

PKFY-P-NBMU-E2, PKFY-P-NHMU-E2, PKFY-P-NKMU-E2

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1. SPECIFICATIONS

U11 2nd

Model			PKFY-P06NBMU-E2	PKFY-P08NHMU-E2	PKFY-P12NHMU-E2	PKFY-P15NHMU-E2
Power source			1-phase 208/230V 60Hz	1-phase 208/230V 60Hz	1-phase 208/230V 60Hz	1-phase 208/230V 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	0.03	0.03	0.03	0.03
	Current input	A	0.15	0.30	0.30	0.30
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	0.03	0.03	0.03	0.03
	Current input	A	0.15	0.30	0.30	0.30
External finish			Plastic, MUNSELL (1.0Y 9.2/ 0.2)	Plastic, MUNSELL (1.0Y 9.2/ 0.2)	Plastic, MUNSELL (1.0Y 9.2/ 0.2)	Plastic, MUNSELL (1.0Y 9.2/ 0.2)
External dimension HxWxD		in.	11-5/8 x 32-1/8 x 8-7/8	11-5/8 x 35-3/8 x 9-13/16	11-5/8 x 35-3/8 x 9-13/16	11-5/8 x 35-3/8 x 9-13/16
		mm	295x815x225	295x898x249	295x898x249	295x898x249
Net weight		lbs(kg)	22 (10)	29(13)	29(13)	29(13)
Heat exchanger			Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)
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		1-phase induction motor	DC motor	DC motor	DC motor
	Motor output		kW	0.008	0.030	0.030
	Driving mechanism		Direct-driven by motor	Direct-drive	Direct-drive	Direct-drive
	Air flow rate (Low-Mid2-Mid1-High)	cfm	170-180-200-210	320-370-413	320-370-413	320-370-413
		m3 / min	4.9-5.2-5.6-5.9	9-10.5-11.7	9-10.5-11.7	9-10.5-11.7
(Low-Mid-High)		L/s	82-87-93-98	150-175-195	150-175-195	150-175-195
Sound pressure level (measured in anechoic room)			dB <A>	32-33-35-36	34-39-43	34-39-43
Insulation material			Polyethylene sheet	Polyethylene sheet	Polyethylene sheet	Polyethylene sheet
Air filter			PP honeycomb	PP honeycomb	PP honeycomb	PP honeycomb
Protection device			Fuse	Fuse	Fuse	Fuse
Refrigerant control device			LEV	LEV	LEV	LEV
Connectable outdoor unit			R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI
Diameter of refrigerant pipe	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)	I.D. 5/8(16)	I.D. 5/8(16)	I.D. 5/8(16)	I.D. 5/8(16)
Drawing	External		-	-	-	-
	Wiring		-	-	-	-
	Refrigerant cycle		-	-	-	-
Standard attachment	Document		Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book
	Accessory		-	-	-	-
Optional parts	External heater adapter		-	PAC-YU25HT	PAC-YU25HT	PAC-YU25HT
	Remote display adapter		PAC-SA88HA-EP	-	-	-
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.			

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. (21.0degC 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
			*The specification data is subject to rounding variation.		

1. SPECIFICATIONS

U11 2nd

Model			PKFY-P18NHMU-E2	PKFY-P24NKMU-E2	PKFY-P30NKMU-E2	
Power source			1-phase 208/230V 60Hz	1-phase 208/230V 60Hz	1-phase 208/230V 60Hz	
Cooling capacity (Nominal)	*1	BTU / h	18,000	24,000	30,000	
	*1	kW	5.3	7.0	8.8	
	Power input	kW	0.03	0.07	0.07	
	Current input	A	0.30	0.50	0.50	
Heating capacity (Nominal)	*2	BTU / h	20,000	27,000	34,000	
	*2	kW	5.9	7.9	10.0	
	Power input	kW	0.03	0.07	0.07	
	Current input	A	0.30	0.50	0.50	
External finish			Plastic, MUNSELL (1.0Y 9.2/ 0.2)	Plastic, MUNSELL (1.0Y 9.2/ 0.2)	Plastic, MUNSELL (1.0Y 9.2/ 0.2)	
External dimension HxWxD		in.	11-5/8 x 35-3/8 x 9-13/16	14-3/8 x 46-1/16 x 11-5/8	14-3/8 x 46-1/16 x 11-5/8	
		mm	295x898x249	365x1170x295	365x1170x295	
Net weight		lbs(kg)	29(13)	46(21)	46(21)	
Heat exchanger			Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	
FAN	Type x Quantity		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)	
		Pa	0	0	0	
		in.WG	0.000(230V)	0.000(230V)	0.000(230V)	
		Pa	0	0	0	
	Motor Type		DC motor	DC motor	DC motor	
	Motor output	kW	0.030	0.056	0.056	
	Driving mechanism		Direct-drive	Direct-drive	Direct-drive	
	Air flow rate (Low-Mid-High) (Low-High)	cfm	320-370-425	570-920	710-920	
		m3 / min	9-10.5-12	16-26	20-26	
L/s		150-175-200	267-433	333-433		
Sound pressure level (measured in anechoic room)		dB <A>	36-41-45	39-49	43-49	
Insulation material			Polyethylene sheet	Polyethylene sheet	Polyethylene sheet	
Air filter			PP honeycomb	PP honeycomb	PP honeycomb	
Protection device			Fuse	Fuse	Fuse	
Refrigerant control device			LEV	LEV	LEV	
Connectable outdoor unit			R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI	
Diameter of refrigerant pipe	Liquid (R410A)	in.(mm)	1/4(6.35) Flare	3/8(9.52) Flare	3/8(9.52) Flare	
	Gas (R410A)	in.(mm)	1/2(12.7) Flare	5/8(15.88) Flare	5/8(15.88) Flare	
Field drain pipe size		in.(mm)	I.D. 5/8(16)	I.D. 5/8(16)	I.D. 5/8(16)	
Drawing	External		-	-	-	
	Wiring		-	-	-	
	Refrigerant cycle		-	-	-	
Standard attachment	Document		Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book	
	Accessory		-	L-shaped connection pipe	L-shaped connection pipe	
Optional parts	External heater adapter		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.			

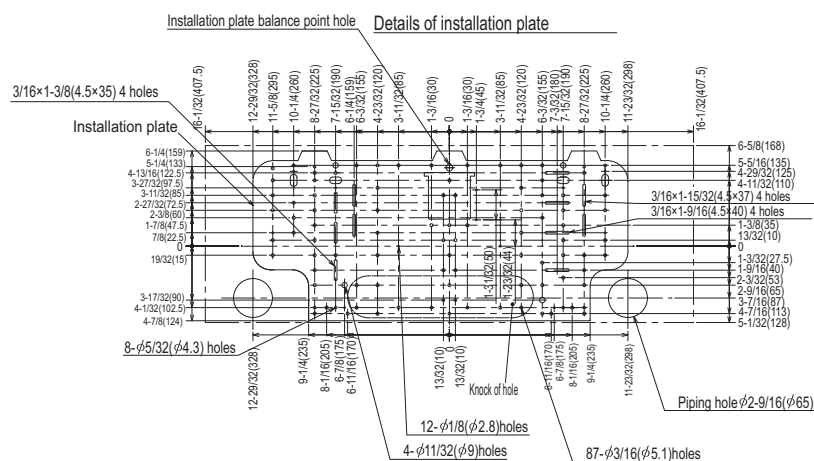
Note :		*1 Nominal cooling conditions	*2 Nominal heating conditions	Unit converter
Indoor :		80degF D.B. / 67degF W.B. (26.7degC D.B. / 19.4degC W.B.)	70degF D.B. (21.0degC D.B.)	kcal/h = kW x 860
Outdoor :		95degF D.B. (35degC D.B.)	47degF D.B. / 43degF W.B. (8.3degC D.B. / 6.1degC W.B.)	BTU/h = kW 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
				*The specification data is subject to rounding variation.

U11 2nd

Unit : in(mm)

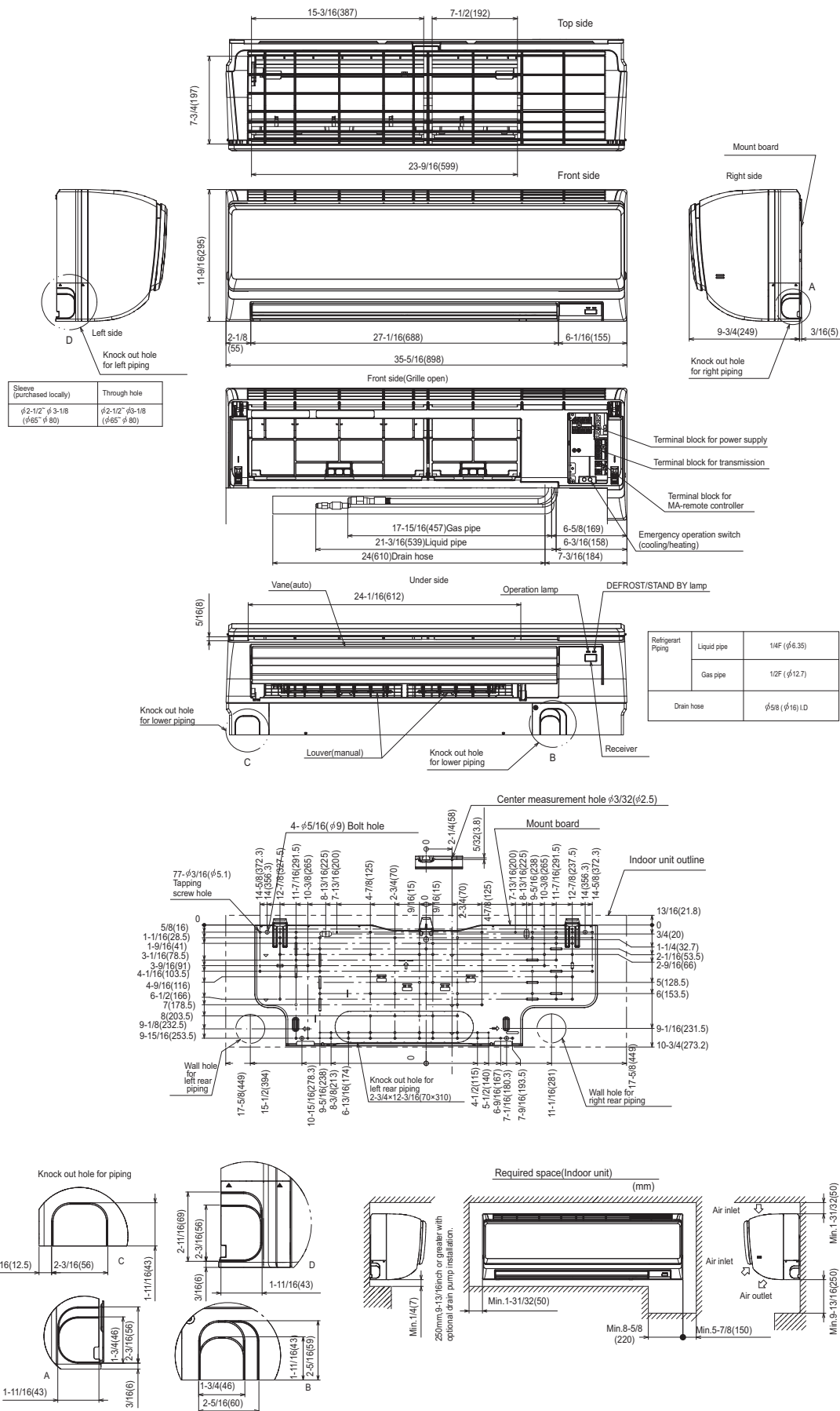


Refrigerant piping	Liquid pipe	1/4F(φ 6.35)
	Gas pipe	1/2F(φ 12.7)
Drain pipe		φ 5/8(φ 16) I.D



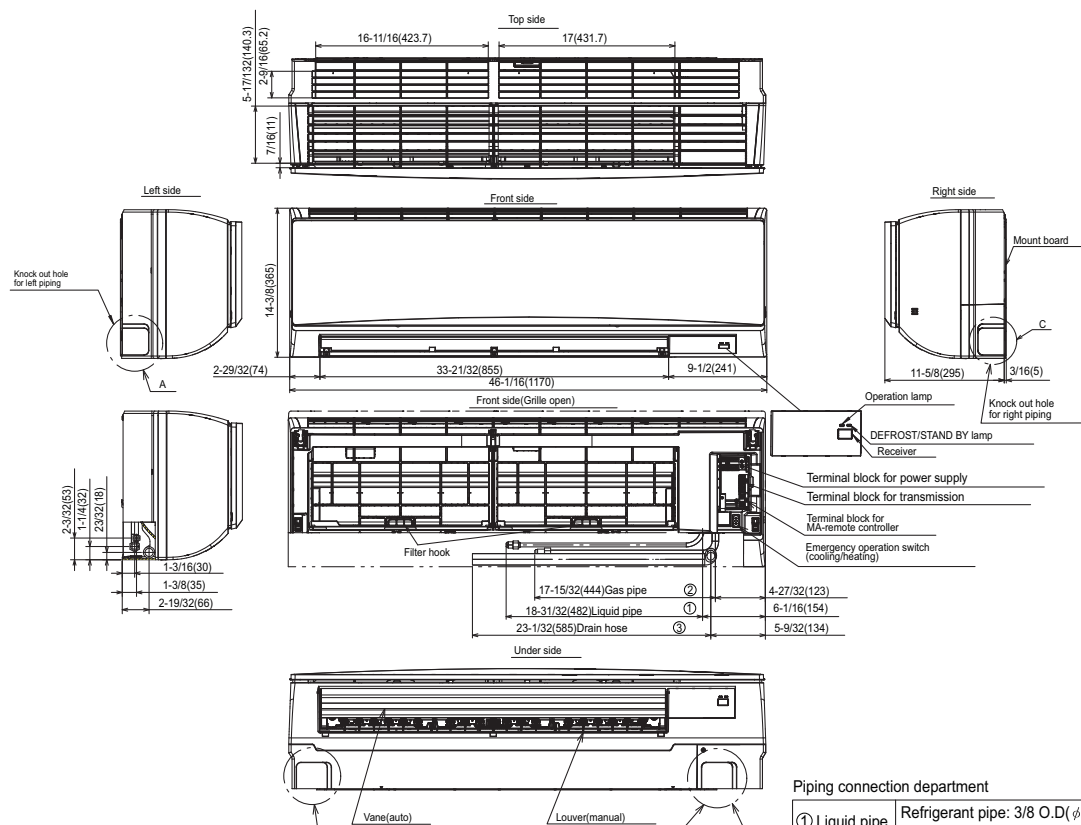
PKFY-P08, 12, 15, 18NHMU-E2

Unit : in(mm)



PKFY-P24, 30NKMU-E2

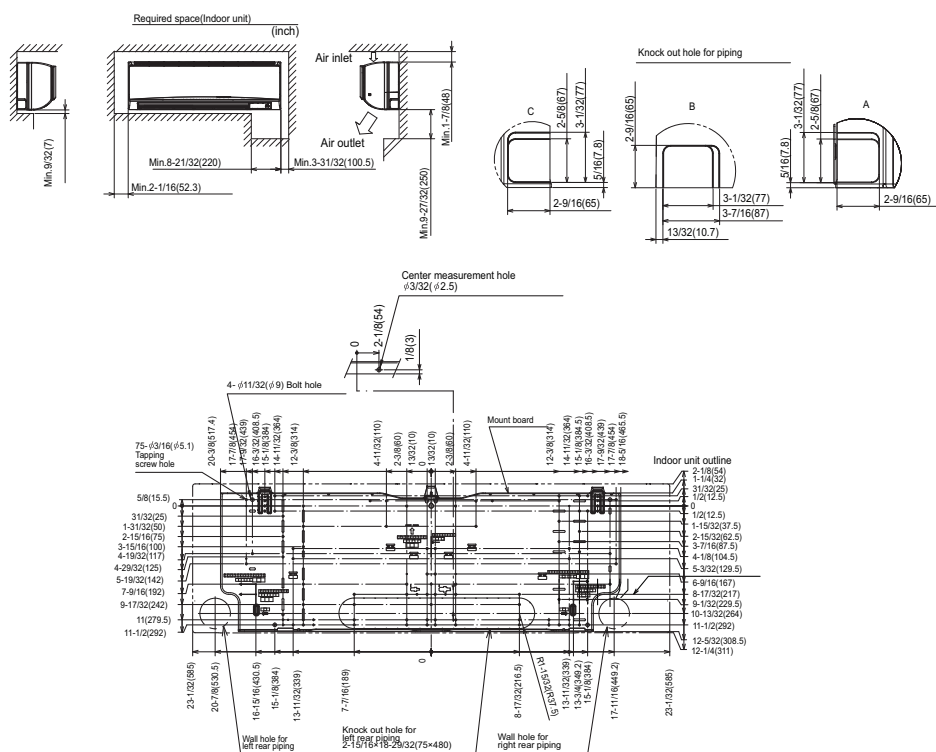
Unit : in(mm)



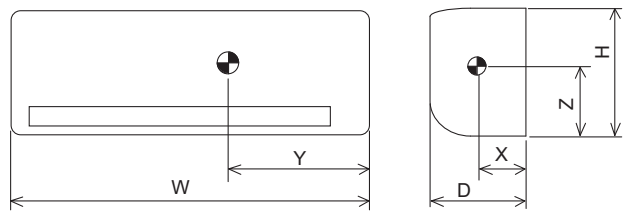
Sleeve (purchased locally)	Through hole
φ2-15/16 (φ75)	φ2-15/16~φ3-5/32 (φ75~φ80)

Piping connection department

① Liquid pipe	Refrigerant pipe: 3/8 O.D.(φ9.52) Flared connection: 3/8F
② Gas pipe	Refrigerant pipe: 5/8 O.D.(φ15.88) Flared connection: 5/8F
③ Drain hose	5/8(φ16) I.D



PKFY-P-NBMU-E2, NHMU-E2, NKMU-E2

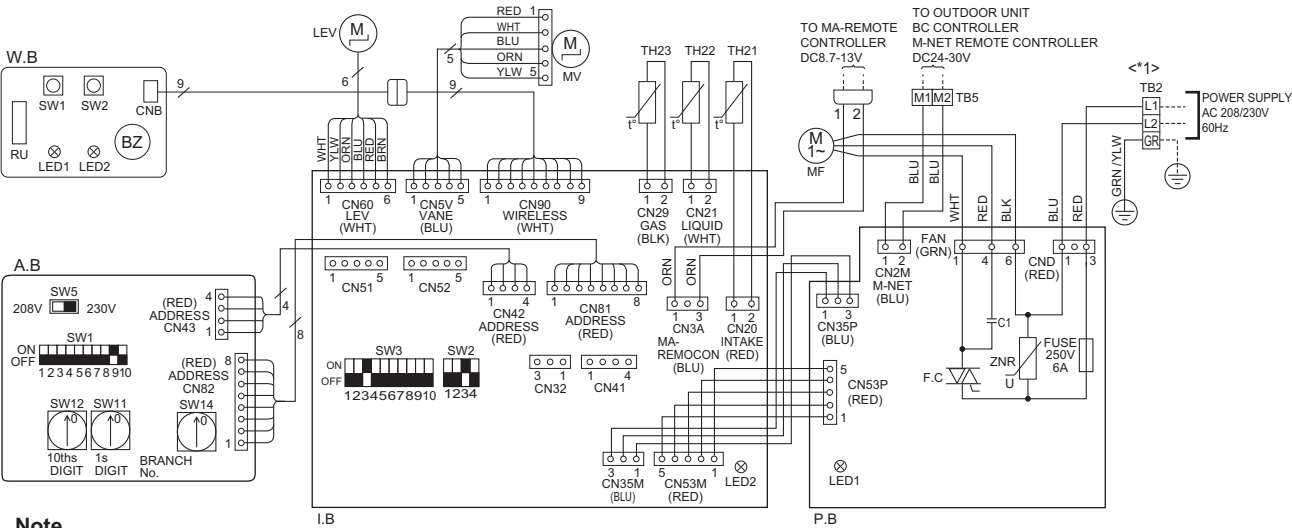


Model	in(mm)					
	W	D	H	X	Y	Z
PKFY-P06NBMU-E2	32-1/8 (815)	8-7/8 (225)	11-5/8 (295)	4-3/4 (120)	11-13/16 (300)	5-15/16 (150)
PKFY-P08NHMU-E2	35-3/8 (898)	9-13/16 (249)	11-5/8 (295)	4-3/4 (120)	15-3/8 (390)	6-5/16 (160)
PKFY-P12NHMU-E2	35-3/8 (898)	9-13/16 (249)	11-5/8 (295)	4-3/4 (120)	15-3/8 (390)	6-5/16 (160)
PKFY-P15NHMU-E2	35-3/8 (898)	9-13/16 (249)	11-5/8 (295)	4-3/4 (120)	15-3/8 (390)	6-5/16 (160)
PKFY-P18NHMU-E2	35-3/8 (898)	9-13/16 (249)	11-5/8 (295)	4-3/4 (120)	15-3/8 (390)	6-5/16 (160)
PKFY-P24NKMU-E2	46-1/8 (1170)	11-5/8 (295)	14-3/8 (365)	7-1/2 (190)	18-1/8 (460)	7-1/2 (190)
PKFY-P30NKMU-E2	46-1/8 (1170)	11-5/8 (295)	14-3/8 (365)	7-1/2 (190)	18-1/8 (460)	7-1/2 (190)

PKFY-P06NBMU-E2

Legend

Symbol	Name	Symbol	Name	Symbol	Name
I.B	Indoor controller board	MV	Vane motor	SW5	Switch
CN32	Connector	LEV	Linear expansion valve	SW11	Address setting 1s digit
CN51		TB2	Terminal block	SW12	Address setting 10ths digit
CN52		TB5	Transmission	SW14	Branch No.
SW2	Switch	TH21	Thermistor	W.B	Wireless remote controller board
SW3				RU	Receiving unit
P.B	Indoor power board	TH22		BZ	Buzzer
ZNR	Varistor			LED1	LED(Operation indicator:Green)
FUSE	Fuse (6A 250V)	TH23		LED2	LED(Preparation for heating:Orange)
F.C	Fan phase control			SW1	Emergency operation (Heat)
C1	Capacitor (Fan motor)	A.B	Address board	SW2	Emergency operation (Cool)
MF	Fan motor	SW1	Switch		



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 MA-remote controller cable in an accessory to the connector 1 2 (Remote controller wire is non-polar.)
- 3.In case of using M-NET,please connect to TB5 (Transmission line is non-polar.)
- 4.Symbols used in wiring diagram above are, [] : terminal block, () : connector
- 5.Please set the switch SW5 according to the power supply voltage.
Set SW5 to 230V side when the power supply is 230 volts.
When the power supply is 208 volts, set SW5 to 208V side.

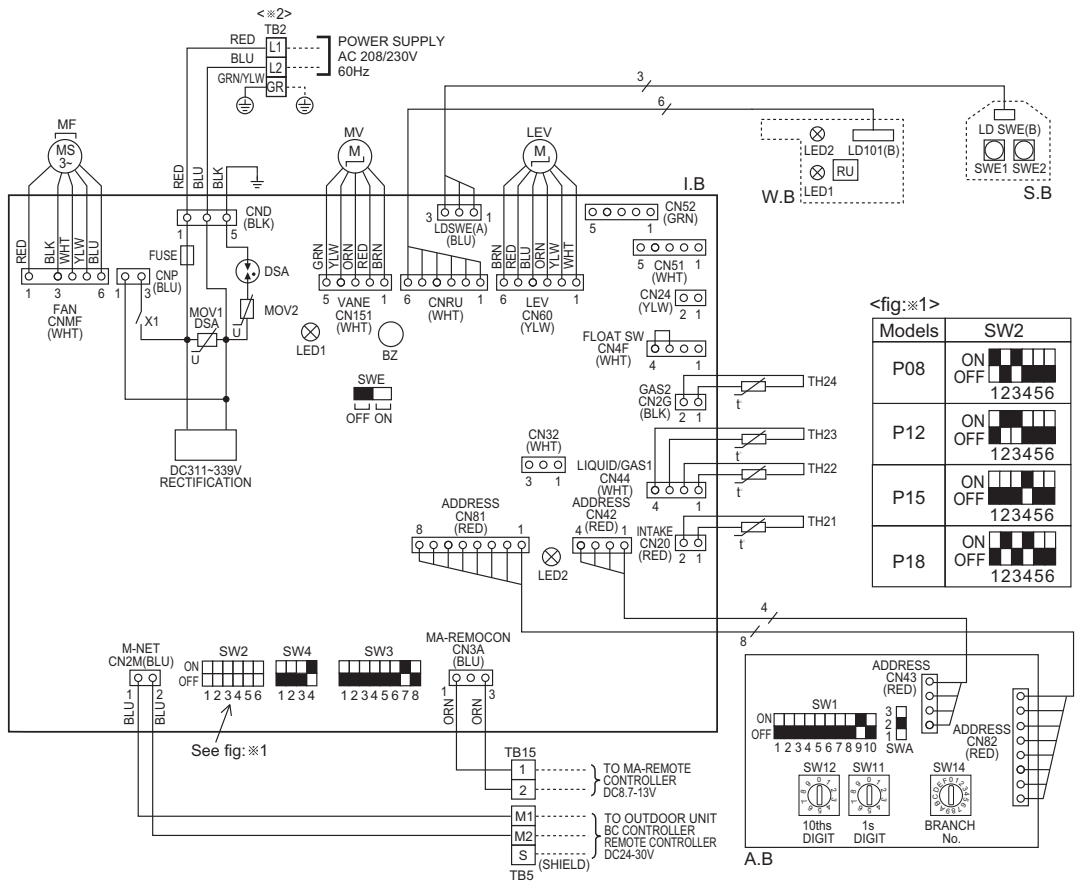
LED on indoor board for service

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

<*1>Use copper supply wires.

PKFY-P08,12,15,18NHMU-E2

SYMBOL	NAME	SYMBOL	NAME
I.B	INDOOR CONTROLLER BOARD	TH21	THERMISTOR ROOM TEMP. DETECTION (32°F/15kΩ, 77°F/5.4kΩ)
CN24	CONNECTOR EXTERNAL HEATER	TH22	PIPE TEMP. DETECTION / LIQUID (32°F/15kΩ, 77°F/5.4kΩ)
CN32	REMOTE SWITCH	TH23	PIPE TEMP. DETECTION / GAS1 (32°F/15kΩ, 77°F/5.4kΩ)
CN51	CENTRALLY CONTROL	TH24	PIPE TEMP. DETECTION / GAS2 (32°F/15kΩ, 77°F/5.4kΩ)
CN52	REMOTE INDICATION	A.B	ADDRESS BOARD
BZ	BUZZER	SWA	SWITCH FAN SPEED SELECTOR
DSA	SURGE ABSORBER	SW1	MODE SELECTION
FUSE	FUSE (T3.15AL 250V)	SW11	ADDRESS SETTING 1s DIGIT
LED1	POWER SUPPLY (I.B)	SW12	ADDRESS SETTING 10ths DIGIT
LED2	POWER SUPPLY (I.B)	SW14	BRANCH No.
SW2	SWITCH CAPACITY CODE	S.B	SWITCH BOARD
SW3	MODE SELECTION	SWE1	EMERGENCY OPERATION(HEAT)
SW4	MODEL SELECTION	SWE2	EMERGENCY OPERATION(COOL)
SWE	DRAIN PUMP (TEST MODE)	W.B	PCB FOR WIRELESS REMOTE CONTROLLER
X1	AUX.RELAY DRAIN PUMP (OPTION)	LED1	LED(OPERATION INDICATOR:GREEN)
MOV 01.02	VARISTOR	LED2	LED(OPERATION FOR HEATING -ORANGE)
LEV	LINEAR EXPANSION VALVE	RU	RECEIVING UNIT
MF	FAN MOTOR		
MV	VANE MOTOR		
TB2	TERMINAL POWER SUPPLY		
TB5	BLOCK TRANSMISSION		
TB15	MA-REMOTE CONTROLLER		



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

NOTES:

- 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 dip switches differs in the capacity. for the detail, refer to the fig:※1.
- <※2>Use copper supply wires.

PKFY-P24,30NKMU-E2

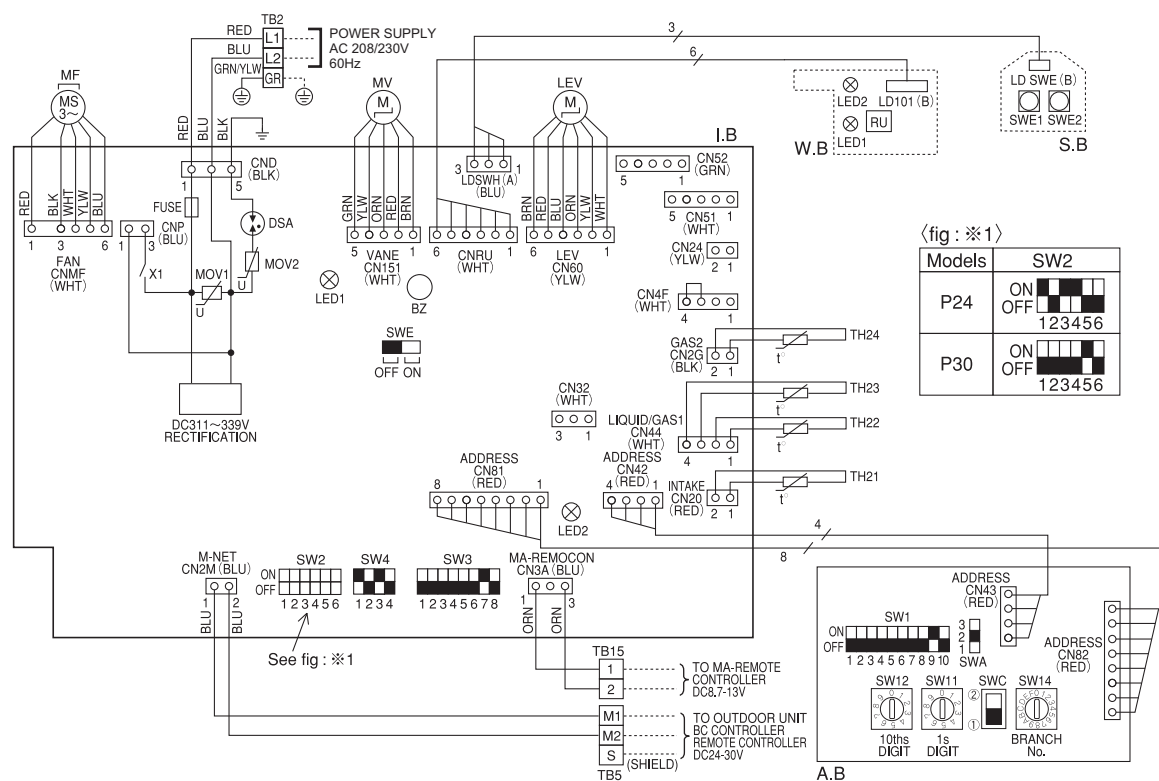
SYMBOL	NAME	SYMBOL	NAME
I.B	INDOOR CONTROLLER BOARD	TH21	THERMISTOR ROOM TEMP. DETECTION (32°F/15kΩ, 77°F/5.4kΩ)
CN24	CONNECTOR EXTERNAL HEATER	TH22	PIPE TEMP. DETECTION / LIQUID (32°F/15kΩ, 77°F/5.4kΩ)
CN32	REMOTE SWITCH	TH23	PIPE TEMP. DETECTION / GAS1 (32°F/15kΩ, 77°F/5.4kΩ)
CN51	CENTRALLY CONTROL	TH24	PIPE TEMP. DETECTION / GAS2 (32°F/15kΩ, 77°F/5.4kΩ)
CN52	REMOTE INDICATION	A.B	ADDRESS BOARD
BZ	BUZZER	SWA	SWITCH FAN SPEED SELECTOR
DSA	SURGE ABSORBER	SW1	MODE SELECTION
FUSE	FUSE (T3.15AL 250V)	SW11	ADDRESS SETTING 1s DIGIT
LED1	POWER SUPPLY (LB)	SW12	ADDRESS SETTING 10ths DIGIT
LED2	POWER SUPPLY (LB)	SW14	BRANCH No.
SW2	SWITCH CAPACITY CODE	S.B	SWITCH BOARD
SW3	MODE SELECTION	SWE1	EMERGENCY OPERATION(HEAT)
SW4	MODEL SELECTOR	SWE2	EMERGENCY OPERATION(COOL)
SWE	DRAIN PUMP (TEST MODE)	W.B	PCB FOR WIRELESS REMOTE CONTROLLER
X1	AUX.RELAY DRAIN PUMP	LED1	LED(OPERATION INDICATOR:GREEN)
MOV01,02	VARIATOR	LED2	LED(OPERATION FOR HEATING :ORANGE)
LEV	LINEAR EXPANSION VALVE	RU	RECEIVING UNIT
MF	FAN MOTOR		
MV	VANE MOTOR		
TB2	TERMINAL POWER SUPPLY		
TB5	BLOCK TRANSMISSION		
TB15	MA-REMOTE CONTROLLER		

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 wires.

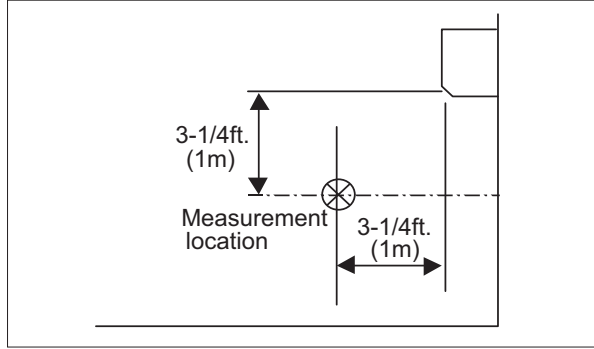
LED on indoor board for service

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

Wall mounted

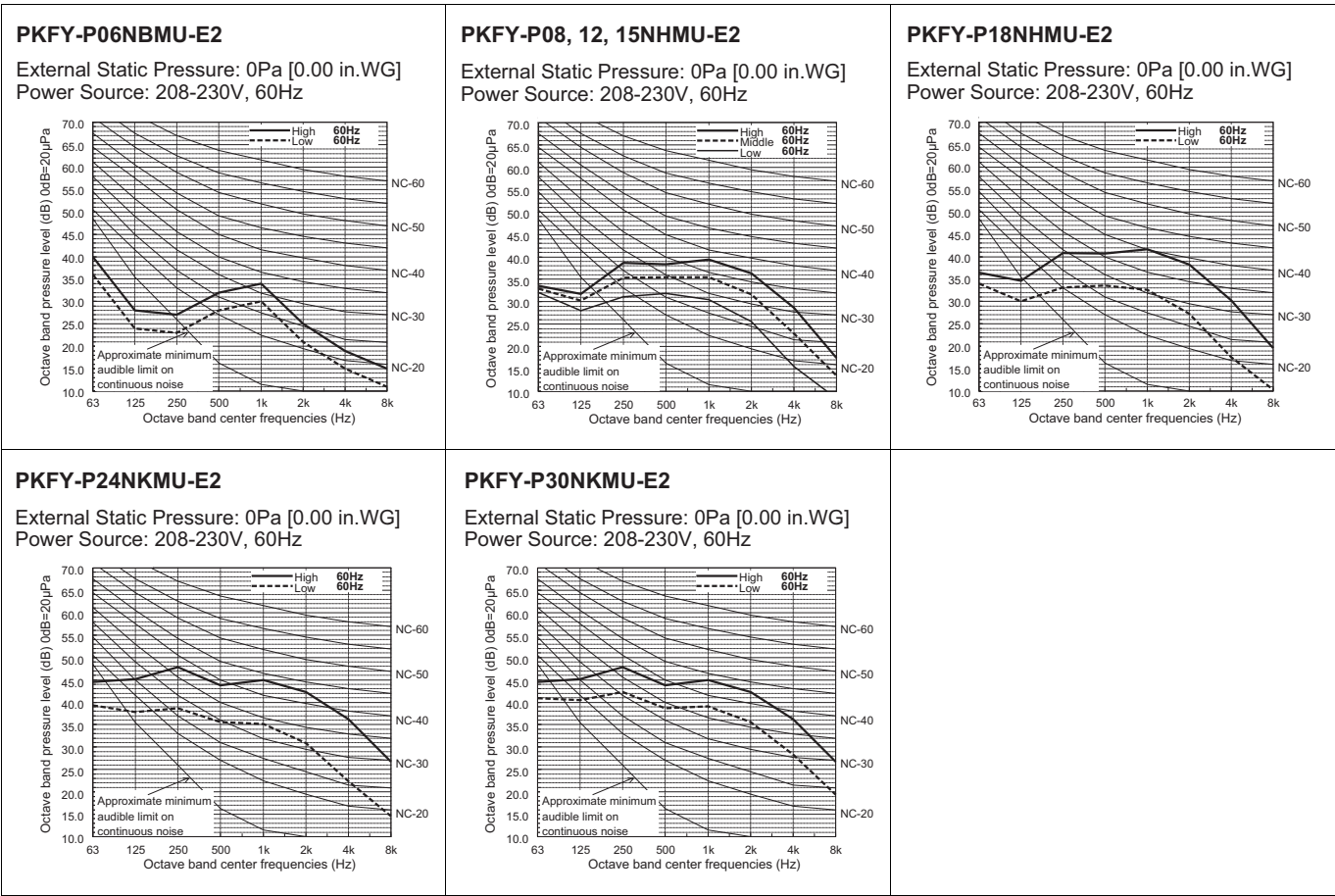


Sound level at anechoic room : Low-(Middle2-Middle1)-High

Model	Sound level dB (A)
PKFY-P06NBMU-E2	32-33-35-36
PKFY-P08,12,15NHMU-E2	34-39-43
PKFY-P18NHMU-E2	36-41-45
PKFY-P24NKMU-E2	39-49
PKFY-P30NKMU-E2	43-49

* Measured in anechoic room.

5-2. NC curves



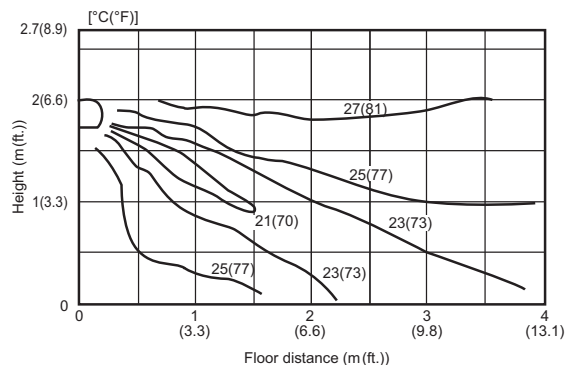
PKFY

6-1. Temperature distributions

PKFY-P06NBMU-E2

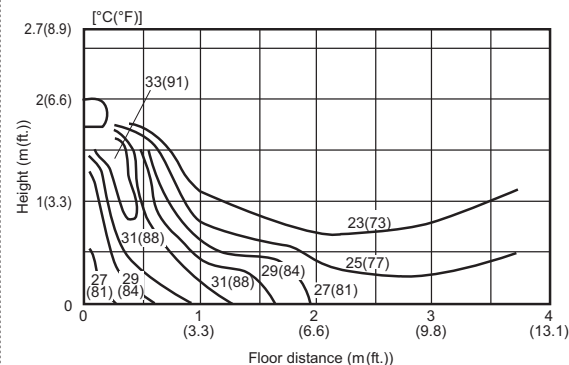
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Horizontal air flow



<Heating mode>

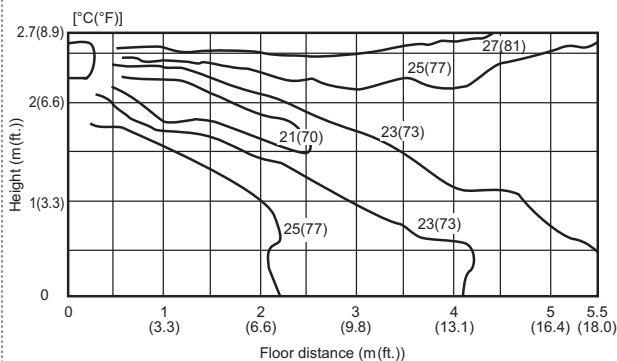
Downward air flow



PKFY-P08,12,15,18NHMU-E2

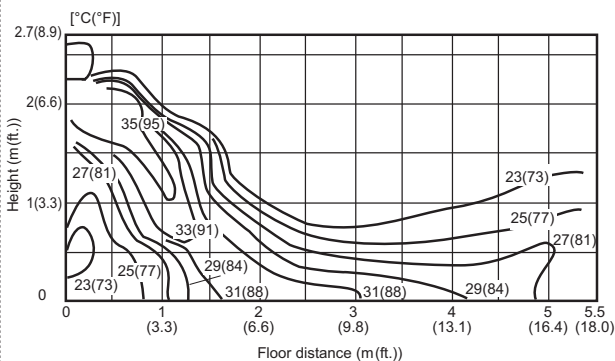
<Cooling mode>

Horizontal air flow



<Heating mode>

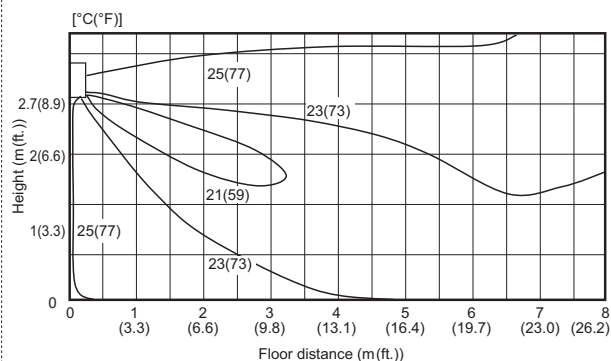
Downward air flow



PKFY-P24,30NKMU-E2

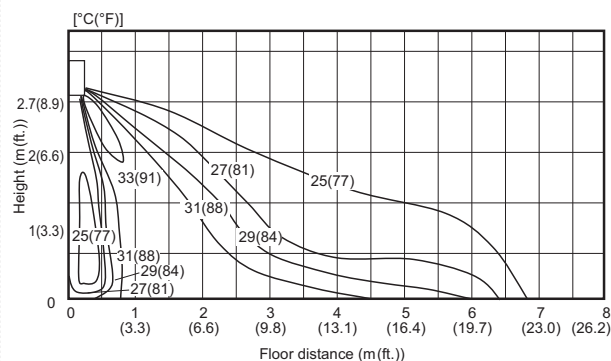
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Horizontal air flow



<Heating mode>

Downward air flow



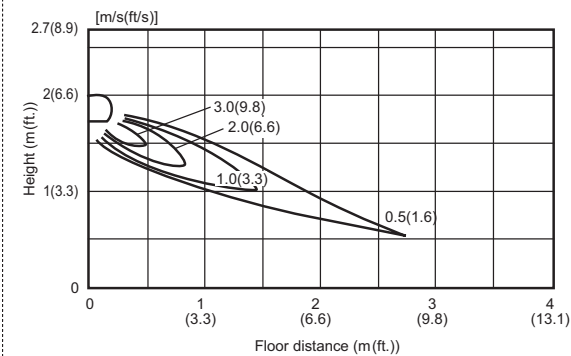
Note : These figures show typical temperature distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

6-2. Airflow distributions

PKFY-P06NBMU-E2

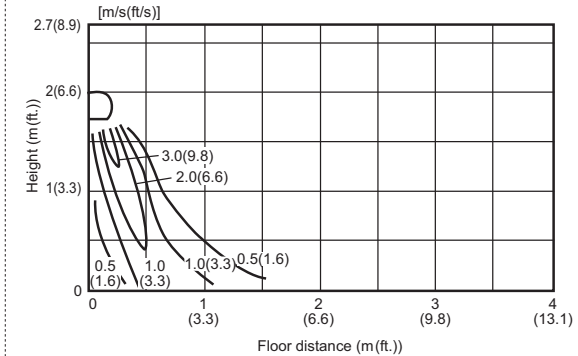
<Fan mode>

Horizontal air flow



<Fan mode>

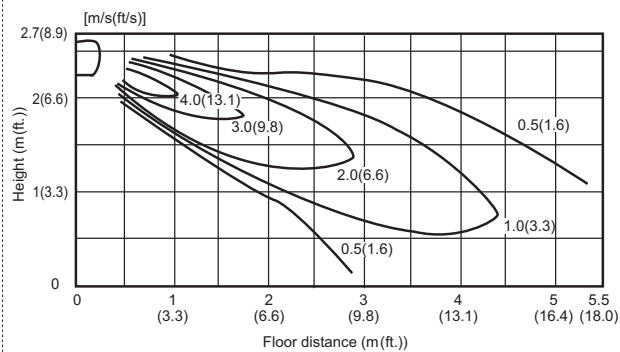
Downward air flow



PKFY-P08,12,15,18NHMU-E2

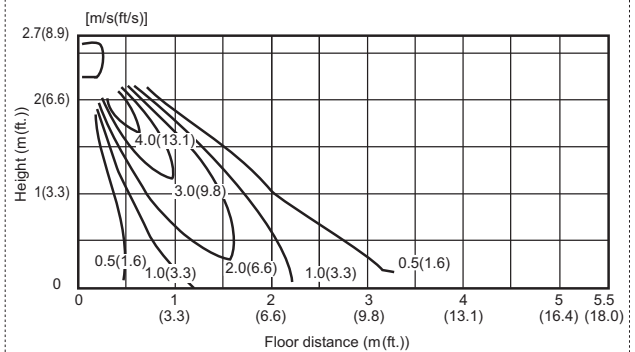
<Fan mode>

Horizontal air flow



<Fan mode>

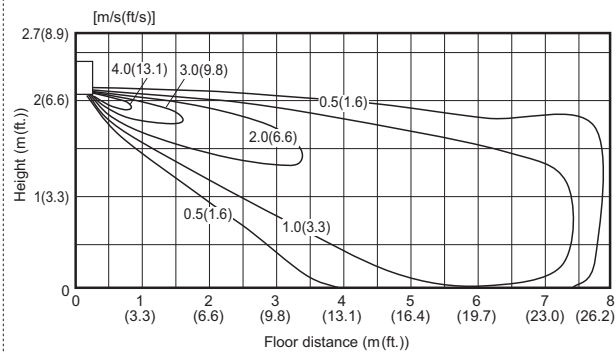
Downward air flow



PKFY-P24,30NKMU-E2

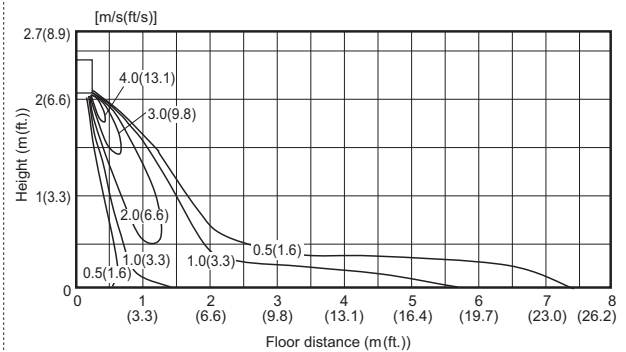
<Fan mode>

Horizontal air flow



<Fan mode>

Downward air flow



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

	External heater adapter	Remote display adapter
PKFY-P06NBMU-E2	-	PAC-SA88HA-EP
PKFY-P08,12,15,18NHMU-E2	PAC-YU25HT	-
PKFY-P24,30NKMU-E2	PAC-YU25HT	-

7-2. Remote display adapter

For the PKFY-BM model, it is possible to extract a signal for an external heater using the method shown below.
When using this unit, the optional external output cable (PAC-SA88HA) is also required.
*1. "Free contact function" of External heater and TG-2000 cannot be used.

Turn Dip switch SW1-5 of the indoor unit control board "ON" to use "free contact function".

1. Connecting external output cable

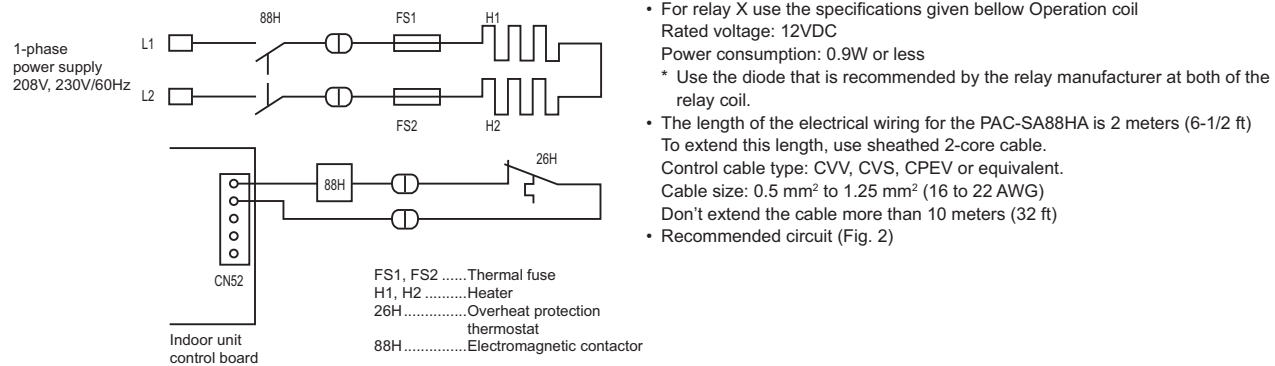
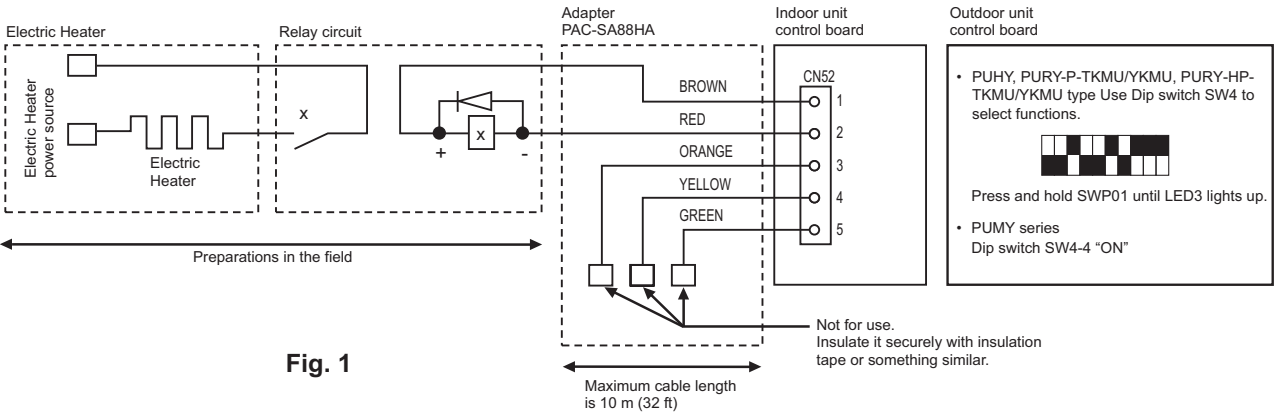
Use the cable with the connector that fits the connector on the indoor unit control board.

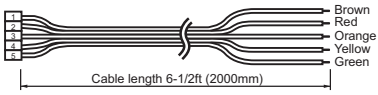
- External output cable (PAC-SA88HA)

This cable is used to connect the relay circuit that is used for an inter locked operation of indoor unit and electric heater. Connect the cable to connector CN52 on the indoor unit control board.

2. Locally Procured Wiring

A basic connection method is shown. Please refer to the service manual for details.



Item	① External output cable	
Quantity	1	
Shape (Dimensions)		

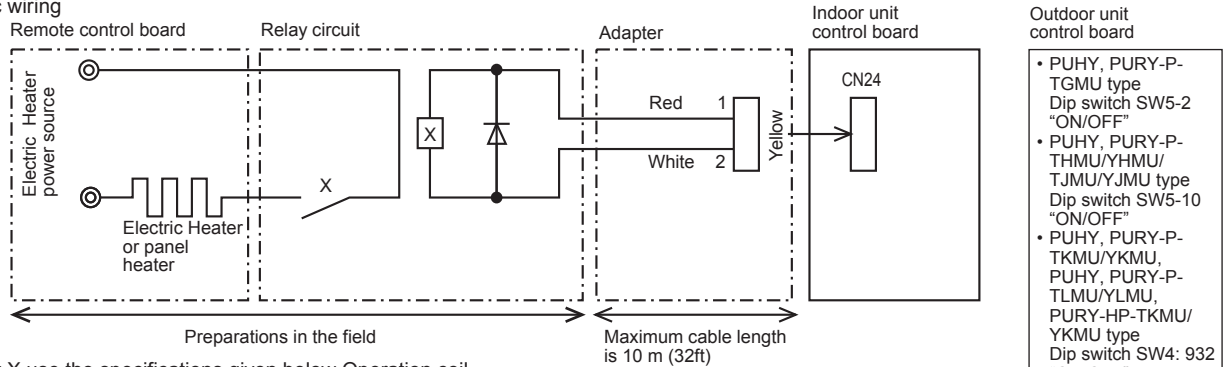
Wiring details and installation details should be referred to Installation Manual of PKFY-P-NBMU-E2.

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).

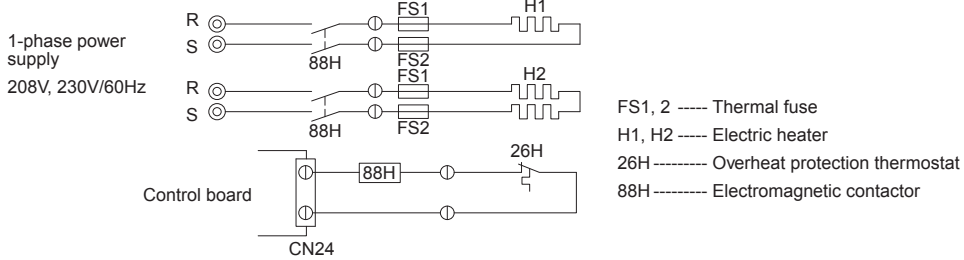
To extend this length, use sheathed 2-core cable.

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.