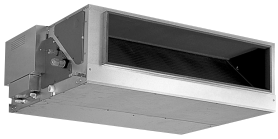
PEFY-P-VMS1(L)-E



PEFY-P-VMH-E

PEFY-P-VMS1(L)-E
PEFY-P-VMH-E

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Ceiling concealed	P15	P20	P25	P32	P40	P50	P63	P71	P80	P100	P125	P140	P200	P250
	0.6HP	0.8HP	1.0HP	1.3HP	1.6HP	2.0HP	2.5HP	2.8HP	3.2HP	4.0HP	5.0HP	5.6HP	8.0HP	10.0HP
PEFY-P-VMS1(L)-E	●	●	●	●	●	●	●							
PEFY-P-VMH-E									●	●	●	●		

1. SPECIFICATIONS

Model			PEFY-P15VMS1(L)-E	PEFY-P20VMS1(L)-E	PEFY-P25VMS1(L)-E	PEFY-P32VMS1(L)-E
Power source			220-240V (50/60Hz)			
Cooling capacity (Nominal)	※1	kW	1.7	2.2	2.8	3.6
	※1	kcal / h	1,450	1,900	2,400	3,100
	※1	Btu / h	5,800	7,500	9,600	12,300
	※2	kcal / h	1,500	2,000	2,500	3,150
	Power input	kW	0.05<0.03>	0.05<0.03>	0.06<0.04>	0.07<0.05>
	Current input	A	0.42<0.31>	0.47<0.36>	0.50<0.39>	0.50<0.39>
Heating capacity (Nominal)	※3	kW	1.9	2.5	3.2	4.0
	※3	kcal / h	1,600	2,200	2,800	3,400
	※3	Btu / h	6,500	8,500	10,900	13,600
	Power input	kW	0.03<0.03>	0.03<0.03>	0.04<0.04>	0.05<0.05>
	Current input	A	0.31<0.31>	0.36<0.36>	0.39<0.39>	0.39<0.39>
External finish			Galvanized			
External dimension H x W x D		mm	200 x 790 x 700	200 x 790 x 700	200 x 790 x 700	200 x 790 x 700
		in.	7-7/8" x 27-9/16" x 27-9/16"	7-7/8" x 27-9/16" x 27-9/16"	7-7/8" x 27-9/16" x 27-9/16"	7-7/8" x 27-9/16" x 27-9/16"
Net weight		kg (lb)	19(42)<18(40)>	19(42)<18(40)>	19(42)<18(40)>	20(44)<19(42)>
Heat exchanger			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
	External static press.	Pa	5 - 15 - 35 - 50 (220V)	5 - 15 - 35 - 50 (220V)	5 - 15 - 35 - 50 (220V)	5 - 15 - 35 - 50 (220V)
		mmH_2O	0.5 - 1.5 - 3.6 - 5.1	0.5 - 1.5 - 3.6 - 5.1	0.5 - 1.5 - 3.6 - 5.1	0.5 - 1.5 - 3.6 - 5.1
		Pa	5 - 15 - 35 - 50 (230,240V)	5 - 15 - 35 - 50 (230,240V)	5 - 15 - 35 - 50 (230,240V)	5 - 15 - 35 - 50 (230,240V)
		mmH_2O	0.5 - 1.5 - 3.6 - 5.1	0.5 - 1.5 - 3.6 - 5.1	0.5 - 1.5 - 3.6 - 5.1	0.5 - 1.5 - 3.6 - 5.1
	Motor type		DC brushless motor			
	Motor output	kW	0.096	0.096	0.096	0.096
	Driving mechanism		Direct-driven			
	Airflow rate (Low-Mid-High)	m^3 / min	5 - 6 - 7	5.5 - 6.5 - 8	5.5 - 7 - 9	6 - 8 - 10
		L / s	83 - 100 - 117	91 - 108 - 133	91 - 117 - 150	100 - 133 - 167
		cfm	176 - 212 - 247	194 - 229 - 282	194 - 247 - 317	212 - 282 - 353
Noise level (Low-Mid-High) (measured in anechoic room)		dB <A>	22 - 24 - 28(15Pa,220-240V)	23 - 25 - 29(15Pa,220-240V)	24 - 26 - 30(15Pa,220-240V)	24 - 27 - 32(15Pa,220-240V)
Insulation material			Polystyrene foam, Polyethylene foam, Urethane foam			
Air filter			PP Honeycomb fabric (washable)			
Protection device			Fuse			
Refrigerant control device			LEV			
Connectable outdoor unit			PURY-P-Y(S)HM-A, PUHY-P-Y(S)HM-A PUMY-P100~140VHMA, PUMY-P100~140YHMA	R410A, R407C, R22 CITY MULTI		
Diameter of refrigerant pipe	Liquid (R410A)	mm (in.)	ø6.35 (ø1/4") Brazed	ø6.35 (ø1/4") Brazed	ø6.35 (ø1/4") Brazed	ø6.35 (ø1/4") Brazed
	(R22, R407C)		ø6.35 (ø1/4") Brazed	ø6.35 (ø1/4") Brazed	ø6.35 (ø1/4") Brazed	ø6.35 (ø1/4") Brazed
	Gas (R410A)	mm (in.)	ø12.7 (ø1/2") Brazed	ø12.7 (ø1/2") Brazed	ø12.7 (ø1/2") Brazed	ø12.7 (ø1/2") Brazed
	(R22, R407C)		ø12.7 (ø1/2") Brazed	ø12.7 (ø1/2") Brazed	ø12.7 (ø1/2") Brazed	ø12.7 (ø1/2") Brazed
Field drain pipe size		mm (in.)	O.D. 32mm (1-1/4")			
Drawing	External		IU-KB94-G728<IU-KB94-G731>	IU-KB94-G728<IU-KB94-G731>	IU-KB94-G728<IU-KB94-G731>	IU-KB94-G728<IU-KB94-G731>
	Wiring		IU-KB94-G668	IU-KB94-G668	IU-KB94-G668	IU-KB94-G668
	Refrigerant cycle		-	-	-	-
Standard attachment	Document		Installation Manual, Instruction Book			
	Accessory		Drain hose (flexible joint)			
Remark	Optional parts					
	Drain pump		<PAC-KE07DM-E>	<PAC-KE07DM-E>	<PAC-KE07DM-E>	<PAC-KE07DM-E>
	Installation		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			

Note :

	※1 Nominal cooling conditions	※2 Nominal cooling conditions	※3 Nominal heating conditions
Indoor :	27˚CDB/19˚CWB (81˚FDB/66˚FWB)	27˚CDB/19.5˚CWB (81˚FDB/67˚FWB)	20˚CDB (68˚FDB)
Outdoor :	35˚CDB (95˚FDB)	35˚CDB (95˚FDB)	7˚CDB/6˚CWB (45˚FDB/43˚FWB)
Pipe length :	7.5 m (24-9/16 ft)	5 m (16-3/8 ft)	7.5 m (24-9/16 ft)
Level difference :	0 m (0 ft)	0 m (0 ft)	0 m (0 ft)

* Nominal conditions ※1, ※3 are subject to JIS B8615-1.
* Due to continuing improvement, above specification may be subject to change without notice.
* The external static pressure is set to 15 Pa at factory shipment.
* < > is in case of PEFY-P-VMS1L-E model.

Unit converter

kcal/h = kW x 860
Btu/h = kW x 3,412
cfm = m^3/min x 35.31
lb = kg / 0.4536

*Above specification data is subject to rounding variation.

Ref.: Spec_PEFY-P-VMS-E_1

1. SPECIFICATIONS

Model			PEFY-P40VMS1(L)-E	PEFY-P50VMS1(L)-E	PEFY-P63VMS1(L)-E
Power source			220-240V (50/60Hz)		
Cooling capacity (Nominal)	※1	kW	4.5	5.6	7.1
	※1	kcal / h	3,900	4,800	6,100
	※1	Btu / h	15,400	19,100	24,200
	※2	kcal / h	4,000	5,000	6,300
	Power input	kW	0.07<0.05>	0.09<0.07>	0.09<0.07>
	Current input	A	0.56<0.45>	0.67<0.56>	0.72<0.61>
Heating capacity (Nominal)	※3	kW	5.0	6.3	8.0
	※3	kcal / h	4,300	5,400	6,900
	※3	Btu / h	17,100	21,500	27,300
	Power input	kW	0.05<0.05>	0.07<0.07>	0.07<0.07>
	Current input	A	0.45<0.45>	0.56<0.56>	0.61<0.61>
External finish			Galvanized		
External dimension H x W x D		mm	200 x 990 x 700	200 x 990 x 700	200 x 1190 x 700
		in.	7-7/8" x 35-7/16" x 27-9/16"	7-7/8" x 35-7/16" x 27-9/16"	7-7/8" x 43-5/16" x 27-9/16"
Net weight		kg (lb)	24(53)<23(51)>	24(53)<23(51)>	28(62)<27(60)>
Heat exchanger			Cross fin (Aluminum fin and copper tube)		
FAN	Type x Quantity		Sirocco fan x 3	Sirocco fan x 3	Sirocco fan x 4
	External static press.	Pa	5 - 15 - 35 - 50 (220V)	5 - 15 - 35 - 50 (220V)	5 - 15 - 35 - 50 (220V)
		mmH_2O	0.5 - 1.5 - 3.6 - 5.1	0.5 - 1.5 - 3.6 - 5.1	0.5 - 1.5 - 3.6 - 5.1
		Pa	5 - 15 - 35 - 50 (230, 240V)	5 - 15 - 35 - 50 (230, 240V)	5 - 15 - 35 - 50 (230, 240V)
		mmH_2O	0.5 - 1.5 - 3.6 - 5.1	0.5 - 1.5 - 3.6 - 5.1	0.5 - 1.5 - 3.6 - 5.1
	Motor type		DC brushless motor		
	Motor output	kW	0.096	0.096	0.096
	Driving mechanism		Direct-driven		
	Airflow rate (Low-Mid-High)	m^3 / min	8 - 9.5 - 11	9.5 - 11 - 13	12 - 14 - 16.5
		L / s	133 - 158 - 183	158 - 183 - 217	200 - 233 - 275
		cfm	282 - 335 - 388	335 - 388 - 459	424 - 494 - 583
Noise level (Low-Mid-High) (measured in anechoic room)		dB <A>	28 - 30 - 33 (15Pa,220-240V)	30 - 32 - 35 (15Pa,220-240V)	30 - 33 - 36 (15Pa,220-240V)
Insulation material			Polystyrene foam, Polyethylene foam, Urethane foam		
Air filter			PP Honeycomb fabric (washable)		
Protection device			Fuse		
Refrigerant control device			LEV		
Connectable outdoor unit			R410A, R407C, R22 CITY MULTI		
Diameter of refrigerant pipe	Liquid (R410A)	mm (in.)	ø6.35 (ø1/4") Brazed	ø6.35 (ø1/4") Brazed	ø9.52 (ø3/8") Brazed
	(R22, R407C)	mm (in.)	ø6.35 (ø1/4") Brazed	ø9.52 (ø3/8") Brazed	ø9.52 (ø3/8") Brazed
	Gas (R410A)	mm (in.)	ø12.7 (ø1/2") Brazed	ø12.7 (ø1/2") Brazed	ø15.88 (ø5/8") Brazed
	(R22, R407C)	mm (in.)	ø12.7 (ø1/2") Brazed	ø15.88 (ø5/8") Brazed	ø15.88 (ø5/8") Brazed
Field drain pipe size		mm (in.)	O.D. 32mm (1-1/4")		
Drawing	External		IU-KB94-G728(IU-KB94-G731)	IU-KB94-G728(IU-KB94-G731)	IU-KB94-G728(IU-KB94-G731)
	Wiring		IU-KB94-G668	IU-KB94-G668	IU-KB94-G668
	Refrigerant cycle		-	-	-
Standard attachment	Document		Installation Manual, Instruction Book		
	Accessory		Drain hose (flexible joint)		
Remark	Optional parts				
	Drain pump		<PAC-KE07DM-E>	<PAC-KE07DM-E>	<PAC-KE07DM-E>
	Installation		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.		

Note :

	※1 Nominal cooling conditions	※2 Nominal cooling conditions	※3 Nominal heating conditions
Indoor :	27˚CDB/19˚CWB (81˚FDB/66˚FWB)	27˚CDB/19.5˚CWB (81˚FDB/67˚FWB)	20˚CDB (68˚FDB)
Outdoor :	35˚CDB (95˚FDB)	35˚CDB (95˚FDB)	7˚CDB/6˚CWB (45˚FDB/43˚FWB)
Pipe length :	7.5 m (24-9/16 ft)	5 m (16-3/8 ft)	7.5 m (24-9/16 ft)
Level difference :	0 m (0 ft)	0 m (0 ft)	0 m (0 ft)

* Nominal conditions ※1, ※3 are subject to JIS B8615-1.
* Due to continuing improvement, above specification may be subject to change without notice.
* The external static pressure is set to 15 Pa at factory shipment.
* < > is in case of PEFY-P-VMS1L-E model.

Unit converter

kcal/h = kW x 860
Btu/h = kW x 3,412
cfm = m^3/min x 35.31
lb = kg / 0.4536

*Above specification data is subject to rounding variation.

Ref.: Spec_PEFY-P-VMS-E_1

1. SPECIFICATIONS

Model			PEFY-P80VMH-E	PEFY-P100VMH-E	PEFY-P125VMH-E	PEFY-P140VMH-E
Power source			1-phase 220-240V 50Hz/60Hz			
Cooling capacity (Nominal)	✻1	kW	9.0	11.2	14.0	16.0
	✻1	kcal / h	7,700	9,600	12,000	13,800
	✻1	Btu / h	30,700	38,200	47,800	54,600
	✻2	kcal / h	8,000	10,000	12,500	14,000
	Power input	kW	0.32 / 0.40	0.48 / 0.58	0.48 / 0.58	0.48 / 0.59
	Current input	A	1.47 / 1.83	2.34 / 2.66	2.34 / 2.66	2.35 / 2.70
Heating capacity (Nominal)	✻3	kW	10.0	12.5	16.0	18.0
	✻3	kcal / h	8,600	10,800	13,800	15,500
	✻3	Btu / h	34,100	42,700	54,600	61,400
	Power input	kW	0.32 / 0.40	0.48 / 0.58	0.48 / 0.58	0.48 / 0.59
	Current input	A	1.47 / 1.83	2.34 / 2.66	2.34 / 2.66	2.35 / 2.70
External finish			Galvanized			
External dimension H x W x D		mm	380 x 1,000 x 900	380 x 1,200 x 900	380 x 1,200 x 900	380 x 1,200 x 900
		in.	15" x 39-3/8" x 35-7/16"	15" x 47-1/4" x 35-7/16"	15" x 47-1/4" x 35-7/16"	15" x 47-1/4" x 35-7/16"
Net weight		kg (lb)	50 (111)	70 (155)	70 (155)	70 (155)
Heat exchanger			Cross fin (Aluminum fin and copper tube)			
FAN	Type x Quantity		Sirocco fan x 1	Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2
	External static press.	Pa	50 - 100 - 200 (220V)	50 - 100 - 200 (220V)	50 - 100 - 200 (220V)	50 - 100 - 200 (220V)
		mmH_2O	5.1 - 10.2 - 20.4	5.1 - 10.2 - 20.4	5.1 - 10.2 - 20.4	5.1 - 10.2 - 20.4
		Pa	100 - 150 - 200 (230, 240V)	100 - 150 - 200 (230, 240V)	100 - 150 - 200 (230, 240V)	100 - 150 - 200 (230, 240V)
		mmH_2O	10.2 - 15.3 - 20.4	10.2 - 15.3 - 20.4	10.2 - 15.3 - 20.4	10.2 - 15.3 - 20.4
	Motor type		1-phase induction motor			
	Motor output	kW	0.180	0.260	0.260	0.260
	Driving mechanism		Direct-driven by motor			
	Airflow rate (Low-Mid-High)	m^3 / min	18.0 - 25.0	26.5 - 38.0	26.5 - 38.0	28.0 - 40.0
		L / s	300 - 417	442 - 633	442 - 633	467 - 667
		cfm	636 - 883	936 - 1,342	936 - 1,342	989 - 1,413
Noise level (Low-Mid-High)		dB <A>	35 - 41 (220V)	34 - 42 (220V)	34 - 42 (220V)	34 - 42 (220V)
(measured in anechoic room)		dB <A>	38 - 43 (230, 240V)	38 - 44 (230, 240V)	38 - 44 (230, 240V)	38 - 44 (230, 240V)
Insulation material			Polystyrene foam, Polyethylene foam, Urethane foam			
Air filter			Option : Synthetic fiber unwoven cloth filter (long life)			
Protection device			Fuse			
Refrigerant control device			LEV			
Connectable outdoor unit			R410A, R407C, R22 CITY MULTI			
Diameter of refrigerant pipe	Liquid (R410A)	mm (in.)	ø9.52 (ø3/8") Flare	ø9.52 (ø3/8") Flare	ø9.52 (ø3/8") Flare	ø9.52 (ø3/8") Flare
	(R22, R407C)		ø9.52 (ø3/8") Flare	ø9.52 (ø3/8") Flare	ø9.52 (ø3/8") Flare	ø9.52 (ø3/8") Flare
	Gas (R410A)	mm (in.)	ø15.88 (ø5/8") Flare	ø15.88 (ø5/8") Flare	ø15.88 (ø5/8") Flare	ø15.88 (ø5/8") Flare
	(R22, R407C)		ø15.88 (ø5/8") Flare	ø19.05 (ø3/4") Flare	ø19.05 (ø3/4") Flare	ø19.05 (ø3/4") Flare
Field drain pipe size		mm (in.)	O.D. 32mm (1-1/4")			
Drawing	External		IU-W27-5924			
	Wiring		IU-W65-3956			
	Refrigerant cycle		-			
Standard attachment	Document		Installation Manual, Instruction Book			
	Accessory		Drain hose I.D. 32mm (1-1/4") (flexible joint)			
Remark	Optional parts					
	Long life filter		PAC-KE88LAF	PAC-KE89LAF	PAC-KE89LAF	PAC-KE89LAF
	Filter box		PAC-KE80TB-F	PAC-KE140TB-F	PAC-KE140TB-F	PAC-KE140TB-F
	Drain pump		PAC-KE04DM-F	PAC-KE04DM-F	PAC-KE04DM-F	PAC-KE04DM-F
	Installation		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			

Note :

	✻1 Nominal cooling conditions	✻2 Nominal cooling conditions	✻3 Nominal heating conditions
Indoor :	27˚CDB/19˚CWB (81˚FDB/66˚FWB)	27˚CDB/19.5˚CWB (81˚FDB/67˚FWB)	20˚CDB (68˚FDB)
Outdoor :	35˚CDB (95˚FDB)	35˚CDB (95˚FDB)	7˚CDB/6˚CWB (45˚FDB/43˚FWB)
Pipe length :	7.5 m (24-9/16 ft)	5 m (16-3/8 ft)	7.5 m (24-9/16 ft)
Level difference :	0 m (0 ft)	0 m (0 ft)	0 m (0 ft)

* Nominal conditions ✻1, ✻3 are subject to JIS B8615-1.
* Due to continuing improvement, above specification may be subject to change without notice.

Unit converter

kcal/h = kW x 860
Btu/h = kW x 3,412
cfm = m^3/min x 35.31
lb = kg / 0.4536

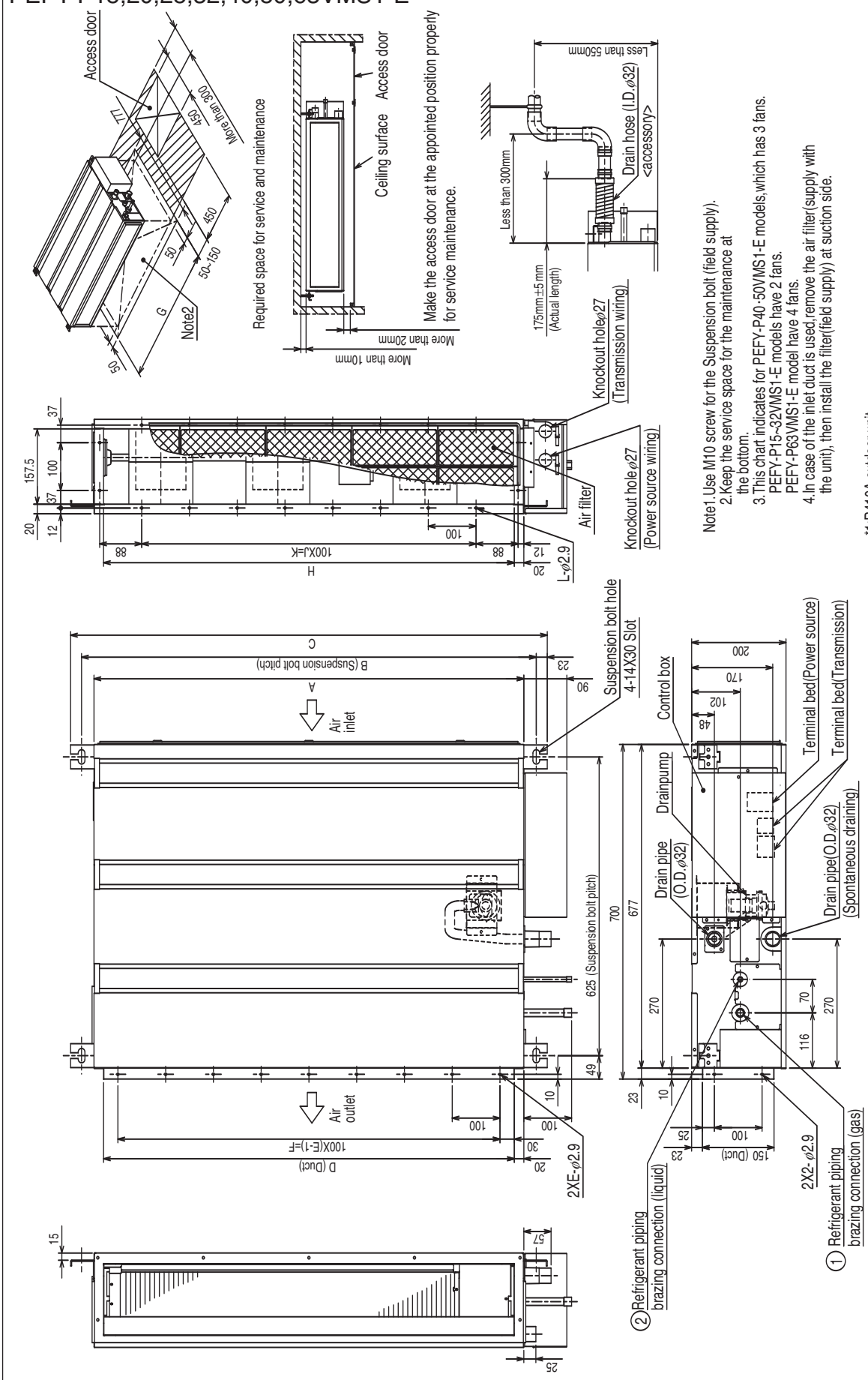
*Above specification data is subject to rounding variation.

Ref.: Spec_PEFY-P-VMH-E_2

2. EXTERNAL DIMENSIONS

PEFY-P15,20,25,32,40,50,63VMS1-E

Drw. : IU-KB94-G728
Unit : mm



Note1. Use M10 screw for the Suspension bolt (field supply).
2. Keep the service space for the maintenance at the bottom.
3. This chart indicates for PEFY-P40~50VMS1-E models,which has 3 fans. PEFY-P15~32VMS1-E models have 2 fans. PEFY-P63VMS1-E model have 4 fans.
4. In case of the inlet duct is used,remove the air filter(supply with the unit), then install the filter(field supply) at suction side.

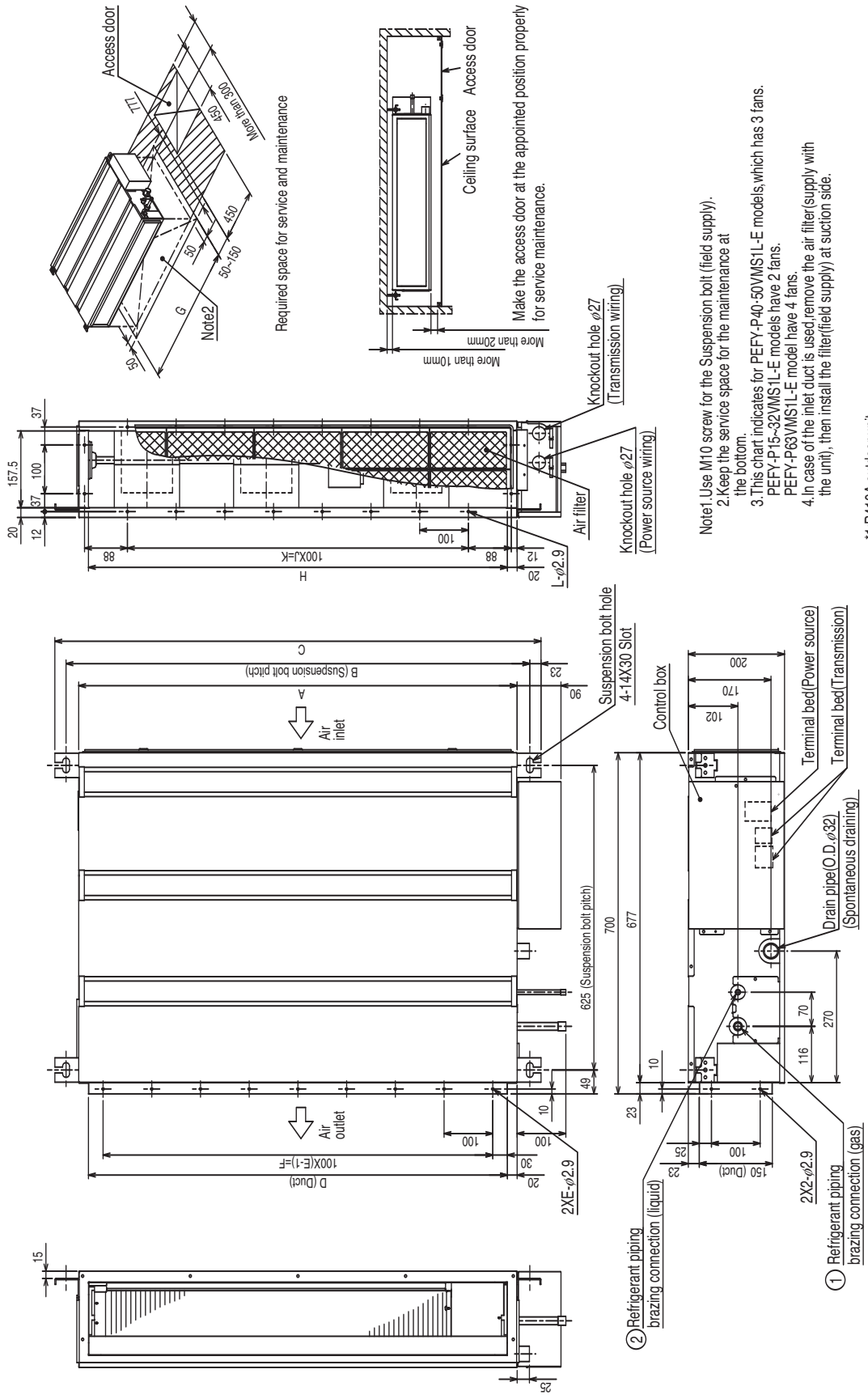
*1:R410A outdoor unit
*2:R407C,R22 outdoor unit

Model	A	B	C	D	E	F	G	H	J	K	L	Gas pipe	Liquid pipe
PEFY-P15,20,25,32VMS1-E	700	752	798	660	7	600	800	660	5	500	16	ø12.7	ø6.35
PEFY-P40VMS1-E	900	952	998	860	9	800	1000	860	7	700	20	*1 ø12.7 *2 ø15.88	*1 ø6.35 *2 ø9.52
PEFY-P50VMS1-E													
PEFY-P63VMS1-E	1100	1152	1198	1060	11	1000	1200	1060	9	900	24	ø15.88	ø9.52

2. EXTERNAL DIMENSIONS

PEFY-P15,20,25,32,40,50,63VMS1L-E

Drw. : IU-KB94-G731
Unit : mm



Note1. Use M10 screw for the Suspension bolt (field supply).
2. Keep the service space for the maintenance at the bottom.
3. This chart indicates for PEFY-P40·50VMS1L-E models,which has 3 fans. PEFY-P15~32VMS1L-E models have 2 fans. PEFY-P63VMS1L-E model have 4 fans.
4. In case of the inlet duct is used,remove the air filter(supply with the unit), then install the filter(field supply) at suction side.

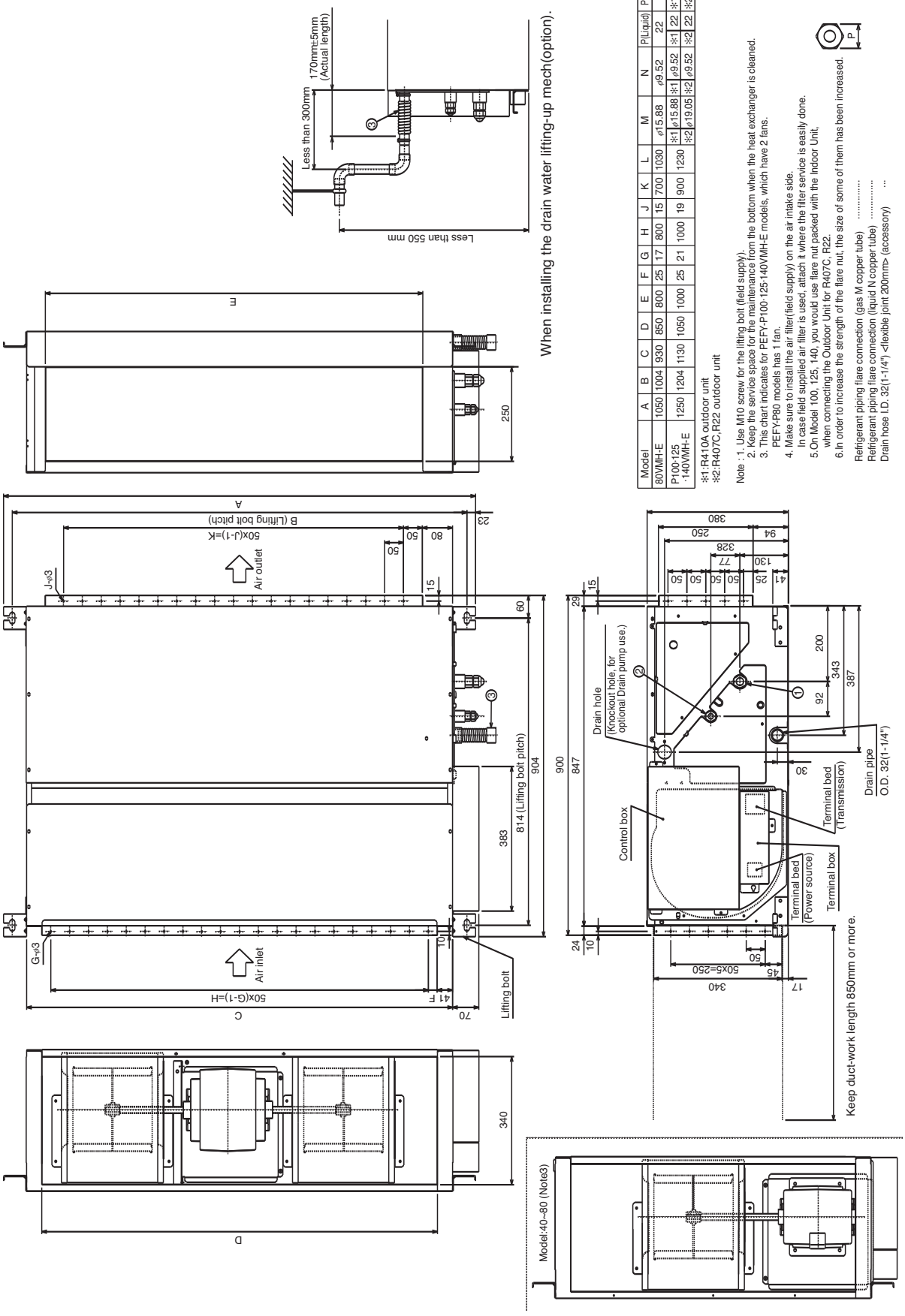
*1:R410A outdoor unit
*2:R407C,R22 outdoor unit

Model	A	B	C	D	E	F	G	H	J	K	L	Gas pipe		Liquid pipe	
PEFY-P15,20,25,32VMS1L-E	700	752	798	660	7	600	800	660	5	500	16	ø12.7		ø6.35	
PEFY-P40VMS1L-E	900	952	998	860	9	800	1000	860	7	700	20	*1 ø12.7	*2 ø15.88	*1 ø6.35	*2 ø9.52
PEFY-P50VMS1L-E															
PEFY-P63VMS1L-E	1100	1152	1198	1060	11	1000	1200	1060	9	900	24	ø15.88		ø9.52	

2. EXTERNAL DIMENSIONS

PEFY-P80,100,125,140VMH-E

Drw. : IU-W27-5924
Unit : mm



Model	A	B	C	D	E	F	G	H	J	K	L	M	N	P(Liquid)	P(Gas)
80VMH-E	1050	1004	930	850	800	25	17	800	15	700	1030	ø15.88	ø9.52	22	29
P100·125 ·140VMH-E	1250	1204	1130	1050	1000	25	21	1000	19	900	1230	※1 ø15.88 ※2 ø19.05	※1 ø9.52 ※2 ø9.52	※1 22 ※2 22	※1 36 ※2 36

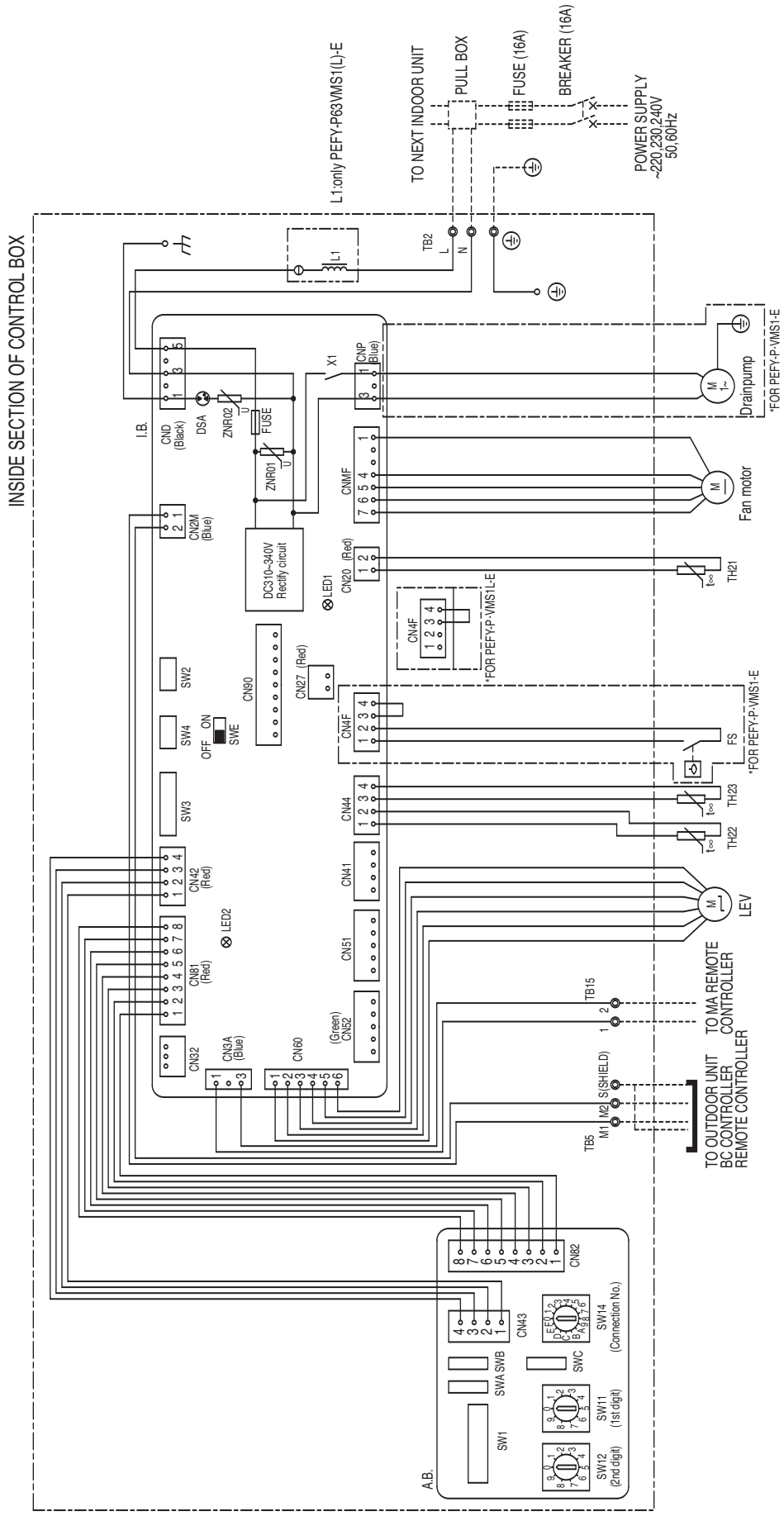
※1:R410A outdoor unit
※2:R407C,R22 outdoor unit

Note : 1. Use M10 screw for the lifting bolt (field supply).
2. Keep the service space for the maintenance from the bottom when the heat exchanger is cleaned.
3. This chart indicates for PEFY-P100·125·140VMH-E models, which have 2 fans. PEFY-P80 models has 1 fan.
4. Make sure to install the air filter(field supply) on the air intake side. In case field supplied air filter is used, attach it where the filter service is easily done.
5.On Model 100, 125, 140, you would use flare nut packed with the Indoor Unit, when connecting the Outdoor Unit for R407C, R22.
6.In order to increase the strength of the flare nut, the size of some of them has been increased.

Refrigerant piping flare connection (gas M copper tube) .....
Refrigerant piping flare connection (liquid N copper tube) .....
Drain hose I.D. 32(1-1/4") <flexible joint 200mm> (accessory) ...

PEFY-P15,20,25,32,40,50,63VMS1(L)-E

Drw. : IU-KB94-G668



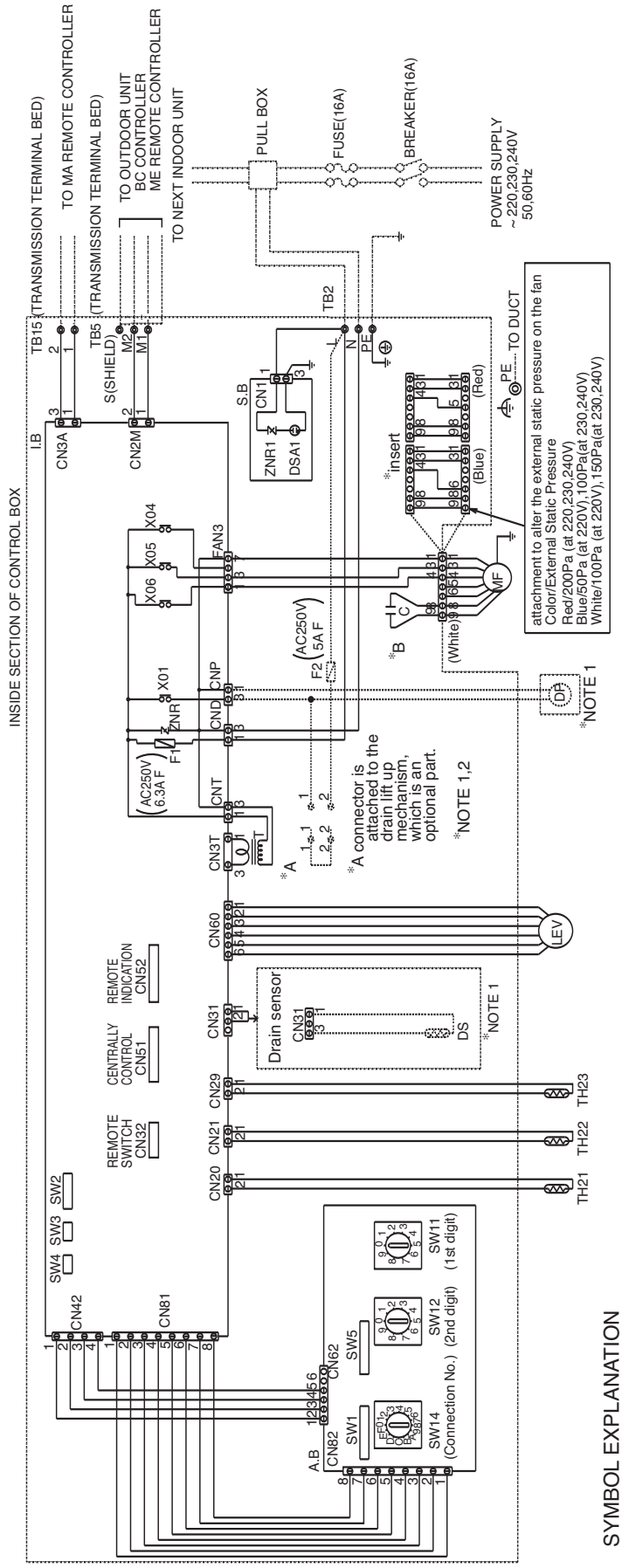
NOTE:1.The wirings to TB2,TB5,TB15 shown in dotted line are field work.
2.Mark ◎ indicates terminal bed, ⊖ connector.

SYMBOL EXPLANATION

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
I.B.	Indoor controller board	CN32	Connector (Remote switch)	SW4(I.B.)	Switch (for model selection)
A.B.	Address board	CN41	Connector (HA terminal-A)	SWE(I.B.)	Connector (emergency operation)
TB2	Power source terminal bed	CN51	Connector (Centrally control)	SW11(A.B.)	Switch (for mode selection)
TB5	Transmission terminal bed	CN52	Connector (Remote indication)	SW11(A.B.)	Switch (1st digit address set)
TB15	Transmission terminal bed	CN90	Connector (Wireless)	SW12(A.B.)	Switch (2nd digit address set)
FUSE	Fuse AC250V 6.3A	FS	Float switch	SW14(A.B.)	Switch (connection No.set)
ZNR01,02	Varistor	TH21	Thermistor (inlet air temp.detection)	SWA(A.B.)	Switch (for static pressure selection)
DSA	Arrester	TH22	Thermistor (piping temp.detection/liquid)	SWB(A.B.)	Switch (for model selection)
X1	Aux. relay	TH23	Thermistor (piping temp.detection/gas)	SWC(A.B.)	Switch (for static pressure selection)
L1	AC reactor(Power factor improvement)	SW2(I.B.)	Switch (for capacity code)		
CN27	Connector (Damper)	SW3(I.B.)	Switch (for mode selection)		

PEFY-P80,100,125,140VMH-E

Drw. : IU-W65-3956



NOTE : 1.The part of the broken line indicates the circuit for optional parts.
2.*A in the chart is the connector for a drain pump test run operation.
(The Drain Pump operates continuously if the connector is inserted and the power is supplied.)
After the test run, make sure to remove the *A connector.
3.The wirings to TB2, TB5 (shown in dotted line) are field work.
4.Mark ⓪ indicates terminal bed, ⊖ connector, ⊟ board insertion connector or fastening connector of control board.

*B Capacitor
MODELS 80 5.0μF
MODELS 100/125/140 7.0μF

SYMBOL EXPLANATION

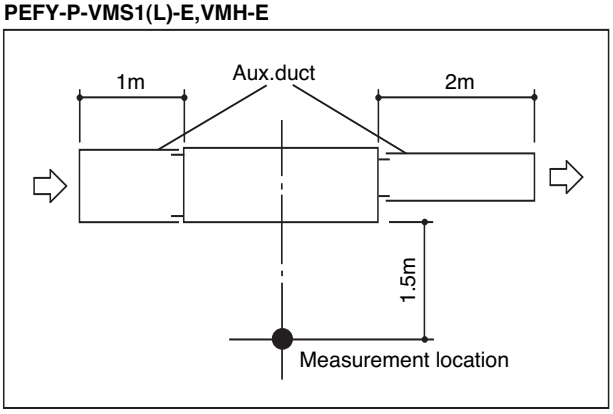
SYMBOL	NAME	SYMBOL	NAME
MF	Fan motor	S.B	Surge absorber board
C	*B Capacitor (for MF)	TH21	Thermistor (inlet temp.detection)
I.B	Indoor controller board	TH22	Thermistor (piping temp.detection/liquid)
A.B	Address board	TH23	Thermistor (piping temp.detection/gas)
TB2	Power source terminal bed	SW11(A.B)	Switch (1st digit address set)
TB5	Transmission terminal bed	SW12(A.B)	Switch (2nd digit address set)
TB15	Transmission terminal bed	SW14(A.B)	Switch (connection No.set)
F1	Fuse AC250V 6.3A F	SW1(A.B)	Switch(for mode selection)
<F2>	Fuse AC250V 5A F	SW2(I.B)	Switch(for capacity code)
T	Transformer	SW3(I.B)	Switch(for mode selection)
<DP>	Drain Pump	SW4(I.B)	Switch(for model selection)
LEV	Electronic linear expan. valve	SW5(A.B)	Switch(for voltage selection)
<DS>	Drain sensor	X04~X06	Aux.relay

inside < > is the optional parts

4. SOUND LEVELS

4-1. Sound levels

PEFY-P-VMS1(L)-E,VMH-E



* Measured in anechoic room.

Sound level at anechoic room : Low-Mid-High

		Sound level dB (A)			
		5Pa	15Pa	35Pa	50Pa
PEFY-P15VMS1(L)-E	220-240V	22-24-26	22-24-28	23-26-29	23-27-30
PEFY-P20VMS1(L)-E	220-240V	22-25-28	23-25-29	24-27-30	25-28-32
PEFY-P25VMS1(L)-E	220-240V	22-25-29	23-26-30	24-28-31	25-29-33
PEFY-P32VMS1(L)-E	220-240V	23-27-30	23-27-32	24-28-33	25-29-34
PEFY-P40VMS1(L)-E	220-240V	26-28-30	28-30-33	30-32-35	31-33-36
PEFY-P50VMS1(L)-E	220-240V	29-31-34	30-32-35	31-34-37	32-34-38
PEFY-P63VMS1(L)-E	220-240V	29-32-35	30-33-36	31-35-39	32-36-40

Sound level at anechoic room : Low-High

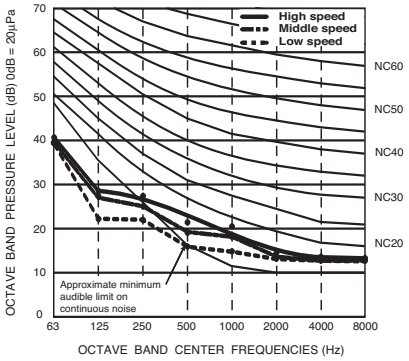
		Sound level dB (A)		
		Low*	Mid*	High*
PEFY-P80VMH-E	220V	32-39	35-41	37-43
	230, 240V	37-41	38-43	39-45
PEFY-P100,125VMH-E	220V	32-40	34-42	36-46
PEFY-P140VMHE	230, 240V	36-42	38-44	38-47

* External static pressure of PEFY-P80-140VMH-E
Low : 50Pa at 220V, 100Pa at 230, 240V
Mid : 100Pa at 220V, 150Pa at 230, 240V
High : 200Pa at 220V, 200Pa at 230, 240V

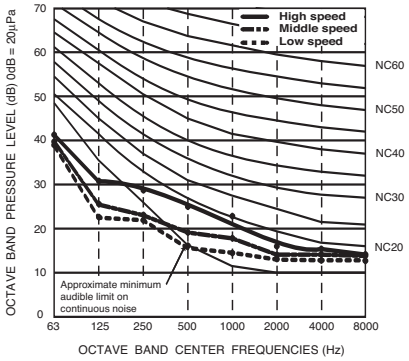
4. SOUND LEVELS

4-2. NC curves

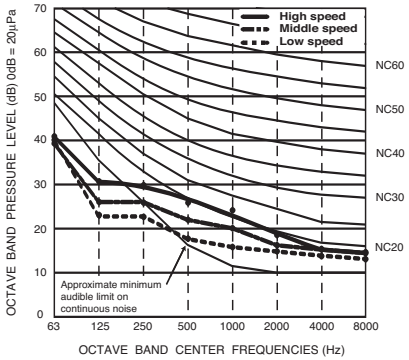
PEFY-P15VMS1(L)-E
External static pressure : 5Pa
Power source : 220,230,240V, 50/60Hz



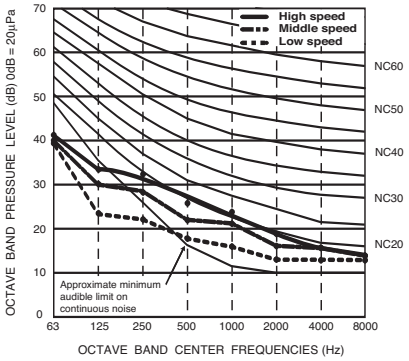
PEFY-P15VMS1(L)-E
External static pressure : 15Pa
Power source : 220,230,240V, 50/60Hz



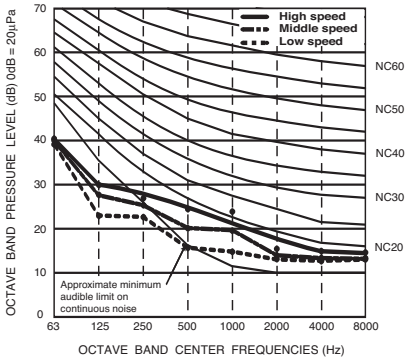
PEFY-P15VMS1(L)-E
External static pressure : 35Pa
Power source : 220,230,240V, 50/60HzHz



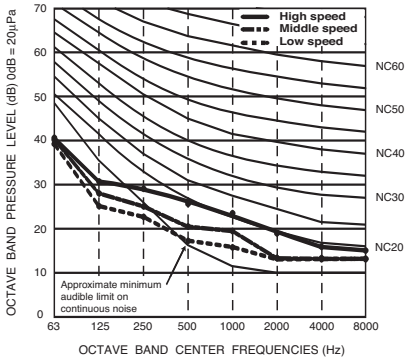
PEFY-P15VMS1(L)-E
External static pressure : 50Pa
Power source : 220,230,240V, 50/60Hz



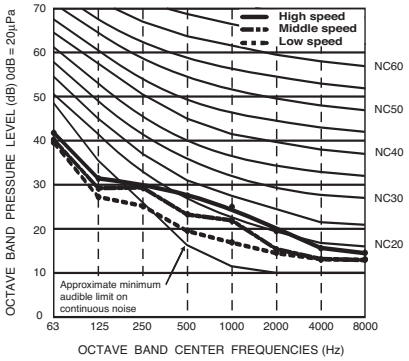
PEFY-P20VMS1(L)-E
External static pressure : 5Pa
Power source : 220,230,240V, 50/60Hz



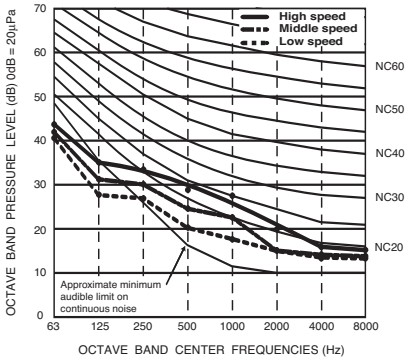
PEFY-P20VMS1(L)-E
External static pressure : 15Pa
Power source : 220,230,240V, 50/60Hz



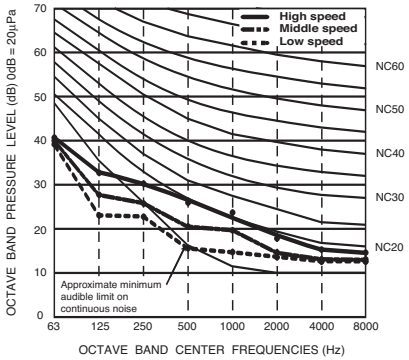
PEFY-P20VMS1(L)-E
External static pressure : 35Pa
Power source : 220,230,240V, 50/60Hz



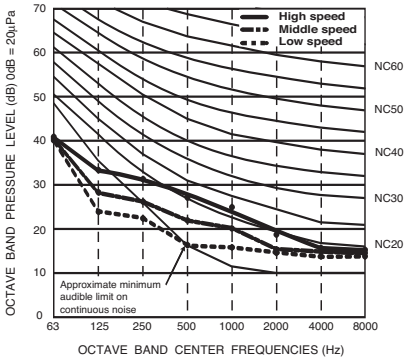
PEFY-P20VMS1(L)-E
External static pressure : 50Pa
Power source : 220,230,240V, 50/60Hz



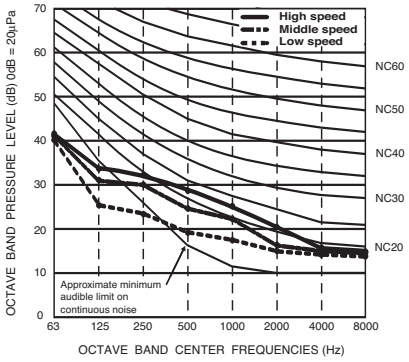
PEFY-P25VMS1(L)-E
External static pressure : 5Pa
Power source : 220,230,240V, 50/60Hz



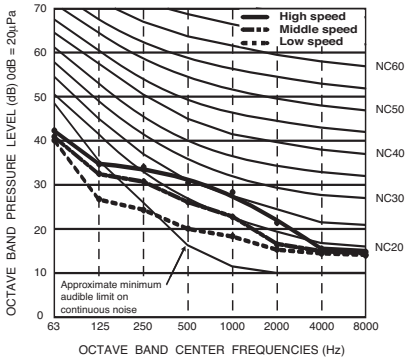
PEFY-P25VMS1(L)-E
External static pressure : 15Pa
Power source : 220,230,240V, 50/60Hz



PEFY-P25VMS1(L)-E
External static pressure : 35Pa
Power source : 220,230,240V, 50/60Hz



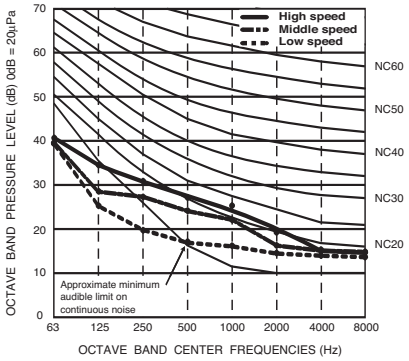
PEFY-P25VMS1(L)-E
External static pressure : 50Pa
Power source : 220,230,240V, 50/60Hz



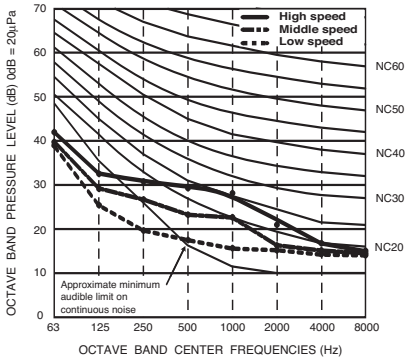
4. SOUND LEVELS

4-2. NC curves

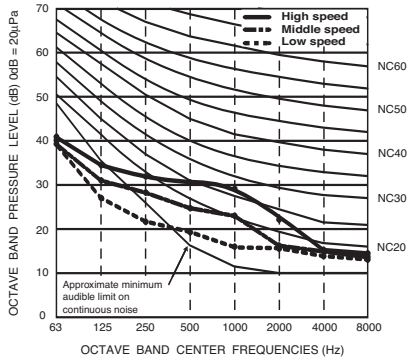
PEFY-P32VMS1(L)-E
External static pressure : 5Pa
Power source : 220,230,240V, 50/60Hz



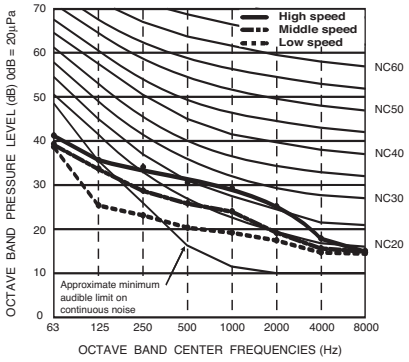
PEFY-P32VMS1(L)-E
External static pressure : 15Pa
Power source : 220,230,240V, 50/60Hz



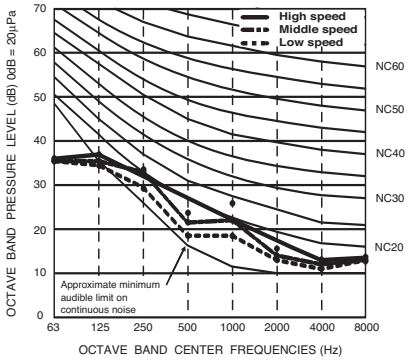
PEFY-P32VMS1(L)-E
External static pressure : 35Pa
Power source : 220,230,240V, 50/60HzHz



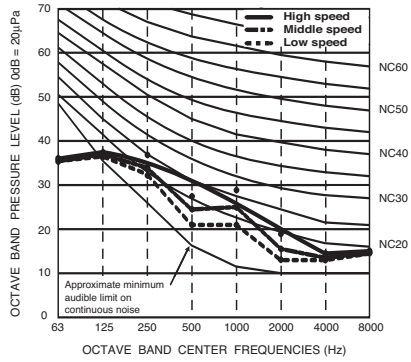
PEFY-P32VMS1(L)-E
External static pressure : 50Pa
Power source : 220,230,240V, 50/60Hz



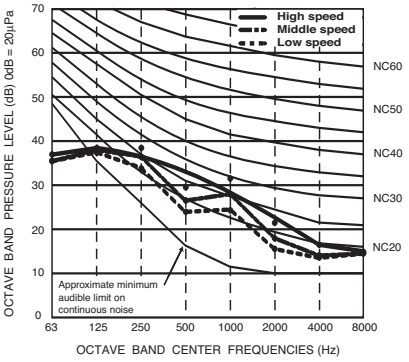
PEFY-P40VMS1(L)-E
External static pressure : 5Pa
Power source : 220,230,240V, 50/60Hz



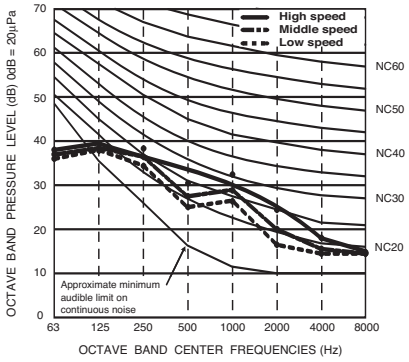
PEFY-P40VMS1(L)-E
External static pressure : 15Pa
Power source : 220,230,240V, 50/60Hz



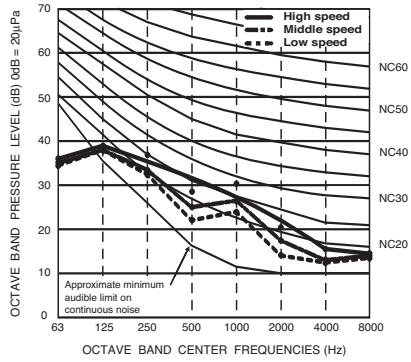
PEFY-P40VMS1(L)-E
External static pressure : 35Pa
Power source : 220,230,240V, 50/60Hz



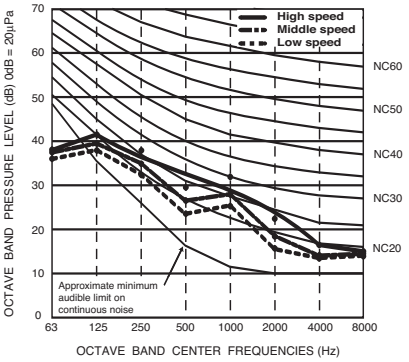
PEFY-P40VMS1(L)-E
External static pressure : 50Pa
Power source : 220,230,240V, 50/60Hz



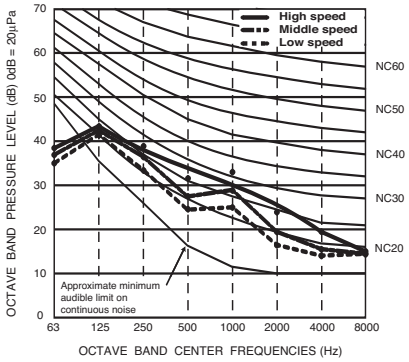
PEFY-P50VMS1(L)-E
External static pressure : 5Pa
Power source : 220,230,240V, 50/60Hz



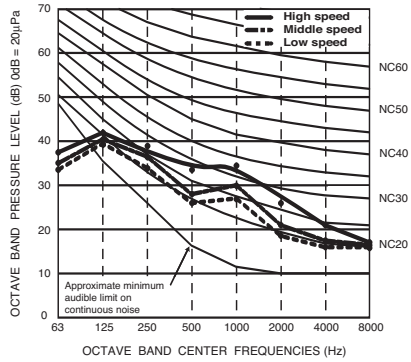
PEFY-P50VMS1(L)-E
External static pressure : 15Pa
Power source : 220,230,240V, 50/60Hz



PEFY-P50VMS1(L)-E
External static pressure : 35Pa
Power source : 220,230,240V, 50/60Hz



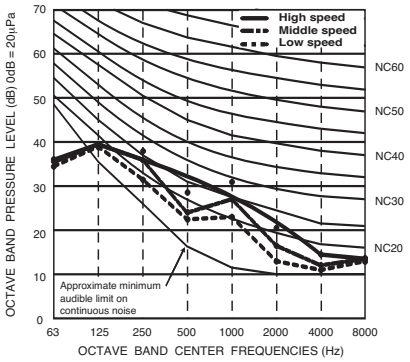
PEFY-P50VMS1(L)-E
External static pressure : 50Pa
Power source : 220,230,240V, 50/60Hz



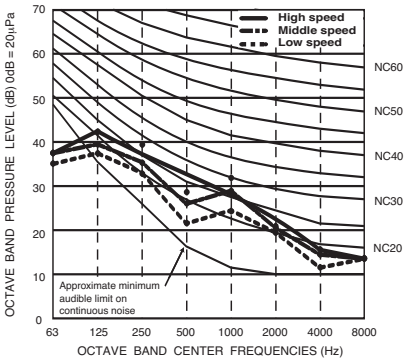
4. SOUND LEVELS

4-2. NC curves

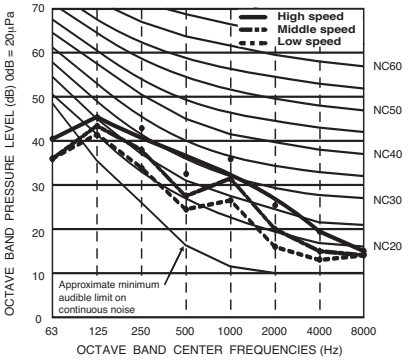
PEFY-P63VMS1(L)-E
External static pressure : 5Pa
Power source : 220,230,240V, 50/60Hz



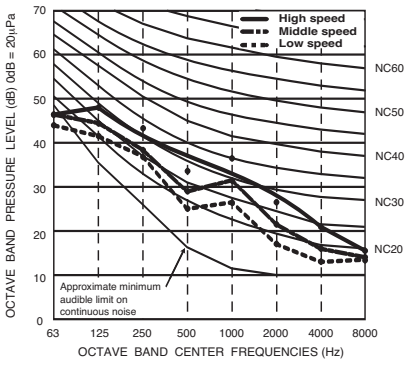
PEFY-P63VMS1(L)-E
External static pressure : 15Pa
Power source : 220,230,240V, 50/60Hz



PEFY-P63VMS1(L)-E
External static pressure : 35Pa
Power source : 220,230,240V, 50/60Hz



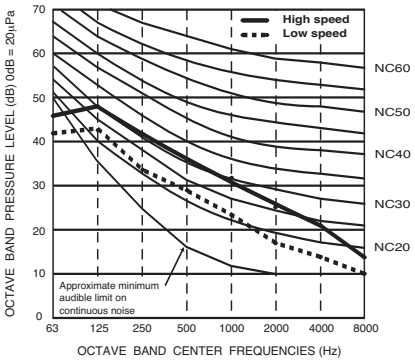
PEFY-P63VMS1(L)-E
External static pressure : 50Pa
Power source : 220,230,240V, 50/60Hz



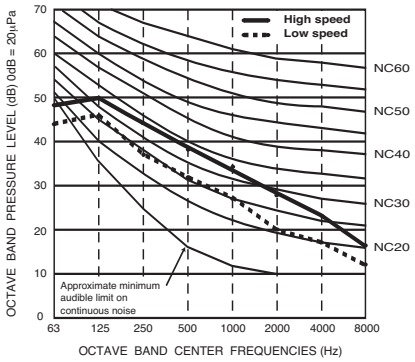
4. SOUND LEVELS

4-2. NC curves

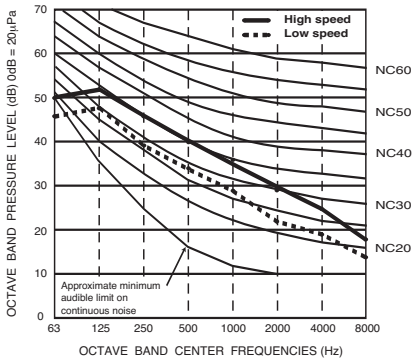
PEFY-P80VMH-E
External static pressure : 50Pa
Power source : 220V, 50/60Hz



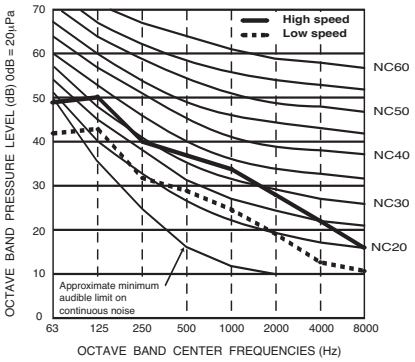
PEFY-P80VMH-E
External static pressure : 100Pa
Power source : 220V, 50/60Hz



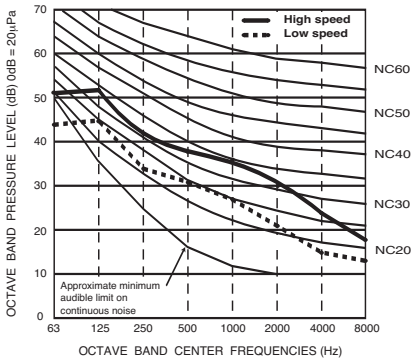
PEFY-P80VMH-E
External static pressure : 200Pa
Power source : 220V, 50/60Hz



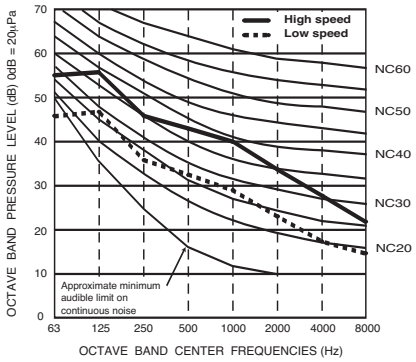
PEFY-P100,125,140VMH-E
External static pressure : 50Pa
Power source : 220V, 50/60Hz



PEFY-P100,125,140VMH-E
External static pressure : 100Pa
Power source : 220V, 50/60Hz



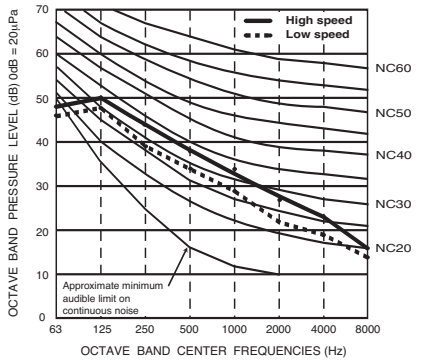
PEFY-P100,125,140VMH-E
External static pressure : 200Pa
Power source : 220V, 50/60Hz



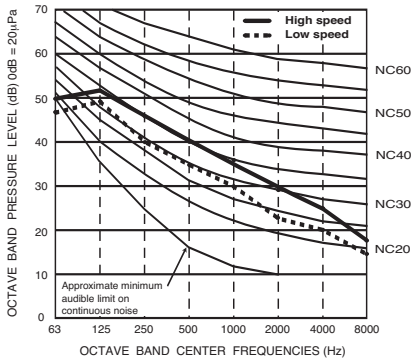
4. SOUND LEVELS

4-2. NC curves

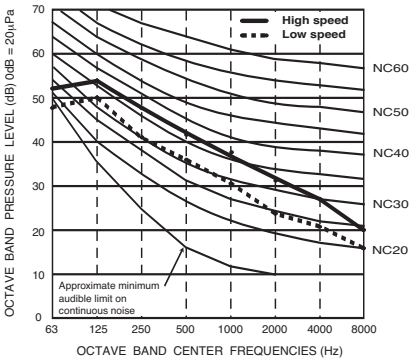
PEFY-P80VMH-E
External static pressure : 100Pa
Power source : 230,240V, 50/60Hz



PEFY-P80VMH-E
External static pressure : 150Pa
Power source : 230,240V, 50/60Hz



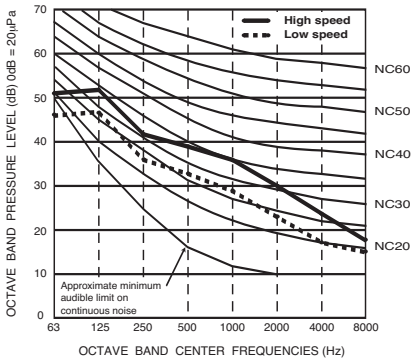
PEFY-P80VMH-E
External static pressure : 200Pa
Power source : 230,240V, 50/60Hz



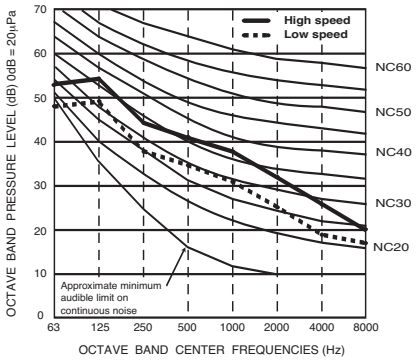
4. SOUND LEVELS

4-2. NC curves

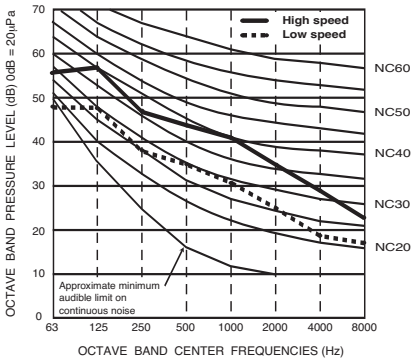
PEFY-P100,125,140VMH-E
External static pressure : 100Pa
Power source : 230,240V, 50/60Hz



PEFY-P100,125,140VMH-E
External static pressure : 150Pa
Power source : 230,240V, 50/60Hz



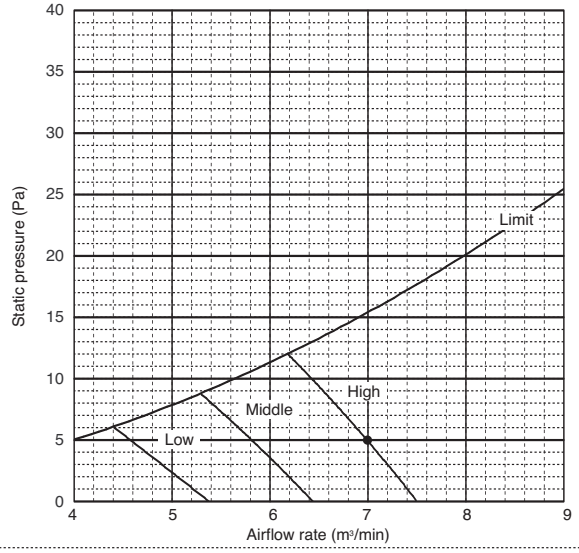
PEFY-P100,125,140VMH-E
External static pressure : 200Pa
Power source : 230,240V, 50/60Hz



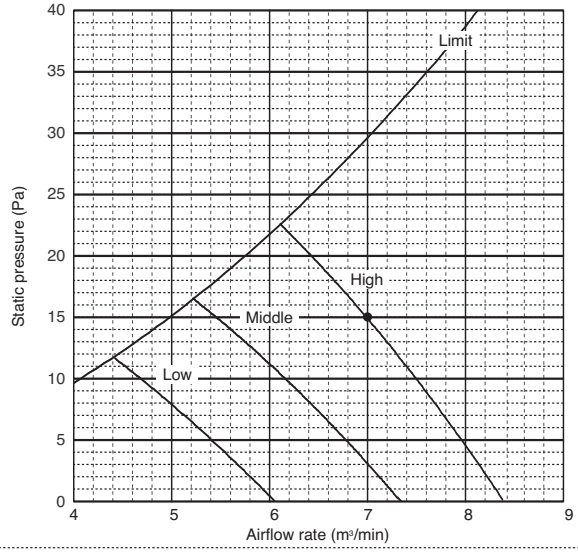
4. SOUND LEVELS

4-3. Fan characteristics curves

PEFY-P15VMS1(L)-E
External static pressure : 5Pa
Power source : 220,230,240V, 50/60Hz
Suction : Back inlet



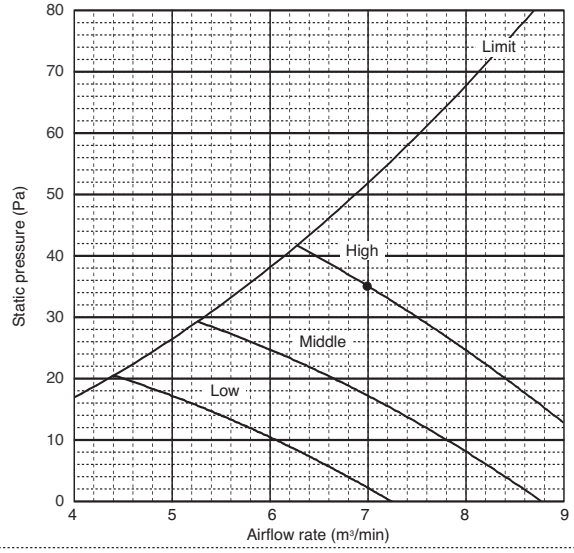
PEFY-P15VMS1(L)-E
External static pressure : 15Pa
Power source : 220,230,240V, 50/60Hz
Suction : Back inlet



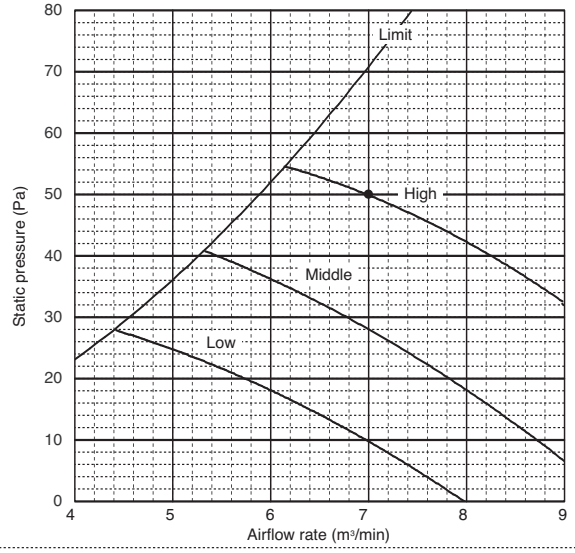
4. SOUND LEVELS

4-3. Fan characteristics curves

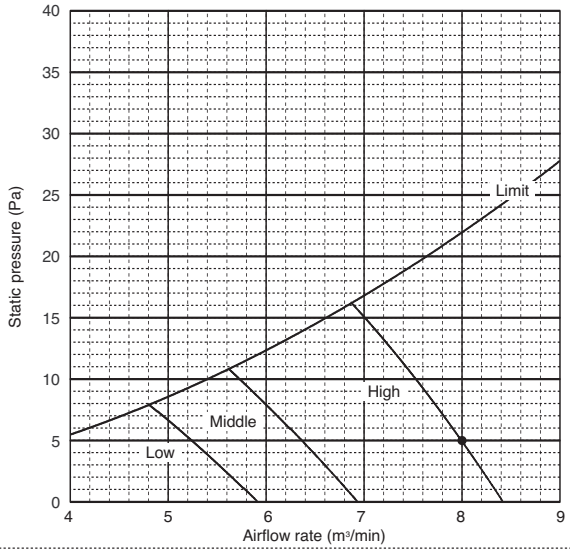
PEFY-P15VMS1(L)-E
External static pressure : 35Pa
Suction : Back inlet
Power source : 220,230,240V, 50/60Hz



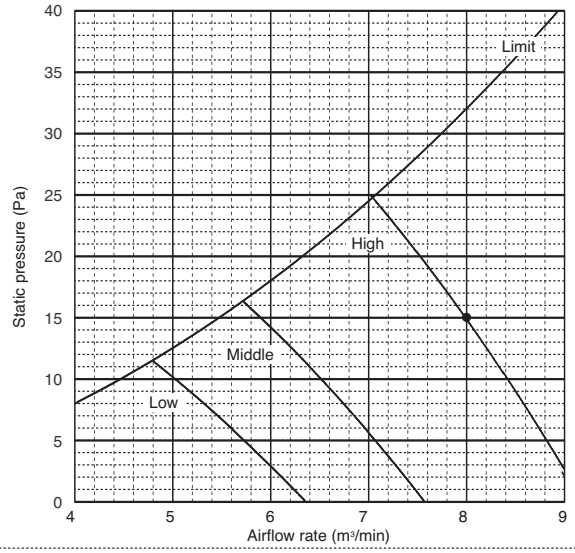
PEFY-P15VMS1(L)-E
External static pressure : 50Pa
Suction : Back inlet
Power source : 220,230,240V, 50/60Hz



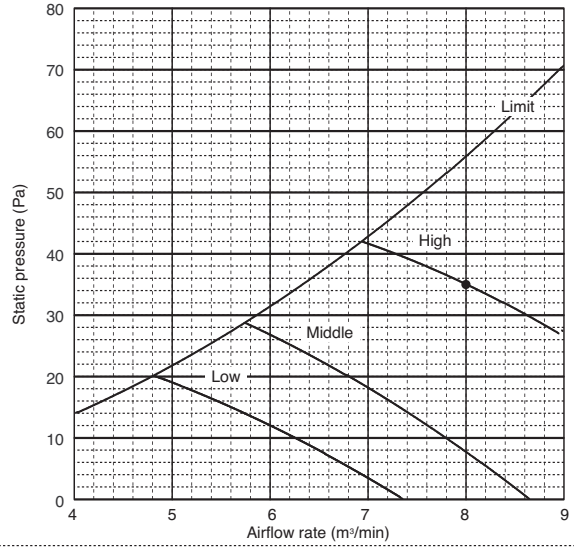
PEFY-P20VMS1(L)-E
External static pressure : 5Pa
Suction : Back inlet
Power source : 220,230,240V, 50/60Hz



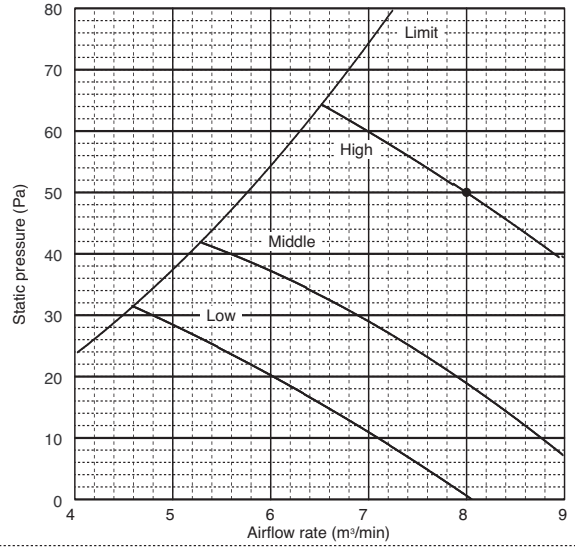
PEFY-P20VMS1(L)-E
External static pressure : 15Pa
Suction : Back inlet
Power source : 220,230,240V, 50/60Hz



PEFY-P20VMS1(L)-E
External static pressure : 35Pa
Suction : Back inlet
Power source : 220,230,240V, 50/60Hz



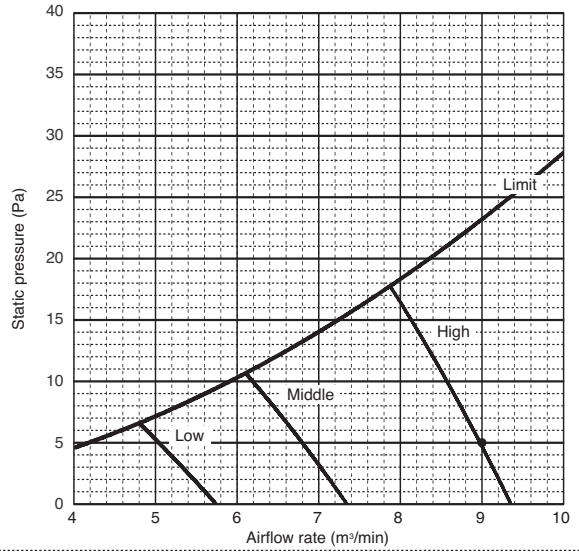
PEFY-P20VMS1(L)-E
External static pressure : 50Pa
Suction : Back inlet
Power source : 220,230,240V, 50/60Hz



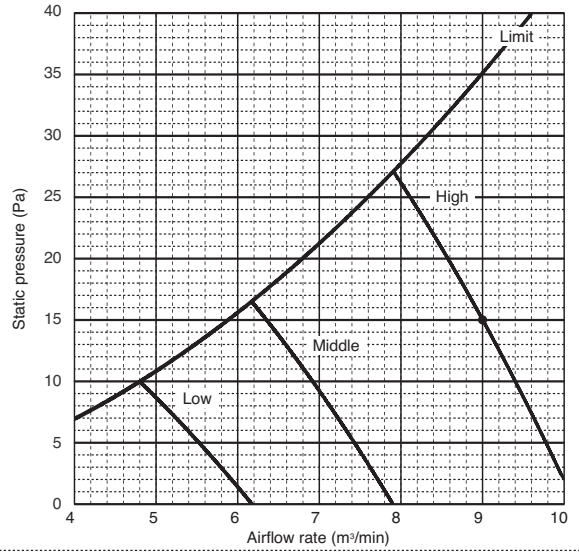
4. SOUND LEVELS

4-3. Fan characteristics curves

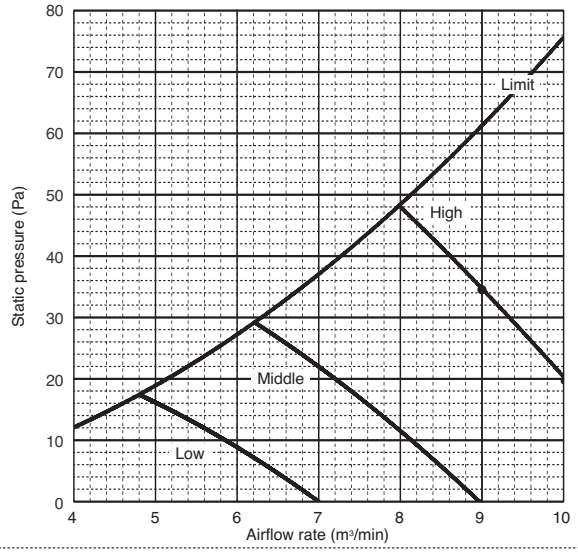
PEFY-P25VMS1(L)-E
External static pressure : 5Pa
Suction : Back inlet
Power source : 220,230,240V, 50/60Hz



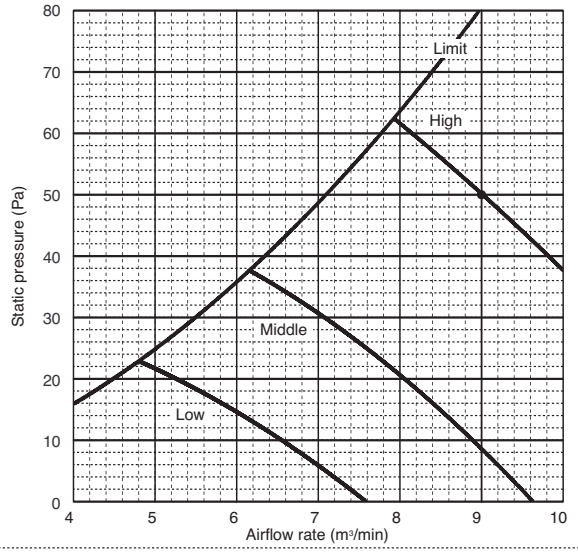
PEFY-P25VMS1(L)-E
External static pressure : 15Pa
Suction : Back inlet
Power source : 220,230,240V, 50/60Hz



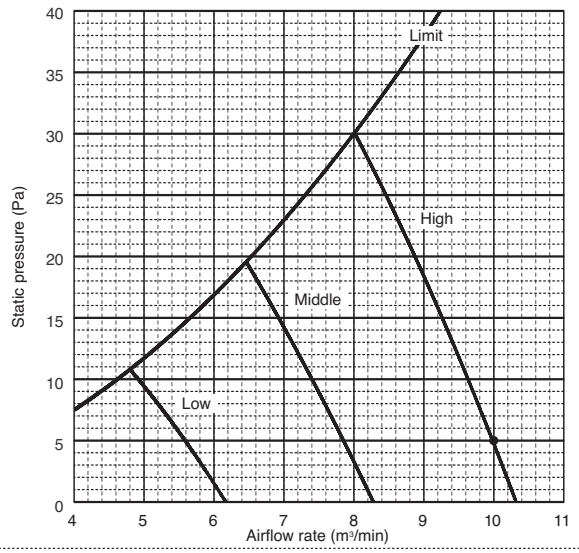
PEFY-P25VMS1(L)-E
External static pressure : 35Pa
Suction : Back inlet
Power source : 220,230,240V, 50/60Hz



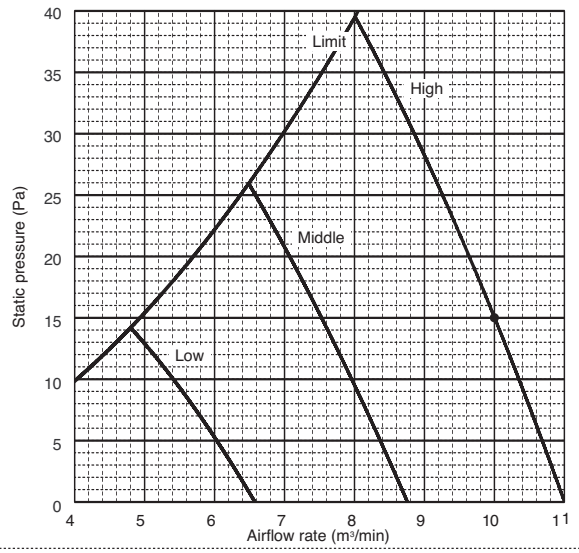
PEFY-P25VMS1(L)-E
External static pressure : 50Pa
Suction : Back inlet
Power source : 220,230,240V, 50/60Hz



PEFY-P32VMS1(L)-E
External static pressure : 5Pa
Suction : Back inlet
Power source : 220,230,240V, 50/60Hz



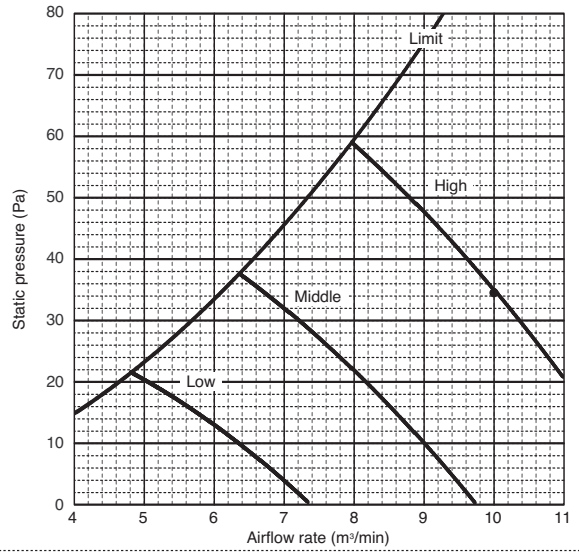
PEFY-P32VMS1(L)-E
External static pressure : 15Pa
Suction : Back inlet
Power source : 220,230,240V, 50/60Hz



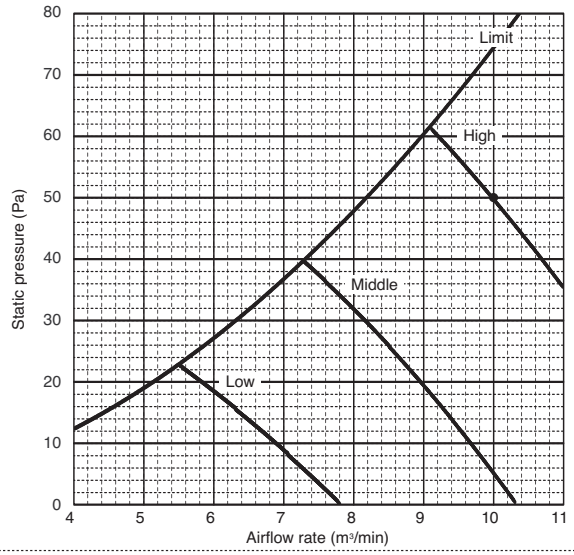
4. SOUND LEVELS

4-3. Fan characteristics curves

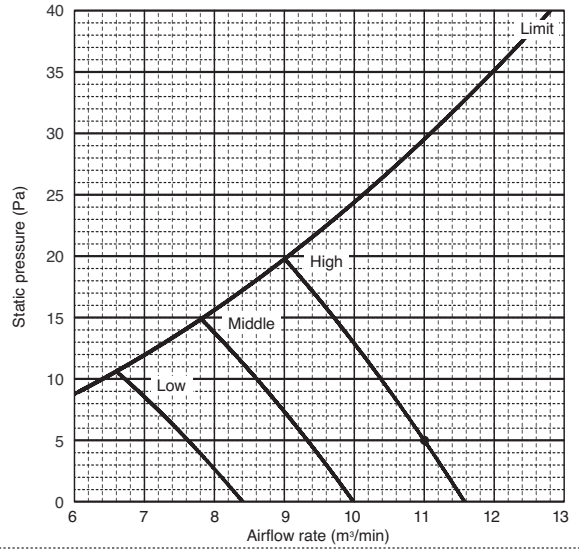
PEFY-P32VMS1(L)-E
External static pressure : 35Pa
Power source : 220,230,240V, 50/60Hz
Suction : Back inlet



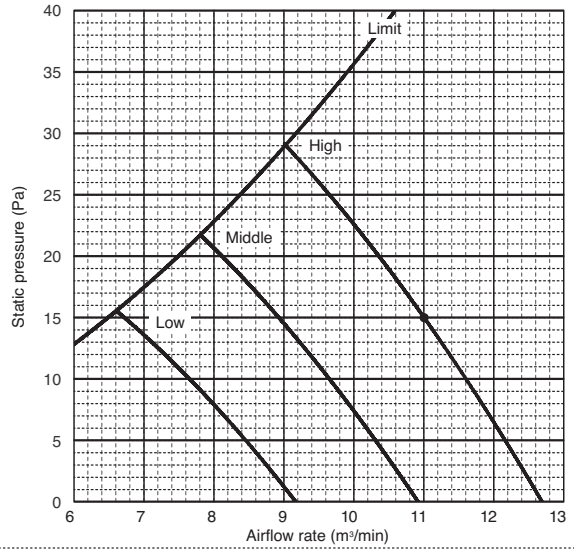
PEFY-P32VMS(L)-E
External static pressure : 50Pa
Power source : 220,230,240V, 50/60Hz
Suction : Back inlet



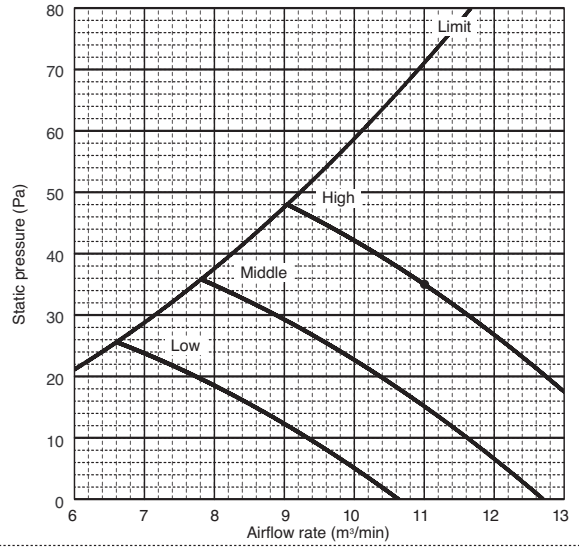
PEFY-P40VMS1(L)-E
External static pressure : 5Pa
Power source : 220,230,240V, 50/60Hz
Suction : Back inlet



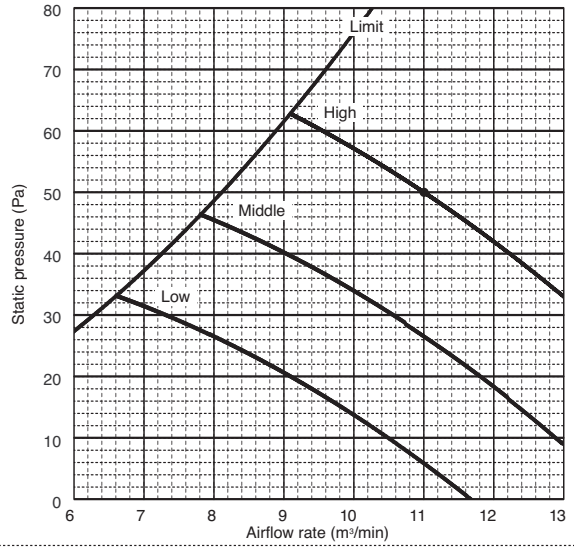
PEFY-P40VMS1(L)-E
External static pressure : 15Pa
Power source : 220,230,240V, 50/60Hz
Suction : Back inlet



PEFY-P40VMS1(L)-E
External static pressure : 35Pa
Power source : 220,230,240V, 50/60Hz
Suction : Back inlet



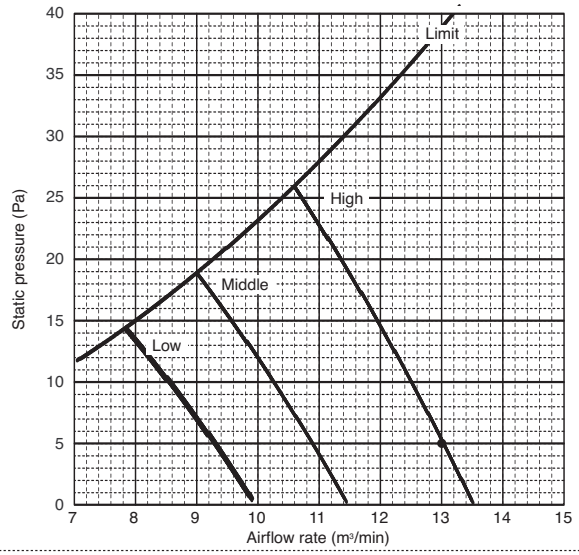
PEFY-P40VMS1(L)-E
External static pressure : 50Pa
Power source : 220,230,240V, 50/60Hz
Suction : Back inlet



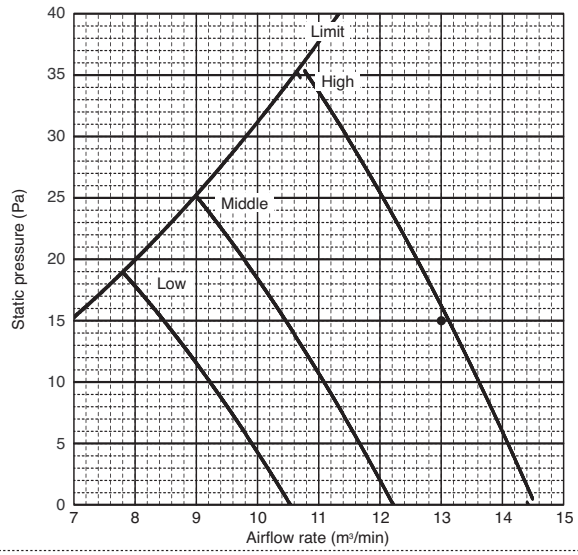
4. SOUND LEVELS

4-3. Fan characteristics curves

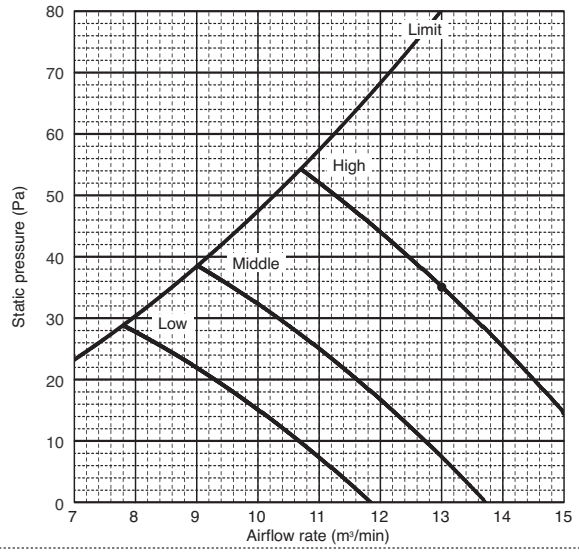
PEFY-P50VMS1(L)-E
External static pressure : 5Pa
Power source : 220,230,240V, 50/60Hz
Suction : Back inlet



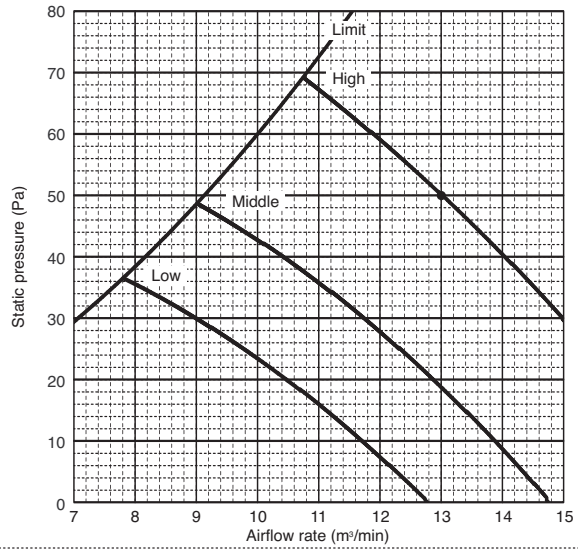
PEFY-P50VMS1(L)-E
External static pressure : 15Pa
Power source : 220,230,240V, 50/60Hz
Suction : Back inlet



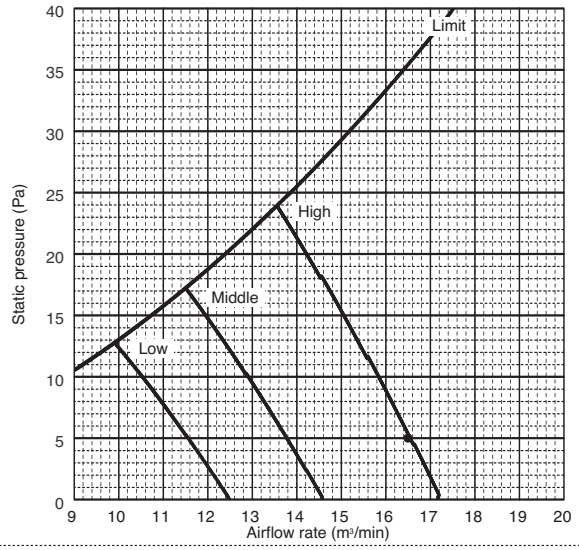
PEFY-P50VMS1(L)-E
External static pressure : 35Pa
Power source : 220,230,240V, 50/60Hz
Suction : Back inlet



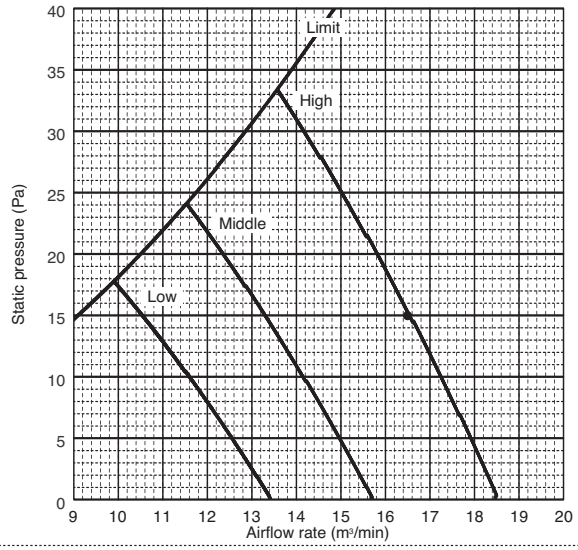
PEFY-P50VMS1(L)-E
External static pressure : 50Pa
Power source : 220,230,240V, 50/60Hz
Suction : Back inlet



PEFY-P63VMS1(L)-E
External static pressure : 5Pa
Power source : 220,230,240V, 50/60Hz
Suction : Back inlet



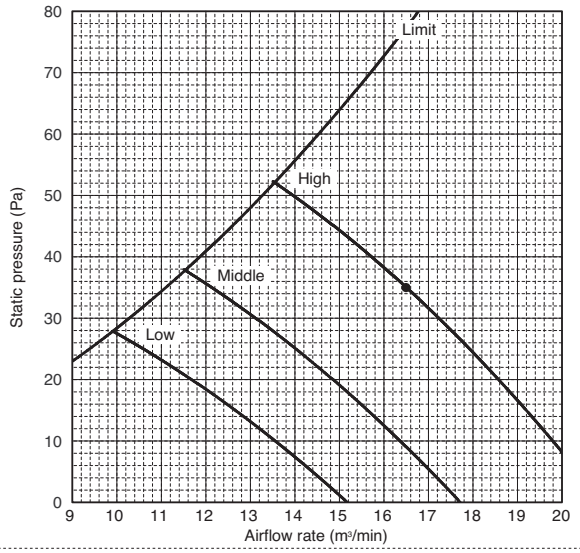
PEFY-P63VMS1(L)-E
External static pressure : 15Pa
Power source : 220,230,240V, 50/60Hz
Suction : Back inlet



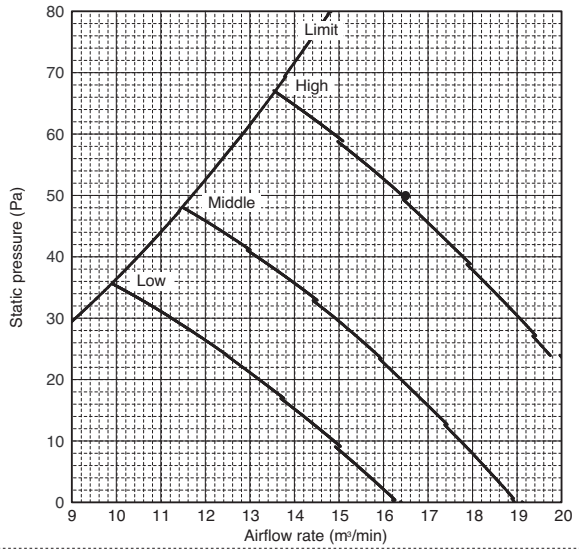
4. SOUND LEVELS

4-3. Fan characteristics curves

PEFY-P63VMS1(L)-E
External static pressure : 35Pa
Power source : 220,230,240V, 50/60Hz
Suction : Back inlet



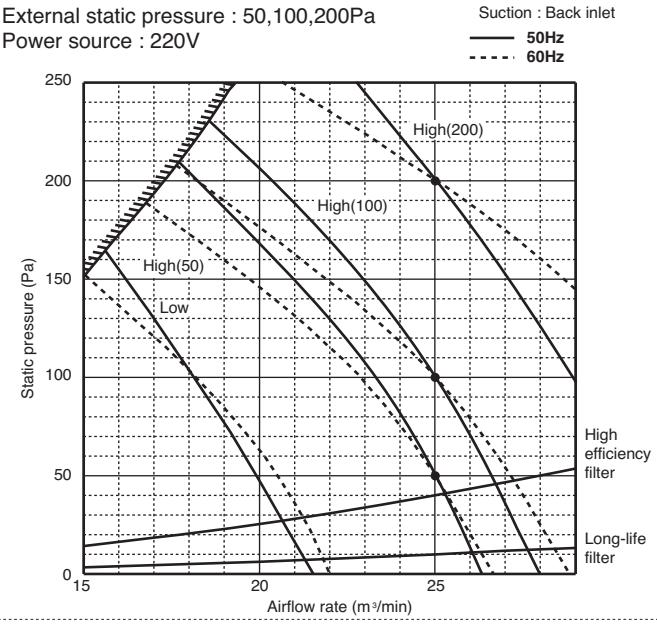
PEFY-P63VMS1(L)-E
External static pressure : 50Pa
Power source : 220,230,240V, 50/60Hz
Suction : Back inlet



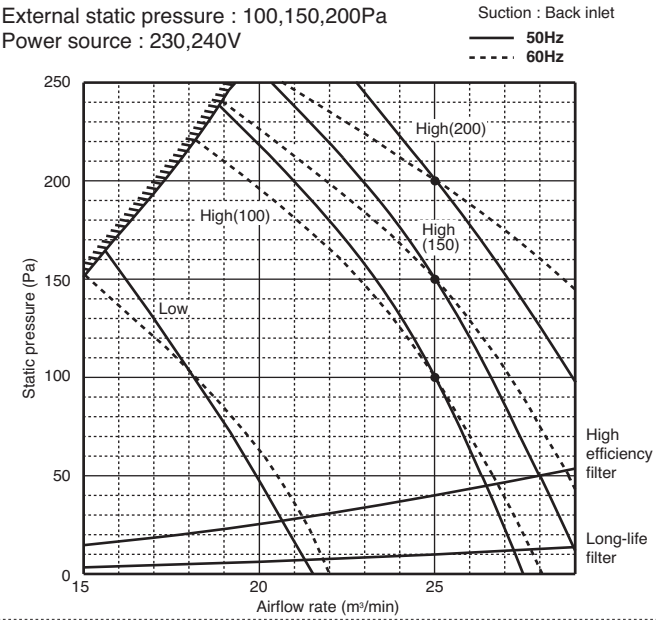
4. SOUND LEVELS

4-3. Fan characteristics curves

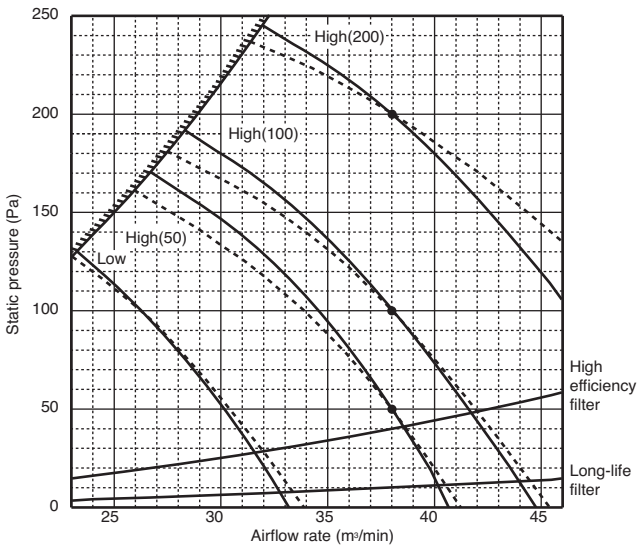
PEFY-P80VMH-E
External static pressure : 50,100,200Pa
Power source : 220V



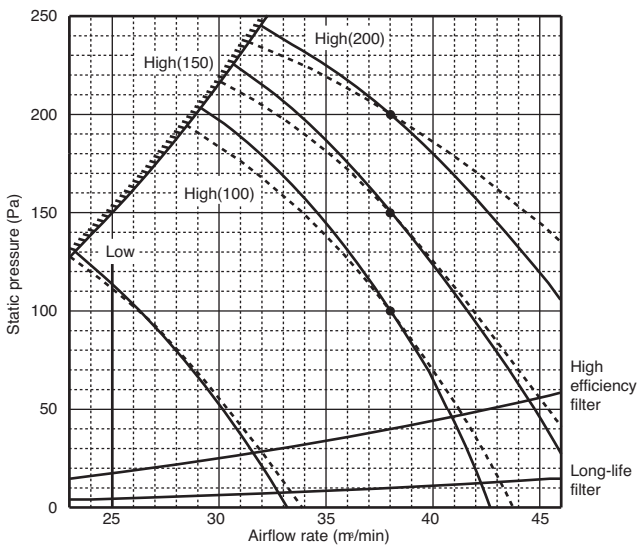
PEFY-P80VMH-E
External static pressure : 100,150,200Pa
Power source : 230,240V



PEFY-P100,125VMH-E
External static pressure : 50,100,200Pa
Power source : 220V



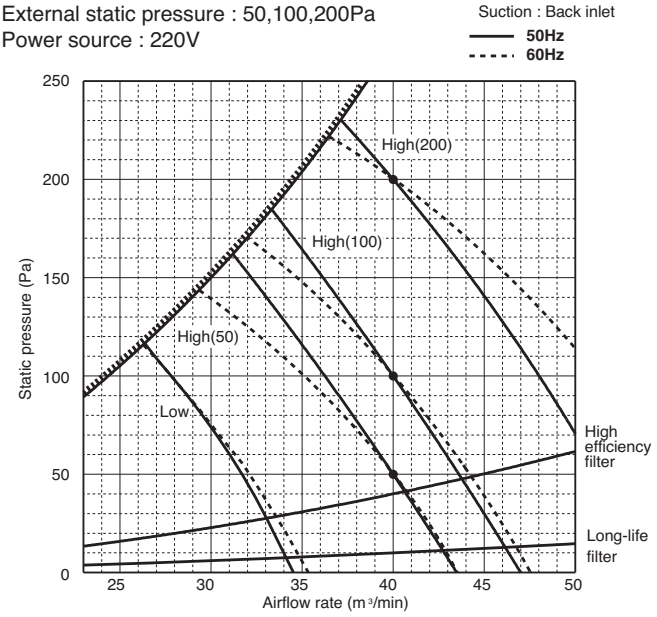
PEFY-P100,125VMH-E
External static pressure : 100,150,200Pa
Power source : 230,240V



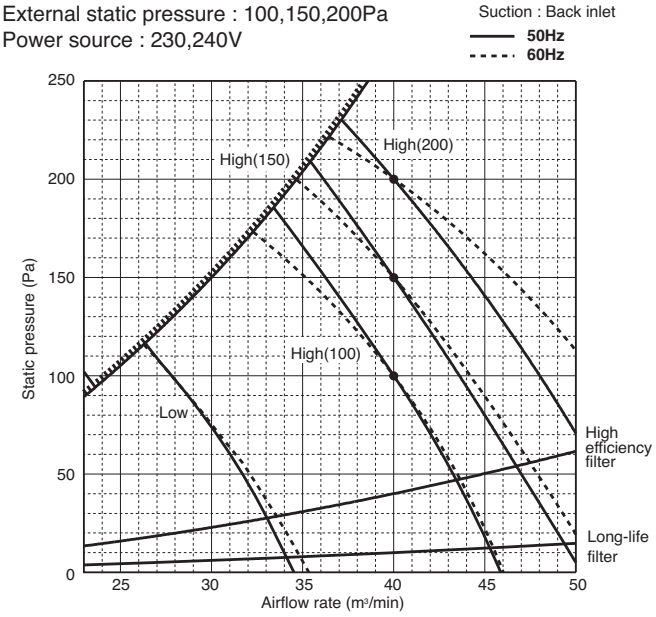
4. SOUND LEVELS

4-3. Fan characteristics curves

PEFY-P140VMH-E
External static pressure : 50,100,200Pa
Power source : 220V



PEFY-P140VMH-E
External static pressure : 100,150,200Pa
Power source : 230,240V

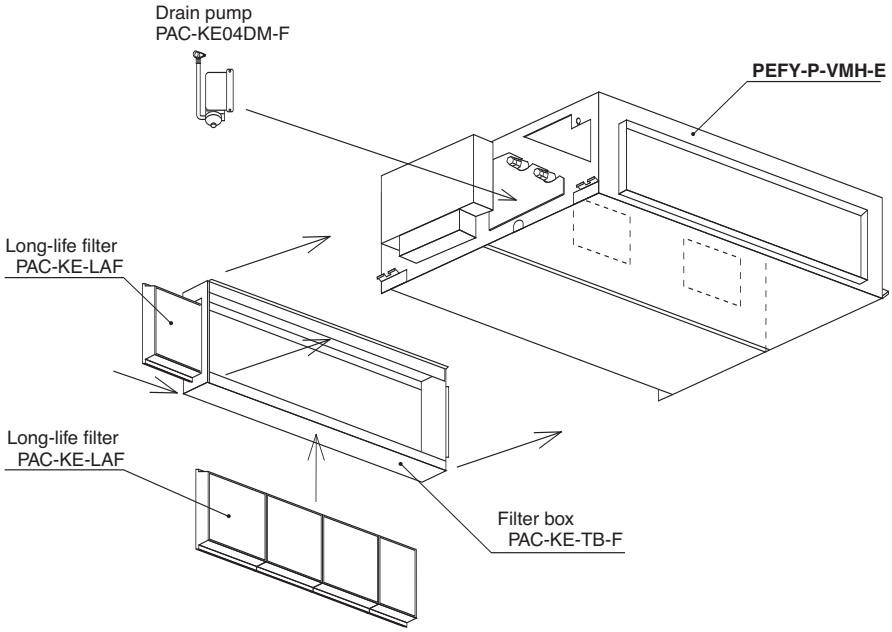


5. Optional parts for PEFY-P-VMS1L-E,VMH-E

■ Optional parts line up for the Indoor unit

	Long-life filter	Filter box	Drain pump
PEFY-P80VMH-E	PAC-KE88LAF	PAC-KE80TB-F	PAC-KE04DM-F
PEFY-P100,125,140VMH-E	PAC-KE89LAF	PAC-KE140TB-F	PAC-KE04DM-F

● PEFY-P-VMH-E



5. Optional parts for PEFY-P-VMS1L-E,VMH-E

■ Optional parts line up for the Indoor unit

	Long-life filter	Filter box	Drain pump
PEFY-P80VMH-E	PAC-KE88LAF	PAC-KE80TB-F	PAC-KE04DM-F
PEFY-P100,125,140VMH-E	PAC-KE89LAF	PAC-KE140TB-F	PAC-KE04DM-F

■ Long-life filter PAC-KE-LAF and filter box PAC-KE-TB-F for PEFY-P-VMH-E

Life span: 2,500 hr (Dust concentration 0.15mg/m³)

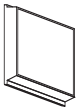
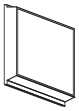
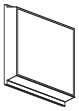
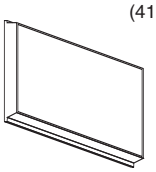
*. The actual dust situation affects the filter life span, which should be considered at the applying site.

Material: Synthetic fiber unwoven cloth filter

Static pressure loss is referred to 3-3 “Fan characteriastics curves”.

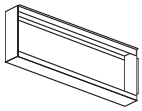
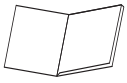
Long-life filter should be used together with filter box PAC-KE-TB-F.

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 (WT02574X04)

PAC-KE-TB-F

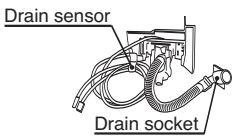
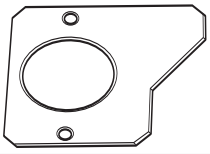
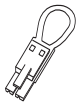
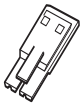
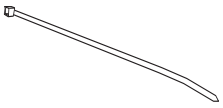
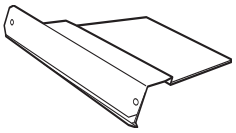
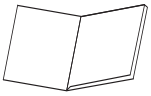
Item	① Screw	② Filter box	③ Installation manual	
Quantity	10/12*	1	1	
Shape				*PAC-KE250TB has 12 pieces of screw.

Detailed installation information should be referred to its Installation Manual (WT03018X02, WT03019X02)

■ Drain pump PAC-KE04DM-F

If drain water can not flow out the Indoor unit by gravity and gradient, a Drain-pump for draining is needed.

Drain pump PAC-KE04DM-F can pump water up to 550mm high from the drain pan.

Item	① Drain pump ass'y	② Separator	③ Rubber plug	④ Connector	⑤ Dummy connector
Quantity	1	1	2	1	1
Shape					
Item	⑥ Rubber bushing	⑦ Band	⑧ PTT screw 4X10	⑨ Fixing plate	⑩ Installation manual
Quantity	1	2	6+1 (spare)	1	1
Shape					

Detailed installation information should be referred to its Installation Manual (WT03312X02)

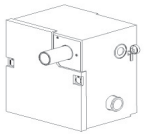
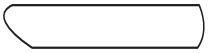
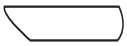
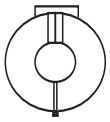
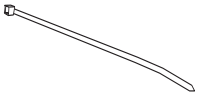
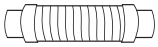
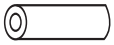
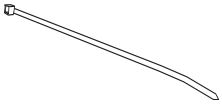
5. Optional parts for PEFY-P-VMS1L-E,VMH-E

■ Optional parts line up for the Indoor unit

	Drain pump
PEFY-P15VMS1L-E	PAC-KE07DM-E
PEFY-P20VMS1L-E	PAC-KE07DM-E
PEFY-P25VMS1L-E	PAC-KE07DM-E
PEFY-P32VMS1L-E	PAC-KE07DM-E
PEFY-P40VMS1L-E	PAC-KE07DM-E
PEFY-P50VMS1L-E	PAC-KE07DM-E
PEFY-P63VMS1L-E	PAC-KE07DM-E

■ Drain pump PAC-KE07DM-E

Drain pump is an optional part for VMS1L, and a standard for VMS1. When using drain pump, PAC-KE07DM-E (mounting type) is required.

Item	① Drain pump	② Attachment	③ Drain hose 1	④ Pipe cover 1	⑤ Pipe cover 2
Quantity	1	1	1	1	1
Shape			(385mm)	(255mm) 	(200mm) 
Item	⑥ Hose band	⑦ Screw	⑧ Clamp	⑨ Ferrite clamp	⑩ Band 1
Quantity	1	3	3	1	2
Shape					(100mm) 
Item	⑪Drain hose 2	⑫Pipe cover 3	⑬Band 2		
Quantity	1	1	6		
Shape	(175mm) 		(380mm)