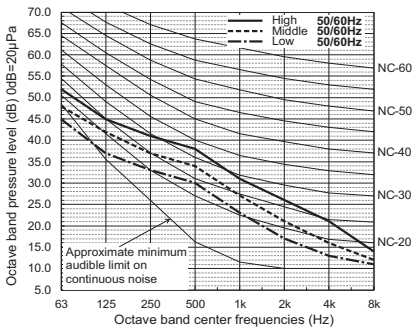
PEFY-P140VMHS-E

External Static Pressure: 50Pa [0.20in.WG]
Power Source: 220-240V, 50/60Hz



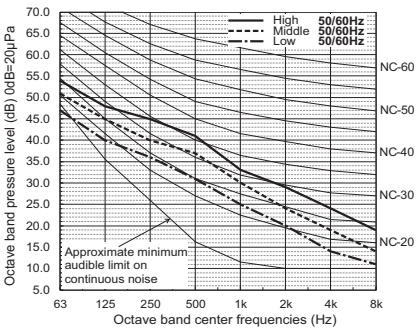
PEFY-P140VMHS-E

External Static Pressure: 100Pa [0.40in.WG]
Power Source: 220-240V, 50/60Hz



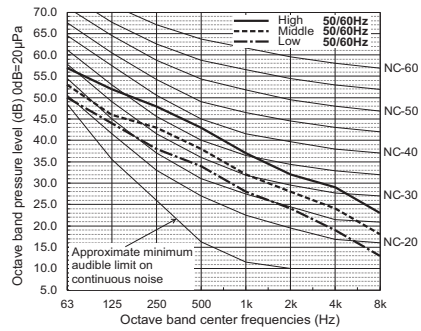
PEFY-P140VMHS-E

External Static Pressure: 150Pa [0.60in.WG]
Power Source: 220-240V, 50/60Hz



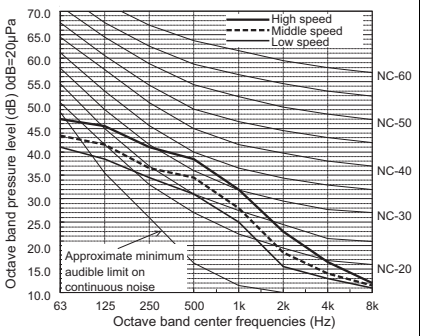
PEFY-P140VMHS-E

External Static Pressure: 200Pa [0.80in.WG]
Power Source: 220-240V, 50/60Hz



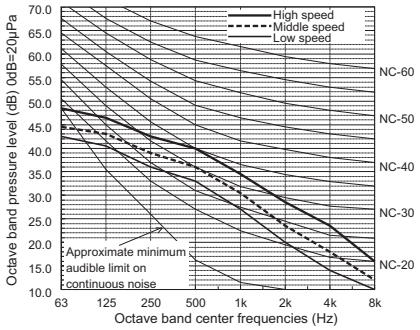
PEFY-P200VMHS-E

External Static Pressure: 50Pa
Power Source: 220,230,240V, 50/60Hz



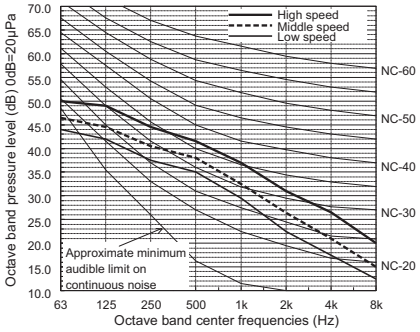
PEFY-P200VMHS-E

External Static Pressure: 100Pa
Power Source: 220,230,240V, 50/60Hz



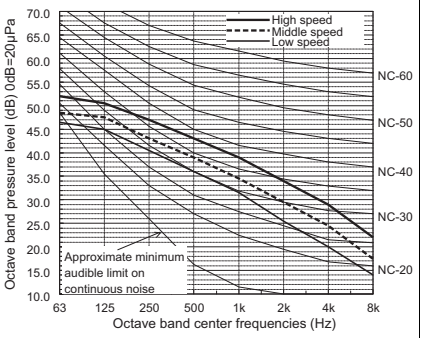
PEFY-P200VMHS-E

External Static Pressure: 150Pa
Power Source: 220,230,240V, 50/60Hz



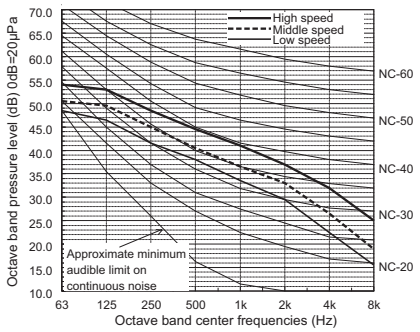
PEFY-P200VMHS-E

External Static Pressure: 200Pa
Power Source: 220,230,240V, 50/60Hz



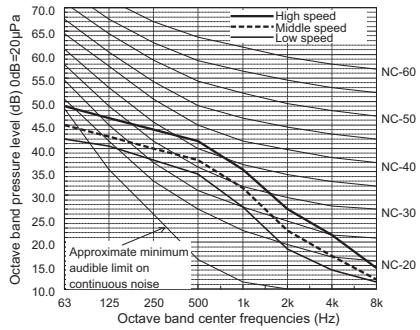
PEFY-P200VMHS-E

External Static Pressure: 250Pa
Power Source: 220,230,240V, 50/60Hz



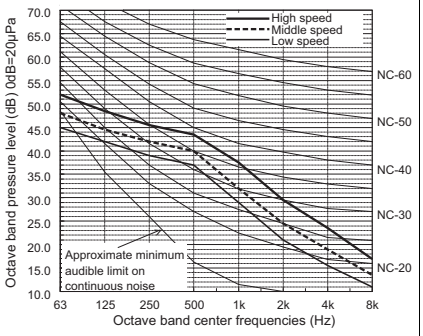
PEFY-P250VMHS-E

External Static Pressure: 50Pa
Power Source: 220,230,240V, 50/60Hz



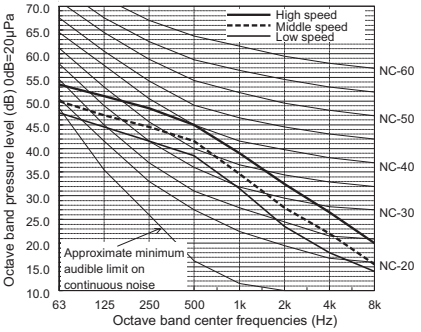
PEFY-P250VMHS-E

External Static Pressure: 100Pa
Power Source: 220,230,240V, 50/60Hz



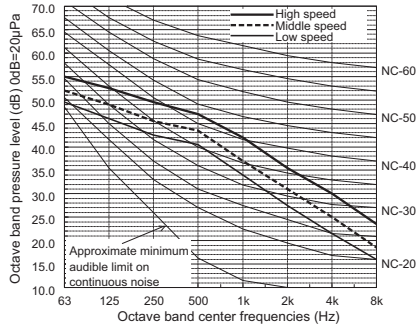
PEFY-P250VMHS-E

External Static Pressure: 150Pa
Power Source: 220,230,240V, 50/60Hz



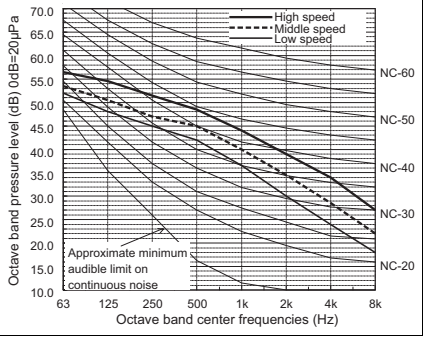
PEFY-P250VMHS-E

External Static Pressure: 200Pa
Power Source: 220,230,240V, 50/60Hz

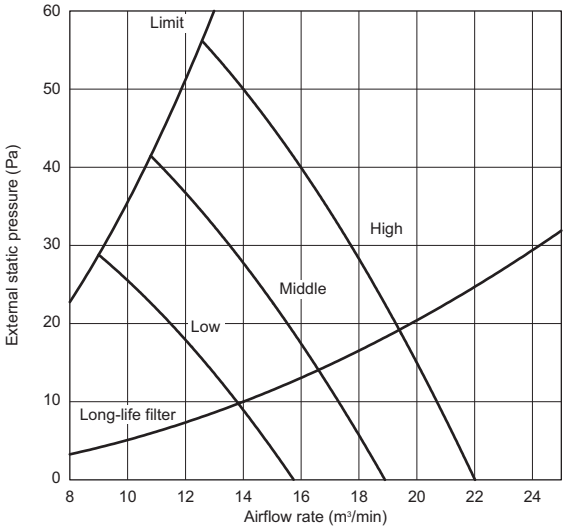


PEFY-P250VMHS-E

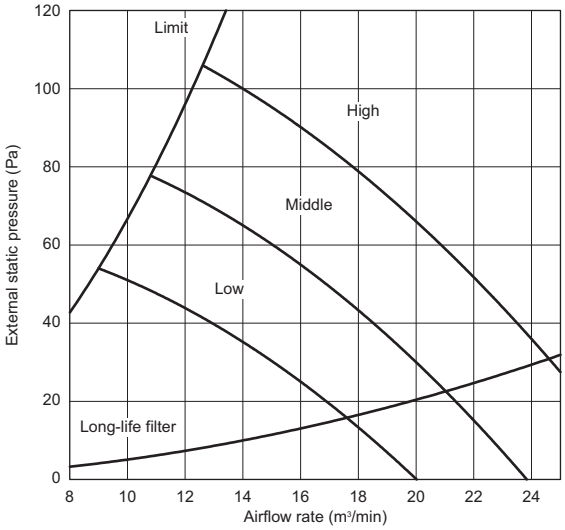
External Static Pressure: 250Pa
Power Source: 220,230,240V, 50/60Hz



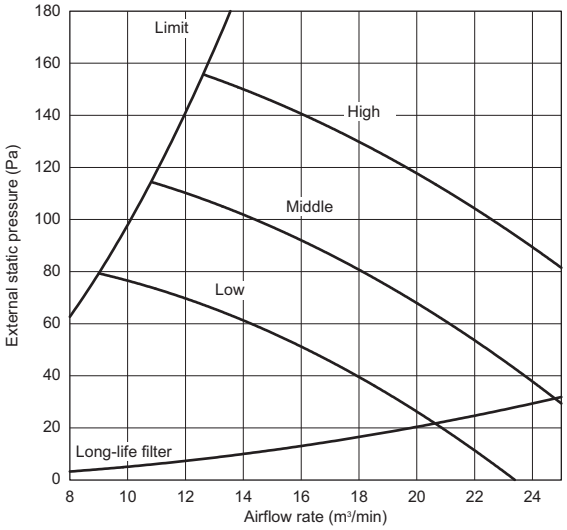
PEFY-P40, 50VMHS-E
External static pressure : 50Pa
Power source : 220-240V, 50/60Hz



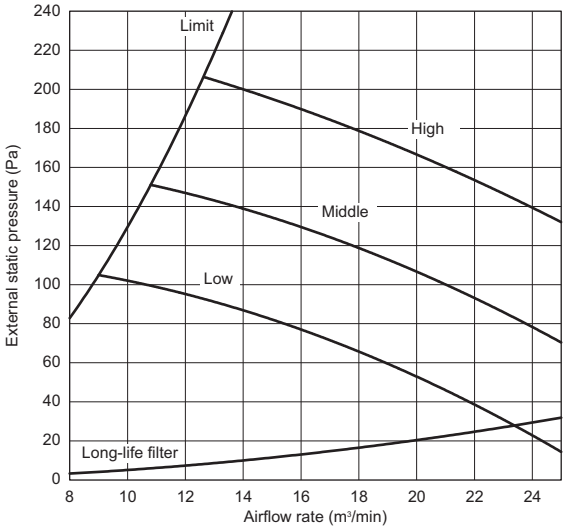
PEFY-P40, 50VMHS-E
External static pressure : 100Pa
Power source : 220-240V, 50/60Hz



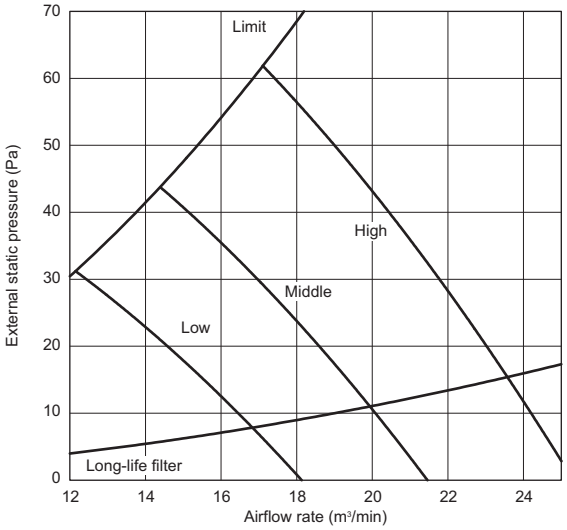
PEFY-P40, 50VMHS-E
External static pressure : 150Pa
Power source : 220-240V, 50/60Hz



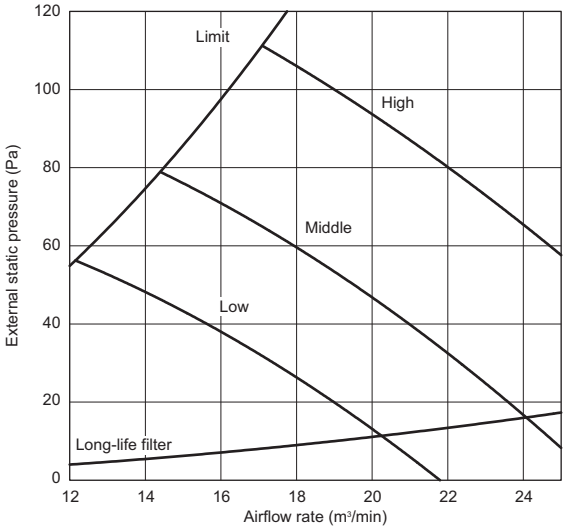
PEFY-P40, 50VMHS-E
External static pressure : 200Pa
Power source : 220-240V, 50/60Hz



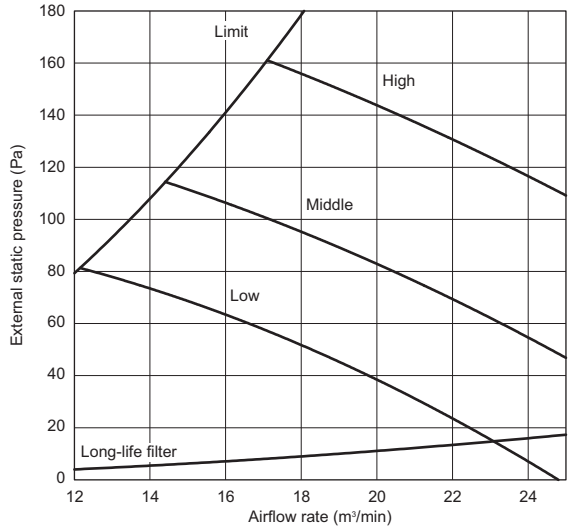
PEFY-P63VMHS-E
External static pressure : 50Pa
Power source : 220-240V, 50/60Hz



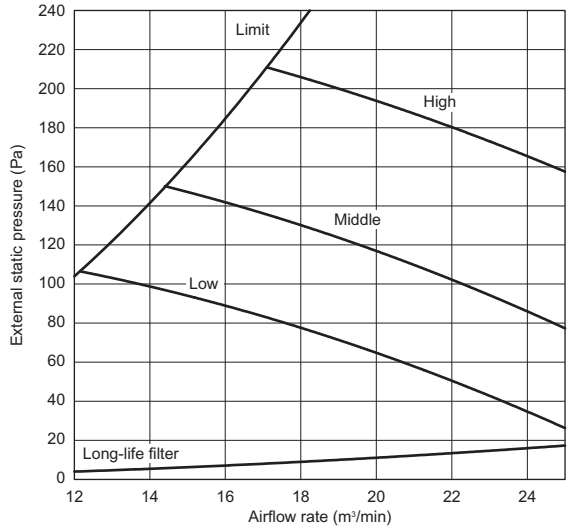
PEFY-P63VMHS-E
External static pressure : 100Pa
Power source : 220-240V, 50/60Hz



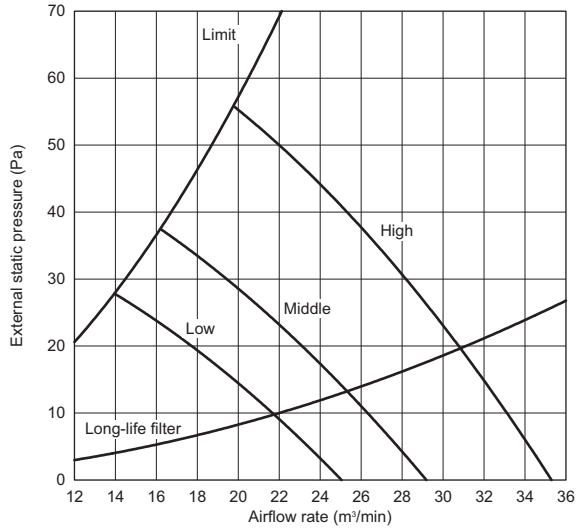
PEFY-P63VMHS-E
External static pressure : 150Pa
Power source : 220-240V, 50/60Hz



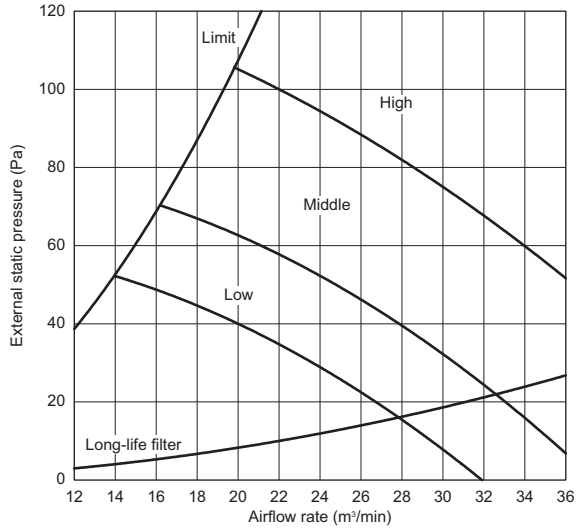
PEFY-P63VMHS-E
External static pressure : 200Pa
Power source : 220-240V, 50/60Hz



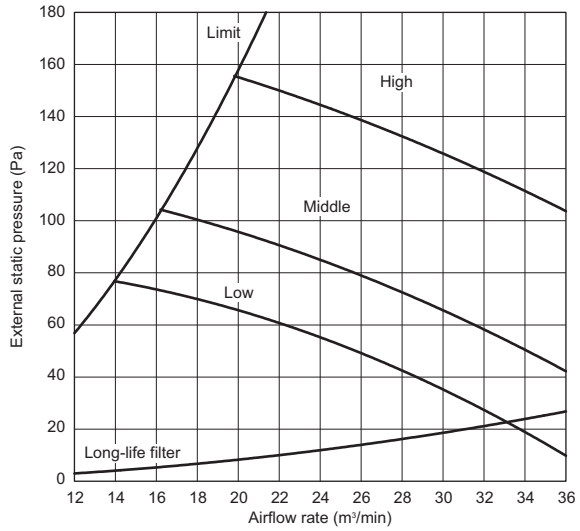
PEFY-P71VMHS-E
External static pressure : 50Pa
Power source : 220-240V, 50/60Hz



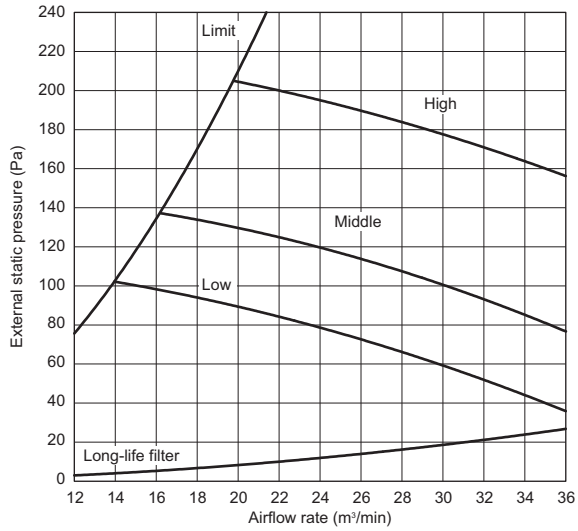
PEFY-P71VMHS-E
External static pressure : 100Pa
Power source : 220-240V, 50/60Hz



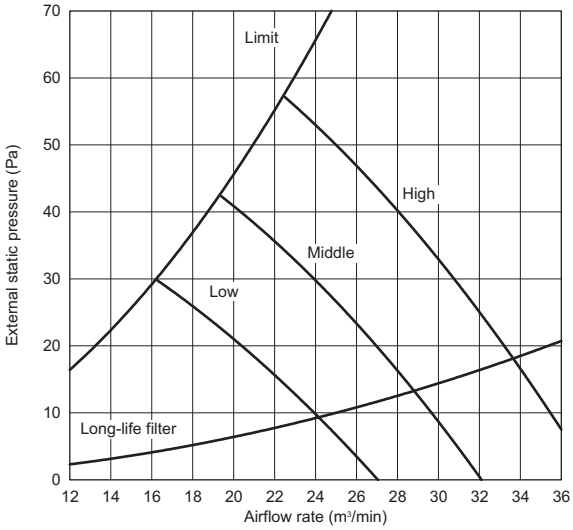
PEFY-P71VMHS-E
External static pressure : 150Pa
Power source : 220-240V, 50/60Hz



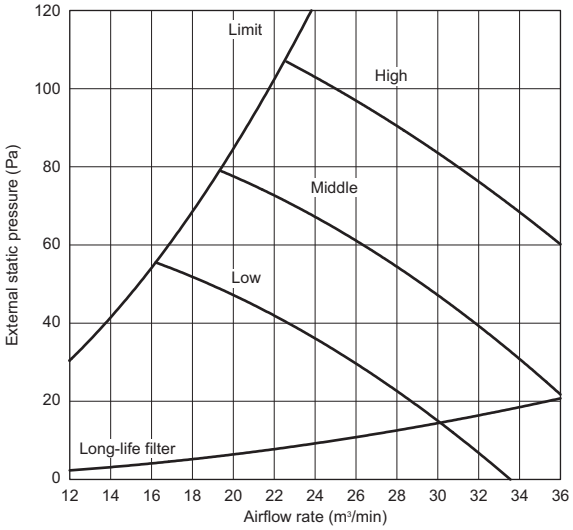
PEFY-P71VMHS-E
External static pressure : 200Pa
Power source : 220-240V, 50/60Hz



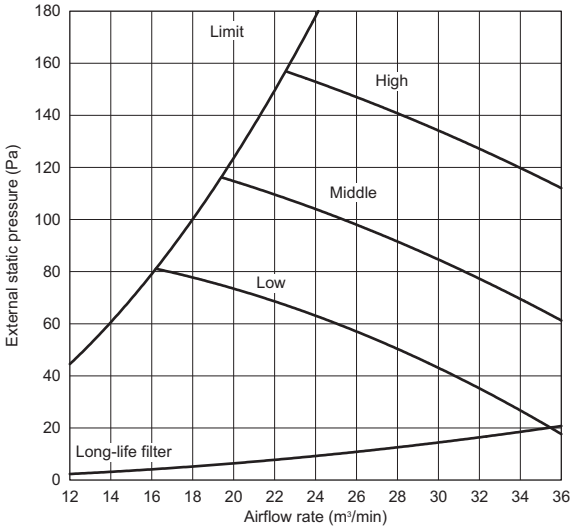
PEFY-P80VMHS-E
External static pressure : 50Pa
Power source : 220-240V, 50/60Hz



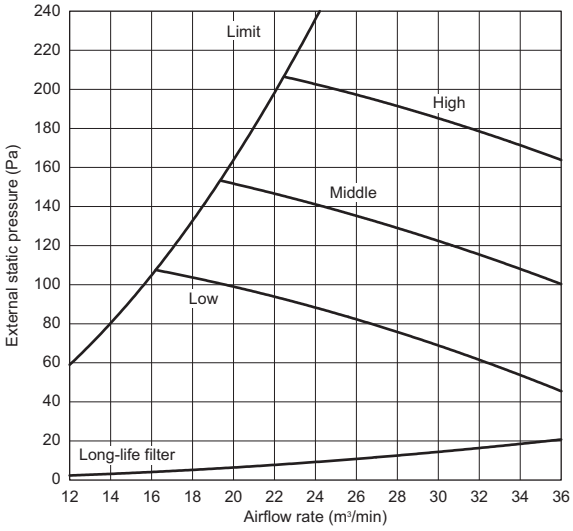
PEFY-P80VMHS-E
External static pressure : 100Pa
Power source : 220-240V, 50/60Hz



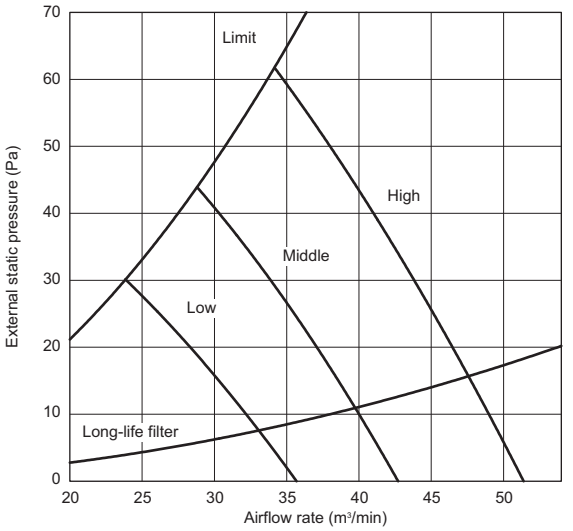
PEFY-P80VMHS-E
External static pressure : 150Pa
Power source : 220-240V, 50/60Hz



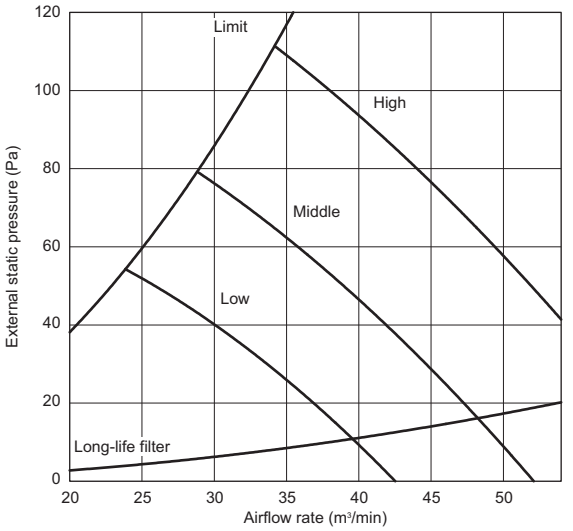
PEFY-P80VMHS-E
External static pressure : 200Pa
Power source : 220-240V, 50/60Hz



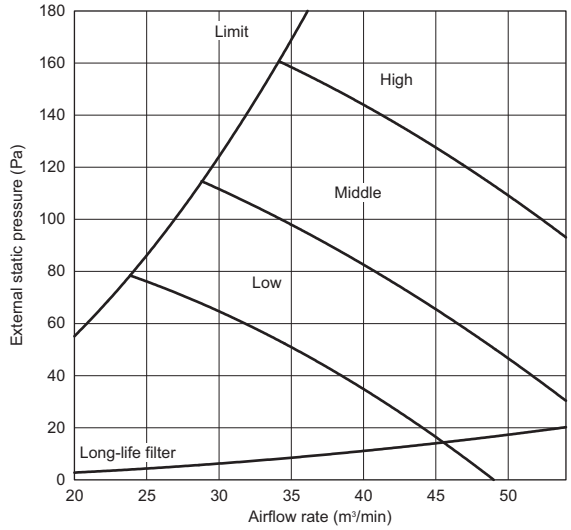
PEFY-P100, 125VMHS-E
External static pressure : 50Pa
Power source : 220-240V, 50/60Hz



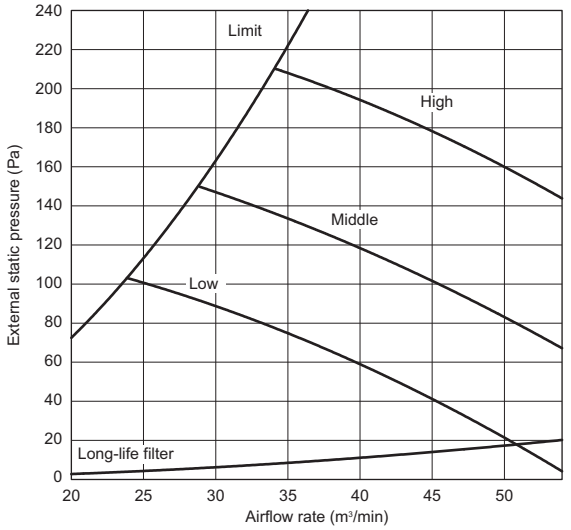
PEFY-P100, 125VMHS-E
External static pressure : 100Pa
Power source : 220-240V, 50/60Hz



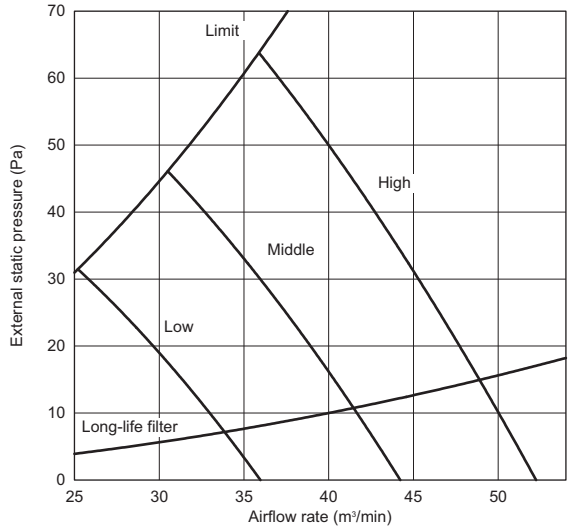
PEFY-P100, 125VMHS-E
External static pressure : 150Pa
Power source : 220-240V, 50/60Hz



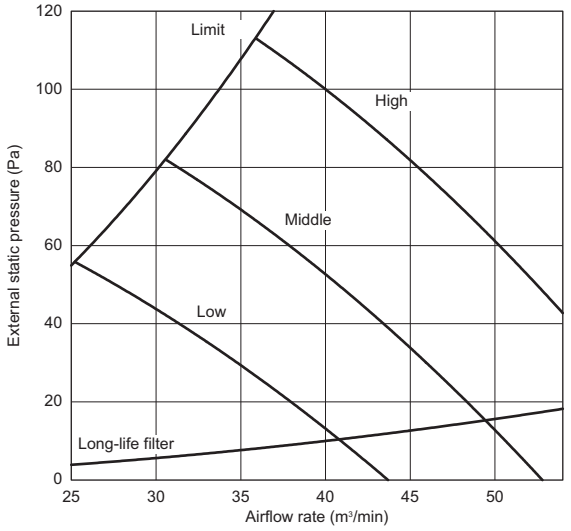
PEFY-P100, 125VMHS-E
External static pressure : 200Pa
Power source : 220-240V, 50/60Hz



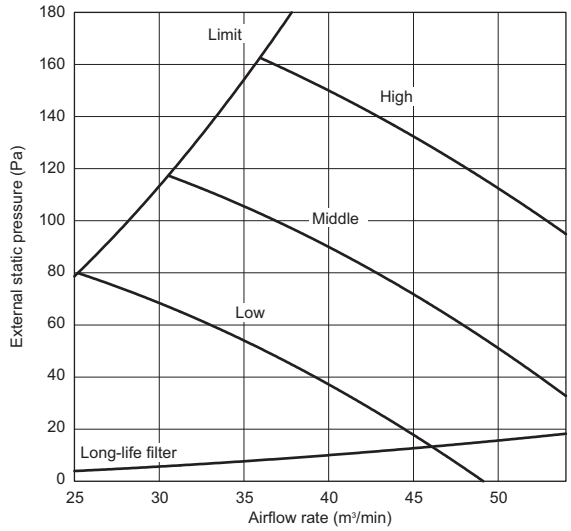
PEFY-P140VMHS-E
External static pressure : 50Pa
Power source : 220-240V, 50/60Hz



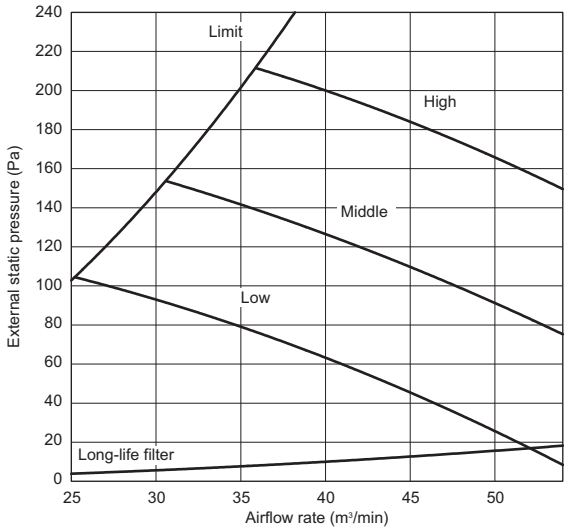
PEFY-P140VMHS-E
External static pressure : 100Pa
Power source : 220-240V, 50/60Hz



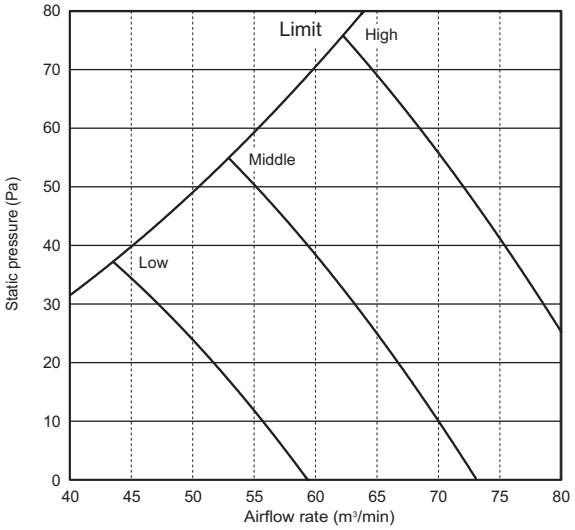
PEFY-P140VMHS-E
External static pressure : 150Pa
Power source : 220-240V, 50/60Hz



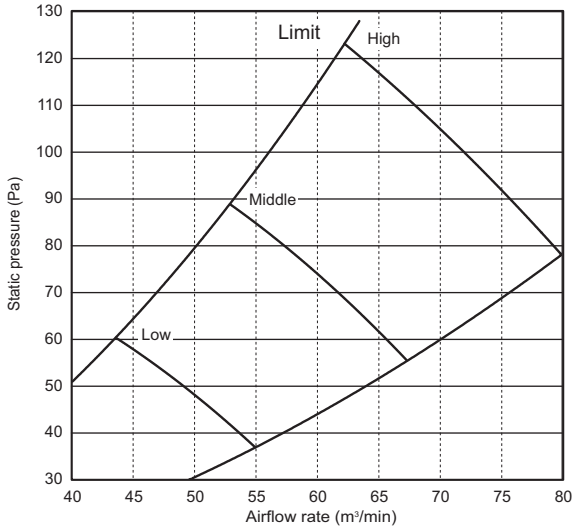
PEFY-P140VMHS-E
External static pressure : 200Pa
Power source : 220-240V, 50/60Hz



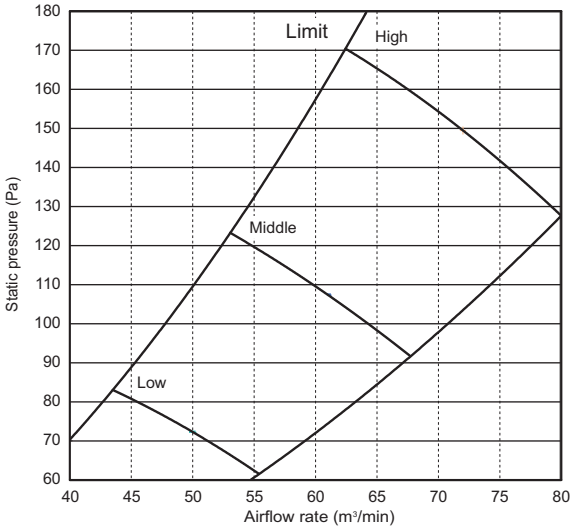
PEFY-P200VMHS-E
External static pressure : 50Pa
Power source : 220,230,240V, 50/60Hz



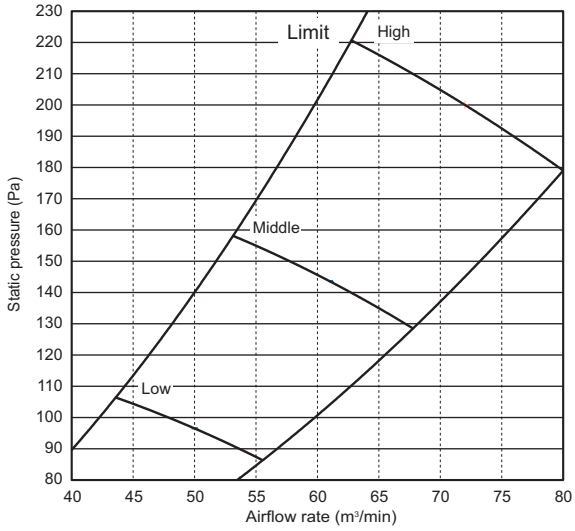
PEFY-P200VMHS-E
External static pressure : 100Pa
Power source : 220,230,240V, 50/60Hz



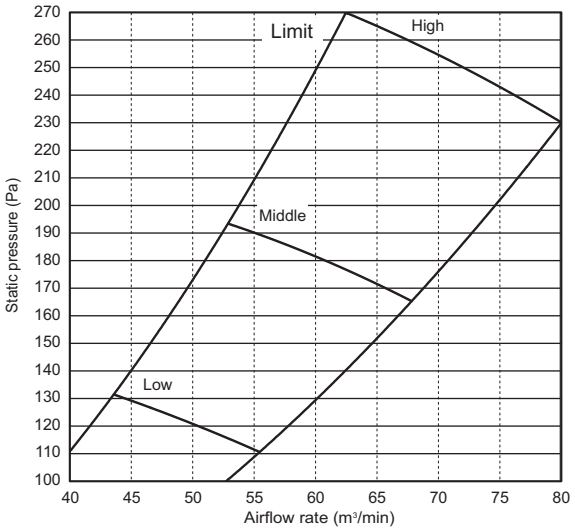
PEFY-P200VMHS-E
External static pressure : 150Pa
Power source : 220,230,240V, 50/60Hz



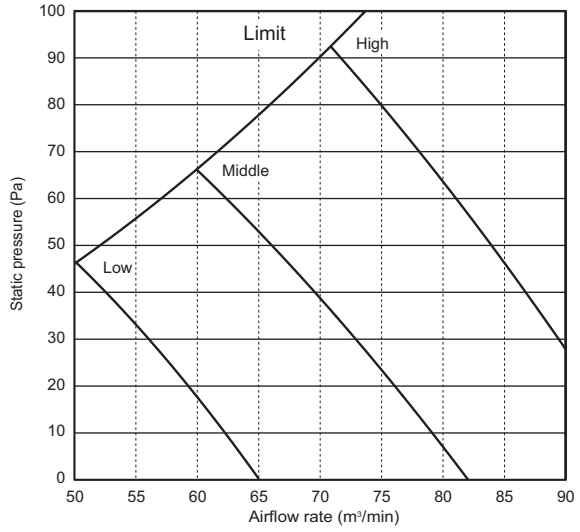
PEFY-P200VMHS-E
External static pressure : 200Pa
Power source : 220,230,240V, 50/60Hz



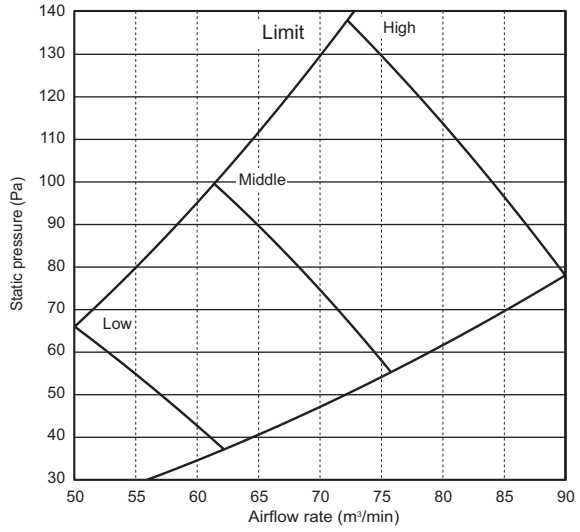
PEFY-P200VMHS-E
External static pressure : 250Pa
Power source : 220,230,240V, 50/60Hz



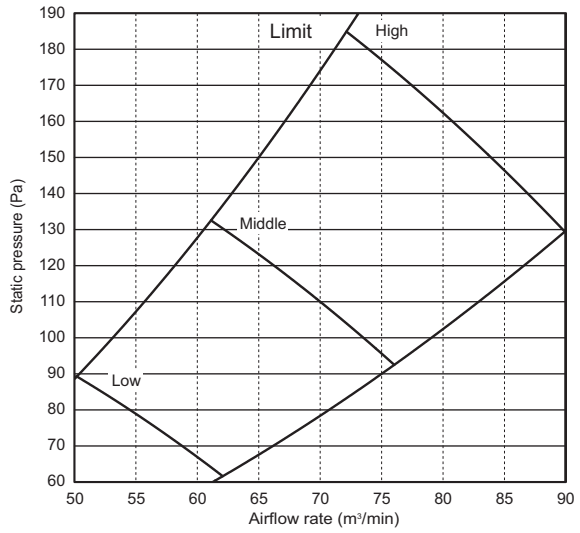
PEFY-P250VMHS-E
External static pressure : 50Pa
Power source : 220,230,240V, 50/60Hz



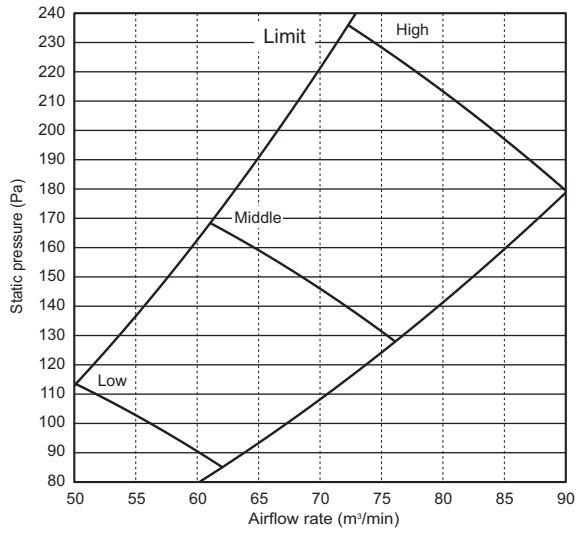
PEFY-P250VMHS-E
External static pressure : 100Pa
Power source : 220,230,240V, 50/60Hz



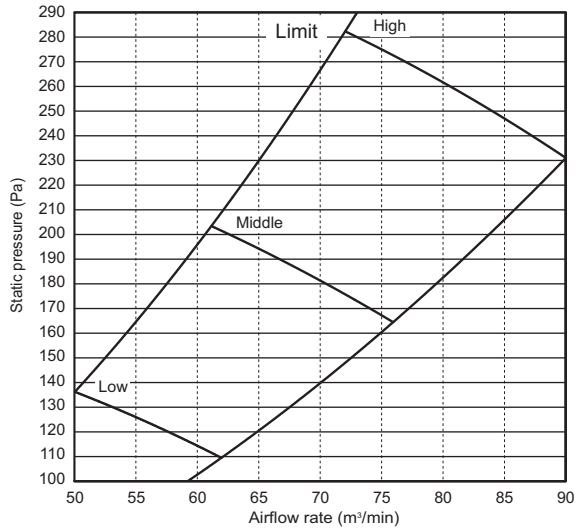
PEFY-P250VMHS-E
External static pressure : 150Pa
Power source : 220,230,240V, 50/60Hz



PEFY-P250VMHS-E
External static pressure : 200Pa
Power source : 220,230,240V, 50/60Hz



PEFY-P250VMHS-E
External static pressure : 250Pa
Power source : 220,230,240V, 50/60Hz



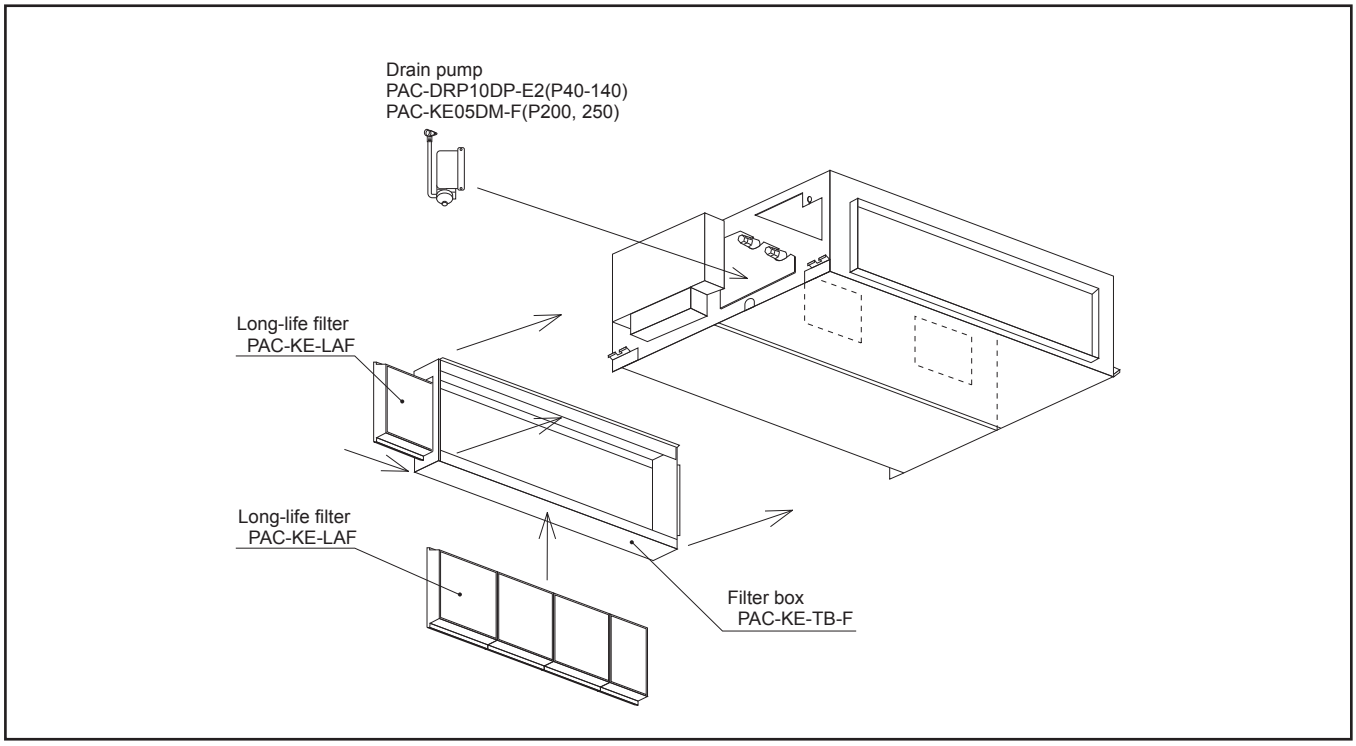
Symbols: MCA (Max.Circuit Amps =1.25xFLA), FLA (Full Load Amps)
IFM (Indoor Fan Motor), Output (Fan motor rated output)

PEFY-P-VMHS-E	Power supply			IFM	
	Volts/Hz	Range +-10%	MCA(A) (50/60Hz)	Output (kW)	FLA(A) (50/60Hz)
PEFY-P40VMHS-E	220-240V/50Hz 220-240V/60Hz	Max.: 264V Min.: 198V	1.78	0.121	1.42
PEFY-P50VMHS-E			1.78	0.121	1.42
PEFY-P63VMHS-E			1.97	0.121	1.57
PEFY-P71VMHS-E			2.38	0.244	1.90
PEFY-P80VMHS-E			2.45	0.244	1.96
PEFY-P100VMHS-E			3.85	0.375	3.08
PEFY-P125VMHS-E			3.85	0.375	3.08
PEFY-P140VMHS-E			3.93	0.375	3.14
PEFY-P200VMHS-E			7.00	0.87	5.60
PEFY-P250VMHS-E			7.50	0.87	6.00

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

	Long-life filter	Filter box	Drain pump
PEFY-P40, 50, 63VMHS-E	PAC-KE86LAF	PAC-KE63TB-F	PAC-DRP10DP-E2
PEFY-P71, 80VMHS-E	PAC-KE88LAF	PAC-KE99TB-F	PAC-DRP10DP-E2
PEFY-P100, 125, 140VMHS-E	PAC-KE89LAF	PAC-KE140TB-F	PAC-DRP10DP-E2
PEFY-P200, 250VMHS-E	PAC-KE85LAF	PAC-KE250TB-F	PAC-KE05DM-F

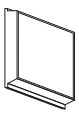
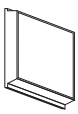
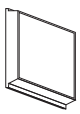
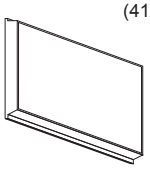
PEFY-P-VMHS-E



8-2. Long-life filter

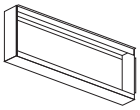
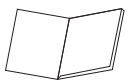
Life span: 2,500 hr (Dust concentration 0.15mg/m^3)
* The actual dust situation affects the filter life span, which should be considered at the applying site.
Material: Synthetic fiber unwoven cloth filter
Static pressure loss is referred to 6 “FAN CHARACTERISTICS CURVES”.
Long-life filter should be used together with filter box PAC-KE-TB-F.

PAC-KE-LAF

Item	PAC-KE86LAF	PAC-KE88LAF	PAC-KE89LAF	PAC-KE85LAF
Quantity	2	3	3	2
Shape	(298X300) 	(298X300) 	(298X300) 	(411X600) 

Detailed installation information should be referred to its Installation Manual.

PAC-KE-TB-F

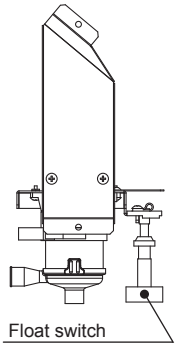
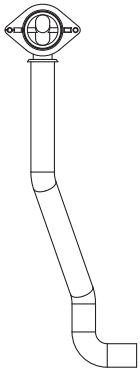
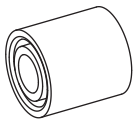
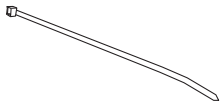
Item	① Screw	② Filter box	③ Installation manual	
Quantity	10/12*	1	1	
Shape				*PAC-KE250TB has 12 pieces of screw.

Detailed installation information should be referred to its Installation Manual.

8-3. Drain pump

If drain water can not flow out the Indoor unit by gravity and gradient, a Drain-pump for draining is needed.
Drain pump PAC-DRP10DP-E2 can pump water up to 550mm [21-11/16 in.] high from the drain pan.

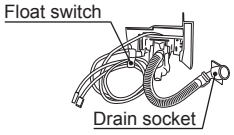
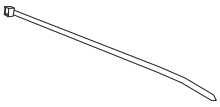
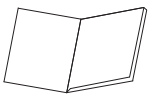
PAC-DRP10DP-E2

Item	① Drain pump ass'y	② Drain socket ass'y	③ Rubber plug	④ Band	⑤ PTT screw 4 × 10
Quantity	1	1	1	3	2 + 1 (spare)
Shape					

Detailed installation information should be referredto its Installation Manual.

If drain water can not flow out the Indoor unit by gravity and gradient, a Drain-pump for draining is needed.
Drain pump PAC-KE05DM-F can pump water up to 700mm [27-9/16 in.] high from the drain pan.

PAC-KE05DM-F

Item	① Drain pump ass'y	② Rubber plug	③ Rubber bushing	④ Band	⑤ PTT screw 4X10
Quantity	1	2	1	2	6+1 (spare)
Shape					
Item	⑥ Installation manual				
Quantity	1				
Shape					

Detailed installation information should be referredto its Installation Manual.

for a greener tomorrow

Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.

⚠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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Specifications subject to change without notice