PLFY-P-VFM-E, PLFY-P-VBM-E

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1. SPECIFICATIONS

Model			PLFY-P15VFM-E	PLFY-P20VFM-E	PLFY-P25VFM-E
Power source			1-phase 220-230-240V 50Hz/220V 60Hz		
Cooling capacity (Nominal)	*1	kW	1.7	2.2	2.8
	*1	kcal / h	1,450	1,900	2,400
	*1	BTU / h	5,800	7,500	9,600
	*2	kcal / h	1,500	2,000	2,500
	Power input	kW	0.02	0.02	0.02
	Current input	A	0.19	0.21	0.22
Heating capacity (Nominal)	*3	kW	1.9	2.5	3.2
	*3	kcal / h	1,600	2,200	2,800
	*3	BTU / h	6,500	8,500	10,900
	Power input	kW	0.02	0.02	0.02
	Current input	A	0.14	0.16	0.17
External finish			Galvanized steel sheet		
External dimension H x W x D		mm	208 x 570 x 570	208 x 570 x 570	208 x 570 x 570
		in.	8-1/4 x 22-1/2 x 22-1/2	8-1/4 x 22-1/2 x 22-1/2	8-1/4 x 22-1/2 x 22-1/2
Net weight		kg (lbs)	14 (31)	14 (31)	14 (31)
Decoration panel	Model		**SLP-2FA(L)(E)**	**SLP-2FA(L)(E)**	**SLP-2FA(L)(E)**
	External finish		Galvanized steel sheet		
	Dimension	mm	10 x 625 x 625	10 x 625 x 625	10 x 625 x 625
	H x W x D	in.	3/8 x 24-5/8 x 24-5/8	3/8 x 24-5/8 x 24-5/8	3/8 x 24-5/8 x 24-5/8
	Net Weight	kg (lbs)	3 (7)	3 (7)	3 (7)
Heat exchanger			Cross fin (Aluminum fin and copper tube)		
FAN	Type x Quantity		Turbo fan x 1		
	External static press.		0Pa (0mmH_2O)	0Pa (0mmH_2O)	0Pa (0mmH_2O)
	Motor type		DC motor		
	Motor output	kW	0.05	0.05	0.05
	Driving mechanism		Direct-driven		
	Airflow rate		(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
		m^3 / min	6.5-7.5-8.0	6.5-7.5-8.5	6.5-8.0-9.0
		L / s	108-125-133	108-125-142	108-133-150
		cfm	230-265-282	230-265-300	230-282-318
Sound pressure level (measured in anechoic room)		dB <A>	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
			26-28-30	26-29-31	26-30-33
Insulation material			PS		
Air filter			PP honeycomb fabric (long life type)		
Protection device			Fuse		
Refrigerant control device			LEV		
Connectable outdoor unit			R410A CITY MULTI		
Diameter of refrigerant pipe	Liquid	mm (in.)	ø6.35 (ø1/4) Flare	ø6.35 (ø1/4) Flare	ø6.35 (ø1/4) Flare
	Gas	mm (in.)	ø12.7 (ø1/2) Flare	ø12.7 (ø1/2) Flare	ø12.7 (ø1/2) Flare
Field drain pipe size		mm (in.)	O.D. 32 (1-1/4) (PVC pipe VP-25 connectable)		
Standard attachment			Installation manual, Instruction book		
Remark	Optional parts				
	Decoration panel		SLP-2FA/SLP-2FAE/SLP-2FAL/SLP-2FALE		
			*PLFY-P-VFM-E should be used together with Decoration panel.		
	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 condition	*2 Nominal cooling condition	*3 Nominal heating condition
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
lbs = kg / 0.4536

*Above specification data is subject to rounding variation.

Model			PLFY-P32VFM-E	PLFY-P40VFM-E	PLFY-P50VFM-E
Power source			1-phase 220-230-240V 50Hz/220V 60Hz		
Cooling capacity (Nominal)	*1	kW	3.6	4.5	5.6
	*1	kcal / h	3,100	3,900	4,800
	*1	BTU / h	12,300	15,400	19,100
	*2	kcal / h	3,150	4,000	5,000
	Power input	kW	0.02	0.03	0.04
	Current input	A	0.23	0.28	0.40
Heating capacity (Nominal)	*3	kW	4.0	5.0	6.3
	*3	kcal / h	3,400	4,300	5,400
	*3	BTU / h	13,600	17,100	21,500
	Power input	kW	0.02	0.03	0.04
	Current input	A	0.18	0.23	0.35
External finish			Galvanized steel sheet		
External dimension H x W x D		mm	208 x 570 x 570	208 x 570 x 570	208 x 570 x 570
		in.	8-1/4 x 22-1/2 x 22-1/2	8-1/4 x 22-1/2 x 22-1/2	8-1/4 x 22-1/2 x 22-1/2
Net weight		kg (lbs)	15 (33)	15 (33)	15 (33)
Decoration panel	Model		**SLP-2FA(L)(E)**	**SLP-2FA(L)(E)**	**SLP-2FA(L)(E)**
	External finish		Galvanized steel sheet		
	Dimension	mm	10 x 625 x 625	10 x 625 x 625	10 x 625 x 625
	H x W x D	in.	3/8 x 24-5/8 x 24-5/8	3/8 x 24-5/8 x 24-5/8	3/8 x 24-5/8 x 24-5/8
	Net Weight	kg (lbs)	3 (7)	3 (7)	3 (7)
Heat exchanger			Cross fin (Aluminum fin and copper tube)		
FAN	Type x Quantity		Turbo fan x 1		
	External static press.		0Pa (0mmH_2O)	0Pa (0mmH_2O)	0Pa (0mmH_2O)
	Motor type		DC motor		
	Motor output	kW	0.05	0.05	0.05
	Driving mechanism		Direct-driven		
	Airflow rate		(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
		m^3 / min	7.0-8.0-9.5	7.5-9.0-11.0	9.0-11.0-13.0
		L / s	117-133-158	125-150-183	150-183-217
		cfm	247-282-335	265-318-388	318-388-459
Sound pressure level (measured in anechoic room)		dB <A>	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
			26-30-34	28-33-39	33-39-43
Insulation material			PS		
Air filter			PP honeycomb fabric (long life type)		
Protection device			Fuse		
Refrigerant control device			LEV		
Connectable outdoor unit			R410A CITY MULTI		
Diameter of refrigerant pipe	Liquid	mm (in.)	ø6.35 (ø1/4) Flare	ø6.35 (ø1/4) Flare	ø6.35 (ø1/4) Flare
	Gas	mm (in.)	ø12.7 (ø1/2) Flare	ø12.7 (ø1/2) Flare	ø12.7 (ø1/2) Flare
Field drain pipe size		mm (in.)	O.D. 32 (1-1/4) (PVC pipe VP-25 connectable)		
Standard attachment			Installation manual, Instruction book		
Remark	Optional parts				
	Decoration panel		SLP-2FA/SLP-2FAE/SLP-2FAL/SLP-2FALE		
			*PLFY-P-VFM-E should be used together with Decoration panel.		
	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 condition
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 condition
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 condition
20°CDB (68°FDB)
7°CDB/6°CWB (45°FDB/43°FWB)
7.5 m (24-9/16 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
lbs = kg / 0.4536

*Above specification data is subject to rounding variation.

PLFY-VFM/VBM

1. SPECIFICATIONS

Model			PLFY-P20VBM-E	PLFY-P25VBM-E	PLFY-P32VBM-E	PLFY-P40VBM-E
Power source			1-phase 220-240V 50Hz, 1-phase 220V 60Hz			
Cooling capacity (Nominal)	*1	kW	2.2	2.8	3.6	4.5
	*1	kcal / h	1,900	2,400	3,100	3,900
	*1	BTU / h	7,500	9,600	12,300	15,400
	*2	kcal / h	2,000	2,500	3,150	4,000
*4	Power input	kW	0.03	0.03	0.03	0.04
*4	Current input	A	0.26	0.26	0.27	0.29
Heating capacity (Nominal)	*3	kW	2.5	3.2	4.0	5.0
	*3	kcal / h	2,200	2,800	3,400	4,300
	*3	BTU / h	8,500	10,900	13,600	17,100
*4	Power input	kW	0.02	0.02	0.02	0.03
*4	Current input	A	0.19	0.19	0.20	0.22
External finish			Galvanized steel sheet			
External dimension H x W x D		mm	258 x 840 x 840			
		in.	10-3/16 x 33-1/8 x 33-1/8			
Net weight		kg (lbs)	22 (49)	22 (49)	22 (49)	22 (49)
Decoration panel	Model		**PLP-6BA**	**PLP-6BA**	**PLP-6BA**	**PLP-6BA**
	External finish		MUNSELL (6.4Y 8.9/0.4)			
	Dimension H x W x D	mm	35 x 950 x 950			
		in.	1-3/8 x 37-7/16 x 37-7/16			
	Net weight	kg (lbs)	6 (13)			
Heat exchanger			Cross fin (Aluminum fin and copper tube)			
FAN	Type x Quantity		Turbo fan x 1	Turbo fan x 1	Turbo fan x 1	Turbo fan x 1
	External static press.	Pa	0	0	0	0
		mmH_2O	0	0	0	0
	Motor type		DC motor			
	Motor output	kW	0.050	0.050	0.050	0.050
	Driving mechanism		Direct-drive			
	Airflow rate		(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)
		m^3 / min	11 - 12 - 13 - 14	11 - 12 - 13 - 14	11 - 12 - 13 - 14	12 - 13 - 14 - 16
		L / s	183 - 200 - 217 - 233	183 - 200 - 217 - 233	183 - 200 - 217 - 233	200 - 217 - 233 - 267
		cfm	388 - 424 - 459 - 494	388 - 424 - 459 - 494	388 - 424 - 459 - 494	424 - 459 - 494 - 565
Sound pressure level			(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)
(measured in anechoic room)	*4	dB <A>	27 - 28 - 29 - 31	27 - 28 - 29 - 31	27 - 28 - 29 - 31	27 - 28 - 30 - 31
Insulation material			PS			
Air filter			PP honeycomb			
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) Flare	ø6.35 (ø1/4) Flare	ø6.35 (ø1/4) Flare	ø6.35 (ø1/4) Flare
	Gas (R410A)	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.)	O.D. 32 (1-1/4)			
Standard attachment	Document Accessory		Installation Manual, Instruction Book			
Remark	Optional parts					
	Decoration panel **1		PLP-6BA	PLP-6BA	PLP-6BA	PLP-6BA
	Air outlet shutter plate		PAC-SH51SP-E	PAC-SH51SP-E	PAC-SH51SP-E	PAC-SH51SP-E
	High efficiency filter element **2		PAC-SH59KF-E	PAC-SH59KF-E	PAC-SH59KF-E	PAC-SH59KF-E
	Multi-function casement		PAC-SH53TM-E	PAC-SH53TM-E	PAC-SH53TM-E	PAC-SH53TM-E
			**1.PLFY-P-VBM-E should use together with PLP-6BA. **2.PAC-SH53TM-E is necessary to use with filter PAC-SH59KF-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

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

Indoor :	27°CDB/19.5°CWB (81°FDB/67°FWB)
Outdoor :	35°CDB (95°FDB)
Pipe length :	5 m (16-3/8 ft)
Level difference :	0 m (0 ft)

*3 Nominal heating conditions

Indoor :	20°CDB (68°FDB)
Outdoor :	7°CDB/6°CWB (45°FDB/43°FWB)
Pipe length :	7.5 m (24-9/16 ft)
Level difference :	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.

*4 The values are measured at the rated external static pressure.

Unit converter

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

*Above specification data is subject to rounding variation.

PLFY-VFM/VBM

1. SPECIFICATIONS

Model			PLFY-P50VBM-E	PLFY-P63VBM-E	PLFY-P80VBM-E	PLFY-P100VBM-E
Power source			1-phase 220-240V 50Hz, 1-phase 220V 60Hz			
Cooling capacity (Nominal)	*1	kW	5.6	7.1	9.0	11.2
	*1	kcal / h	4,800	6,100	7,700	9,600
	*1	BTU / h	19,100	24,200	30,700	38,200
	*2	kcal / h	5,000	6,300	8,000	10,000
*4	Power input	kW	0.04	0.05	0.07	0.15
*4	Current input	A	0.29	0.36	0.51	1.00
Heating capacity (Nominal)	*3	kW	6.3	8.0	10.0	12.5
	*3	kcal / h	5,400	6,900	8,600	10,800
	*3	BTU / h	21,500	27,300	34,100	42,700
*4	Power input	kW	0.03	0.04	0.06	0.14
*4	Current input	A	0.22	0.29	0.43	0.94
External finish			Galvanized steel sheet			
External dimension H x W x D		mm	258 x 840 x 840	258 x 840 x 840	258 x 840 x 840	298 x 840 x 840
		in.	10-3/16 x 33-1/8 x 33-1/8	10-3/16 x 33-1/8 x 33-1/8	10-3/16 x 33-1/8 x 33-1/8	11-3/4 x 33-1/8 x 33-1/8
Net weight		kg (lbs)	22 (49)	23 (51)	23(51)	27(60)
Decoration panel	Model		**PLP-6BA**	**PLP-6BA**	**PLP-6BA**	**PLP-6BA**
	External finish		MUNSELL (6.4Y 8.9/0.4)			
	Dimension	mm	35 x 950 x 950			
	H x W x D	in.	1-3/8 x 37-7/16 x 37-7/16			
	Net weight	kg (lbs)	6 (13)			
Heat exchanger			Cross fin (Aluminum fin and copper tube)			
FAN	Type x Quantity		Turbo fan x 1	Turbo fan x 1	Turbo fan x 1	Turbo fan x 1
	External	Pa	0	0	0	0
	static press.	mmH_2O	0	0	0	0
	Motor type		DC motor			
	Motor output	kW	0.050	0.050	0.050	0.120
	Driving mechanism		Direct-drive			
	Airflow rate		(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)
		m^3 / min	12 - 13 - 14 - 16	14 - 15 - 16 - 18	16 - 18 - 20 - 22	21 - 24 - 27 - 29
		L / s	200 - 217 - 233 - 267	233 - 250 - 267 - 300	267 - 300 - 333 - 367	350 - 400 - 450 - 483
		cfm	424 - 459 - 494 - 565	494 - 530 - 565 - 636	565 - 636 - 706 - 777	742 - 848 - 953 - 1024
Sound pressure level			(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)
(measured in anechoic room)	*4	dB <A>	27 - 28 - 30 - 31	28 - 29 - 30 - 32	30 - 32 - 35 - 37	34 - 37 - 39- 41
Insulation material			PS			
Air filter			PP honeycomb			
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) Flare	ø9.52 (ø3/8) Flare	ø9.52 (ø3/8) Flare	ø9.52 (ø3/8) Flare
	Gas (R410A)	mm (in.)	ø12.7 (ø1/2) Flare	ø15.88 (ø5/8) Flare	ø15.88 (ø5/8) Flare	ø15.88 (ø5/8) Flare
Field drain pipe size		mm (in.)	O.D. 32 (1-1/4)			
Standard attachment	Document Accessory		Installation Manual, Instruction Book			
Remark	Optional parts					
	Decoration panel **1		PLP-6BA	PLP-6BA	PLP-6BA	PLP-6BA
	Air outlet shutter plate		PAC-SH51SP-E	PAC-SH51SP-E	PAC-SH51SP-E	PAC-SH51SP-E
	High efficiency filter element **2		PAC-SH59KF-E	PAC-SH59KF-E	PAC-SH59KF-E	PAC-SH59KF-E
	Multi-function casement		PAC-SH53TM-E	PAC-SH53TM-E	PAC-SH53TM-E	PAC-SH53TM-E
			**1.PLFY-P-VBM-E should use together with PLP-6BA. **2.PAC-SH53TM-E is necessary to use with filter PAC-SH59KF-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

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)

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

*4 The values are measured at the rated external static pressure.

Unit converter

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

*Above specification data is subject to rounding variation.

PLFY-VFM/VBM

1. SPECIFICATIONS

Model			PLFY-P125VBM-E	
Power source			1-phase 220-240V 50Hz, 1-phase 220V 60Hz	
Cooling capacity (Nominal)	*1	kW	14.0	
	*1	kcal / h	12,000	
	*1	BTU / h	47,800	
	*2	kcal / h	12,500	
*4	Power input	kW	0.16	
*4	Current input	A	1.07	
Heating capacity (Nominal)	*3	kW	16.0	
	*3	kcal / h	13,800	
	*3	BTU / h	54,600	
*4	Power input	kW	0.15	
*4	Current input	A	1.00	
External finish			Galvanized steel sheet	
External dimension H x W x D		mm	298 x 840 x 840	
		in.	11-3/4 x 33-1/8 x 33-1/8	
Net weight		kg (lbs)	27(60)	
Decoration panel	Model		**PLP-6BA**	
	External finish		MUNSELL (6.4Y 8.9/0.4)	
	Dimension	mm	35 x 950 x 950	
	H x W x D	in.	1-3/8 x 37-7/16 x 37-7/16	
	Net weight	kg (lbs)	6(13)	
Heat exchanger			Cross fin (Aluminum fin and copper tube)	
FAN	Type x Quantity		Turbo fan x 1	
	External static press.	Pa	0	
		mmH_2O	0	
	Motor type		DC motor	
	Motor output	kW	0.120	
	Driving mechanism		Direct-drive	
	Airflow rate		(Low-Mid2-Mid1-High)	
		m^3 / min	22 - 25 - 28 - 30	
		L / s	367 - 417 - 467 - 500	
		cfm	777 - 883 - 989 - 1059	
Sound pressure level (measured in anechoic room)	*4	dB <A>	(Low-Mid2-Mid1-High)	
			35 - 38 - 41 - 43	
Insulation material			PS	
Air filter			PP honeycomb	
Protection device			Fuse	
Refrigerant control device			LEV	
Connectable outdoor unit			R410A CITY MULTI	
Diameter of refrigerant pipe	Liquid (R410A)	mm (in.)	ø9.52 (ø3/8) Flare	
	Gas (R410A)	mm (in.)	ø15.88 (ø5/8) Flare	
Field drain pipe size		mm (in.)	O.D. 32 (1-1/4)	
Standard attachment	Document Accessory		Installation Manual, Instruction Book	
Remark	Optional parts			
	Decoration panel **1		PLP-6BA	
	Air outlet shutter plate		PAC-SH51SP-E	
	High efficiency filter element **2		PAC-SH59KF-E	
	Multi-function casement		PAC-SH53TM-E	
			**1.PLFY-P-VBM-E should use together with PLP-6BA. **2.PAC-SH53TM-E is necessary to use with filter PAC-SH59KF-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

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)

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

*4 The values are measured at the rated external static pressure.

Unit converter

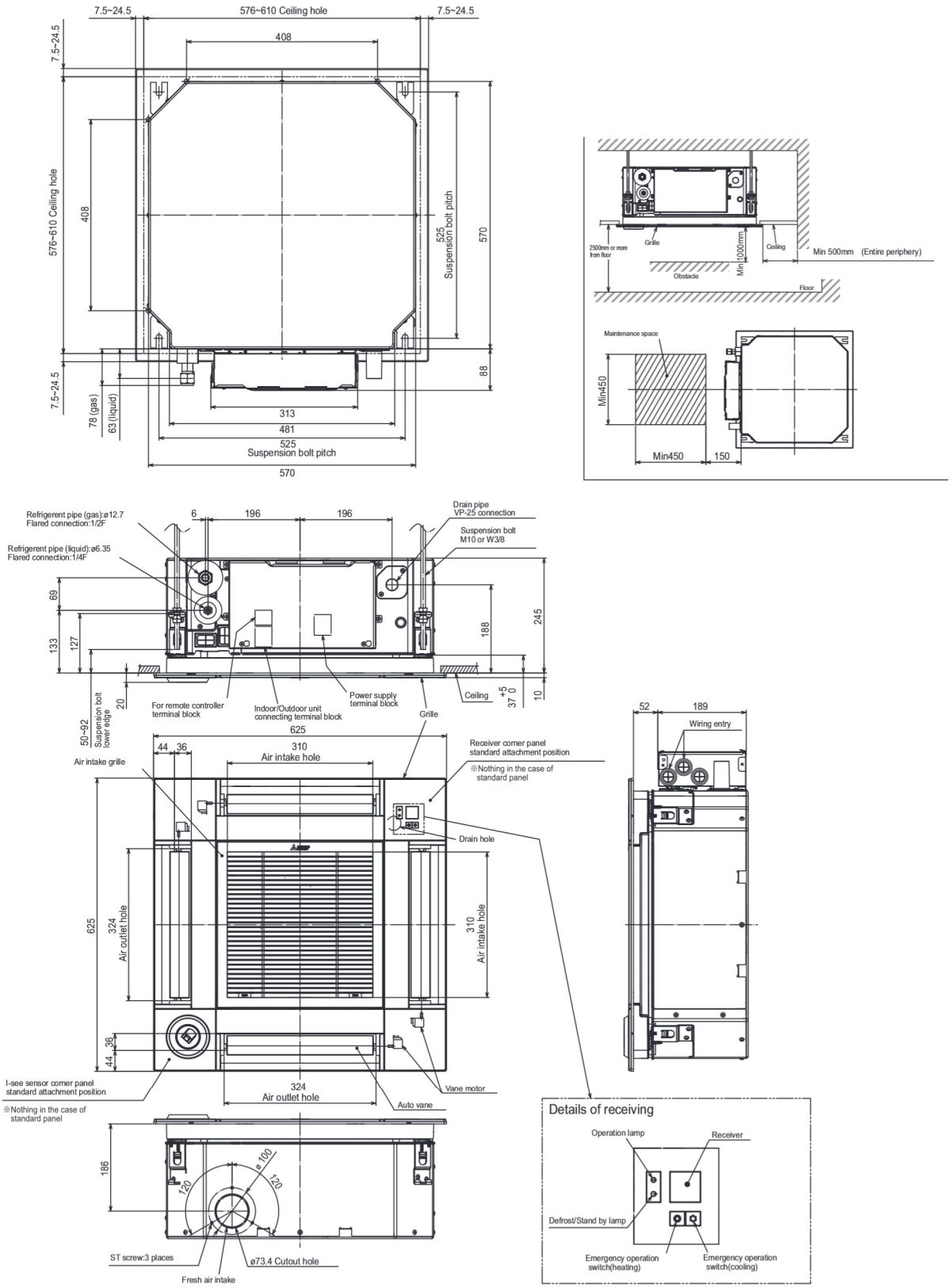
kcal/h = kW x 860
BTU/h = kW x 3,412
cfm = m^3/min x 35.31
lbs = kg / 0.4536

*Above specification data is subject to rounding variation.

PLFY-VFM/VBM

PLFY-P15, 20, 25, 32, 40, 50VFM-E

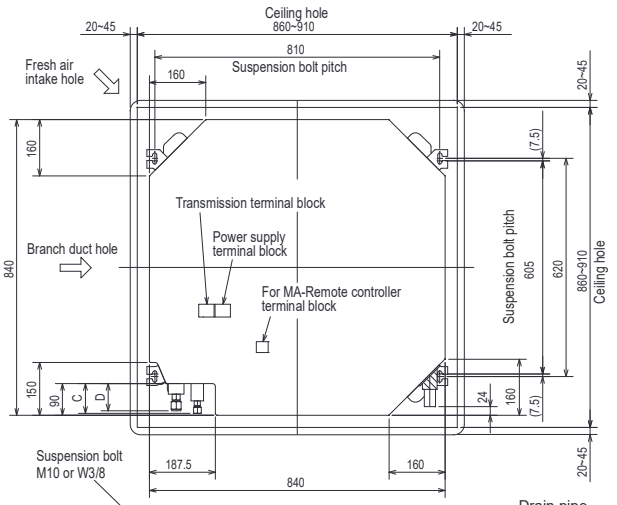
Unit: mm

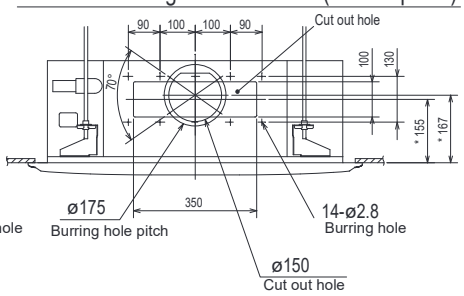


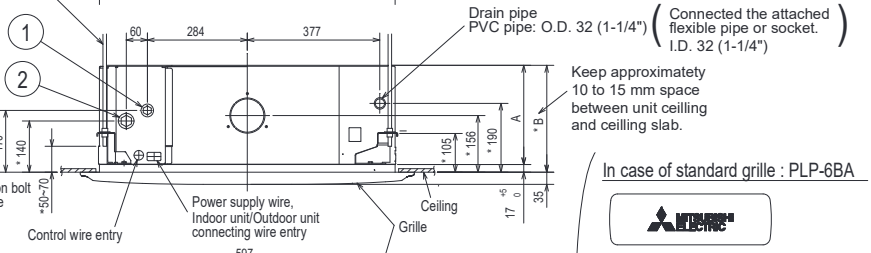
2. EXTERNAL DIMENSIONS

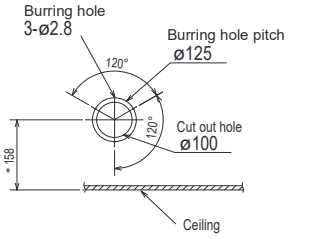
PLFY-P20, 25, 32, 40, 50, 63, 80, 100, 125VBM-E

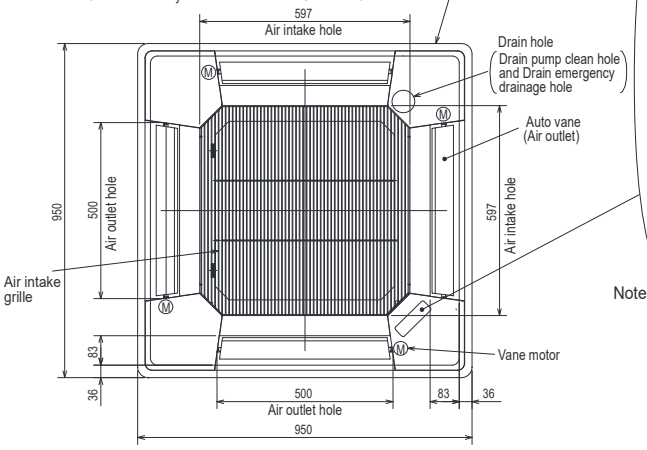
Unit: mm

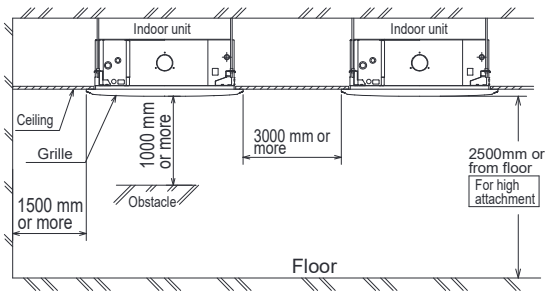








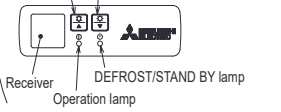


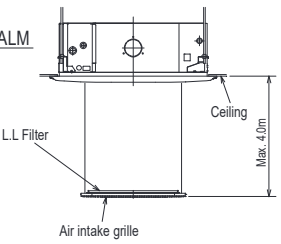


In case of standard grille : PLP-6BA

In case of Auto-Grille : PLP-6BAJ

In case of wireless remote controller : PLP-6BALM





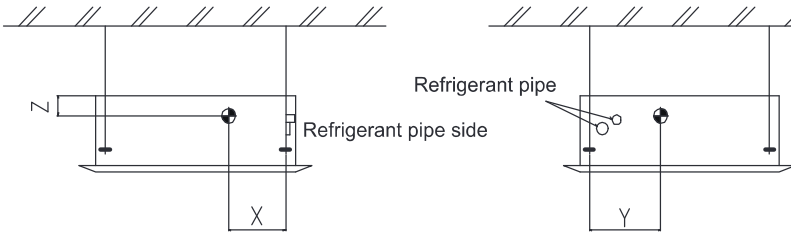
Note 1. Please choose the Grille from a standard grille, Auto-Grille.
2. As for drain pipe, please use VP-25 (O.D. ø32 PVC TUBE).
Drain pump inclusion.
Raise is max 850mm from the ceiling.
3. As for suspension bolt, please use M10 or W3/8. (Procured at local site)
4. Electrical box may be removed for the service purpose.
Make sure to slack the electrical wire little bit for control/power wires connection.
5. The height of the indoor unit is able to be adjusted with the grille attached.
6. For the installation of the optional high efficiency filter or optional multi-functional casement.
1) Requires E or more space between transom and ceiling for the installation.
2) Add 135 mm to the dimensions * marked on the figure.
3) The optional high efficiency filter becomes optional multi-functional casement and concomitant use.
7. When installing the branch ducts, be sure to insulate adequately.
Otherwise condensation and dripping may occur.
(It becomes the cause of dew drops/Wear dew.)
8. As for necessary installation/service space, please refer to the left at figure.

Accessory ··· Drain socket (I.D. 32 (1-1/4"))

Models	①	②	A	B	C	D	E
PLFY-P20,25,32,40VBM-E	Refrigerant pipe···ø 6.35 Flared connection···1/4F	Refrigerant pipe ···ø12.7 Flared connection···1/2F	241	258	80	74	400
PLFY-P50VBM-E	Refrigerant pipe ø6.35 /ø9.52 Flared connection 1/4F / 3/8F (compatible)	Refrigerant pipe ø12.7 Flared connection 1/2F			87	78	
PLFY-P63,80VBM-E	Refrigerant pipe···3/8F Flared connection···ø9.52	Refrigerant pipe···ø15.88 Flared connection···5/8F			85	77	
PLFY-P100,125VBM-E		Refrigerant pipe ø15.88 Flared connection 5/8F	281	298		81	440

PLFY-VFM/VBM

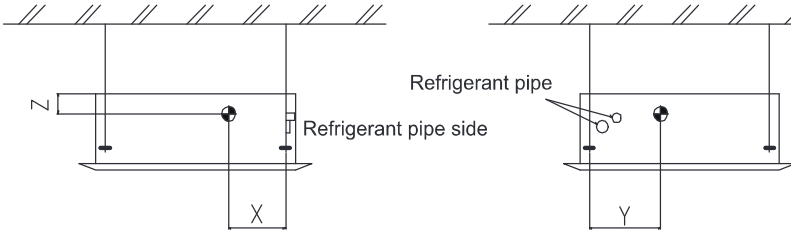
PLFY-P15, 20, 25, 32, 40, 50VFM-E



(mm)[in]

Model name	X	Y	Z
PLFY-P15VFM-E	150 [5-29/32]	260 [10-1/4]	105 [4-5/32]
PLFY-P20VFM-E	150 [5-29/32]	260 [10-1/4]	105 [4-5/32]
PLFY-P25VFM-E	150 [5-29/32]	260 [10-1/4]	105 [4-5/32]
PLFY-P32VFM-E	150 [5-29/32]	260 [10-1/4]	105 [4-5/32]
PLFY-P40VFM-E	150 [5-29/32]	260 [10-1/4]	105 [4-5/32]
PLFY-P50VFM-E	150 [5-29/32]	260 [10-1/4]	105 [4-5/32]

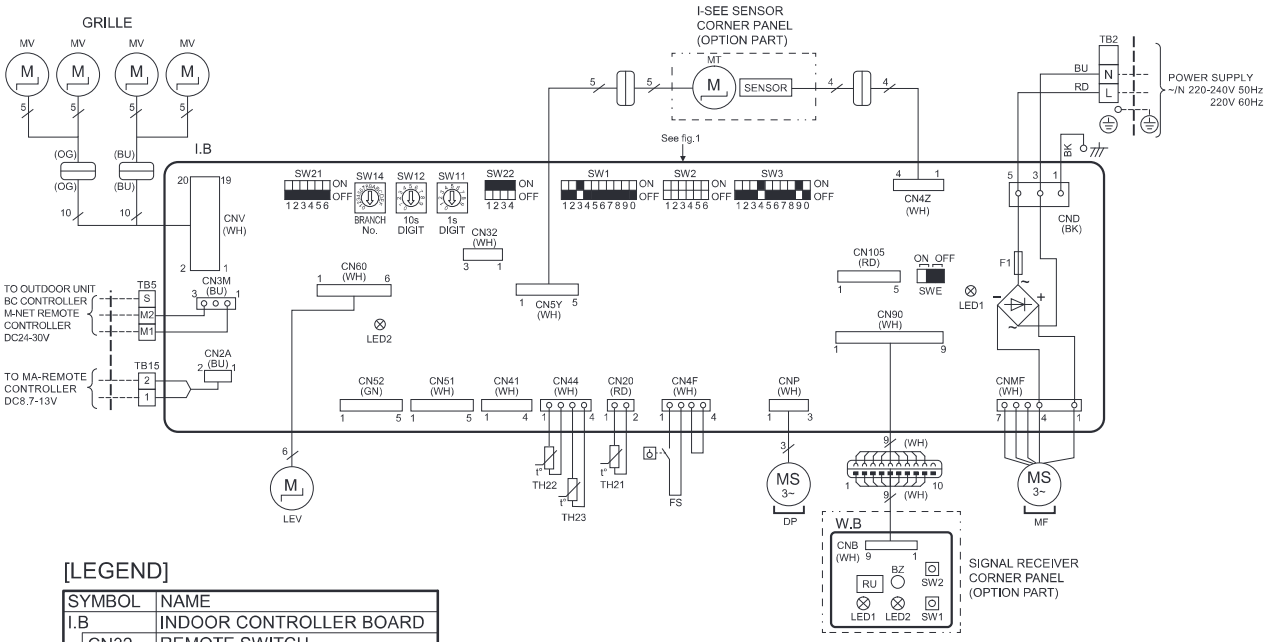
PLFY-P20, 25, 32, 40, 50, 63, 80, 100, 125VBM-E



(mm)[in]

Model name	X	Y	Z
PLFY-P20VBM-E	280 [11-1/32]	400 [15-3/4]	105 [4-5/32]
PLFY-P25VBM-E	280 [11-1/32]	400 [15-3/4]	105 [4-5/32]
PLFY-P32VBM-E	280 [11-1/32]	400 [15-3/4]	105 [4-5/32]
PLFY-P40VBM-E	280 [11-1/32]	400 [15-3/4]	105 [4-5/32]
PLFY-P50VBM-E	280 [11-1/32]	400 [15-3/4]	105 [4-5/32]
PLFY-P63VBM-E	280 [11-1/32]	400 [15-3/4]	105 [4-5/32]
PLFY-P80VBM-E	280 [11-1/32]	400 [15-3/4]	105 [4-5/32]
PLFY-P100VBM-E	280 [11-1/32]	400 [15-3/4]	125 [4-15/16]
PLFY-P125VBM-E	280 [11-1/32]	400 [15-3/4]	125 [4-15/16]

PLFY-P15, 20, 25, 32, 40, 50VFM-E



[LEGEND]

SYMBOL		NAME
I.B		INDOOR CONTROLLER BOARD
	CN32	REMOTE SWITCH
	CN41	HA TERMINAL-A
	CN51	CENTRALLY CONTROL
	CN52	REMOTE INDICATION
	CN105	IT TERMINAL
	F1	FUSE(T6.3AL 250V)
	LED1	POWER SUPPLY (I.B)
	LED2	POWER SUPPLY (MA-REMOTE CONTROLLER)
	SW1	MODE SELECTION
	SW2	CAPACITY CODE
	SW3	MODE SELECTION
	SW11	ADDRESS SETTING ONES DIGIT
	SW12	ADDRESS SETTING TENS DIGIT
	SW14	BRANCH No.
	SW21	CEILING HEIGHT SELECTOR
	SW22	PAIR NO. SETTING
	SWE	DRAIN PUMP(TEST MODE)
DP		DRAIN PUMP
LEV		LINEAR EXPANSION VALVE
MF		FAN MOTOR
MV		VANE MOTOR
FS		FLOAT SWITCH
TB2	TERMINAL BLOCK	POWER SUPPLY
TB5		TRANSMISSION
TB15		MA-REMOTE CONTROLLER
TH21		ROOM TEMP. THERMISTOR
TH22		PIPE TEMP. THERMISTOR/LIQUID
TH23		PIPE TEMP. THERMISTOR/GAS
OPTION PART		
	W.B	WIRELESS REMOTE CONTROLLER BOARD
	BZ	BUZZER
	LED1	OPERATION (GREEN)
	LED2	STAND BY (ORANGE)
	RU	RECEIVING UNIT
	SW1	EMERGENCY OPERATION(HEAT)
	SW2	EMERGENCY OPERATION(COOL)
	MT	I-SEE SENSOR MOTOR

<fig.1>

MODELS	SW2	MODELS	SW2
P15	ON OFF 123456	P32	ON OFF 123456
P20	ON OFF 123456	P40	ON OFF 123456
P25	ON OFF 123456	P50	ON OFF 123456

The black square (■) indicates a switch position.

Notes:
1.At servicing for outdoor unit,always follow the wiring diagram of outdoor unit.
2.In case of using MA-Remote controller, please connect to TB15.
(Remote controller wire is non-polar.)
3.In case of using M-NET, please connect to TB5. (Transmission line is non-polar.)
4.Symbol [S]of TB5 is the shield wire connection.
5.Symbols used in wiring diagram above are, □□□ : terminal block, □□ ○○○ : connector.
6.The setting of the SW2 dip switches differs in the capacity. For the detail, refer to the fig.1.

PLFY-P20, 25, 32, 40, 50, 63, 80, 100, 125VBM-E

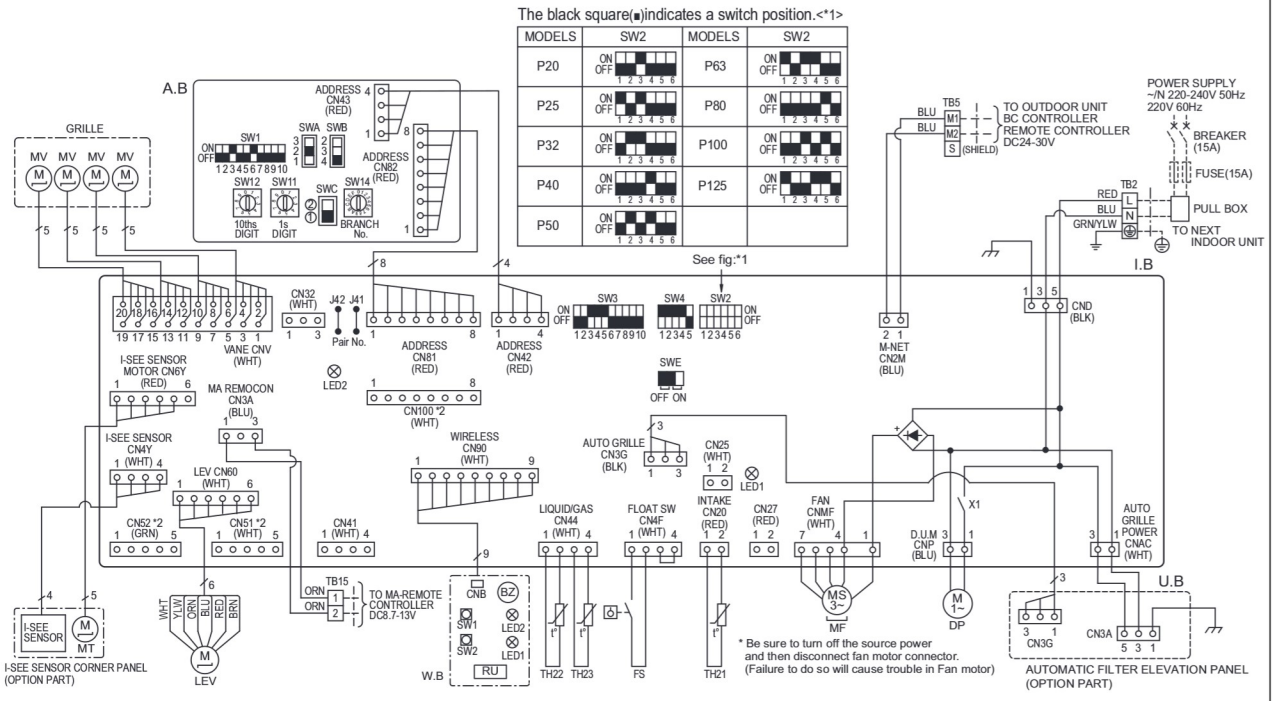
【LEGEND】

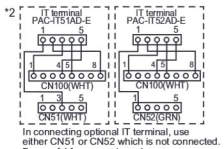
SYMBOL	NAME		SYMBOL	NAME	
I. B	INDOOR CONTROLLER BOARD		DP	DRAIN-UP MACHINE	
CN27	CONNECTOR	DAMPER	FS	DRAIN FLOAT SWITCH	
CN32		REMOTE SWITCH	LEV	LINEAR EXPANSION VALVE	
CN51		CENTRALLY CONTROL	MF	FAN MOTOR	
CN52		REMOTE INDICATION	MV	VANE MOTOR	
CH100	IT TERMINAL		TB2	TERMINAL BLOCK	POWER SUPPLY
FUSE	FUSE(T6.3AL250V)		TB5		TRANSMISSION
LED1	POWER SUPPLY(I. B)		TB15		MA-REMOTE CONTROLLER
LED2	POWER SUPPLY(I. B)		TH21	THERMISTOR	ROOM TEMP. DETECTION (0°C / 15kΩ, 25°C / 5.4kΩ)
SW2	SWITCH	CAPACITY CODE			
SW3		MODE SELECTION	TH22		PIPE TEMP. DETECTION / LIQUID (0°C / 15kΩ, 25°C / 5.4kΩ)
SW4		MODEL SELECTION			
SWE		DRAIN-UP MACHINE(TEST MODE)	TH23		PIPE TEMP. DETECTION / GAS (0°C / 15kΩ, 25°C / 5.4kΩ)
X1	AUX. RELAY	DRAIN WATER LIFTING-UP MACH.			

SYMBOL	NAME	
A. B	ADDRESS BOARD	
SWA	SWITCH	CEILING HEIGHT SELECTOR
SWB		DISCHARGE OUTLET NUMBER SELECTOR
SWC		OPTION SELECTOR
SW1		MODE SELECTION
SW11		ADDRESS SETTING 1s DIGIT
SW12		ADDRESS SETTING 10ths DIGIT
SW14		CONNECTION NO.
OPTION PART		
W.B	PCB FOR WIRELESS REMOTE CONTROLLER	
BZ	BUZZER	
LED1	LED(OPERATION INDICATION : GREEN)	
LED2	LED(PREPARATION FOR HEATING : ORANGE)	
RU	RECEIVING UNIT	
SW1	EMERGENCY OPERATION(HEAT / DOWN)	
SW2	EMERGENCY OPERATION(COOL / UP)	

The black square(■)indicates a switch position.<*1>

MODELS	SW2	MODELS	SW2
P20	ON OFF 1 2 3 4 5 6	P63	ON OFF 1 2 3 4 5 6
P25	ON OFF 1 2 3 4 5 6	P80	ON OFF 1 2 3 4 5 6
P32	ON OFF 1 2 3 4 5 6	P100	ON OFF 1 2 3 4 5 6
P40	ON OFF 1 2 3 4 5 6	P125	ON OFF 1 2 3 4 5 6
P50	ON OFF 1 2 3 4 5 6		





NOTES:
1. At servicing for outdoor unit, always follow the wiring diagram of outdoor unit.
2. In case of using MA-Remote controller, please connect to TB15.(Remote controller wire is non-polar.)
3. In case of using M-NET, please connect to TB5. (Transmission line is non-polar.)
4. Symbol [S] of TB5 is the shield wire connection.
5. Symbols used in wiring diagram above are, ☐☐☐ : terminal block, ○○○ : connecter.
6. The setting of the SW2 dip switches differs in the capacity. For the detail, refer to fig<*1>.

LED on indoor board for service

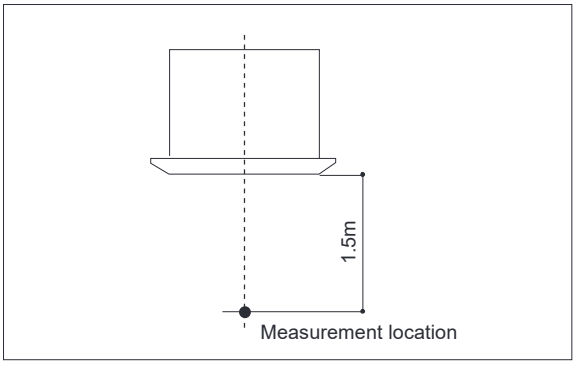
Mark	Meaning	Function
LED1	Main power supply	Main Power supply(Indoor unit:220-240V) power on → lamp is lit
LED2	Power supply for MA-Remote controller	Power supply for MA-Remote controller on → lamp is lit

PLFY-VFM/VBM

5. SOUND LEVELS

5-1. Sound levels

PLFY-P-VFM-E, VBM-E



* Measured in anechoic room.

Sound level at anechoic room : Low-Mid-High

	Sound level dB (A)
PLFY-P15VFM-E	26-28-30
PLFY-P20VFM-E	26-29-31
PLFY-P25VFM-E	26-30-33
PLFY-P32VFM-E	26-30-34
PLFY-P40VFM-E	28-33-39
PLFY-P50VFM-E	33-39-43

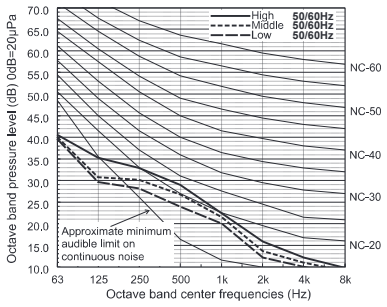
Sound level at anechoic room : Low-Mid2-Mid1-High

	Sound level dB (A)
PLFY-P20VBM-E PLFY-P25VBM-E PLFY-P32VBM-E	27-28-29-31
PLFY-P40VBM-E PLFY-P50VBM-E	27-28-30-31
PLFY-P63VBM-E	28-29-30-32
PLFY-P80VBM-E	30-32-35-37
PLFY-P100VBM-E	34-37-39-41
PLFY-P125VBM-E	35-38-41-43

5-2. NC curves

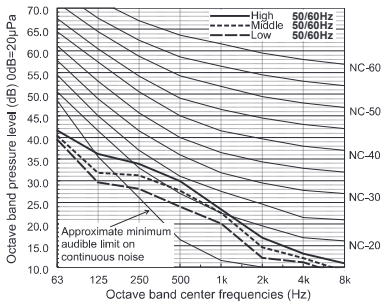
PLFY-P15VFM-E

External Static Pressure: 0Pa [0.00in.WG]
Power Source: 220,230,240V, 50Hz/220V, 60Hz



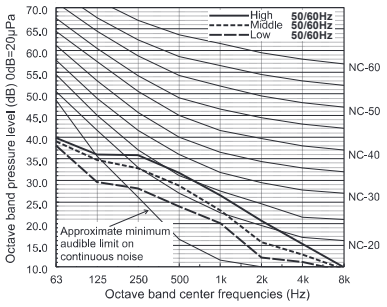
PLFY-P20VFM-E

External Static Pressure: 0Pa [0.00in.WG]
Power Source: 220,230,240V, 50Hz/220V, 60Hz



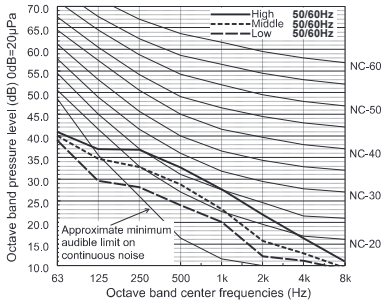
PLFY-P25VFM-E

External Static Pressure: 0Pa [0.00in.WG]
Power Source: 220,230,240V, 50Hz/220V, 60Hz



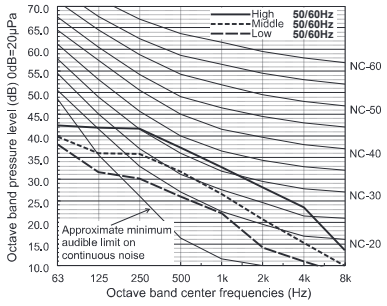
PLFY-P32VFM-E

External Static Pressure: 0Pa [0.00in.WG]
Power Source: 220,230,240V, 50Hz/220V, 60Hz



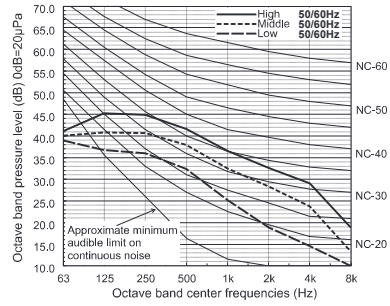
PLFY-P40VFM-E

External Static Pressure: 0Pa [0.00in.WG]
Power Source: 220,230,240V, 50Hz/220V, 60Hz

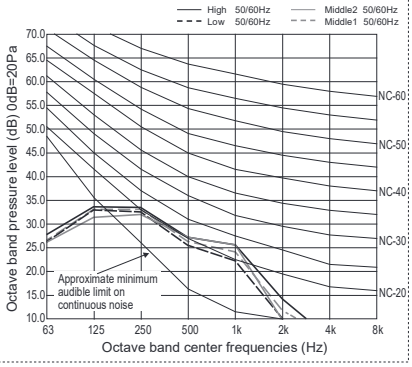


PLFY-P50VFM-E

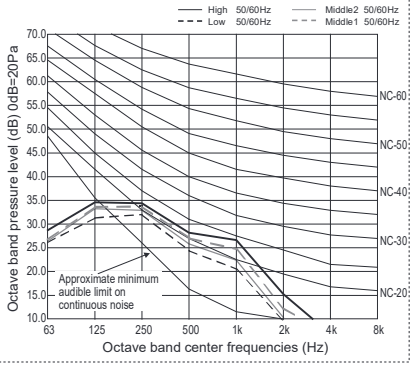
External Static Pressure: 0Pa [0.00in.WG]
Power Source: 220,230,240V, 50Hz/220V, 60Hz



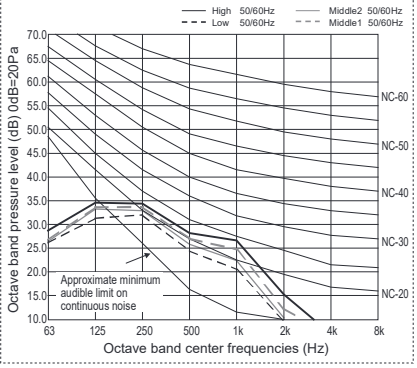
PLFY-P20, 25VBM-E
External static pressure : 0Pa
Power source : 220,230,240V, 50Hz / 220V, 60Hz



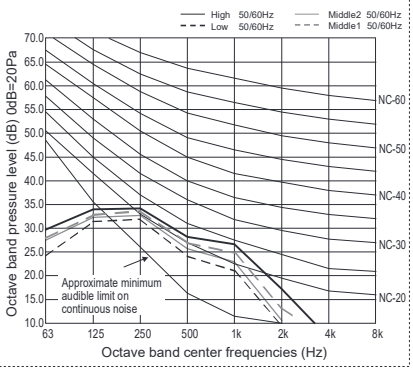
PLFY-P32VBM-E
External static pressure : 0Pa
Power source : 220,230,240V, 50Hz / 220V, 60Hz



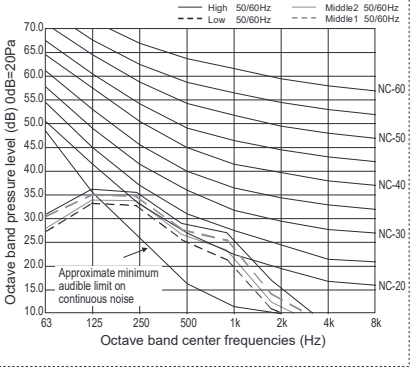
PLFY-P40VBM-E
External static pressure : 0Pa
Power source : 220,230,240V, 50Hz / 220V, 60Hz



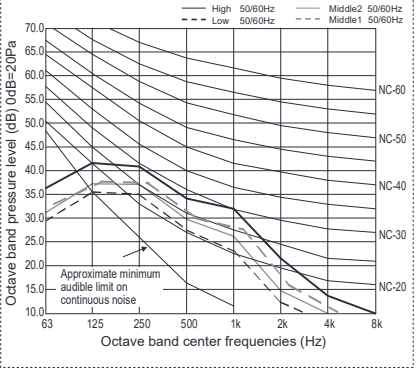
PLFY-P50VBM-E
External static pressure : 0Pa
Power source : 220,230,240V, 50Hz / 220V, 60Hz



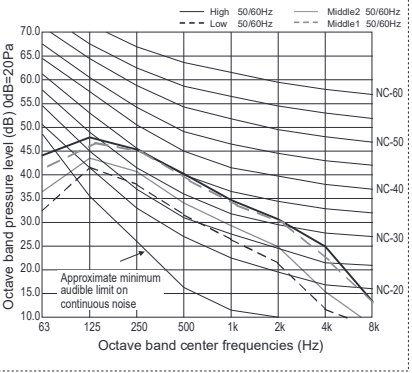
PLFY-P63VBM-E
External static pressure : 0Pa
Power source : 220,230,240V, 50Hz / 220V, 60Hz



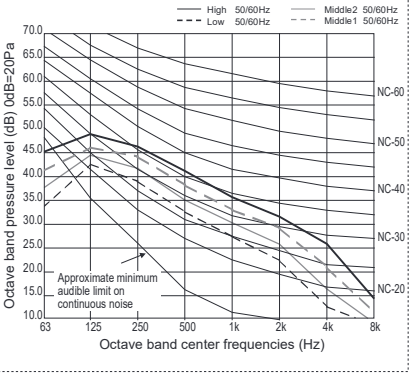
PLFY-P80VBM-E
External static pressure : 0Pa
Power source : 220,230,240V, 50Hz / 220V, 60Hz



PLFY-P100VBM-E
External static pressure : 0Pa
Power source : 220,230,240V, 50Hz / 220V, 60Hz



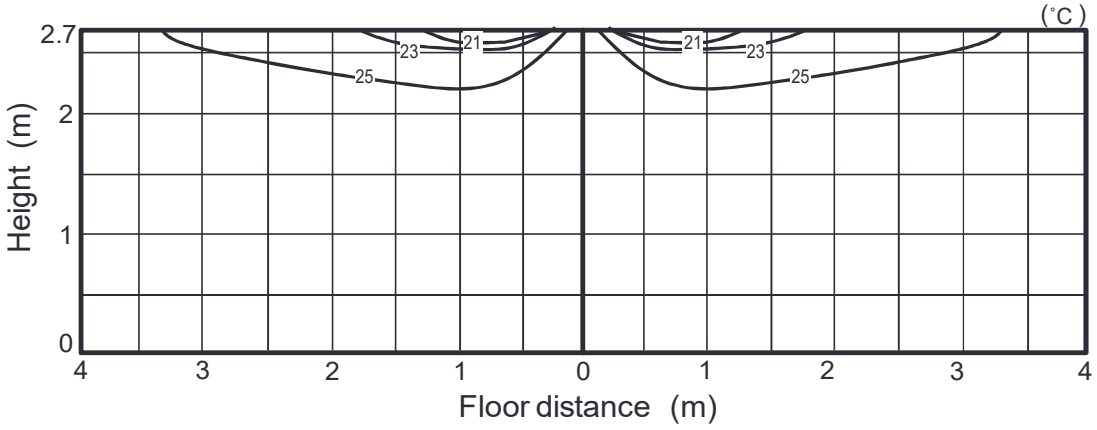
PLFY-P125VBM-E
External static pressure : 0Pa
Power source : 220,230,240V, 50Hz / 220V, 60Hz



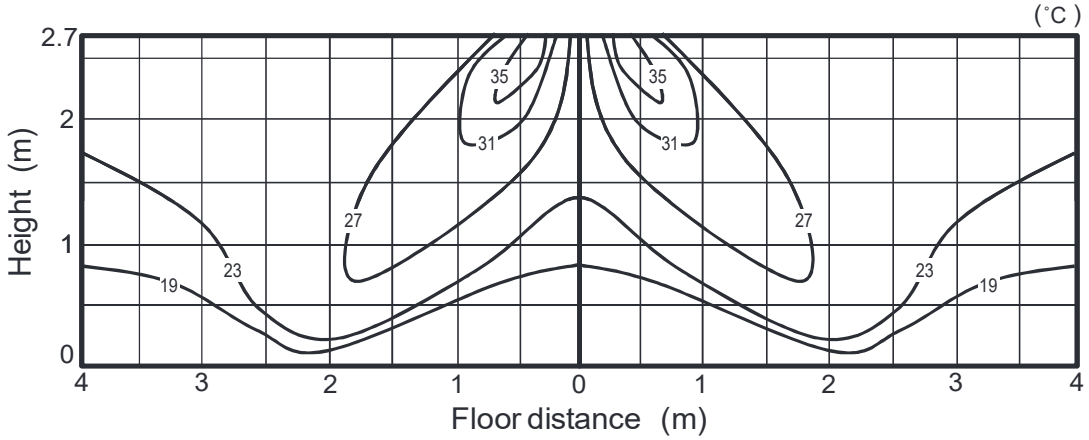
6-1. Temperature distributions

PLFY-P15-50VFM-E

<Cooling mode>
Horizontal
Ceiling height : 2.7m



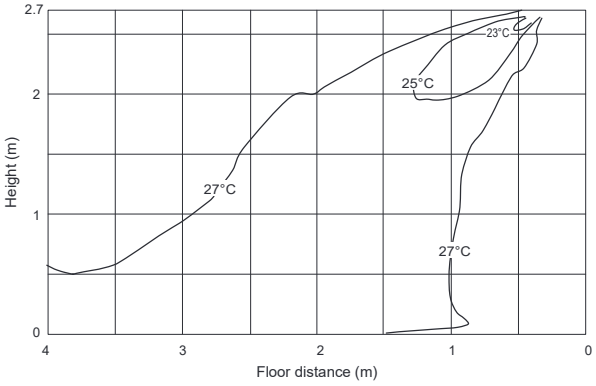
<Heating mode>
Downward
Ceiling height : 2.7m



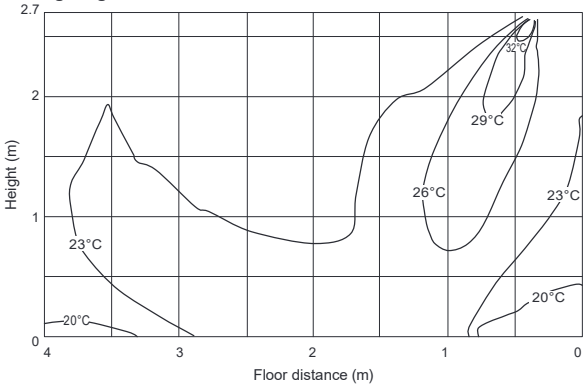
Note : These figures show typical temperature distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

PLFY-P-VBM-E

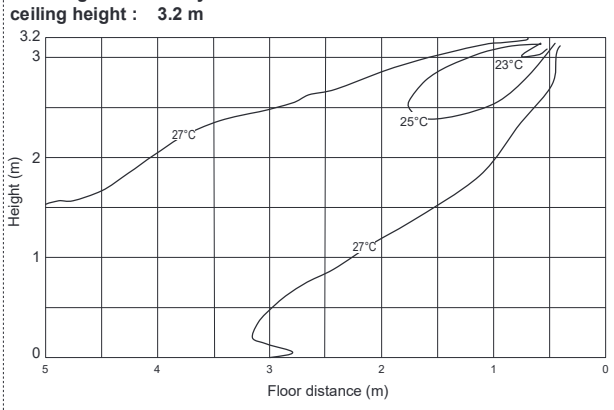
• PLFY-P20-80VBM-E
<Cooling mode> Standard
Flow angle : 30° 4-way flow
ceiling height : 2.7 m



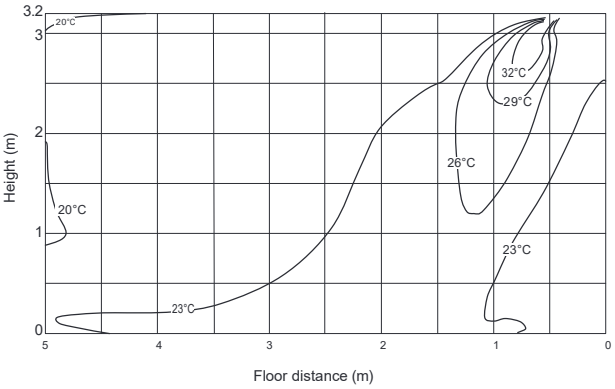
<Heating mode> Standard
Flow angle : 60° 4-way flow
ceiling height : 2.7 m



• PLFY-P100, 125VBM-E
<Cooling mode> Standard
Flow angle : 30° 4-way flow
ceiling height : 3.2 m



<Heating mode> Standard
Flow angle : 60° 4-way flow
ceiling height : 3.2 m



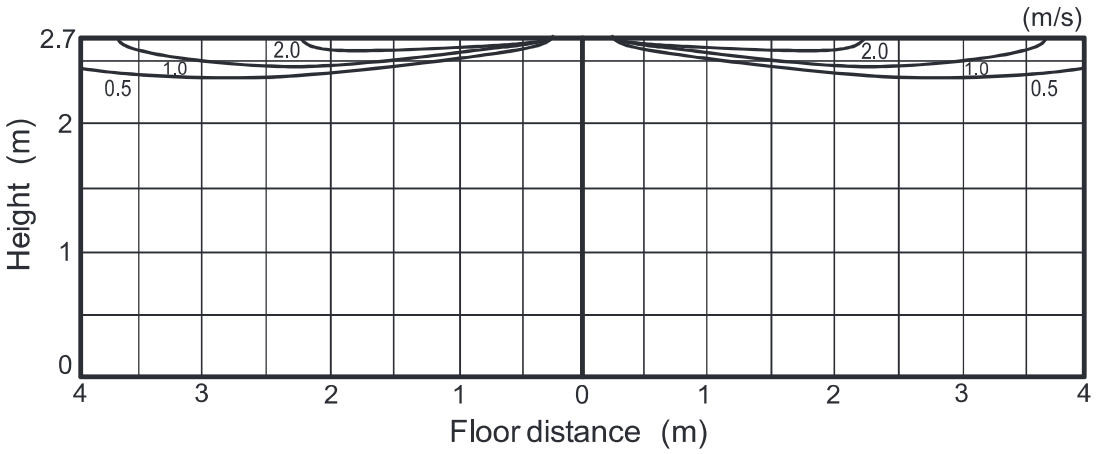
PLFY-VFM/VBM

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.

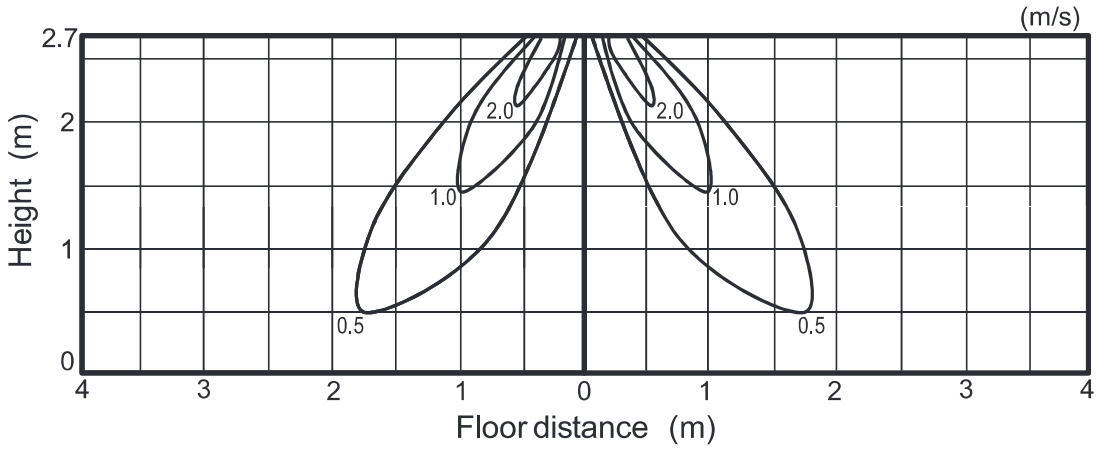
6-2. Airflow distributions

PLFY-P15-50VFM-E

<Cooling mode>
Horizontal
Ceiling height : 2.7m



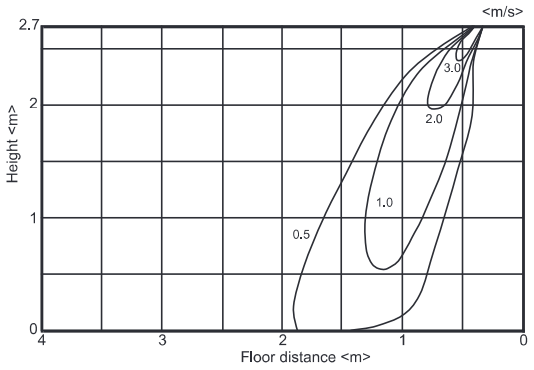
<Heating mode>
Downward
Ceiling height : 2.7m



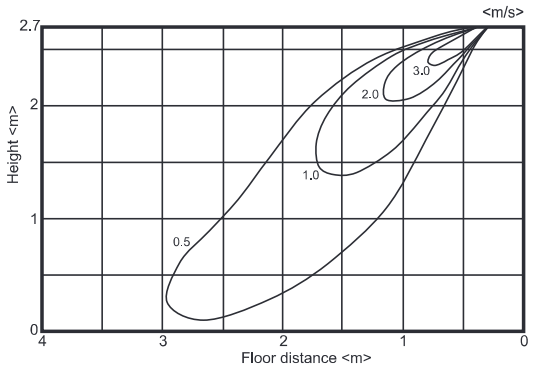
Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

PLFY-P20-80VBM-E

<Heating mode>
Flow angle 60°

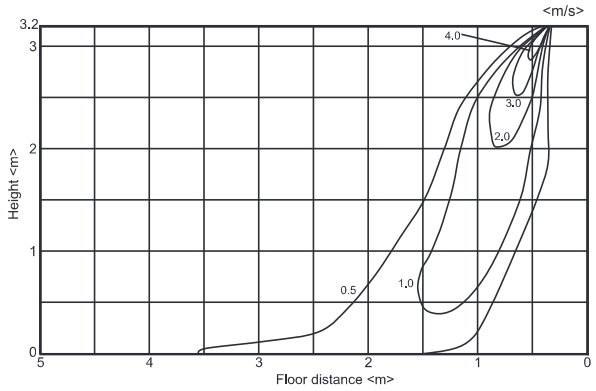


<Cooling mode>
Flow angle 30°

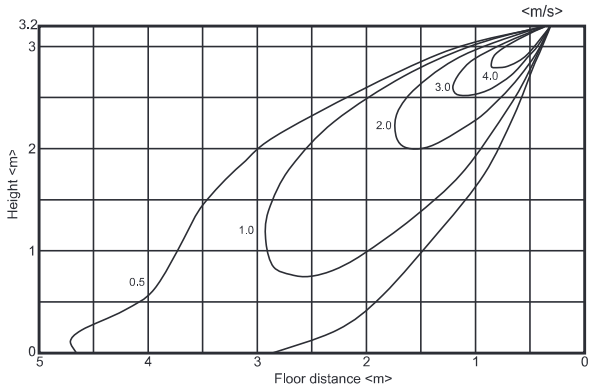


PLFY-P100, 125VBM-E

<Heating mode>
Flow angle 60°



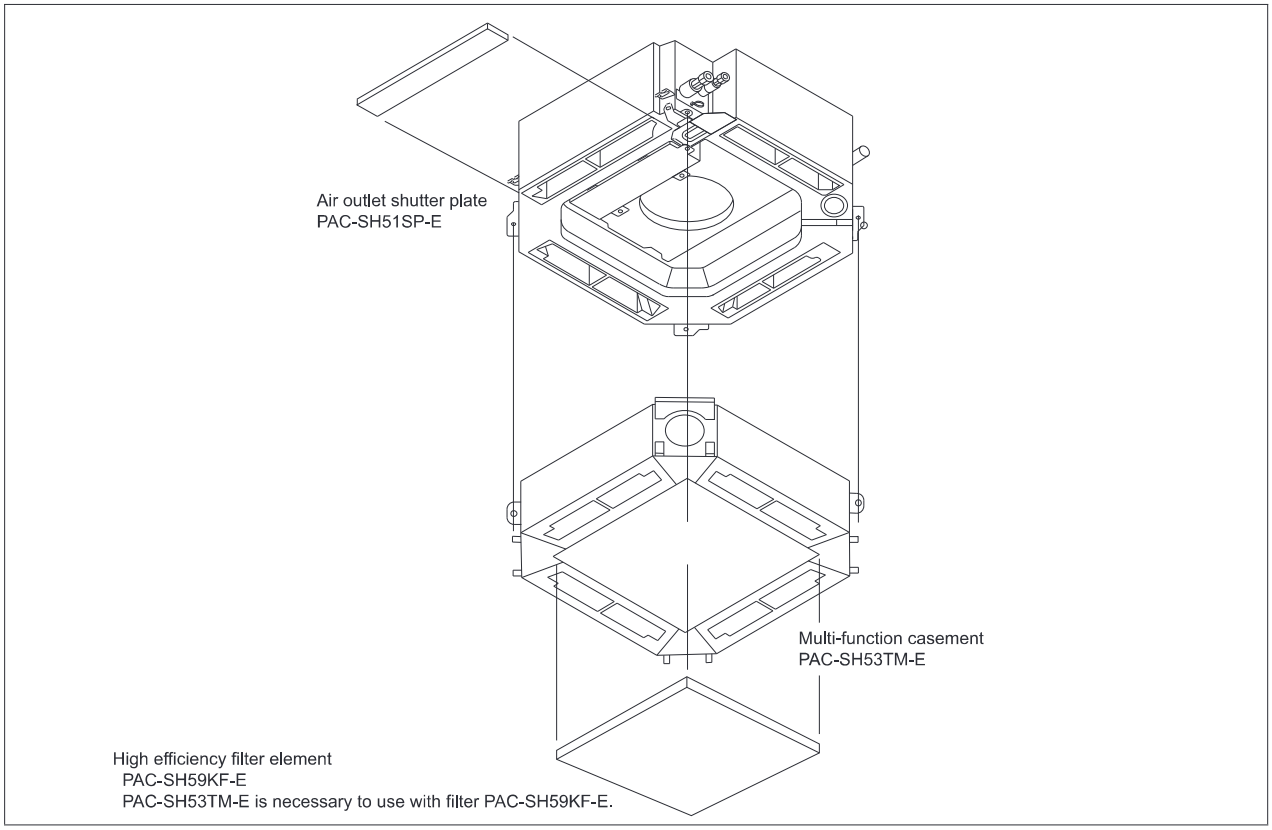
<Cooling mode>
Flow angle 30°



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.

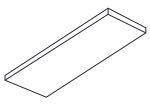
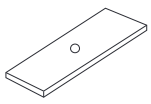
7-1. Optional parts line up for the Indoor unit

	Description	Model
PLFY-P-VFM-E PLFY-P-VBM-E	Air outlet shutter plate	PAC-SH51SP-E
	Multi-function casement	PAC-SH53TM-E
	High efficiency filter element	PAC-SH59KF-E
	i-see Sensor corner panel	PAC-SF1ME-E (for VFM)/PAC-SA1ME-E (for VBM)
	Automatic filter elevation panel	PLP-6BAJ
	Wireless signal receiver	PAR-SF9FA-E (for VFM)/PAR-SA9FA-E (for VBM)
	Space panel	PAC-SH48AS-E
	Duct flange for fresh air intake	PAC-SH65OF-E



7-2. Air outlet shutter plate

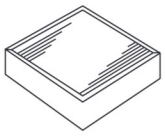
Using the air outlet shutter plate to block the air outlet to modify the air-way from 4 to 3 or 2.
With 1 PAC-SH51SP-E, 4 air-ways can be changed to 3;
With 2 PAC-SH51SP-E, 4 air-ways can be changed to 2;
Changing to 1 way is not allowed.
Material: Foamed polyethylene + foamed urethane, color: Black

Item	① Shutter plate	② Insulator	
Quantity	2	1	
Shape			

Detailed installation information should be referred to its Installation Manual.

7-3. High efficiency filter element

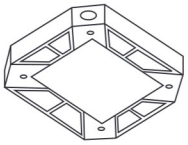
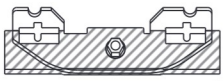
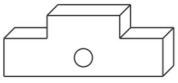
Life span: 2,500 hr (Dust concentration 0.15mg/m^3); Colorimetric method 65% (JIS 11 class); No re-production.
* The actual dust situation affects the filter life span, which should be considered at the applying site.
Material: Electrostatic polyolefin fiber
High efficiency filter element PAC-SH59KF-E should be used together with the Multi-function casement PAC-SH53TM-E. When using PAC-SH59KF-E, switching on SWC of the Indoor unit address board is needed. Details should be referred to its Installation Manual.

Quantity	1	
Shape		

Detailed installation information is referred in its Installation Manual.

7-4. Multi-function casement

Multi-function casement is used for High efficiency filter element and/or fresh air intake from outdoor.
It should be used with High efficiency filter element PAC-SH59KF-E (Colorimetric method 65%).
Fresh air intake on the Multi-function casement is possible from any 2 or less corners among the 4 ones.
But duct and flange on the casement should be prepare locally.

Item	① Multi-functional casement	② Screw with washer (black)	③ Screw
Quantity	1	4	8
Shape		M5X0.8X25 	M5X0.8X12 
Item	④ Decoretive panel securing bracket	⑤ Insulator A for Decorative panel	⑥ Insulator B for Decorative panel
Quantity	4	1	1
Shape	With insulator 		

Detailed installation information should be referred to its Installation Manual.

7-5. i-see sensor corner panel

i-see sensor provides comfortable space as it detects the floor temperature to prevent spotty temperature.
And that enables the unit to save energy.
Attention
Make sure that there are no gaps between the unit and the grille, and the grille and ceiling.
※ It may cause dew dripping.

Item	i-see sensor corner panel for VFM	i-see sensor corner panel for VBM	Plastic fastener
Quantity	1	1	2
Shape			

Detailed installation information should be referred to its Installation Manual.

7-6. Automatic filter elevation panel

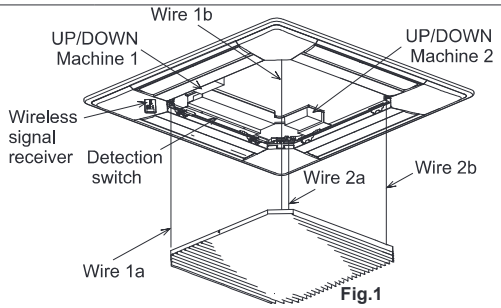
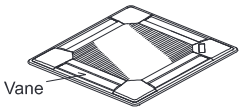
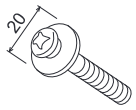
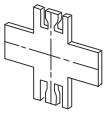
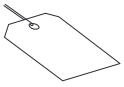


Fig.1

· Air intake grille can be lifted and lowered automatically by wired remote controller (MA type) or wireless remote controller (Item 9).
· Lowering the air intake grille allows you to clean the filter easily.
· You can set up eight different stages of lowering distance for the air intake grille according to the set up location if desired. (Maximum : 4m)

Item	Decorative panel	Screw with washer	Installation gauge	Plastic fastener
Quantity	1	4	1	3
Shape	 Vane	M5X0.8X25  20	 (Used split into four pieces)	
Item	Tag	Screw	Screw	Screw
Quantity	1	4	1	3
Shape		4X8  Only three are used	4X12 	M5X10 
Item	Wireless remote controller			
Quantity	1			
Shape				

Detailed installation information should be referred to its Installation Manual.

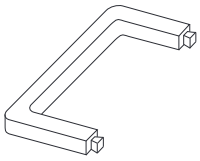
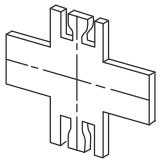
7-7. Wireless signal receiver

Wireless signal receiver PAR-SF9FA-E/PAR-SA9FA-E is necessary for using wireless remote controller PAR-SF9FA-E/PAR-SA9FA-E is a corner panel with the signal receiver for wireless remote controller.		
Item	Wireless signal receiver for VFM	Wireless signal receiver for VBM
Quantity	1	1
Shape		

Detailed installation information should be referred to its Installation Manual.

7-8. Space panel

*only for VBM

Decorative cover for the installation when the ceiling height is low.		
Item	Space panel	Gauge for installation
Quantity	2	1
Shape		

7-9. Duct flange for fresh air intake

*only for VBM

Part to attach a duct to take in fresh air from outdoors.			
Item	Duct flange	Insulator	Screws (M4 x 10)
Quantity	1	1	3
Shape	