

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

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1. SPECIFICATIONS

DATA G11

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	
		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	
			Current input	A	0.14	0.16
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 ₂ O)	0Pa (0mmH ₂ O)	0Pa (0mmH ₂ O)	
	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) 26-28-30	(Low-Mid-High) 26-29-31	(Low-Mid-High) 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		SLP-2FA/SLP-2FAE/SLP-2FAL/SLP-2FALE			
	Decoration panel		*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.	

PLFY-VFM/VBM

1. SPECIFICATIONS

DATA G11

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																				
		kcal / h	3,100	3,900	4,800																				
		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																				
		kcal / h	3,400	4,300	5,400																				
		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																				
		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)																				
Heat exchanger			Cross fin (Aluminum fin and copper tube)																						
FAN	Type x Quantity		Turbo fan x 1																						
	External static press.		0Pa (0mmH ₂ O)	0Pa (0mmH ₂ O)	0Pa (0mmH ₂ O)																				
	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) 26-30-34	(Low-Mid-High) 28-33-39	(Low-Mid-High) 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.																							
<p>Note :</p> <table border="0"> <tr> <td>*1 Nominal cooling condition</td> <td>*2 Nominal cooling condition</td> <td>*3 Nominal heating condition</td> <td>Unit converter</td> </tr> <tr> <td>Indoor : 27°CDB/19°CWB (81°FDB/66°FWB)</td> <td>27°CDB/19.5°CWB (81°FDB/67°FWB)</td> <td>20°CDB (68°FDB)</td> <td>kcal/h = kW x 860</td> </tr> <tr> <td>Outdoor : 35°CDB (95°FDB)</td> <td>35°CDB (95°FDB)</td> <td>7°CDB/6°CWB (45°FDB/43°FWB)</td> <td>BTU/h = kW x 3,412</td> </tr> <tr> <td>Pipe length : 7.5 m (24-9/16 ft)</td> <td>5 m (16-3/8 ft)</td> <td>7.5 m (24-9/16 ft)</td> <td>cfm = m³/min x 35.31</td> </tr> <tr> <td>Level difference : 0 m (0 ft)</td> <td>0 m (0 ft)</td> <td>0 m (0 ft)</td> <td>lbs = kg / 0.4536</td> </tr> </table> <p>* Nominal conditions *1, *3 are subject to JIS B8615-1. * Due to continuing improvement, above specification may be subject to change without notice.</p> <p>*Above specification data is subject to rounding variation.</p>						*1 Nominal cooling condition	*2 Nominal cooling condition	*3 Nominal heating condition	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 ³ /min x 35.31	Level difference : 0 m (0 ft)	0 m (0 ft)	0 m (0 ft)	lbs = kg / 0.4536
*1 Nominal cooling condition	*2 Nominal cooling condition	*3 Nominal heating condition	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 ³ /min x 35.31																						
Level difference : 0 m (0 ft)	0 m (0 ft)	0 m (0 ft)	lbs = kg / 0.4536																						

PLFY-VFM/BM

1. SPECIFICATIONS

DATA G11

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	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 static press.	Pa	0	0	0	0	
		mmH ₂ O	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 (measured in anechoic room)		*4	dB <A>	(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)	
				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	Installation Manual, Instruction Book					
	Accessory						
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	*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 ³ /min x 35.31		
Level difference :		0 m (0 ft)	0 m (0 ft)	0 m (0 ft)	lbs = 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.					
		*4 The values are measured at the rated external static pressure.					
		*Above specification data is subject to rounding variation.					

1. SPECIFICATIONS

DATA G11

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	35 x 950 x 950				
		H x W x D	1-3/8 x 37-7/16 x 37-7/16				
		Net weight	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
			mmHzO	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 (measured in anechoic room)		*4	dB <A>	(Low-Mid2-Mid1-High) 27 - 28 - 30 - 31	(Low-Mid2-Mid1-High) 28 - 29 - 30 - 32	(Low-Mid2-Mid1-High) 30 - 32 - 35 - 37	(Low-Mid2-Mid1-High) 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	Installation Manual, Instruction Book				
		Accessory					
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	*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 ³ /min x 35.31		
		Level difference : 0 m (0 ft)	0 m (0 ft)	0 m (0 ft)	lbs = 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.					
		*4 The values are measured at the rated external static pressure.					
		*Above specification data is subject to rounding variation.					

PLFY-VFMVBM

1. SPECIFICATIONS

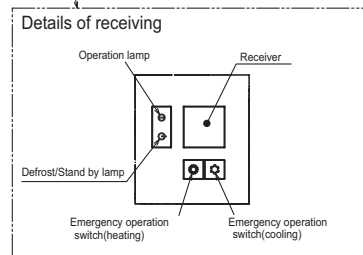
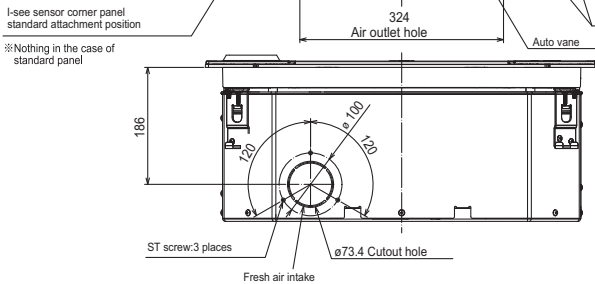
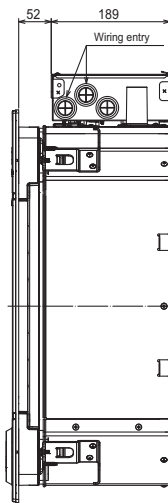
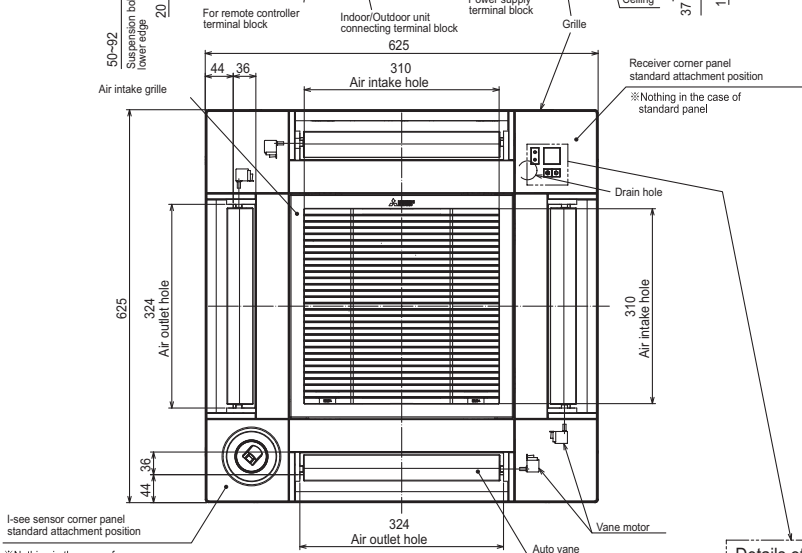
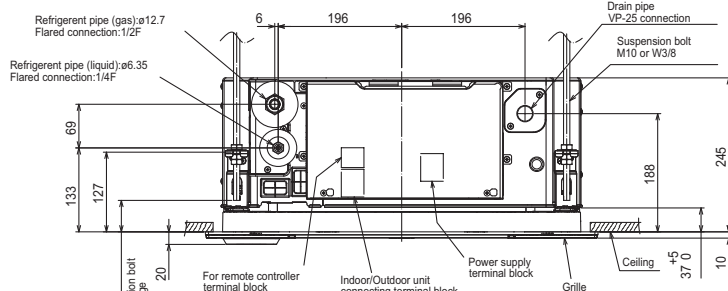
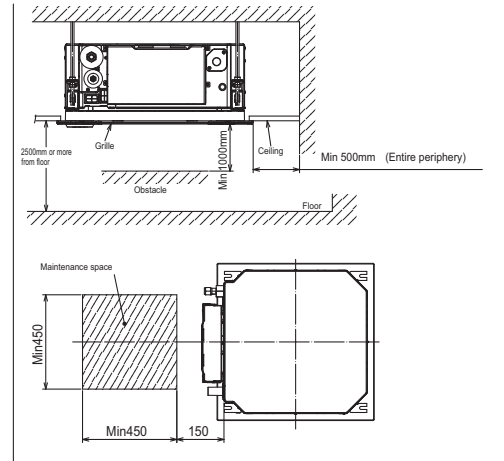
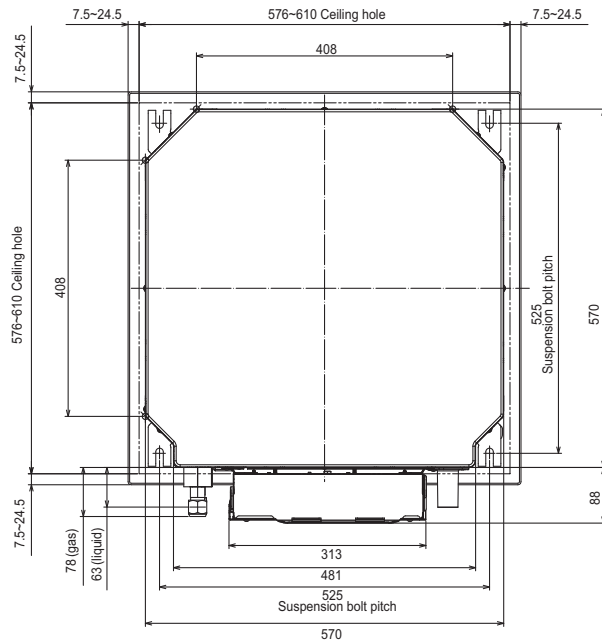
DATA G11

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 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	
	External static press.	Pa	0	
		mmH ₂ O	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	Installation Manual, Instruction Book		
	Accessory			
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		*2 Nominal cooling conditions	
	Indoor : 27°CDB/19°CWB (81°FDB/66°FWB)		27°CDB/19.5°CWB (81°FDB/67°FWB)	
	Outdoor : 35°CDB (95°FDB)		35°CDB (95°FDB)	
	Pipe length : 7.5 m (24-9/16 ft)		5 m (16-3/8 ft)	
	Level difference : 0 m (0 ft)		0 m (0 ft)	
		*3 Nominal heating conditions	Unit converter	
		20°CDB (68°FDB)	kcal/h = kW x 860	
		7°CDB/6°CWB (45°FDB/43°FWB)	BTU/h = kW x 3,412	
		7.5 m (24-9/16 ft)	cfm = m ³ /min x 35.31	
		0 m (0 ft)	lbs = kg / 0.4536	
			*Above specification data is subject to rounding variation.	
* 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.				

PLFY-VFM/VBM

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

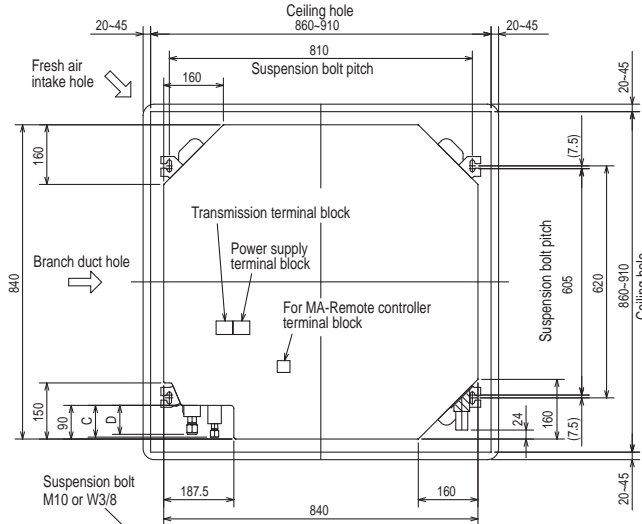
Unit: mm



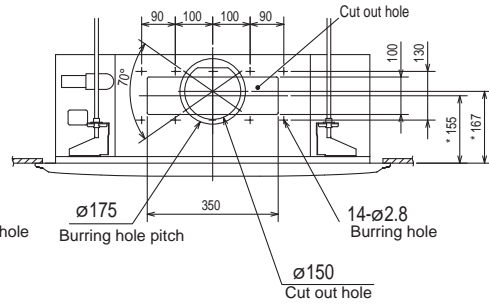
PLFY-VFMVBM

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

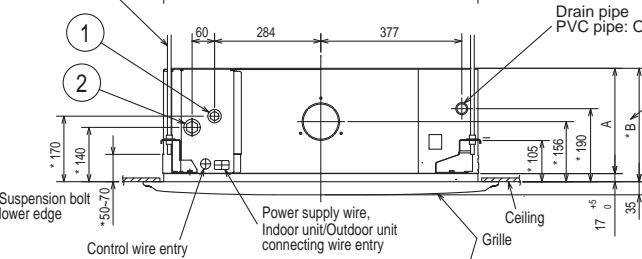
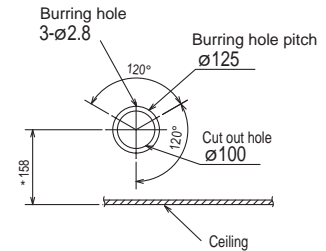
Unit: mm



Detail connecting of Branch duct (Both aspects)



Detail drawing of fresh air intake hole



Drain pipe PVC pipe: O.D. 32 (1-1/4") (Connected the attached flexible pipe or socket. I.D. 32 (1-1/4"))
 Keep approximately 10 to 15 mm space between unit ceiling and ceiling slab.

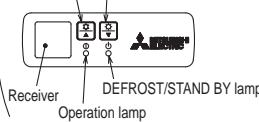
In case of standard grille : PLP-6BA



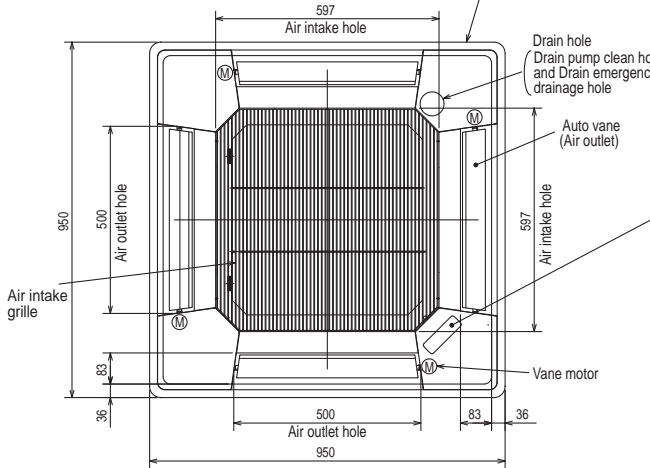
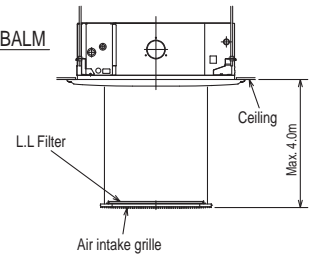
In case of Auto-Grille : PLP-6BAJ

In case of wireless remote controller : PLP-6BALM

Emergency operation switch <Cooling> and Emergency Up/Down switch <Up>
 Emergency operation switch <Heating> and Emergency Up/Down switch <Down>

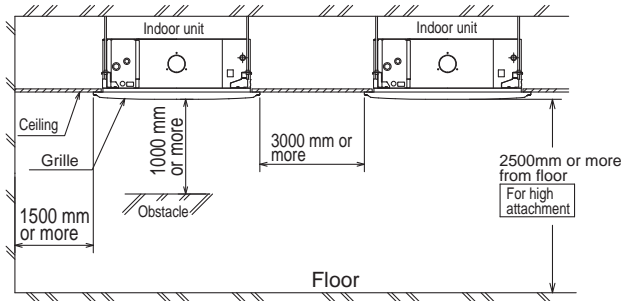


Auto-Grille Air intake grille Up/down distance



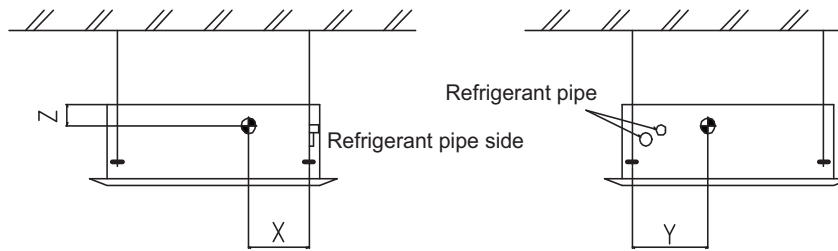
- Note 1. Please choose the Grille from a standard grille, Auto-Grille.
 2. As for drain pipe, please use VP-25 (O.D. ø32 PVC TUBE). Drain pump inclusion. Raise is max 850mm from the ceiling.
 3. As for suspension bolt, please use M10 or W3/8. (Procured at local site)
 4. Electrical box may be removed 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			80	74	
PLFY-P50VBM-E	Refrigerant pipe ø6.35 / ø9.52 Flared connection 1/4F / 3/8F (compatible)	Refrigerant pipe ø12.7 Flared connection 1/2F	241	258	87	78	400
PLFY-P63,80VBM-E	Refrigerant pipe--3/8F Flared connection--ø9.52	Refrigerant pipe--ø15.88 Flared connection--5/8F				77	
PLFY-P100,125VBM-E		Refrigerant pipe ø15.88 Flared connection 5/8F	281	298	85	81	440

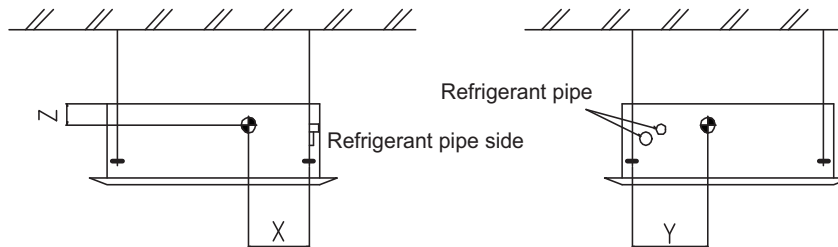
PLFY-P15, 20, 25, 32, 40, 50VFM-E



(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]

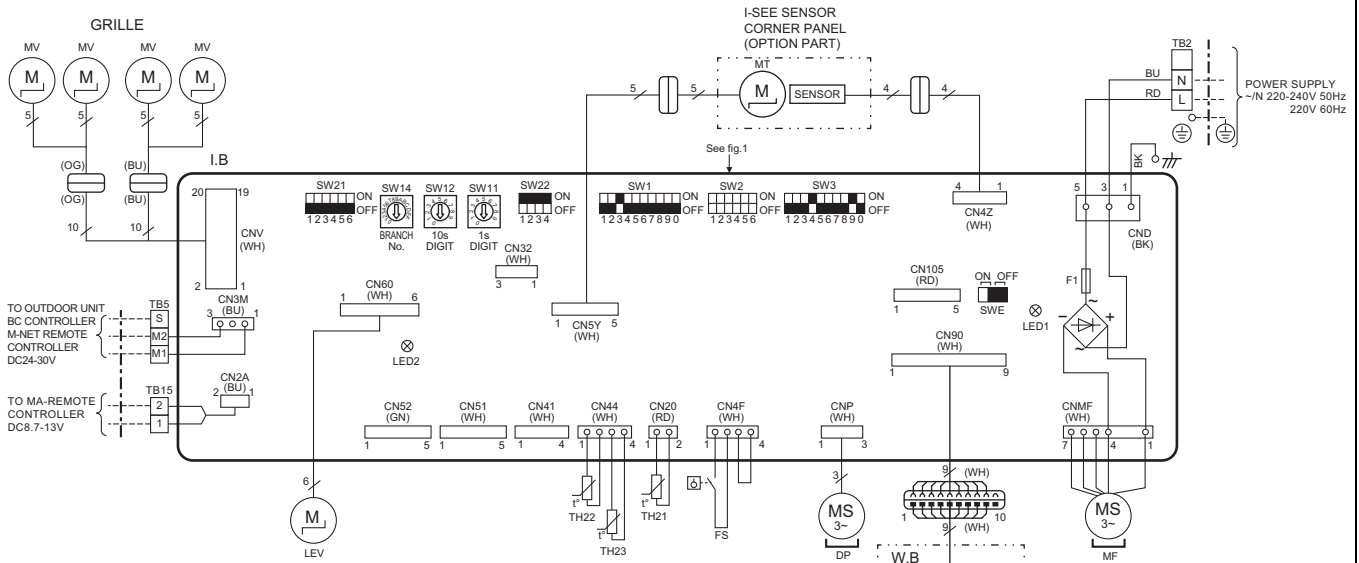
PLFY-P20, 25, 32, 40, 50, 63, 80, 100, 125VBM-E



(mm)[in]

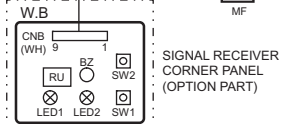
Model name	X	Y	Z
PLFY-P20VBM-E	280 [11-1/32]	400 [15-3/4]	105 [4-5/32]
PLFY-P25VBM-E	280 [11-1/32]	400 [15-3/4]	105 [4-5/32]
PLFY-P32VBM-E	280 [11-1/32]	400 [15-3/4]	105 [4-5/32]
PLFY-P40VBM-E	280 [11-1/32]	400 [15-3/4]	105 [4-5/32]
PLFY-P50VBM-E	280 [11-1/32]	400 [15-3/4]	105 [4-5/32]
PLFY-P63VBM-E	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 POWER SUPPLY
TB5	BLOCK 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.

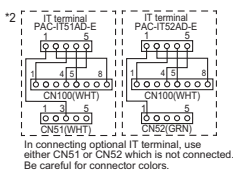
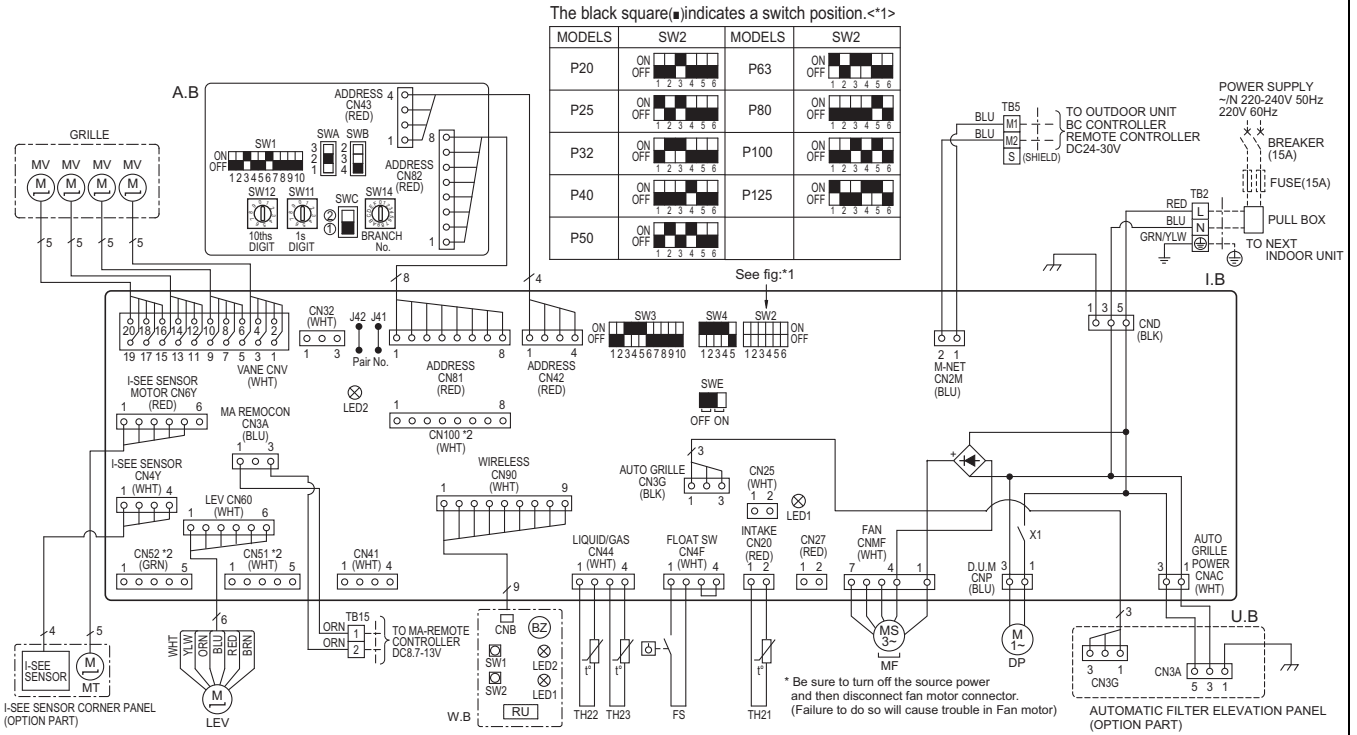
Notes:

- At servicing for outdoor unit, always follow the wiring diagram of outdoor unit.
- In case of using MA-Remote controller, please connect to TB15.
(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.

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

[LEGEND]

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
I. B	INDOOR CONTROLLER BOARD	DP	DRAIN-UP MACHINE	A. B	ADDRESS BOARD
CN27	CONNECTOR DAMPER	FS	DRAIN FLOAT SWITCH	SWA	SWITCH CEILING HEIGHT SELECTOR
CN32	CONNECTOR REMOTE SWITCH	LEV	LINEAR EXPANSION VALVE	SWB	SWITCH DISCHARGE OUTLET NUMBER SELECTOR
CN51	CONNECTOR CENTRALLY CONTROL	MF	FAN MOTOR	SWC	SWITCH OPTION SELECTOR
CN52	CONNECTOR REMOTE INDICATION	MV	VANE MOTOR	SW1	SWITCH MODE SELECTION
CH100	IT TERMINAL	TB2	TERMINAL POWER SUPPLY	SW11	SWITCH ADDRESS SETTING 1s DIGIT
FUSE	FUSE(T6.3AL250V)	TB5	TERMINAL BLOCK TRANSMISSION	SW12	SWITCH ADDRESS SETTING 10ths DIGIT
LED1	POWER SUPPLY(L. B)	TB15	TERMINAL BLOCK MA-REMOTE CONTROLLER	SW14	SWITCH ADDRESS CONNECTION NO.
LED2	POWER SUPPLY(L. B)	TH21	THERMISTOR ROOM TEMP. DETECTION (0°C / 15kΩ, 25°C / 5.4kΩ)	OPTION PART	
SW2	SWITCH CAPACITY CODE	TH22	THERMISTOR PIPE TEMP. DETECTION / LIQUID (0°C / 15kΩ, 25°C / 5.4kΩ)	W.B	PCB FOR WIRELESS REMOTE CONTROLLER
SW3	SWITCH MODE SELECTION	TH23	THERMISTOR PIPE TEMP. DETECTION / GAS (0°C / 15kΩ, 25°C / 5.4kΩ)	BZ	BUZZER
SW4	SWITCH MODEL SELECTION			LED1	LED(OPERATION INDICATION : GREEN)
SWE	SWITCH DRAIN-UP MACHINE(TEST MODE)			LED2	LED(PREPARATION FOR HEATING : ORANGE)
X1	AUX. RELAY DRAIN WATER LIFTING-UP MACH.			RU	RECEIVING UNIT
				SW1	EMERGENCY OPERATION(HEAT / DOWN)
				SW2	EMERGENCY OPERATION(COOL / UP)



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 fig<*1>.

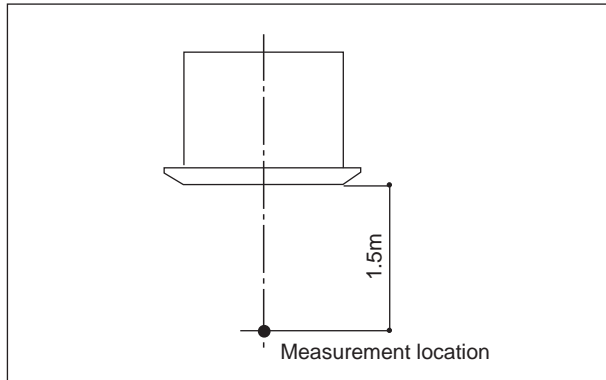
LED on indoor board for service

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-VFMVBM

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

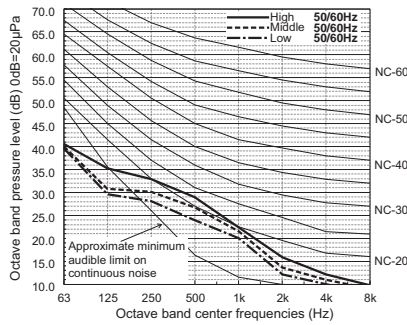
	Sound level dB (A)
PLFY-P20VBM-E	27-28-29-31
PLFY-P25VBM-E	
PLFY-P32VBM-E	
PLFY-P40VBM-E	27-28-30-31
PLFY-P50VBM-E	
PLFY-P63VBM-E	28-29-30-32
PLFY-P80VBM-E	30-32-35-37
PLFY-P100VBM-E	34-37-39-41
PLFY-P125VBM-E	35-38-41-43

5-2. NC curves

PLFY-VFM/VBM

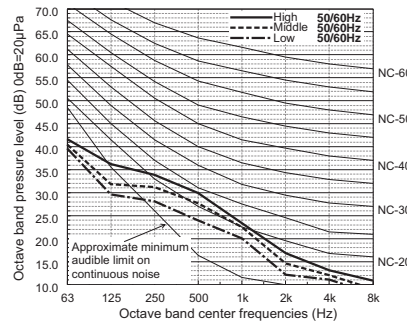
PLFY-P15VFM-E

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



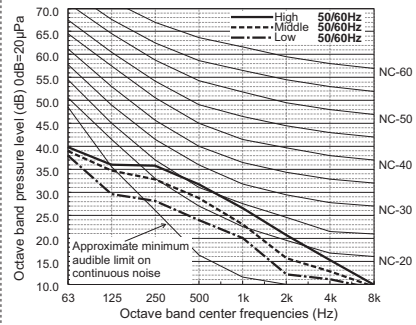
PLFY-P20VFM-E

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



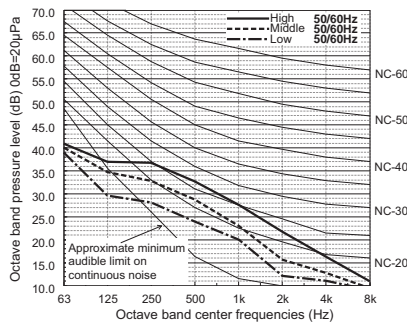
PLFY-P25VFM-E

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



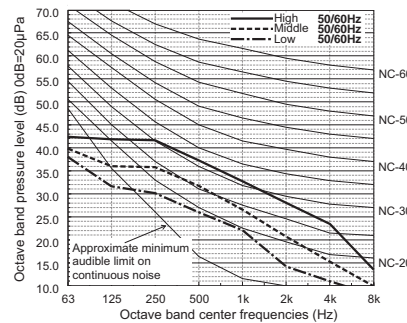
PLFY-P32VFM-E

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



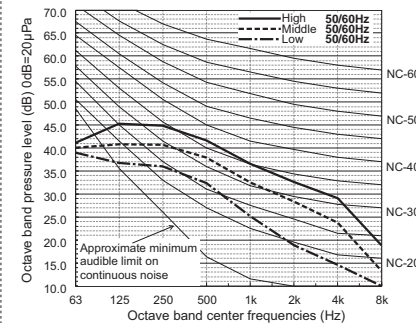
PLFY-P40VFM-E

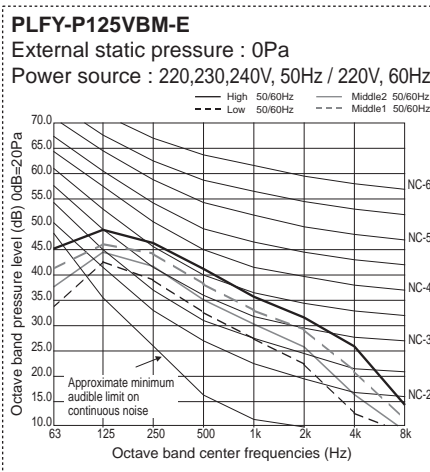
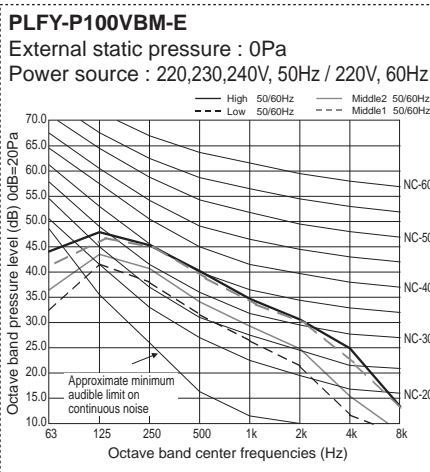
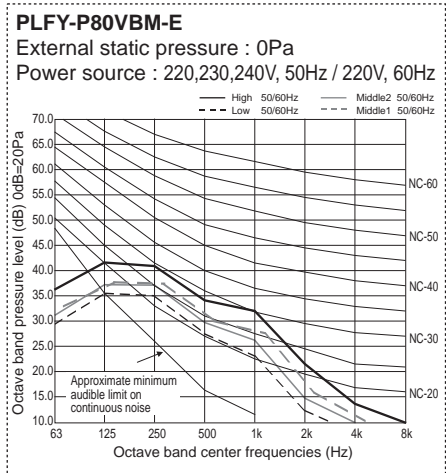
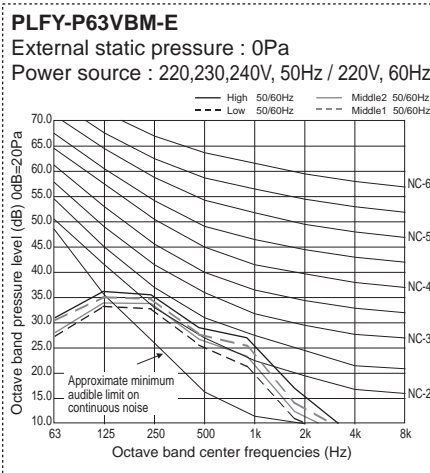
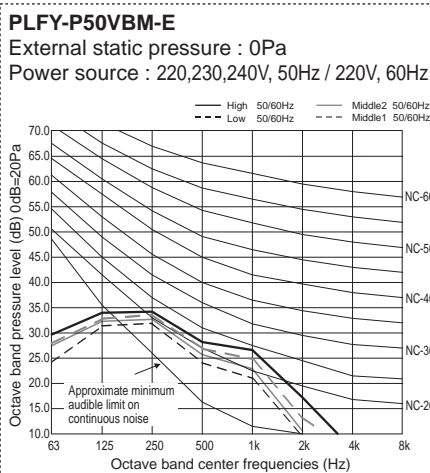
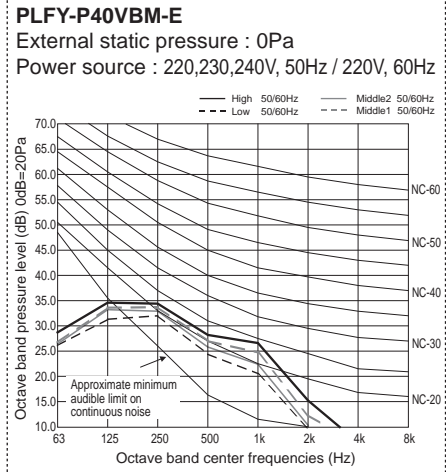
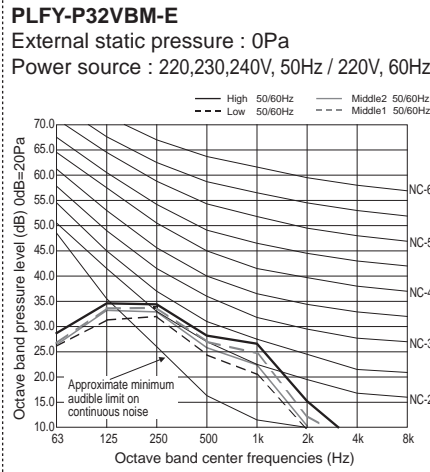
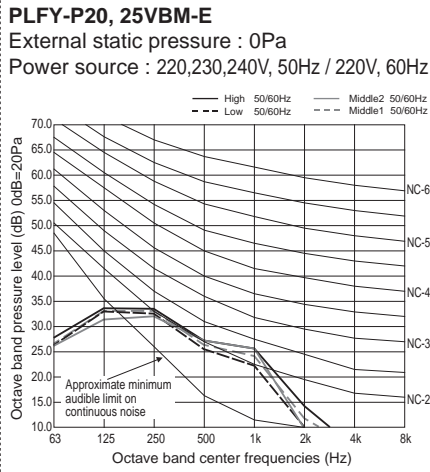
External Static Pressure: 0Pa [0.00in.WG]
Power Source: 220,230,240V, 50Hz/220V, 60Hz



PLFY-P50VFM-E

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





PLFY-VFMVBM

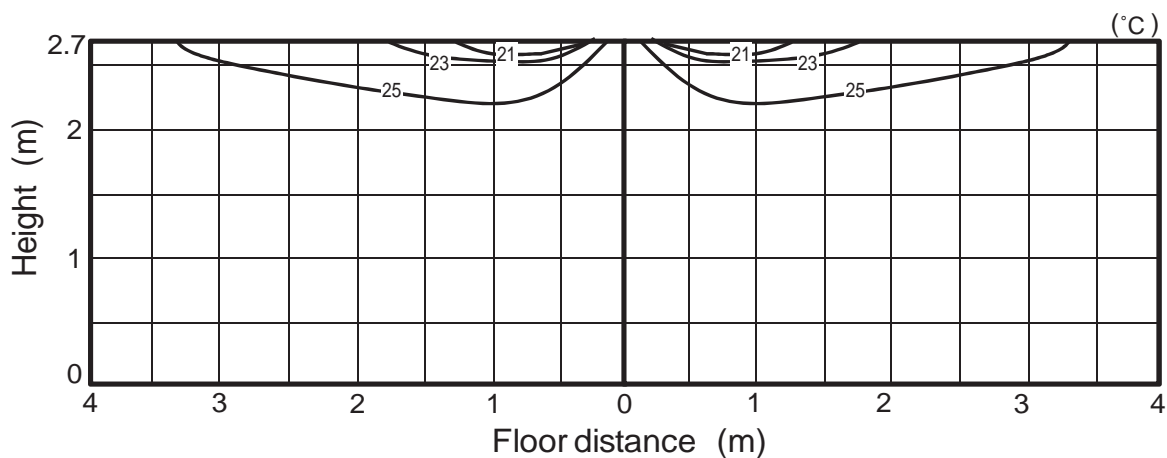
6-1. Temperature distributions

PLFY-P15-50VFM-E

<Cooling mode>

Horizontal

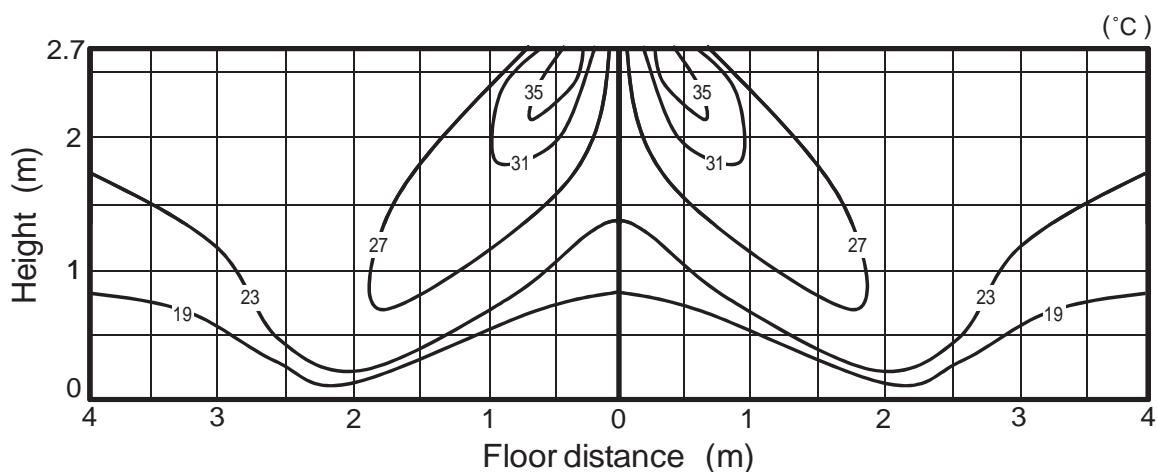
Ceiling height : 2.7m



<Heating mode>

Downward

Ceiling height : 2.7m

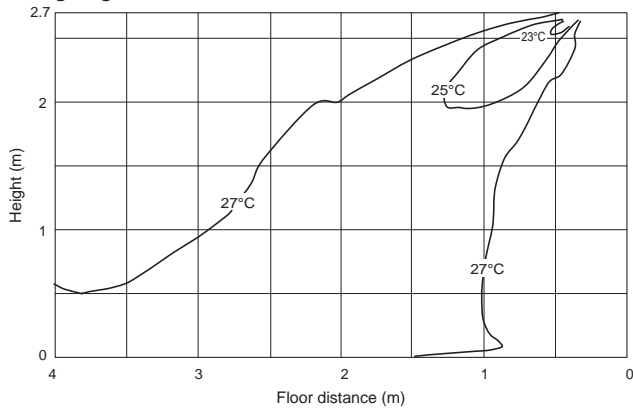


Note : These figures show typical temperature distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

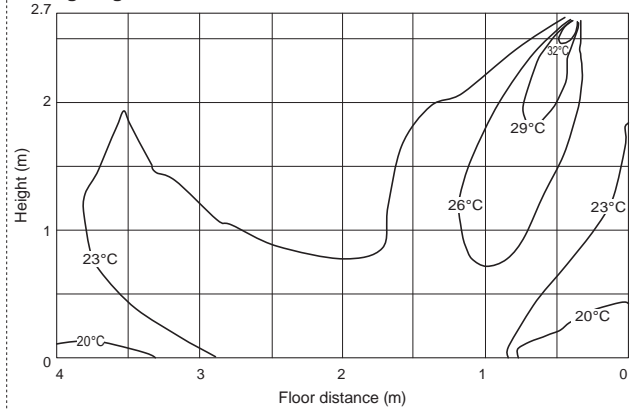
PLFY-VFM/VBM

PLFY-P-VBM-E

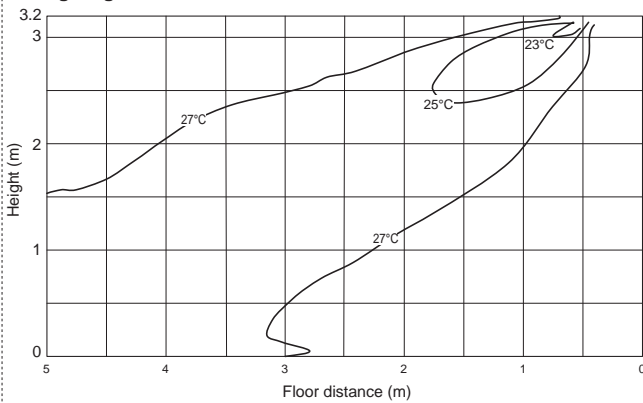
• PLY-P20-80VBM-E
 <Cooling mode> Standard
 Flow angle : 30° 4-way flow
 ceiling height : 2.7 m



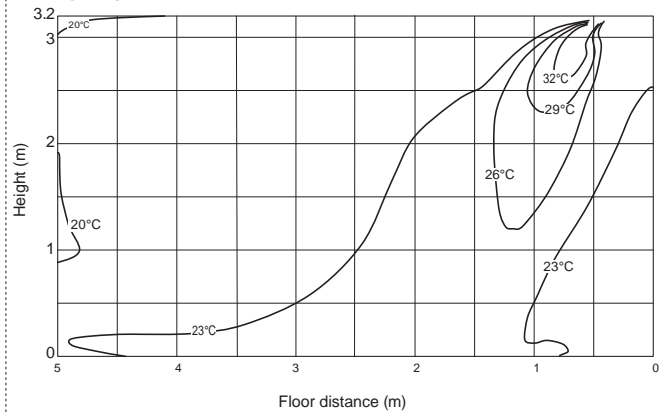
<Heating mode> Standard
 Flow angle : 60° 4-way flow
 ceiling height : 2.7 m



• PLY-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



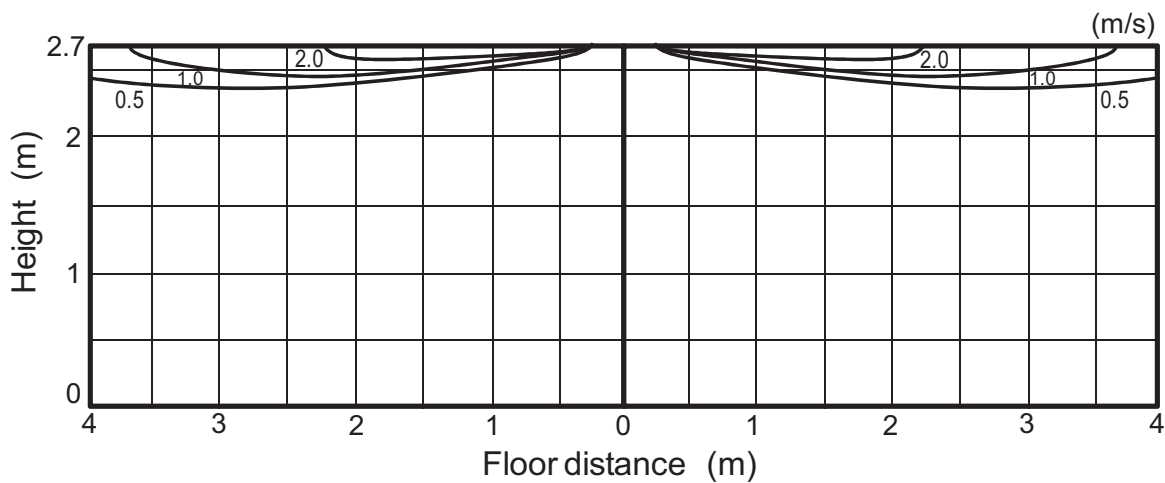
PLFY-VFMVBM

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.

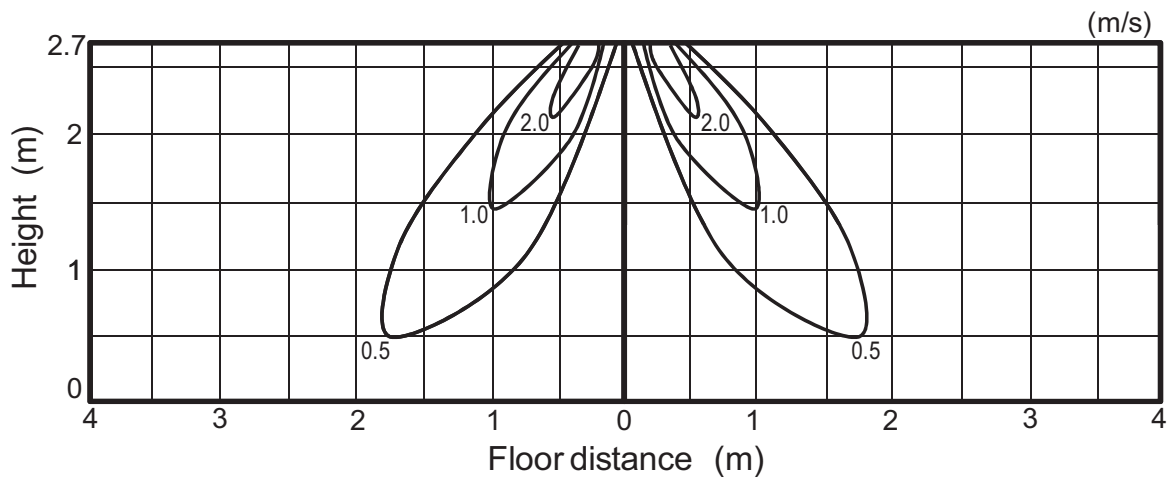
6-2. Airflow distributions

PLFY-P15-50VFM-E

<Cooling mode>
Horizontal
Ceiling height : 2.7m



<Heating mode>
Downward
Ceiling height : 2.7m

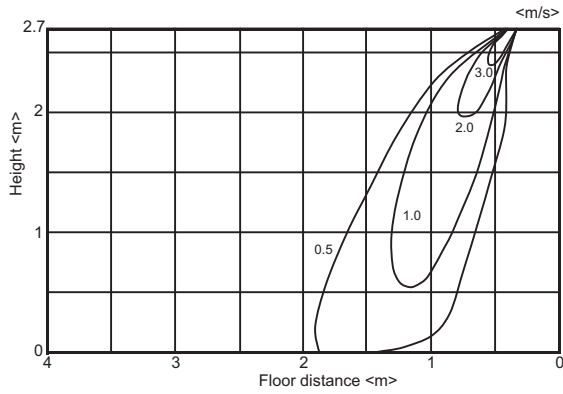


Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

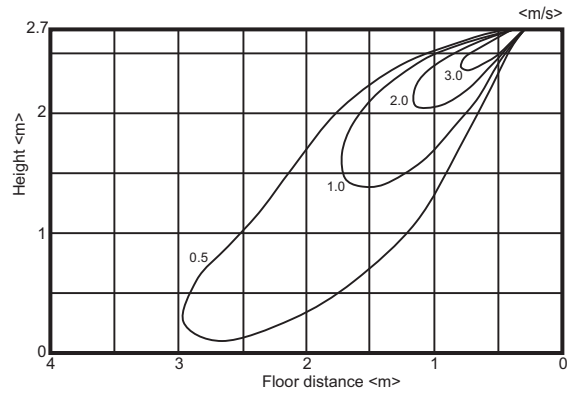
PLFY-VFM/VBM

PLFY-P20-80VBM-E

<Heating mode>
Flow angle 60°

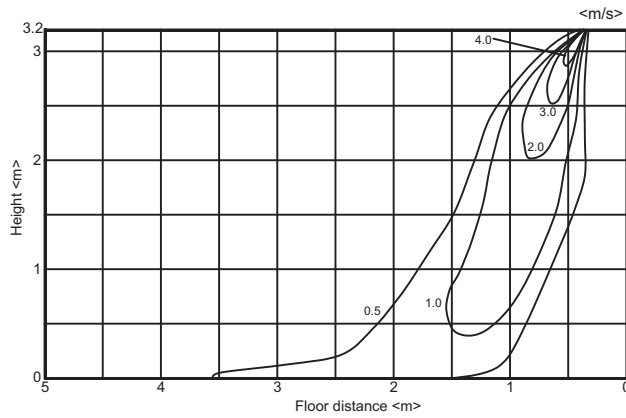


<Cooling mode>
Flow angle 30°

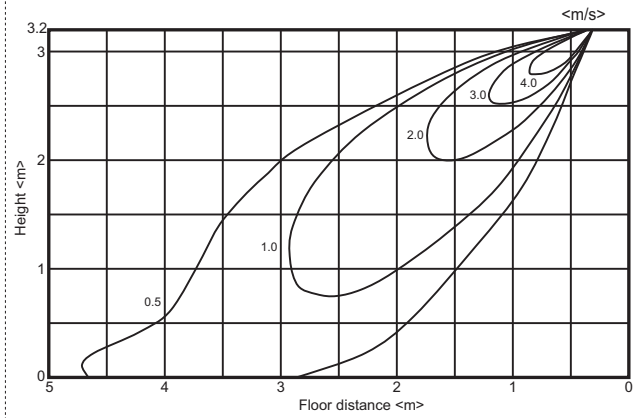


PLFY-P100, 125VBM-E

<Heating mode>
Flow angle 60°



<Cooling mode>
Flow angle 30°

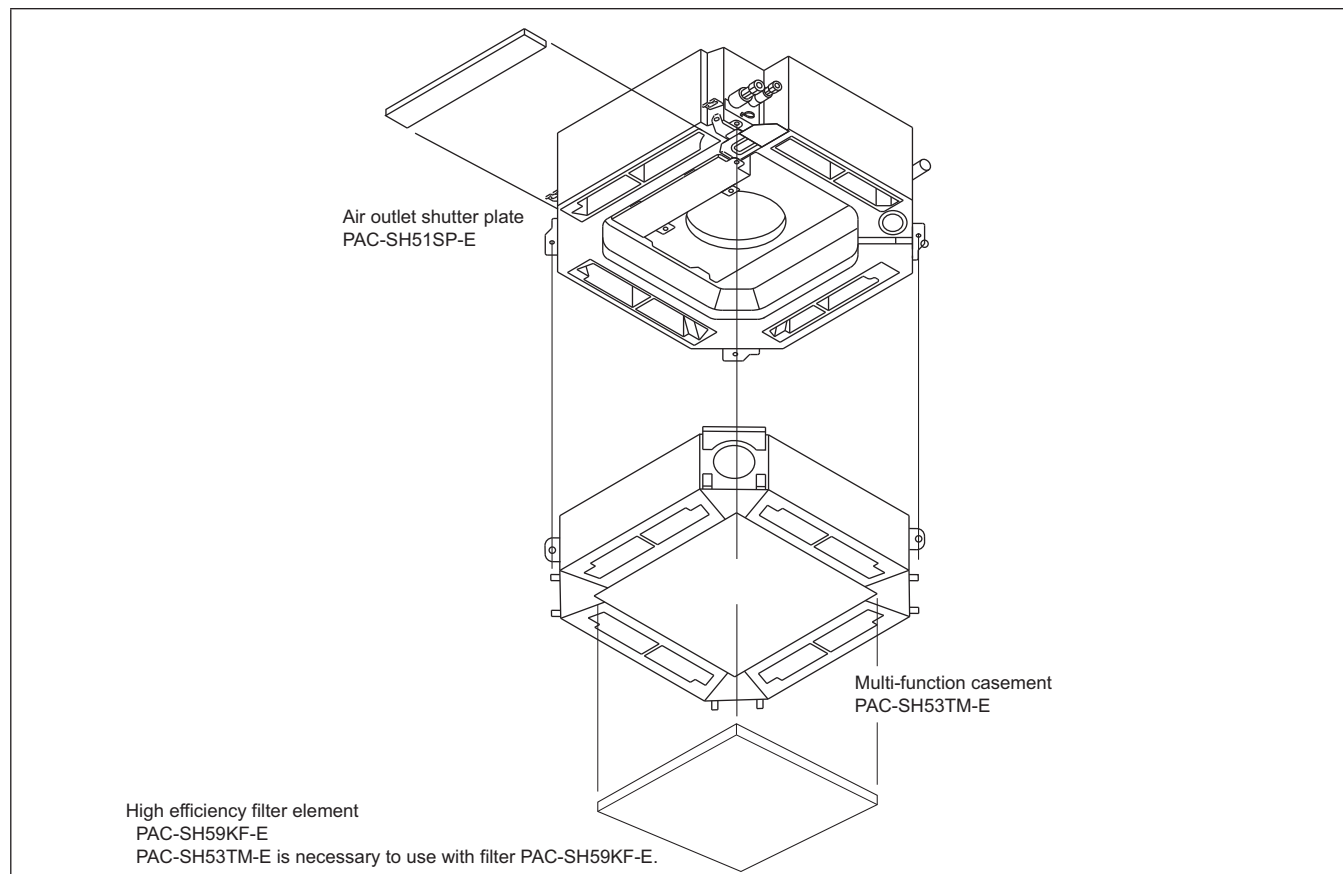


Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

PLFY-VFMVBM

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.

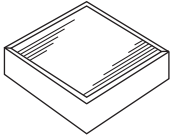
Material: Foamed polyethylene + foamed urethane, color: Black

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

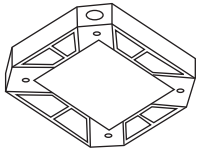


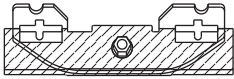
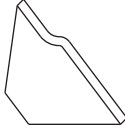
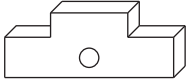
Life span: 2,500 hr (Dust concentration 0.15mg/m³); Colorimetric method 65% (JIS 11 class); No re-production.
 * The actual dust situation affects the filter life span, which should be considered at the applying site.
 Material: Electrostatic polyolefin fiber
 High efficiency filter element PAC-SH59KF-E 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 Decorative 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

PLFY-VFM/VBM

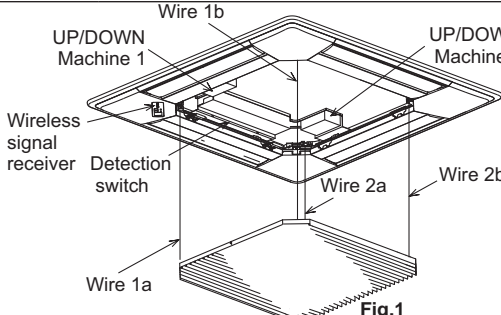
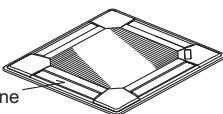

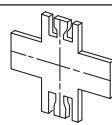

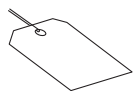






Fig.1

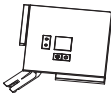

- Air intake grille can be lifted and lowered automatically by wired remote controller (MA type) or wireless remote controller (Item 9).
- Lowering the air intake grille allows you to clean the filter easily.
- You can set up eight different stages of lowering distance for the air intake grille according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

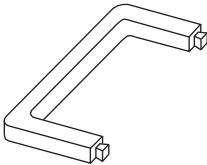
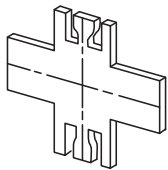
Item	Wireless signal receiver for VFM	Wireless signal receiver for VBM
Quantity	1	1
Shape		

Detailed installation information should be referred to its Installation Manual.

7-8. Space panel

*only for VBM

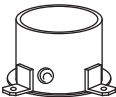
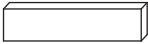

Decorative cover for the installation when the ceiling height is low.

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			

PLY-VFM/VBM

