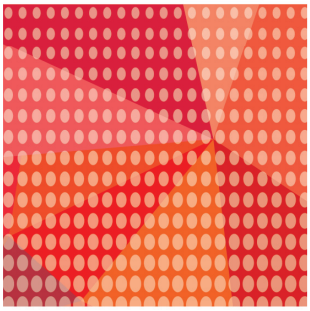
MITSUBISHI ELECTRIC

Changes for the Better

AIR CONDITIONING SYSTEMS

HYBRID CITY MULTI



DATA BOOK

MODEL

PEFY-WL-VMHS-A

CONTENTS

PEFY-WL-VMHS-A

1. SPECIFICATIONS

Model				PEFY-WL40VMHS-A	PEFY-WL50VMHS-A	PEFY-WL63VMHS-A	PEFY-WL71VMHS-A
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		BTU/h	15,400	19,100	24,200	27,300
	*2	Power input	kW	0.055	0.077	0.095	0.075
	*2	Current input	A	0.41-0.39-0.38	0.58-0.55-0.52	0.70-0.67-0.64	0.54-0.52-0.50
Heating capacity	*3		kW	5.0	6.3	8.0	9.0
(Nominal)	*3		BTU/h	17,100	21,500	27,300	30,700
	*2	Power input	kW	0.055	0.077	0.095	0.075
	*2	Current input	A	0.41-0.39-0.38	0.58-0.55-0.52	0.70-0.67-0.64	0.54-0.52-0.50
External finish				Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate
External dimension H × W × 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)	36 (80)	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)
		Water Volume	L	1.4	1.4	1.8	1.8
FAN		Type × 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	13.0 - 15.0 - 18.0	13.5 - 16.0 - 19.0	15.5 - 18.0 - 22.0
			L/s	167 - 200 - 233	217 - 250 - 300	225 - 267 - 317	258 - 300 - 367
			cfm	353 - 424 - 494	459 - 530 - 636	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>	22.0-25.0-29.0	24.0-27.0-32.0	25.5-28.5-32.5	24.0-27.0-31.0
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				Flow control valve	Flow control valve	Flow control valve	Flow control valve
Connectable HBC/Hydro unit				CMB-WM-V-AA, CMB-WM-F-AA, CMB-WM-V-BB/CMH-WM-V-A	CMB-WM-V-AA, CMB-WM-F-AA, CMB-WM-V-BB/CMH-WM-V-A	CMB-WM-V-AA, CMB-WM-F-AA, CMB-WM-V-BB/CMH-WM-V-A	CMB-WM-V-AA, CMB-WM-F-AA, CMB-WM-V-BB/CMH-WM-V-A
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	30	30
		Outlet	mm I.D.	20	20	30	30
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		KB94C3VR	KB94C3VR	KB94C3VR	KB94C3VR
		Wiring		KB94C3VS	KB94C3VS	KB94C3VS	KB94C3VS
		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		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
		Valve kit	*7	PAC-SK35VK-E	PAC-SK35VK-E	PAC-SK35VK-E	PAC-SK35VK-E
			6m Lead wire	PAC-SK40LW-E	PAC-SK40LW-E	PAC-SK40LW-E	PAC-SK40LW-E
			Attachment plate	PAC-SK39AP-E	PAC-SK39AP-E	PAC-SK39AP-E	PAC-SK39AP-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: 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 airflow mode and external static pressure mode 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.
7.Certain restrictions apply to indoor unit combinations.
Refer to the section on the valve kit in the chapter "OPTIONAL PARTS" in the DATA BOOK for the restrictions.
When the valve kit is installed farther away from the HBC than the distance between the HBC and the WL-model indoor unit, the maximum allowable height difference between the HBC and the valve kit is 15 meters.
The maximum allowable piping length between the indoor unit and the valve kit is 5 meters.
• Please group units that operate on 1 branch.

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-WL80VMHS-A	PEFY-WL100VMHS-A	PEFY-WL125VMHS-A	
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	
Cooling capacity		*1	kW	9.0	11.2	14.0	
(Nominal)		*1	BTU/h	30,700	38,200	47,800	
	*2	Power input	kW	0.090	0.160	0.175	
	*2	Current input	A	0.63-0.61-0.58	1.05-1.01-0.96	1.17-1.13-1.09	
Heating capacity		*3	kW	10.0	12.5	16.0	
(Nominal)		*3	BTU/h	34,100	42,700	54,600	
	*2	Power input	kW	0.090	0.160	0.175	
	*2	Current input	A	0.63-0.61-0.58	1.05-1.01-0.96	1.17-1.13-1.09	
External finish				Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	
External dimension H × W × D			mm	380 x 1,030 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	
Net weight			kg (lbs)	45 (100)	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)	
	Water Volume		L	1.8	2.3	2.9	
FAN	Type × Quantity			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>	
			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>	
	Motor Type			DC motor	DC motor	DC motor	
	Motor output		kW	0.244	0.375	0.375	
	Driving mechanism			Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	
	Air flow rate			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	
			m^3/min	18.0 - 21.5 - 25.0	26.5 - 32.0 - 38.0	26.5 - 32.0 - 38.0	
			L/s	300 - 358 - 417	442 - 533 - 633	442 - 533 - 633	
			cfm	636 - 759 - 883	936 - 1,130 - 1,342	936 - 1,130 - 1,342	
Sound pressure level (measured in anechoic room)				(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	
		*2	dB <A>	26.0-29.0-32.0	28.0-32.0-36.0	28.0-32.0-36.0	
Insulation material				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.	
Protection device				Fuse	Fuse	Fuse	
Refrigerant control device				Flow control valve	Flow control valve	Flow control valve	
Connectable HBC/Hydro unit				CMB-WM-V-AA, CMB-WM-F-AA, CMB-WM-V-BB/CMH-WM-V-A	CMB-WM-V-AA, CMB-WM-F-AA, CMB-WM-V-BB/CMH-WM-V-A	CMB-WM-V-AA, CMB-WM-F-AA, CMB-WM-V-BB/CMH-WM-V-A	
Water piping diameter		*5, 6					
Connection size	Inlet		mm O.D.	22	22	22	
	Outlet		mm O.D.	22	22	22	
Field pipe size	Inlet		mm I.D.	30	30	30	
	Outlet		mm I.D.	30	30	30	
Field drain pipe size			mm (in.)	O.D.32 (1-1/4)	O.D.32 (1-1/4)	O.D.32 (1-1/4)	
Drawing	External			KB94C3VR	KB94C3VR	KB94C3VR	
	Wiring			KB94C3VS	KB94C3VS	KB94C3VS	
	Refrigerant cycle			-	-	-	
Standard attachment	Document			Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book	
	Accessory			Washer, Drain hose, Tie band	Washer, Drain hose, Tie band	Washer, Drain hose, Tie band	
Optional parts	Drain pump kit			PAC-DRP10DP-E2	PAC-DRP10DP-E2	PAC-DRP10DP-E2	
	Long life filter			PAC-KE88LAF	PAC-KE89LAF	PAC-KE89LAF	
	Filter box			PAC-KE99TB-F	PAC-KE140TB-F	PAC-KE140TB-F	
	Valve kit		*7	PAC-SK35VK-E	PAC-SK35VK-E	PAC-SK35VK-E	
		6m Lead wire		PAC-SK40LW-E	PAC-SK40LW-E	PAC-SK40LW-E	
		Attachment plate		PAC-SK39AP-E	PAC-SK39AP-E	PAC-SK39AP-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: 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 airflow mode and external static pressure mode 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.
7.Certain restrictions apply to indoor unit combinations.
Refer to the section on the valve kit in the chapter "OPTIONAL PARTS" in the DATA BOOK for the restrictions.
When the valve kit is installed farther away from the HBC than the distance between the HBC and the WL-model indoor unit, the maximum allowable height difference between the HBC and the valve kit is 15 meters.
The maximum allowable piping length between the indoor unit and the valve kit is 5 meters.
• Please group units that operate on 1 branch.

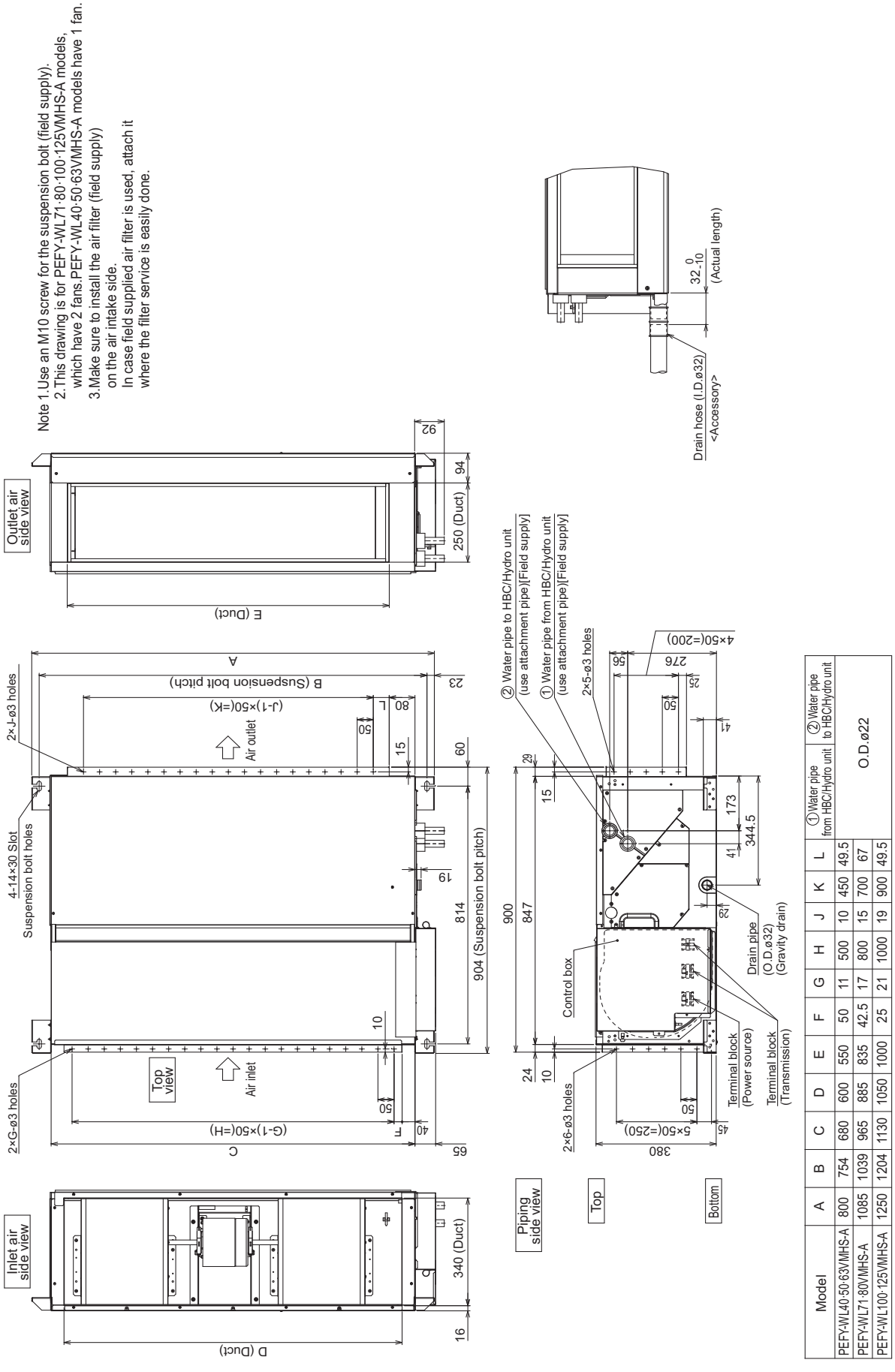
Unit converter

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-WL40, 50, 63, 71, 80, 100, 125VMHS-A

Unit: mm



Model	A	B	C	D	E	F	G	H	J	K	L	① Water pipe from HBC/Hydro unit	② Water pipe to HBC/Hydro unit
PEFY-WL40·50·63VMHS-A	800	754	680	600	550	50	11	500	10	450	49.5	O.D.ø22	
PEFY-WL71·80VMHS-A	1085	1039	965	885	835	42.5	17	800	15	700	67		
PEFY-WL100·125VMHS-A	1250	1204	1130	1050	1000	25	21	1000	19	900	49.5		

[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, 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)

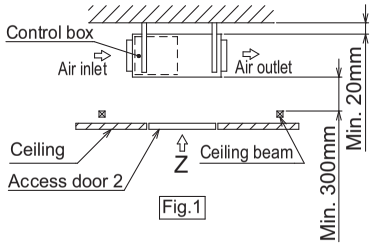


Fig.1

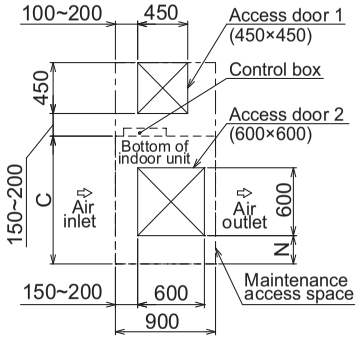


Fig.2 (Viewed from the direction of the arrow Z)

Model	C	M	N
PEFY-WL40·50·63VMHS-A	680	780	0~50
PEFY-WL71·80VMHS-A	965	1065	100~150
PEFY-WL100·125VMHS-A	1130	1230	200~250

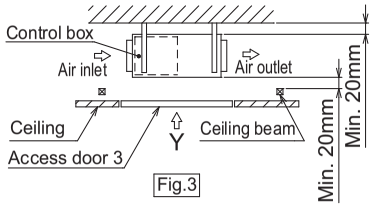


Fig.3

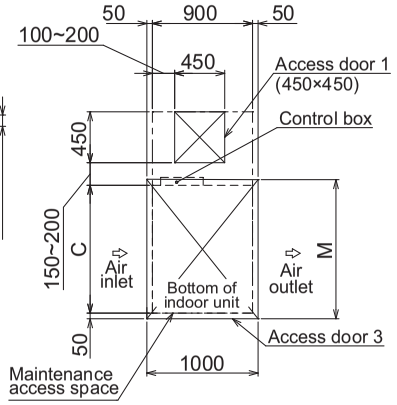
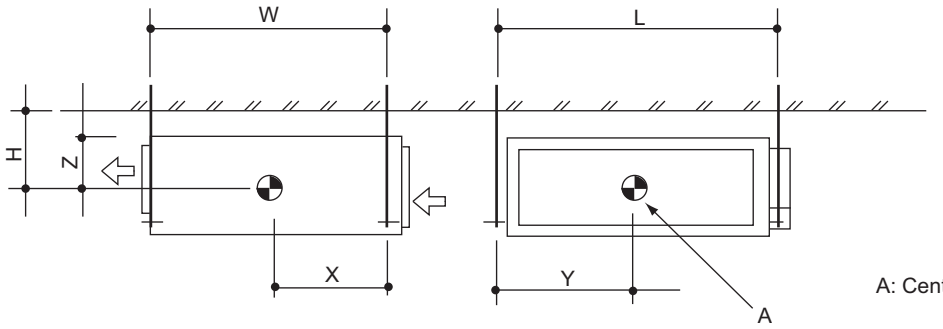


Fig.4 (Viewed from the direction of the arrow Y)

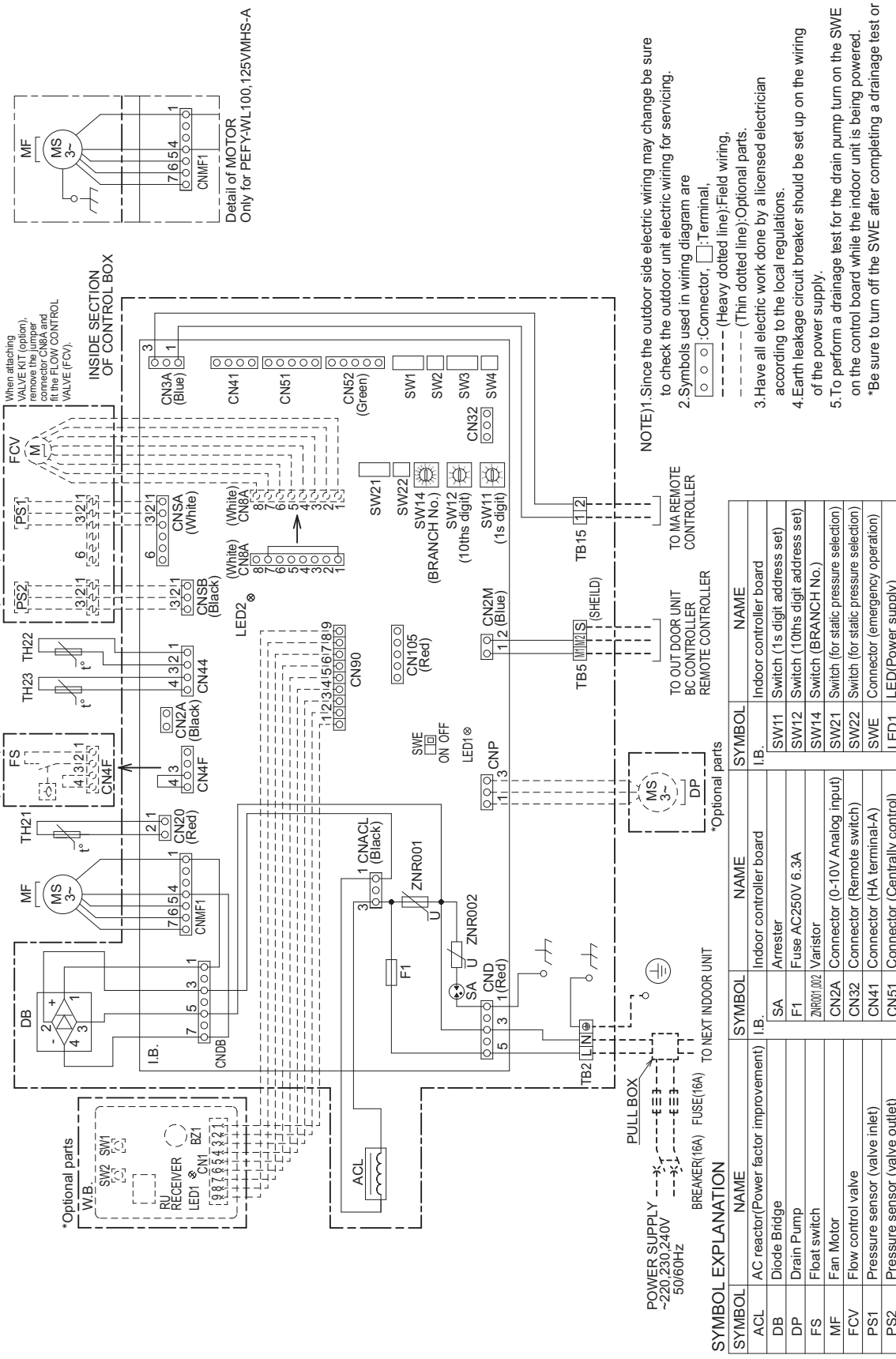
PEFY-WL40, 50, 63, 71, 80, 100, 125VMHS-A



(mm)[in]

Model name	W	L	H	X	Y	Z
PEFY-WL40VMHS-A	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-WL50VMHS-A	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-WL63VMHS-A	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-WL71VMHS-A	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-WL80VMHS-A	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-WL100VMHS-A	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-WL125VMHS-A	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-WL40, 50, 63, 71, 80, 100, 125VMHS-A



SYMBOL EXPLANATION

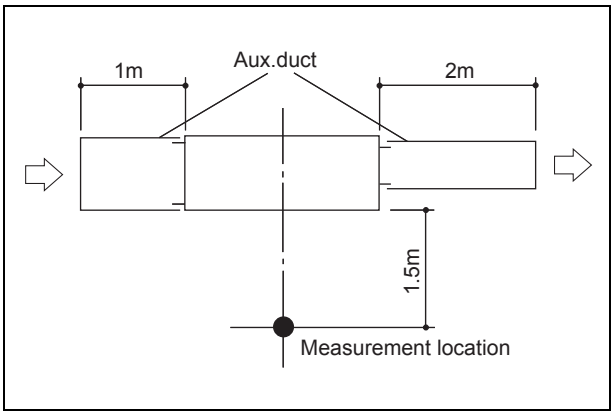
SYMBOL	NAME
ACL	AC reactor(Power factor improvement)
DB	Diode Bridge
DP	Drain Pump
FS	Float switch
MF	Fan Motor
FCV	Flow control valve
PS1	Pressure sensor (valve inlet)
PS2	Pressure sensor (valve outlet)
TB2	Power source terminal block
TB5	Transmission terminal block
TB15	Transmission terminal block
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
ZNR01,002	Varistor
CN2A	Connector (0-10V Analog input)
CN32	Connector (Remote switch)
CN41	Connector (HA terminal-A)
CN51	Connector (Centrally control)
CN52	Connector (Remote indication)
CN90	Connector (Wireless)
CN105	Connector (IT terminal)
SW1	Switch (for mode selection)
SW2	Switch (for capacity code)
SW3	Switch (for mode selection)
SW4	Switch (for model selection)

SYMBOL	NAME
I.B.	Indoor controller board
SW11	Switch (1s digit address set)
SW12	Switch (10ths digit address set)
SW14	Switch (BRANCH No.)
SW21	Switch (for static pressure selection)
SW22	Switch (for static pressure selection)
SWE	Connector (emergency operation)
LED1	LED(Power supply)
LED2	LED(Remote controller supply)
W.B.	Wireless remote controller board
BZ1	Buzzer
LED1	LED(Run indicator)
RU	Receiving unit
SW1	Switch (Heating on/off)
SW2	Switch (Cooling on/off)

5-1. Sound levels

PEFY-WL-VMHS-A



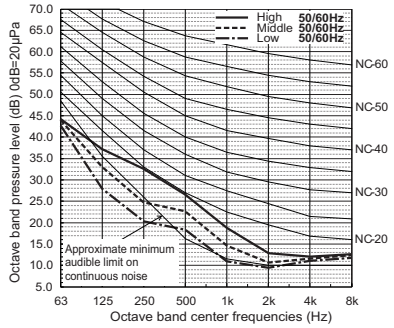
* Measured in anechoic room.

Sound level at anechoic room: Low-Mid-High

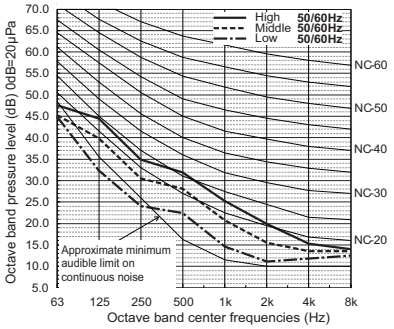
		Sound level dB (A)			
		50Pa	100Pa	150Pa	200Pa
PEFY-WL40VMHS-A	220-240V	22-25-29	25-30-34	30-34-38	33-37-41
PEFY-WL50VMHS-A	220-240V	24-27--32	28-31-36	31-35-39	34-37-42
PEFY-WL63VMHS-A	220-240V	25.5-28.5-32.5	28-32-36	32-35-39	34-37-41
PEFY-WL71VMHS-A	220-240V	24-27-31	28-31-36	31-35-40	34-37-42
PEFY-WL80VMHS-A	220-240V	26-29-32	29-33-37	32-36-40	36-40-43
PEFY-WL100VMHS-A	220-240V	28-32-36	30-34-39	32-37-42	35-40-45
PEFY-WL125VMHS-A	220-240V	28-32-36	30-34-39	32-37-42	35-40-45

5-2. NC curves

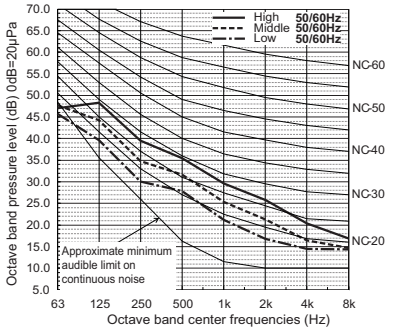
PEFY-WL40VMHS-A
External Static Pressure: 50Pa [0.20in.WG]
Power Source: 220-240V, 50/60Hz



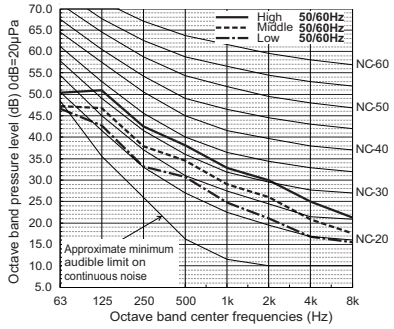
PEFY-WL40VMHS-A
External Static Pressure: 100Pa [0.40in.WG]
Power Source: 220-240V, 50/60Hz



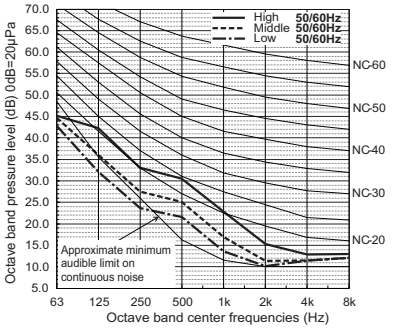
PEFY-WL40VMHS-A
External Static Pressure: 150Pa [0.60in.WG]
Power Source: 220-240V, 50/60Hz



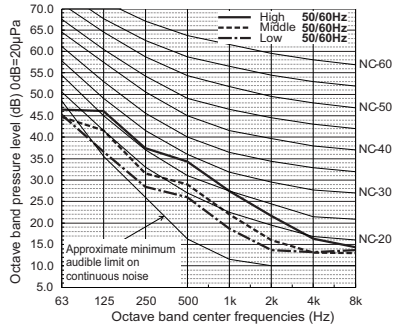
PEFY-WL40VMHS-A
External Static Pressure: 200Pa [0.80in.WG]
Power Source: 220-240V, 50/60Hz



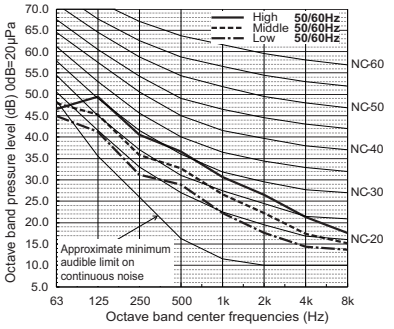
PEFY-WL50VMHS-A
External Static Pressure: 50Pa [0.20in.WG]
Power Source: 220-240V, 50/60Hz



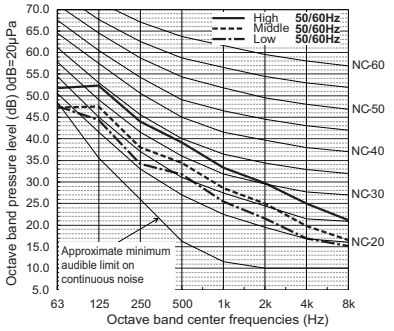
PEFY-WL50VMHS-A
External Static Pressure: 100Pa [0.40in.WG]
Power Source: 220-240V, 50/60Hz



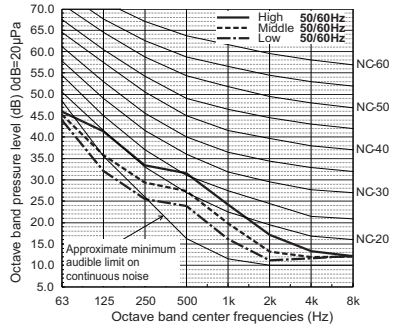
PEFY-WL50VMHS-A
External Static Pressure: 150Pa [0.60in.WG]
Power Source: 220-240V, 50/60Hz



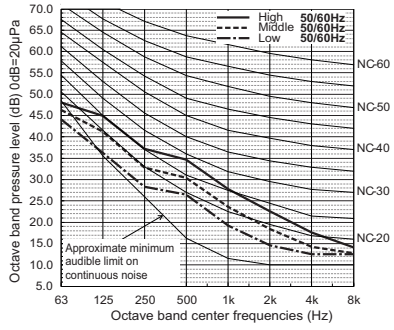
PEFY-WL50VMHS-A
External Static Pressure: 200Pa [0.80in.WG]
Power Source: 220-240V, 50/60Hz



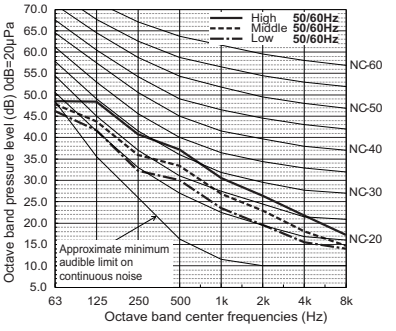
PEFY-WL63VMHS-A
External Static Pressure: 50Pa [0.20in.WG]
Power Source: 220-240V, 50/60Hz



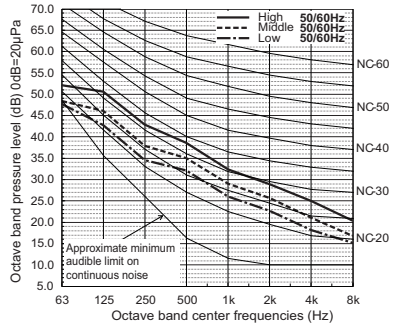
PEFY-WL63VMHS-A
External Static Pressure: 100Pa [0.40in.WG]
Power Source: 220-240V, 50/60Hz



PEFY-WL63VMHS-A
External Static Pressure: 150Pa [0.60in.WG]
Power Source: 220-240V, 50/60Hz

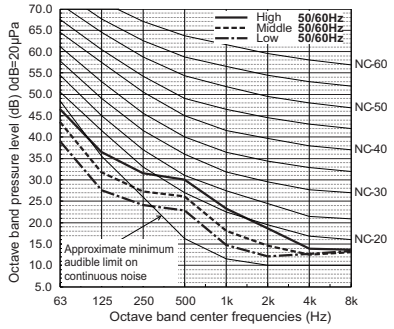


PEFY-WL63VMHS-A
External Static Pressure: 200Pa [0.80in.WG]
Power Source: 220-240V, 50/60Hz

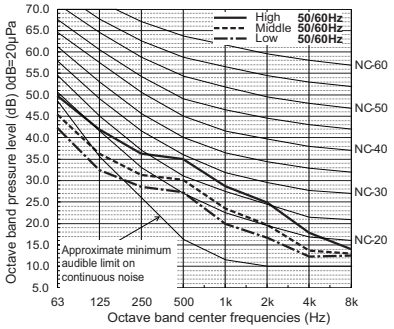


5. SOUND LEVELS

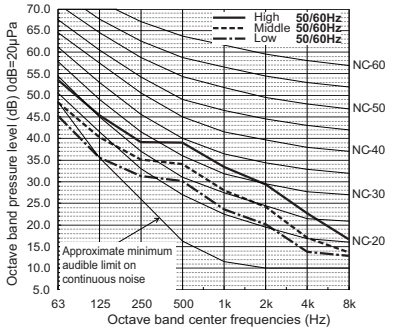
PEFY-WL71VMHS-A
External Static Pressure: 50Pa [0.20in.WG]
Power Source: 220-240V, 50/60Hz



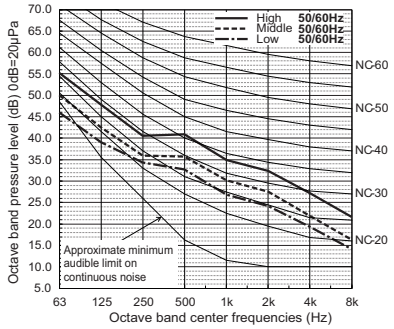
PEFY-WL71VMHS-A
External Static Pressure: 100Pa [0.40in.WG]
Power Source: 220-240V, 50/60Hz



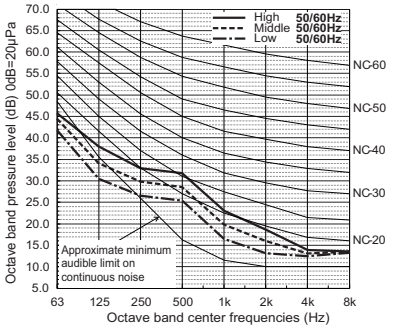
PEFY-WL71VMHS-A
External Static Pressure: 150Pa [0.60in.WG]
Power Source: 220-240V, 50/60Hz



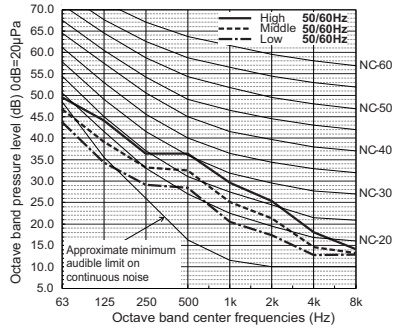
PEFY-WL71VMHS-A
External Static Pressure: 200Pa [0.80in.WG]
Power Source: 220-240V, 50/60Hz



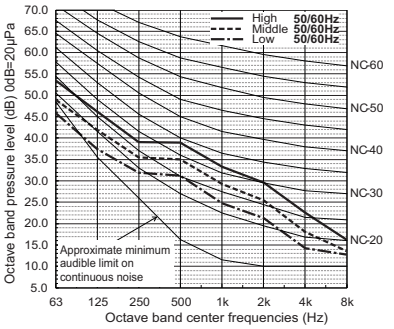
PEFY-WL80VMHS-A
External Static Pressure: 50Pa [0.20in.WG]
Power Source: 220-240V, 50/60Hz



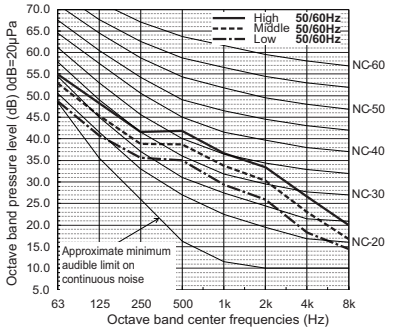
PEFY-WL80VMHS-A
External Static Pressure: 100Pa [0.40in.WG]
Power Source: 220-240V, 50/60Hz



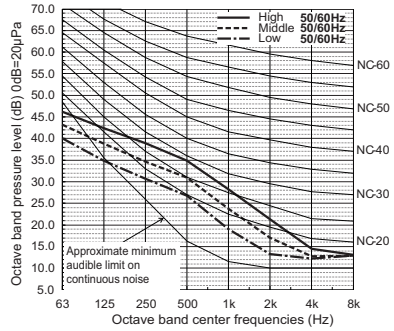
PEFY-WL80VMHS-A
External Static Pressure: 150Pa [0.60in.WG]
Power Source: 220-240V, 50/60Hz



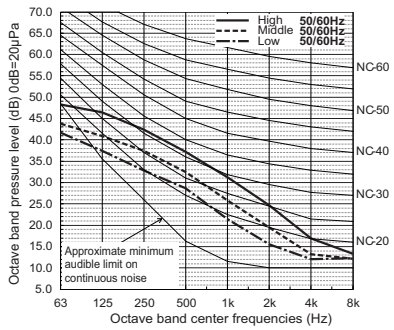
PEFY-WL80VMHS-A
External Static Pressure: 200Pa [0.80in.WG]
Power Source: 220-240V, 50/60Hz



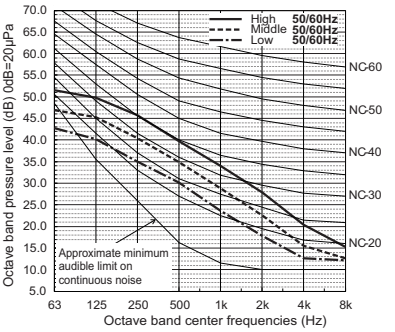
PEFY-WL100VMHS-A
External Static Pressure: 50Pa [0.20in.WG]
Power Source: 220-240V, 50/60Hz



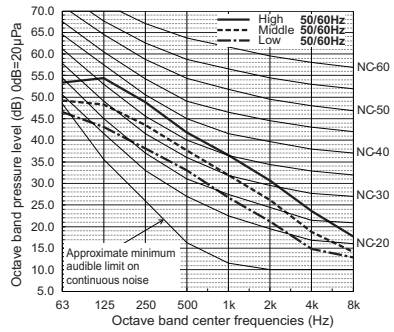
PEFY-WL100VMHS-A
External Static Pressure: 100Pa [0.40in.WG]
Power Source: 220-240V, 50/60Hz



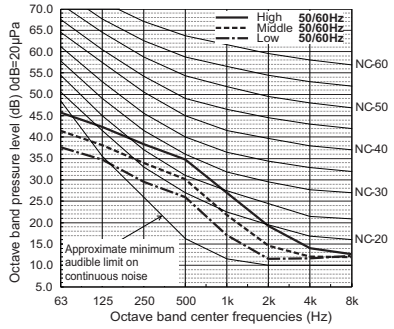
PEFY-WL100VMHS-A
External Static Pressure: 150Pa [0.60in.WG]
Power Source: 220-240V, 50/60Hz



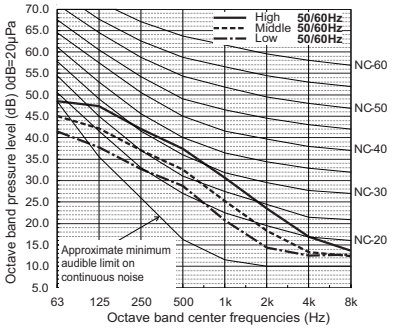
PEFY-WL100VMHS-A
External Static Pressure: 200Pa [0.80in.WG]
Power Source: 220-240V, 50/60Hz



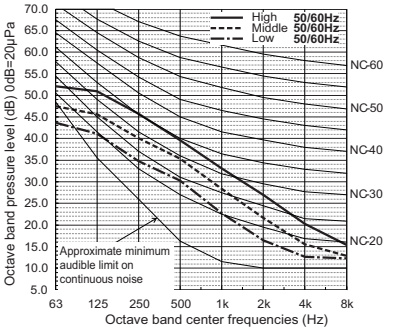
PEFY-WL125VMHS-A
External Static Pressure: 50Pa [0.20in.WG]
Power Source: 220-240V, 50/60Hz



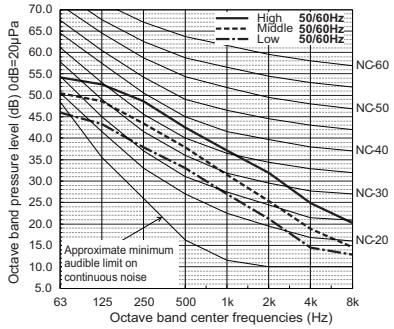
PEFY-WL125VMHS-A
External Static Pressure: 100Pa [0.40in.WG]
Power Source: 220-240V, 50/60Hz



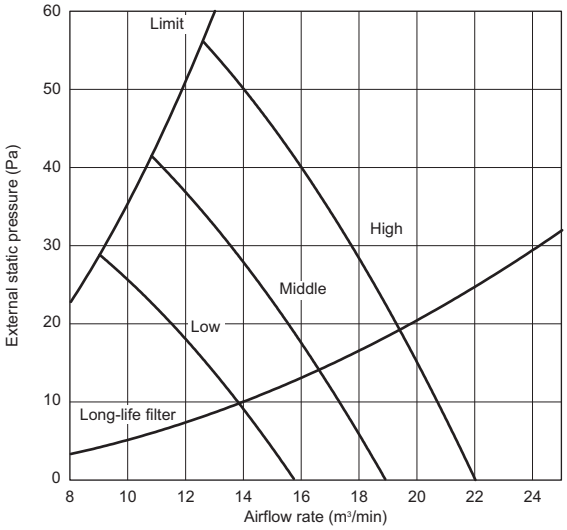
PEFY-WL125VMHS-A
External Static Pressure: 150Pa [0.60in.WG]
Power Source: 220-240V, 50/60Hz



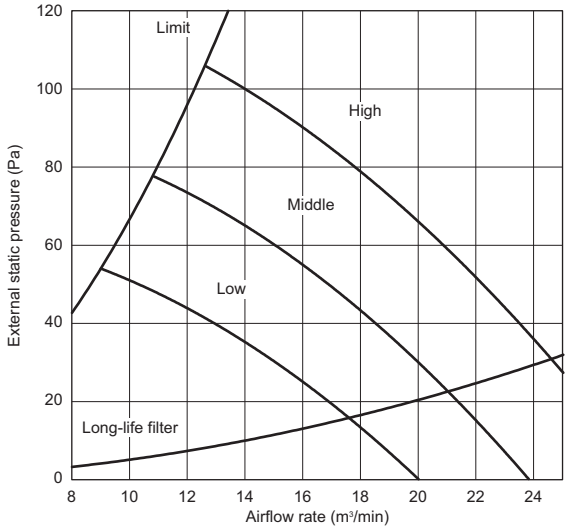
PEFY-WL125VMHS-A
External Static Pressure: 200Pa [0.80in.WG]
Power Source: 220-240V, 50/60Hz



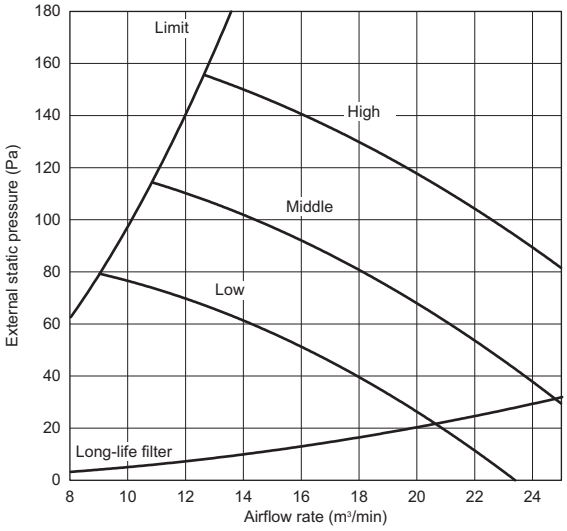
PEFY-WL40VMHS-A
External static pressure : 50Pa
Power source : 220-240V, 50/60Hz



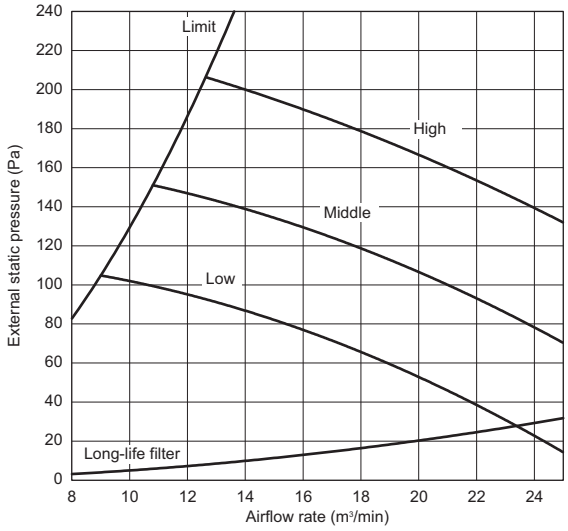
PEFY-WL40VMHS-A
External static pressure : 100Pa
Power source : 220-240V, 50/60Hz



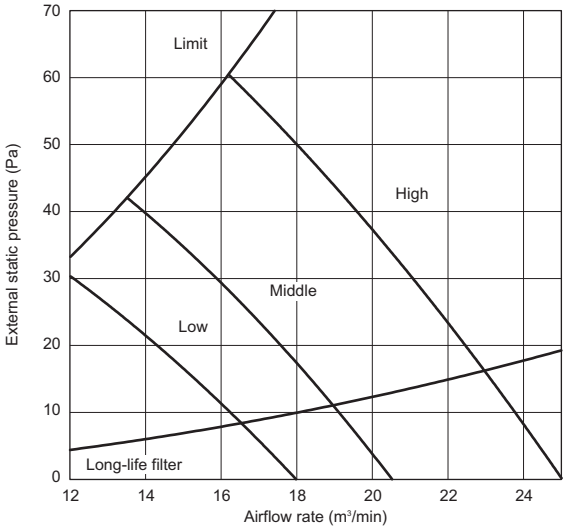
PEFY-WL40VMHS-A
External static pressure : 150Pa
Power source : 220-240V, 50/60Hz



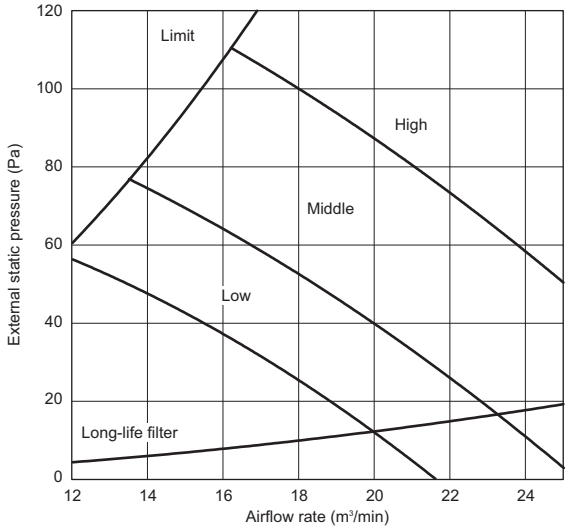
PEFY-WL40VMHS-A
External static pressure : 200Pa
Power source : 220-240V, 50/60Hz



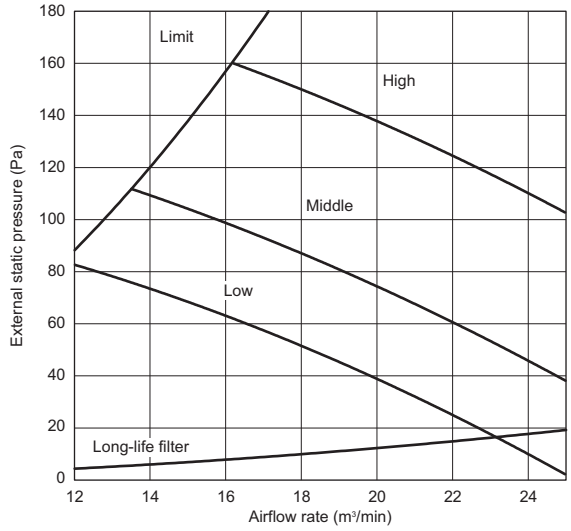
PEFY-WL50VMHS-A
External static pressure : 50Pa
Power source : 220-240V, 50/60Hz



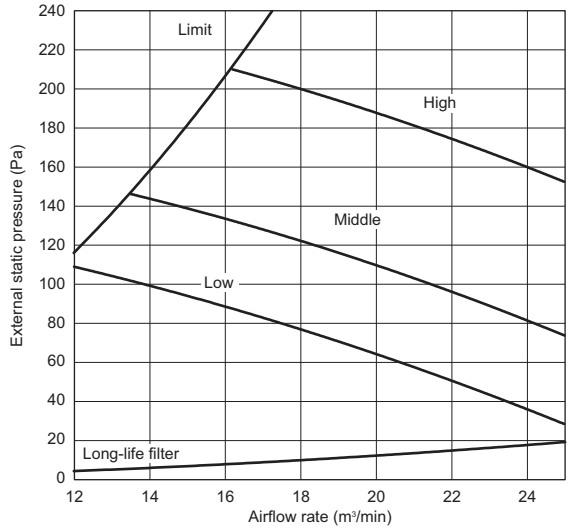
PEFY-WL50VMHS-A
External static pressure : 100Pa
Power source : 220-240V, 50/60Hz



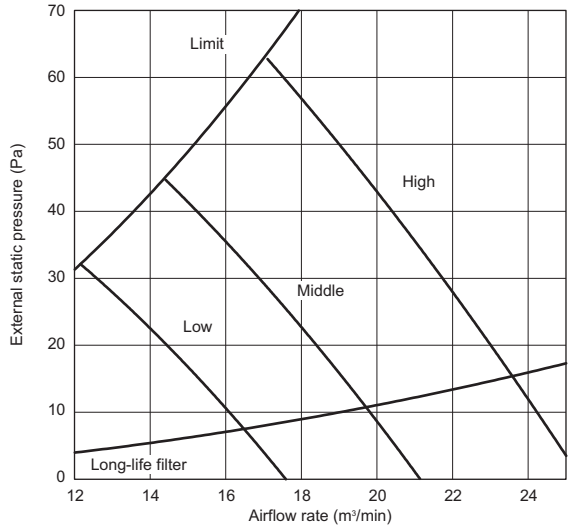
PEFY-WL50VMHS-A
External static pressure : 150Pa
Power source : 220-240V, 50/60Hz



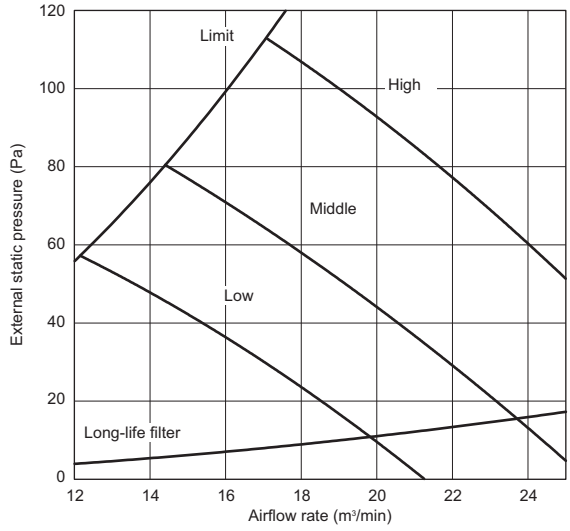
PEFY-WL50VMHS-A
External static pressure : 200Pa
Power source : 220-240V, 50/60Hz



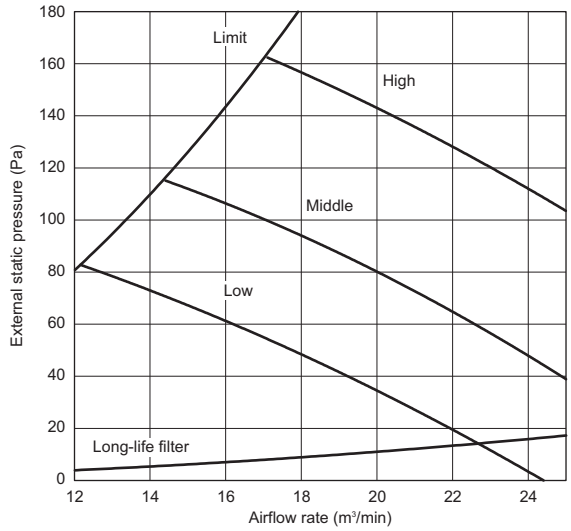
PEFY-WL63VMHS-A
External static pressure : 50Pa
Power source : 220-240V, 50/60Hz



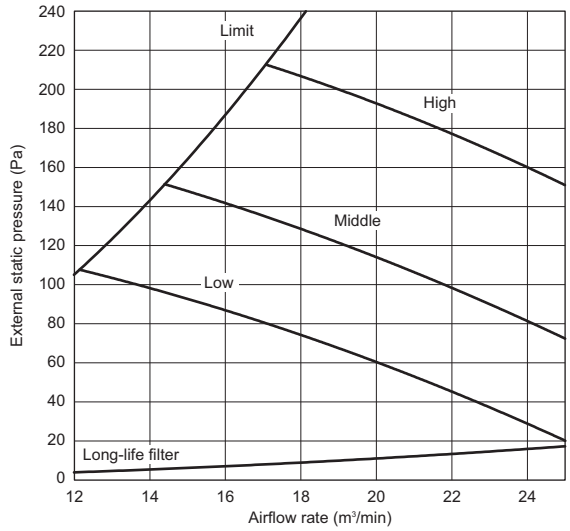
PEFY-WL63VMHS-A
External static pressure : 100Pa
Power source : 220-240V, 50/60Hz



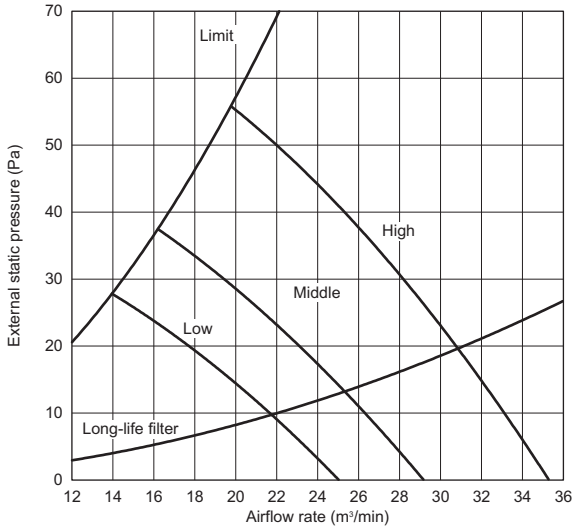
PEFY-WL63VMHS-A
External static pressure : 150Pa
Power source : 220-240V, 50/60Hz



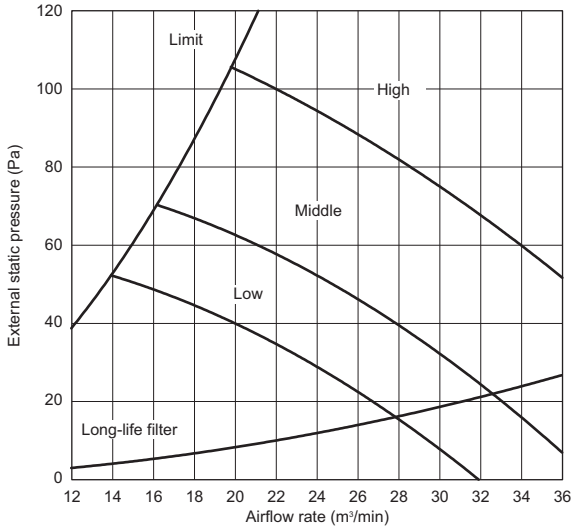
PEFY-WL63VMHS-A
External static pressure : 200Pa
Power source : 220-240V, 50/60Hz



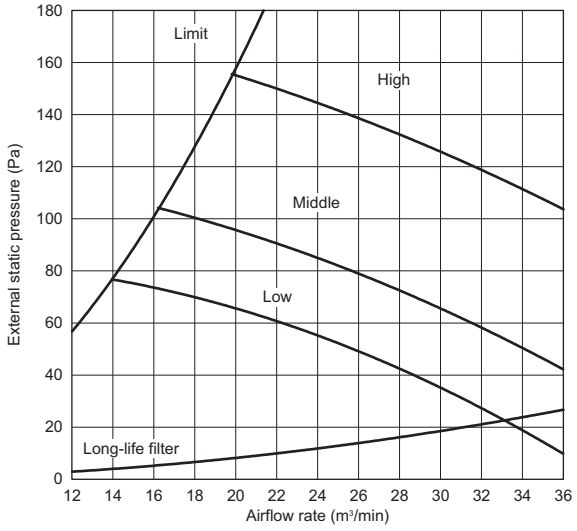
PEFY-WL71VMHS-A
External static pressure : 50Pa
Power source : 220-240V, 50/60Hz



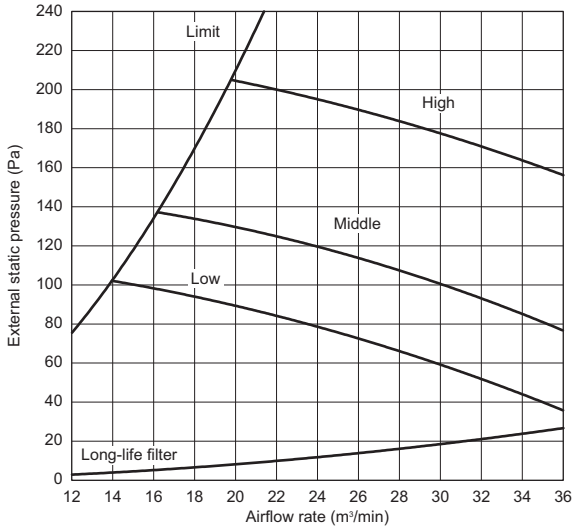
PEFY-WL71VMHS-A
External static pressure : 100Pa
Power source : 220-240V, 50/60Hz



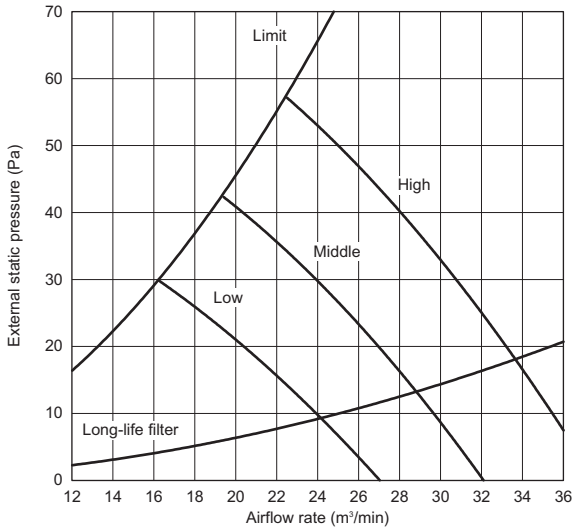
PEFY-WL71VMHS-A
External static pressure : 150Pa
Power source : 220-240V, 50/60Hz



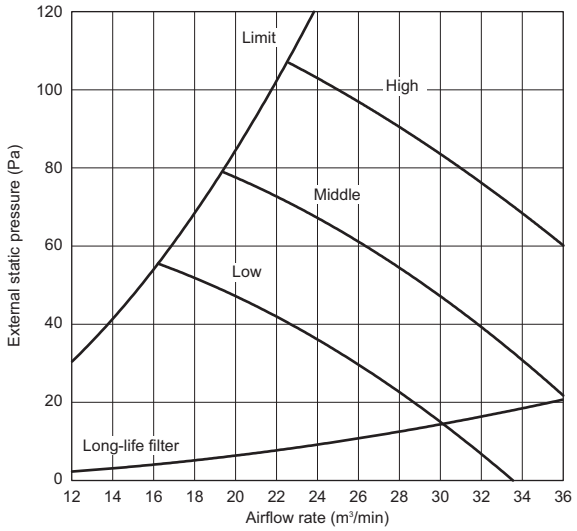
PEFY-WL71VMHS-A
External static pressure : 200Pa
Power source : 220-240V, 50/60Hz



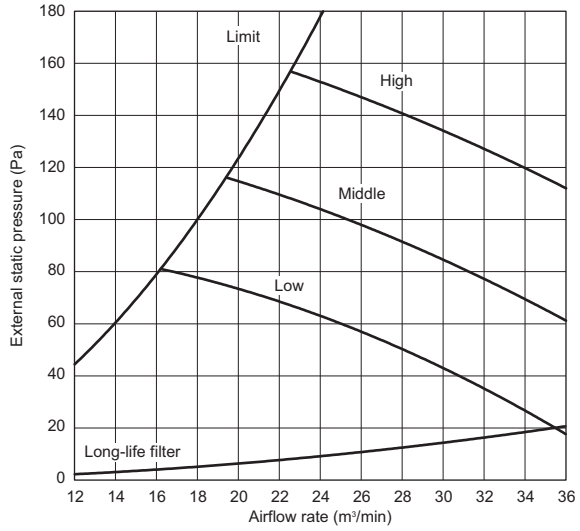
PEFY-WL80VMHS-A
External static pressure : 50Pa
Power source : 220-240V, 50/60Hz



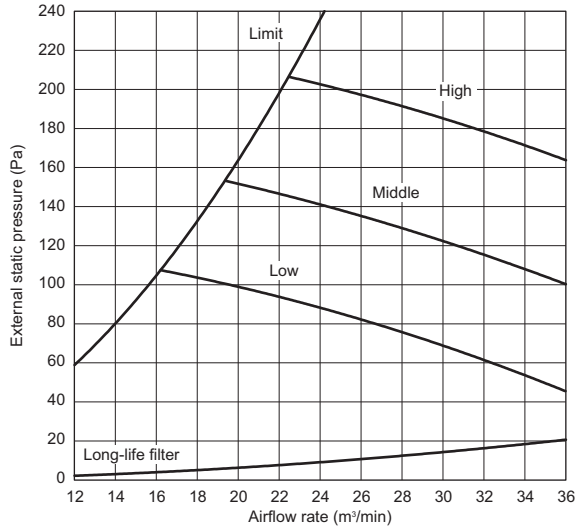
PEFY-WL80VMHS-A
External static pressure : 100Pa
Power source : 220-240V, 50/60Hz



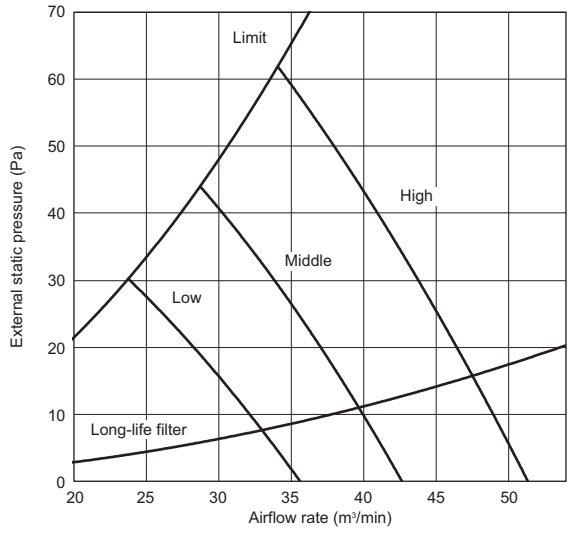
PEFY-WL80VMHS-A
External static pressure : 150Pa
Power source : 220-240V, 50/60Hz



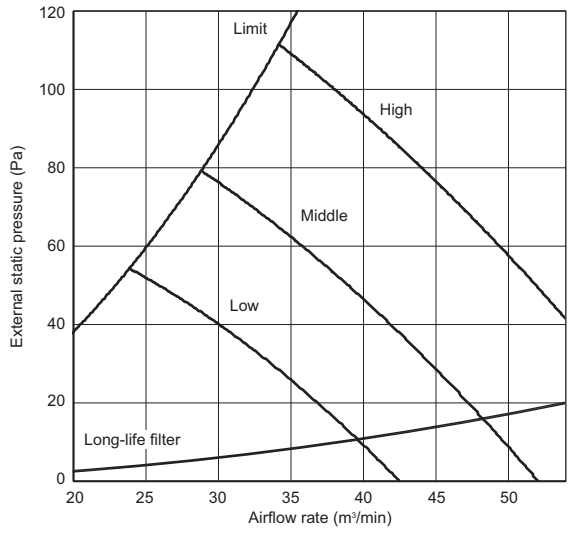
PEFY-WL80VMHS-A
External static pressure : 200Pa
Power source : 220-240V, 50/60Hz



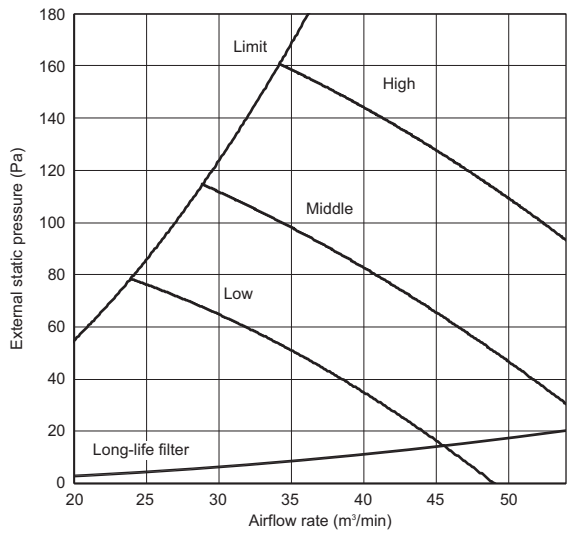
PEFY-WL100VMHS-A
External static pressure : 50Pa
Power source : 220-240V, 50/60Hz



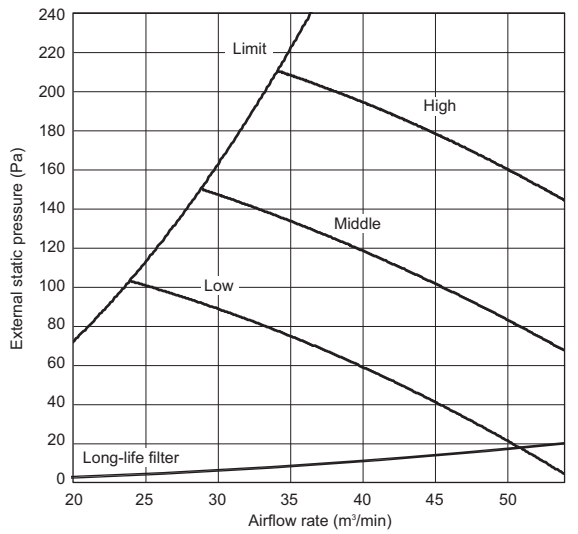
PEFY-WL100VMHS-A
External static pressure : 100Pa
Power source : 220-240V, 50/60Hz



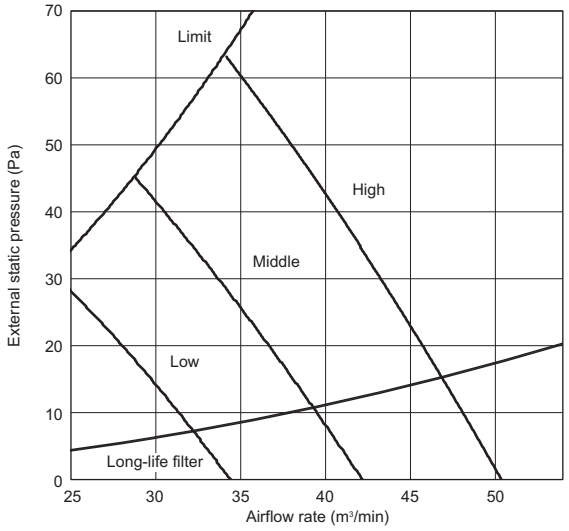
PEFY-WL100VMHS-A
External static pressure : 150Pa
Power source : 220-240V, 50/60Hz



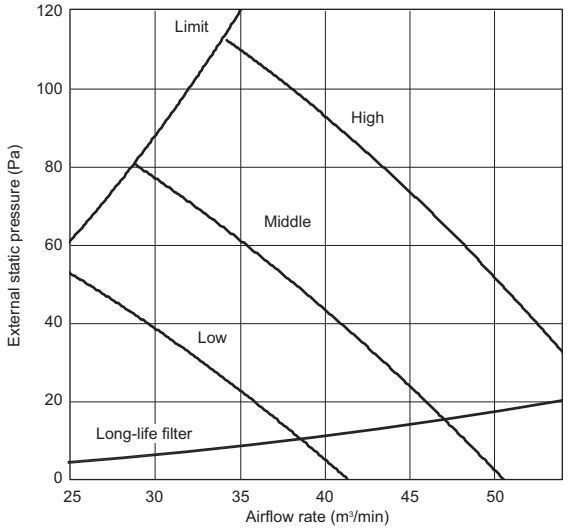
PEFY-WL100VMHS-A
External static pressure : 200Pa
Power source : 220-240V, 50/60Hz



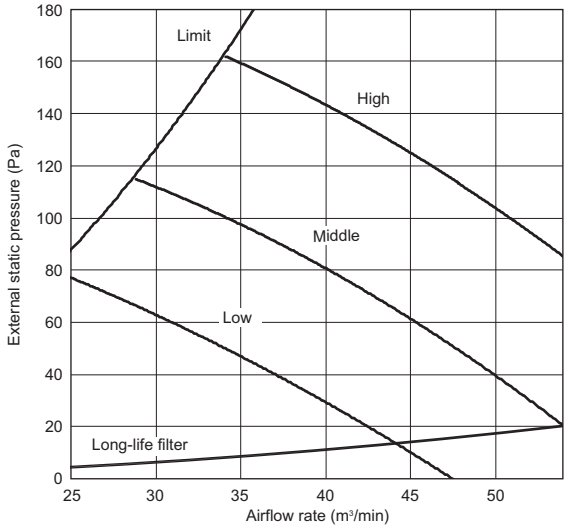
PEFY-WL125VMHS-A
External static pressure : 50Pa
Power source : 220-240V, 50/60Hz



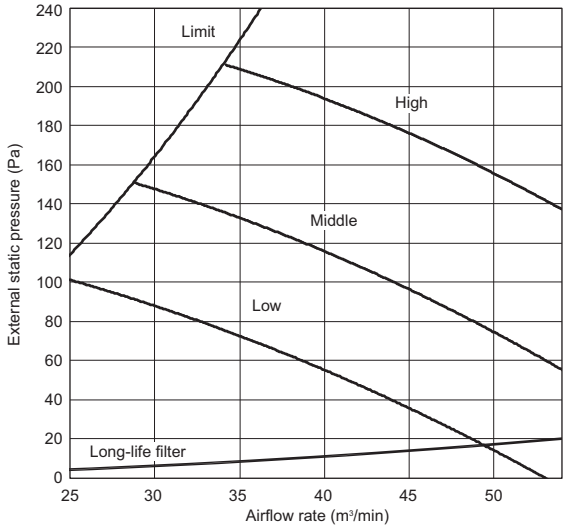
PEFY-WL125VMHS-A
External static pressure : 100Pa
Power source : 220-240V, 50/60Hz



PEFY-WL125VMHS-A
External static pressure : 150Pa
Power source : 220-240V, 50/60Hz



PEFY-WL125VMHS-A
External static pressure : 200Pa
Power source : 220-240V, 50/60Hz



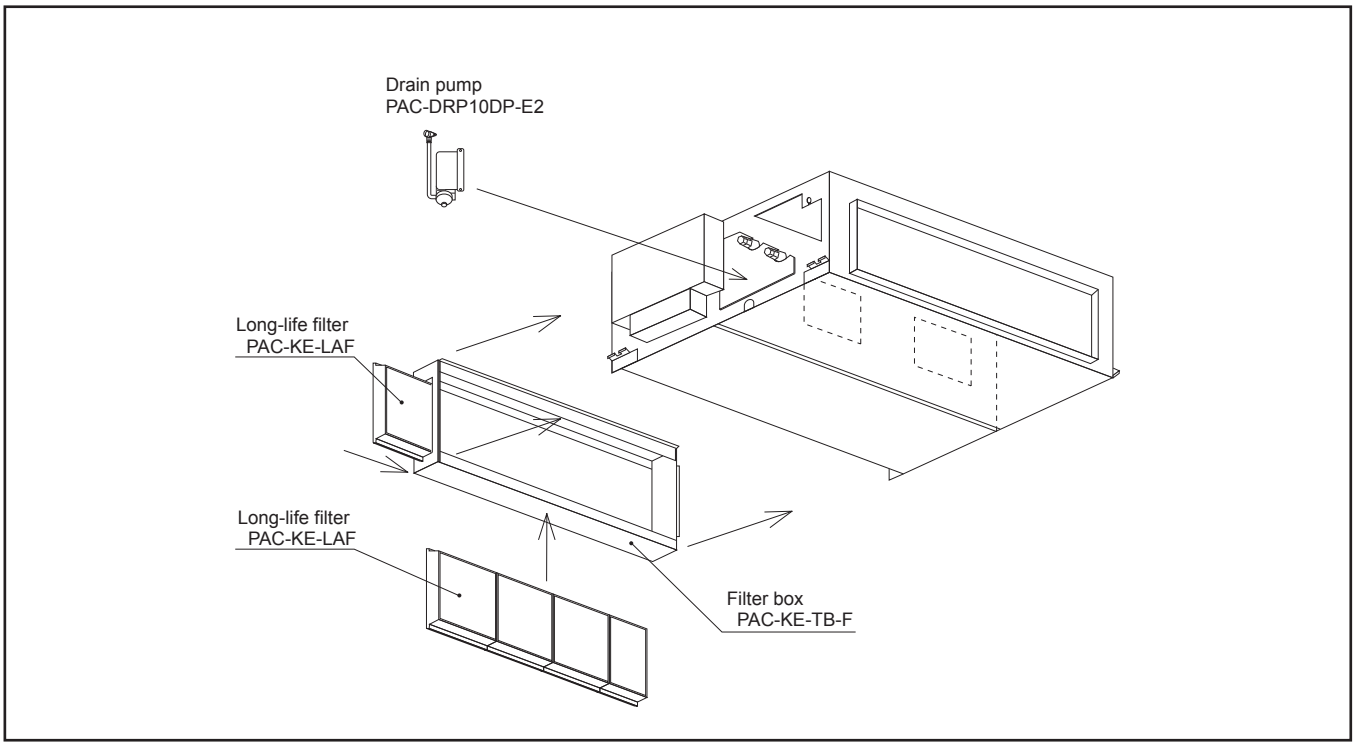
Symbols: MCA (Max.Circuit Amps =1.25xFLA), FLA (Full Load Amps)
IFM (Indoor Fan Motor), Output (Fan motor rated output)

PEFY-WL-VMHS-A	Power supply			IFM	
	Volts/Hz	Range +-10%	MCA(A) (50/60Hz)	Output (kW)	FLA(A) (50/60Hz)
PEFY-WL40VMHS-A	220-240V/50Hz 220-240V/60Hz	Max.: 264V Min.: 198V	1.78	0.121	1.42
PEFY-WL50VMHS-A			1.88	0.121	1.50
PEFY-WL63VMHS-A			2.00	0.121	1.60
PEFY-WL71VMHS-A			2.38	0.244	1.90
PEFY-WL80VMHS-A			2.45	0.244	1.96
PEFY-WL100VMHS-A			3.85	0.375	3.08
PEFY-WL125VMHS-A			4.00	0.375	3.20

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

Description	Model	Applicable capacity
Long life filter	PAC-KE86LAF	WL40, WL50, WL63
	PAC-KE88LAF	WL71, WL80
	PAC-KE89LAF	WL100, WL125
Filter box	PAC-KE63TB-F	WL40, WL50, WL63
	PAC-KE99TB-F	WL71, WL80
	PAC-KE140TB-F	WL100, WL125
Drain pump	PAC-DRP10DP-E2	WL40, WL50, WL63, WL71, WL80, WL100, WL125
Valve kit	PAC-SK35VK-E	WL40, WL50, WL63, WL71, WL80, WL100, WL125
Attachment plate	PAC-SK39AP-E	WL40, WL50, WL63, WL71, WL80, WL100, WL125
6m Lead wire	PAC-SK40LW-E	WL40, WL50, WL63, WL71, WL80, WL100, WL125

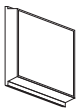
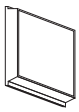
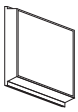
PEFY-WL-VMHS-A



8-2. Long-life filter

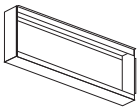
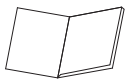
Life span: 2,500 hr (Dust concentration 0.15mg/m^3)
* The actual dust situation affects the filter life span, which should be considered at the applying site.
Material: Synthetic fiber unwoven cloth filter
Static pressure loss is referred to 6 “FAN CHARACTERISTICS CURVES”.
Long-life filter should be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

PAC-KE-LAF

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

Detailed installation information should be referred to its Installation Manual.

PAC-KE-TB-F

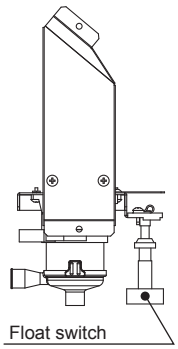
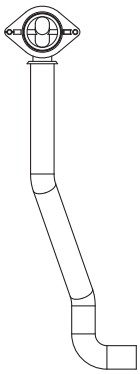
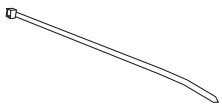
Item	① Screw	② Filter box	③ Installation manual	
Quantity	10/12*	1	1	
Shape				*PAC-KE250TB has 12 pieces of screw.

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.

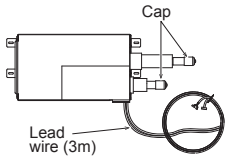
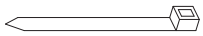
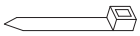
PAC-DRP10DP-E2

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.

8-4. Valve kit

Valve kit is necessary for using HVRF-Y system
In an HVRF-R2 system, if a valve kit is connected to any of the WL indoor units, all other indoor units must also have a valve.
The table below summarizes the connectability of different combinations of indoor units.

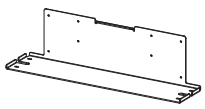
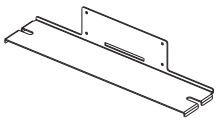
Item	VALVE KIT	Band (large)	Band (small)	Screw
Quantity	1	1	1	8
Shape				

Outdoor Unit	Indoor Unit			Connection
	A	B	C	
HVRF-R2 System	WLV	WLV	-	Connectable
	WLV	W	-	Connectable
	WLV	WL	-	Not connectable
	WLV	WP	-	Not connectable
	WLV	WL	W	Not connectable
	WLV	WL	WP	Not connectable
	WLV	W	WP	Not connectable
	WL	WL	-	Connectable
	WL	WP	-	Connectable
	WL	W	-	Not connectable
	WL	WP	W	Not connectable
	W	WP	-	Not connectable

WLV = (E)WL-Type (With an optional valve kit)
WL = (E)WL-Type (Without an optional valve kit)
WP = WP-Type (Without a built-in valve and not compatible with the optional valve kit)
W = W-Type (With a built-in valve)

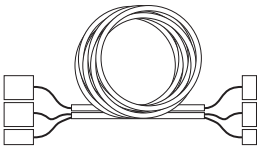
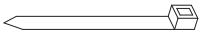
8-5. Attachment plate

When installing the valve kit on the ceiling plate or hanging it from the ceiling, the use of an attachment plate (PAC-SK39AP-E) is recommended.

Item	Attachment-1	Attachment-2
Quantity	1	1
Shape		

8-6. 6m Lead wire

The lead wire attached to the valve kit is 3 meters. If a longer lead wire is needed, use an optional part PAC-SK40LW-E (6m).
Note that the maximum allowable piping distance between the valve kit and the indoor unit is 5 meters.

Item	Lead wire (6m)	Band (large)
Quantity	1	
Shape		

⚠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/R32.

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