PMFY-P-NBMU-ER5

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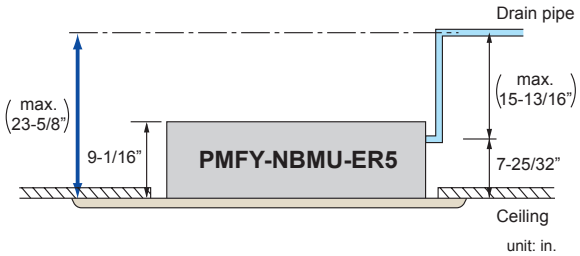
CEILING-RECESSED CASSETTE (ONE-WAY AIRFLOW)

■ **Ideal for small spaces**
The PMFY models are one-way ceiling-recessed cassette units perfect for shallow ceiling spaces.

■ **The PMFY unit moves air in one direction and can bring in fresh ventilation.**
It is designed especially for use in areas like hotel rooms that cannot support ductwork or lack sufficient space to allow for wall-mounted units.

Unit body size has been standardized for all models at 33-5/8" for easier installation. This profile is the smallest of all CITY MULTI™ ceiling models with a depth of only 9-1/16"-ideal for tight location.

■ **Embedded drain pump kit, having a 23-5/8" lift.**



unit: in.

Cassette ceiling		P06	P08	P12	P15	P18	P24	P27	P30	P36	P48	P54	P72	P96
		0.8HP	1.0HP	1.3HP	1.6HP	2.0HP	2.5HP	2.8HP	3.2HP	4.0HP	5.0HP	5.6HP	8.0HP	10.0HP
Nominal cooling cap.*1	Btu/h	6,000	8,000	12,000	15,000	18,000	24,000	27,000	30,000	36,000	48,000	54,000	72,000	96,000
Nominal heating cap.*2	Btu/h	6,700	9,000	13,500	17,000	20,000	27,000	30,000	34,000	40,000	54,000	60,000	80,000	108,000
PMFY-P-NBMU-ER5		●	●	●	●									

* Nominal conditions *1, *2 are referred to in the Specification sheet.

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1. SPECIFICATIONS

Model			PMFY-P06NBMU-ER5	PMFY-P08NBMU-ER5	PMFY-P12NBMU-ER5	PMFY-P15NBMU-ER5
Power source			1-phase 208-230 V 60Hz			
Cooling capacity *1 (Nominal)		Btu/h	6,000	8,000	12,000	15,000
		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 *2 (Nominal)		Btu/h	6,700	9,000	13,500	17,000
		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-16BMUW	PMP-16BMUW	PMP-16BMUW	PMP-16BMUW
	External finish		6.4Y 8.9/0.4			
	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 pressure	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 Brushless			
	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)
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,R22 CITY MULTI	R410A,R22 CITY MULTI
Diameter of refrigerant pipe (O.D.)	Liquid (R410A) (R22)	in. (mm)	1/4 (6.35) Flare -	1/4 (6.35) Flare -	1/4 (6.35) Flare 1/4 (6.35) Flare	1/4 (6.35) Flare 1/4 (6.35) Flare
	Gas (R410A) (R22)	in. (mm)	1/2 (12.7) Flare -	1/2 (12.7) Flare -	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)
Drain lift mechanism		in. (mm)	23-5/8 (600)	23-5/8 (600)	23-5/8 (600)	23-5/8 (600)
Drawing	External		BH01C848			
	Wiring		BH79C630			
Standard attachment	Document Accessory		Installation Manual,Installation Book			
Optional parts	External heater adapter		CN24RELAY-KIT-CM3	CN24RELAY-KIT-CM3	CN24RELAY-KIT-CM3	CN24RELAY-KIT-CM3
Remark	Ventilation Air: Providing sufficient ventilation air is an important part of every building design. ASHRAE standard 62 provides the minimum ventilation air requirements. Also check local codes.					
	Installation		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			

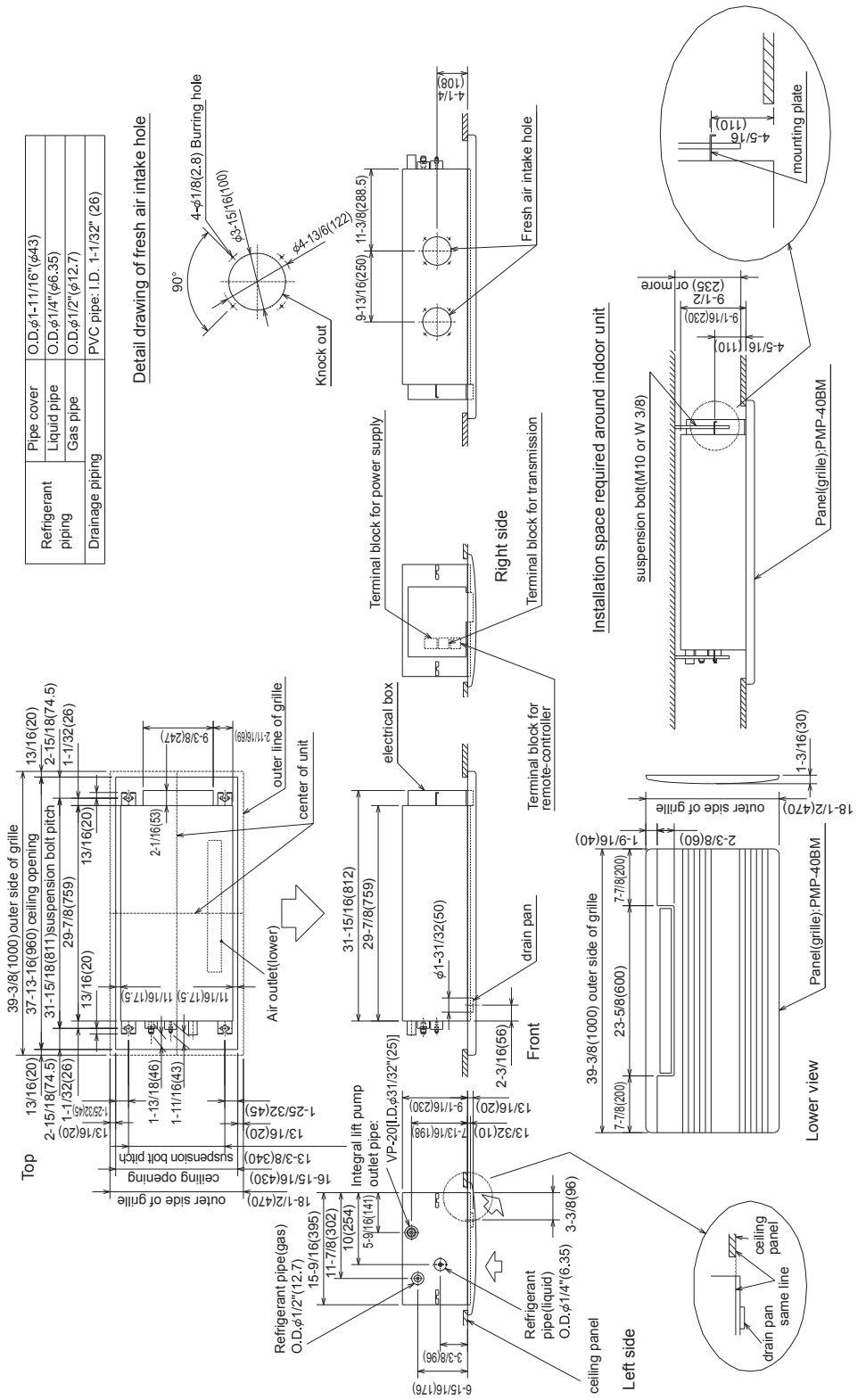
Note:	*1 Nominal cooling conditions	*2 Nominal heating conditions	Unit converter
Indoor:	80degF D.B. / 67degF W.B. (26.7degC D.B. / 19.4degC W.B.)	70degF D.B. (21.1degC D.B.)	kcal/h = kW x 860 BTU/h = kW x 3,412
Outdoor:	95degF D.B. (35degC D.B.)	47degF D.B. / 43degF W.B. (8.3degC D.B. / 6.1degC W.B.)	cfm = m3/min x 35.31 lbs = kg / 0.4536
Pipe length:	25 ft. (7.6 m)	25 ft. (7.6 m)	*Above specification data is subject to rounding variation.
Level difference:	0 ft. (0 m)	0 ft. (0 m)	
*Due to continuing improvement, above specification may be subject to change without notice.			

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2. EXTERNAL DIMENSIONS

PMFY-P06,08,12,15NBMU-ER5

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

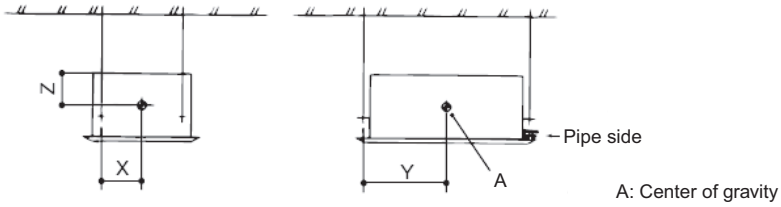


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3. CENTER OF GRAVITY

PMFY-P06,08,12,15NBMU-ER5

Ref.: PMFY_NBMU_COG_USDB_ALL



A: Center of gravity

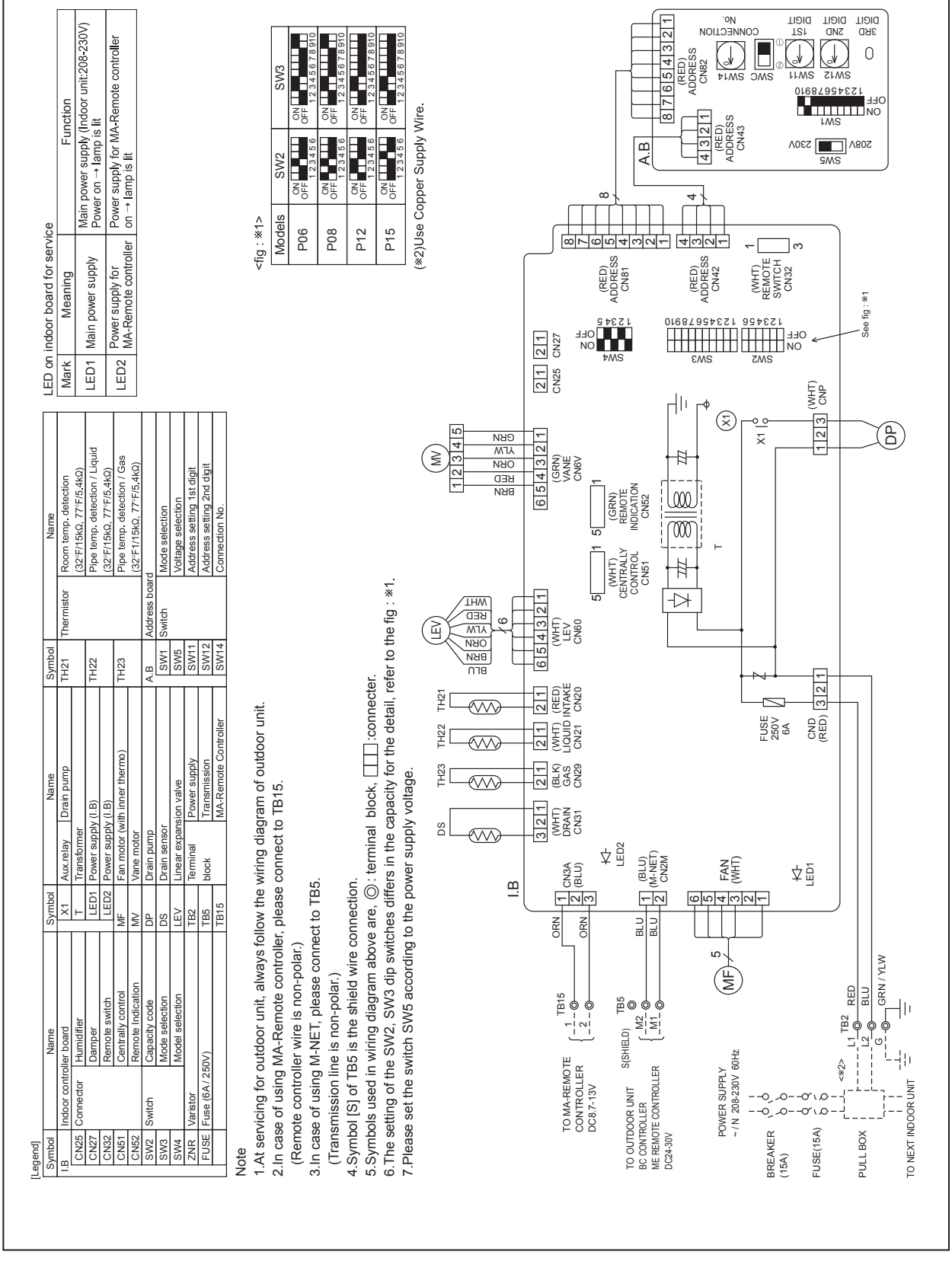
(mm)[in]

Model name	X	Y	Z
PMFY-P06NBMU-ER5	165 [6-1/2]	390 [15-3/8]	130 [5-1/8]
PMFY-P08NBMU-ER5	165 [6-1/2]	390 [15-3/8]	130 [5-1/8]
PMFY-P12NBMU-ER5	165 [6-1/2]	390 [15-3/8]	130 [5-1/8]
PMFY-P15NBMU-ER5	165 [6-1/2]	390 [15-3/8]	130 [5-1/8]

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PMFY-P06,08,12,15NBMU-ER5

Drw. : IU-BH79C630

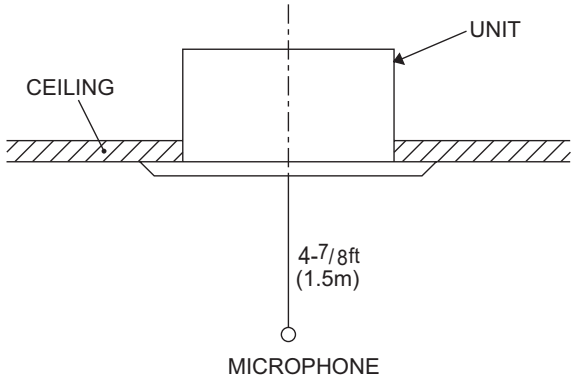


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5. SOUND PRESSURE LEVELS

5-1. Sound Pressure Levels

Ceiling cassette series



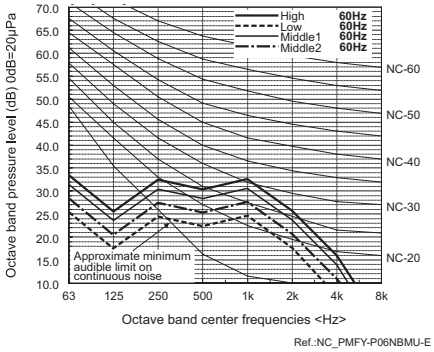
Operating sound pressure levels
(Low-Medium2-Medium1-High) Unit : dB(A)

Model	Sound levels (A weighted)
PMFY-P06NBMU-ER5	27-30-33-35
PMFY-P08NBMU-ER5	32-34-36-37
PMFY-P12NBMU-ER5	32-34-36-37
PMFY-P15NBMU-ER5	33-35-37-39

5-2. NC Curves

PMFY-P06NBMU-ER5

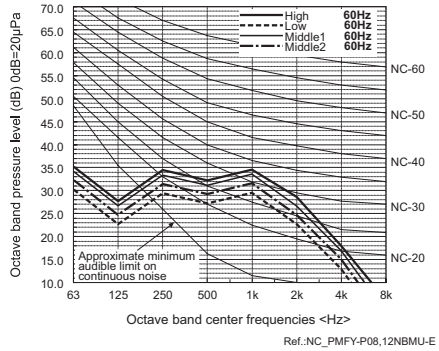
External Static Pressure: 0Pa [0.00 in.WG]
Power Source: 208-230V, 60Hz



Ref.:NC_PMFY-P06NBMU-E

PMFY-P08,12NBMU-ER5

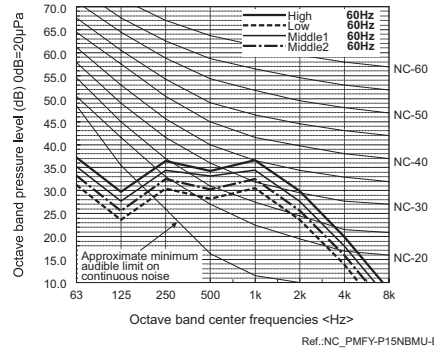
External Static Pressure: 0Pa [0.00 in.WG]
Power Source: 208-230V, 60Hz



Ref.:NC_PMFY-P08,12NBMU-E

PMFY-P15NBMU-ER5

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



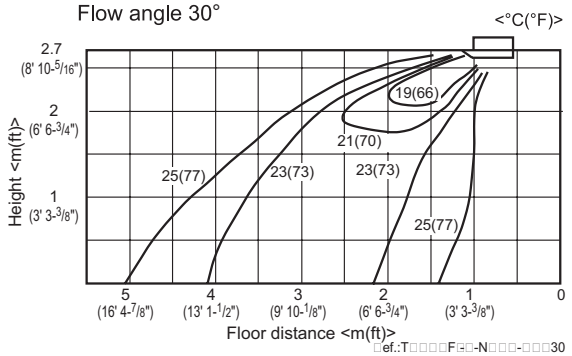
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6. TEMPERATURE/AIRFLOW DISTRIBUTIONS

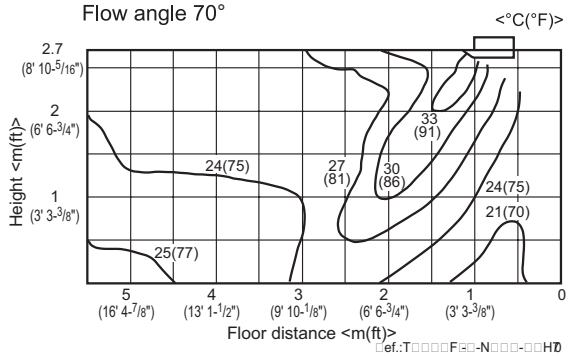
6-1. Temperature Distributions

<Cooling mode>
Flow angle 30°



□ef.:T□□□□F□□-N□□□-□□□30

<Heating mode>
Flow angle 70°

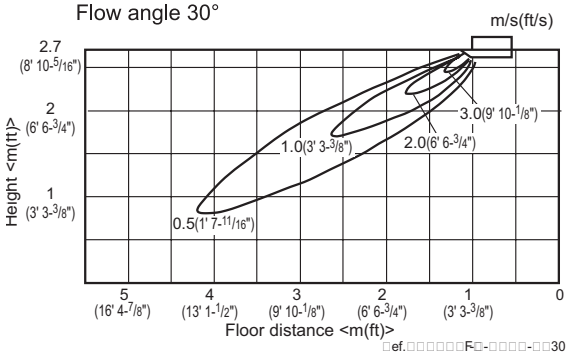


□ef.:T□□□□F□□-N□□□-□□H7□

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.

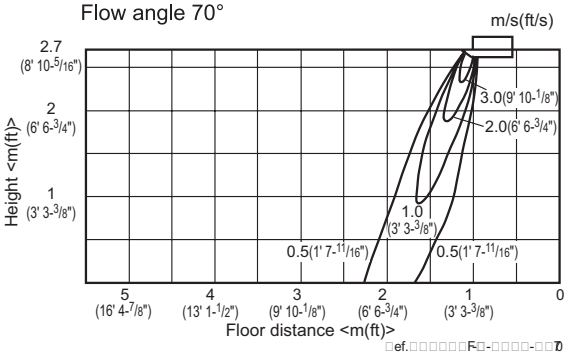
6-2. Airflow Distributions

<Fan mode>
Flow angle 30°



□ef.□□□□□□F□-□-□□□□-□□30

<Fan mode>
Flow angle 70°



□ef.□□□□□□F□-□-□□□□-□□70

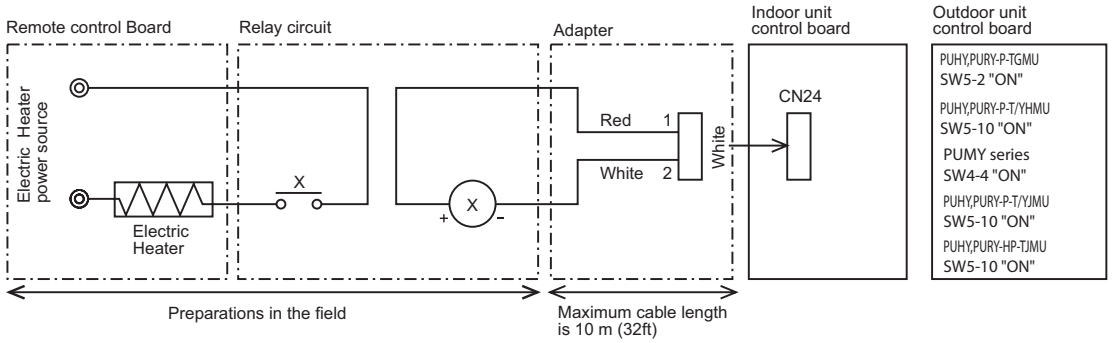
□ote □□hese fig□res sho□ t□□ical airflo□ distri□□tions in the conditions a□o□e. □n the act□al installation□ the□ may differ from these fig□res □nder the infl□ence of air tem□erat□re conditions□ ceiling height□ cooling/heating load□o□stacles□etc.

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7-1. External Heater Adapter CN24RELAY-KIT-CM3

External heater adaptor CN24RELAY-KIT-CM3 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.

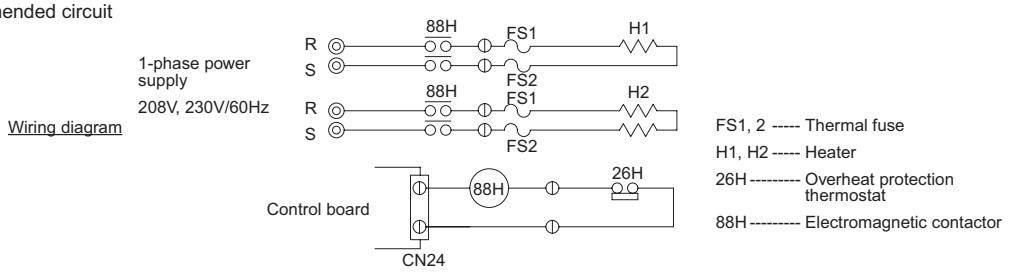
A basic connection method is shown as follows:(For details, refer to its Installation Manual.)

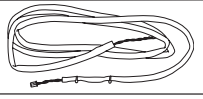
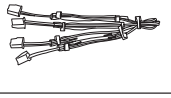


For relay X use the specifications given below Operation coil
- Rated voltage : 12VDC
- Power consumption : 0.9W or less

The length of the electrical wiring for the CN24RELAY-KIT-CM3 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 mm^2 ~ 1.25 mm^2 (16 to 22 AWG)
- Don't extend the cable more than 10 meters (32ft)

Recommended circuit



Item	① External output cable	② Fan speed setting cable with resistance	
Quantity	2	2	
Shape			

Refer to the Installation Manual for wiring and installation details.

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