

PLFY-P-NLMU-E

1. SPECIFICATIONS	1 - 76
2. EXTERNAL DIMENSIONS	1 - 78
3. CENTER OF GRAVITY	1 - 79
4. ELECTRICAL WIRING DIAGRAMS	1 - 80
5. SOUND LEVELS	1 - 81
5-1. Sound levels	1 - 81
5-2. NC curves	1 - 81
6. OA INTAKE-STATIC PRESSURE CURVES	1 - 82
7. BRANCH DUCT INTAKE-STATIC PRESSURE CURVES	1 - 83
8. TEMPERATURE/AIRFLOW DISTRIBUTIONS	1 - 84
8-1. Temperature distributions	1 - 84
8-2. Airflow distributions	1 - 84
9. OPTIONAL PARTS	1 - 85
9-1. Optional parts line up for the Indoor unit	1 - 85
9-2. Decoration panel	1 - 85
9-3. OA duct flange	1 - 86
9-4. External heater adapter	1 - 86

1. SPECIFICATIONS

DATA U10

Model			PLFY-P06NLMU-E	PLFY-P08NLMU-E	PLFY-P12NLMU-E	PLFY-P15NLMU-E
Power source			1-phase 208/230 V 60Hz			
Cooling capacity (Nominal)	*1	BTU / h	6,000	8,000	12,000	15,000
	*1	kW	1.8	2.3	3.5	4.4
	Power input	kW	0.068/0.075	0.068/0.075	0.068/0.075	0.077/0.085
	Current input	A	0.34/0.37	0.34/0.37	0.34/0.37	0.38/0.42
Heating capacity (Nominal)	*2	BTU / h	6,700	9,000	13,500	17,000
	*2	kW	2.0	2.6	4.0	5.0
	Power input	kW	0.068/0.075	0.068/0.075	0.068/0.075	0.077/0.085
	Current input	A	0.34/0.37	0.34/0.37	0.34/0.37	0.38/0.42
External finish			Unit : Galvanized			
External dimension H x W x D		in.	11-7/16 x 30-9/16 x 24-31/32	11-7/16 x 30-9/16 x 24-31/32	11-7/16 x 30-9/16 x 24-31/32	11-7/16 x 30-9/16 x 24-31/32
		mm	290 x 776 x 634	290 x 776 x 634	290 x 776 x 634	290 x 776 x 634
Net weight		lbs (kg)	51 (23)	51 (23)	53 (24)	53 (24)
Decoration panel	Model		CMP-40VLW-C	CMP-40VLW-C	CMP-40VLW-C	CMP-40VLW-C
	External finish		ABS,MUNSELL(6.4Y 8.9/0.4),include Service Panel : Galvanized,MUNSELL(6.4Y 8.9/0.4)			
	Dimension	in.	13/16 x 42-17/32 x 27-31/32	13/16 x 42-17/32 x 27-31/32	13/16 x 42-17/32 x 27-31/32	13/16 x 42-17/32 x 27-31/32
	H x W x D	mm	20 x 1,080 x 710	20 x 1,080 x 710	20 x 1,080 x 710	20 x 1,080 x 710
	Net Weight	lbs (kg)	15(6.5)	15(6.5)	15(6.5)	15(6.5)
Heat exchanger			Cross fin(Aluminium 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	in.WG	-	-	-	-
		Pa	-	-	-	-
	Motor type		1-phase induction motor			
	Motor output	kW	0.015	0.015	0.015	0.015
	Driving mechanism		Direct-driven			
	Airflow rate (Low-Mid-High)	cfm	230-282-335	230-282-335	230-282-335	247-300-371
		m3 / min	6.5-8.0-9.5	6.5-8.0-9.5	6.5-8.0-9.5	7.0-8.5-10.5
		L / s	108-133-158	108-133-158	108-133-158	117-142-175
Sound pressure level (Low-Mid-High) (measured in anechoic room)	dB <A>	27-30-33 (208V)	27-30-33 (208V)	27-30-33 (208V)	29-33-36 (208V)	
	dB <A>	28-31-34 (230V)	28-31-34 (230V)	28-31-34 (230V)	30-34-37 (230V)	
	dB <A>	-	-	-	-	
Insulation material			Polystyrene foam,Polyethylene foam,Urethane foam			
Air filter			Standard filter			
Protection device			Fuse			
Refrigerant control device			LEV			
Connectable outdoor unit			R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI
Diameter of refrigerant pipe (O.D.)	Liquid (R410A)	in. (mm)	1/4 (6.35) Flare	1/4 (6.35) Flare	1/4 (6.35) Flare	1/4 (6.35) Flare
	Gas (R410A)	in. (mm)	1/2 (12.7) Flare	1/2 (12.7) Flare	1/2 (12.7) Flare	1/2 (12.7) Flare
Field drain pipe size		in. (mm)	O.D. 1-1/4 (32)	O.D. 1-1/4 (32)	O.D. 1-1/4 (32)	O.D. 1-1/4 (32)
Drawing	External		W277663			
	Wiring		W660127			
	Refrigerant cycle		-			
Standard attachment	Document		Installation Manual,Installation Book			
	Accessory		Drain hose I.D. 1-1/4inch (32mm)(flexible joint)			
Optional parts	Decoration panel		CMP-40VLW-C	CMP-40VLW-C	CMP-40VLW-C	CMP-40VLW-C
	External heater adapter		PAC-YU25HT	PAC-YU25HT	PAC-YU25HT	PAC-YU25HT
	OA duct flange		PAC-KH11OF	PAC-KH11OF	PAC-KH11OF	PAC-KH11OF
Remarks			* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. * Due to continuing improvement, above specification may be subject to change without notice.			

Notes :		*1 Nominal cooling conditions	*2 Nominal heating conditions	Unit converter
		Indoor : 80degF D.B. / 67degF W.B. (26.7degC D.B. / 19.4degC W.B.)	70degF D.B. (21.1degC D.B.)	kcal/h = kW x 860
		Outdoor : 95degF D.B. (35degC D.B.)	47degF D.B. / 43degF W.B. (8.3degC D.B. / 6.1degC W.B.)	BTU/h = kW x 3,412
		Pipe length : 25 ft. (7.6 m)	25 ft. (7.6 m)	cfm = m3/min x 35.31
		Level difference : 0 ft. (0 m)	0 ft. (0 m)	lbs = kg / 0.4536
				*Above specification data is subject to rounding variation.

Ref.: Spec_PLFY-P06-15NLMU

1. SPECIFICATIONS

DATA U10

Model			PLFY-P18NLMU-E			
Power source			1-phase 208/230 V 60Hz			
Cooling capacity (Nominal)	*1	BTU / h	18,000			
	*1	kW	5.3			
	Power input	kW	0.078/0.086			
	Current input	A	0.39/0.43			
Heating capacity (Nominal)	*2	BTU / h	20,000			
	*2	kW	5.9			
	Power input	kW	0.078/0.086			
	Current input	A	0.39/0.43			
External finish			Unit : Galvanized			
External dimension H x W x D		in.	11-7/16 x 37-1/4 x 24-31/32			
		mm	290 x 946 x 634			
Net weight		lbs (kg)	60 (27)			
Decoration panel	Model		CMP-63VLW-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	in.	13/16 x 49-7/32 x 27-31/32			
		mm	20 x 1,250 x 710			
	Net Weight	lbs (kg)	17(7.5)			
Heat exchanger			Cross fin(Aluminium fin and copper tube)			
FAN	Type x Quantity		Turbo fan x 1			
	External static press	in.WG	-			
		Pa	-			
	Motor type		1-phase induction motor			
	Motor output	kW	0.020			
	Driving mechanism		Direct-driven			
	Airflow rate (Low-Mid-High)	cfm	318-388-441			
		m3 / min	9.0-11.0-12.5			
		L / s	150-183-208			
Sound pressure level (Low-Mid-High) (measured in anechoic room)	dB <A>		31-34-37 (208V)			
	dB <A>		32-35-38 (230V)			
	dB <A>		-			
Insulation material			Polystyrene foam,Polyethylene foam,Urethane foam			
Air filter			Standard filter			
Protection device			Fuse			
Refrigerant control device			LEV			
Connectable outdoor unit			R410A CITY MULTI			
Diameter of refrigerant pipe (O.D.)	Liquid (R410A)	in. (mm)	1/4 (6.35) Flare			
	Gas (R410A)	in. (mm)	1/2 (12.7) Flare			
Field drain pipe size		in. (mm)	O.D. 1-1/4 (32)			
Drawing	External		W277663			
	Wiring		W660127			
	Refrigerant cycle		-			
Standard attachment	Document		Installation Manual,Installation Book			
	Accessory		Drain hose I.D. 1-1/4inch (32mm)(flexible joint)			
Optional parts	Decoration panel		CMP-63VLW-C			
	External heater adapter		PAC-YU25HT			
	OA duct flange		PAC-KH11OF			
Remarks			* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. * Due to continuing improvement, above specification may be subject to change without notice.			

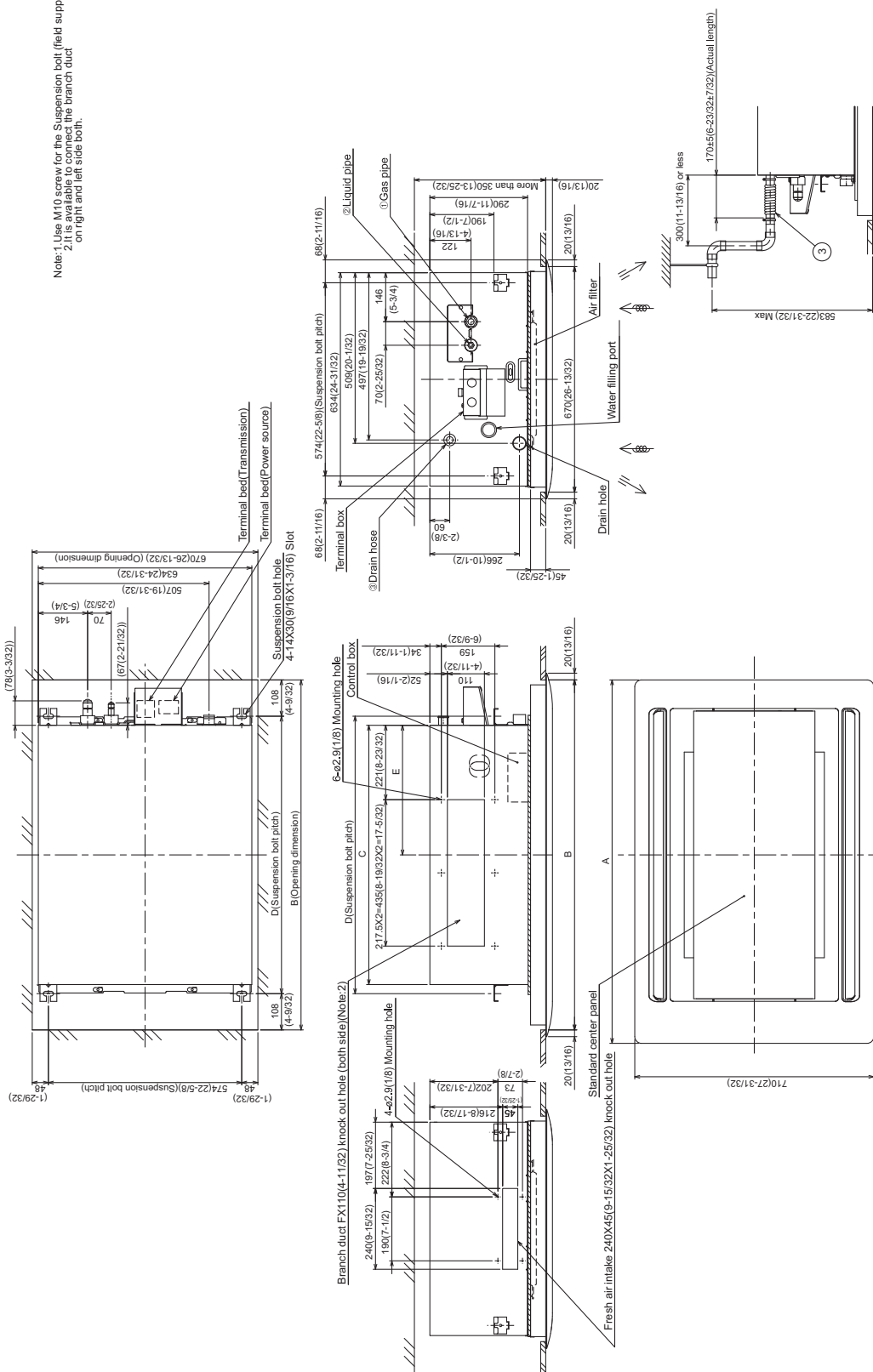
Notes :		*1 Nominal cooling conditions	*2 Nominal heating conditions	Unit converter
Indoor :		80degF D.B. / 67degF W.B. (26.7degC D.B. / 19.4degC W.B.)	70degF D.B. (21.1degC D.B.)	kcal/h = kW x 860 BTU/h = kW x 3,412
Outdoor :		95degF D.B. (35degC D.B.)	47degF D.B. / 43degF W.B. (8.3degC D.B. / 6.1degC W.B.)	cfm = m3/min x 35.31 lbs = kg / 0.4536
Pipe length :		25 ft. (7.6 m)	25 ft. (7.6 m)	
Level difference :		0 ft. (0 m)	0 ft. (0 m)	
				*Above specification data is subject to rounding variation.

Ref.: Spec_PLFY-P18NLMU

PLFY-P06,08,12,15,18NLMU-E

Drw. : IU-W277663
Unit : mm(in)

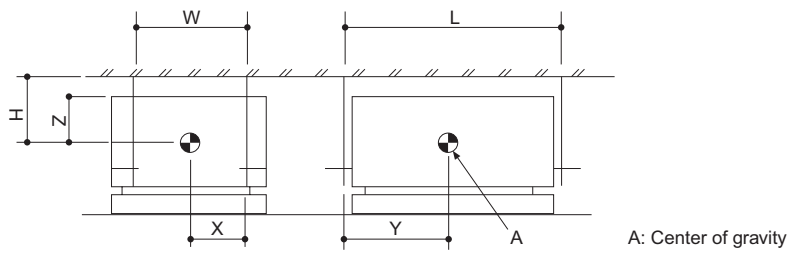
Note 1 Use M10 screw for the Suspension bolt (field supply).
2 It is available to connect the branch duct on right and left side both.



Model	A	B	C	D	E	① Gas pipe <line>	② Liquid pipe <line>	③ Drain hose
PLFY-P06NLMU-E	1080	1040	776	824	388	ø12.7 (1/2)	ø6.35 (1/4)	Drain hose ID 32mm (1-1/4inch) <flexible joint > (accessory)
PLFY-P08NLMU-E	1080	1040	776	824	388	ø12.7 (1/2)	ø6.35 (1/4)	
PLFY-P12NLMU-E	1080	1040	776	824	388	ø12.7 (1/2)	ø6.35 (1/4)	
PLFY-P15NLMU-E	1080	1040	776	824	388	ø12.7 (1/2)	ø6.35 (1/4)	
PLFY-P18NLMU-E	1080	1040	776	824	388	ø12.7 (1/2)	ø6.35 (1/4)	

PLFY-P06,08,12,15,18NLMU-E

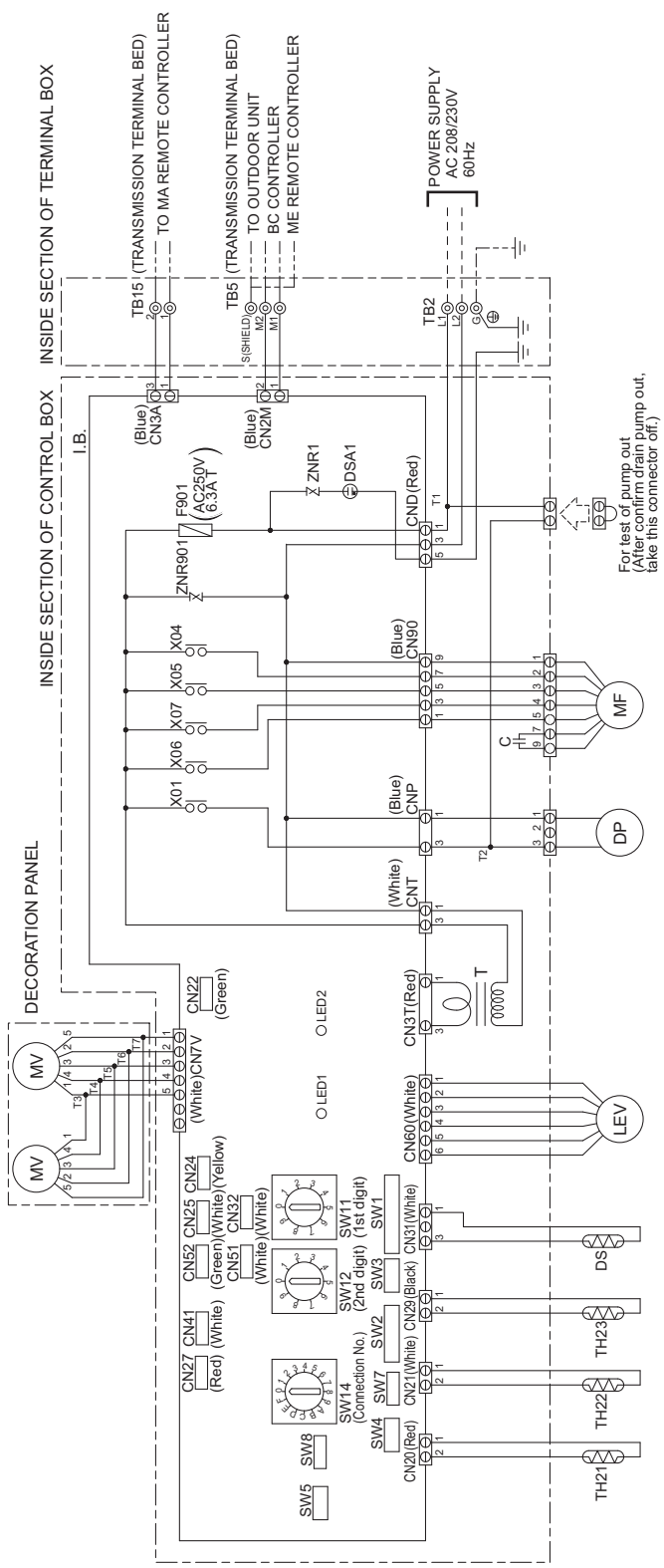
Ref.: PLFY_NLMU_COG_USDB_ALL



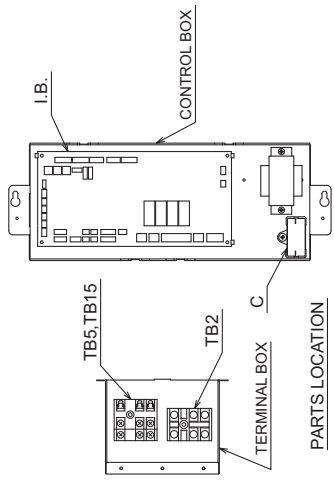
Model name	(mm)[in]					
	W	L	H	X	Y	Z
PLFY-P06NLMU-E	574 [22-5/8]	824 [32-15/32]	172 [6-25/32]	287 [11-5/16]	370 [14-19/32]	160 [6-5/16]
PLFY-P08NLMU-E	574 [22-5/8]	824 [32-15/32]	172 [6-25/32]	287 [11-5/16]	370 [14-19/32]	160 [6-5/16]
PLFY-P12NLMU-E	574 [22-5/8]	824 [32-15/32]	172 [6-25/32]	287 [11-5/16]	370 [14-19/32]	160 [6-5/16]
PLFY-P15NLMU-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-P18NLMU-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-P06,08,12,15,18NLMU-E

PLFY



NOTE:1 The wirings to TB2, TB5, TB15 shown in chained line are field work.
2 Mark ⊙ indicates terminal bed, ⊕ connector, ⊞ board insertion connector or fastening connector of control board.

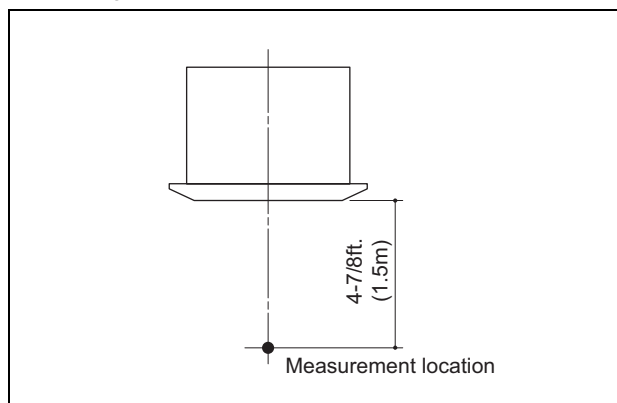


SYMBOL EXPLANATION

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
MF	Fan motor	TH21	Thermistor (inlet temp. detection)		
C	Capacitor (for MF)	TH22	Thermistor (pipe temp. detection/liquid)		
I.B.	Indoor controller board	TH23	Thermistor (pipe temp. detection/gas)		
TB5	Power source terminal bed	SW11	Switch (1st digit address set)		
TB15	Transmission terminal bed	SW12	Switch (2nd digit address set)		
F901	MA Remote controller terminal bed	SW14	Switch (connection No. set)		
ZNR1, ZNR901	Fuse AC250V 6.3A T Varistor	SW1	Switch (for mode selection 1)		
T	Transformer	SW2	Switch (for capacity code)		
DP	Drain pump	SW3	Switch (for mode selection 2)		
LEV	Electronic linear expansion valve	SW4	Switch (for model selection)		
DS	Drain sensor	SW5	Switch (for voltage selection)		
MV	Motor for vane	SW7	Switch (for mode selection)		
LED1	Power supply (I.B.)	SW8	Switch (for mode selection 3)		
LED2	Power supply (Remote controller)	T1~T7	Terminal		

5-1. Sound levels

PLFY-P-NLMU-E



* Measured in anechoic room

Operating sound levels

(Low - Middle - High)

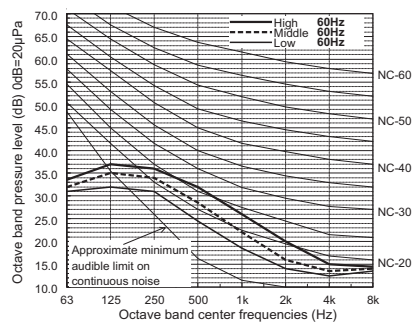
Unit : dB (A)

Model		Sound level (A weighted)
PLFY-P06,P08,P12NLMU-E	208V	27 - 30 - 33
	230V	28 - 31 - 34
PLFY-P15NLMU-E	208V	29 - 33 - 36
	230V	30 - 34 - 37
PLFY-P18NLMU-E	208V	31 - 34 - 37
	230V	32 - 35 - 38

5-2. NC curves

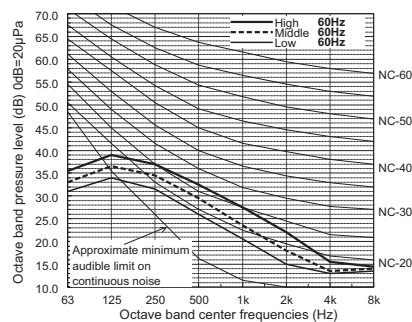
PLFY-P06,08NLMU-E

External Static Pressure: 0Pa [0.00 in.WG]
Power Source: 208V 60Hz



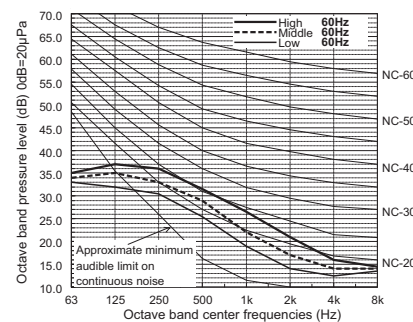
PLFY-P06,08NLMU-E

External Static Pressure: 0Pa [0.00 in.WG]
Power Source: 230V 60Hz



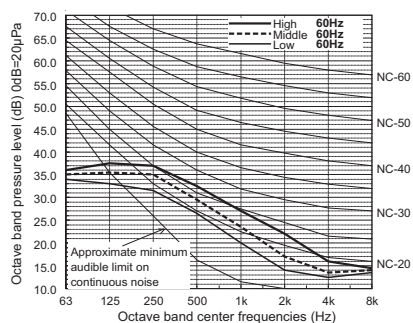
PLFY-P12NLMU-E

External Static Pressure: 0Pa [0.00 in.WG]
Power Source: 208V 60Hz



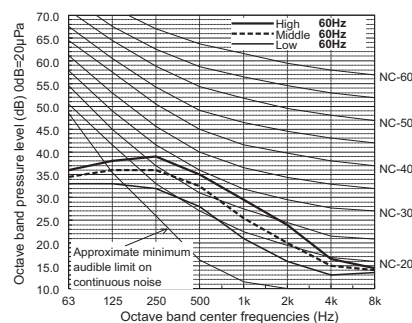
PLFY-P12NLMU-E

External Static Pressure: 0Pa [0.00 in.WG]
Power Source: 230V 60Hz



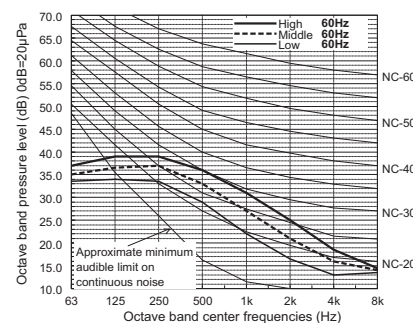
PLFY-P15NLMU-E

External Static Pressure: 0Pa [0.00 in.WG]
Power Source: 208V 60Hz



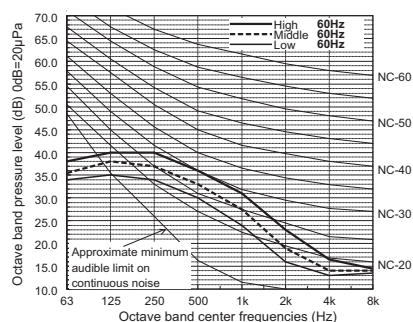
PLFY-P15NLMU-E

External Static Pressure: 0Pa [0.00 in.WG]
Power Source: 230V 60Hz



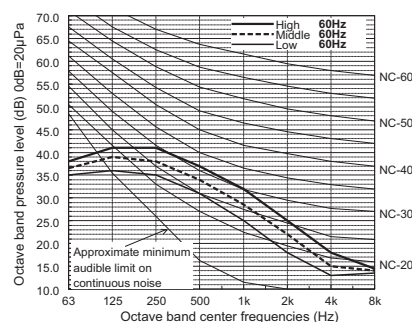
PLFY-P18NLMU-E

External Static Pressure: 0Pa [0.00 in.WG]
Power Source: 208V 60Hz

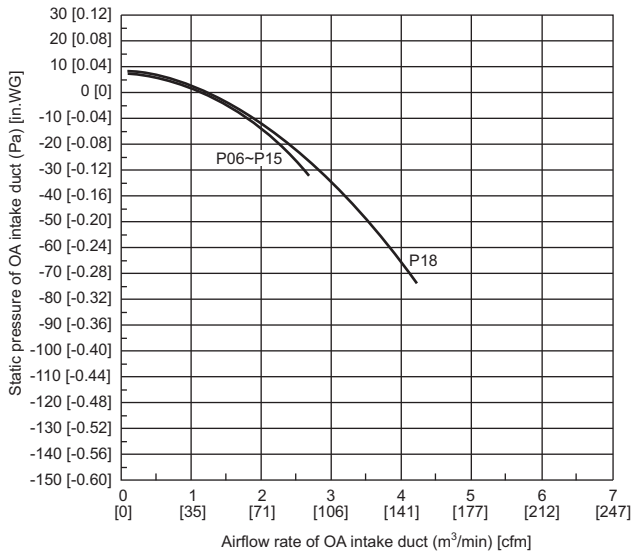


PLFY-P18NLMU-E

External Static Pressure: 0Pa [0.00 in.WG]
Power Source: 230V 60Hz



■PLFY-P-NLMU-E

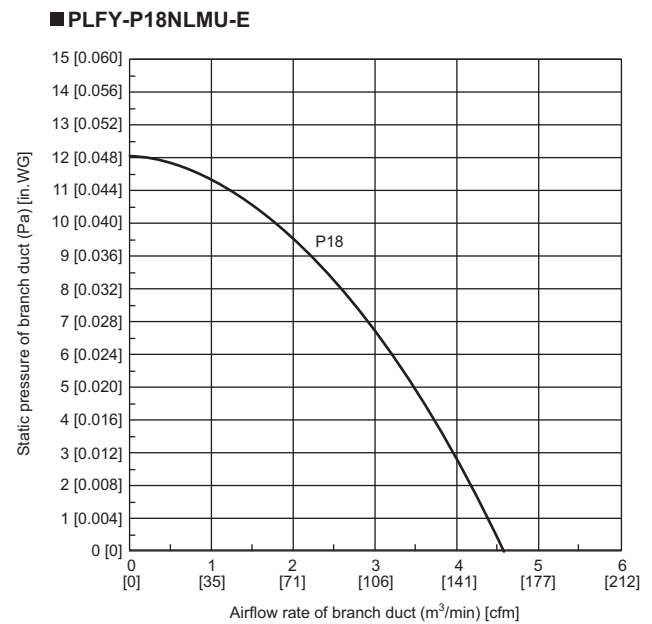
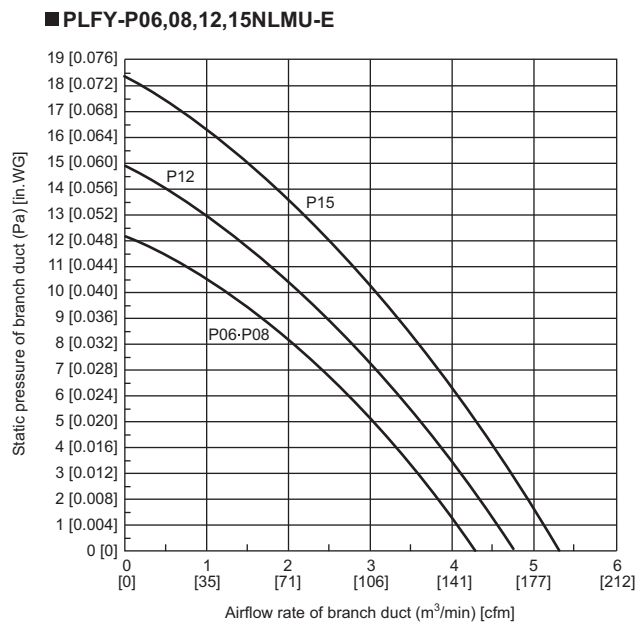


please confirm that inlet-air temperature (which is mixed with outdoor air) is in the following operating range.

■ PLYFY-P-NLMU-E :Operating temperature range

Mode	Temperature range of inlet air
Cooling	15°C ~24°C [59°F ~ 75.2°F] (Wet bulb)
Dry	
Heating	15°C ~27°C [59°F ~ 80.6°F] (Dry bulb)

※Relative humidity range is 30~80%.

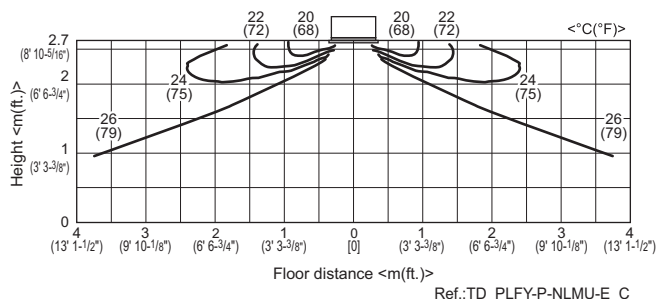


8-1. Temperature distributions

PLFY-P06-18NLMU-E

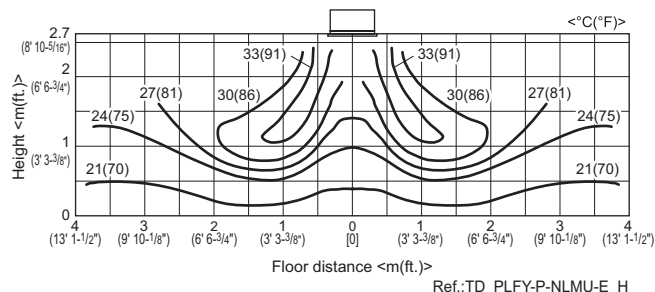
<Cooling mode>

Airflow angle : Horizontal
Room temp.: 27°C (81°F)
Airflow rate : High



<Heating mode>

Airflow angle : Downward
Room temp.: 20°C (68°F)
Airflow rate : High

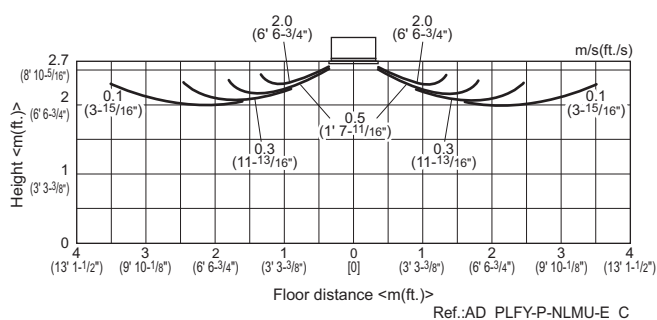


8-2. Airflow distributions

PLFY-P06-18NLMU-E

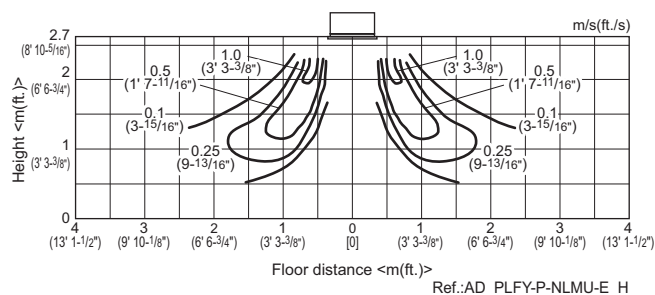
<Cooling mode>

Airflow angle : Horizontal
Room temp.: 27°C (81°F)
Airflow rate : High



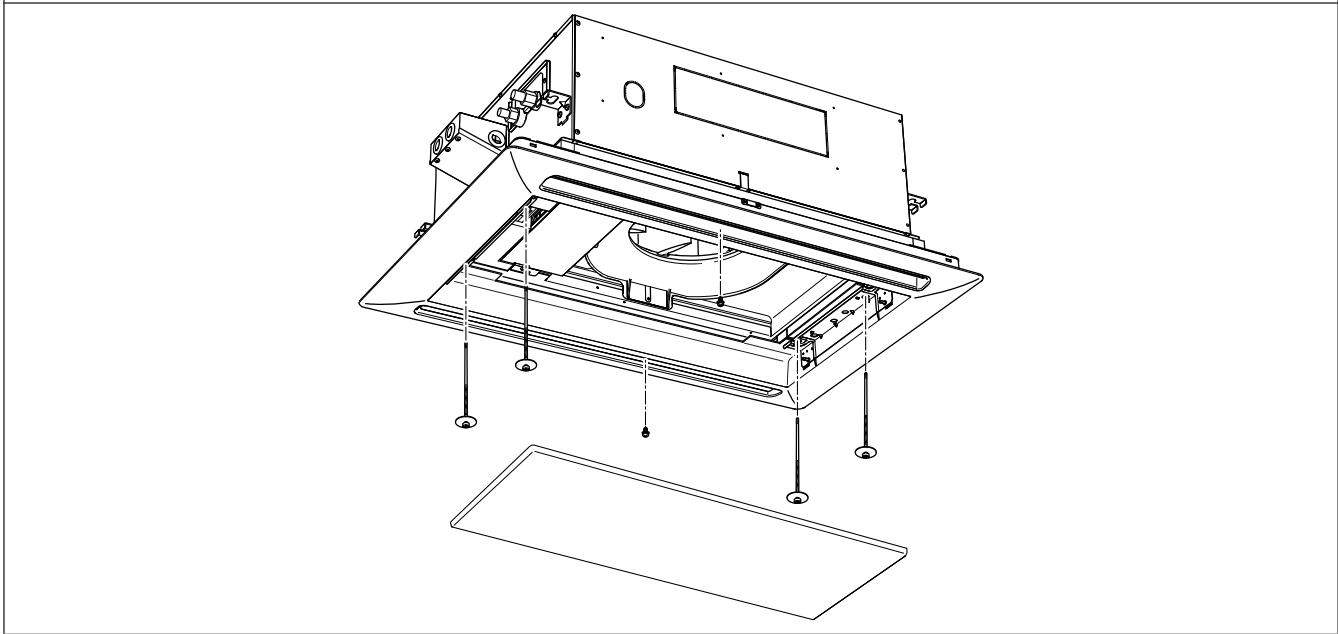
<Heating mode>

Airflow angle : Downward
Room temp.: 20°C (68°F)
Airflow rate : High



9-1. Optional parts line up for the Indoor unit

	Decoration panel	OA duct flange	External heater adapter
PLFY-P06,08,12,15NLMU-E	CMP-40VLW-C	PAC-KH11OF	PAC-YU25HT
PLFY-P18NLMU-E	CMP-63VLW-C	PAC-KH11OF	PAC-YU25HT



PLFY

9-2. Decoration panel

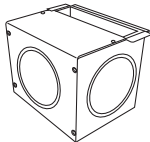
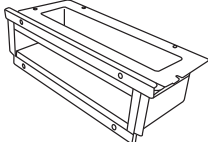
PLFY-P-NLMU-E should use decoration panel CMP-VLW-C together. Refer to the specifications for details.			
Item	CMP-40VLW-C	CMP-63VLW-C	
Quantity	1	1	
Shape			

Detailed installation information should be referred to its Installation Manual

9-3. OA duct flange

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 (4x10)
Quantity	1	1	10 (two spares)
Shape			

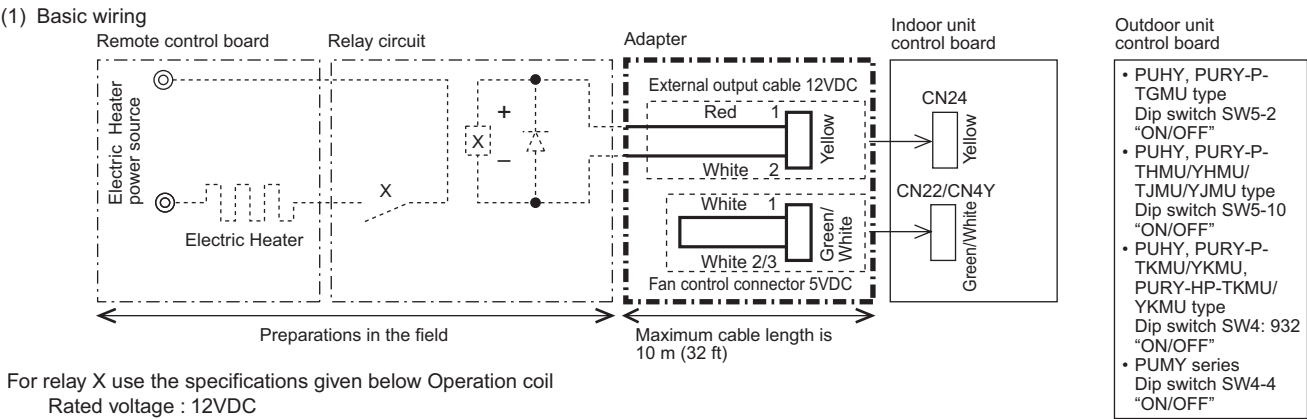
Detailed installation information should be referred to its Installation Manual.

9-4. External heater adapter

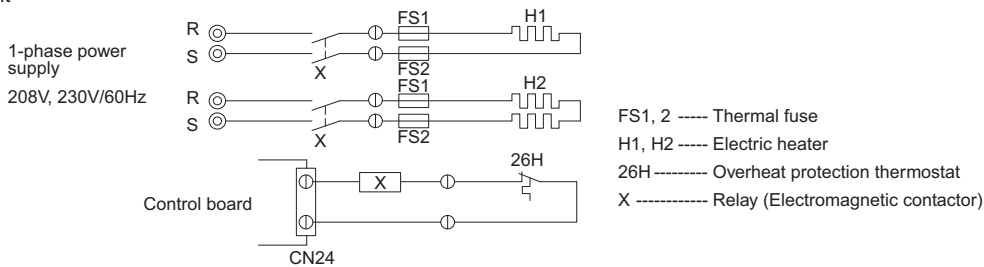
External heater adapter PAC-YU25HT is a set of special wiring parts for controlling the electric heater* with the air conditioner system.

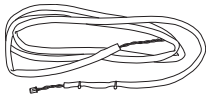
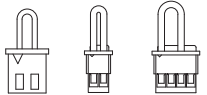
*The electric heater should be designed and prepared at the site.

A basic connection method is shown as follows:(For details, refer to its Installation Manual.)



(2) Recommended circuit



Item	① External output cable	② Connector (for use with the panel heater)	
Quantity	2	3	
Shape			

Wiring details and Installation details should be referred to its Installation Manual.