

PLFY-P-NCMU-E, PLYF-P-NBMU-E2

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1. SPECIFICATIONS

U11 2nd

Model			PLFY-P08NCMU-E	PLFY-P12NCMU-E	PLFY-P15NCMU-E		
Power source			1-phase 208-230 V 60Hz				
Cooling capacity (Nominal)	*1	BTU / h	8,000	12,000	15,000		
	*1	kW	2.3	3.5	4.4		
		Power input	kW	0.05	0.06	0.06	
		Current input	A	0.23	0.28	0.28	
Heating capacity (Nominal)	*2	BTU / h	9,000	13,500	17,000		
	*2	kW	2.6	4.0	5.0		
		Power input	kW	0.05	0.06	0.06	
		Current input	A	0.23	0.28	0.28	
External finish			-				
External dimension H x W x D		in.	8-3/16 x 22-7/16 x 22-7/16	8-3/16 x 22-7/16 x 22-7/16	8-3/16 x 22-7/16 x 22-7/16		
		mm	208 x 570 x 570	208 x 570 x 570	208 x 570 x 570		
Net weight		lbs (kg)	34 (15.5)	37 (17)	37 (17)		
Decoration panel	Model		SLP-15AAUW	SLP-15AAUW	SLP-15AAUW		
	External finish		6.4Y 8.9/0.4				
	Dimension		in.	25/32 x 25-19/32 x 25-19/32	25/32 x 25-19/32 x 25-19/32	25/32 x 25-19/32 x 25-19/32	
	H x W x D		mm	20 x 650 x 650	20 x 650 x 650	20 x 650 x 650	
Net Weight		lbs (kg)	7(3)	7(3)	7(3)		
Heat exchanger			Cross fin				
FAN	Type x Quantity		Turbo fan x 1	Turbo fan x 1	Turbo fan x 1		
	External static press	in.WG	0.000 (208V)	0.000 (208V)	0.000 (208V)		
		Pa	0	0	0		
		in.WG	0.000 (230V)	0.000 (230V)	0.000 (230V)		
		Pa	0	0	0		
	Motor type		1-phase induction motor				
	Motor output		kW	0.015	0.020	0.020	
	Driving mechanism		Direct-driven				
	Airflow rate (Low-Mid-High)	cfm	280-320-350	320-350-390	320-350-390		
		m3 / min	8.0-9.0-10.0	9.0-10.0-11.0	9.0-10.0-11.0		
L / s		133-150-167	150-167-183	150-167-183			
Sound pressure level (Low-Mid-High) (measured in anechoic room)	dB <A>		29-32-38 (208-230V)	30-34-39 (208-230V)	31-35-40(208-230V)		
	dB <A>		-	-	-		
	dB <A>		-	-	-		
Insulation material			Polyethylene foam				
Air filter			PP honey comb fabric				
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	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		
Field drain pipe size		in. (mm)	O.D. 1-1/4(32)	O.D. 1-1/4(32)	O.D. 1-1/4(32)		
Drawing	External		RG01N654				
	Wiring		RG79V389				
	Refrigerant cycle		-				
Standard attachment	Document		Installation Manual, Installation Book				
	Accessory		Drain hose<1-1/4in.(32mm)>				
Optional parts	External heater adapter		PAC-YU25HT	PAC-YU25HT	PAC-YU25HT		
	Decoration panel		SLP-15AAUW	SLP-15AAUW	SLP-15AAUW		
Remarks			* PLY-P-NCMU-E should used together with SLP-15AAUW. * 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 convertor
	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.

1. SPECIFICATIONS

U11 2nd

Model		PLFY-P08NBMU-E2 *3	PLFY-P12NBMU-E2	PLFY-P15NBMU-E2	PLFY-P18NBMU-E2	
Power source		1-phase 208-230 V 60Hz				
Cooling capacity (Nominal)	*1 BTU / h	8,000	12,000	15,000	18,000	
	*1 kW	2.3	3.5	4.4	5.3	
	Power input kW	0.03	0.03	0.03	0.04	
	Current input A	0.31	0.31	0.31	0.33	
Heating capacity (Nominal)	*2 BTU / h	9,000	13,500	17,000	20,000	
	*2 kW	2.6	4.0	5.0	5.9	
	Power input kW	0.02	0.02	0.02	0.03	
	Current input A	0.24	0.24	0.24	0.26	
External finish		Galvanized steel sheet				
External dimension H x W x D		in.	10-3/16 x 33-3/32 x 33-3/32	10-3/16 x 33-3/32 x 33-3/32	10-3/16 x 33-3/32 x 33-3/32	10-3/16 x 33-3/32 x 33-3/32
		mm	258 x 840 x 840	258 x 840 x 840	258 x 840 x 840	258 x 840 x 840
Net weight		lbs (kg)	51 (23)	51 (23)	51 (23)	51 (23)
Decoration panel	Model	PLP-40BAU	PLP-40BAU	PLP-40BAU	PLP-40BAU	
	External finish		MUNSELL (6.4Y 8.9/0.4)			
	Dimension	in.	1-3/8 x 37-13/32 x 37-13/32	1-3/8 x 37-13/32 x 37-13/32	1-3/8 x 37-13/32 x 37-13/32	1-3/8 x 37-13/32 x 37-13/32
	H x W x D	mm	35 x 950 x 950	35 x 950 x 950	35 x 950 x 950	35 x 950 x 950
	Net Weight	lbs (kg)	13 (6)	13 (6)	13 (6)	13 (6)
Heat exchanger		Cross fin				
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	0.000 (208V)	0.000 (208V)	0.000 (208V)	0.000 (208V)
		Pa	0	0	0	0
		in.WG	0.000 (230V)	0.000 (230V)	0.000 (230V)	0.000 (230V)
		Pa	0	0	0	0
	Motor type		DC motor			
	Motor output	kW	0.050	0.050	0.050	0.050
	Driving mechanism		Direct-driven			
	Airflow rate (Low-Mid2-Mid1-High)	cfm	494 - 530 - 548 - 565	494 - 530 - 548 - 565	494 - 530 - 548 - 565	494 - 530 - 565 - 636
		m3 / min	14.0 - 15.0 - 15.5 - 16.0	14.0 - 15.0 - 15.5 - 16.0	14.0 - 15.0 - 15.5 - 16.0	14.0 - 15.0 - 16.0 - 18.0
L / s		233 - 250 - 258 - 267	233 - 250 - 258 - 267	233 - 250 - 258 - 267	233 - 250 - 267 - 300	
Sound pressure level (Low-Mid2-Mid1-High) (measured in anechoic room)	dB <A>	27 - 29 - 30 - 31(208-230V)	27 - 29 - 30 - 31(208-230V)	28 - 29 - 30 - 31(208-230V)	28 - 30 - 31- 32(208-230V)	
	dB <A>	-	-	-	-	
	dB <A>	-	-	-	-	
Insulation material		PS				
Air filter		PP honeycomb (long life filter, anti-bacterial type)				
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	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)
Standard attachment	Document	Installation Manual, Instruction Book				
	Accessory					
Optional parts	External heater adapter	PAC-YU25HT	PAC-YU25HT	PAC-YU25HT	PAC-YU25HT	
	Air outlet shutter plate	PAC-SH51SP-E	PAC-SH51SP-E	PAC-SH51SP-E	PAC-SH51SP-E	
	High efficiency filter element	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	
	i-see sensor corner panel	PAC-SA1ME-E	PAC-SA1ME-E	PAC-SA1ME-E	PAC-SA1ME-E	
	Flange for fresh air intake	PAC-SH65OF-E	PAC-SH65OF-E	PAC-SH65OF-E	PAC-SH65OF-E	
	Wireless signal receiver	PAR-SF9FA-E	PAR-SF9FA-E	PAR-SF9FA-E	PAR-SF9FA-E	
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. * PLYF-P08NBMU-E2 is not connected to PUMY series.				

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)	
	*3 PLYF-P08NBMU-E2 cannot be connected to PUMY outdoor units.		*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

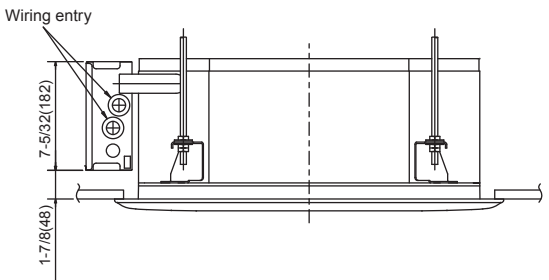
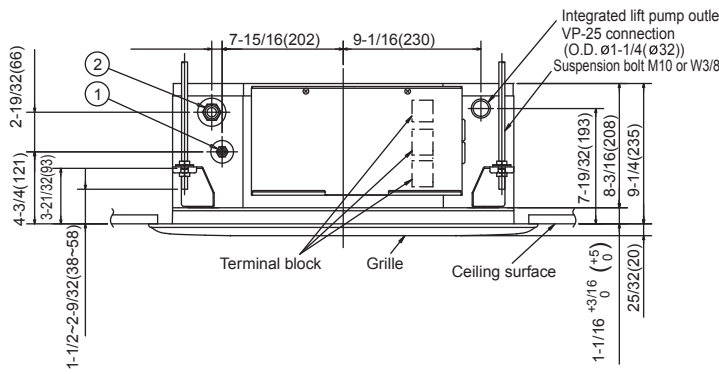
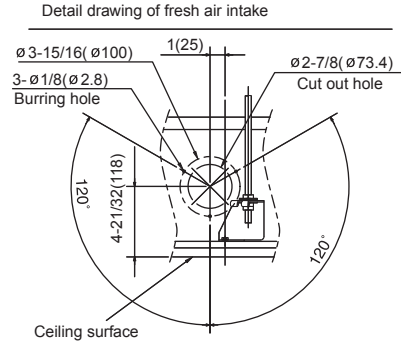
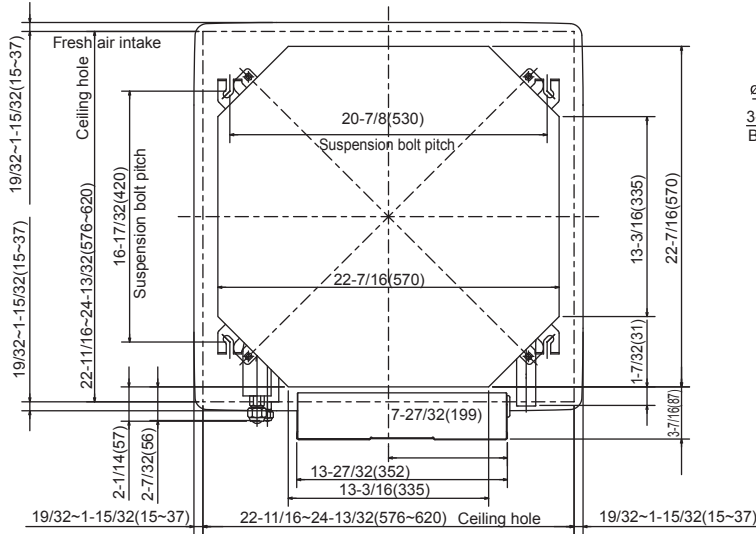
U11 2nd

Model		PLFY-P24NBMU-E2	PLFY-P30NBMU-E2	PLFY-P36NBMU-E2		
Power source		1-phase 208-230 V 60Hz				
Cooling capacity (Nominal)	*1 BTU / h	24,000	30,000	36,000		
	*1 kW	7.0	8.8	10.5		
	Power input kW	0.05	0.05	0.09		
	Current input A	0.47	0.50	0.87		
Heating capacity (Nominal)	*2 BTU / h	27,000	34,000	40,000		
	*2 kW	7.9	10.0	11.7		
	Power input kW	0.04	0.04	0.08		
	Current input A	0.40	0.43	0.80		
External finish		Galvanized steel sheet				
External dimension H x W x D		in.	11-3/4 x 33-3/32 x 33-3/32	11-3/4 x 33-3/32 x 33-3/32	11-3/4 x 33-3/32 x 33-3/32	
		mm	298 x 840 x 840	298 x 840 x 840	298 x 840 x 840	
Net weight		lbs (kg)	60 (27)	60 (27)	60 (27)	
Decoration panel	Model	PLP-40BAU	PLP-40BAU	PLP-40BAU		
	External finish		MUNSELL (6.4Y 8.9/0.4)			
	Dimension H x W x D	in.	1-3/8 x 37-13/32 x 37-13/32	1-3/8 x 37-13/32 x 37-13/32	1-3/8 x 37-13/32 x 37-13/32	
		mm	35 x 950 x 950	35 x 950 x 950	35 x 950 x 950	
	Net Weight	lbs (kg)	13 (6)	13 (6)	13 (6)	
Heat exchanger		Cross fin				
FAN	Type x Quantity		Turbo fan x 1	Turbo fan x 1	Turbo fan x 1	
	External static press	in.WG	0.000 (208V)	0.000 (208V)	0.000 (208V)	
		Pa	0	0	0	
		in.WG	0.000 (230V)	0.000 (230V)	0.000 (230V)	
		Pa	0	0	0	
	Motor type		DC motor			
	Motor output	kW	0.050	0.050	0.120	
	Driving mechanism		Direct-driven			
	Airflow rate (Low-Mid2-Mid1-High)	cfm	565 - 636 - 706 - 777	565 - 636 - 742 - 812	777 - 883 - 989 - 1,059	
		m3 / min	16.0 - 18.0 - 20.0 - 22.0	16.0 - 18.0 - 21.0 - 23.0	22.0 - 25.0 - 28.0 - 30.0	
L / s		267 - 300 - 333 - 367	267 - 300 - 350 - 384	367 - 417 - 467 - 500		
Sound pressure level (Low-Mid2-Mid1-High) (measured in anechoic room)	dB <A>	28 - 31 - 34 - 37(208-230V)	28 - 32 - 35 - 37(208-230V)	35 - 38 - 41 - 43(208-230V)		
	dB <A>	-	-	-		
	dB <A>	-	-	-		
Insulation material		PS				
Air filter		PP honeycomb (long life filter, anti-bacterial type)				
Protection device		Fuse				
Refrigerant control device		LEV				
Connectable outdoor unit		R410A CITY MULTI				
Diameter of refrigerant pipe (O.D.)	Liquid (R410A)	in. (mm)	3/8 (9.52) Flare	3/8 (9.52) Flare	3/8 (9.52) Flare	
	Gas (R410A)	in. (mm)	5/8 (15.88) Flare	5/8 (15.88) Flare	5/8 (15.88) 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)	
Standard attachment	Document	Installation Manual, Instruction Book				
	Accessory					
Optional parts	External heater adapter		PAC-YU25HT	PAC-YU25HT	PAC-YU25HT	
	Air outlet shutter plate		PAC-SH51SP-E	PAC-SH51SP-E	PAC-SH51SP-E	
	High efficiency filter element		PAC-SH59KF-E	PAC-SH59KF-E	PAC-SH59KF-E	
	Multi-function casement		PAC-SH53TM-E	PAC-SH53TM-E	PAC-SH53TM-E	
	i-see sensor corner panel		PAC-SA1ME-E	PAC-SA1ME-E	PAC-SA1ME-E	
	Flange for fresh air intake		PAC-SH65OF-E	PAC-SH65OF-E	PAC-SH65OF-E	
Wireless signal receiver		PAR-SF9FA-E	PAR-SF9FA-E	PAR-SF9FA-E		
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.				

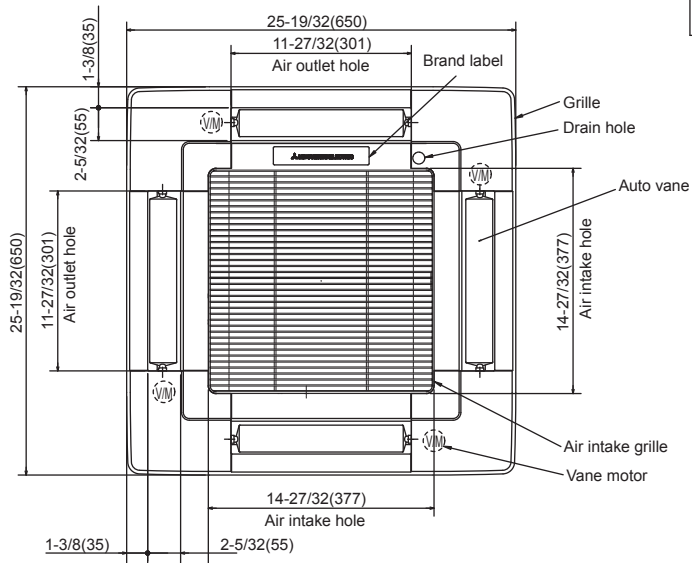
Notes :	*1 Nominal cooling conditions	*2 Nominal heating conditions	Unit convertor
Indoor :	80degF D.B. / 67degF W.B. (26.7degC D.B. / 19.4degC W.B.)	70degF D.B. (21.1degC D.B.)	kcal/h = kW x 860
Outdoor :	95degF D.B. (35degC D.B.)	47degF D.B. / 43degF W.B. (8.3degC D.B. / 6.1degC W.B.)	BTU/h = kW x 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.

PLFY-P08, 12, 15 NCMU-E

Unit : in.(mm)



Suspension bolt lower edge

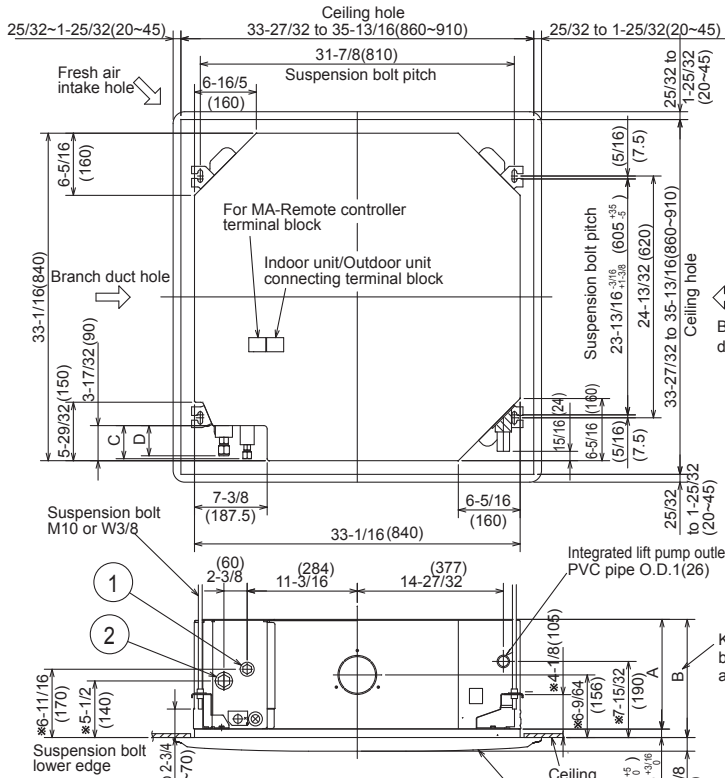


Models	Unit : in.(mm)	
	①	②
PLFY-P08NCMU-E.TH	Refrigerant pipe (1/4 (6.35) dia.)	Refrigerant pipe (1/2 (12.7) dia.)
PLFY-P12NCMU-E.TH	flared connection 1/4	flared connection 1/2
PLFY-P15NCMU-E.TH		

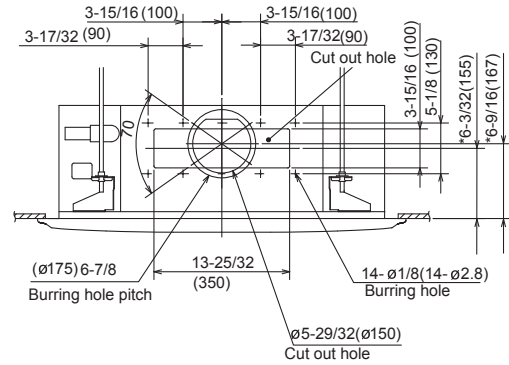
PLFY-NCMU/NCMU

PLFY-P08, 12, 15, 18, 24, 30, 36 NBMU-E2

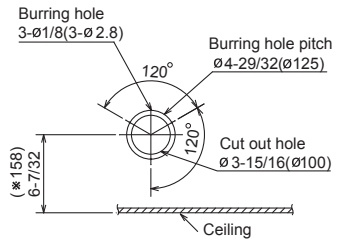
Unit : in. (mm)



Detail connecting of branch duct(Both aspects)



Detail drawing of fresh air intake hole

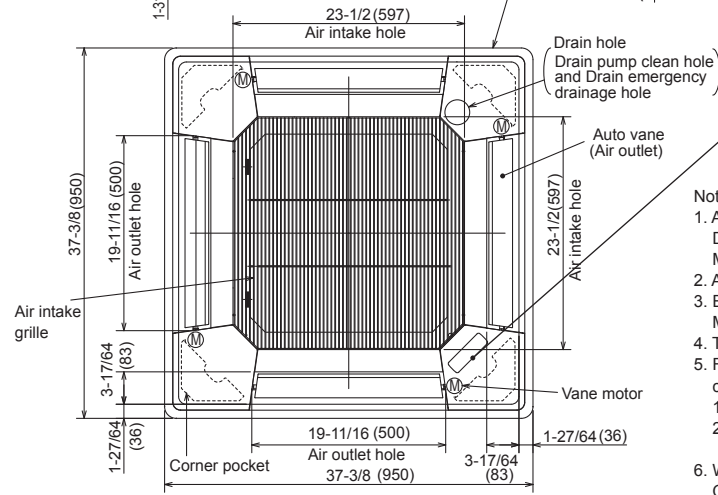
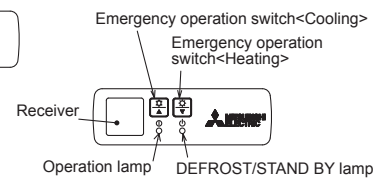


Integrated lift pump outlet PVC pipe O.D.1(26) (Connected the attached flexible pipe or socket. I.D.1(26))

Keep 25/64(10) to 19/32(15) between unit ceiling and ceiling slab.

In case of standard grille

In case of wireless remote controller

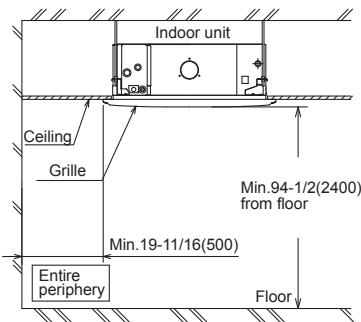


Note:

- As for drain pipe, please use VP-25 O.D. 1-1/4(32) PVC TUBE. Drain pump is included. Max. lifting height is 33-7/16 (850mm) from the ceiling.
 - As for suspension bolt, please use M10 or W3/8. (Procured at local site)
 - Electrical box may be removed for the service purpose. Make sure to slack the electrical wire little bit for control/power wires connection.
 - The height of the indoor unit is able to be adjusted with the grille attached.
 - For the installation of the optional high efficiency filter or optional multi-functional casement.
 - Add 5-5/16"(135mm) to the dimensions * marked on the figure.
 - The optional high efficiency filter becomes optional multi-functional casement and concomitant use.
 - When installing the branch ducts, be sure to insulate adequately. Otherwise condensation and dripping may occur. (It becomes the cause of dew drops/water dew.)
- As for necessary installation / service space, please refer to the left figure.

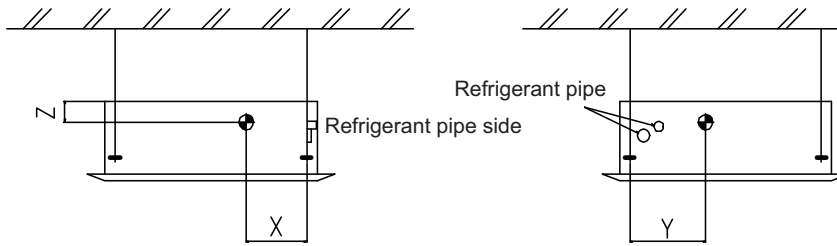
Accessory--Drain socket(I.D.1-1/4(32))

- Flare nut 3/8 (For P18)
- Flare nut 5/8 (For P18)
- Flare nut 3/4 (For P36)



Models	1	2	A	B	C	D
PLFY-P08NBMU-E2 PLFY-P12NBMU-E2 PLFY-P15NBMU-E2	Refrigerant pipe ... \varnothing 6.35 Flared connection ... 1/4	Refrigerant pipe ... \varnothing 12.7 Flared connection ... 1/2				
PLFY-P18NBMU-E2	Refrigerant pipe \varnothing 6.35 Flared connection 1/4 (compatible)	Refrigerant pipe \varnothing 12.7 Flared connection 1/2 (compatible)	9-1/2 (241)	10-3/16 (258)	3-5/32 (80)	2-29/32 (74)
PLFY-P24NBMU-E2 PLFY-P30NBMU-E2 PLFY-P36NBMU-E2	Refrigerant pipe ... \varnothing 9.52 Flared connection ... 3/8	Refrigerant pipe ... \varnothing 15.88 Flared connection 5/8 (compatible)	11-1/16 (281)	11-3/4 (298)	3-11/32 (85)	3-1/32 (77)

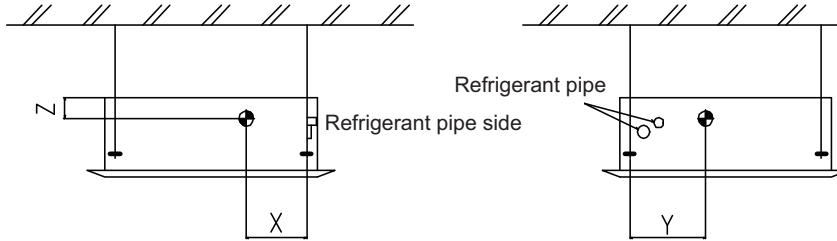
PLFY-P08, 12, 15NCMU-E



(mm)[in]

Model name	X	Y	Z
PLFY-P08NCMU-E	150 [5-29/32]	260 [10-1/4]	105 [4-5/32]
PLFY-P12NCMU-E	150 [5-29/32]	260 [10-1/4]	105 [4-5/32]
PLFY-P15NCMU-E	150 [5-29/32]	260 [10-1/4]	105 [4-5/32]

PLFY-P08, 12, 15, 18, 24, 30, 36NBMU-E2



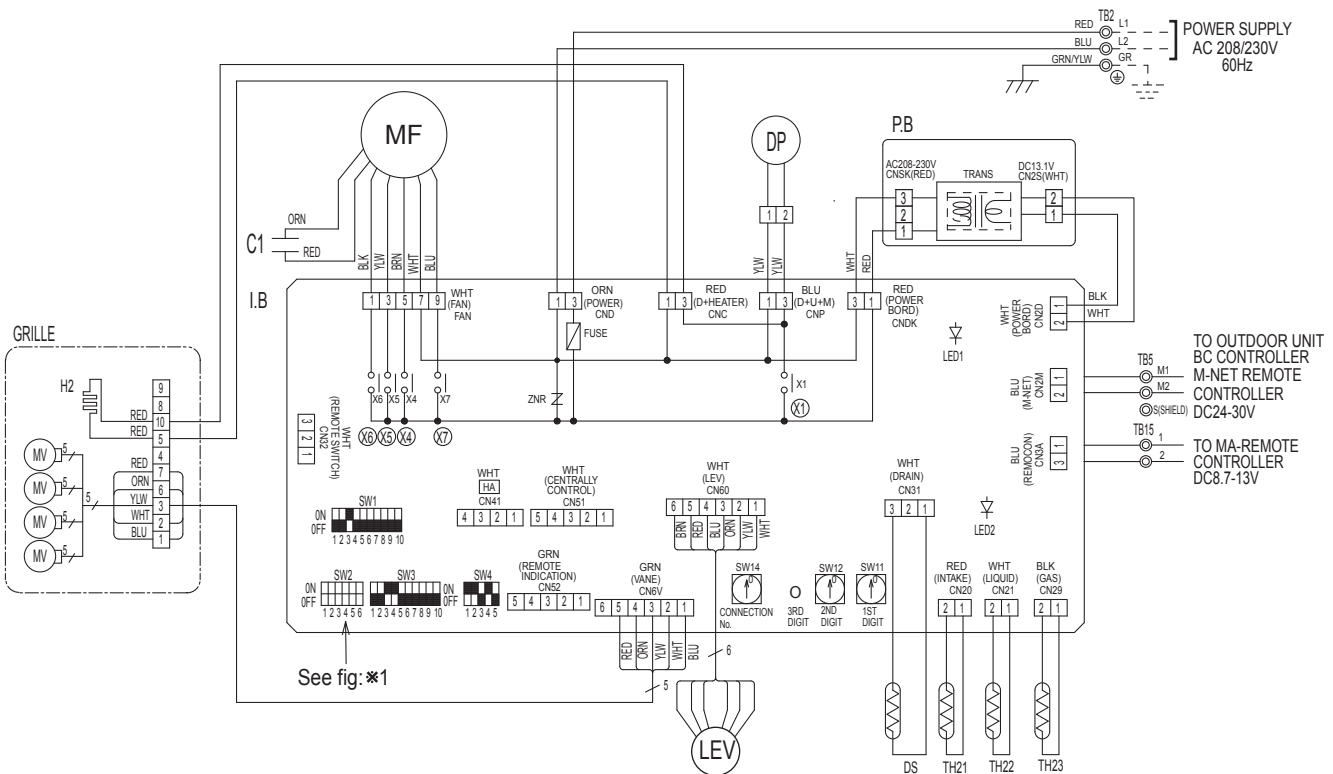
(mm)[in]

Model name	X	Y	Z
PLFY-P08NBMU-E2	280 [11-1/32]	400 [15-3/4]	105 [4-5/32]
PLFY-P12NBMU-E2	280 [11-1/32]	400 [15-3/4]	105 [4-5/32]
PLFY-P15NBMU-E2	280 [11-1/32]	400 [15-3/4]	105 [4-5/32]
PLFY-P18NBMU-E2	280 [11-1/32]	400 [15-3/4]	105 [4-5/32]
PLFY-P24NBMU-E2	280 [11-1/32]	400 [15-3/4]	125 [4-15/16]
PLFY-P30NBMU-E2	280 [11-1/32]	400 [15-3/4]	125 [4-15/16]
PLFY-P36NBMU-E2	280 [11-1/32]	400 [15-3/4]	125 [4-15/16]

PLFY-P08,12,15 NCMU-E

[LEGEND]

SYMBOL	NAME	SYMBOL	NAME
I.B	INDOOR CONTROLLER BOARD	C1	CAPACITOR (FAN MOTOR)
CN32	CONNECTOR	DP	DRAIN PUMP
CN41	CONNECTOR	DS	DRAIN SENSOR
CN51	CONNECTOR	H2	DEW PREVENTION HEATER
CN52	CONNECTOR	LEV	LINEAR EXPANSION VALVE
FUSE	FUSE (6.3A/250V)	MF	FAN MOTOR (WITH THERMAL FUSE)
SW1	SWITCH	MV	VANE MOTOR
SW2	SWITCH	TB2	TERMINAL BLOCK
SW3	SWITCH	TB5	TERMINAL BLOCK
SW4	SWITCH	TB15	TERMINAL BLOCK
SW11	SWITCH	TH21	THERMISTOR
SW12	SWITCH	TH22	THERMISTOR
SW14	SWITCH	TH23	THERMISTOR
X1	AUX. RELAY	P.B	INDOOR POWER BOARD
X4	AUX. RELAY		
X5	AUX. RELAY		
X6	AUX. RELAY		
X7	AUX. RELAY		
ZNR	VARISTOR		



LED on indoor controller board for service

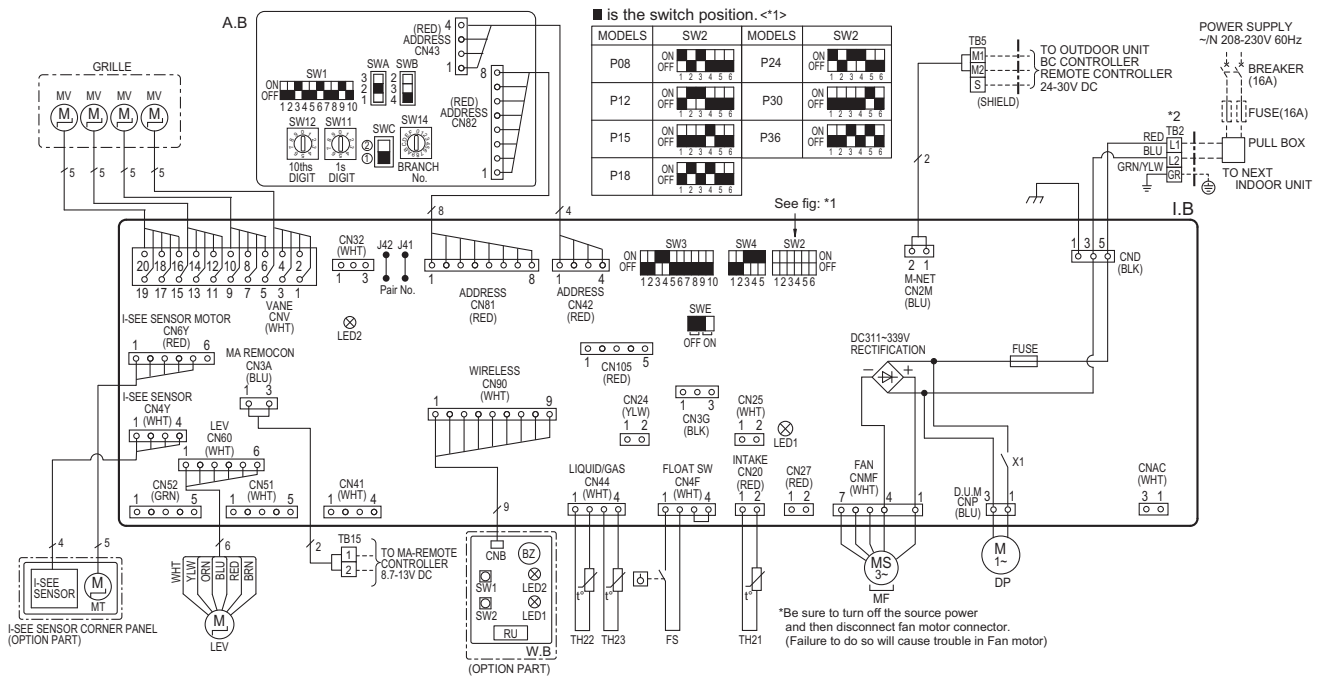
Mark	Meaning	Function
LED1	Main power supply	Main power supply(Indoor unit:208-230V) power on -> Lamp is lit.
LED2	Power supply for MA-Remote controller	Power supply for MA-Remote controller on -> Lamp is lit.

- 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.
 - Use copper supply wire.

<fig: *1>

MODELS	SW2
P08	ON OFF 123456
P12	ON OFF 123456
P15	ON OFF 123456

PLFY-P08, 12, 15, 18, 24, 30, 36NBMU-E2



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 fig < *1 >.
- *2. Use copper supply wires.
*2. Utilisez des fils d'alimentation en cuivre.

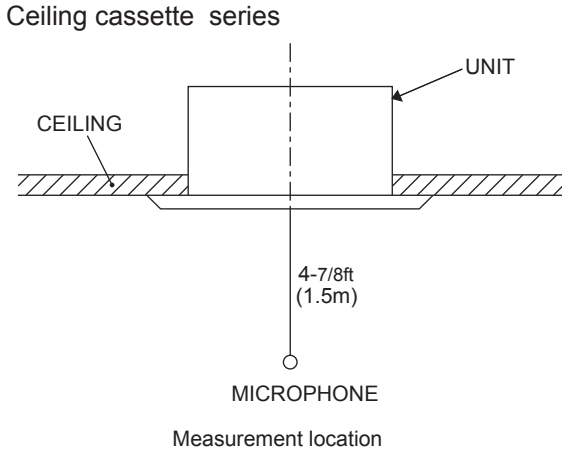
[LEGEND]

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
I. B	INDOOR CONTROLLER BOARD	DP	DRAIN PUMP	A. B	ADDRESS BOARD
CN24	CONNECTOR	FS	EXTERNAL HEATER	SWA	SWITCH
CN27		LEV	DAMPEN	SWB	SWITCH
CN32		MF	FAN MOTOR	SWC	OPTION SELECTOR
CN51		MV	VANE MOTOR	SW1	MODE SELECTION
CN52		TB2	TERMINAL	SW11	ADDRESS SETTING 1s DIGIT
CN105		TB5	BLOCK	SW12	ADDRESS SETTING 10ths DIGIT
FUSE	FUSE (T6.3AL250V)	TB15	MA-REMOTE CONTROLLER	SW14	BRANCH NO.
LED1	POWER SUPPLY (I. B)	TH21	THERMISTOR	OPTION PART	
LED2	POWER SUPPLY (I. B)	TH22	PIPE TEMP. DETECTION / LIQUID (32°F/15kΩ, 77°F/5.4kΩ)	W. B	PCB FOR WIRELESS REMOTE CONTROLLER
SW2	SWITCH	TH23	PIPE TEMP. DETECTION / GAS (32°F/15kΩ, 77°F/5.4kΩ)	BZ	BUZZER
SW3	SWITCH			LED1	LED (OPERATION INDICATION : GREEN)
SW4	SWITCH			LED2	LED (PREPARATION FOR HEATING : ORANGE)
SWE	DRAIN PUMP (TEST MODE)			RU	RECEIVING UNIT
X1	AUX. RELAY			SW1	EMERGENCY OPERATION (HEAT / DOWN)
				SW2	EMERGENCY OPERATION (COOL / UP)
				MT	I-SEE SENSOR MOTOR

LED on indoor board for service

Mark	Meaning	Function
LED1	Main power supply	Main Power supply (Indoor unit:208-230V) power on → lamp is lit
LED2	Power supply for MA-Remote controller	Power supply for MA-Remote controller on → lamp is lit

5-1. Sound levels



Operating sound levels
(Low-Middle2-Middle1-High)

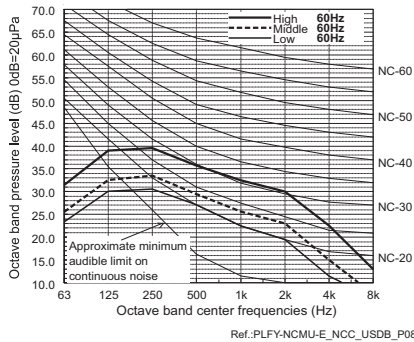
Unit: dB(A)

Model	Sound level (A weighted)
PLFY-P08NCMU-E	29-32-38
PLFY-P12NCMU-E	30-34-39
PLFY-P15NCMU-E	31-35-40
PLFY-P08NBMU-E2	27-29-30-31
PLFY-P12NBMU-E2	27-29-30-31
PLFY-P15NBMU-E2	28-29-30-31
PLFY-P18NBMU-E2	28-29-30-32
PLFY-P24NBMU-E2	28-31-34-37
PLFY-P30NBMU-E2	28-32-35-37
PLFY-P36NBMU-E2	35-38-41-43

5-2. NC curves

PLFY-P08NCMU-E

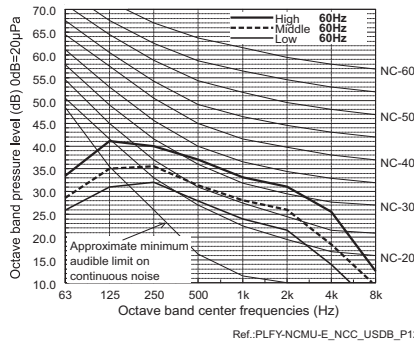
External Static Pressure: 0Pa [0.00 in.WG]
Power Source: 208-230V 60Hz



Ref.:PLFY-NCMU-E_NCC_USDB_P08

PLFY-P12NCMU-E

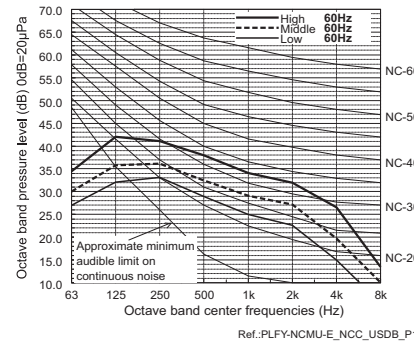
External Static Pressure: 0Pa [0.00 in.WG]
Power Source: 208-230V 60Hz



Ref.:PLFY-NCMU-E_NCC_USDB_P12

PLFY-P15NCMU-E

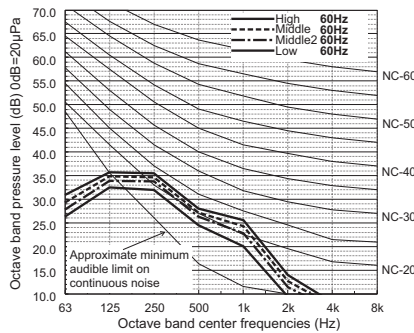
External Static Pressure: 0Pa [0.00 in.WG]
Power Source: 208-230V 60Hz



Ref.:PLFY-NCMU-E_NCC_USDB_P15

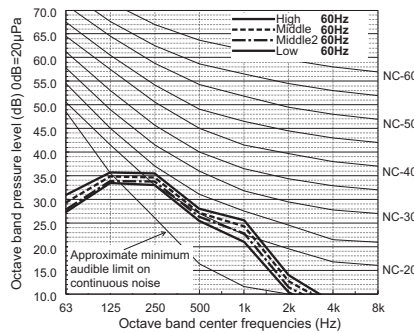
PLFY-P08/12NBMU-E2

External Static Pressure: 0Pa [0.00 in.WG]
Power Source: 208-230V 60Hz



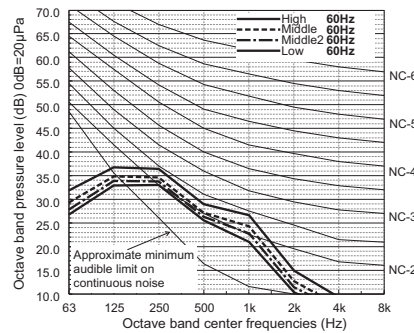
PLFY-P15NBMU-E2

External Static Pressure: 0Pa [0.00 in.WG]
Power Source: 208-230V 60Hz



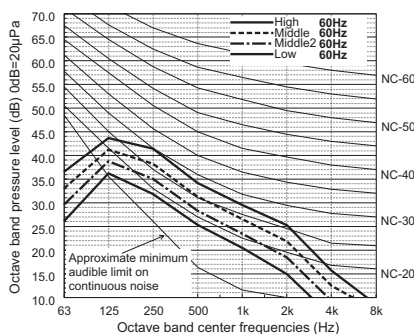
PLFY-P18NBMU-E2

External Static Pressure: 0Pa [0.00 in.WG]
Power Source: 208-230V 60Hz



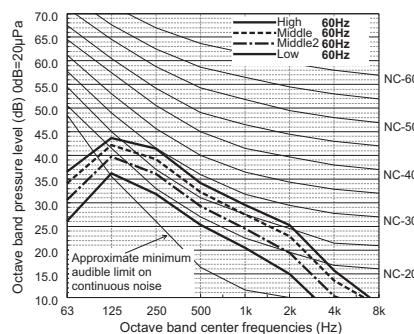
PLFY-P24NBMU-E2

External Static Pressure: 0Pa [0.00 in.WG]
Power Source: 208-230V 60Hz



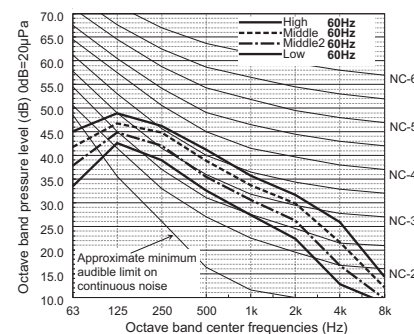
PLFY-P30NBMU-E2

External Static Pressure: 0Pa [0.00 in.WG]
Power Source: 208-230V 60Hz

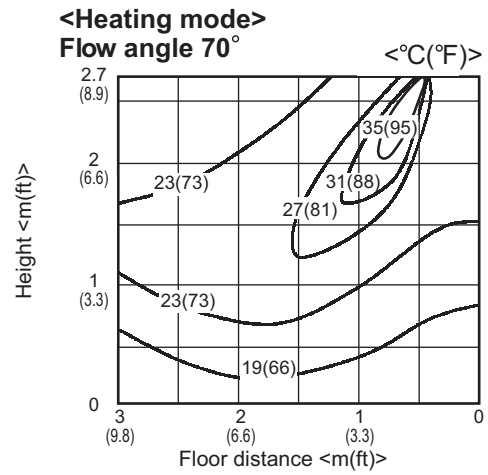
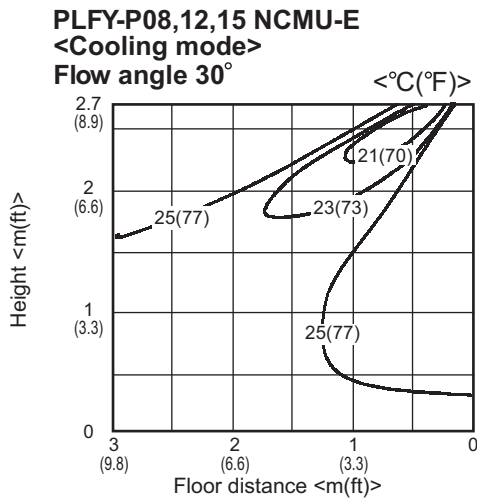


PLFY-P36NBMU-E2

External Static Pressure: 0Pa [0.00 in.WG]
Power Source: 208-230V 60Hz



6-1. Temperature distributions

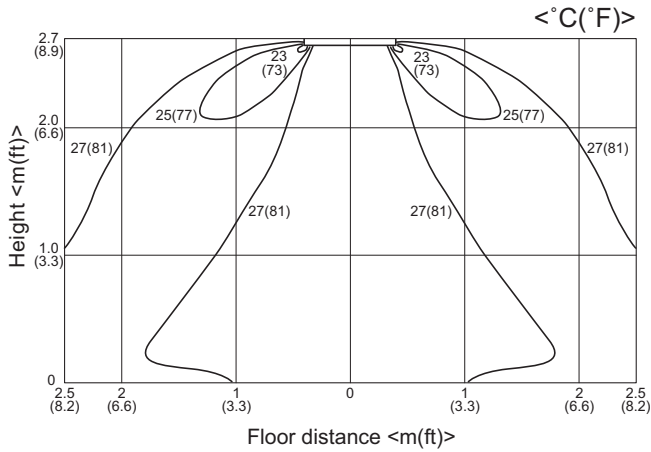


PLFY-P08NBMU-E2

<Cooling mode> Standard

Flow angle : 30° 4-way flow

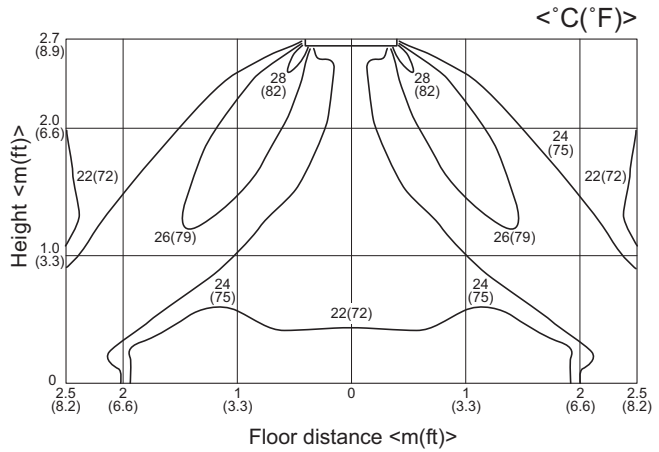
ceiling height : 2.7 m(8.9ft)



<Heating mode> Standard

Flow angle : 60° 4-way flow

ceiling height : 2.7 m(8.9ft)

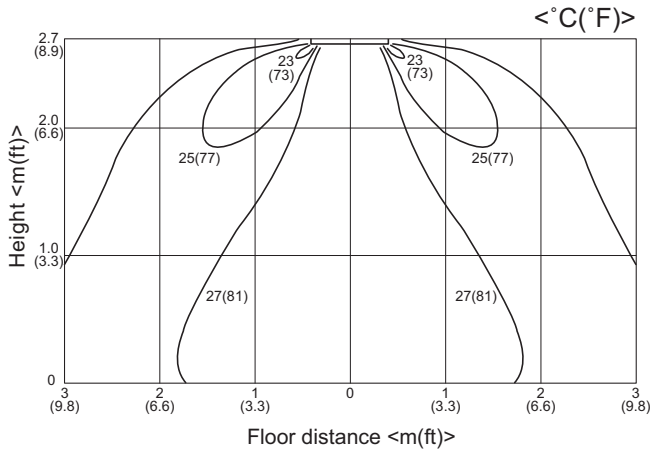


PLFY-P12, 15NBMU-E2

<Cooling mode> Standard

Flow angle : 30° 4-way flow

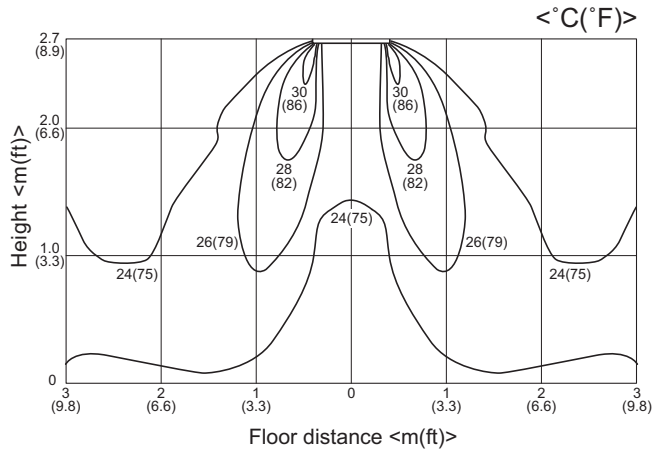
ceiling height : 2.7 m(8.9ft)



<Heating mode> Standard

Flow angle : 60° 4-way flow

ceiling height : 2.7 m(8.9ft)

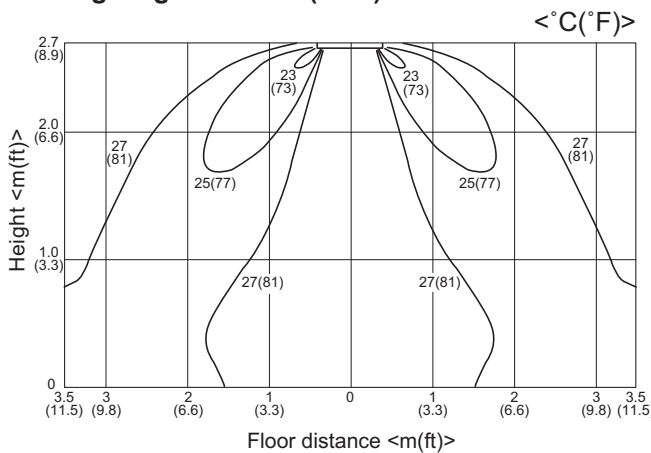


PLFY-P18NBMU-E2

<Cooling mode> Standard

Flow angle : 30° 4-way flow

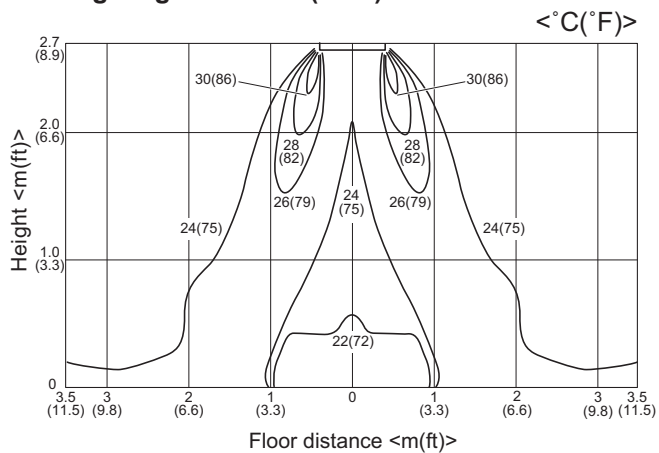
ceiling height : 2.7 m(8.9ft)



<Heating mode> Standard

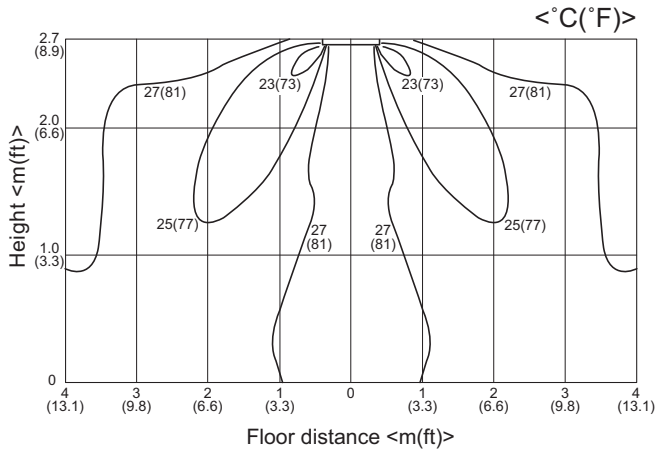
Flow angle : 60° 4-way flow

ceiling height : 2.7 m(8.9ft)

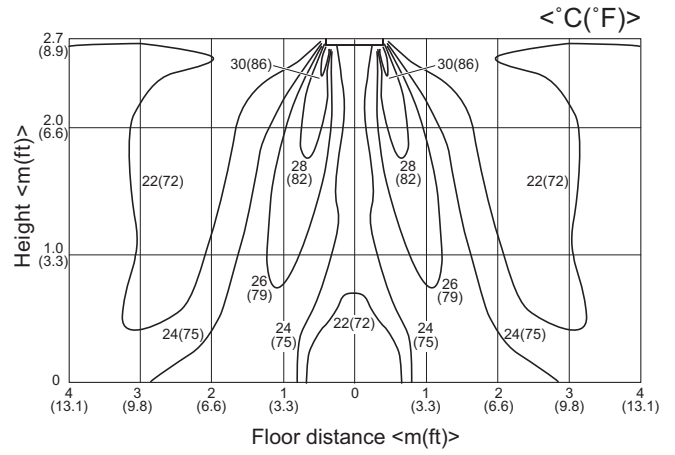


Note : These figures show typical temperature distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

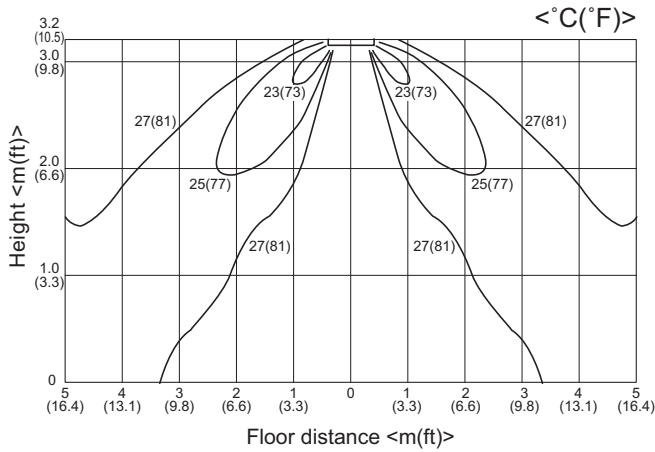
PLFY-P24, 30NBMU-E2
 <Cooling mode> Standard
 Flow angle : 30° 4-way flow
 ceiling height : 2.7 m(8.9ft)



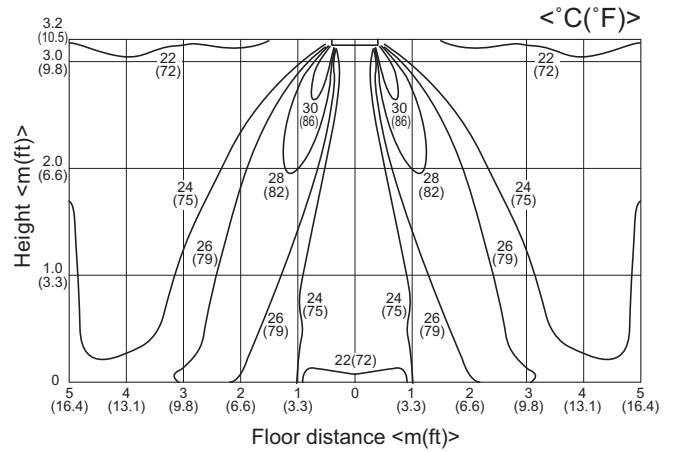
<Heating mode> Standard
 Flow angle : 60° 4-way flow
 ceiling height : 2.7 m(8.9ft)



PLFY-P36NBMU-E2
 <Cooling mode> Standard
 Flow angle : 30° 4-way flow
 ceiling height : 3.2 m(10.4ft)



<Heating mode> Standard
 Flow angle : 60° 4-way flow
 ceiling height : 3.2 m(10.4ft)



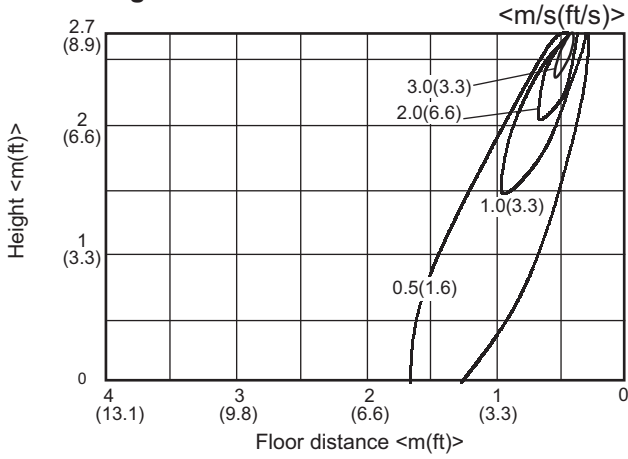
PLFY-NQMUNBMU

6-2. Airflow distributions

PLFY-P08,12,15 NCMU-E

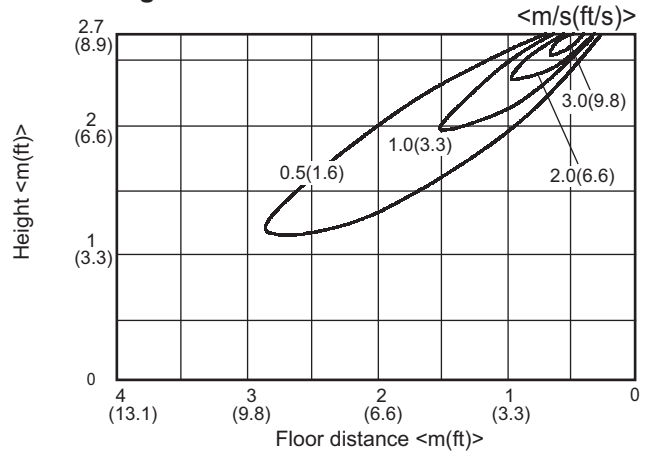
<Fan mode>

Flow angle 70°



<Fan mode>

Flow angle 30°

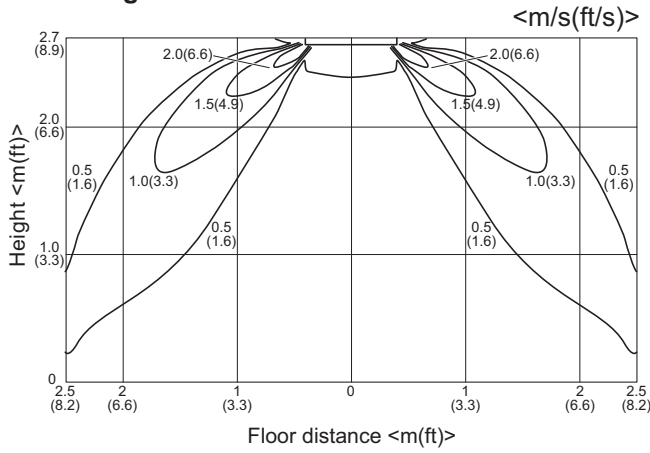


PLFY-NCMU/NBMU

PLFY-P08NBMU-E2

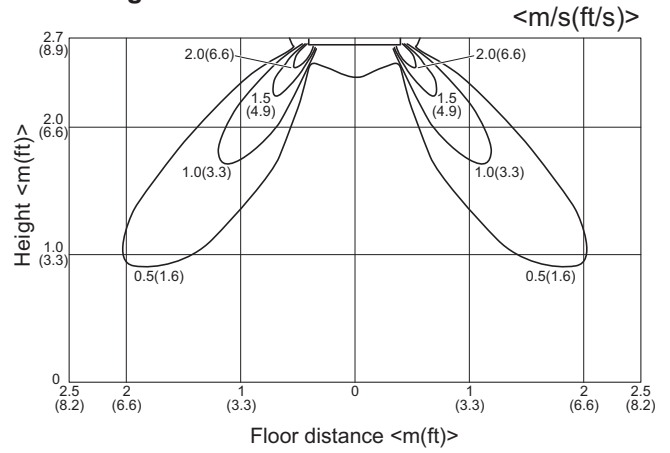
<Cooling mode>

Flow angle : 30°



<Heating mode>

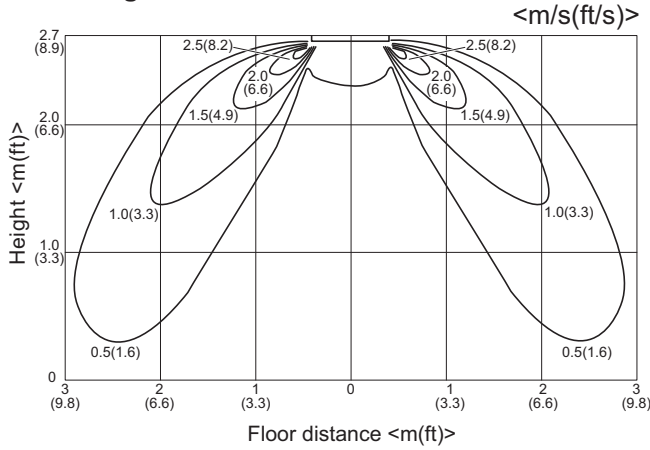
Flow angle : 60°



PLFY-P12, 15NBMU-E2

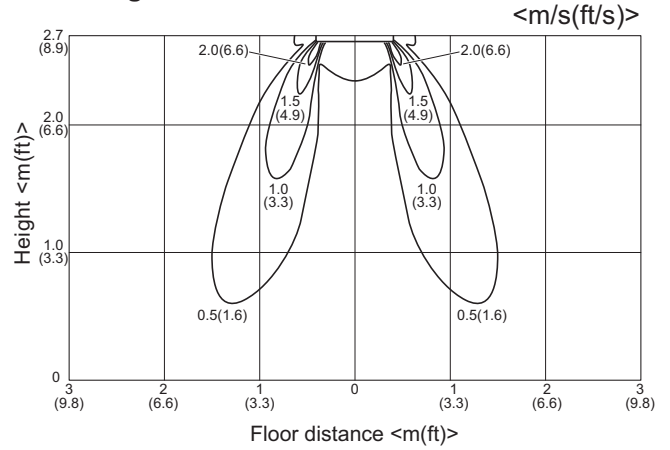
<Cooling mode>

Flow angle : 30°



<Heating mode>

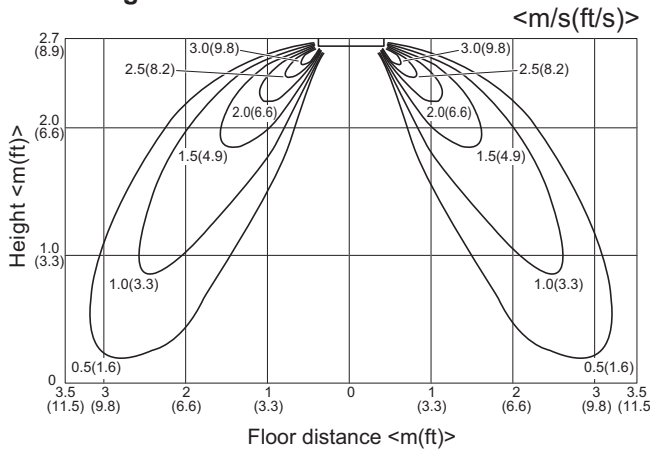
Flow angle : 60°



PLFY-P18NBMU-E2

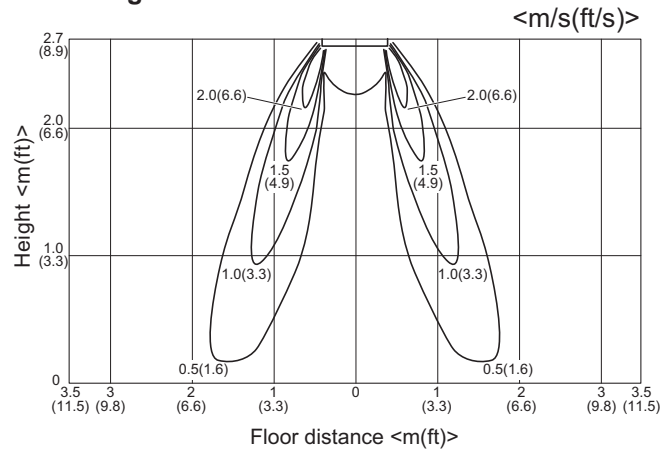
<Cooling mode>

Flow angle : 30°



<Heating mode>

Flow angle : 60°



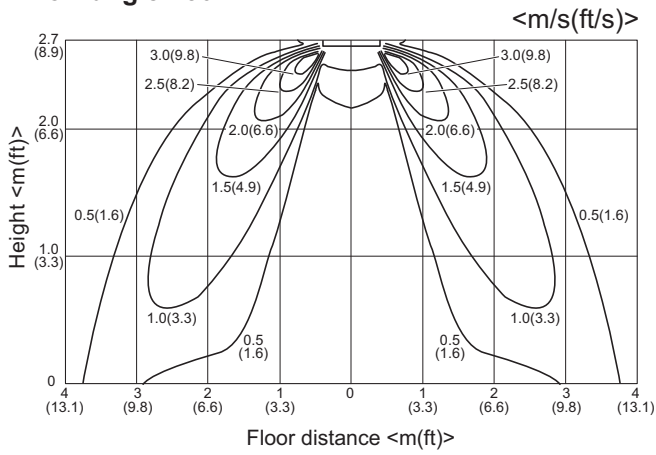
Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

PLFY-NQMUNBMU

PLFY-P24, 30NBMU-E2

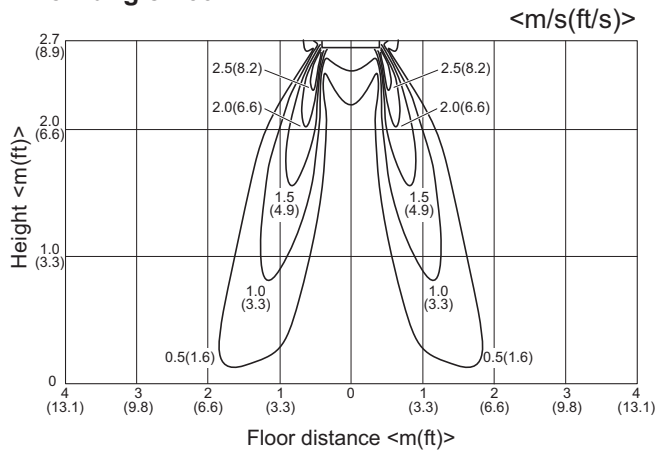
<Cooling mode>

Flow angle : 30°



<Heating mode>

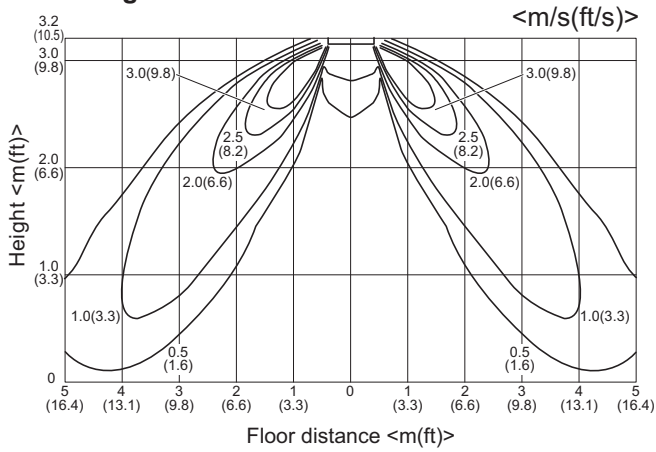
Flow angle : 60°



PLFY-P36NBMU-E2

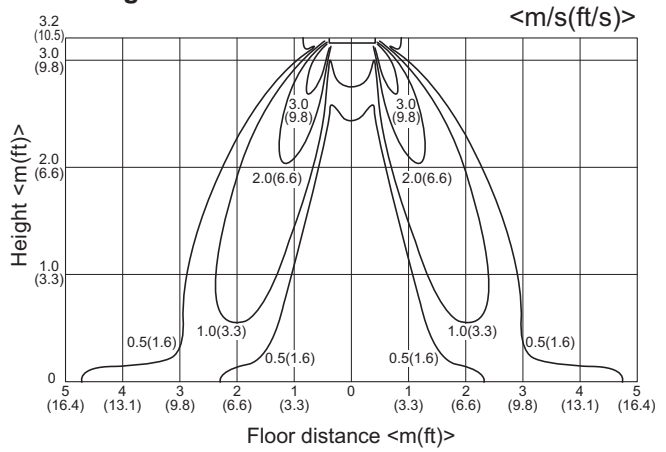
<Cooling mode>

Flow angle : 30°



<Heating mode>

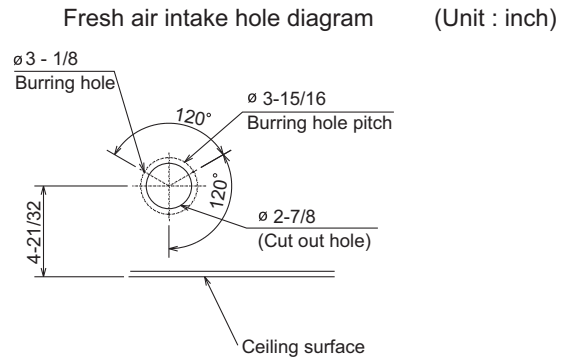
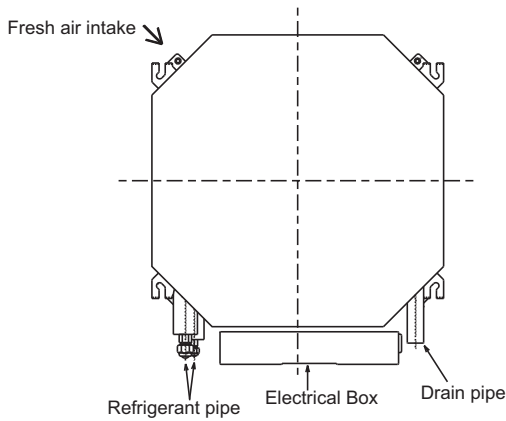
Flow angle : 60°



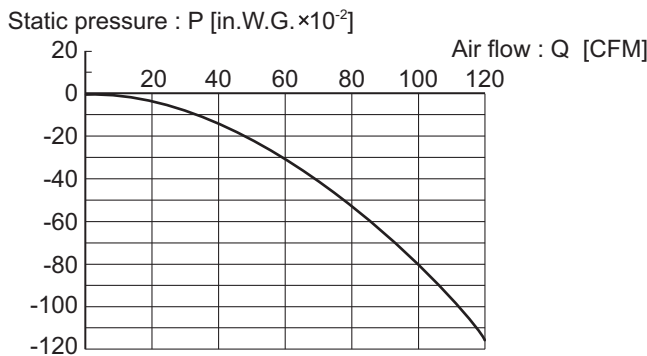
PLFY-NCMU/NBMU

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-P08, 12, 15NCMU-E

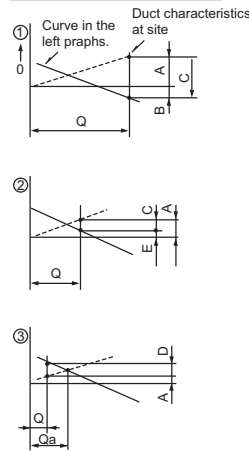


Taking air into the unit



NOTE: Fresh air intake amount should be 20% or less of whole air amount to prevent dew dripping.

How to read curves

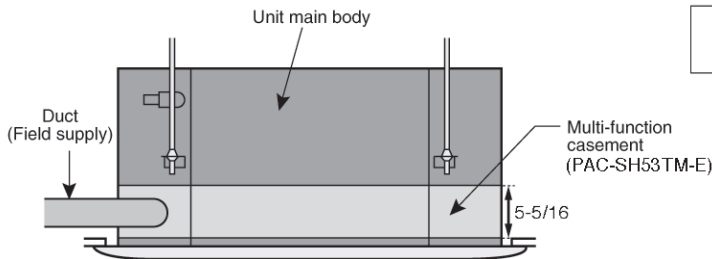


- Q...Planned amount of fresh air intake <CFM>
- A...Static pressure loss of fresh air intake duct system with air flow amount Q <in. W.G. × 10⁻²>
- B...Forced static pressure at air conditioner inlet with air flow amount Q <in. W.G. × 10⁻²>
- C...Static pressure of booster fan with air flow amount Q <in. W.G. × 10⁻²>
- D...Static pressure loss increase amount of fresh air intake dust system for air flow amount Q <in. W.G. × 10⁻²>
- E...Static pressure of indoor unit with air flow amount Q <in. W.G. × 10⁻²>
- Qa...Estimated amount of fresh air intake with out D <CFM>

PLFY-NQMUNBMU

● PLFY-P08, 12, 15, 18, 24, 30, 36NBMU-E2

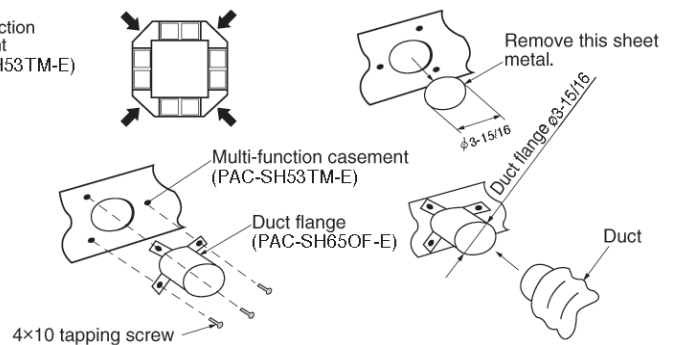
By mounting the optional multi-function casement (PAC-SH53TM-E) to the indoor unit main body, and mounting the optional duct flange (PAC-SH65OF-E) onto it further, fresh exterior air intake can be accomplished. (The mounting of the multi-function casement increases the height of the ceiling plenum by 5-5/16(135mm).)



Direct exterior air intake into the main body is also possible.

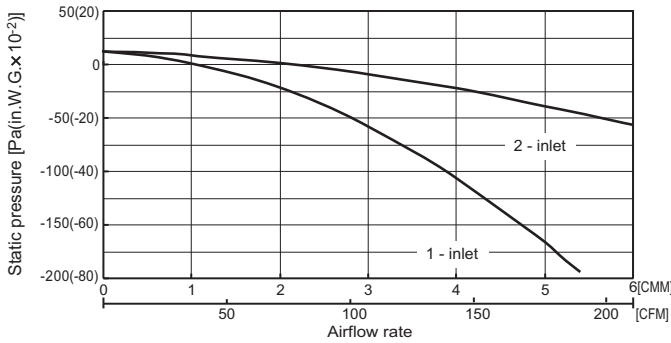
Knockout hole for fresh air intake

Preparation of knockout hole

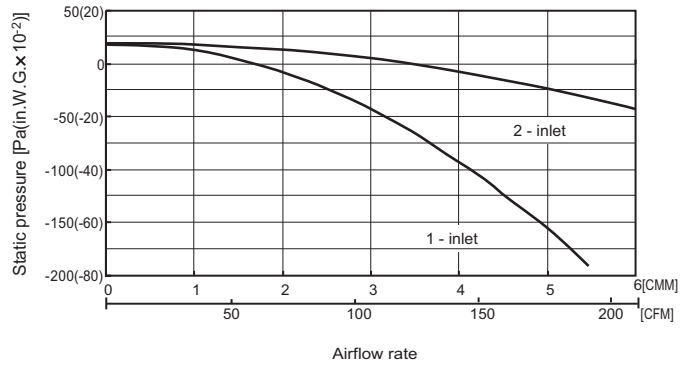


● PLFY-P08, 12, 15, 18NBMU-E2

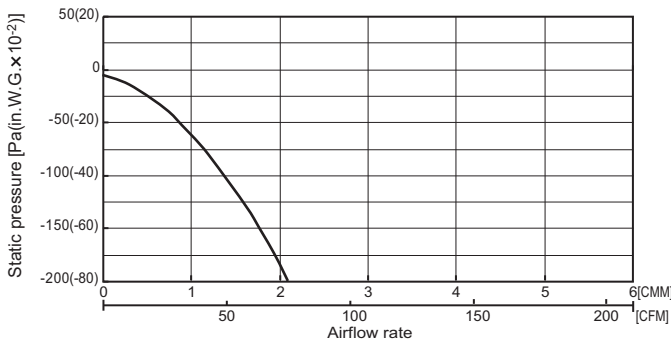
Multifunction casement + High efficiency filter



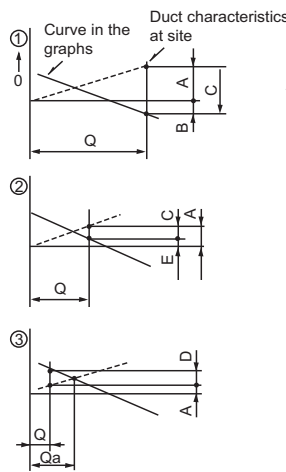
Multifunction casement + Standard filter



Taking air into the unit



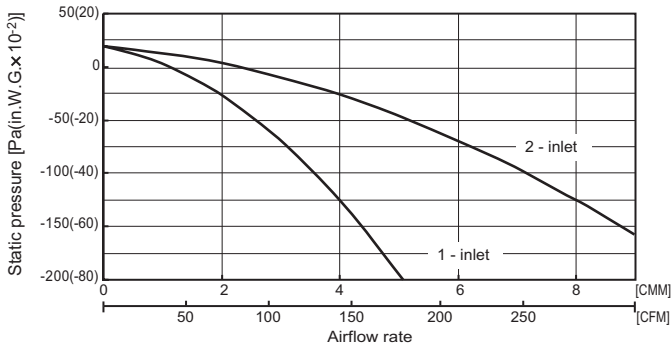
How to read curves



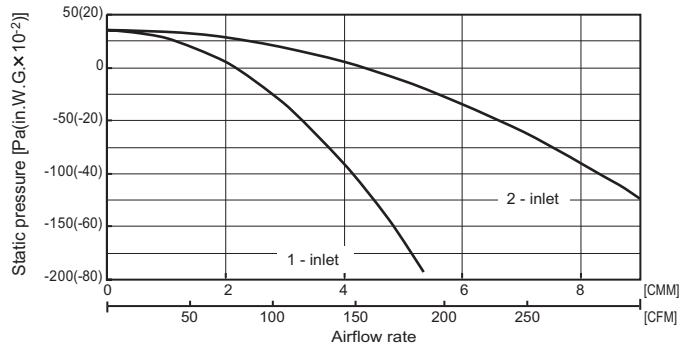
- Q...Designed amount of fresh air intake <CMM(CFM)>
- A...Static pressure loss of fresh air intake duct system with airflow amount Q <Pa(in.W.G. X10⁻²)>
- B...Forced static pressure at air conditioner inlet with air flow amount Q <Pa(in.W.G. X10⁻²)>
- C...Static pressure of booster fan with air flow amount Q <Pa(in.W.G. X10⁻²)>
- D...Static pressure loss increase amount of fresh air intake duct system for air flow amount Q <Pa(in.W.G. X10⁻²)>
- E...Static pressure of indoor unit with air flow amount Q <Pa(in.W.G. X10⁻²)>
- Qa...Estimated amount of fresh air intake without D <CMM(CFM)>

● PLFY-P24, 30, 36NBMU-E2

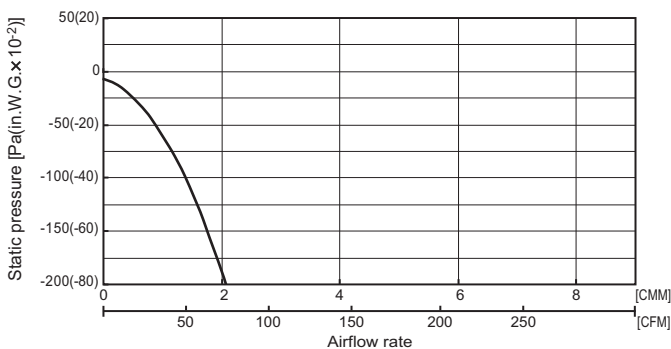
Multifunction casement + Standard filter



Multifunction casement + High efficiency filter



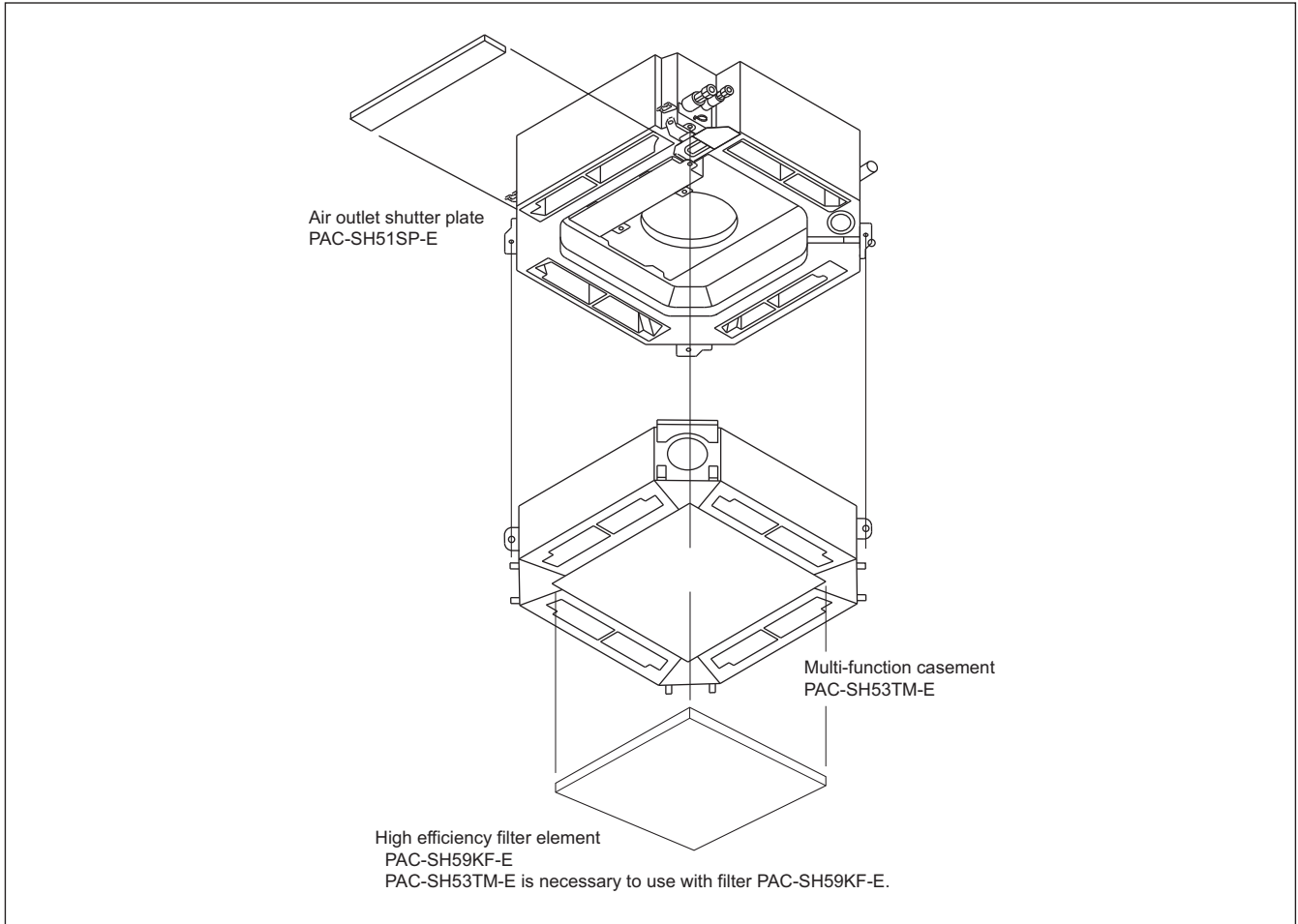
Taking air into the unit



8-1. Optional parts line up for the Indoor unit

	Air outlet shutter plate	Multi-function casement	High efficiency filter element
PLFY-P-NBMU-E2	PAC-SH51SP-E	PAC-SH53TM-E	PAC-SH59KF-E
	i-see sensor corner panel	Wireless signal receiver	Flange for fresh air intake
PLFY-P-NBMU-E2	PAC-SA1ME-E	PAC-SA9FA-E	PAC-SH65OF-E
	External heater adapter		
PLFY-P-NBMU-E2	PAC-YU25HT		

PLFY-P-NBMU-E2



PLFY-NQMUNBMU

8-2. 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.

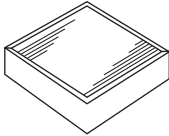
8-3. High efficiency filter element

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.

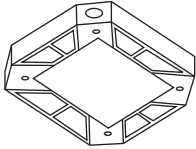


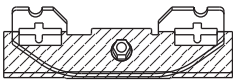
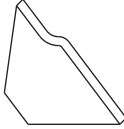
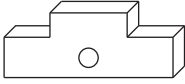
8-4. Multi-function casement

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.

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8-5. 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	① i-see sensor corner panel	② Plastic fastener	
Quantity	1	2	
Shape			

Detailed installation information should be referred to its Installation Manual.

8-6. Wireless signal receiver

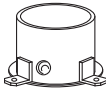


Using the wireless signal receiver to use wireless remote controller.
 The corner panel(the other side of refrigerant piping) is changed for the wireless signal receiver.

Item	① Wireless signal receiver	
Quantity	1	
Shape		

Detailed installation information should be referred to its Installation Manual.

8-7. Flange for fresh air intake

Using the flange for fresh air intake to connect to $\phi 100$ ($\phi 3-15/16$ inch) duct.
 The flange for fresh air intake is installed in the Multi-function casement(PAC-SH53TM-E) or indoor unit.

Item	① Duct flange	② Insulator	③ Screw	
Quantity	1	1	3	
Shape			 M4x10	

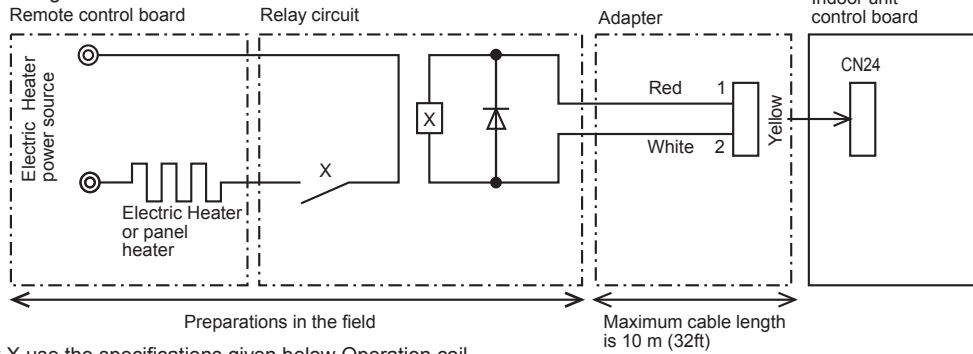
Detailed installation information should be referred to its Installation Manual.

8-8. 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.)

(1) Basic wiring



Outdoor unit control board

- PUHY, PURY-P-TGMU type Dip switch SW5-2 "ON/OFF"
- PUHY, PURY-P-THMU/YHMU/TJMU/YJMU type Dip switch SW5-10 "ON/OFF"
- PUHY, PURY-P-TKMU/YKMU, PUHY, PURY-P-TLMU/YLMU, PURY-HP-TKMU/YKMU type Dip switch SW4: 932 "ON/OFF"
- PUMY series Dip switch SW4-4 "ON/OFF"

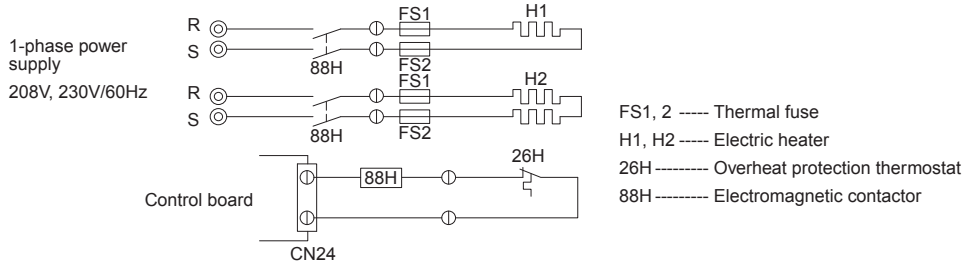
For relay X use the specifications given below Operation coil
 Rated voltage : 12VDC
 Power consumption : 1W or less

* Use the diode that is recommended by the relay manufacturer at both ends of the relay coil.

The length of the electrical wiring for the PAC-YU25HT is 2 meters (6-1/2 ft).
 To extend this length, use sheathed 2-core cable.

Control cable type : CVV, CVS, CPEV or equivalent.
 Cable size : 0.5 mm² ~ 1.25 mm² (16 to 22 AWG)
 Don't extend the cable more than 10 meters (32ft).

(2) Recommended circuit



- FS1, 2 ----- Thermal fuse
- H1, H2 ----- Electric heater
- 26H ----- Overheat protection thermostat
- 88H ----- Electromagnetic contactor

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.

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