PKFY-P-NBMU-E, NHMU-E, NKMU-E

1. SPECIFICATIONS....PKFY-3
2. EXTERNAL DIMENSIONS....PKFY-6
3. CENTER OF GRAVITY....PKFY-9
4 ELECTRICAL WIRING DIAGRAMS....PKFY-10
5. SOUND PRESSURE LEVELS....PKFY-13
   - 5-1. Sound Pressure Levels....PKFY-13
   - 5-2. NC Curves....PKFY-13
6. TEMPERATURE/AIRFLOW DISTRIBUTIONS....PKFY-14
   - 6-1. Temperature Distributions....PKFY-14
   - 6-2. Airflow Distributions....PKFY-15
7. OPTIONAL PARTS....PKFY-16
   - 7-1. Optional Parts Line Up for the Indoor Unit....PKFY-16
   - 7-2. External Heater Adapter PAC-725AD for PKFY-P06,08NBMU-E....PKFY-16
   - 7-3. External Heater Adapter CN24RELAY-KIT-CM3 for PKFY-P12,15NHMU/-P24,30NKMU-E....PKFY-17



PKFY-P-NBMU-E



PKFY-P-NHMU-E



PKFY-P-NKMU-E

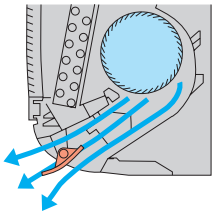
PKFY-P-NBMU-E
PKFY-P-NHMU-E
PKFY-P-NKMU-E

Elegant design and compact dimensions ideal for offices, stores and residential uses

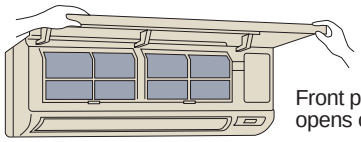
- **A wide selection for your design and performance needs**
- **They are more compact and weigh less than most competitive units. In addition, they are extremely quiet with one of the lowest sound ratings available from any manufacturer.**
- **The PKFY auto-vane feature delivers optimal air distribution and uniform temperature throughout your space.**
- **All of the performance and design flexibility come in a unit that is remarkably easy to install and maintain.**
- **The template and back mounting plate shipped with each unit makes application a snap.**
- **Built-in wireless receiver for optional PAR-FL32MA remote controller.**
- **Auto vane and auto fan speed on models P12, P15, and P18 deliver optimal air distribution and uniform temperatures throughout the space.**

- **Operation is among the quietest available**

Optimized airflow passage.
Avoid turbo air returning
Avoid dewing at outlet.



- **Front panel opens for easy filter cleaning**



Front panel opens out

Wall mounted		P06	P08	P12	P15	P18	P24	P27	P30	P36	P48	P54	P72	P96
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
PKFY-P-NBMU-E		●	●											
PKFY-P-NHMU-E				●	●	●								
PKFY-P-NKMU-E							●		●					

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

1. SPECIFICATIONS

Model			PKFY-P06NBMU-E	PKFY-P08NBMU-E	PKFY-P12NHMU-E	PKFY-P15NHMU-E
Power source			1-phase 208/230V 60Hz			
Cooling capacity (Nominal) *1		BTU / h	6,000	8,000	12,000	15,000
		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	0.15	0.30	0.30
Heating capacity (Nominal) *2		BTU / h	6,700	9,000	13,500	17,000
		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	0.15	0.30	0.30
MCA		A	0.19	0.19	0.38	0.38
External finish			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 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
		mm	295x815x225	295x815x225	295x898x249	295x898x249
Net weight		lbs (kg)	22 (10)	22 (10)	29(13)	29(13)
Heat exchanger			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 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		1-phase induction motor	1-phase induction motor	DC motor	DC motor
	Motor output	kW	0.008	0.008	0.030	0.030
	Driving mechanism		Direct-driven by motor			
	Air flow rate (Low-Mid1-Mid2-High)	cfm	170-180-200-210	170-180-200-210	320-355-390	320-370-405
		m^3 / min	4.9-5.2-5.6-5.9	4.9-5.2-5.6-5.9	9-10-11	9-10.5-11.5
		L/s	82-87-93-98	82-87-93-98	150-167-183	150-175-192
Sound pressure level (Low-Mid1-Mid2-High) (measured in an anechoic room)		dB <A>	32-33-35-36	32-33-35-36	34-38-42	34-38-42
Insulation material			Polyethylene sheet			
Air filter			Polypropylene Honeycomb			
Protection device			Fuse			
Refrigerant control device			LEV			
Connectable outdoor unit			R410A , R22 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
	(R22)		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
	(R22)		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			
	Accessory		-	-	-	-
Optional parts	External heater adapter		PAC-725AD	PAC-725AD	CN24RELAY-KIT-CM3	CN24RELAY-KIT-CM3
Remarks			* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			

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.

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

1. SPECIFICATIONS

Model			PKFY-P18NHMU-E	PKFY-P24NKMU-E	PKFY-P30NKMU-E
Power source			1-phase 208/230V 60Hz		
Cooling capacity (Nominal) *1		BTU / h	18,000	24,000	30,000
		kW	5.3	7.0	8.8
	Power input	kW	0.03	0.04	0.06
	Current input	A	0.30	0.29	0.43
Heating capacity (Nominal) *2		BTU / h	20,000	27,000	34,000
		kW	5.9	7.9	10.0
	Power input	kW	0.03	0.04	0.06
	Current input	A	0.30	0.29	0.43
MCA		A	0.38	0.37	0.54
External finish			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)		
FAN	Type x Quantity		Line flow fan x 1		
	External static pressure	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		
	Air flow rate (Low-Mid1-Mid2-High)	cfm	320-370-425	570-710	710-850
		m^3 / min	9-10.5-12	16-20	20-24
		L/s	150-175-200	267-333	333-400
Sound pressure level (Low-Mid1- Mid2-High) (measured in ananechoic room)		dB <A>	36-41-45	39-45	43-49
Insulation material			Polyethylene sheet		
Air filter			Polypropylene Honeycomb		
Protection device			Fuse		
Refrigerant control device			LEV		
Connectable outdoor unit			R410A, R22 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
	(R22)		3/8(9.52) 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
	(R22)		5/8(15.88) 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		
	Accessory		-	L-shaped connection pipe	L-shaped connection pipe
Optional parts	External heater adapter		CN24RELAY-KIT-CM3	CN24RELAY-KIT-CM3	CN24RELAY-KIT-CM3
Remarks			* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.		

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.

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

Symbols: MCA : Min.Circuit Amps (=1.25xFLA) FLA : Full Load Amps

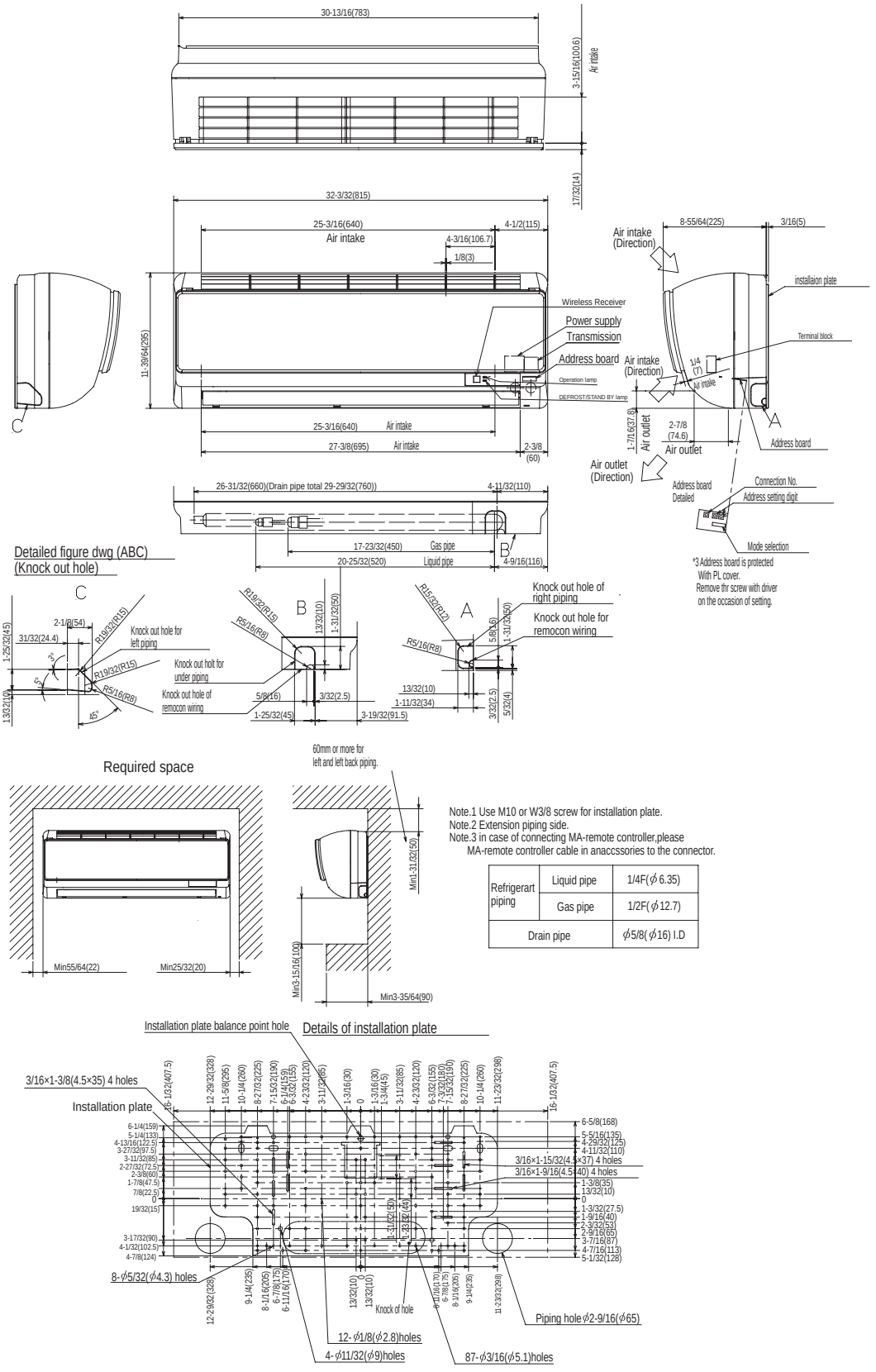
IFM :Indoor Fan Motor

Electrical characteristics of Indoor unit

Model	Indoor Unit				IFM
	Hz	Volts	Voltage range	MCA(A)	FLA(A)
PKFY-P06NBMU-E	60Hz	208 / 230V	198 to 253V	0.19 / 0.19	0.15 / 0.15
PKFY-P08NBMU-E				0.19 / 0.19	0.15 / 0.15
PKFY-P12NHMU-E				0.38 / 0.38	0.30 / 0.30
PKFY-P15NHMU-E				0.38 / 0.38	0.30 / 0.30
PKFY-P18NHMU-E				0.38 / 0.38	0.30 / 0.30
PKFY-P24NKMU-E				0.37 / 0.37	0.29 / 0.29
PKFY-P30NKMU-E				0.54 / 0.54	0.43 / 0.43

PKFY-P06, 08NBMU-E

Unit : in(mm)



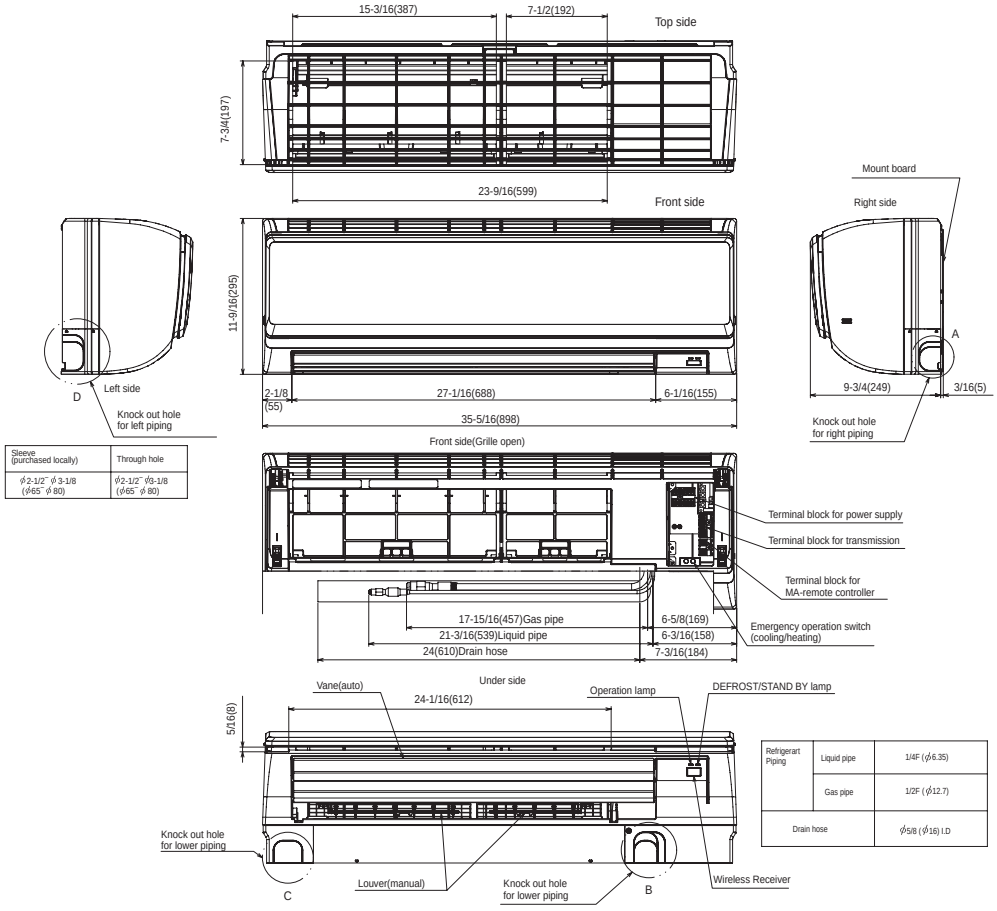
Note.1 Use M10 or W3/8 screw for installation plate.
Note.2 Extension piping side.
Note.3 in case of connecting MA-remote controller,please MA-remote controller cable in anaccssories to the connector.

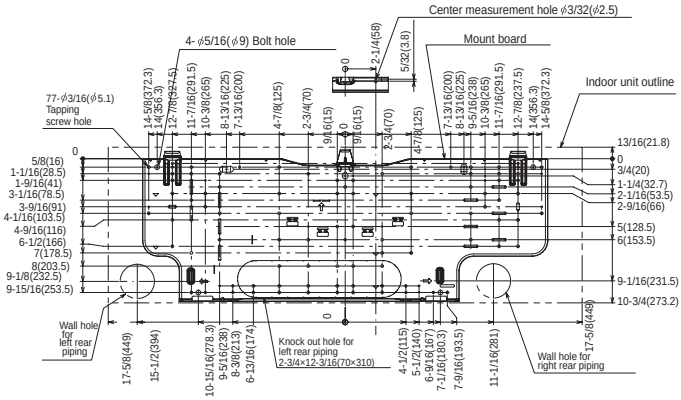
Refrigerart piping	Liquid pipe	1/4F(ϕ6.35)
	Gas pipe	1/2F(ϕ12.7)
Drain pipe		ϕ5/8(ϕ16) I.D

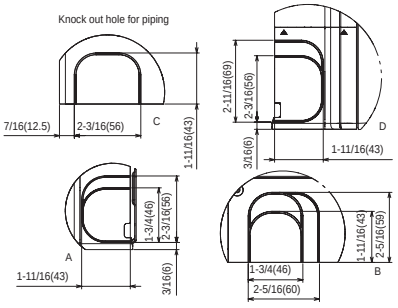
2. EXTERNAL DIMENSIONS

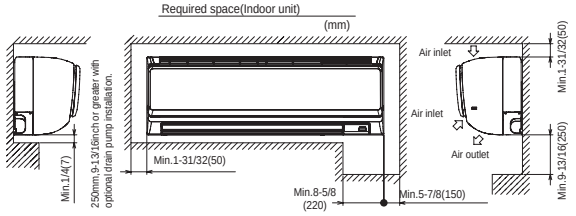
PKFY-P12, 15, 18NHMU-E

Unit : in(mm)



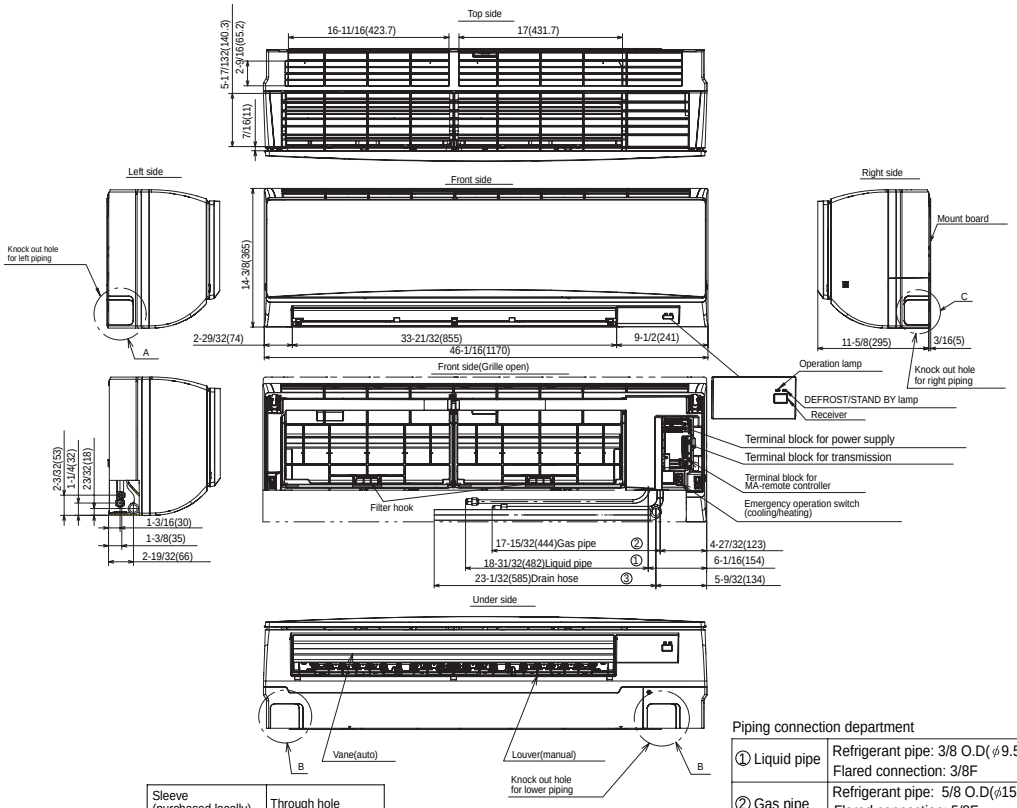






PKFY-P24, 30NKMU-E

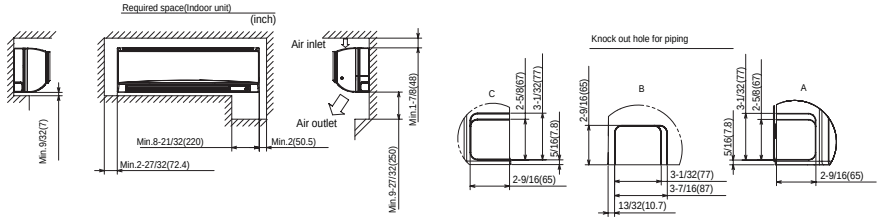
Unit : in(mm)

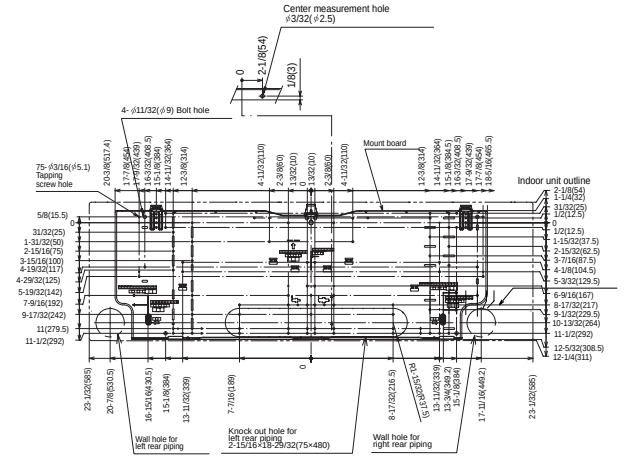


Sleeve (purchased locally)	Through hole
ϕ2-15/16 (ϕ75)	ϕ2-15/16~ ϕ3-5/32 (ϕ75~ ϕ80)

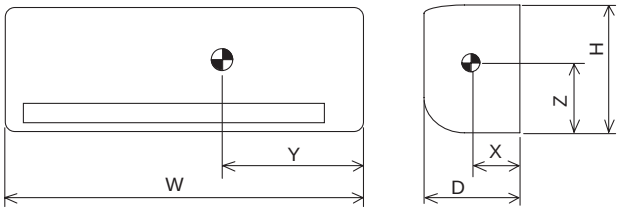
Piping connection department

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-E, NHMU-E, NKMU-E



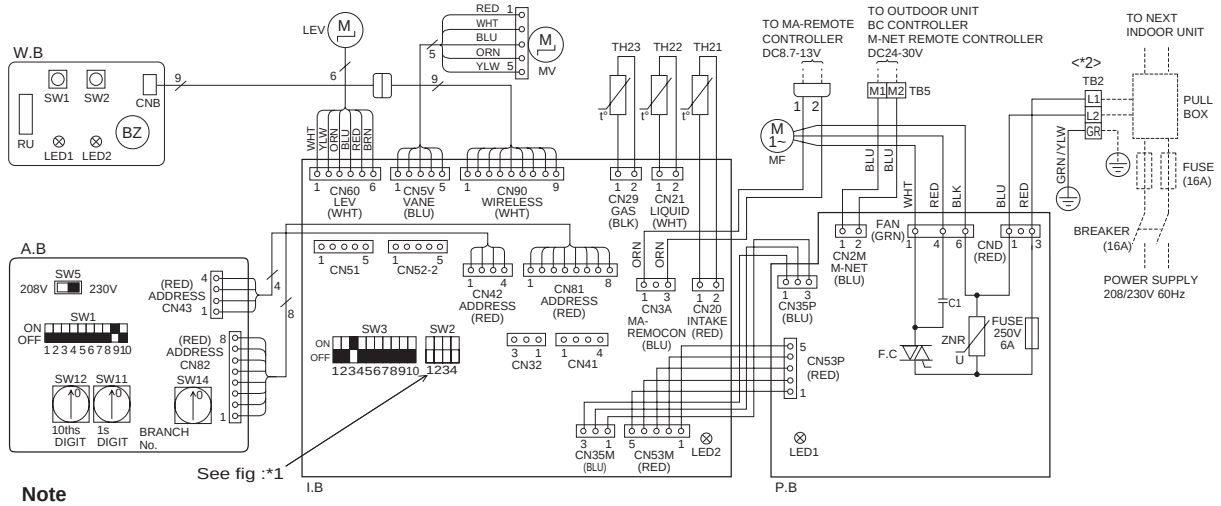
in(mm)

Model	W	D	H	X	Y	Z
PKFY-P06NBMU-E	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-P08NBMU-E	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-P12NHMU-E	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-E	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-E	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-E	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-E	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-P06,08NBMU-E

Legend

Symbol	Name		Symbol	Name		Symbol	Name	
I.B	Indoor controller board		MV	Vane motor		SW5	Switch	Voltage selection
CN20	Connector	Drain Safety	LEV	Linear expansion valve		SW11		Address setting 1s digit
CN32		Remote switch	TB2	Terminal block	Power supply	SW12		Address setting 10ths digit
CN51		Centrally control	TB5		Transmission	SW14		Branch No.
CN52-2		External Heater	TH21	Thermistor	Room temp.detection (32°F/15kΩ,77°F/5.4kΩ)	W.B	Wireless remote controller board	
SW2	Switch	Capacity code				RU	Receving unit	
SW3		Mode selection	TH22		Pipe temp.detection/Liquid (32°F/15kΩ,77°F/5.4kΩ)	BZ	Buzzer	
P.B	Indoor power board					LED1	LED(Operation indicator:Green)	
ZNR	Varistor		TH23		Pipe temp.detection/Gas (32°F/15kΩ,77°F/5.4kΩ)	LED2	LED(Preparation for heating:Orange)	
FUSE	Fuse (6A 250V)					SW1	Emergency operation (Heat)	
F.C	Fan phase control					SW2	Emergency operation (Cool)	
C1	Capacitor (Fan motor)		A.B	Address board				
MF	Fan motor		SW1	Switch	Mode selection			



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.The setting of the SW2 dip switches differs in the capacity. For the detail, refer to the fig :*1.

6.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

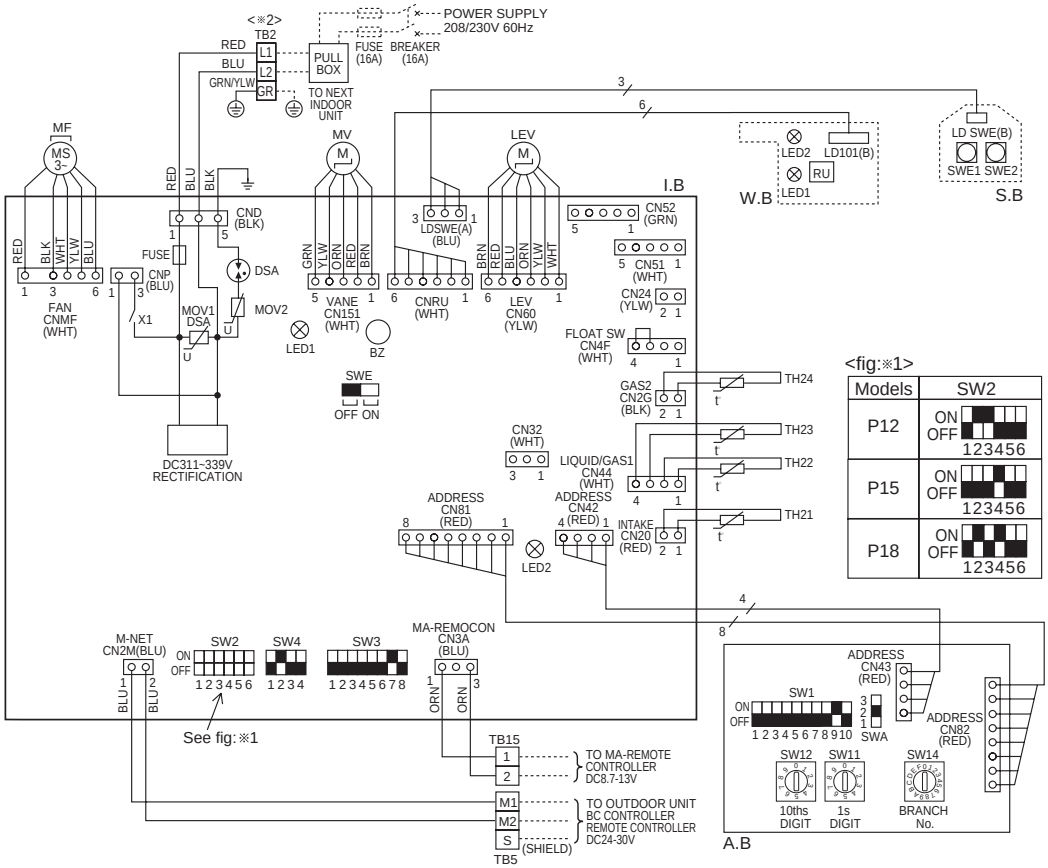
<*1>

MODELS	SW2	MODELS	SW2
P06	ON OFF 1 2 3 4	P08	ON OFF 1 2 3 4

<*2>Use copper supply wires.

PKFY-P12,15,18NHMU-E

SYMBOL	NAME		SYMBOL	NAME	
I.B	INDOOR CONTROLLER BOARD		TH21	THERMISTOR	ROOM TEMP. DETECTION (32°F/15kΩ,77°F/5.4kΩ)
CN4F	CONNECTOR	Drain Safety	TH22		PIPE TEMP. DETECTION / LIQUID (32°F/15kΩ,77°F/5.4kΩ)
CN24		EXTERNAL HEATER	TH23		PIPE TEMP. DETECTION / GAS1 (32°F/15kΩ,77°F/5.4kΩ)
CN32		REMOTE SWITCH	TH24		PIPE TEMP. DETECTION / GAS2 (32°F/15kΩ,77°F/5.4kΩ)
CN51		CENTRALLY CONTROL	A.B	ADDRESS BOARD	
CN52		REMOTE INDICATION	SWA	SWITCH	FAN SPEED SELECTOR
BZ	BUZZER		SW1		MODE SELECTION
DSA	SURGE ABSORBER		SW11		ADDRESS SETTING 1s DIGIT
FUSE	FUSE (T3.15AL 250V)		SW12		ADDRESS SETTING 10ths DIGIT
LED1	POWER SUPPLY (I.B)		SW14		BRANCH No.
LED2	POWER SUPPLY (I.B)		S.B	SWITCH BOARD	
SW2	SWITCH	CAPACITY CODE	SWE1	EMERGENCY OPERATION(HEAT)	
SW3		MODE SELECTION	SWE2	EMERGENCY OPERATION(COOL)	
SW4		MODEL SELECTOR	W.B	PCB FOR WIRELESS REMOTE CONTROLLER	
SWE		DRAIN PUMP (TEST MODE)	LED1	LED(OPERATION INDICATOR:GREEN)	
X1	AUX.RELAY	DRAIN PUMP (OPTION)	LED2	LED(OPERATION FOR HEATING :ORANGE)	
MOV 01.02	VARISTOR		RU	RECEIVING UNIT	
LEV	LINEAR EXPANSION VALVE				
MF	FAN MOTOR				
MV	VANE MOTOR				
TB2	TERMINAL	POWER SUPPLY			
TB5	BLOCK	TRANSMISSION			
TB15		MA-REMOTE CONTROLLER			



<fig:※1>

Models	SW2
P12	ON OFF 123456
P15	ON OFF 123456
P18	ON OFF 123456

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, ○○○:connecter.
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-E

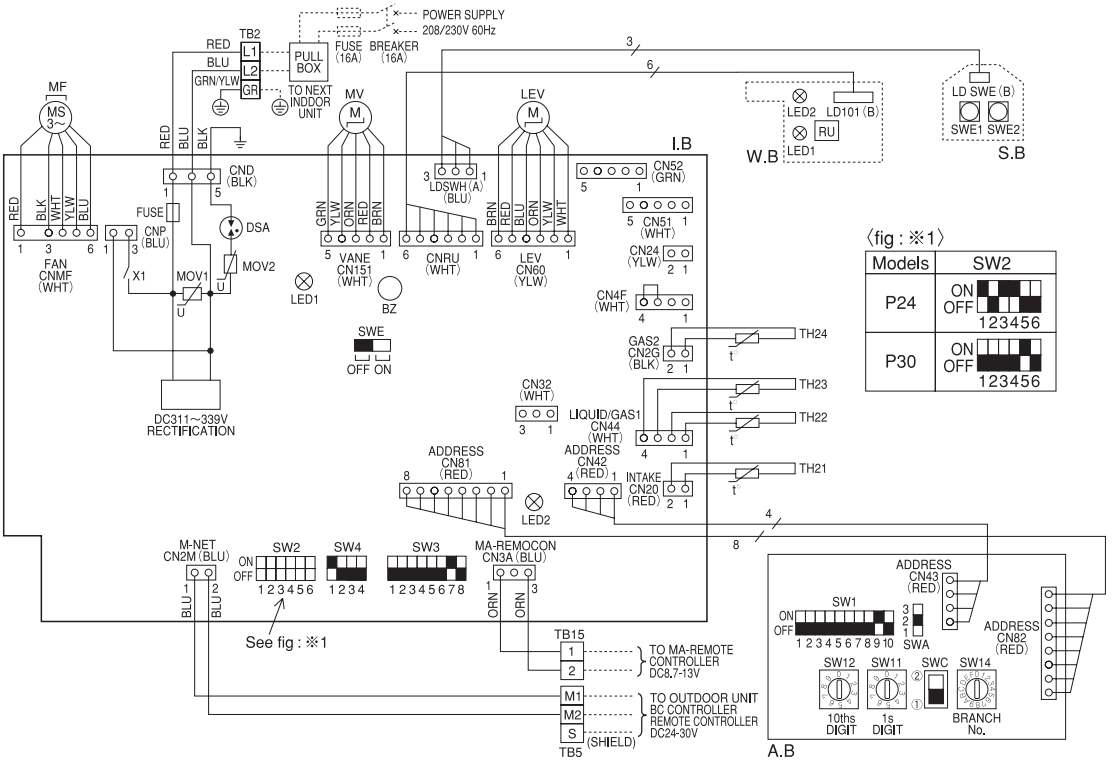
SYMBOL	NAME		SYMBOL	NAME	
I.B	INDOOR CONTROLLER BOARD		TH21	THERMISTOR	ROOM TEMP. DETECTION (32°F/15kΩ、77°F/5.4kΩ)
CN4F	CONNECTOR	DRAIN SAFETY			
CN24		EXTERNAL HEATER			
CN32		REMOTE SWITCH	TH22		PIPE TEMP. DETECTION / LIQUID (32°F/15kΩ、77°F/5.4kΩ)
CN51		CENTRALLY CONTROL			
CN52		REMOTE INDICATION	TH23		PIPE TEMP. DETECTION / GAS1 (32°F/15kΩ、77°F/5.4kΩ)
BZ	BUZZER				
DSA	SURGE ABSORBER		TH24		PIPE TEMP. DETECTION / GAS2 (32°F/15kΩ、77°F/5.4kΩ)
FUSE	FUSE (T3.15AL 250V)				
LED1	POWER SUPPLY (I.B)		A.B	ADDRESS BOARD	
LED2	POWER SUPPLY (I.B)		SWA	SWITCH	FAN SPEED SELECTOR
SW2	SWITCH	CAPACITY CODE	SW1		MODE SELECTION
SW3		MODE SELECTION	SW11		ADDRESS SETTING 1s DIGIT
SW4		MODEL SELECTOR	SW12		ADDRESS SETTING 10ths DIGIT
SWE		DRAIN PUMP (TEST MODE)	SW14		BRANCH No.
X1	AUX.RELAY	DRAIN PUMP	S.B	SWITCH BOARD	
MOV01,02	VARISTOR		SWE1	EMERGENCY OPERATION(HEAT)	
LEV	LINEAR EXPANSION VALVE		SWE2	EMERGENCY OPERATION(COOL)	
MF	FAN MOTOR		W.B	PCB FOR WIRELESS REMOTE CONTROLLER	
MV	VANE MOTOR		LED1	LED(OPERATION INDICATOR:GREEN)	
TB2	TERMINAL	POWER SUPPLY	LED2	LED(OPERARTION FOR HEATING :ORANGE)	
TB5	BLOCK	TRANSMISSION	RU	RECEIVING UNIT	
TB15		MA-REMOTE CONTROLLER			

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, ○○○ :connecter.
6. 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

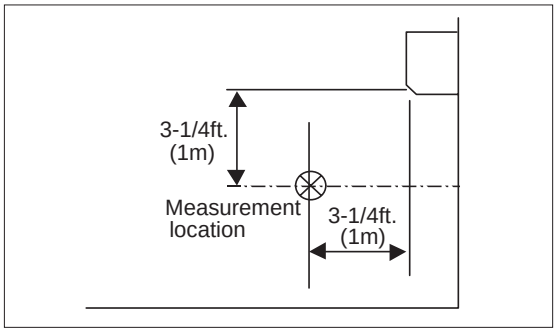


〈fig : ※1〉

Models	SW2
P24	ON OFF 123456
P30	ON OFF 123456

5-1. Sound Pressure Levels

Wall mounted



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

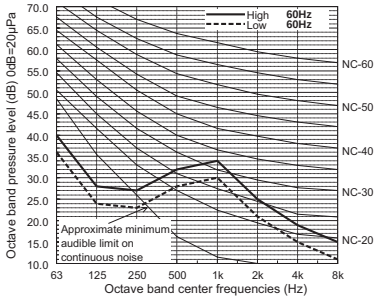
Model	Sound level dB (A)
PKFY-P06,08NBMU-E	32-33-35-36
PKFY-P12,15NHMU-E	34-38-42
PKFY-P18NHMU-E	36-41-45
PKFY-P24NKMU-E	39-45
PKFY-P30NKMU-E	43-49

* Measured in anechoic room.

5-2. NC Curves

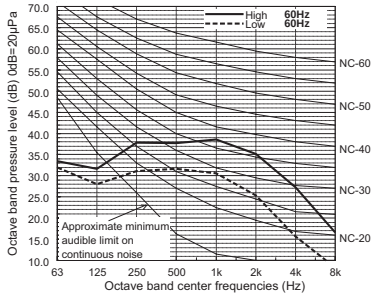
PKFY-P06, 08NBMU-E

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



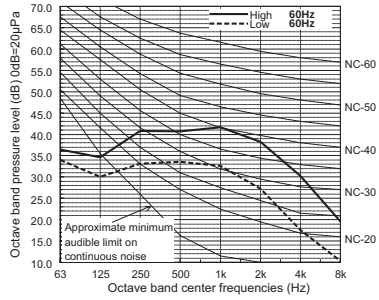
PKFY-P12, 15NHMU-E

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



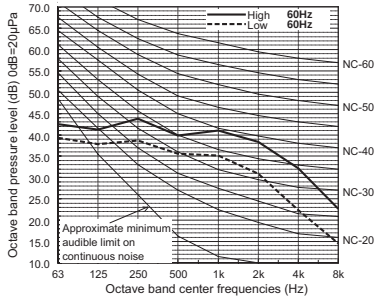
PKFY-P18NHMU-E

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



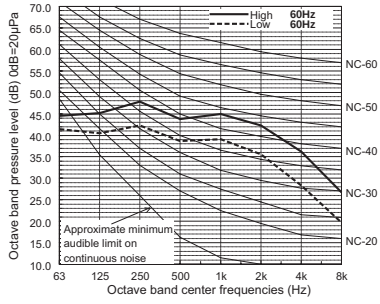
PKFY-P24NKMU-E

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



PKFY-P30NKMU-E

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

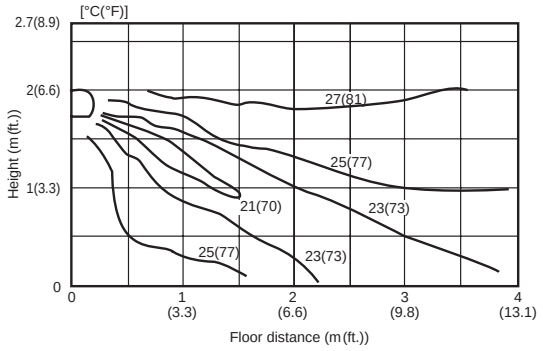


6. TEMPERATURE/AIRFLOW DISTRIBUTIONS

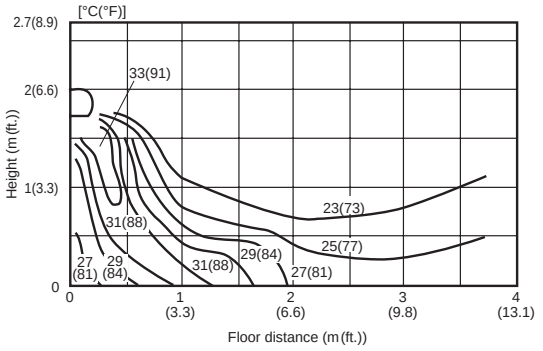
6-1. Temperature Distributions

PKFY-P06,08NBMU-E

<Cooling mode>
Horizontal air flow

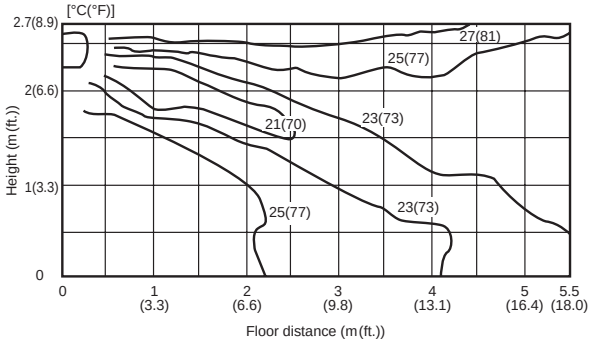


<Heating mode>
Downward air flow

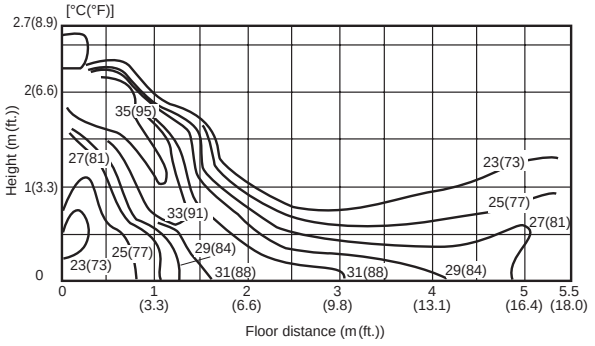


PKFY-P12,15,18NHMU-E

<Cooling mode>
Horizontal air flow

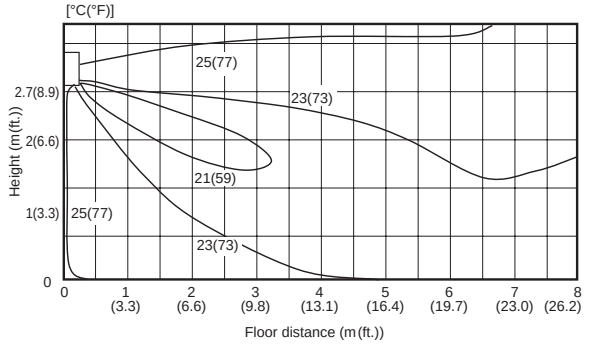


<Heating mode>
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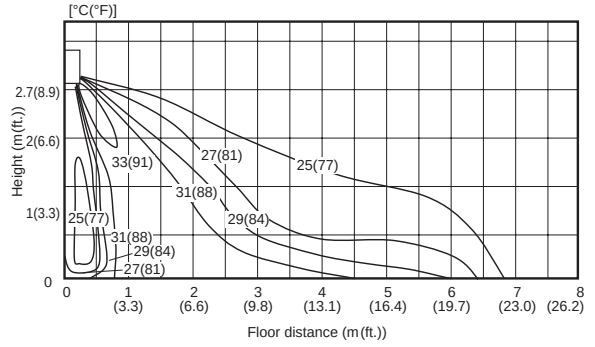


PKFY-P24,30NKMU-E

<Cooling mode>
Horizontal air flow



<Heating mode>
Downward air flow

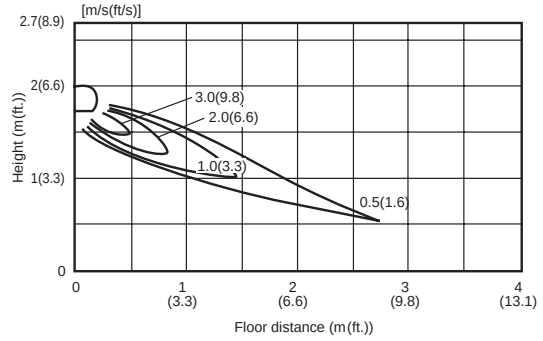


Note : These figures show typical temperature distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

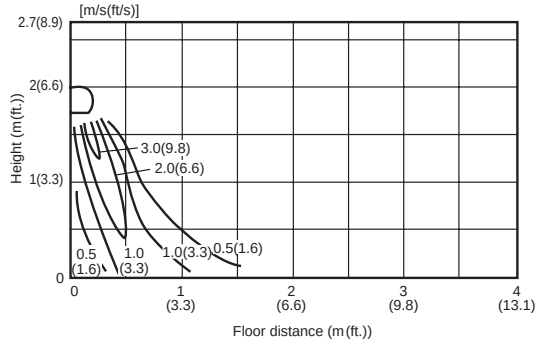
6-2. Airflow Distributions

PKFY-P06,08NBMU-E

<Fan mode>
Horizontal air flow

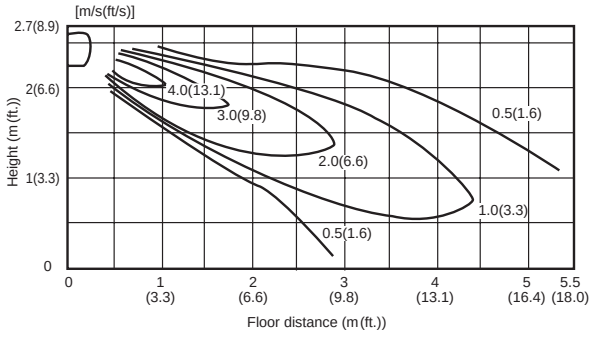


<Fan mode>
Downward air flow

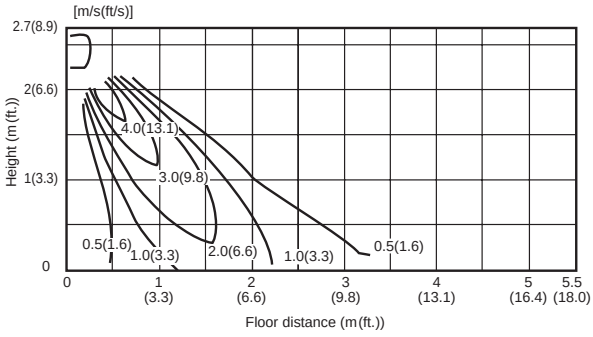


PKFY-P12,15,18NHMU-E

<Fan mode>
Horizontal air flow

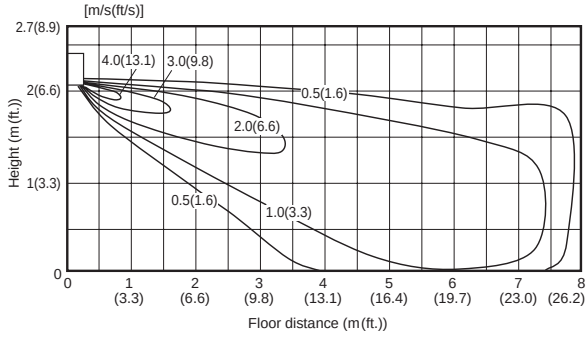


<Fan mode>
Downward air flow

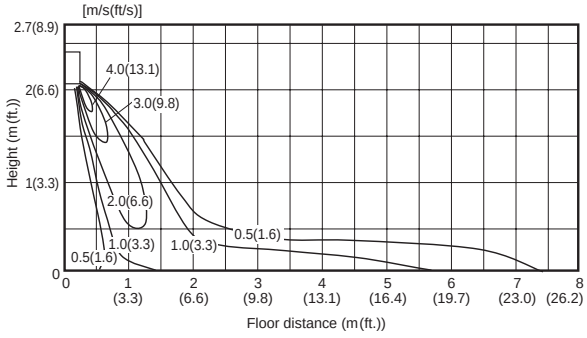


PKFY-P24,30NKMU-E

<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
PKFY-P06,08NBMU-E	PAC-725AD
PKFY-P12,15,18NHMU-E	CN24RELAY-KIT-CM3
PKFY-P24,30NKMU-E	CN24RELAY-KIT-CM3

7-2. External heater adapter PAC-725AD for PKFY-P06,08NBMU-E

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-725AD) 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-725AD)
  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. Field-supplied Wiring

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

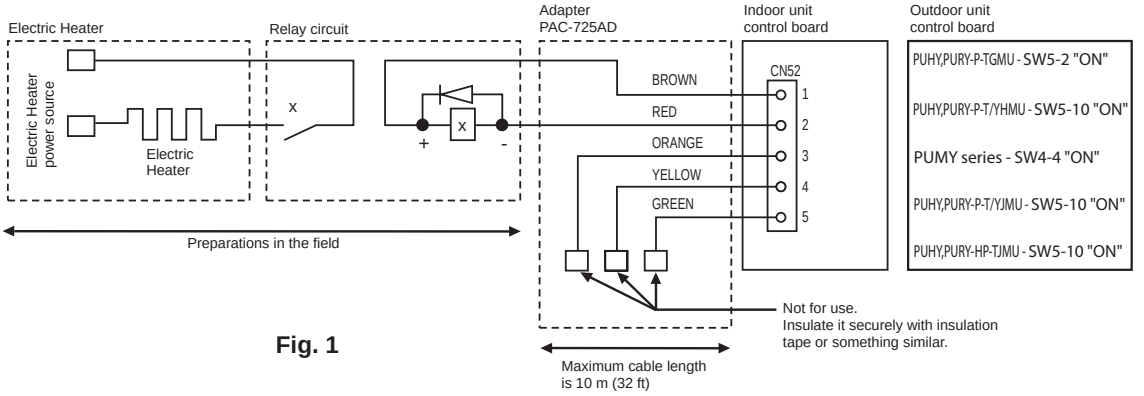


Fig. 1

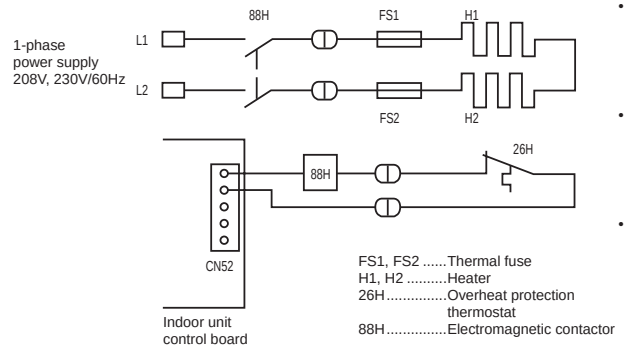
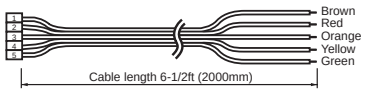


Fig. 2

- For relay X use the specifications given bellow Operation coil
  Rated voltage: 12VDC
  Power consumption: 0.9W or less
  * Use the diode that is recommended by the relay manufacturer at both of the relay coil.
- The length of the electrical wiring for the PAC-725AD 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 to 1.25 mm^2 (16 to 22 AWG)
  Don’t extend the cable more than 10 meters (32 ft)
- Recommended circuit (Fig. 2)

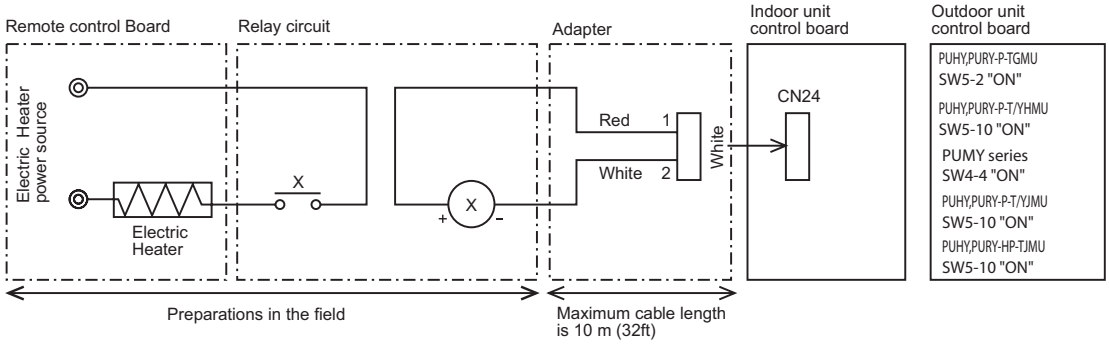
Item	① External output cable	
Quantity	1	
Shape (Dimensions)		

Wiring details and installation details should be referred to Installation Manual of PKFY-P-NBMU-E. (RG79D501)

7-3. External Heater Adapter CN24RELAY-KIT-CM3 for PKFY-P12,15NHMU-E/-P24,30NKMU-E

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.

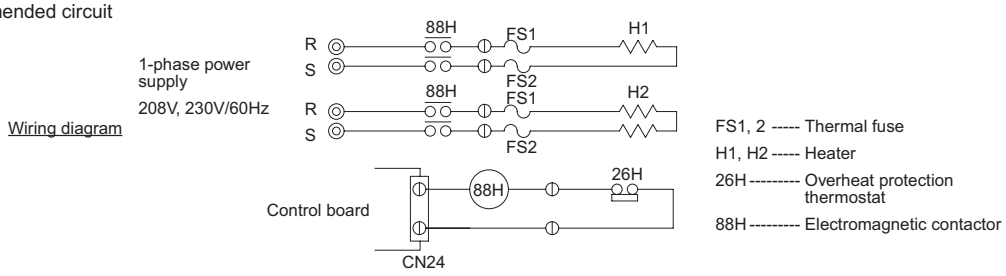
A basic connection method is shown as follows:(For details, refer to its Installation Manual.)

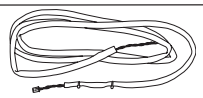
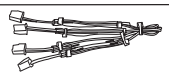


For relay X use the specifications given below Operation coil
- Rated voltage : 12VDC
- Power consumption : 0.9W or less

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.