

PMFY-P-NBMU-E

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1. SPECIFICATIONS

U11 2nd

Model			PMFY-P06NBMU-E	PMFY-P08NBMU-E	PMFY-P12NBMU-E	PMFY-P15NBMU-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	0.04	0.04	0.04	0.05
	Current input	A	0.20	0.20	0.21	0.26
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	0.04	0.04	0.04	0.05
	Current input	A	0.20	0.20	0.21	0.26
External finish			-			
External dimension H x W x D		in.	9-1/16 x 31-31/32 x 15-9/16	9-1/16 x 31-31/32 x 15-9/16	9-1/16 x 31-31/32 x 15-9/16	9-1/16 x 31-31/32 x 15-9/16
		mm	230 x 812 x 395	230 x 812 x 395	230 x 812 x 395	230 x 812 x 395
Net weight		lbs (kg)	31 (14)	31 (14)	31 (14)	31 (14)
Decoration panel	Model		PMP-16BMU	PMP-16BMU	PMP-16BMU	PMP-16BMU
	External finish		0.98Y 8.99/0.63			
	Dimension	in.	1-3/16 x 39-3/8 x 18-17/32	1-3/16 x 39-3/8 x 18-17/32	1-3/16 x 39-3/8 x 18-17/32	1-3/16 x 39-3/8 x 18-17/32
	H x W x D	mm	30 x 1,000 x 470	30 x 1,000 x 470	30 x 1,000 x 470	30 x 1,000 x 470
	Net Weight	lbs (kg)	7(3)	7(3)	7(3)	7(3)
Heat exchanger			Cross fin			
FAN	Type x Quantity		Line flow fan x 1	Line flow fan x 1	Line flow fan x 1	Line flow 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 Brush-less Motor			
	Motor output	kW	0.028	0.028	0.028	0.028
	Driving mechanism		Direct-driven			
	Airflow rate (Low-Mid1-Mid2-High)	cfm	230-254-283-307	258-283-304-328	258-283-304-328	272-307-343-378
		m3 / min	6.5-7.2-8.0-8.7	7.3-8.0-8.6-9.3	7.3-8.0-8.6-9.3	7.7-8.7-9.7-10.7
L / s		108-120-133-145	122-133-143-155	122-133-143-155	128-145-162-178	
Sound pressure level (Low-Mid1-Mid2-High) (measured in anechoic room)	dB <A>		27-30-33-35 (208-230V)	32-34-36-37 (208-230V)	32-34-36-37 (208-230V)	33-35-37-39 (208-230V)
	dB <A>		-	-	-	-
	dB <A>		-	-	-	-
Insulation material			PS foam, Polyethylene foam			
Air filter			PP honeycomb			
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 (26)	O.D. 1 (26)	O.D. 1 (26)	O.D. 1 (26)
Drawing	External		BH01C848			
	Wiring		BH79C630			
	Refrigerant cycle		-			
Standard attachment	Document		Installation Manual,Installation Book			
	Accessory					
Optional parts	External heater adapter		PAC-YU25HT	PAC-YU25HT	PAC-YU25HT	PAC-YU25HT
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 cfm = m3/min x 35.31 lbs = kg / 0.4536
		Outdoor : 95degF D.B. (35degC D.B.)	47degF D.B. / 43degF W.B. (8.3degC D.B. / 6.1degC W.B.)	
		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_PMFY-P06-15NBMU-E

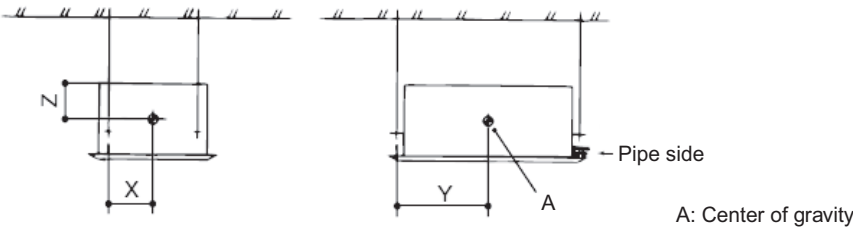
U11 2nd

Drw. : IU-BH01C848
Unit : in(mm)



PMFY-P06,08,12,15NBMU-E

Ref.: PMFY_NBMU_COG_USDB_ALL



(mm)[in]

Model name	X	Y	Z
PMFY-P06NBMU-E	165 [6-1/2]	390 [15-3/8]	130 [5-1/8]
PMFY-P08NBMU-E	165 [6-1/2]	390 [15-3/8]	130 [5-1/8]
PMFY-P12NBMU-E	165 [6-1/2]	390 [15-3/8]	130 [5-1/8]
PMFY-P15NBMU-E	165 [6-1/2]	390 [15-3/8]	130 [5-1/8]

PMFY-P06,08,12,15NBMU-E

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

Legend		Symbol	Name	Symbol	Name
I.B	Indoor controller board	X1	Aux relay	TH21	Thermistor
	Connector	T	Transformer	TH22	
	CN25	Humidifier	LED1	Power supply (LB)	
	CN27	Damper	LED2	Power supply (LB)	
	CN32	Remote switch	MF	Centrally control	
O.B	Outdoor controller board	CN51	Fan motor (with inner thermo)	TH23	
	Remote indication	MV	Vane motor	A.B	Address board
	Capacity code	DP	Drain pump	SW1	Switch
	Mode selection	DS	Drain sensor	SW5	Voltage selection
	Model selection	LEV	Linear expansion valve	SW11	Address setting 1st digit
ZNR	Varistor	TB2	Terminal block	SW12	Address setting 2nd digit
	FUSE (6A / 250V)	TB5	Terminal block	SW14	Connection No.
		TB15	Terminal block		

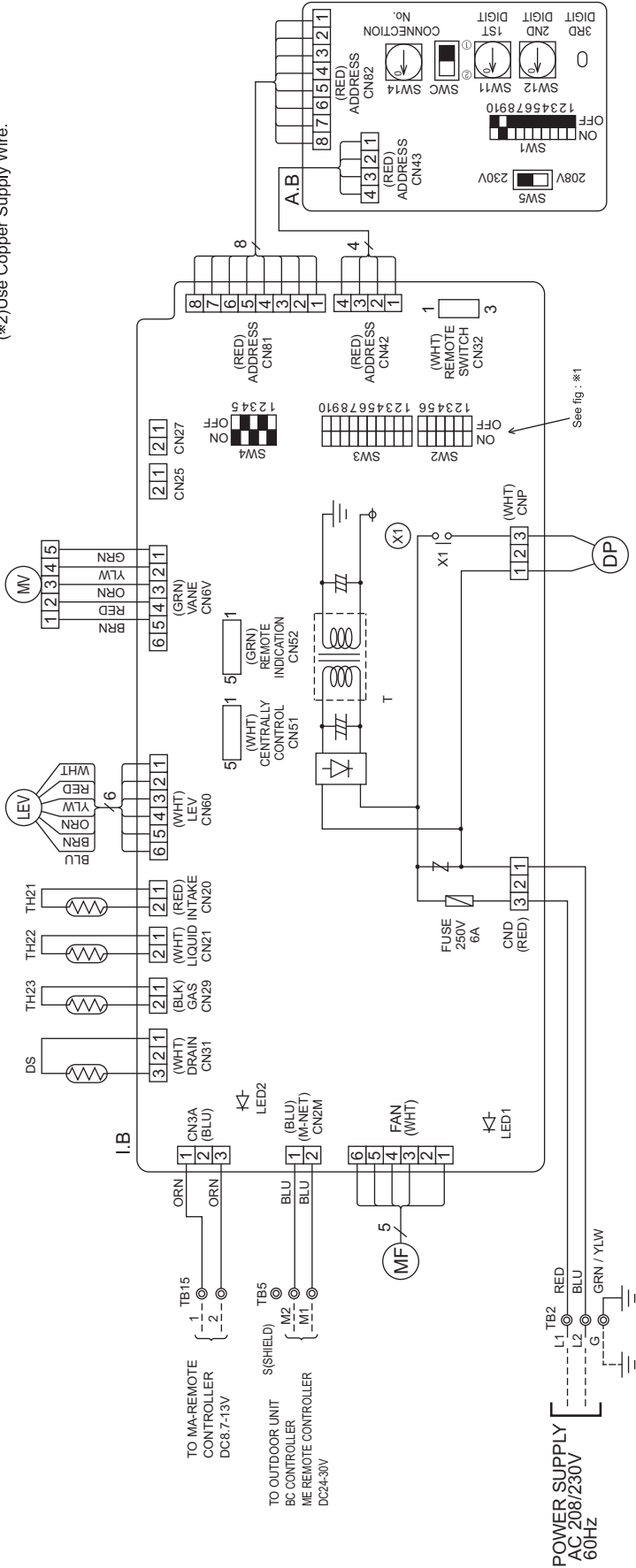
Note

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, SW3 dip switches differs in the capacity for the detail, refer to the fig. : ※1.
7. Please set the switch SW5 according to the power supply voltage.

Models	SW2	SW3
P06	ON OFF	ON OFF
P08	ON OFF	ON OFF
P12	ON OFF	ON OFF
P15	ON OFF	ON OFF

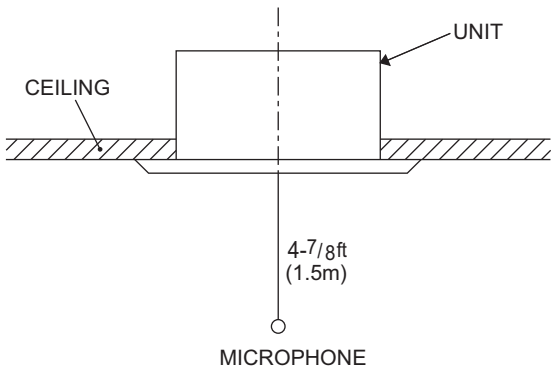
<fig. : ※1>

(※2) Use Copper Supply Wire.



5-1. Sound levels

Ceiling cassette series



Operating sound levels
(Low-Medium2-Medium1-High) Unit : dB(A)

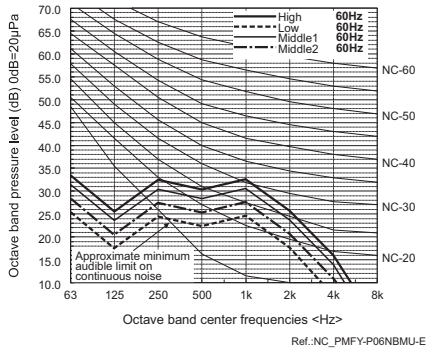
Model	Sound levels (A weighted)
PMFY-P06NBMU-E	27-30-33-35
PMFY-P08NBMU-E	32-34-36-37
PMFY-P12NBMU-E	32-34-36-37
PMFY-P15NBMU-E	33-35-37-39

Measurement location

5-2. NC curves

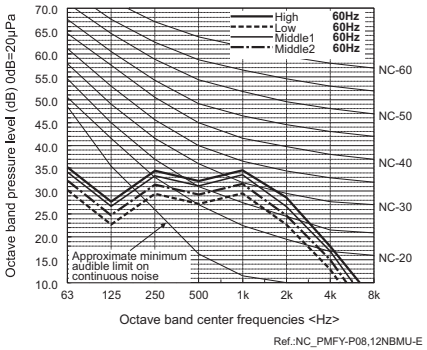
PMFY-P06NBMU-E

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



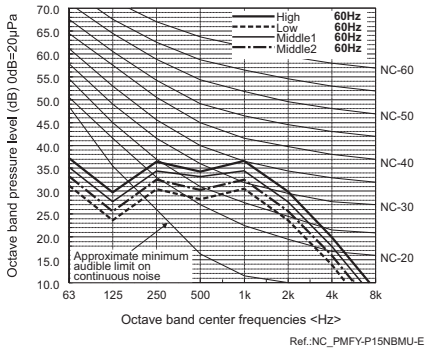
PMFY-P08,12NBMU-E

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



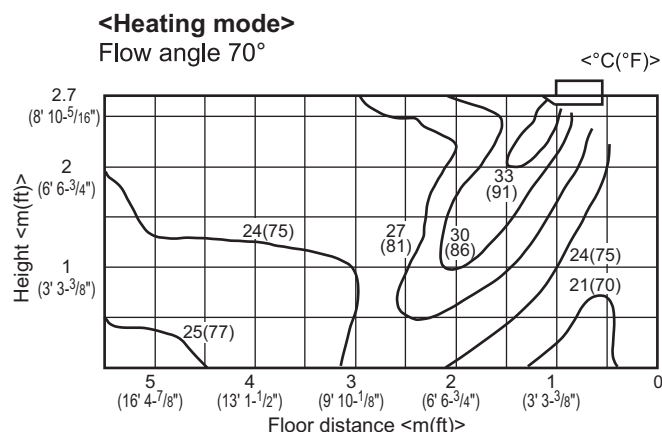
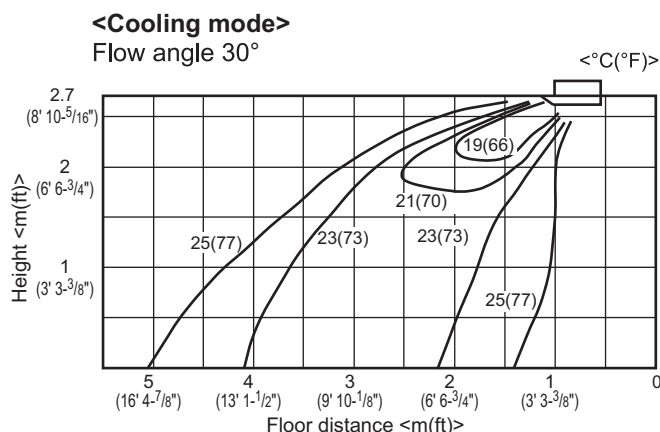
PMFY-P15NBMU-E

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



6-1. Temperature distributions

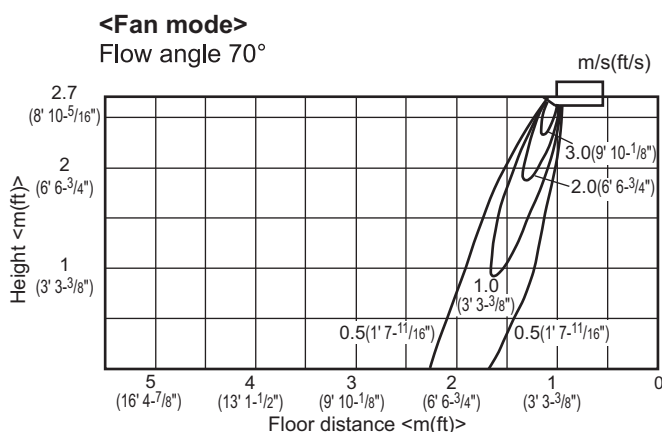
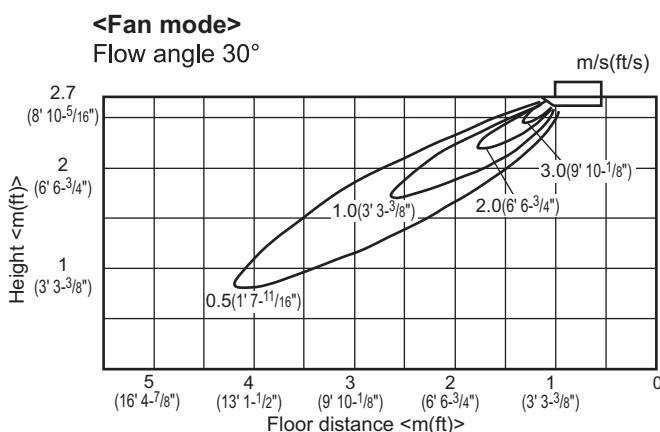
PMFY-P06-15NBMU-E



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.

6-2. Airflow distributions

PMFY-P06-15NBMU-E



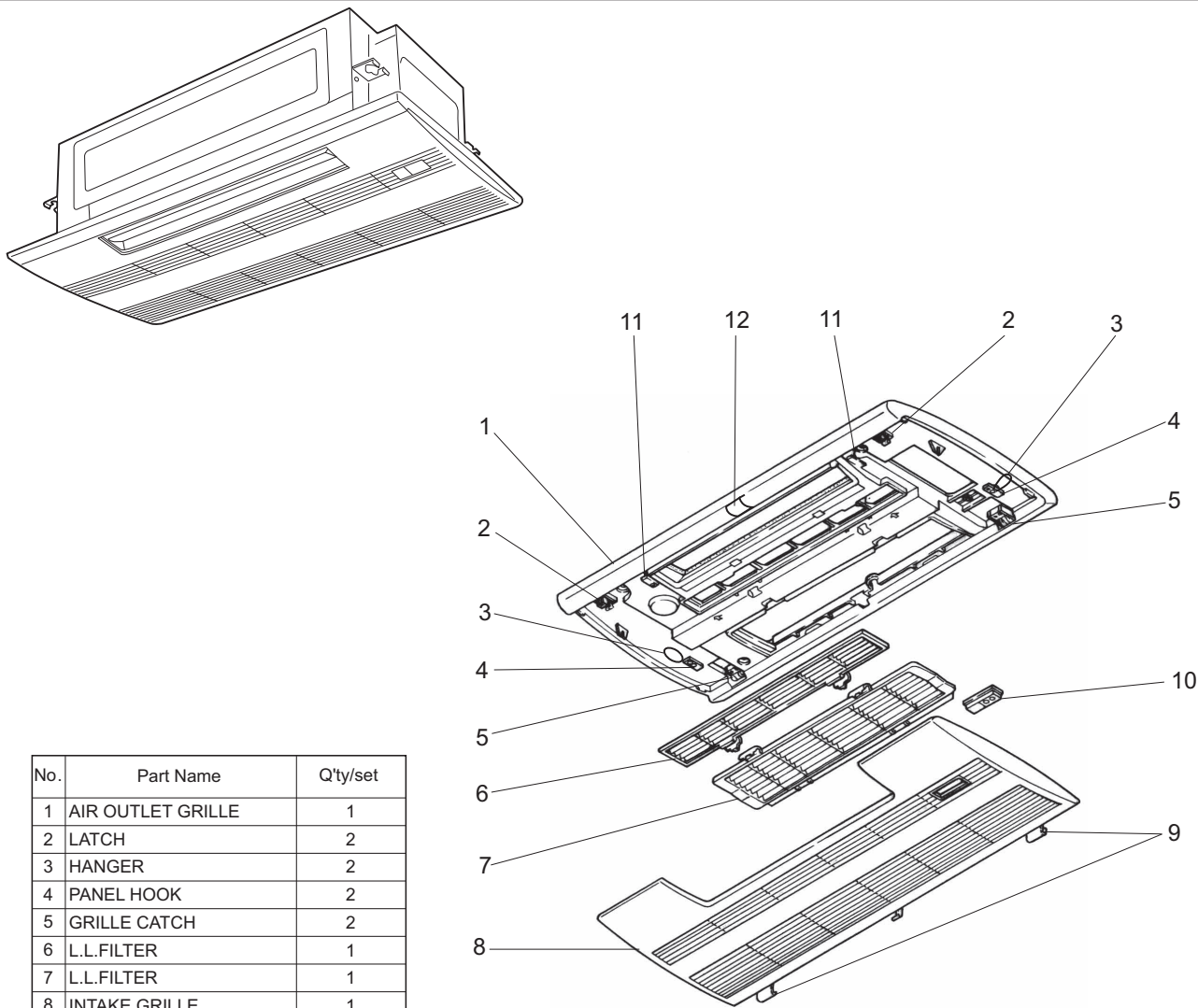
Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

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

	Decoration panel	External heater adapter
PMFY-P-NBMU-E	PMP-16BMU	PAC-YU25HT

7-2. Decoration panel

PMFY-P-NBMU-E should use decoration panel PMP-16BMU together.
Refer to the specifications for details.



No.	Part Name	Q'ty/set
1	AIR OUTLET GRILLE	1
2	LATCH	2
3	HANGER	2
4	PANEL HOOK	2
5	GRILLE CATCH	2
6	L.L.FILTER	1
7	L.L.FILTER	1
8	INTAKE GRILLE	1
9	GRILLE CATCH	2
10	RECEIVER COVER	1
11	MAGNET	2
12	SCREW CAP	1

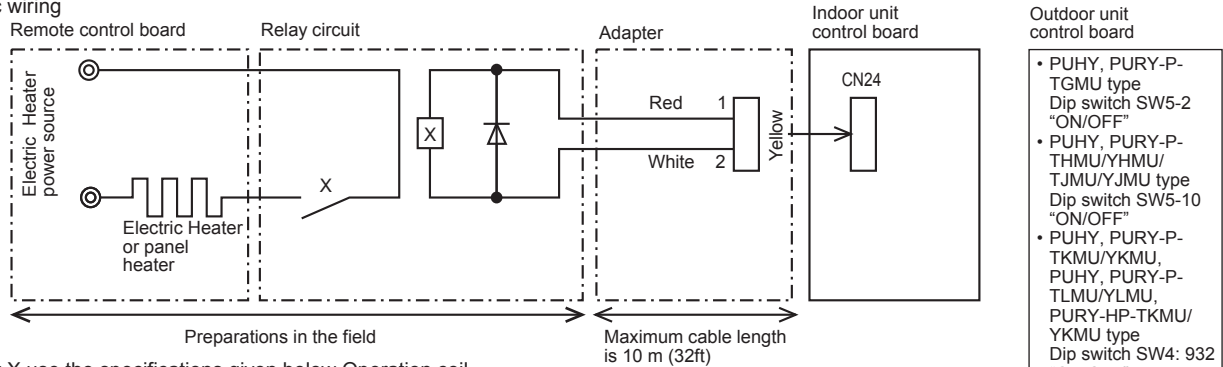
Detailed installation information should be referred to PMFY-P-NBMU-E's Technical and Service Manual.

7-3. 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



For relay X use the specifications given below

Operation coil
Rated voltage : 12VDC
Power consumption : 1W or less

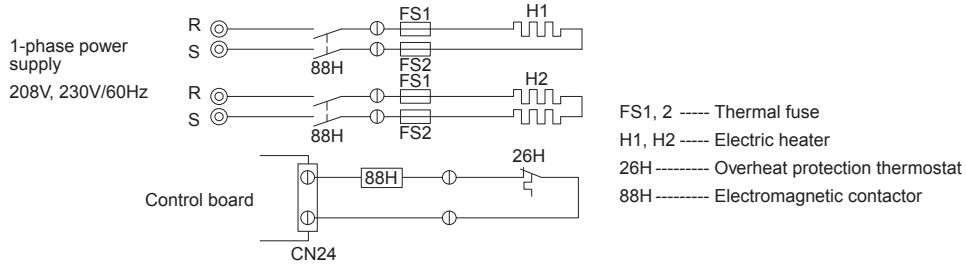
* Use the diode that is recommended by the relay manufacturer at both ends of the relay coil.

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



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.