

PLFY-P-VLMD-E

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R410A Data G8

Ref.: Spec. PLFY-P20VLM-D-E 1

1. SPECIFICATIONS

R410A Data G8

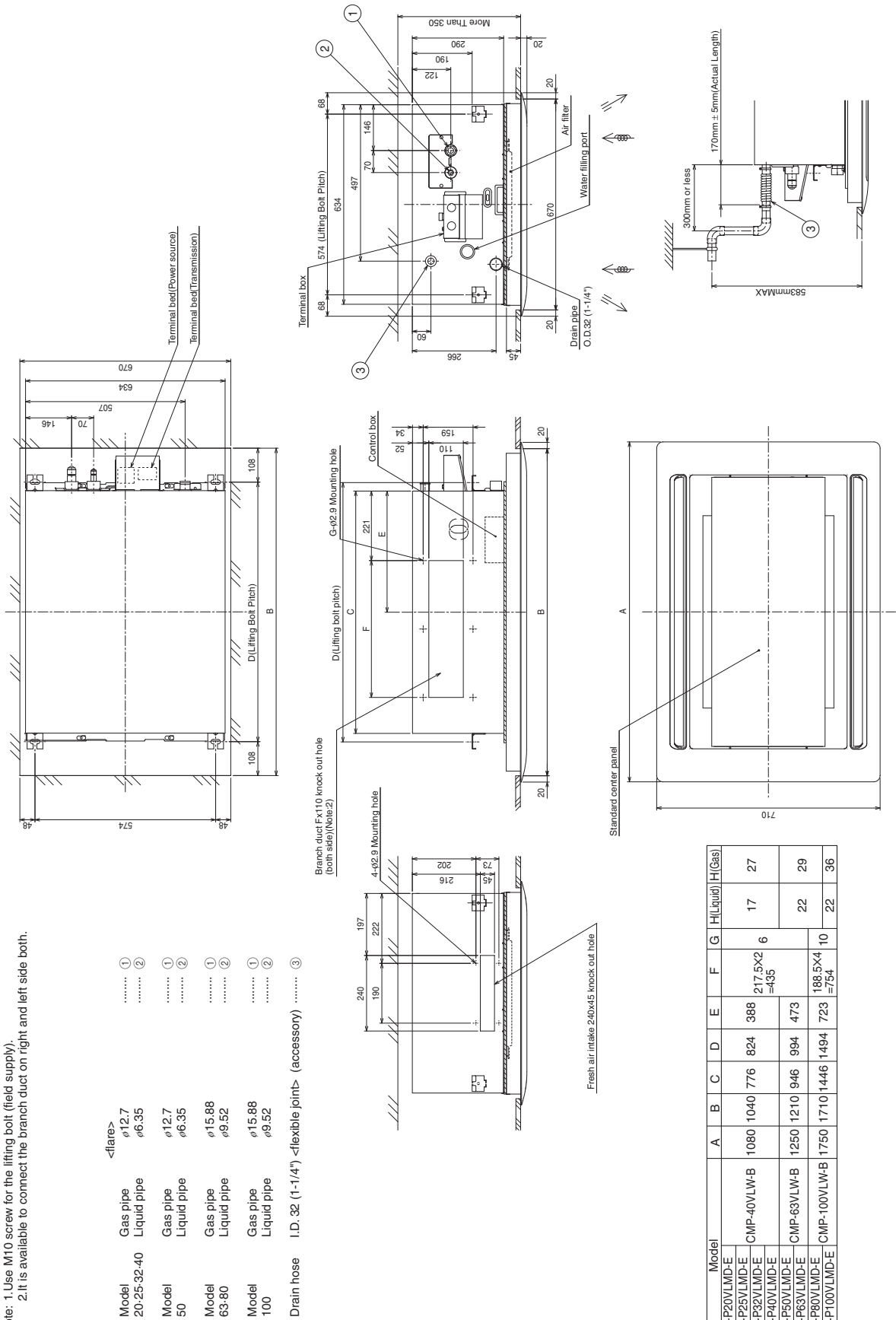
Model			PLFY-P50VLMD-E	PLFY-P63VLMD-E	PLFY-P80VLMD-E	PLFY-P100VLMD-E	PLFY-P125VLMD-E	
Power source			1-phase 220-240V 50Hz, 1-phase 220-230V 60Hz					
Cooling capacity (Nominal)	*1	kW	5.6	7.1	9.0	11.2	14.0	
	*1	kcal / h	4,800	6,100	7,700	9,600	12,000	
	*1	Btu / h	19,100	24,200	30,700	38,200	47,800	
	*2	kcal / h	5,000	6,300	8,000	10,000	12,500	
	*4	Power input	kW	0.082 / 0.086	0.101 / 0.105	0.147 / 0.156	0.157 / 0.186	0.28 / 0.28
*4	Current input	A	0.41 / 0.43	0.49 / 0.51	0.72 / 0.74	0.75 / 0.88	1.35 / 1.35	
Heating capacity (Nominal)	*3	kW	6.3	8.0	10.0	12.5	16.0	
	*3	kcal / h	5,400	6,900	8,600	10,800	13,800	
	*3	Btu / h	21,500	27,300	34,100	42,700	54,600	
	*4	Power input	kW	0.075 / 0.080	0.094 / 0.099	0.140 / 0.150	0.150 / 0.180	0.27 / 0.27
	*4	Current input	A	0.35 / 0.38	0.43 / 0.46	0.66 / 0.69	0.69 / 0.83	1.33 / 1.33
External finish			Unit : Galvanized					
External dimension H x W x D		mm	290 x 946 x 634		290 x 1,446 x 634		290 x 1,708 x 606	
		in.	11-7/16 x 37-1/4 x 25		11-7/16 x 56-15/16 x 25		11-7/16 x 67-1/4 x 23-7/8	
Net weight		kg (lb)	27 (60)	28 (62)	44 (98)	47 (104)	56 (124)	
Decoration panel	Model		CMP-63VLW-C	CMP-63VLW-C	CMP-100VLW-C	CMP-100VLW-C	CMP-125VLW-C	
	External finish		ABS, MUNSELL (6.4Y 8.9/0.4), include Service Panel : Galvanized, MUNSELL (6.4Y 8.9/0.4)					
	Dimension H x W x D	mm	20 x 1,250 x 710		20 x 1,750 x 710		20 x 2,010 x 710	
		in.	13/16 x49-1/4 x 28		13/16 x 56-15/16 x 28		13/16 x 67-1/4 x 28	
	Net Weight		kg (lb)	7.5 (17)		12.5 (28)		13.0 (29)
Heat exchanger			Cross fin					
FAN	Type x Quantity		Turbo fan x 1	Turbo fan x 1	Turbo fan x 2	Turbo fan x 2	Sirocco fan x 4	
	External static press.	Pa	0	0	0	0	0	
		mmH ₂ O	0	0	0	0	0	
	Motor type		1-phase induction motor					
	Motor output	kW	0.020 (at 240V)	0.020 (at 240V)	0.020 (at 240V)	0.030 (at 240V)	0.078 x 2 (at 240V)	
	Driving mechanism		Direct-driven by motor					
	Airflow rate (Low-Mid-High)	m ³ / min	9.0 - 11.0 - 12.5	10.0 - 13.0 - 15.5	15.5 - 18.5 - 22.0	17.5 - 21.0 - 25.0	24.0 - 27.0 - 30.0 - 33.0	
		L / s	150 - 183 - 208	167 - 217 - 258	258 - 308 - 367	292 - 350 - 417	400 - 450 - 500 - 550	
cfm		318 - 388 - 441	353 - 459 - 547	547 - 653 - 777	618 - 742 - 883	848 - 953 - 1,059 - 1,165		
Sound pressure level (Low-Mid-High) (measured in anechoic room)	*4	dB <A>	31 - 34 - 37 (220, 240V)	32 - 37 - 39 (220, 240V)	33 - 36 - 39 (220, 240V)	36 - 39 - 42 (220, 240V)	40 - 42 - 44 - 46 (220, 240V)	
		dB <A>	32 - 35 - 38 (230V)	33 - 38 - 40 (230V)	34 - 37 - 40 (230V)	37 - 41 - 43 (230V)	40 - 42 - 44 - 46 (230V)	
Insulation material			Polystyrene foam, Polyethylene foam, Urethane foam					
Air filter			PP honeycomb fabric (long life filter)					
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	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	ø15.88 (ø5/8) Flare	
Field drain pipe size		mm (in.)	O.D. 32mm (1-1/4)					
Drawing	External		IU-W275-920	IU-W275-920	IU-W275-920	IU-W275-920	IU-W275-921	
	Wiring		IU-W653-952	IU-W653-952	IU-W653-952	IU-W653-952	IU-W275-927	
	Refrigerant cycle		-	-	-	-	-	
Standard attachment	Document		Installation Manual, Instruction Book					
	Accessory		Drain hose I.D. 32mm (1-1/4) (flexible joint)					
Remark	Optional parts							
	Decoration panel		CMP-63VLW-C	CMP-63VLW-C	CMP-100VLW-C	CMP-100VLW-C	CMP-125VLW-C	
	OA duct flange		PAC-KH110F	PAC-KH110F	PAC-KH110F	PAC-KH110F	PAC-KH110F	
	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) Unit converter kcal/h = kW x 860 Btu/h = kW x 3,412 cfm = m³/min x 35.31 lb = kg / 0.4536 * Nominal conditions *1, *3 are subject to JIS B8615-1. * Due to continuing improvement, above specification may be subject to change without notice. *4 The values are measured at the rated external static pressure. Above specification data is subject to rounding variation.								

Ref.: Spec_PLFY-P20VLMD-E_2

PLFY

PLFY-P20,25,32,40,50,63,80,100VLM-D-E

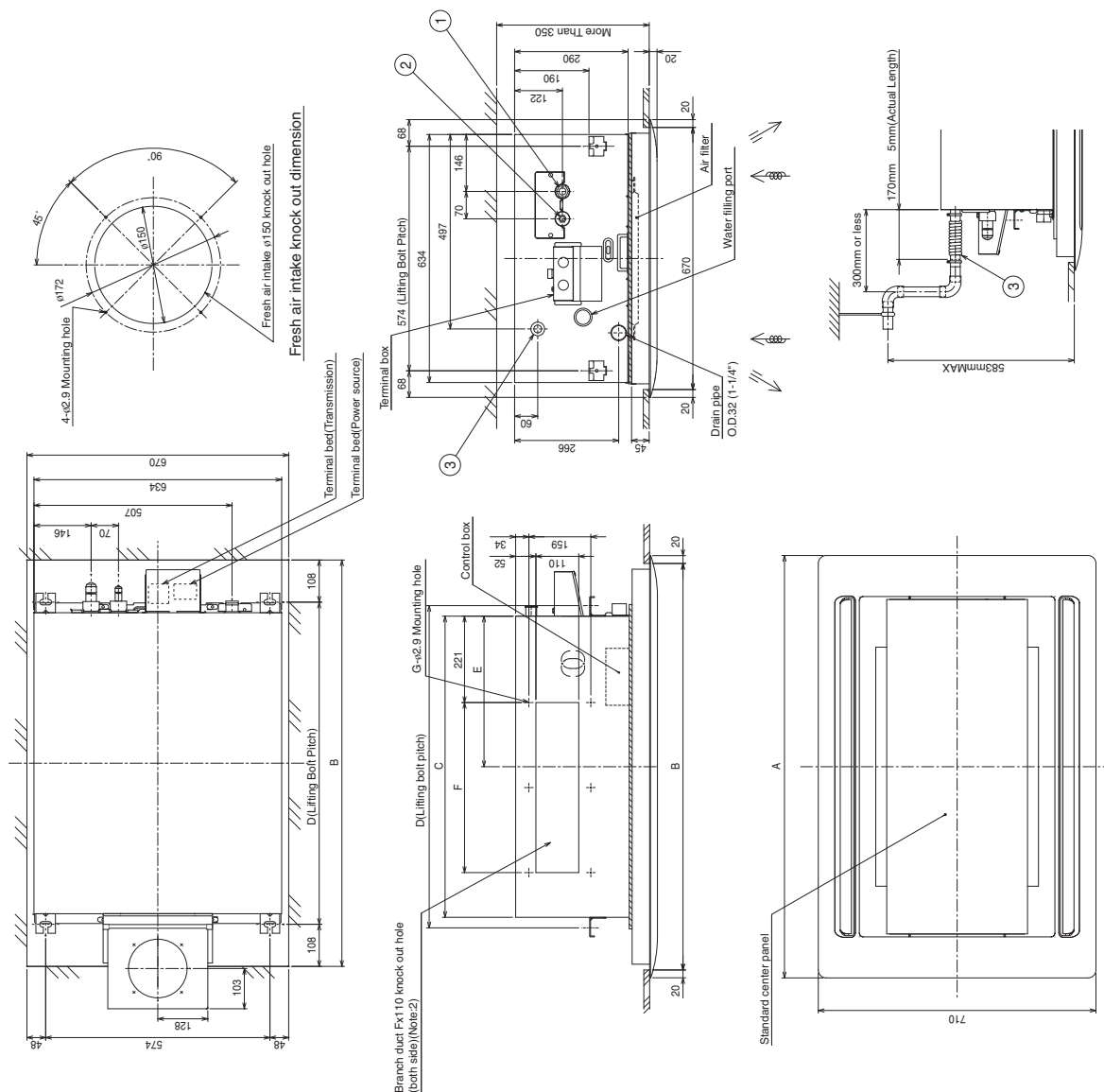
Drw. : IU-W275-920
Unit : mm



PLFY-P20,25,32,40,50,63,80,100VLM-D with OA duct flange

Drw. : IU-W275-920-1

Unit : mm



Note: 1. Use M10 screw for the lifting bolt (field supply).
2. It is available to connect the branch duct on right and left side both.

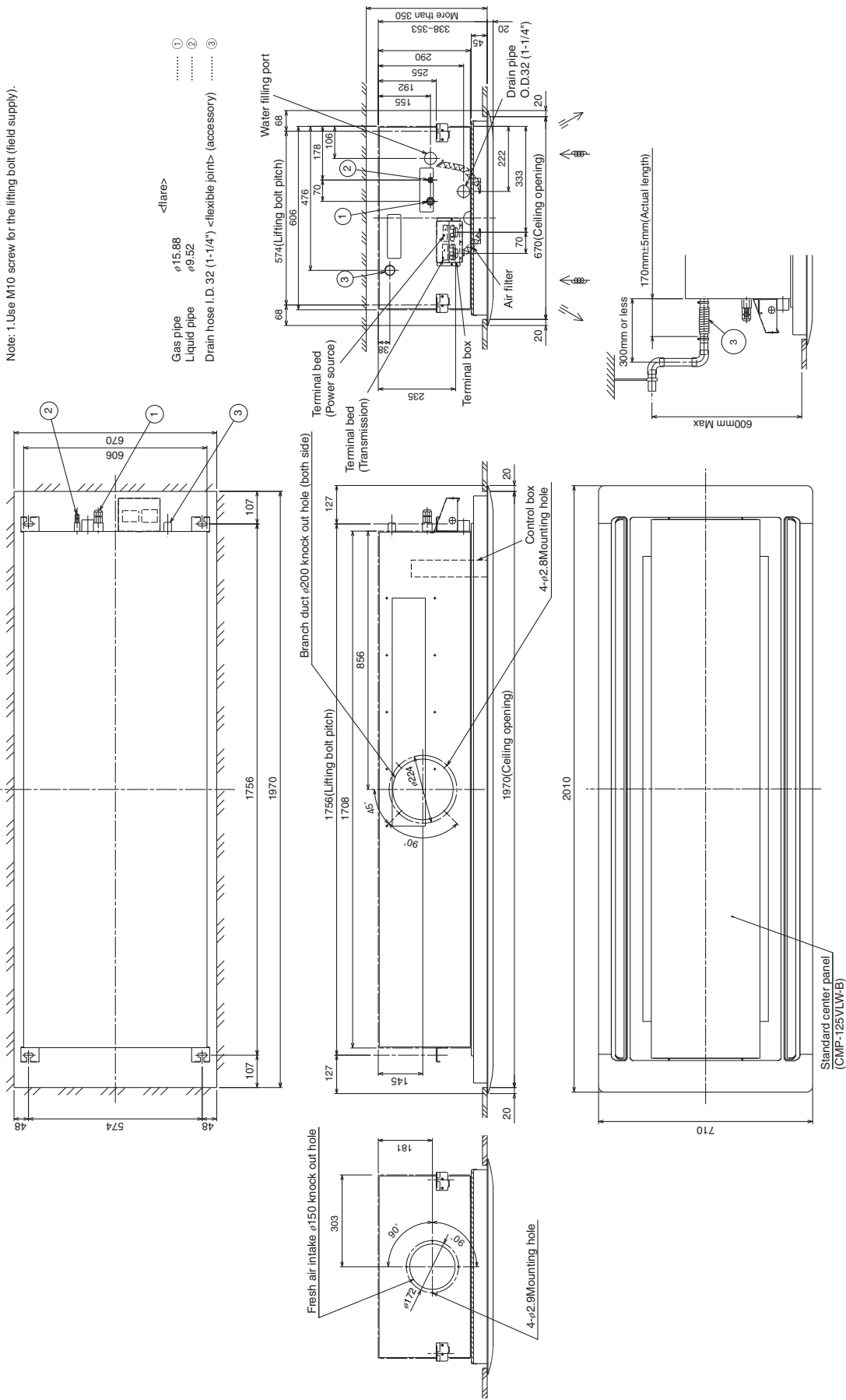
		<Iars>		
Model	Gas pipe	ø12.7	 ①	
20-25-32-40	Liquid pipe	ø6.35	 ②	
Model	Gas pipe	ø12.7	 ①	
50	Liquid pipe	ø6.35	 ②	
Model	Gas pipe	ø15.88	 ①	
63-80	Liquid pipe	ø9.52	 ②	
Model	Gas pipe	ø15.88	 ①	
100	Liquid pipe	ø9.52	 ②	
Drain hose	I.D. 32 (1-1/4")	<flexible joint>	 ③	(accessory)

Model	A	B	C	D	E	F	G
PLFY-P20VLM-D-E							
PLFY-P25VLM-D-E							
PLFY-P32VLM-D-E	1080	1040	776	824	388	217.5x2	6
PLFY-P40VLM-D-E						=435	
PLFY-P50VLM-D-E							
PLFY-P63VLM-D-E	1250	1210	946	994	473		
PLFY-P80VLM-D-E							
PLFY-P100VLM-D-E	1750	1710	1446	1494	723	188.5x4	10

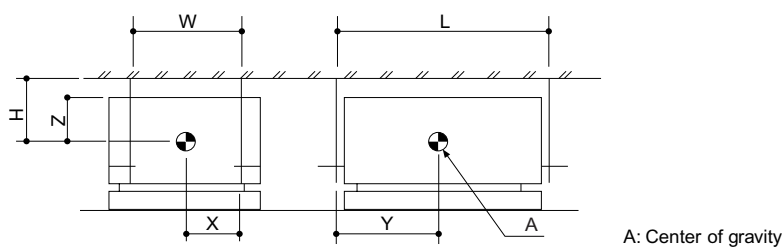
PLFY

PLFY-P125VLMD-E

Drw. : IU-W275-921
 Unit : mm



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

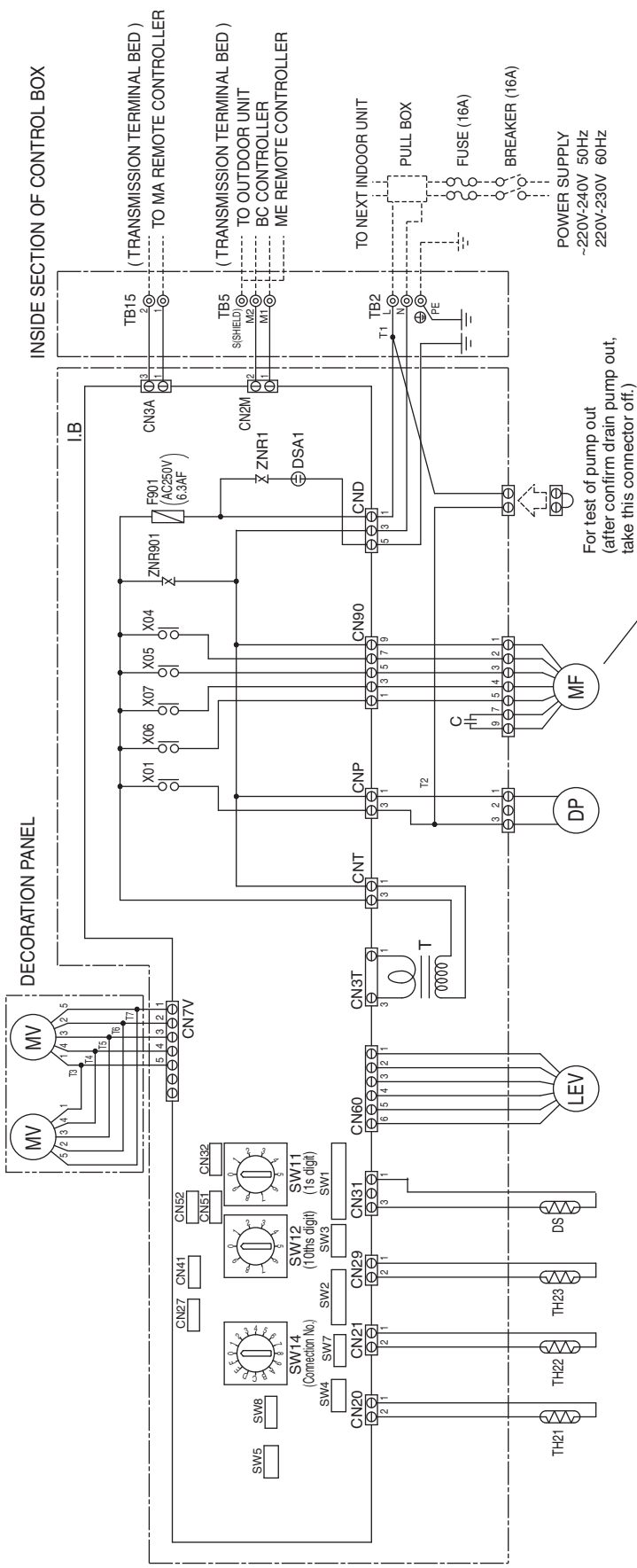


(mm)[in]						
Model name	W	L	H	X	Y	Z
PLFY-P20VLMD-E	574 [22-5/8]	824 [32-15/32]	172 [6-25/32]	287 [11-5/16]	370 [14-19/32]	160 [6-5/16]
PLFY-P25VLMD-E	574 [22-5/8]	824 [32-15/32]	172 [6-25/32]	287 [11-5/16]	370 [14-19/32]	160 [6-5/16]
PLFY-P32VLMD-E	574 [22-5/8]	824 [32-15/32]	172 [6-25/32]	287 [11-5/16]	370 [14-19/32]	160 [6-5/16]
PLFY-P40VLMD-E	574 [22-5/8]	824 [32-15/32]	172 [6-25/32]	287 [11-5/16]	370 [14-19/32]	160 [6-5/16]
PLFY-P50VLMD-E	574 [22-5/8]	994 [32-5/32]	172 [6-25/32]	287 [11-5/16]	445 [17-17/32]	160 [6-5/16]
PLFY-P63VLMD-E	574 [22-5/8]	994 [32-5/32]	172 [6-25/32]	287 [11-5/16]	445 [17-17/32]	160 [6-5/16]
PLFY-P80VLMD-E	574 [22-5/8]	1494 [58-27/32]	172 [6-25/32]	287 [11-5/16]	655 [25-13/16]	160 [6-5/16]
PLFY-P100VLMD-E	574 [22-5/8]	1494 [58-27/32]	172 [6-25/32]	287 [11-5/16]	655 [25-13/16]	160 [6-5/16]
PLFY-P125VLMD-E	574 [22-5/8]	1756 [69-5/32]	203 [8]	287 [11-5/16]	758 [29-27/32]	181 [7-5/32]

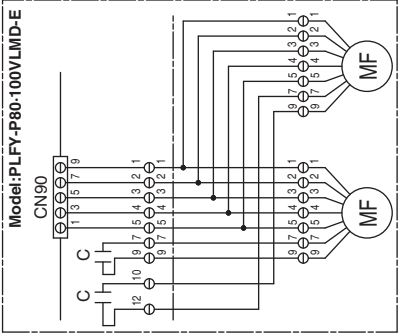
PLFY

PLFY-P20,25,32,40,50,63,80,100VLM-D-E

Drw. : IU-W653-952



NOTE : 1. TB2, TB5, and TB15 shown in dotted line are field work.
2. Mark ⊙ indicates terminal bed, ⊖ connector, ⊞ board insertion connector of fastening connector of control board.

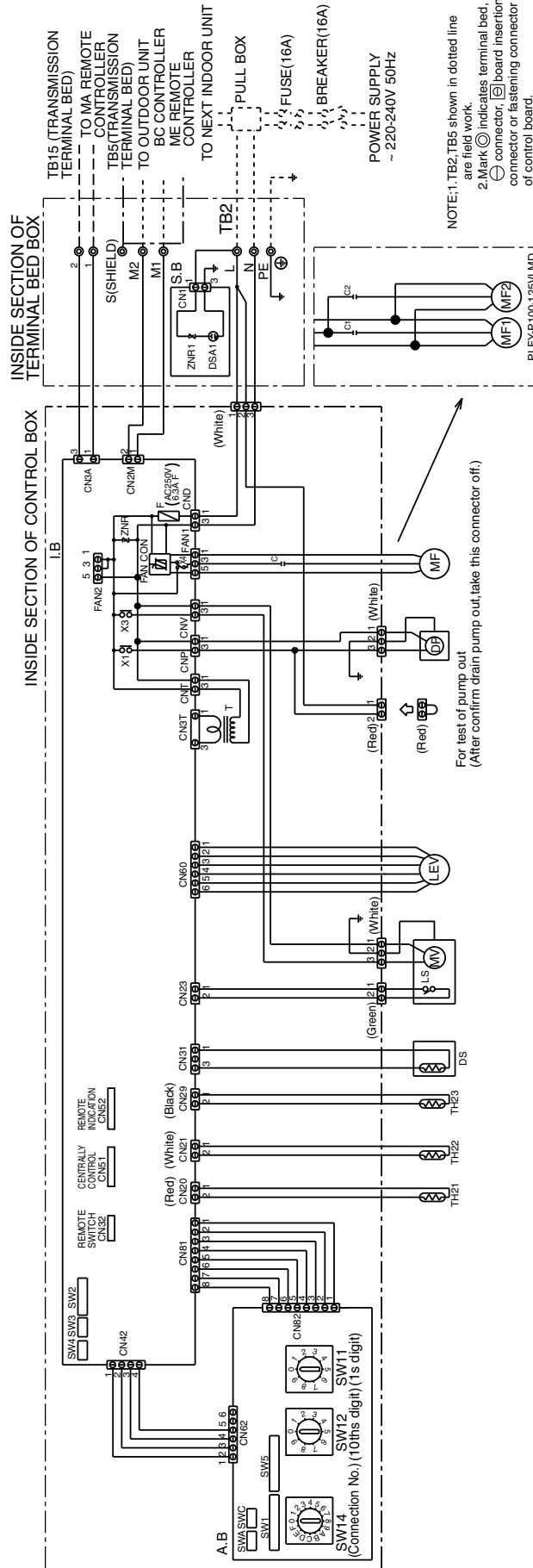


SYMBOL EXPLANATION

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
MF	Fan motor	CN27	Connector (Damper)	SW11	Switch (1s digit address set)
C	Capacitor (for MF)	CN32	Connector (Centrally control)	SW12	Switch (10ths digit address set)
I.B	Indoor controller board	CN41	Connector (HA terminal-A)	SW14	Switch (connection No.set)
TB2	Power source terminal bed	CN51	Connector (Centrally control)	SW1	Switch (for mode selection 1)
TB5	Transmission terminal bed	CN52	Connector (Remote indication)	SW2	Switch (for capacity code)
TB15	MA Remote controller terminal bed	X01	Aux.relay (Drain pump)	SW3	Switch (for mode selection 2)
F901	Fuse (6.3A/6A)	X04	Aux.relay (L notch/240V)	SW4	Switch (for mode selection)
ZNR1, ZNR901	Varistor	X05	Aux.relay (M/L notch/240V/220-230V)	SW5	Switch (for voltage selection)
T	Transformer	X06	Aux.relay (H notch/220-230V)	SW7	Switch (for mode selection)
DP	Drain pump	X07	Aux.relay (H/M notch/240V/220-230V)	SW8	Switch (for mode selection 3)
LEV	Electronic linear expan.valve	TH21	Thermistor (inlet temp.detection)	T1-T7	Terminal
DS	Drain sensor	TH22	Thermistor (pipe temp.detection/liquid)		
MV	Motor for vane	TH23	Thermistor (pipe temp.detection/gas)		

PLFY-125VLMD-E

Drw. : IU-W275-927



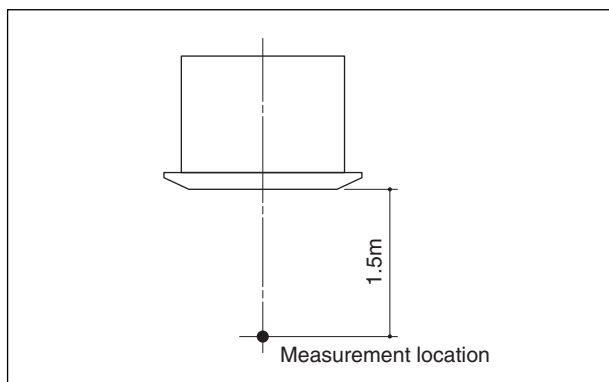
SYMBOL EXPLANATION		NAME	
MF1, MF2	Fan motor	SW14(A, B)	Switch (connection No. set)
C1, C2	Capacitor (for MF1, MF2)	SW1(A, B)	Switch (for mode selection)
I.B	Indoor controller board	SW2(I, B)	Switch (for capacity code)
A.B	Address board	SW3(I, B)	Switch (for mode selection)
TB2	Power source terminal bed	SW4(I, B)	Switch (for mode selection)
TB5	Transmission terminal bed	SW5(A, B)	Switch (for voltage selection)
F	Fuse AC250V 6.3A F	SWA(A, B)	Switch (option parts)
T	Transformer	SWC(A, B)	Switch (option parts)
DP	Drain pump	X1, X3, X4	Aux. relay

5. SOUND LEVELS

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5-1. Sound levels

PLFY-P-VLMD-E



Sound level at anechoic room : Low-Mid-High

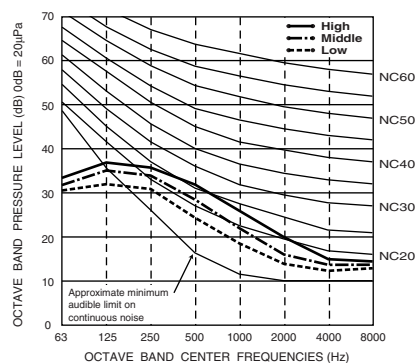
	Sound level dB (A)	
	220,240V	230V
PLFY-P20VLMD-E	27-30-33	28-31-34
PLFY-P25VLMD-E		
PLFY-P32VLMD-E		
PLFY-P40VLMD-E	29-33-36	30-34-37
PLFY-P50VLMD-E	31-34-37	32-35-38
PLFY-P63VLMD-E	32-37-39	33-38-40
PLFY-P80VLMD-E	33-36-39	34-37-40
PLFY-P100VLMD-E	36-39-42	37-41-43
PLFY-P125VLMD-E	40-42-44-46	

5-2. NC curves

PLFY-P20,25VLMD-E

External static pressure : 0Pa

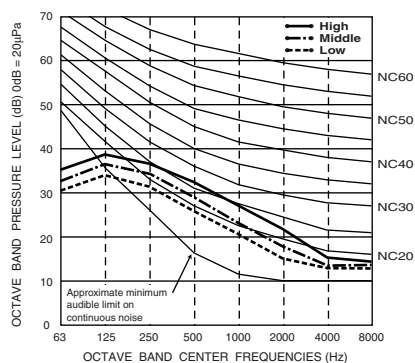
Power source : 220,240V, 50/60Hz



PLFY-P20,25VLMD-E

External static pressure : 0Pa

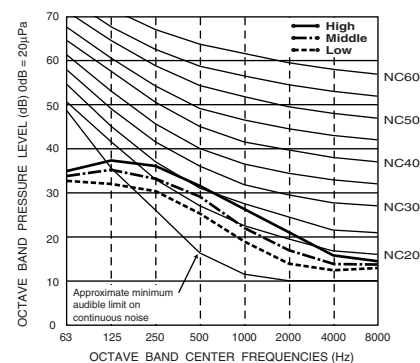
Power source : 230V, 50/60Hz



PLFY-P32VLMD-E

External static pressure : 0Pa

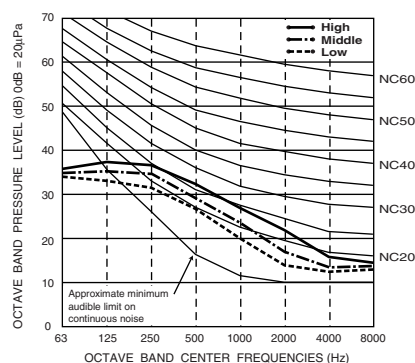
Power source : 220,240V, 50/60Hz



PLFY-P32VLMD-E

External static pressure : 0Pa

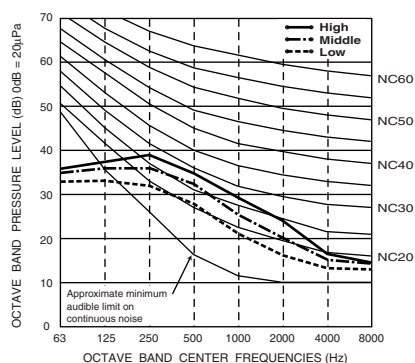
Power source : 230V, 50/60Hz



PLFY-P40VLMD-E

External static pressure : 0Pa

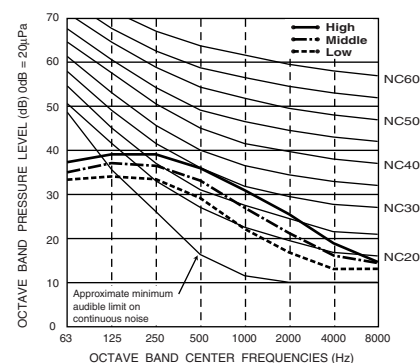
Power source : 220,240V, 50/60Hz



PLFY-P40VLMD-E

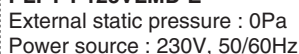
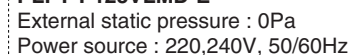
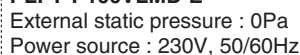
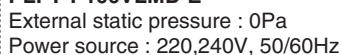
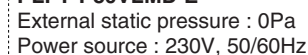
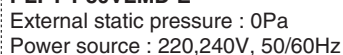
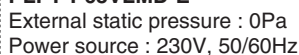
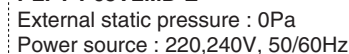
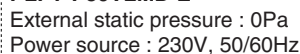
External static pressure : 0Pa

Power source : 230V, 50/60Hz

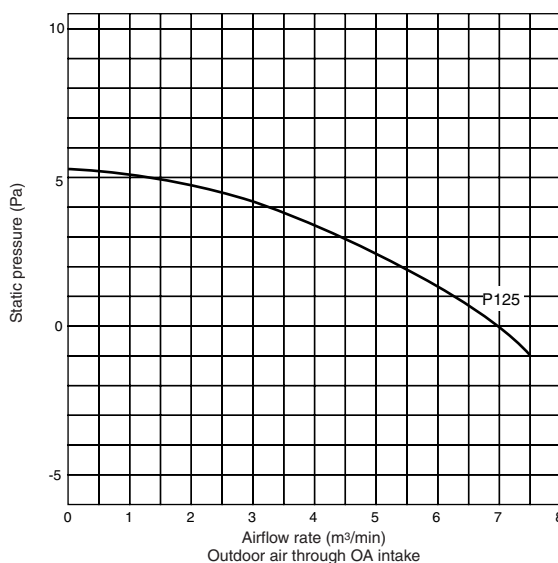
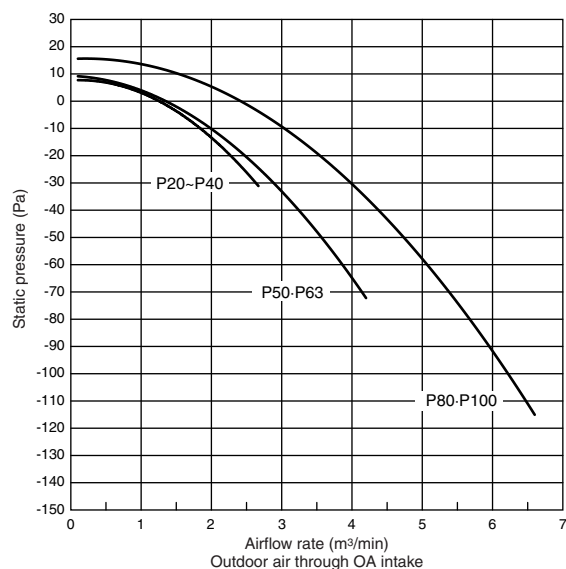


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External static pressure : 0Pa
Power source : 220,240V, 50/60Hz



5-3. OA Intake-static pressure curves



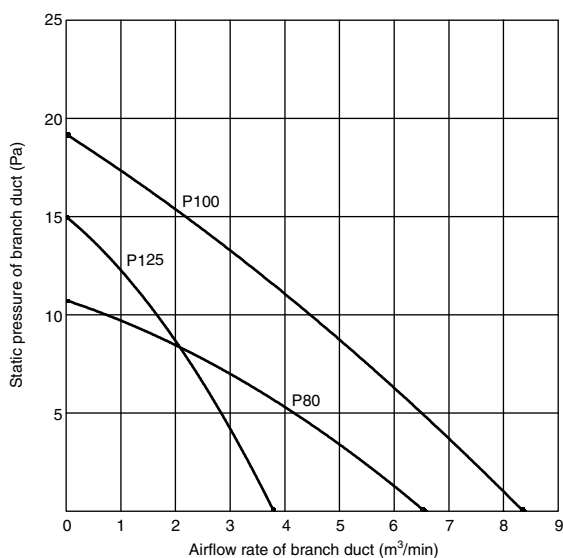
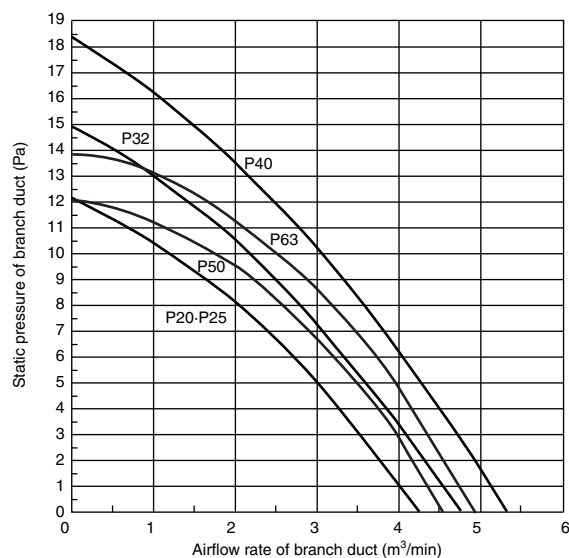
Please confirm that inlet-air temperature (which is mixed with outdoor air) is in the following operating temperature range.

PLFY-P-VLMD-E : Operating temperature range

Mode	Temperature range of inlet air
Cooling	15°C~24°C(Wet bulb)
Dry	
Heating	15°C~27°C(Dry bulb)

*Relative humidity range is 30~80%.

5-4. Branch duct Discharge-static pressure curves

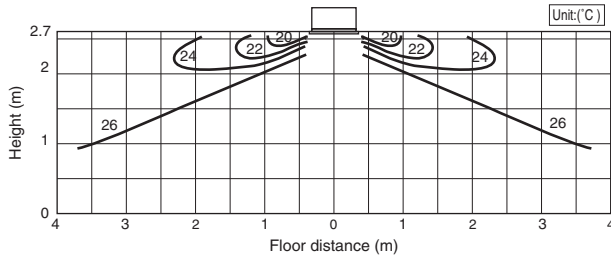


6-1. Temperature distributions

PLFY-P20-125VLMD-E

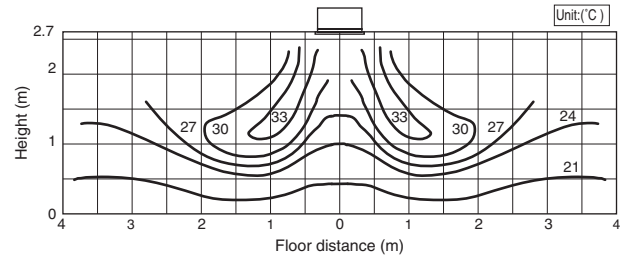
<Cooling mode>

Airflow angle : Horizontal
Room temp.: 27°C
Airflow rate : High



<Heating mode>

Airflow angle : Downward
Room temp.: 20°C
Airflow rate : High



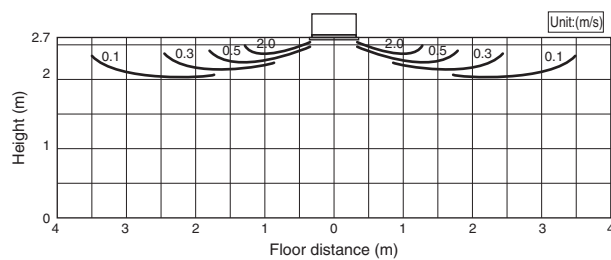
Note : These figures show typical temperature distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

6-2. Airflow distributions

PLFY-P20-125VLMD-E

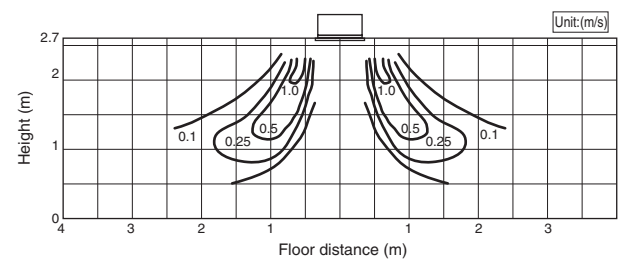
<Cooling mode>

Airflow angle : Horizontal
Room temp.: 27°C
Airflow rate : High



<Heating mode>

Airflow angle : Downward
Room temp.: 20°C
Airflow rate : High

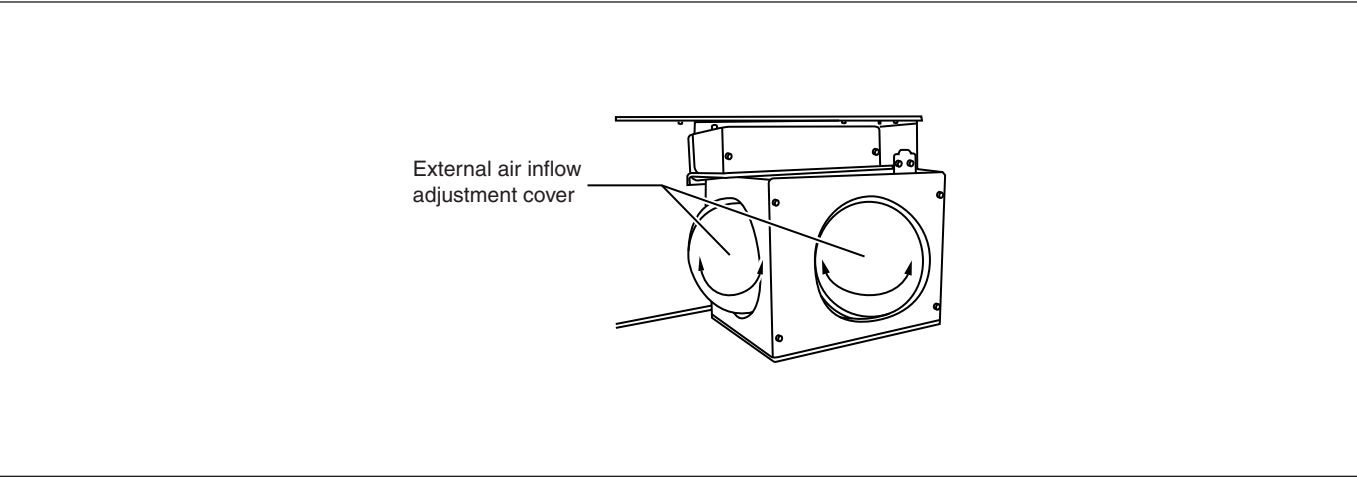


Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

Optional parts line up for the Indoor unit

	OA duct flange
PLFY-P-VLMD-E	PAC-KH11OF

PLFY-P-VLMD-E



OA duct flange PAC-KH11OF for PLFY-P-VLMD-E

OA duct flange PAC-KH11OF makes outside fresh air ducting to the Indoor unit easier.			
Material: Galvanized steel plate, with insulation sheet adhered.			
Item	① External air intake ducting	② Ducting flange	③ PTT screws (4×10)
Quantity	1	1	10 (two spares)
Shape			

Detailed installation information should be referred to its Installation Manual (WT03833X07)