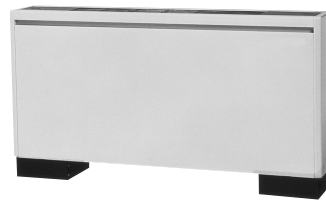


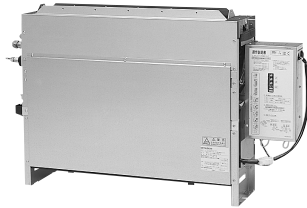


PFFY-P-VKM-E



PFFY-P-VLEM-E

**PFFY-P-VKM-E**  
**PFFY-P-VLEM-E**  
**PFFY-P-VLRM-E**  
**PFFY-P-VLRMM-E**



**PFFY-P-VLRM-E**  
**PFFY-P-VLRMM-E**

1. SPECIFICATIONS	IU-H- 2
2. EXTERNAL DIMENSIONS	IU-H- 8
3. ELECTRICAL WIRING DIAGRAMS	IU-H- 12
4. SOUND LEVELS	
4-1. Sound levels	IU-H- 15
4-2. NC curves	IU-H- 15
4-3. Fan characteristics curves	IU-H- 18
5. TEMPERATURE/AIRFLOW DISTRIBUTIONS	
5-1. Temperature distributions	IU-H- 21
5-2. Airflow distributions	IU-H- 22

- A
- B
- C
- D
- E
- F
- G
- H**
- V<sub>a</sub>
- V<sub>b</sub>
- BC
- CT

Floor standing	P20	P25	P32	P40	P50	P63	P71	P80	P100	P125	P140	P200	P250
	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
PFFY-P-VKM-E	●	●	●	●									
PFFY-P-VLEM-E	●	●	●	●	●	●							
PFFY-P-VLRM-E	●	●	●	●	●	●							
PFFY-P-VLRMM-E	●	●	●	●	●	●							

# 1. SPECIFICATIONS

R410A Data G4

Model			PFFY-P20VKM-E	PFFY-P25VKM-E	PFFY-P32VKM-E	PFFY-P40VKM-E	
Power source			1-phase 220-230-240V 50Hz				
Cooling capacity (Nominal)	*1	kW	2.2	2.8	3.6	4.5	
		kcal / h	1,900	2,400	3,100	3,900	
		Btu / h	7,500	9,600	12,300	15,400	
	*2	kcal / h	2,000	2,500	3,200	4,000	
		Power input	kW	0.025	0.025	0.025	0.028
		Current input	A	0.20	0.20	0.24	
Heating capacity (Nominal )	*3	kW	2.5	3.2	4.0	5.0	
		kcal / h	2,200	2,800	3,400	4,300	
		Btu / h	8,500	10,900	13,600	17,100	
	*3	Power input	kW	0.025	0.025	0.025	0.028
		Current input	A	0.20	0.20	0.20	0.24
External finish			Plastic (Pure White)				
External dimension H x W x D		mm	600 x 700 x 200				
		in.	23-5/8" x 27-9/16" x 7-7/8"				
Net weight		kg (lb)	15 (34)				
Heat exchanger			Cross fin (Aluminium fin and copper tube)				
FAN	Type x Quantity		Line flow fan x 2				
	External static press.	Pa	0				
		mmH <sub>2</sub> O	0				
	Motor type		DC motor				
	Motor output	kW	0.03 x 2				
	Driving mechanism		Direct-drive				
	Airflow rate (Low-Mid-High -SHigh)	m <sup>3</sup> / min	5.9 - 6.8 - 7.6 - 8.7	6.1 - 7.0 - 8.0 - 9.1	6.1 - 7.0 - 8.0 - 9.1	8.0 - 9.0 - 9.5 - 10.7	
L / s		98 - 113 - 127 - 145	102 - 117 - 133 - 152	102 - 117 - 133 - 152	133 - 150 - 158 - 178		
	cfm	208 - 240 - 268 - 307	215 - 247 - 283 - 321	215 - 247 - 283 - 321	283 - 318 - 335 - 378		
Noise level (Low-Mid-High-SHigh) (measured in anechoic room)		dB <A>	27 - 31 - 34 - 37	28 - 32 - 35 - 38	28 - 32 - 35 - 38	35 - 38 - 42 - 44	
Insulation material			Polyethylene sheet				
Air filter			PP honeycomb fabric (Catechin air filter)				
Protection device			Fuse				
Refrigerant control device			LEV				
Connectable outdoor unit			R410A, R407C, R22 CITY MULTI				
Diameter of refrigerant pipe	Liquid (R410A) (R22, R407C)	mm (in.)	ø6.35 (ø1/4") Flare				
	Gas (R410A) (R22, R407C)	mm (in.)	ø6.35 (ø1/4") Flare ø12.7 (ø1/2") Flare ø12.7 (ø1/2") Flare				
Field drain pipe size		mm (in.)	I.D. 16mm (5/8")				
Drawing	External		IU-BK01-B517				
	Wiring		IU-RG79-V367				
	Refrigerant cycle		-				
Standard attachment	Document	Installation Manual, Instruction Book					
	Accessory						
Remark	Optional parts		-				
	Installation		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.				
<b>Note :</b>			*:1 Nominal cooling conditions	*:2 Nominal cooling conditions	*:3 Nominal heating conditions	Unit converter	
Indoor :			27° CDB/19° CWB (81° FDB/66° FWB)	27° CDB/19.5° CWB (81° FDB/67° FWB)	20° CDB (68° FDB)	kcal/h = kW x 860	
Outdoor :			35° CDB (95° FDB)	35° CDB (95° FDB)	7° CDB/6° CWB (45° FDB/43° FWB)	Btu/h = kW x 3,412	
Pipe length :			7.5 m (24-9/16 ft)	5 m (16-3/8 ft)	7.5 m (24-9/16 ft)	cfm = m <sup>3</sup> /min x 35.31	
Level difference :			0 m (0 ft)	0 m (0 ft)	0 m (0 ft)	lb = kg / 0.4536	
* Nominal conditions *:1, *:3 are subject to JIS B8615-1.						*Above specification data is subject to rounding variation.	
* Due to continuing improvement, above specification may be subject to change without notice.							

Ref.: Spec\_PFFY-P-VKM-E\_1

# 1. SPECIFICATIONS

R410A Data G4

Model			PFFY-P20VLEM-E	PFFY-P25VLEM-E	PFFY-P32VLEM-E	PFFY-P40VLEM-E	
Power source			1-phase 220-240V 50Hz, 1-phase 208-230V 60Hz				
Cooling capacity (Nominal)	*1	kW	2.2	2.8	3.6	4.5	
		kcal / h	1,900	2,400	3,100	3,900	
		Btu / h	7,500	9,600	12,300	15,400	
	*2	kcal / h	2,000	2,500	3,150	4,000	
		Power input	kW	0.04 / 0.06	0.04 / 0.06	0.06 / 0.07	0.065 / 0.075
Current input		A	0.19 / 0.25	0.19 / 0.25	0.29 / 0.30	0.32 / 0.33	
Heating capacity (Nominal)	*3	kW	2.5	3.2	4.0	5.0	
		kcal / h	2,200	2,800	3,400	4,300	
		Btu / h	8,500	10,900	13,600	17,100	
	Power input	kW	0.04 / 0.06	0.04 / 0.06	0.06 / 0.07	0.065 / 0.075	
		Current input	A	0.19 / 0.25	0.19 / 0.25	0.29 / 0.30	0.32 / 0.33
External finish			Acrylic painted, MUNSELL (5Y 8/1)				
External dimension H x W x D		mm	630 x 1,050 x 220	630 x 1,050 x 220	630 x 1,170 x 220	630 x 1,170 x 220	
		in.	24-13/16" x 41-3/8" x 8-11/16"	24-13/16" x 41-3/8" x 8-11/16"	24-13/16" x 46-1/8" x 8-11/16"	24-13/16" x 46-1/8" x 8-11/16"	
Net weight		kg (lb)	23 (51)	23 (51)	25 (56)	26 (58)	
Heat exchanger			Cross fin (Aluminium fin and copper tube)				
FAN	Type x Quantity		Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 2	Sirocco fan x 2	
	External static press.	Pa	0	0	0	0	
		mmH <sub>2</sub> O	0	0	0	0	
	Motor type		1-phase induction motor				
	Motor output		kW	0.015	0.015	0.018	0.030
	Driving mechanism		Direct-driven by motor				
	Airflow rate (Low-High)	m <sup>3</sup> / min		5.5 - 6.5	5.5 - 6.5	7.0 - 9.0	9.0 - 11.0
L / s		92 - 108	92 - 108	117 - 150	150 - 183		
cfm		194 - 230	194 - 230	247 - 318	318 - 388		
Noise level (Low-High) (measured in anechoic room)	dB <A>		32 - 38 (220V, 50Hz)	32 - 38 (220V, 50Hz)	33 - 38 (220V, 50Hz)	36 - 41 (220V, 50Hz)	
	dB <A>		33 - 39 (230V, 50Hz)	33 - 39 (230V, 50Hz)	34 - 39 (230V, 50Hz)	37 - 42 (230V, 50Hz)	
	dB <A>		34 - 40 (240V, 50Hz)	34 - 40 (240V, 50Hz)	35 - 40 (240V, 50Hz)	38 - 43 (240V, 50Hz)	
Insulation material			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) (R22, R407C)	mm (in.)	ø6.35 (ø1/4") Flare	ø6.35 (ø1/4") Flare	ø6.35 (ø1/4") Flare	ø6.35 (ø1/4") Flare	
		Gas (R410A) (R22, R407C)	mm (in.)	ø12.7 (ø1/2") Flare	ø12.7 (ø1/2") Flare	ø12.7 (ø1/2") Flare	ø12.7 (ø1/2") Flare
Field drain pipe size		mm (in.)	I.D. 26mm (1")				
Drawing	External		IU-W65-3950				
	Wiring		IU-W65-3960				
	Refrigerant cycle		-				
Standard attachment	Document		Installation Manual, Instruction Book				
	Accessory		Drain hose (O.D.27mm(1-3/32"), (End O.D.20mm(13/16"))) (flexible joint)				
Remark	Optional parts		-				
	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	Unit converter
Indoor :	27° CDB/19° CWB (81° FDB/66° FWB)	27° CDB/19.5° CWB (81° FDB/67° FWB)	20° CDB (68° FDB)	kcal/h = kW x 860
Outdoor :	35° CDB (95° FDB)	35° CDB (95° FDB)	7° CDB/6° CWB (45° FDB/43° FWB)	Btu/h = kW x 3,412
Pipe length :	7.5 m (24-9/16 ft)	5 m (16-3/8 ft)	7.5 m (24-9/16 ft)	cfm = m <sup>3</sup> /min x 35.31
Level difference :	0 m (0 ft)	0 m (0 ft)	0 m (0 ft)	lb = kg / 0.4536
* Nominal conditions *1, *3 are subject to JIS B8615-1.				*Above specification data is subject to rounding variation.
* Due to continuing improvement, above specification may be subject to change without notice.				

Ref.: Spec\_PFFY-P-VLE(R)M-E\_1

# 1. SPECIFICATIONS

R410A Data G4

Model			PFFY-P50VLEM-E	PFFY-P63VLEM-E	PFFY-P20VLRM-E	PFFY-P25VLRM-E	
Power source			1-phase 220-240V 50Hz, 1-phase 208-230V 60Hz				
Cooling capacity (Nominal)	*1	kW	5.6	7.1	2.2	2.8	
		kcal / h	4,800	6,100	1,900	2,400	
		Btu / h	19,100	24,200	7,500	9,600	
	*2	kcal / h	5,000	6,300	2,000	2,500	
		Power input	kW	0.085 / 0.09	0.1 / 0.11	0.04 / 0.06	0.04 / 0.06
Current input		A	0.40 / 0.41	0.46 / 0.47	0.19 / 0.25	0.19 / 0.25	
Heating capacity (Nominal)	*3	kW	6.3	8.0	2.5	3.2	
		kcal / h	5,400	6,900	2,200	2,800	
		Btu / h	21,500	27,300	8,500	10,900	
	Power input	kW	0.085 / 0.09	0.1 / 0.11	0.04 / 0.06	0.04 / 0.06	
		Current input		A	0.40 / 0.41	0.46 / 0.47	0.19 / 0.25
External finish			Acrylic painted, MUNSELL (5Y 8/1)		Galvanized		
External dimension H x W x D		mm	630 x 1,410 x 220	630 x 1,410 x 220	639 x 886 x 220	639 x 886 x 220	
		in.	24-13/16" x 55-9/16" x 8-11/16"	24-13/16" x 55-9/16" x 8-11/16"	25-3/16" x 34-15/16" x 8-11/16"	25-3/16" x 34-15/16" x 8-11/16"	
Net weight		kg (lb)	30 (67)	32 (71)	18.5 (41)	18.5 (41)	
Heat exchanger			Cross fin (Aluminium fin and copper tube)				
FAN	Type x Quantity		Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 1	Sirocco fan x 1	
	External static press.	Pa	0	0	0	0	
		mmH <sub>2</sub> O	0	0	0	0	
	Motor type		1-phase induction motor				
	Motor output		kW	0.035	0.050	0.015	0.015
	Driving mechanism		Direct-driven by motor				
	Airflow rate (Low-High)	m <sup>3</sup> / min		12.0 - 14.0	12.0 - 15.5	5.5 - 6.5	5.5 - 6.5
		L / s		200 - 233	200 - 258	92 - 108	92 - 108
cfm		424 - 494	424 - 547	194 - 230	194 - 230		
Noise level (Low-High) (measured in anechoic room)		dB <A>	36 - 41 (220V, 50Hz)	38 - 44 (220V, 50Hz)	32 - 38 (220V, 50Hz)	32 - 38 (220V, 50Hz)	
		dB <A>	37 - 42 (230V, 50Hz)	39 - 45 (230V, 50Hz)	33 - 39 (230V, 50Hz)	33 - 39 (230V, 50Hz)	
		dB <A>	38 - 43 (240V, 50Hz)	40 - 46 (240V, 50Hz)	34 - 40 (240V, 50Hz)	34 - 40 (240V, 50Hz)	
Insulation material			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) (R22, R407C)	mm (in.)	ø6.35 (ø1/4") Flare	ø9.52 (ø3/8") Flare	ø6.35 (ø1/4") Flare	ø6.35 (ø1/4") Flare	
			ø9.52 (ø3/8") Flare	ø9.52 (ø3/8") Flare	ø6.35 (ø1/4") Flare	ø6.35 (ø1/4") Flare	
	Gas (R410A) (R22, R407C)	mm (in.)	ø12.7 (ø1/2") Flare	ø15.88 (ø5/8") Flare	ø12.7 (ø1/2") Flare	ø12.7 (ø1/2") Flare	
			ø15.88 (ø5/8") Flare	ø15.88 (ø5/8") Flare	ø12.7 (ø1/2") Flare	ø12.7 (ø1/2") Flare	
Field drain pipe size		mm (in.)	I.D. 26mm (1")				
Drawing	External		IU-W65-3950	IU-W65-3950	IU-W65-3951	IU-W65-3951	
	Wiring		IU-W65-3960	IU-W65-3960	IU-W65-3960	IU-W65-3960	
	Refrigerant cycle		-	-	-	-	
Standard attachment	Document		Installation Manual, Instruction Book				
	Accessory		Drain hose (O.D.27mm(1-3/32"), (End O.D.20mm(13/16"))) (flexible joint)				
Remark	Optional parts		-				
	Installation		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.				
<b>Note :</b>			*:1 Nominal cooling conditions	*:2 Nominal cooling conditions	*:3 Nominal heating conditions	Unit converter	
Indoor :			27° CDB/19° CWB (81° FDB/66° FWB)	27° CDB/19.5° CWB (81° FDB/67° FWB)	20° CDB (68° FDB)	kcal/h = kW x 860	
Outdoor :			35° CDB (95° FDB)	35° CDB (95° FDB)	7° CDB/6° CWB (45° FDB/43° FWB)	Btu/h = kW x 3,412	
Pipe length :			7.5 m (24-9/16 ft)	5 m (16-3/8 ft)	7.5 m (24-9/16 ft)	cfm = m <sup>3</sup> /min x 35.31	
Level difference :			0 m (0 ft)	0 m (0 ft)	0 m (0 ft)	lb = kg / 0.4536	
* Nominal conditions *:1, *:3 are subject to JIS B8615-1.						*Above specification data is subject to rounding variation.	
* Due to continuing improvement, above specification may be subject to change without notice.							

Ref.: Spec\_PFFY-P-VLE(R)M-E\_2

# 1. SPECIFICATIONS

R410A Data G4

Model			PFFY-P32VLRM-E	PFFY-P40VLRM-E	PFFY-P50VLRM-E	PFFY-P63VLRM-E
Power source			1-phase 220-240V 50Hz, 1-phase 208-230V 60Hz			
Cooling capacity (Nominal)	*1	kW	3.6	4.5	5.6	7.1
		kcal / h	3,100	3,900	4,800	6,100
		Btu / h	12,300	15,400	19,100	24,200
	*2	kcal / h	3,150	4,000	5,000	6,300
		Power input	kW	0.06 / 0.07	0.065 / 0.075	0.085 / 0.09
Current input		A	0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47
Heating capacity (Nominal)	*3	kW	4.0	5.0	6.3	8.0
		kcal / h	3,400	4,300	5,400	6,900
		Btu / h	13,600	17,100	21,500	27,300
	Power input	kW	0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11
		Current input	A	0.29 / 0.30	0.32 / 0.33	0.40 / 0.41
External finish			Galvanized			
External dimension H x W x D		mm	639 x 1,006 x 220	639 x 1,006 x 220	639 x 1,246 x 220	639 x 1,246 x 220
		in.	25-3/16" x 39-5/8" x 8-11/16"	25-3/16" x 39-5/8" x 8-11/16"	25-3/16" x 49-1/16" x 8-11/16"	25-3/16" x 49-1/16" x 8-11/16"
Net weight		kg (lb)	20 (45)	21 (47)	25 (56)	27 (60)
Heat exchanger			Cross fin (Aluminium 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	0	0	0	0
		mmH <sub>2</sub> O	0	0	0	0
	Motor type		1-phase induction motor			
	Motor output	kW	0.018	0.030	0.035	0.050
	Driving mechanism		Direct-driven by motor			
	Airflow rate (Low-High)	m <sup>3</sup> / min	7.0 - 9.0	9.0 - 11.0	12.0 - 14.0	12.0 - 15.5
		L / s	117 - 150	150 - 183	200 - 233	200 - 258
cfm		247 - 318	318 - 388	424 - 494	424 - 547	
Noise level (Low-High) (measured in anechoic room)	dB <A>	33 - 38 (220V, 50Hz)	36 - 41 (220V, 50Hz)	36 - 41 (220V, 50Hz)	38 - 44 (220V, 50Hz)	
	dB <A>	34 - 39 (230V, 50Hz)	37 - 42 (230V, 50Hz)	37 - 42 (230V, 50Hz)	39 - 45 (230V, 50Hz)	
	dB <A>	35 - 40 (240V, 50Hz)	38 - 43 (240V, 50Hz)	38 - 43 (240V, 50Hz)	40 - 46 (240V, 50Hz)	
Insulation material			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) (R22, R407C)	mm (in.)	ø6.35 (ø1/4") Flare	ø6.35 (ø1/4") Flare	ø6.35 (ø1/4") Flare	ø9.52 (ø3/8") Flare
		Gas (R410A) (R22, R407C)	mm (in.)	ø12.7 (ø1/2") Flare	ø12.7 (ø1/2") Flare	ø12.7 (ø1/2") Flare
Field drain pipe size		mm (in.)	I.D. 26mm (1")			
Drawing	External		IU-W65-3951			
	Wiring		IU-W65-3960			
	Refrigerant cycle		-			
Standard attachment	Document		Installation Manual, Instruction Book			
	Accessory		Drain hose (O.D.27mm(1-3/32"), (End O.D.20mm(13/16"))) (flexible joint)			
Remark	Optional parts		-			
	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	Unit converter
	Indoor : 27° CDB/19° CWB (81° FDB/66° FWB)	27° CDB/19.5° CWB (81° FDB/67° FWB)	20° CDB (68° FDB)	kcal/h = kW x 860
	Outdoor : 35° CDB (95° FDB)	35° CDB (95° FDB)	7° CDB/6° CWB (45° FDB/43° FWB)	Btu/h = kW x 3,412
	Pipe length : 7.5 m (24-9/16 ft)	5 m (16-3/8 ft)	7.5 m (24-9/16 ft)	cfm = m <sup>3</sup> /min x 35.31
	Level difference : 0 m (0 ft)	0 m (0 ft)	0 m (0 ft)	lb = kg / 0.4536
* Nominal conditions *1, *3 are subject to JIS B8615-1.				*Above specification data is subject to rounding variation.
* Due to continuing improvement, above specification may be subject to change without notice.				

Ref.: Spec\_PFFY-P-VLE(R)M-E\_3

# 1. SPECIFICATIONS

R410A Data G4

Model			PFFY-P20VLRMM-E	PFFY-P25VLRMM-E	PFFY-P32VLRMM-E	PFFY-P40VLRMM-E	
Power source			1-phase 220-240V (50/60Hz)				
Cooling capacity (Nominal)	*1	kW	2.2	2.8	3.6	4.5	
		kcal / h	1,900	2,400	3,100	3,900	
		Btu / h	7,500	9,600	12,300	15,400	
	*2	kcal / h	2,000	2,500	3,150	4,000	
		Power input	kW	0.04	0.04	0.04	0.05
		Current input	A	0.34	0.38	0.43	
Heating capacity (Nominal)	*3	kW	2.5	3.2	4.0	5.0	
		kcal / h	2,200	2,800	3,400	4,300	
		Btu / h	8,500	10,900	13,600	17,100	
	Power input	kW	0.04	0.04	0.04	0.05	
		Current input	A	0.34	0.34	0.38	0.43
External finish			Galvanized steel plate				
External dimension H x W x D		mm	639 x 886 x 220	639 x 886 x 220	639 x 1006 x 220	639 x 1006 x 220	
		in.	25-3/16" x 34-15/16" x 8-11/16"	25-3/16" x 34-15/16" x 8-11/16"	25-3/16" x 39-5/8" x 8-11/16"	25-3/16" x 39-5/8" x 8-11/16"	
Net weight		kg (lb)	18.5 (41)	18.5 (41)	20 (45)	21 (47)	
Heat exchanger			Cross fin (Aluminium fin and copper tube)				
FAN	Type x Quantity		Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 2	Sirocco fan x 2	
	External static press.	Pa	20 - 40 - 60	20 - 40 - 60	20 - 40 - 60	20 - 40 - 60	
		mmH <sub>2</sub> O	2.0 - 4.1 - 6.1	2.0 - 4.1 - 6.1	2.0 - 4.1 - 6.1	2.0 - 4.1 - 6.1	
	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 <sup>3</sup> / min		4.5 - 5.5 - 6.5	4.5 - 5.5 - 6.5	6.5 - 7.5 - 9.0	8.0 - 9.5 - 11.0
		L / s		75 - 92 - 108	75 - 92 - 108	108 - 125 - 150	133 - 158 - 183
cfm		159 - 194 - 230	159 - 194 - 230	230 - 265 - 318	283 - 335 - 388		
Noise level (Low-Mid-High) (measured in anechoic room)	dB <A>		31 - 36 - 40 (20Pa)	31 - 36 - 40 (20Pa)	27 - 32 - 37 (20Pa)	30 - 36 - 40 (20Pa)	
	dB <A>		34 - 39 - 42 (40Pa)	34 - 39 - 42 (40Pa)	30 - 35 - 41 (40Pa)	32 - 38 - 42 (40Pa)	
	dB <A>		35 - 40 - 43 (60Pa)	35 - 40 - 43 (60Pa)	32 - 37 - 42 (60Pa)	35 - 39 - 44 (60Pa)	
Insulation material			Polyethylene foam, Urethane foam				
Air filter			PP honeycomb fabric (washable)				
Protection device			Fuse				
Refrigerant control device			LEV				
Connectable outdoor unit			R410A 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	
	Gas (R410A)	mm (in.)	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.)	I.D. 26mm (1")<Accessory hose O.D.27mm(top end:O.D.20mm)>				
Drawing	External		IU-KB94-L081	IU-KB94-L081	IU-KB94-L081	IU-KB94-L081	
	Wiring		IU-KB94-G985	IU-KB94-G985	IU-KB94-G985	IU-KB94-G985	
	Refrigerant cycle		-	-	-	-	
Standard attachment	Document		Installation Manual, Instruction Book				
	Accessory		Screw plate, Level adjusting screw, Strainer, Drain hose (flexible joint), Hose band				
Remark	Optional parts		-				
	Installation		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.				
<b>Note :</b>			*:1 Nominal cooling conditions	*:2 Nominal cooling conditions	*:3 Nominal heating conditions	Unit converter	
Indoor :			27°CDB/19°CWB (81°FDB/66°FWB)	27°CDB/19.5°CWB (81°FDB/67°FWB)	20°CDB (68°FDB)	kcal/h = kW x 860	
Outdoor :			35°CDB (95°FDB)	35°CDB (95°FDB)	7°CDB/6°CWB (45°FDB/43°FWB)	Btu/h = kW x 3,412	
Pipe length :			7.5 m (24-9/16 ft)	5 m (16-3/8 ft)	7.5 m (24-9/16 ft)	cfm = m <sup>3</sup> /min x 35.31	
Level difference :			0 m (0 ft)	0 m (0 ft)	0 m (0 ft)	lb = kg / 0.4536	
* Nominal conditions *:1, *:3 are subject to JIS B8615-1.						*Above specification data is subject to rounding variation.	
* Due to continuing improvement, above specification may be subject to change without notice.							

Ref.: Spec\_PFFY-P-VLRMM-E\_1

# 1. SPECIFICATIONS

R410A Data G4

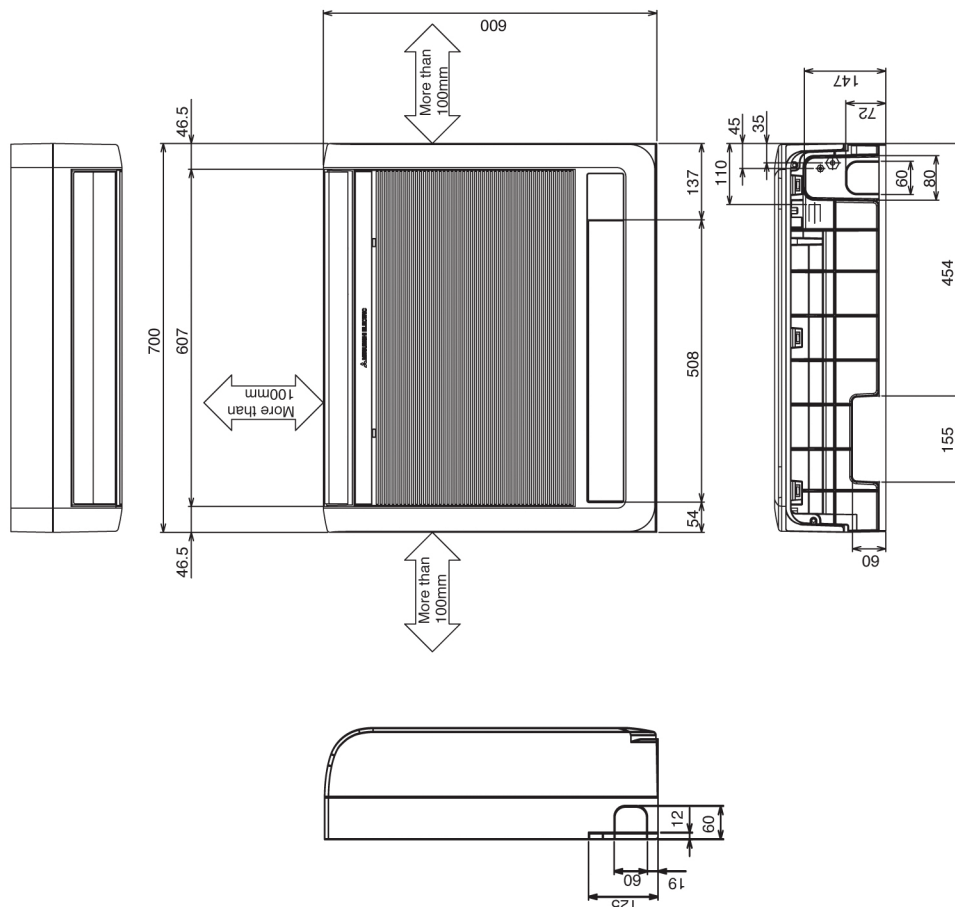
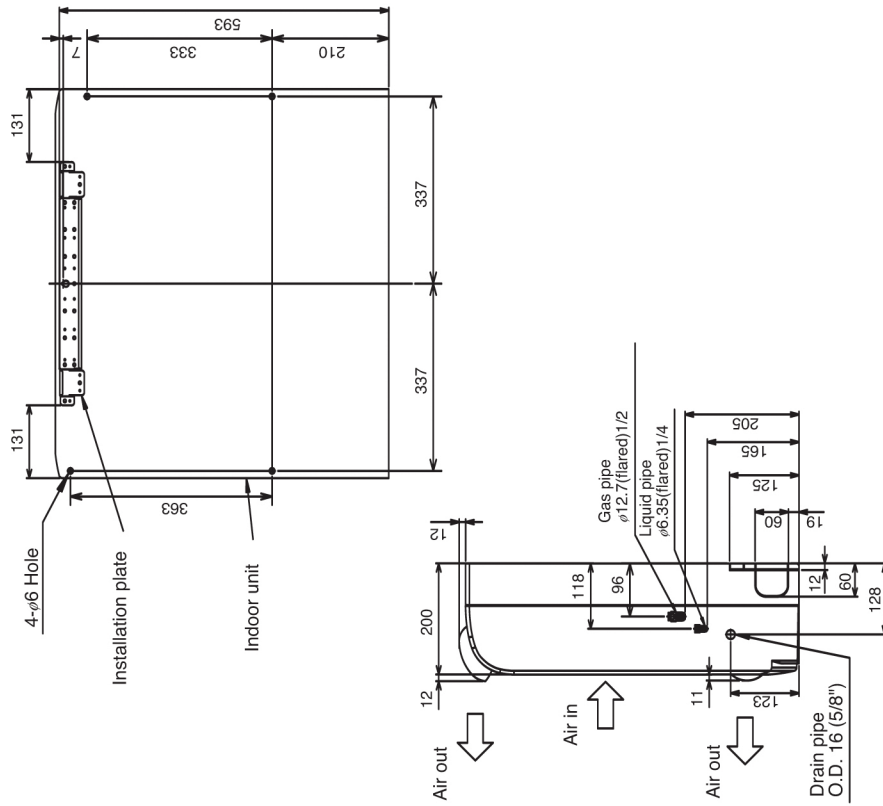
Model			PFFY-P50VLRMM-E	PFFY-P63VLRMM-E						
Power source			1-phase 220-240V (50/60Hz)							
Cooling capacity (Nominal)	*1	kW	5.6	7.1						
		kcal / h	4,800	6,100						
		Btu / h	19,100	24,200						
	*2	kcal / h	5,000	6,300						
		Power input	kW	0.05	0.07					
	Current input	A	0.48	0.59						
Heating capacity (Nominal)	*3	kW	6.3	8.0						
		kcal / h	5,400	6,900						
		Btu / h	21,500	27,300						
	Power input	kW	0.05	0.07						
		Current input	A	0.48	0.59					
External finish			Galvanized steel plate							
External dimension H x W x D		mm	639 x 1246 x 220	639 x 1246 x 220						
		in.	25-3/16" x 49-1/16" x 8-11/16"	25-3/16" x 49-1/16" x 8-11/16"						
Net weight		kg (lb)	25 (56)	27 (60)						
Heat exchanger			Cross fin (Aluminium fin and copper tube)							
FAN	Type x Quantity		Sirocco fan x 2	Sirocco fan x 2						
	External static press.	Pa	20 - 40 - 60	20 - 40 - 60						
		mmH <sub>2</sub> O	2.0 - 4.1 - 6.1	2.0 - 4.1 - 6.1						
	Motor type			DC brushless motor						
	Motor output	kW	0.096	0.096						
	Driving mechanism			Direct-driven						
	Airflow rate (Low-Mid-High)	m <sup>3</sup> / min	10.0 - 12.0 - 14.0	11.0 - 13.0-15.5						
		L / s	167 - 200 - 233	183 - 217 - 258						
cfm		353 - 424 - 494	388 - 459 - 547							
Noise level (Low-Mid-High) (measured in anechoic room)	dB <A>	32 - 37 - 41 (20Pa)	35 - 40 - 44 (20Pa)							
	dB <A>	35 - 40 - 44 (40Pa)	36 - 42 - 47 (40Pa)							
	dB <A>	36 - 41 - 45 (60Pa)	38 - 43 - 48 (60Pa)							
Insulation material			Polyethylene foam, Urethane foam							
Air filter			PP honeycomb fabric (washable)							
Protection device			Fuse							
Refrigerant control device			LEV							
Connectable outdoor unit			R410A CITY MULTI							
Diameter of refrigerant pipe	Liquid (R410A)	mm (in.)	ø6.35 (ø1/4") Brazed	ø9.52 (ø3/8") Brazed						
	Gas (R410A)	mm (in.)	ø12.7 (ø1/2") Brazed	ø15.88 (ø5/8") Brazed						
Field drain pipe size		mm (in.)	I.D. 26mm (1")<Accessory hose O.D.27mm(top end:O.D.20mm)>							
Drawing	External		IU-KB94-L081	IU-KB94-L081						
	Wiring		IU-KB94-G985	IU-KB94-G985						
	Refrigerant cycle		-	-						
Standard attachment	Document		Installation Manual, Instruction Book							
	Accessory		Screw plate, Level adjusting screw, Strainer, Drain hose (flexible joint), Hose band							
Remark	Optional parts		-							
	Installation		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.							
<b>Note :</b> <table border="0" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%; vertical-align: top;">                     *1 Nominal cooling conditions                      Indoor : 27° CDB/19° CWB (81° FDB/66° FWB)                      Outdoor : 35° CDB (95° FDB)                      Pipe length : 7.5 m (24-9/16 ft)                      Level difference : 0 m (0 ft)                 </td> <td style="width:33%; vertical-align: top;">                     *2 Nominal cooling conditions                      27° CDB/19.5° CWB (81° FDB/67° FWB)                      35° CDB (95° FDB)                      5 m (16-3/8 ft)                      0 m (0 ft)                 </td> <td style="width:33%; vertical-align: top;">                     *3 Nominal heating conditions                      20° CDB (68° FDB)                      7° CDB/6° CWB (45° FDB/43° FWB)                      7.5 m (24-9/16 ft)                      0 m (0 ft)                 </td> <td style="width:15%; vertical-align: top;"> <b>Unit converter</b>                      kcal/h = kW x 860                      Btu/h = kW x 3,412                      cfm = m<sup>3</sup>/min x 35.31                      lb = kg / 0.4536                 </td> </tr> </table>							*1 Nominal cooling conditions Indoor : 27° CDB/19° CWB (81° FDB/66° FWB) Outdoor : 35° CDB (95° FDB) Pipe length : 7.5 m (24-9/16 ft) Level difference : 0 m (0 ft)	*2 Nominal cooling conditions 27° CDB/19.5° CWB (81° FDB/67° FWB) 35° CDB (95° FDB) 5 m (16-3/8 ft) 0 m (0 ft)	*3 Nominal heating conditions 20° CDB (68° FDB) 7° CDB/6° CWB (45° FDB/43° FWB) 7.5 m (24-9/16 ft) 0 m (0 ft)	<b>Unit converter</b> kcal/h = kW x 860 Btu/h = kW x 3,412 cfm = m <sup>3</sup> /min x 35.31 lb = kg / 0.4536
*1 Nominal cooling conditions Indoor : 27° CDB/19° CWB (81° FDB/66° FWB) Outdoor : 35° CDB (95° FDB) Pipe length : 7.5 m (24-9/16 ft) Level difference : 0 m (0 ft)	*2 Nominal cooling conditions 27° CDB/19.5° CWB (81° FDB/67° FWB) 35° CDB (95° FDB) 5 m (16-3/8 ft) 0 m (0 ft)	*3 Nominal heating conditions 20° CDB (68° FDB) 7° CDB/6° CWB (45° FDB/43° FWB) 7.5 m (24-9/16 ft) 0 m (0 ft)	<b>Unit converter</b> kcal/h = kW x 860 Btu/h = kW x 3,412 cfm = m <sup>3</sup> /min x 35.31 lb = kg / 0.4536							
* Nominal conditions *1, *3 are subject to JIS B8615-1. * Due to continuing improvement, above specification may be subject to change without notice. *Above specification data is subject to rounding variation.										

Ref.: Spec\_PFFY-P-VLRMM-E\_2

PFFY-P20,25,32,40VKM-E

Drw. : IU-BK01-B517

Unit : mm

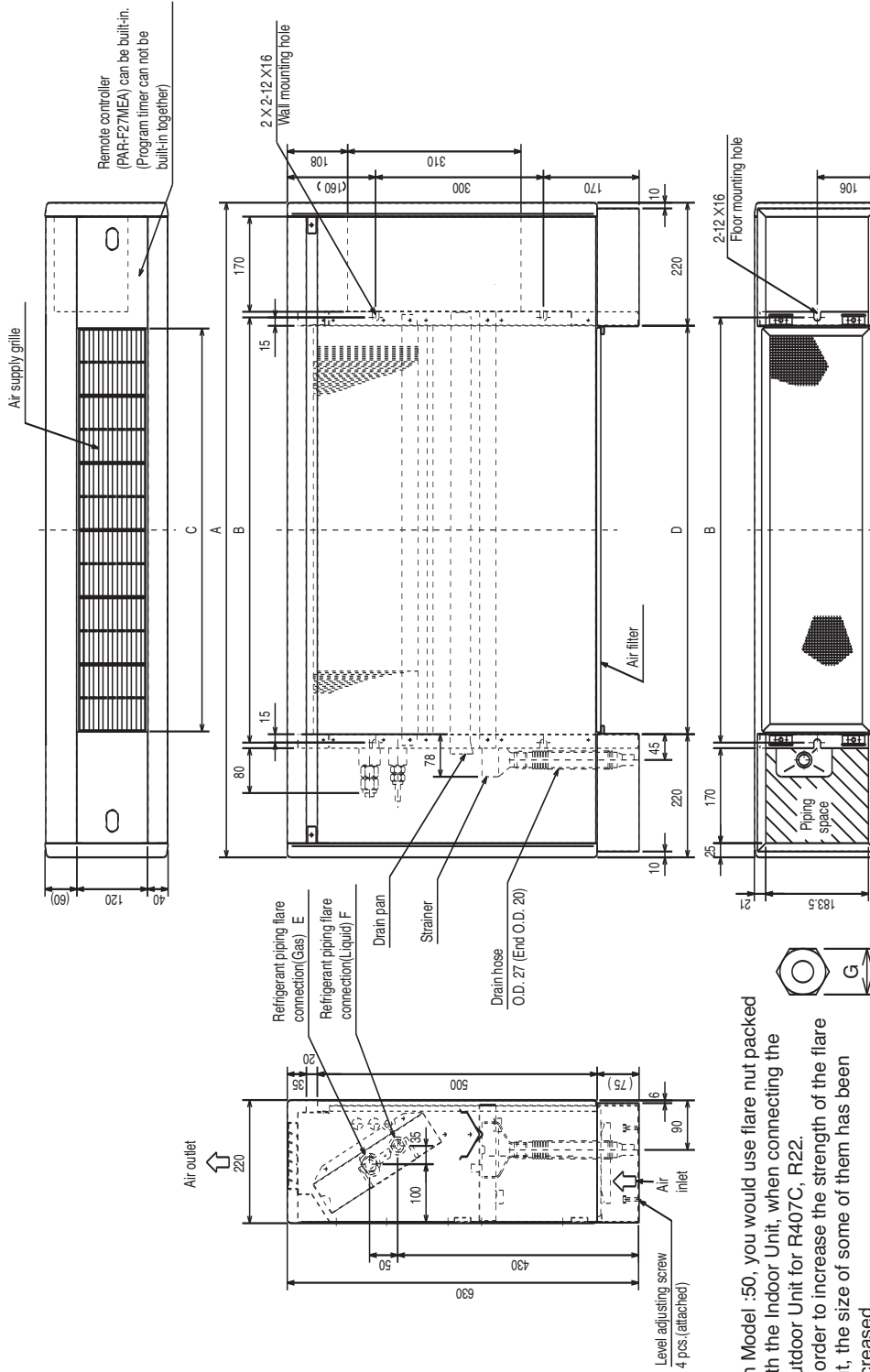




## 2. EXTERNAL DIMENSIONS

### PFFY-P20,25,32,40,50,63VLEM-E

Draw. : IU-W65-3950  
Unit : mm



Note: 1. On Model :50, you would use flare nut packed with the Indoor Unit, when connecting the Outdoor Unit for R407C, R22.  
2. In order to increase the strength of the flare nut, the size of some of them has been increased.

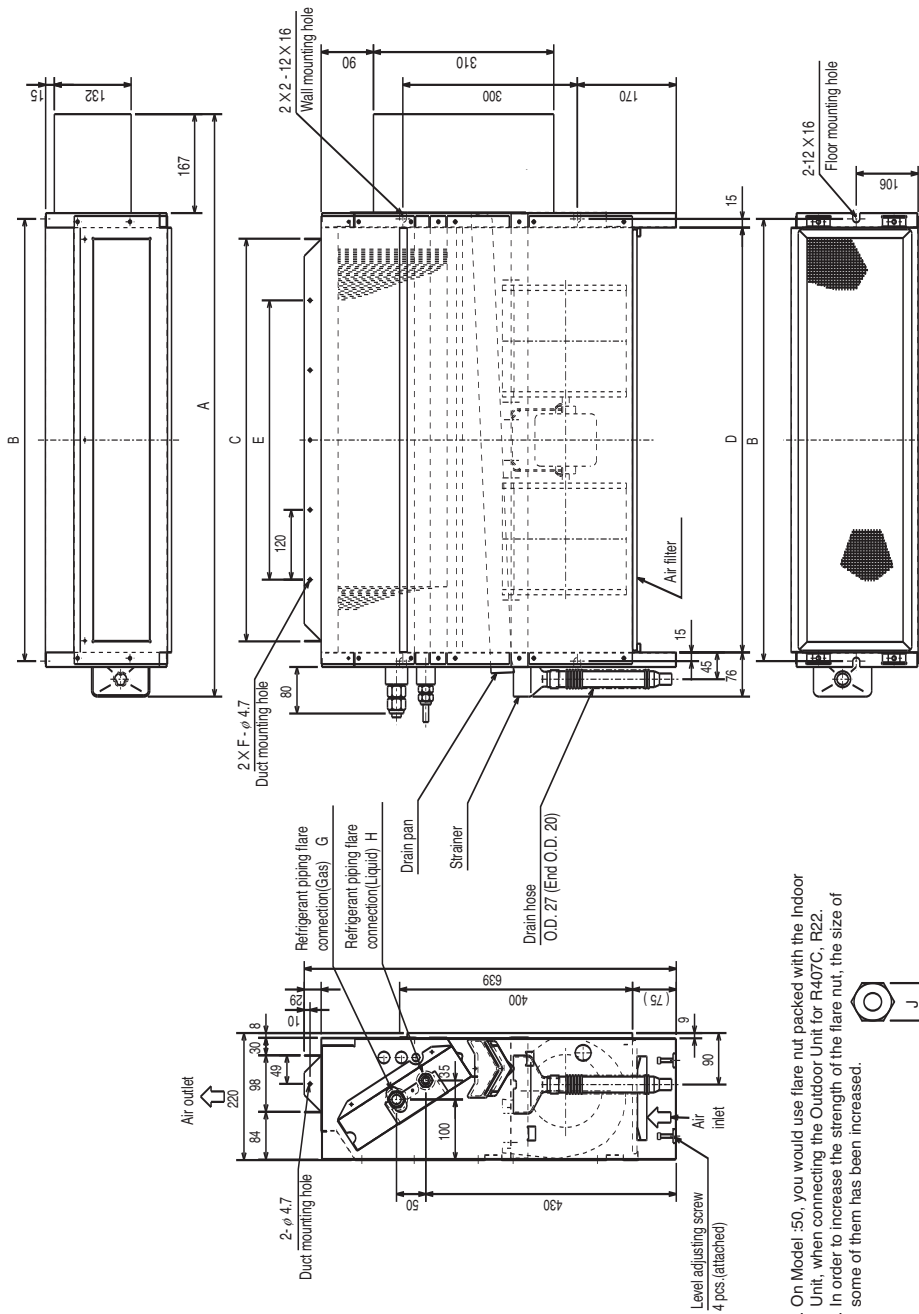
#### Dimensions

Model	A	B	C	D	E(Gas)	F(Liquid)	G(Liquid)	G(Gas)
PFFY-P20VLEM-E	1050	640	600	610	φ12.7	φ6.35	17	27
PFFY-P25VLEM-E	1050	640	600	610	φ12.7	φ6.35	17	27
PFFY-P32VLEM-E	1170	760	720	730	φ12.7	φ6.35	17	27
PFFY-P40VLEM-E	1170	760	720	730	φ12.7	φ6.35	17	27
PFFY-P50VLEM-E	1410	1000	960	970	*1 φ12.7	*1 φ6.35	*1 22	*1 29
PFFY-P63VLEM-E	1410	1000	960	970	*2 φ15.88	*2 φ9.52	*2 22	*2 29
					φ15.88	φ9.52	22	29

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

PFFY-P20,25,32,40,50,63VLRM-E

Drw. : IU-W65-3951  
Unit : mm



Note: 1. On Model :50, you would use flare nut packed with the Indoor Unit, when connecting the Outdoor Unit for R407C, R22.  
2. In order to increase the strength of the flare nut, the size of some of them has been increased.



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

Dimensions

Model	A	B	C	D	E	F	G (Gas)	H (Liquid)	J (Liquid)	J (Gas)
PFFY-P20VLRM-E	886	640	572	360	4	4	φ12.7	φ6.35	17	27
PFFY-P25VLRM-E	886	640	572	610	360	4	φ12.7	φ6.35	17	27
PFFY-P32VLRM-E	1006	760	692	730	480	5	φ12.7	φ6.35	17	27
PFFY-P40VLRM-E	1006	760	692	730	480	5	φ12.7	φ6.35	17	27
PFFY-P50VLRM-E	1246	1000	932	970	720	7	*1 φ12.7 *2 φ15.88	*1 φ6.35 *2 φ9.52	*1 22 *2 22	*1 29 *2 29
PFFY-P63VLRM-E	1246	1000	932	970	720	7	φ15.88	φ9.52	22	29

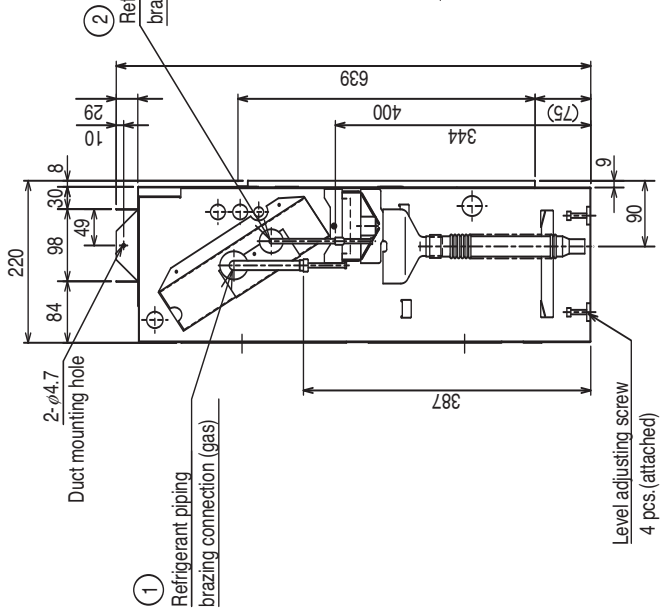
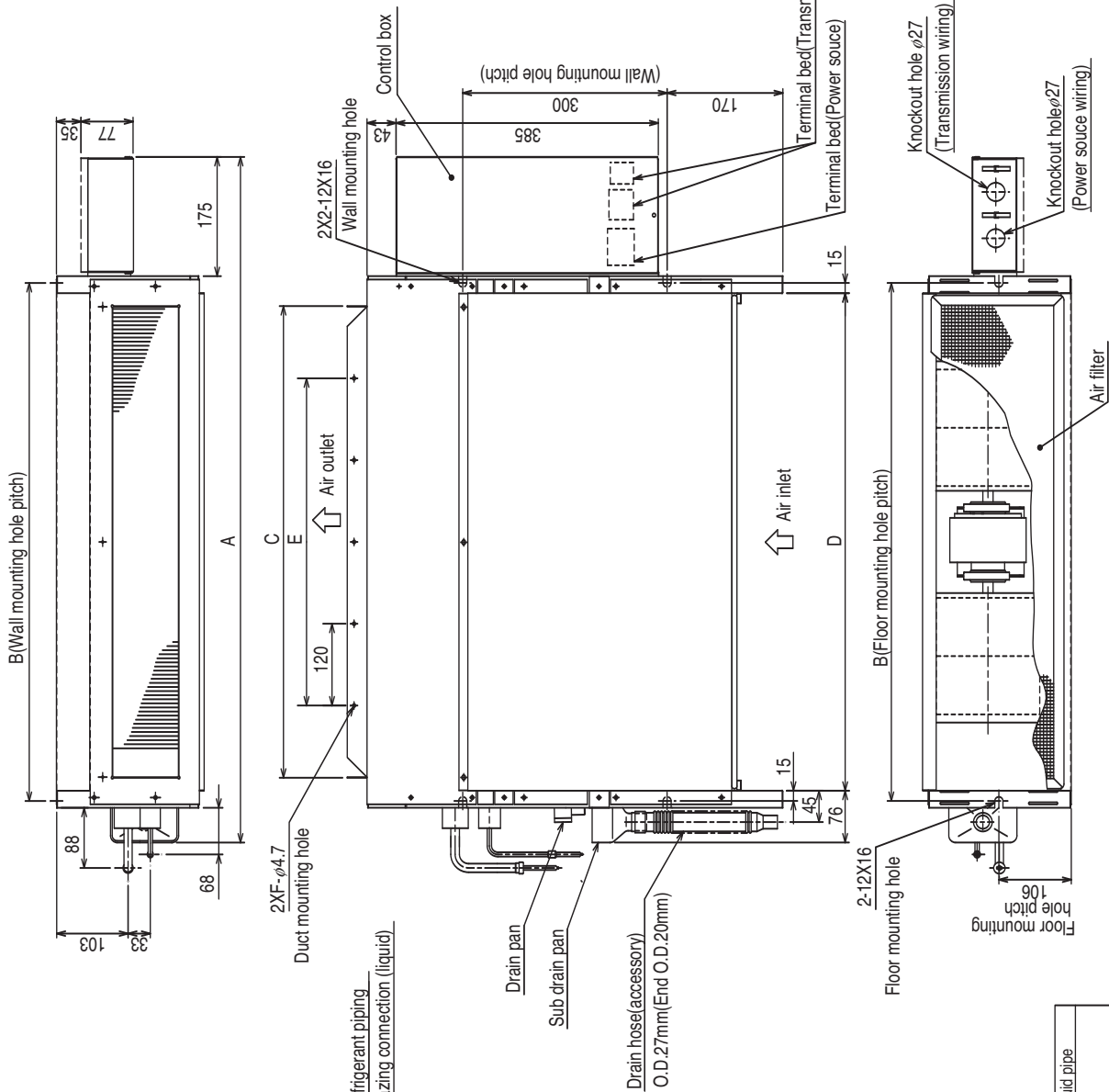
## 2. EXTERNAL DIMENSIONS

R410A Data G4

PFFY-P20,25,32,40,50,63VLRMM-E

Drw. : IU-KB94-L081

Unit : mm



Dimensions	Model	A	B	C	D	E	F	Gas pipe	Liquid pipe
	PFFY-P20VLRMM-E	886	640	572	610	360	4	φ12.7	φ6.35
	PFFY-P25VLRMM-E								
	PFFY-P32VLRMM-E	1006	760	692	730	480	5	φ15.88	φ9.52
	PFFY-P40VLRMM-E								
	PFFY-P50VLRMM-E	1246	1000	932	970	720	7		
	PFFY-P63VLRMM-E								

PFFY-P20,25,32,40VKM-E

Drw. : IU-RG79-V367

[LEGEND]

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
I. B	INDOOR CONTROLLER BOARD	MF1	FAN MOTOR (UPPER)	TH23	PIPE TEMP. DETECTION/GAS (0°C/15kΩ, 25°C/5.4kΩ)
CN32	CONNECTOR	MF2	FAN MOTOR (LOWER)	A. B	
CN51		MV1	VANE MOTOR	SW1	SWITCH
CN52		MV2	DAMPER MOTOR	SW11	MODE SELECTION
SW2	SWITCH	LS	DAMPER LIMIT SWITCH (CLOSE)	SW12	ADDRESS SETTING 1ST DIGIT
SW3		LEV	LINEAR EXPANSION VALVE	SW14	ADDRESS SETTING 2ND DIGIT
SW4		TB2	TERMINAL BLOCK	SWC	CONNECTION NO.
ZNR	VARIATOR	TB5	TERMINAL BLOCK	SWC	AIR OUTLET SELECTION
FUSE	FUSE (T6.3AL250V)	TH21	THERMISTOR		
LED1	POWER SUPPLY (I.B)	TH22	THERMISTOR		
LED2	POWER SUPPLY (I.B)				

NOTES

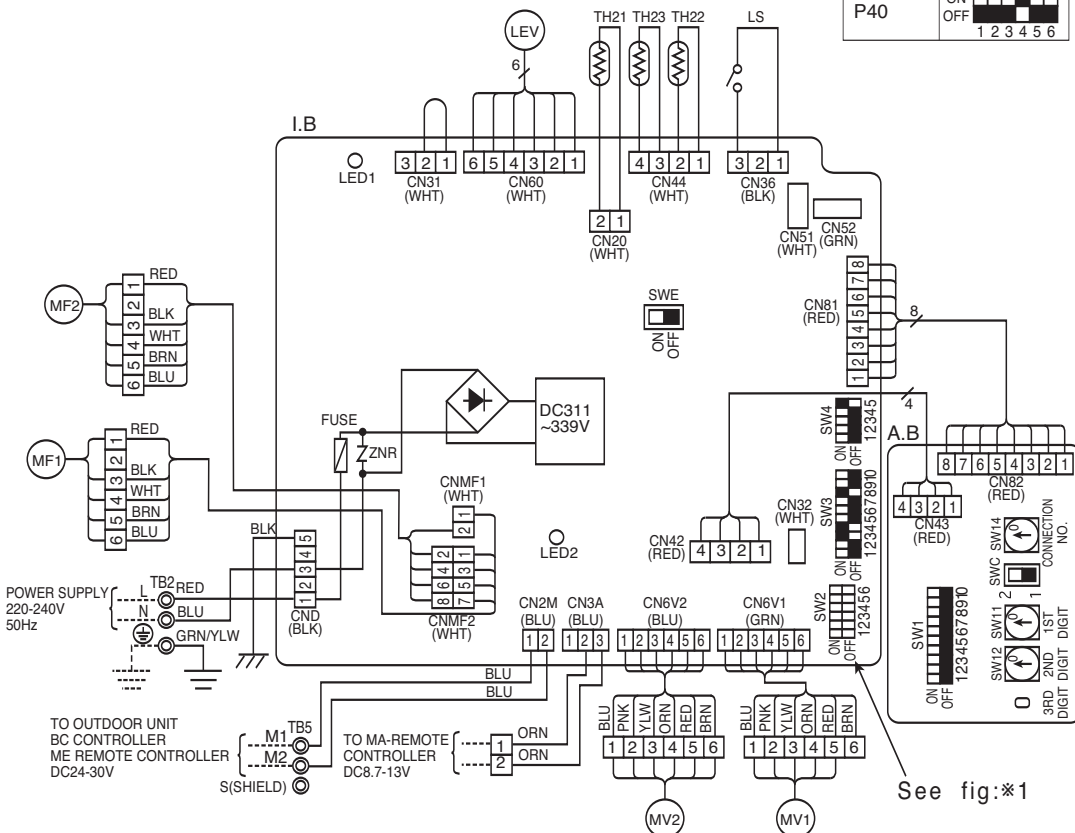
- At servicing for outdoor unit, always follow the wiring diagram of outdoor unit.
- In case of connecting MA-Remote controller, please connect MA remote controller cable in an accessory to the connector [1|2]. (Remote controller wire is non-polar.)
- In case of using M-NET, please connect to TB5. (Transmission line is non-polar.)
- Symbol [S] of TB5 is the shield wire connection.
- Symbols used in wiring diagram above are, ⊙: terminal block, □□□: connector.
- The setting of the SW2 dip switches differs in the capacity for the detail, refer to the fig.\*1.

LED on indoor board for service

MARK	MEANING	FUNCTION
LED1	Main power supply	Main power supply (Indoor unit:220-240V) power on lamp is lit
LED2	Power supply for MA-Remote controller	Power supply for MA-remote controller on lamp is lit

<fig.\*1>

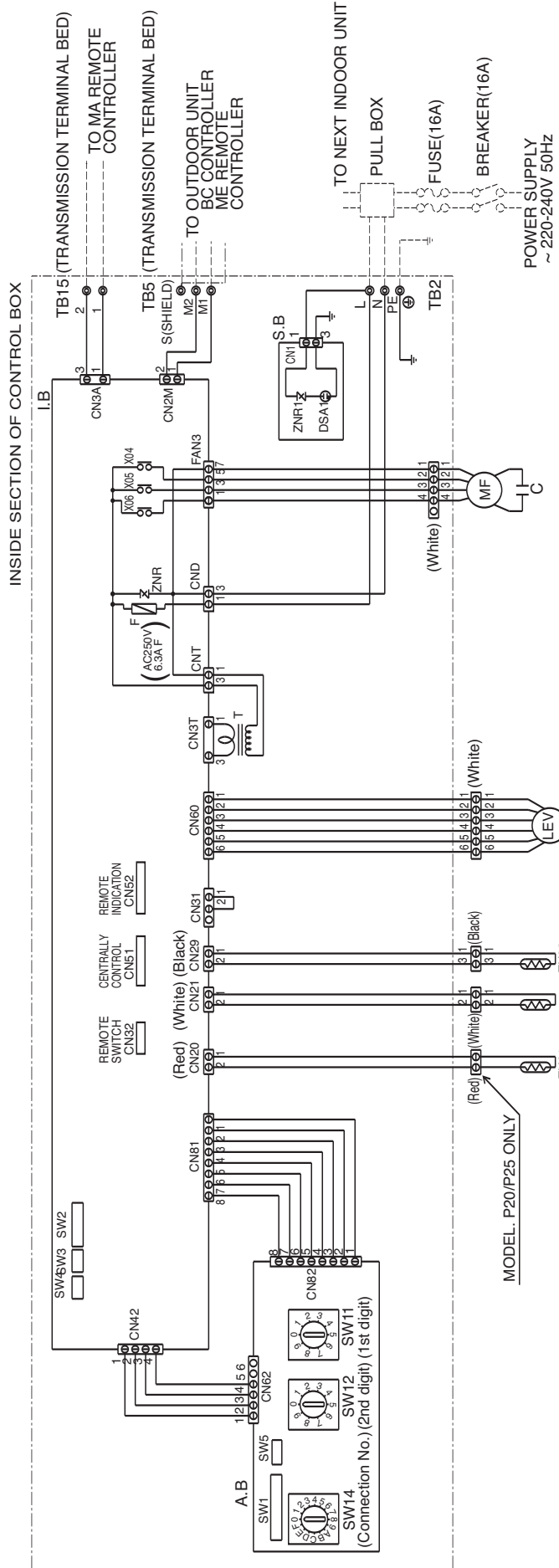
MODELS	SW2
P20	ON OFF  1 2 3 4 5 6
P25	ON OFF  1 2 3 4 5 6
P32	ON OFF  1 2 3 4 5 6
P40	ON OFF  1 2 3 4 5 6



See fig.\*1

## PFFY-P20,25,32,40,50,63VLEM-E,VLRM-E

Draw. : IU-W65-3960



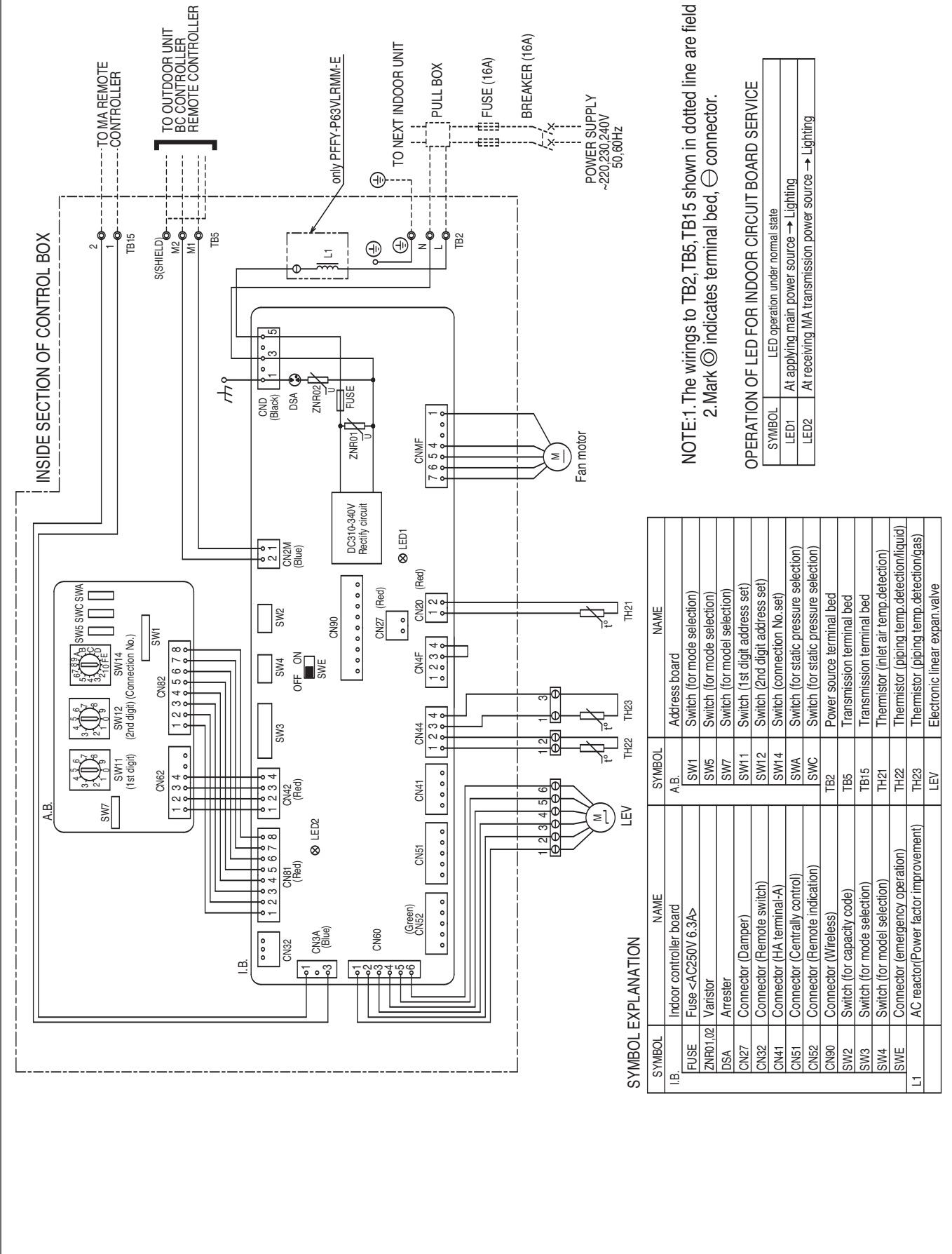
SYMBOL EXPLANATION

SYMBOL	NAME	SYMBOL	NAME
MF	Fan motor	TH22	Thermistor (piping temp.detection/liquid)
C	*Capacitor (for MF)	TH23	Thermistor (piping temp.detection/gas)
I. B	Indoor controller board	SW11 (A. B)	Switch (1st digit address set)
A. B	Address board	SW12 (A. B)	Switch (2nd digit address set)
TB2	Power source terminal bed	SW14 (A. B)	Switch (connection No.set)
TB5	Transmission terminal bed	SW1 (A. B)	Switch(for mode selection)
TB15	Transmission terminal bed	SW2 (I. B)	Switch(for capacity code)
F	Fuse AC250V 6.3A F	SW3 (I. B)	Switch(for mode selection)
T	Transformer	SW4 (I. B)	Switch(for model selection)
LEV	Electronic linear expan. valve	SW5 (A. B)	Switch(for voltage selection)
S. B	Surge absorber board	X04~06	Aux.relay
TH21	Thermistor (inlet temp.detection)		

\*Capacitor  
 MODELS 20/25/32/40 1.5 F  
 MODEL 50 2.0 F  
 MODEL 63 2.5 F

## PFFY-P20,25,32,40,50,63VLRMM-E

Drw. : IU-KB94-G985



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

### OPERATION OF LED FOR INDOOR CIRCUIT BOARD SERVICE

SYMBOL	LED operation under normal state
LED1	At applying main power source → Lighting
LED2	At receiving MA transmission power source → Lighting

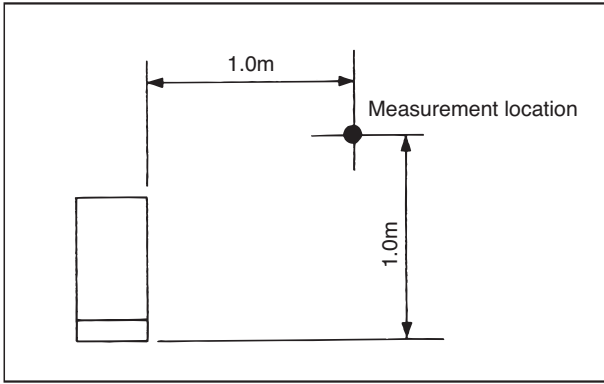
### SYMBOL EXPLANATION

SYMBOL	NAME	SYMBOL	NAME
I.B.	Indoor controller board	A.B.	Address board
FUSE	Fuse <AC250V 6.3A>	SW1	Switch (for mode selection)
ZNR01,02	Variistor	SW5	Switch (for mode selection)
DSA	Arrester	SW7	Switch (for mode selection)
CN27	Connector (Damper)	SW11	Switch (1st digit address set)
CN32	Connector (Remote switch)	SW12	Switch (2nd digit address set)
CN38	Connector (HA terminal-A)	SW14	Switch (connection No. set)
CN51	Connector (Centrally control)	SWA	Switch (for static pressure selection)
CN52	Connector (Remote indication)	SWC	Switch (for static pressure selection)
CN90	Connector (Wireless)	TB2	Power source terminal bed
SW2	Switch (for capacity code)	TB5	Transmission terminal bed
SW3	Switch (for mode selection)	TB15	Transmission terminal bed
SW4	Switch (for model selection)	TH21	Thermistor (inlet air temp.detection)
SWE	Connector (emergency operation)	TH22	Thermistor (piping temp.detection/liquid)
L1	AC reactor(Power factor improvement)	TH23	Thermistor (piping temp.detection/gas)
		LEV	Electronic linear expan.valve

# 4. SOUND LEVELS

## 4-1. Sound levels

PFFY-P-VKM-E, VLEM-E, VLRM-E

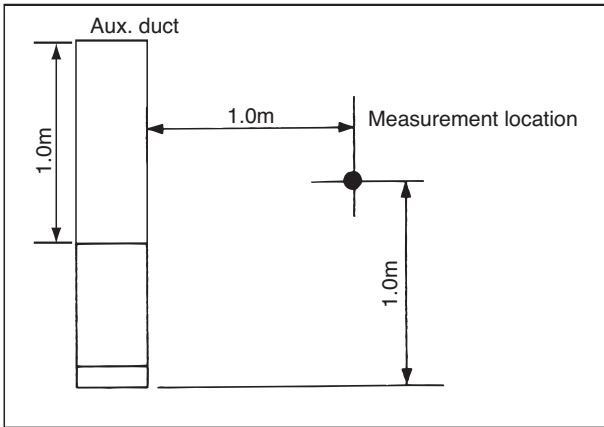


\* Measured in anechoic room.

Sound level at anechoic room : Low-High

	Sound level dB (A)
PFFY-P20VKM-E	27-31-34-37
PFFY-P25VKM-E	28-32-35-38
PFFY-P32VKM-E	28-32-35-38
PFFY-P40VKM-E	35-38-42-44
PFFY-P20VLEM-E	34-40
PFFY-P20VLRM-E	
PFFY-P25VLEM-E	
PFFY-P25VLRM-E	35-40
PFFY-P32VLEM-E	
PFFY-P32VLRM-E	38-43
PFFY-P40VLEM-E	
PFFY-P40VLRM-E	
PFFY-P50VLEM-E	40-46
PFFY-P50VLRM-E	
PFFY-P63VLEM-E	
PFFY-P63VLRM-E	

PFFY-P-VLRMM-E

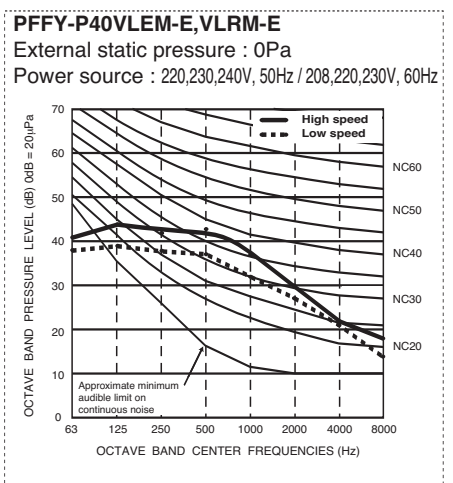
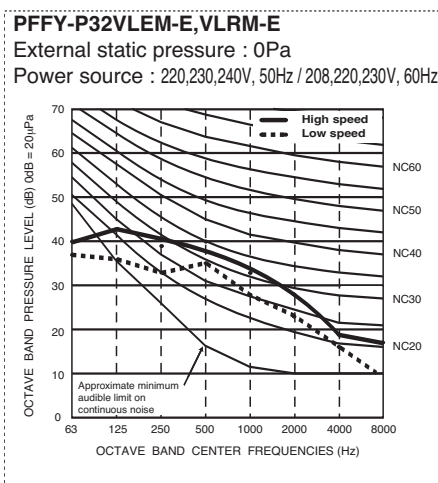
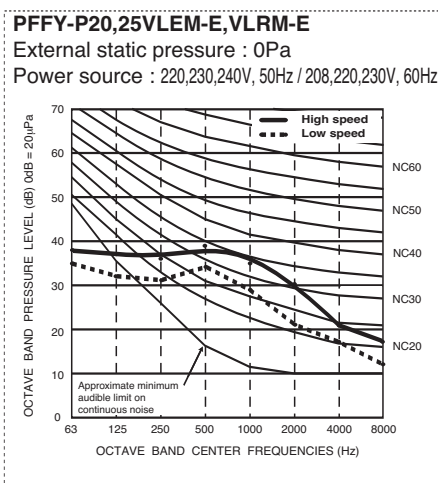
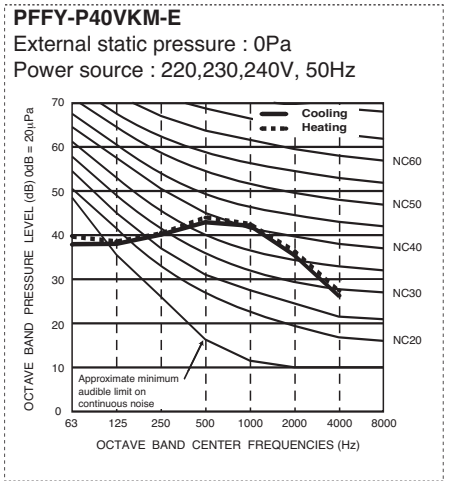
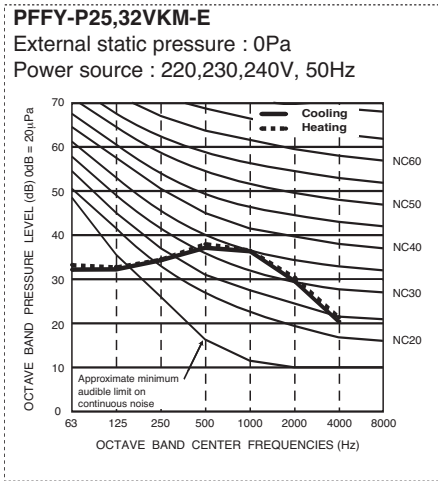
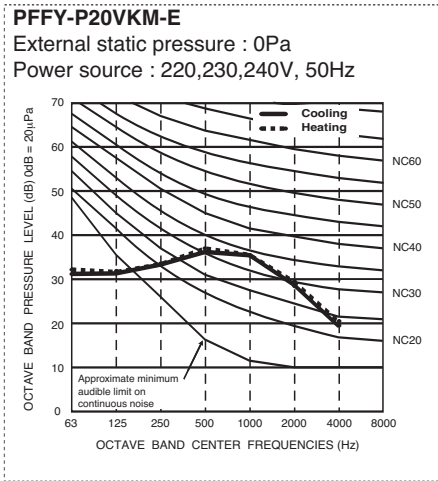


\* Measured in anechoic room.

Sound level at anechoic room : Low-middle-High

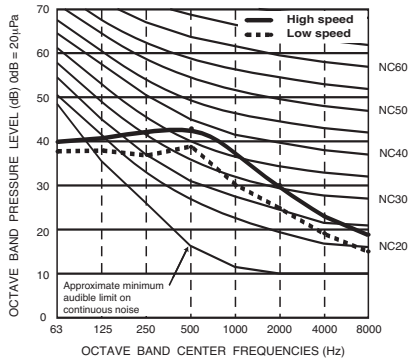
	Sound level dB (A)		
	20Pa	40Pa	60Pa
PFFY-P20VLRMM-E	31-36-40	34-39-42	35-40-43
PFFY-P25VLRMM-E	31-36-40	34-39-42	35-40-43
PFFY-P32VLRMM-E	27-32-37	30-35-41	32-37-42
PFFY-P40VLRMM-E	30-36-40	32-38-42	35-39-44
PFFY-P50VLRMM-E	32-37-41	35-40-44	36-41-45
PFFY-P63VLRMM-E	35-40-44	36-42-47	38-43-48

## 4-2. NC curves

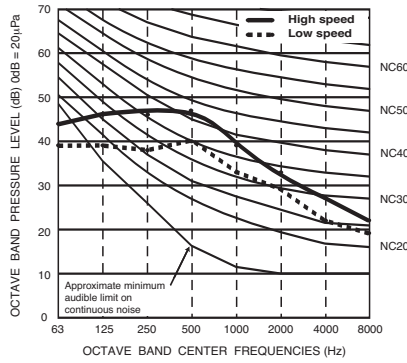


## 4-2. NC curves

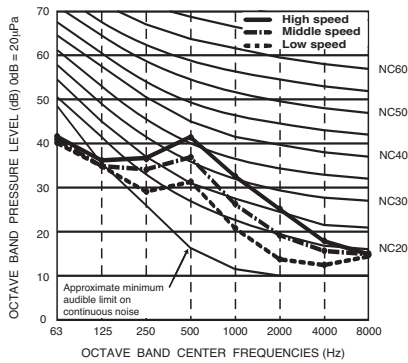
**PFFY-P50VLEM-E, VLRM-E**  
 External static pressure : 0Pa  
 Power source : 220,230,240V, 50Hz / 208,220,230V, 60Hz



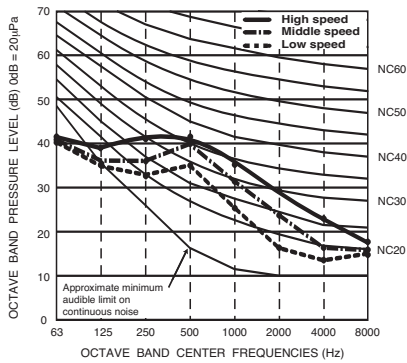
**PFFY-P63VLEM-E, VLRM-E**  
 External static pressure : 0Pa  
 Power source : 220,230,240V, 50Hz / 208,220,230V, 60Hz



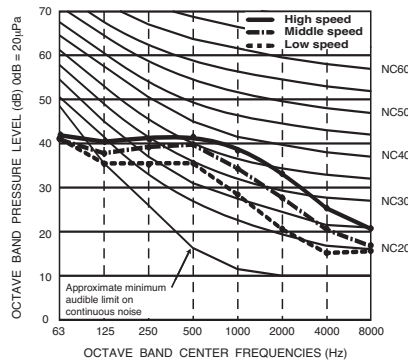
**PFFY-P20,25VLRMM-E**  
 External static pressure : 20Pa  
 Power source : 220,230,240V, 50/60Hz



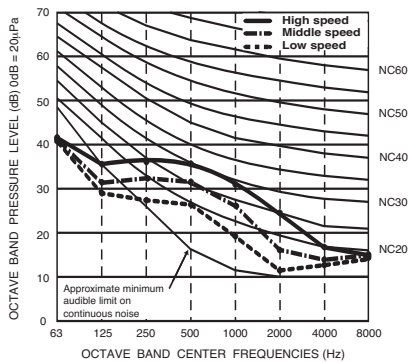
**PFFY-P20,25VLRMM-E**  
 External static pressure : 40Pa  
 Power source : 220,230,240V, 50/60Hz



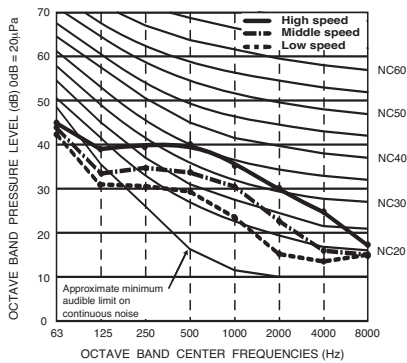
**PFFY-P20,25VLRMM-E**  
 External static pressure : 60Pa  
 Power source : 220,230,240V, 50/60Hz



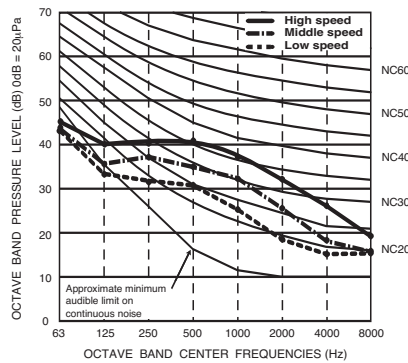
**PFFY-P32VLRMM-E**  
 External static pressure : 20Pa  
 Power source : 220,230,240V, 50/60Hz



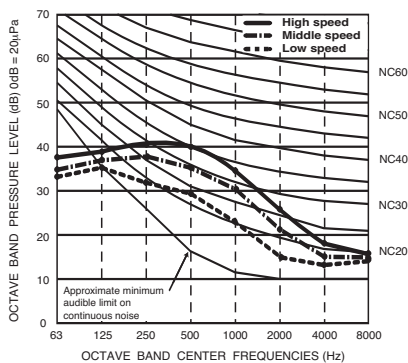
**PFFY-P32VLRMM-E**  
 External static pressure : 40Pa  
 Power source : 220,230,240V, 50/60Hz



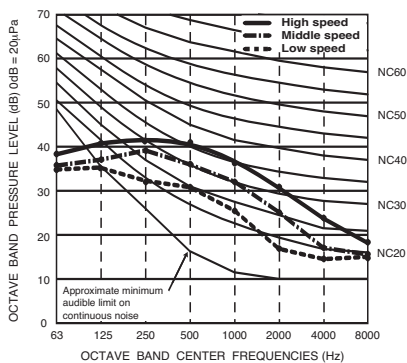
**PFFY-P32VLRMM-E**  
 External static pressure : 60Pa  
 Power source : 220,230,240V, 50/60Hz



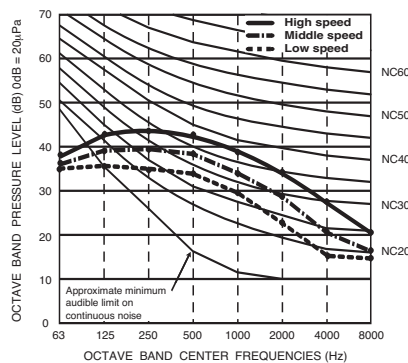
**PFFY-P40VLRMM-E**  
 External static pressure : 20Pa  
 Power source : 220,230,240V, 50/60Hz



**PFFY-P40VLRMM-E**  
 External static pressure : 40Pa  
 Power source : 220,230,240V, 50/60Hz



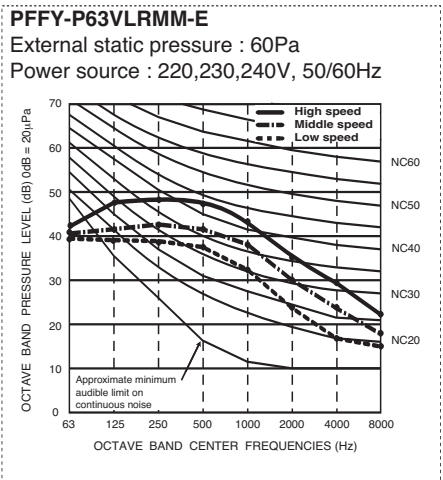
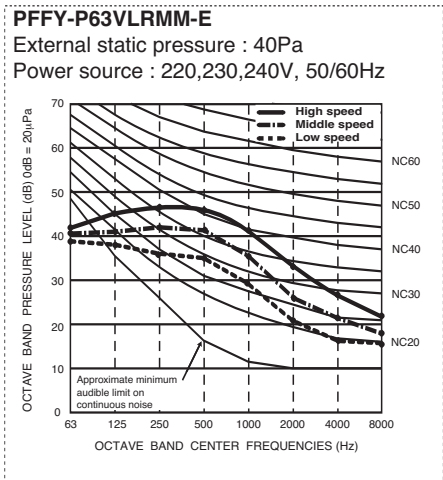
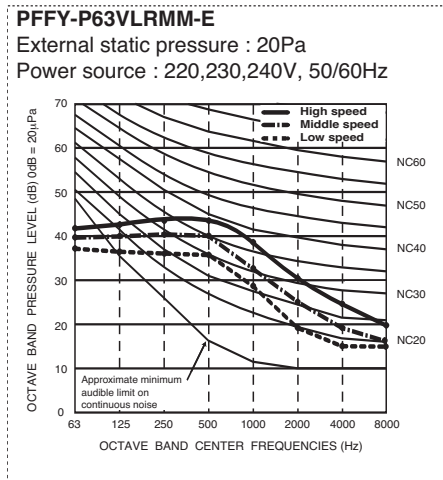
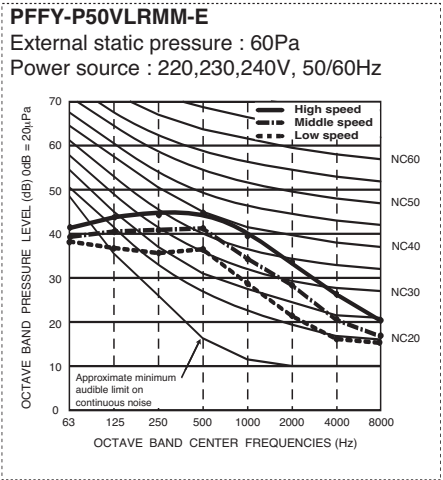
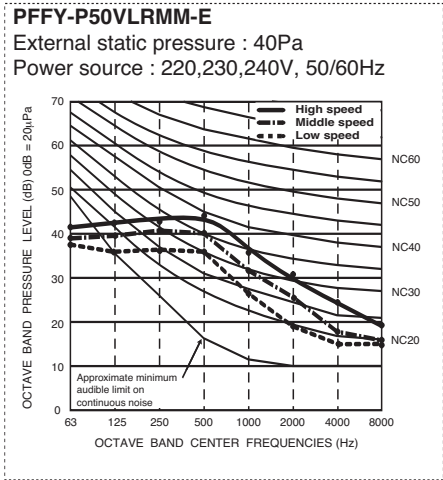
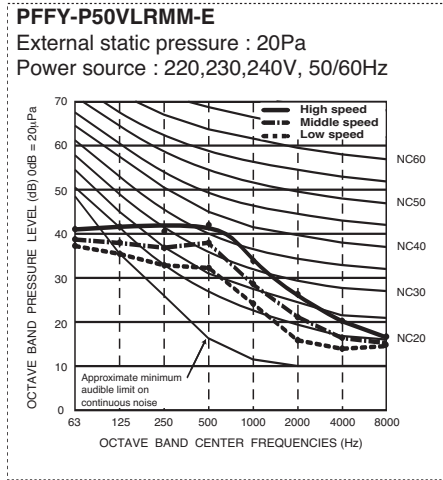
**PFFY-P40VLRMM-E**  
 External static pressure : 60Pa  
 Power source : 220,230,240V, 50/60Hz





# 4. SOUND LEVELS

## 4-2. NC curves

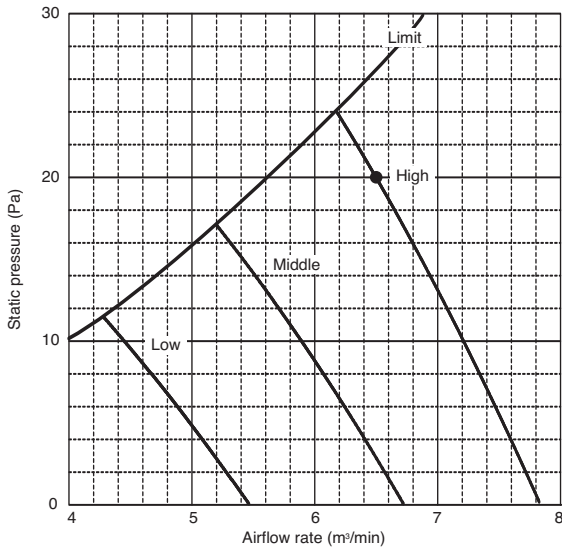


# 4. SOUND LEVELS

## 4-3. Fan characteristics curves

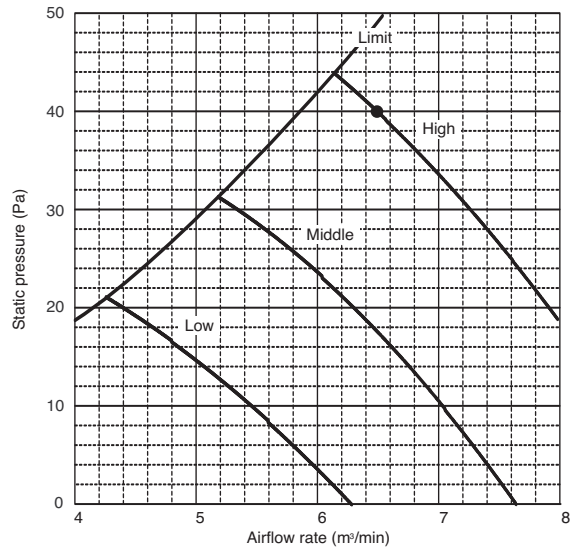
### PFFY-P20,25VLRMM-E

External static pressure : 20Pa  
Power source : 220,230,240V, 50/60Hz



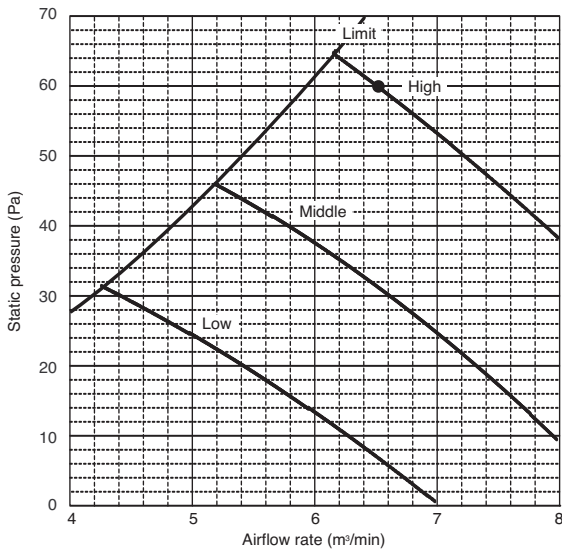
### PFFY-P20,25VLRMM-E

External static pressure : 40Pa  
Power source : 220,230,240V, 50/60Hz



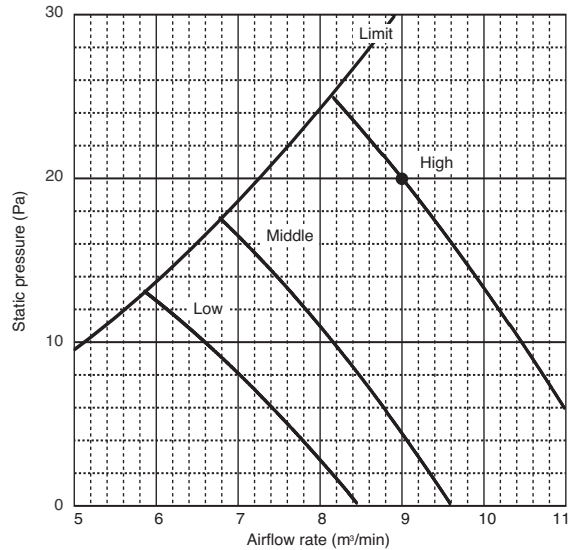
### PFFY-P20,25VLRMM-E

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



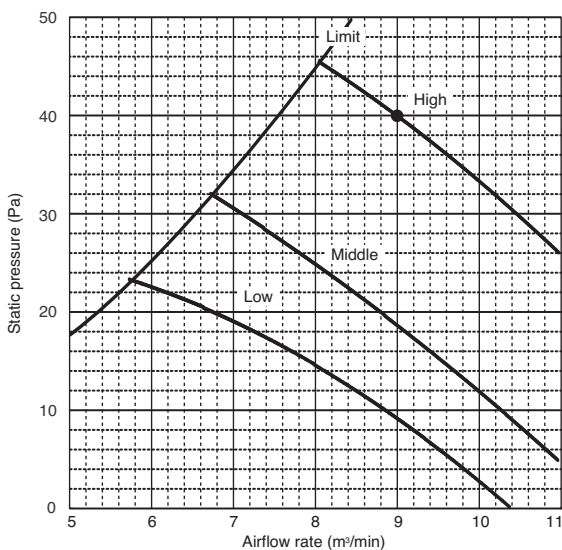
### PFFY-P32VLRMM-E

External static pressure : 20Pa  
Power source : 220,230,240V, 50/60Hz



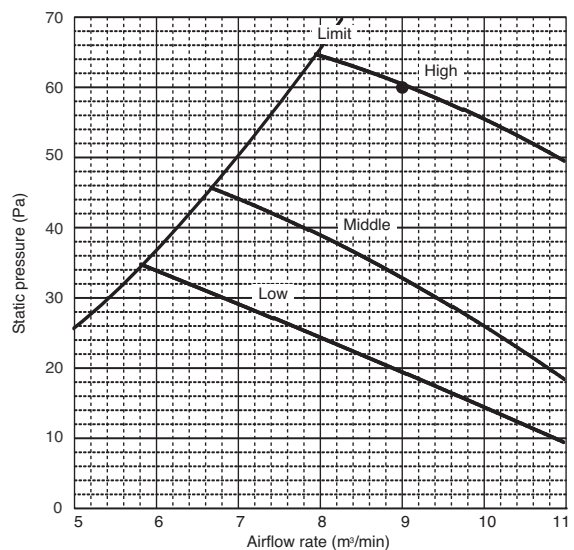
### PFFY-P32VLRMM-E

External static pressure : 40Pa  
Power source : 220,230,240V, 50/60Hz



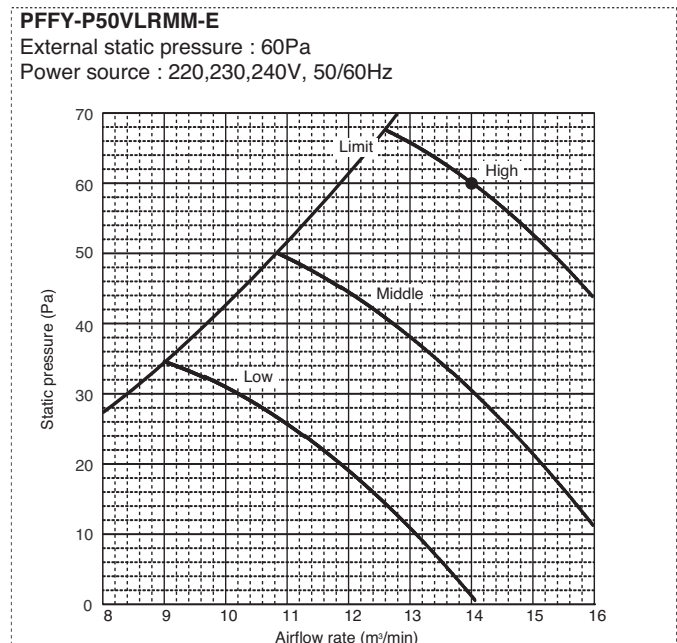
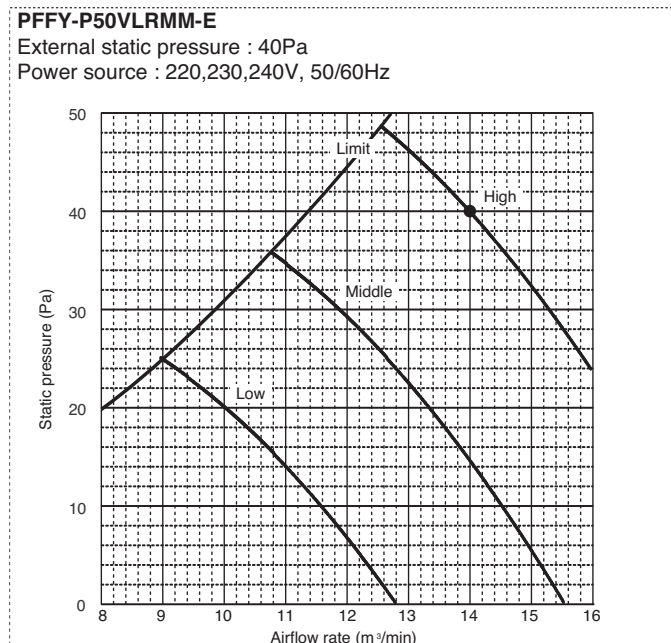
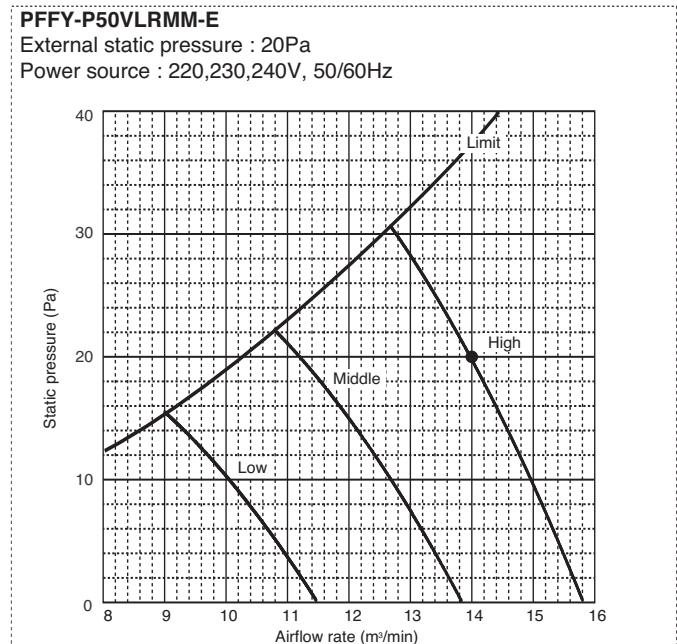
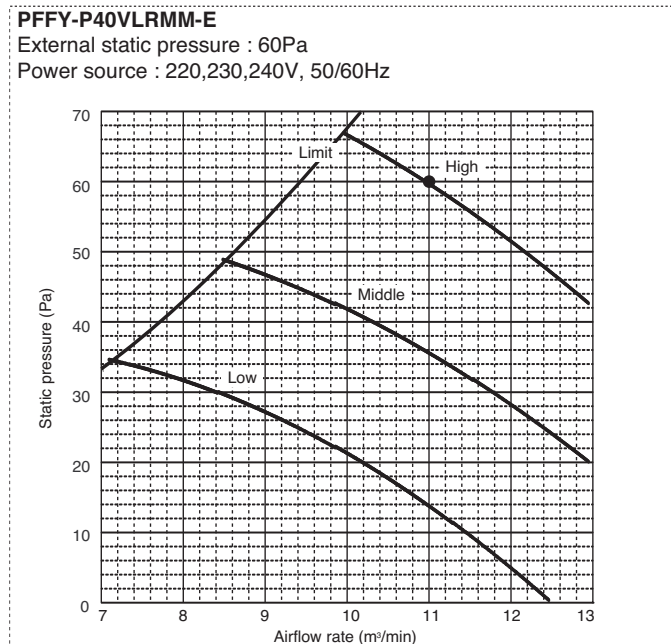
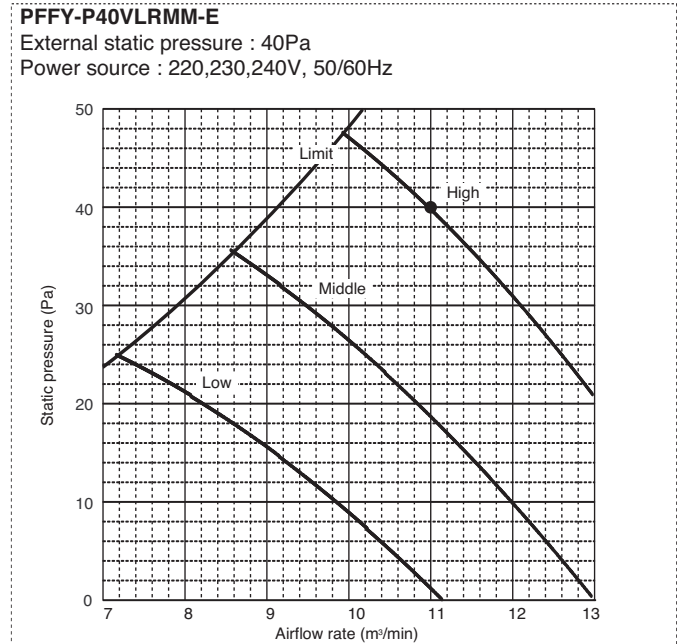
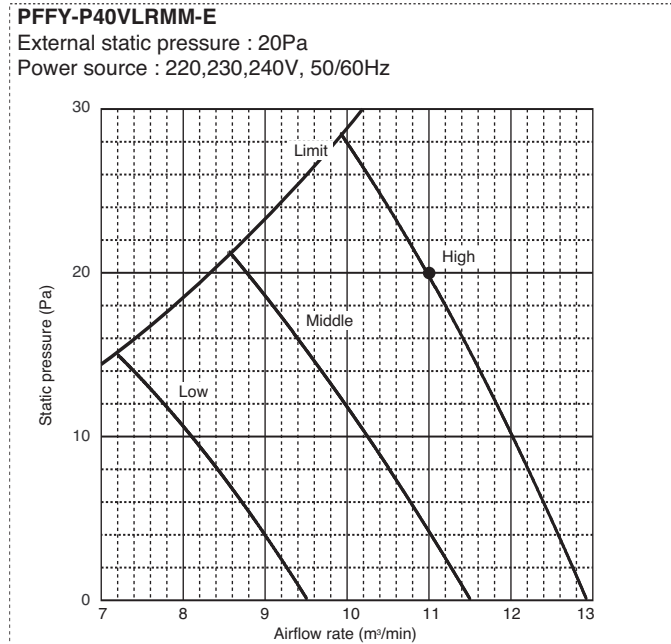
### PFFY-P32VLRMM-E

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



# 4. SOUND LEVELS

## 4-3. Fan characteristics curves



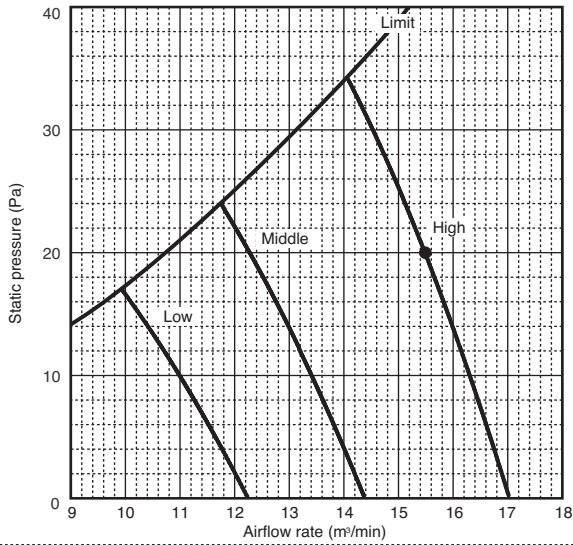
# 4. SOUND LEVELS

## 4-3. Fan characteristics curves

### PFFY-P63VLRMM-E

External static pressure : 20Pa

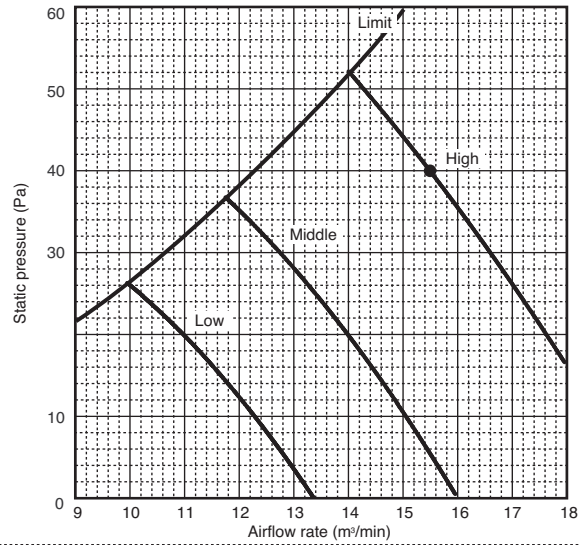
Power source : 220,230,240V, 50/60Hz



### PFFY-P63VLRMM-E

External static pressure : 40Pa

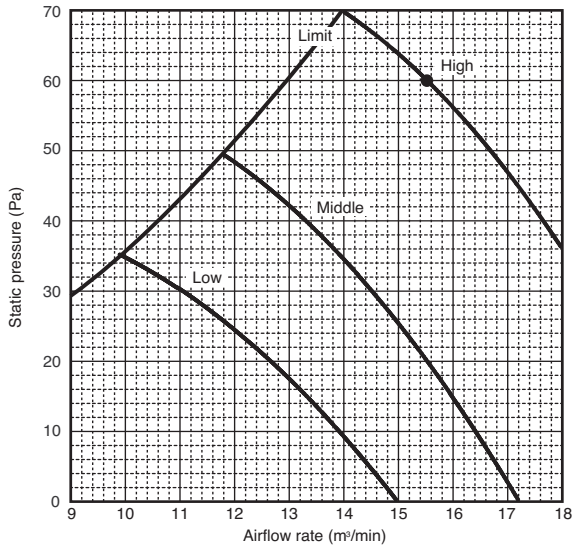
Power source : 220,230,240V, 50/60Hz



### PFFY-P63VLRMM-E

External static pressure : 60Pa

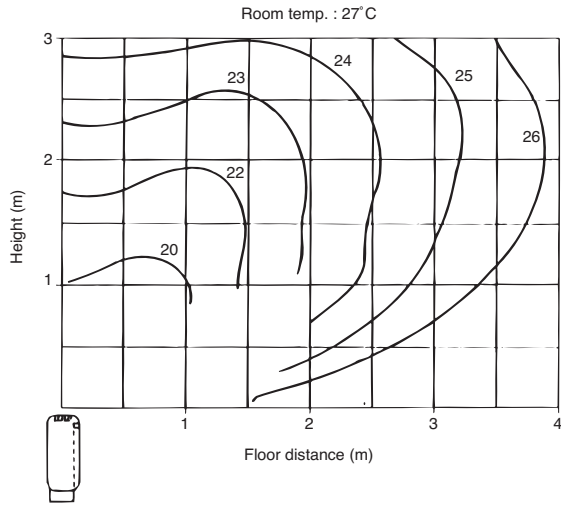
Power source : 220,230,240V, 50/60Hz



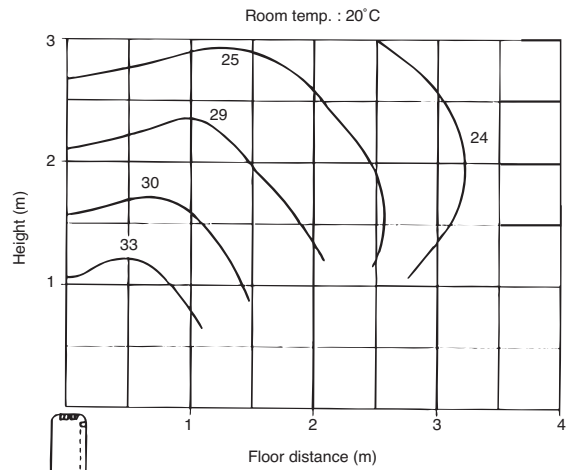
## 5-1. Temperature distributions

PFFY-P-VLEM-E,VLRM-E

<Cooling mode>

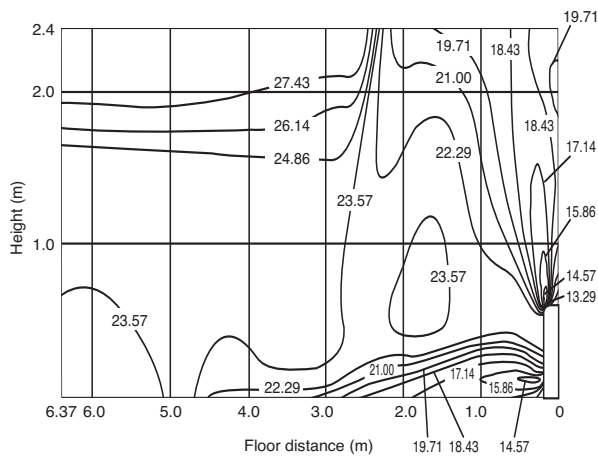


<Heating mode>

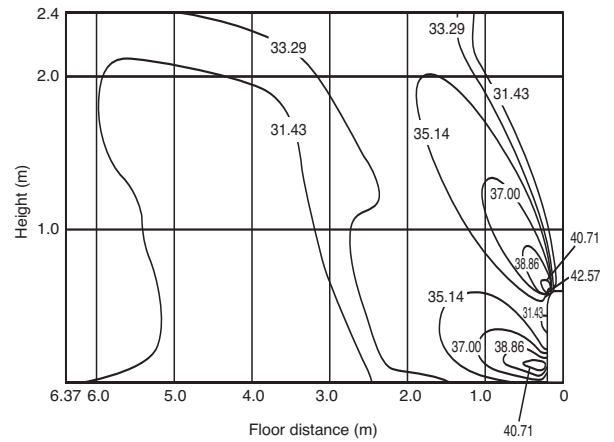


PFFY-P-VKM-E

<Cooling mode>



<Heating mode>

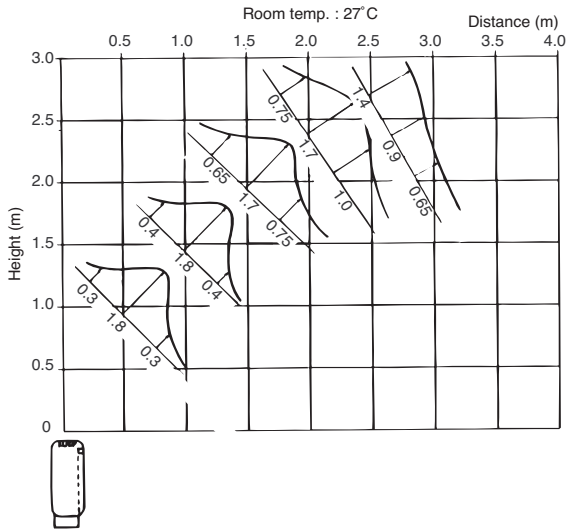


Note : These figures show typical temperature distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

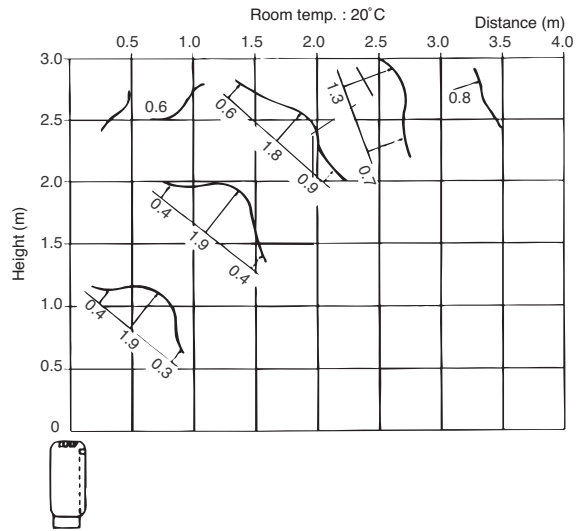
## 5-2. Airflow distributions

PFFY-P-VLEM-E,VLRM-E

<Cooling mode>

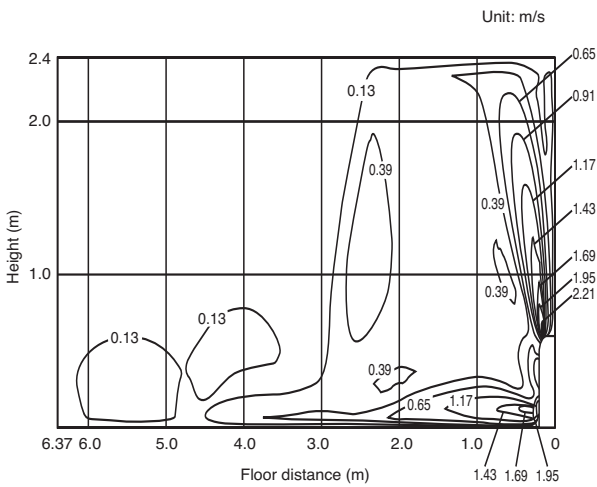


<Heating mode>

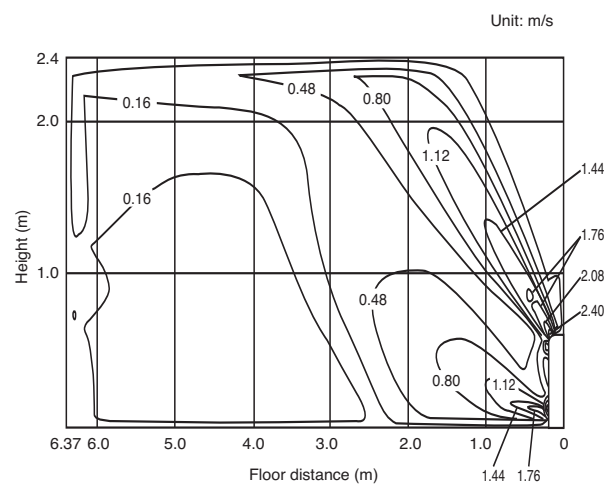


PFFY-P-VKM-E

<Cooling mode>



<Heating mode>



Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.