MITSUBISHI ELECTRIC

Changes for the Better

AIR CONDITIONING SYSTEMS

CITY MULTI

DATA BOOK

MODEL

PKFY-M-NLMU-A

PKFY-M-NKMU-A

CONTENTS

PKFY-M-NLMU-A, PKFY-M-NKMU-A

1. SPECIFICATIONS

Model			PKFY-M04NLMU-A	PKFY-M06NLMU-A	PKFY-M08NLMU-A	PKFY-M12NLMU-A
Power source			1-phase 208/230V 60Hz	1-phase 208/230V 60Hz	1-phase 208/230V 60Hz	1-phase 208/230V 60Hz
Cooling capacity	*1	BTU/h	4,000	6,000	8,000	12,000
(Nominal)	*1	kW	1.1	1.8	2.3	3.5
	Power input	kW	0.02	0.02	0.03	0.04
	Current input	A	0.20	0.20	0.25	0.35
Heating capacity	*2	BTU/h	4,500	6,700	9,000	13,500
(Nominal)	*2	kW	1.3	2.0	2.6	4.0
	Power input	kW	0.01	0.01	0.02	0.03
	Current input	A	0.15	0.15	0.20	0.30
External finish			Plastic (0.7PB 9.2/0.4)	Plastic (0.7PB 9.2/0.4)	Plastic (0.7PB 9.2/0.4)	Plastic (0.7PB 9.2/0.4)
External dimension HxWxD		in.	11-25/32 x 30-7/16 x 9-11/32	11-25/32 x 30-7/16 x 9-11/32	11-25/32 x 30-7/16 x 9-11/32	11-25/32 x 30-7/16 x 9-11/32
		mm	299 x 773 x 237	299 x 773 x 237	299 x 773 x 237	299 x 773 x 237
Net weight		lbs (kg)	23.6(10.7)	24.5(11.1)	24.5(11.1)	24.5(11.1)
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	0	0	0
		Pa	0	0	0	0
	Motor Type		DC motor	DC motor	DC motor	DC motor
	Motor output	kW	0.030	0.030	0.030	0.030
	Driving mechanism		Direct-driven	Direct-driven	Direct-driven	Direct-driven
	Air flow rate	cfm	117-124-134-148	141-155-173-191	141-162-191-237	152-191-244-297
	(Low-Mid2-Mid1-High)	m^3/min	3.3-3.5-3.8-4.2	4.0-4.4-4.9-5.4	4.0-4.6-5.4-6.7	4.3-5.4-6.9-8.4
		L/s	55-58-63-70	67-73-82-90	67-77-90-112	72-90-115-140
Sound pressure level (measured in anechoic room)		dB <A>	22-24-26-28	22-26-29-31	22-27-31-35	24-31-37-41
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			R32/R454B CITY MULTI	R32/R454B CITY MULTI	R32/R454B CITY MULTI	R32/R454B CITY MULTI
Diameter of refrigerant pipe	Liquid	in.(mm)	1/4(6.35)	1/4(6.35)	1/4(6.35)	1/4(6.35)
	Gas	in.(mm)	1/2(12.7)	1/2(12.7)	1/2(12.7)	1/2(12.7)
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	Drain pump kit		PAC-SL48DM-E	PAC-SL48DM-E	PAC-SL48DM-E	PAC-SL48DM-E
	External heater adapter		PAC-YU25HT	PAC-YU25HT	PAC-YU25HT	PAC-YU25HT
	Alarm Kit		PAC-SL54AL-E	PAC-SL54AL-E	PAC-SL54AL-E	PAC-SL54AL-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.			

Note :	*1 Nominal cooling conditions	*2 Nominal heating conditions
Indoor :	80degF D.B. / 67degF W.B.	70degF D.B.
	(26.7degC D.B. / 19.4degC W.B.)	(21.0degC D.B.)
Outdoor :	95degF D.B.	47degF D.B. / 43degF W.B.
	(35degC D.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)

Unit converter
BTU/h = kW x 3,412
cfm = m^3/min x 35.31
lbs = kg / 0.4536
*The specification data is subject to rounding variation.

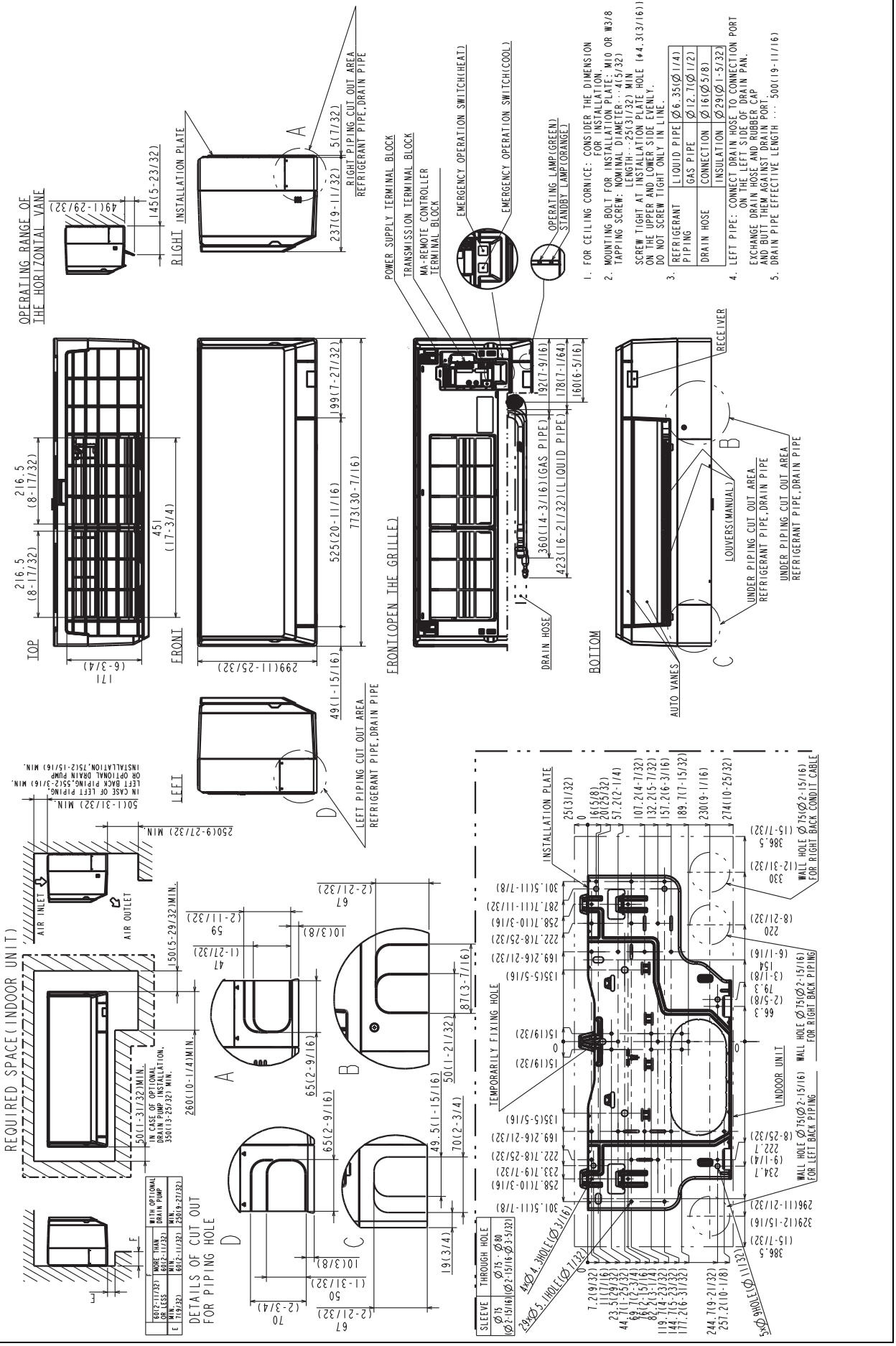
Model			PKFY-M15NLMU-A	PKFY-M18NLMU-A	PKFY-M24NKMU-A	PKFY-M30NKMU-A
Power source			1-phase 208/230V 60Hz	1-phase 208/230V 60Hz	1-phase 208/230V 60Hz	1-phase 208/230V 60Hz
Cooling capacity *1		BTU/h	15,000	18,000	24,000	30,000
(Nominal) *1		kW	4.4	5.3	7.0	8.8
	Power input	kW	0.04	0.05	0.08	0.08
	Current input	A	0.35	0.45	0.58	0.58
Heating capacity *2		BTU/h	17,000	20,000	27,000	34,000
(Nominal) *2		kW	5.0	5.9	7.9	10.0
	Power input	kW	0.03	0.04	0.08	0.08
	Current input	A	0.30	0.40	0.58	0.58
External finish			Plastic (0.7PB 9.2/0.4)	Plastic (0.7PB 9.2/0.4)	Plastic, MUNSELL (0.7PB 9.2/0.4)	Plastic, MUNSELL (0.7PB 9.2/0.4)
External dimension HxWxD		in.	11-25/32 x 35-3/8 x 9-11/32	11-25/32 x 35-3/8 x 9-11/32	14-3/8 x 46-1/16 x 11-5/8	14-3/8 x 46-1/16 x 11-5/8
		mm	299 x 898 x 237	299 x 898 x 237	365 x 1170 x 295	365 x 1170 x 295
Net weight		lbs (kg)	28.4(12.9)	28.4(12.9)	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)	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	0	0	0
		Pa	0	0	0	0
	Motor Type		DC motor	DC motor	DC motor	DC motor
	Motor output	kW	0.030	0.030	0.069	0.069
	Driving mechanism		Direct-driven	Direct-driven	Direct-driven	Direct-driven
	Air flow rate	cfm	222-261-304-353	240-293-360-438	570-920	710-920
	(Low-Mid2-Mid1-High)	m^3/min	6.3-7.4-8.6-10.0	6.8-8.3-10.2-12.4	16-26	20-26
	(Low-High)	L/s	105-123-143-167	113-138-170-207	267-433	333-433
Sound pressure level (measured in anechoic room)		dB <A>	29-34-37-40	31-36-41-46	39-49	43-49
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			R32/R454B CITY MULTI	R32/R454B CITY MULTI	R32/R454B CITY MULTI	R32/R454B CITY MULTI
Diameter of refrigerant pipe	Liquid	in.(mm)	1/4(6.35)	1/4(6.35)	3/8(9.52) Flare	3/8(9.52) Flare
	Gas	in.(mm)	1/2(12.7)	1/2(12.7)	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)	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	Drain pump kit		PAC-SL48DM-E	PAC-SL48DM-E	PAC-SL48DM-E	PAC-SL48DM-E
	External heater adapter		PAC-YU25HT	PAC-YU25HT	PAC-YU25HT	PAC-YU25HT
	Alarm Kit		PAC-SL54AL-E	PAC-SL54AL-E	PAC-SL54AL-E	PAC-SL54AL-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.			

Note :	*1 Nominal cooling conditions	*2 Nominal heating conditions
Indoor :	80degF D.B. / 67degF W.B.	70degF D.B.
	(26.7degC D.B. / 19.4degC W.B.)	(21.0degC D.B.)
Outdoor :	95degF D.B.	47degF D.B. / 43degF W.B.
	(35degC D.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)

Unit converter
BTU/h = kW x 3,412
cfm = m^3/min x 35.31
lbs = kg / 0.4536
*The specification data is subject to rounding variation.

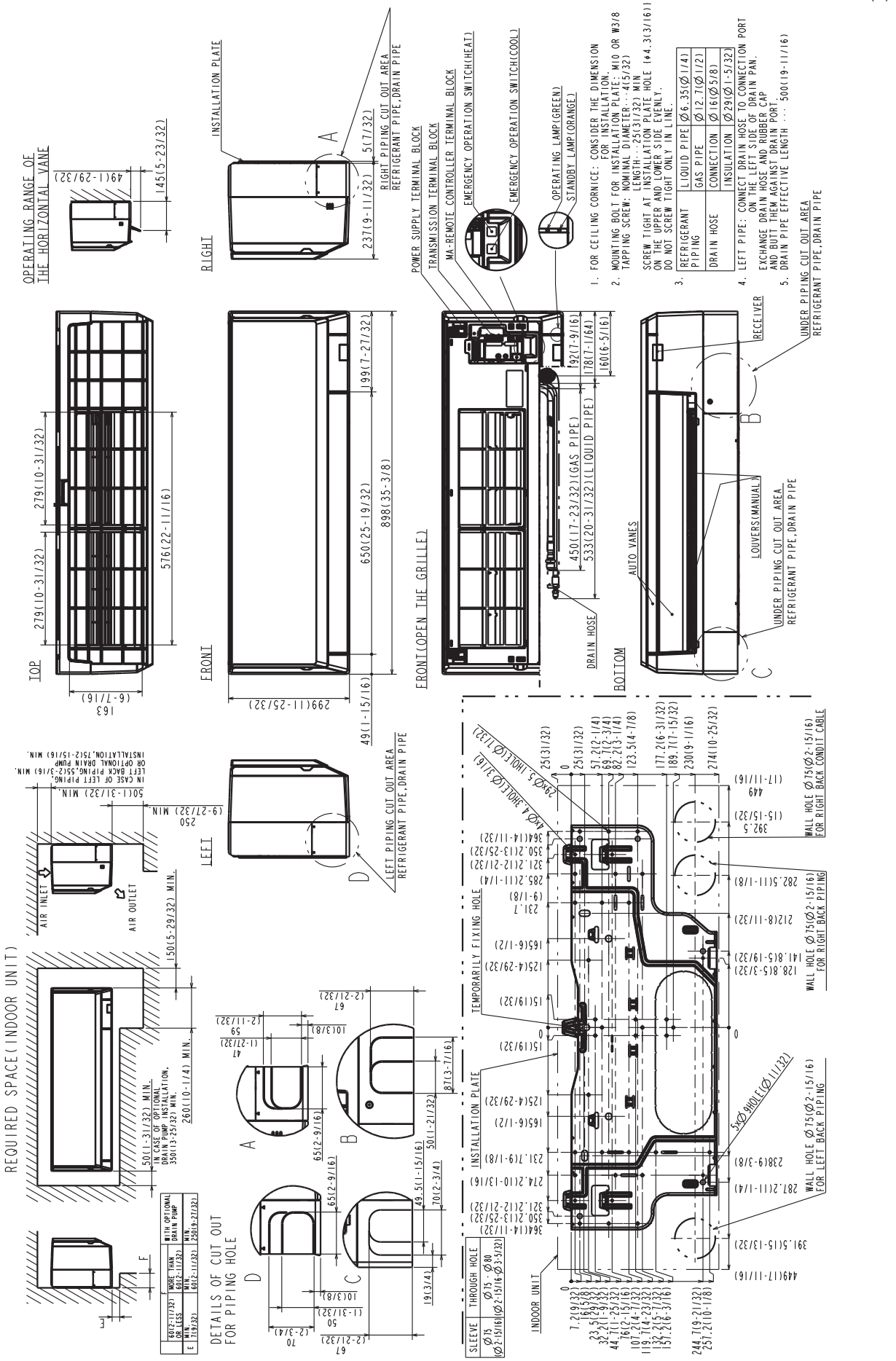
PKFY-M04, 06, 08, 12NLMU-A

Unit: mm (in)



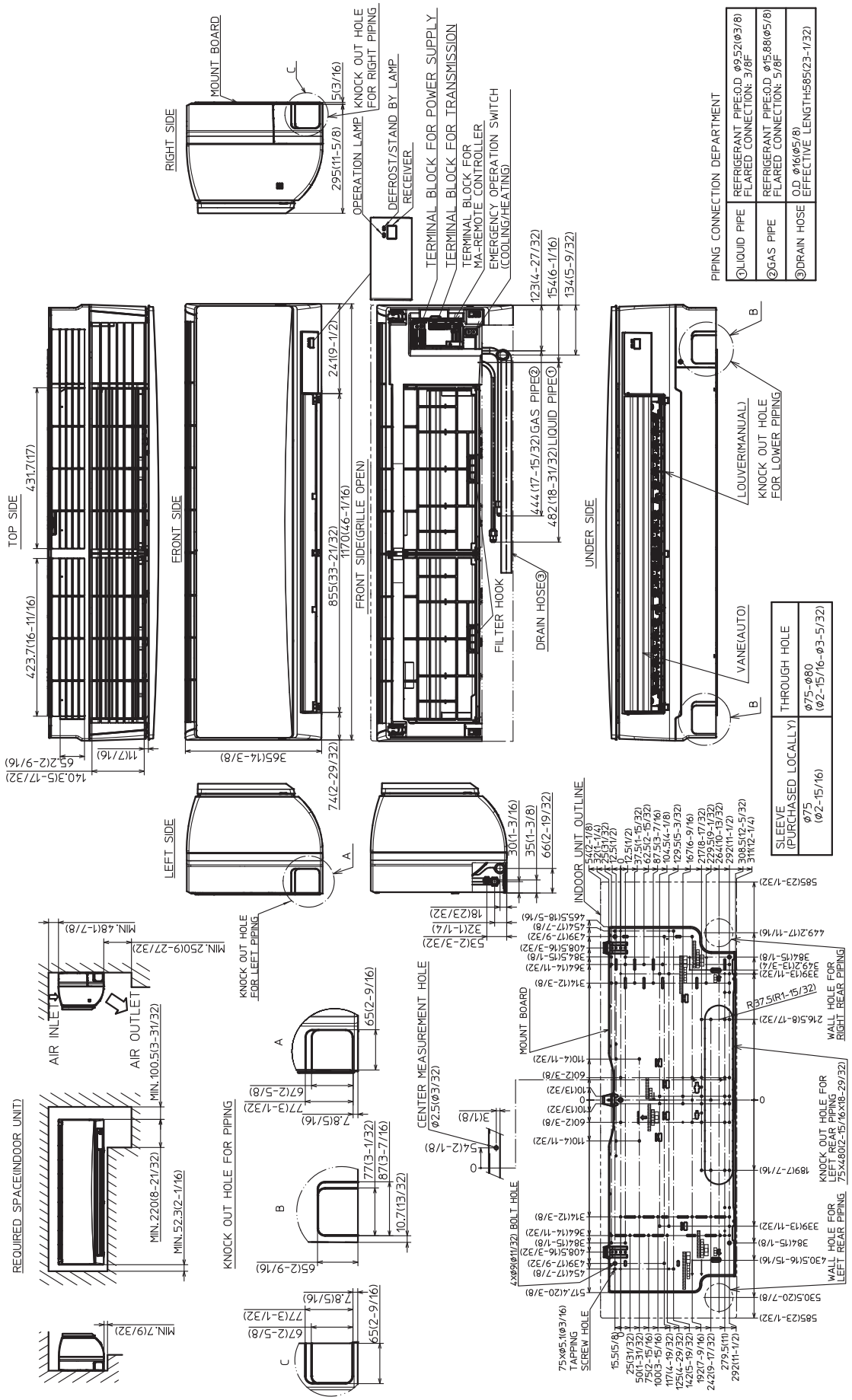
PKFY-M15, 18NLMU-A

Unit: mm (in)

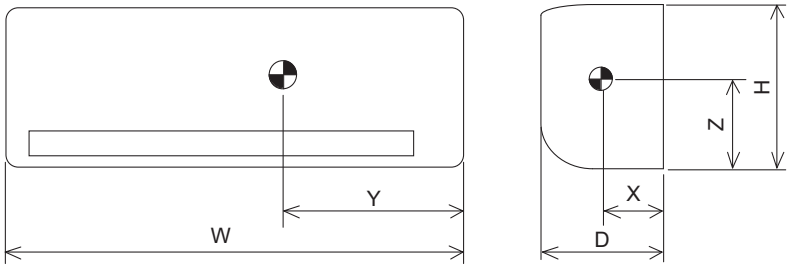


PKFY-M24, 30NKMU-A

Unit: mm (in)



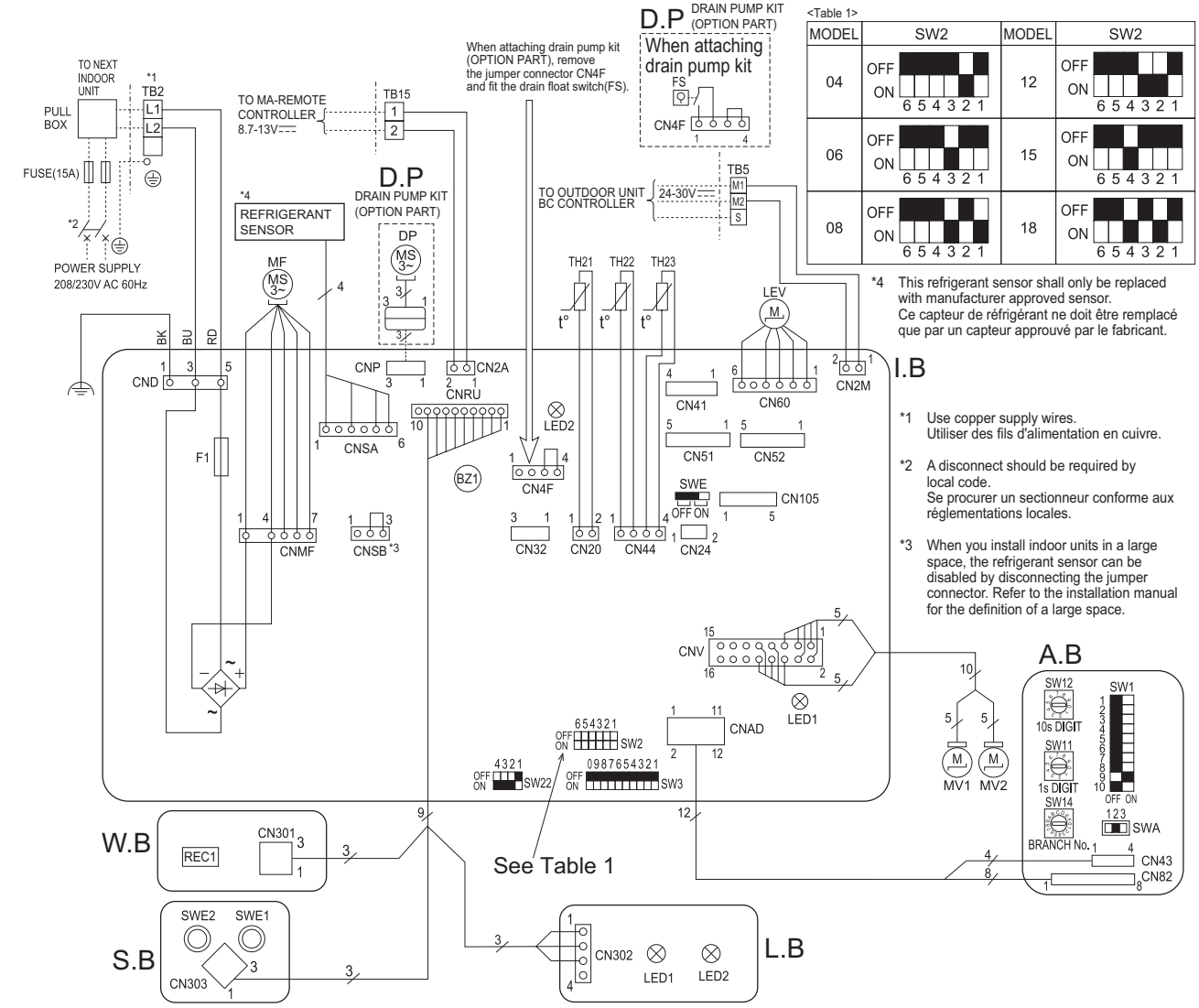
PKFY-M-NLMU-A, NKMU-A



in (mm)

Model	W	D	H	X	Y	Z
PKFY-M04NLMU-A	30-7/16 (773)	9-11/32 (237)	11-25/32 (299)	5-1/8 (130)	13-7/16 (340)	5-15/16 (150)
PKFY-M06NLMU-A	30-7/16 (773)	9-11/32 (237)	11-25/32 (299)	5-1/8 (130)	13-7/16 (340)	5-15/16 (150)
PKFY-M08NLMU-A	30-7/16 (773)	9-11/32 (237)	11-25/32 (299)	5-1/8 (130)	13-7/16 (340)	5-15/16 (150)
PKFY-M12NLMU-A	30-7/16 (773)	9-11/32 (237)	11-25/32 (299)	5-1/8 (130)	13-7/16 (340)	5-15/16 (150)
PKFY-M15NLMU-A	35-3/8 (898)	9-11/32 (237)	11-25/32 (299)	4-3/4 (120)	15-3/8 (390)	5-15/16 (150)
PKFY-M18NLMU-A	35-3/8 (898)	9-11/32 (237)	11-25/32 (299)	4-3/4 (120)	15-3/8 (390)	5-15/16 (150)
PKFY-M24NKMU-A	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-M30NKMU-A	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-M04, 06, 08, 12, 15, 18NLMU-A



<Table 1>

MODEL	SW2	MODEL	SW2
04	OFF / ON 6 5 4 3 2 1	12	OFF / ON 6 5 4 3 2 1
06	OFF / ON 6 5 4 3 2 1	15	OFF / ON 6 5 4 3 2 1
08	OFF / ON 6 5 4 3 2 1	18	OFF / ON 6 5 4 3 2 1

*4 This refrigerant sensor shall only be replaced with manufacturer approved sensor.
Ce capteur de réfrigérant ne doit être remplacé que par un capteur approuvé par le fabricant.

*1 Use copper supply wires.
Utiliser des fils d'alimentation en cuivre.

*2 A disconnect should be required by local code.
Se procurer un sectionneur conforme aux réglementations locales.

*3 When you install indoor units in a large space, the refrigerant sensor can be disabled by disconnecting the jumper connector. Refer to the installation manual for the definition of a large space.

[LEGNED]

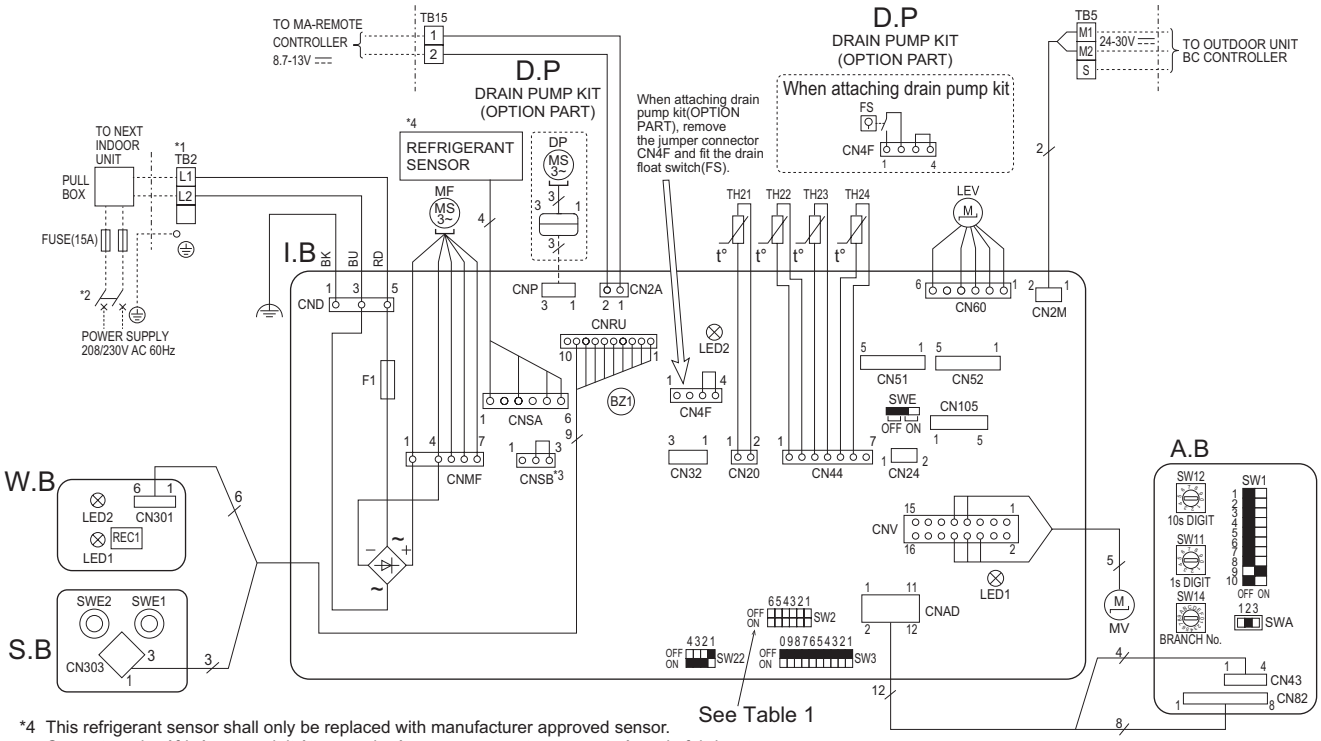
SYMBOL	NAME		SYMBOL	NAME	
I.B	INDOOR CONTROLLER BOARD		TH21	THERMISTOR	ROOM TEMP. DETECTION (0°C / 15kΩ, 25°C / 5.4kΩ)(32°F / 15kΩ, 77°F / 5.4kΩ)
CN24	CONNECTOR	EXTERNAL HEATER			
CN32		REMOTE SWITCH	TH22		PIPE TEMP. DETECTION/LIQUID (0°C / 15kΩ, 25°C / 5.4kΩ)(32°F / 15kΩ, 77°F / 5.4kΩ)
CN51		CENTRALLY CONTROL			
CN52		REMOTE INDICATION	TH23		PIPE TEMP. DETECTION/GAS (0°C / 15kΩ, 25°C / 5.4kΩ)(32°F / 15kΩ, 77°F / 5.4kΩ)
CN105		IT TERMINAL			
BZ1	BUZZER		A.B	ADDRESS BOARD	
F1	FUSE (T3.15AL250V)		SW1	SWITCH	MODE SELECTION
SW2	SWITCH	CAPACITY CODE	SW11		ADDRESS SETTING 1s DIGIT
SW3		MODE SELECTION	SW12		ADDRESS SETTING 10s DIGIT
SW22		PAIR NO. SETTING	SW14		BRANCH No.
SWE		FAN•DRAIN PUMP (TEST MODE)	S.B	SWITCH BOARD	
LEV	LINEAR EXPANSION VALVE		SWE1	EMERGENCY OPERATION (HEAT)	
MF	FAN MOTOR		SWE2	EMERGENCY OPERATION (COOL)	
MV1	VANE MOTOR (UPPER)		W.B	PCB FOR WIRELESS REMOTE CONTROLLER	
MV2	VANE MOTOR (LOWER)		REC1	RECEIVING UNIT	
TB2	TERMINAL BLOCK	POWER SUPPLY	L.B	LED BOARD	
TB5		TRANSMISSION	LED1	LED (OPERATING INDICATOR:GREEN)	
TB15		MA-REMOTE CONTROLLER	LED2	LED (STANDBY FOR HEATING:ORANGE)	
			D.P	DRAIN PUMP KIT (OPTIONAL PARTS)	
			FS	DRAIN FLOAT SWITCH	
			DP	DRAIN PUMP	

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 are,
   □□□:terminal block, ○○○ □□□□:connector.
6. The setting of the SW2 dip switches differs in the capacity. For the detail, see Table 1.
7. The black square (■) in the wiring diagram indicates a switch position.

LED on indoor controller board for service

Symbol	Meaning	Function
LED1	Main power supply	Main power supply (Indoor unit:208/230V AC 60Hz) Power on → lamp is lit
LED2	Power supply for MA-Remote controller	Power supply for MA-Remote controller on → lamp is lit

PKFY-M24, 30NKMU-A



*4 This refrigerant sensor shall only be replaced with manufacturer approved sensor.
Ce capteur de réfrigérant ne doit être remplacé que par un capteur approuvé par le fabricant.

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. Symbol [S] of TB5 is the shield wire connection.
4. Symbols used in wiring diagram are,
   □□□:terminal block, ○○○, □□□□:connector.
5. The setting of the SW2 dip switches differs in the capacity. For the detail, see Table 1.
6. The black square(■)in the wiring diagram indicates a switch position.

*1 Use copper supply wires.
Utiliser des fils d'alimentation en cuivre.
*2 A disconnect should be required by local code.
Se procurer un sectionneur conforme aux réglementations locales.
*3 When you install indoor units in a large space, the refrigerant sensor can be disabled by disconnecting the jumper connector. Refer to the installation manual for the definition of a large space.

<Table 1>

MODEL	SW2
24	OFF ON 654321
30	OFF ON 654321

[LEGEND]

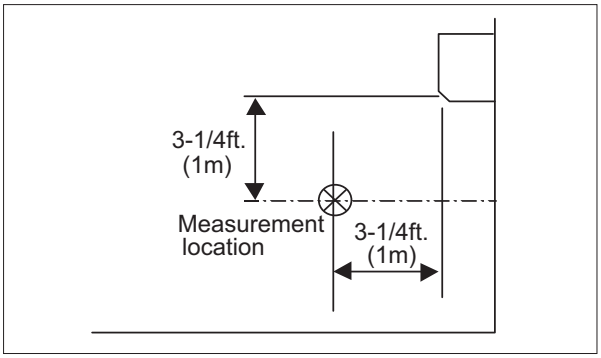
SYMBOL	NAME		SYMBOL	NAME	
I.B	INDOOR CONTROLLER BOARD		TH23	THERMISTOR	PIPE TEMP. DETECTION/GAS1 (0ºC/15kΩ, 25ºC/5.4kΩ) (32ºF/15kΩ, 77ºF/5.4KΩ)
CN24	CONNECTOR	EXTERNAL HEATER			
CN32		REMOTE SWITCH			
CN51		CENTRALLY CONTROL	TH24		PIPE TEMP. DETECTION/GAS2 (0ºC/15kΩ, 25ºC/5.4kΩ) (32ºF/15kΩ, 77ºF/5.4KΩ)
CN52		REMOTE INDICATION			
CN105	IT TERMINAL				
BZ1	BUZZER		A.B	ADDRESS BOARD	
F1	FUSE(T3.15AL 250V)		SWA	SWITCH	FAN SPEED SELECTOR
SW2	SWITCH	CAPACITY CODE	SW1		MODE SELECTION
SW3		MODE SELECTION	SW11		ADDRESS SETTING 1s DIGIT
SW22		PAIR NO. SETTING	SW12		ADDRESS SETTING 10s DIGIT
SWE		DRAIN PUMP(TEST MODE)	SW14		BRANCH No.
LEV	LINEAR EXPANSION VALVE		S.B	SWITCH BOARD	
MF	FAN MOTOR		SWE1	EMERGENCY OPERATION(HEAT)	
MV	VANE MOTOR		SWE2	EMERGENCY OPERATION(COOL)	
TB2	TERMINAL BLOCK	POWER SUPPLY	W.B	PCB FOR WIRELESS REMOTE CONTROLLER	
TB5		TRANSMISSION	LED1	LED(OPERATION INDICATOR:GREEN)	
TB15		MA-REMOTE CONTROLLER	LED2	LED(PREPARATION FOR HEATING:ORANGE)	
TH21	THERMISTOR	ROOM TEMP. DETECTION (0ºC/15kΩ, 25ºC/5.4kΩ) (32ºF/15kΩ, 77ºF/5.4KΩ)	REC1	RECEIVING UNIT	
			D.P	DRAIN PUMP KIT(OPTIONAL PARTS)	
TH22		PIPE TEMP. DETECTION/LIQUID (0ºC/15kΩ, 25ºC/5.4kΩ) (32ºF/15kΩ, 77ºF/5.4KΩ)	DP	DRAIN PUMP	
			FS	DRAIN FLOAT SWITCH	

LED on indoor board for service

Mark	Meaning	Function
LED1	Main power supply	Main power supply(Indoor unit:208/230V AC 60Hz) 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



* Measured in anechoic room.

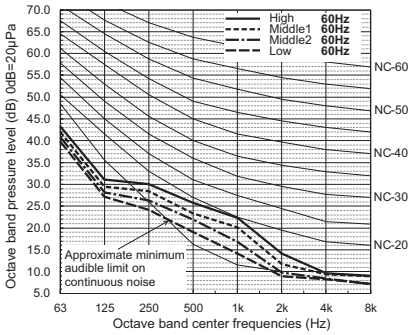
Sound level at anechoic room: Low-(Middle2-Middle1)-High

Model	Sound level dB (A)
PKFY-M04NLMU-A	22-24-26-28
PKFY-M06NLMU-A	22-26-29-31
PKFY-M08NLMU-A	22-27-31-35
PKFY-M12NLMU-A	24-31-37-41
PKFY-M15NLMU-A	29-34-37-40
PKFY-M18NLMU-A	31-36-41-46
PKFY-M24NKMU-A	39-49
PKFY-M30NKMU-A	43-49

5-2. NC curves

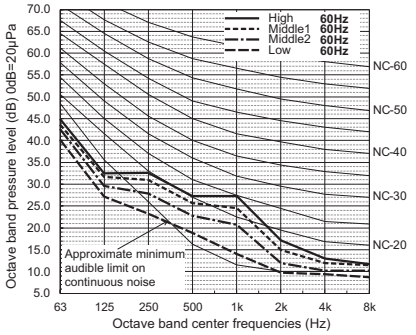
PKFY-M04NLMU-A

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



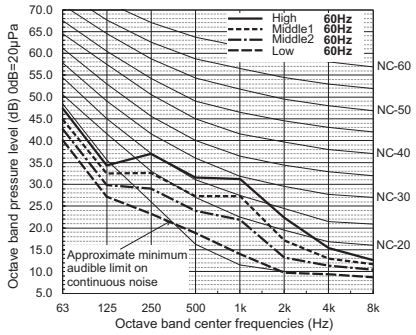
PKFY-M06NLMU-A

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



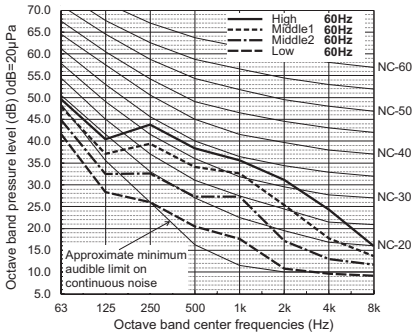
PKFY-M08NLMU-A

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



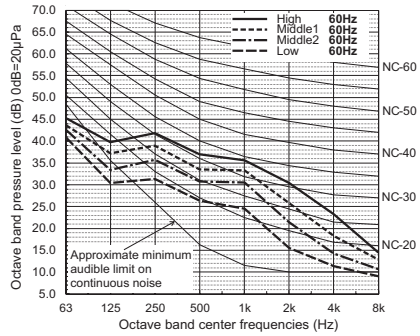
PKFY-M12NLMU-A

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



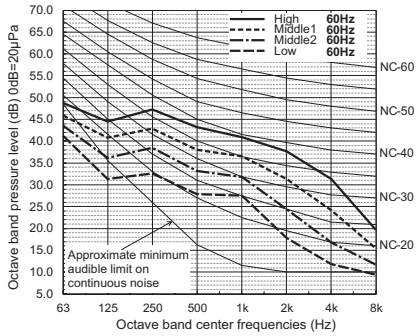
PKFY-M15NLMU-A

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



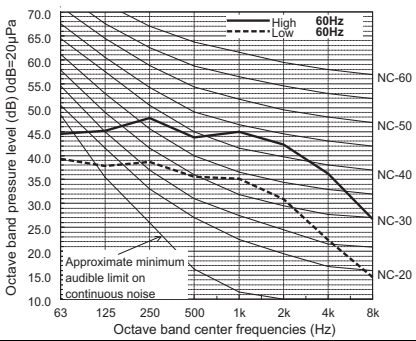
PKFY-M18NLMU-A

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



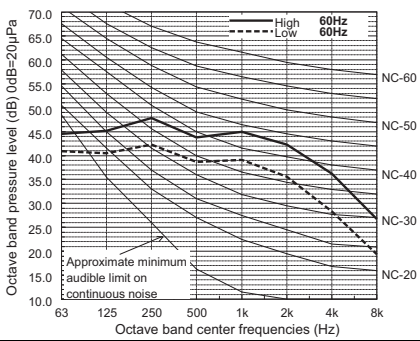
PKFY-M24NKMU-A

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



PKFY-M30NKMU-A

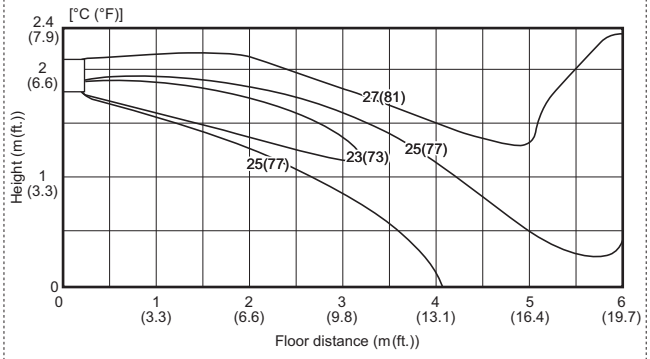
External Static Pressure: 0Pa [0.00 in.WG]
Power Source: 208-230V, 60Hz



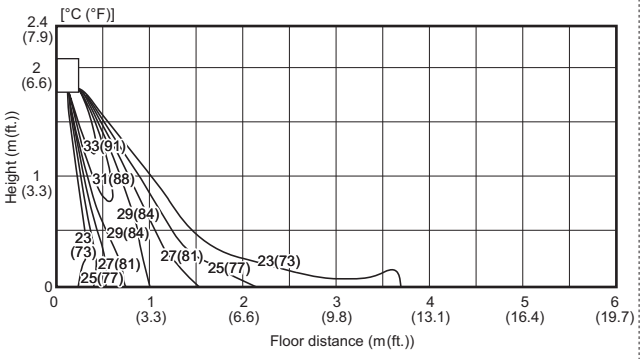
6-1. Temperature distributions

PKFY-M12NLMU-A

<Cooling mode>
Horizontal air flow

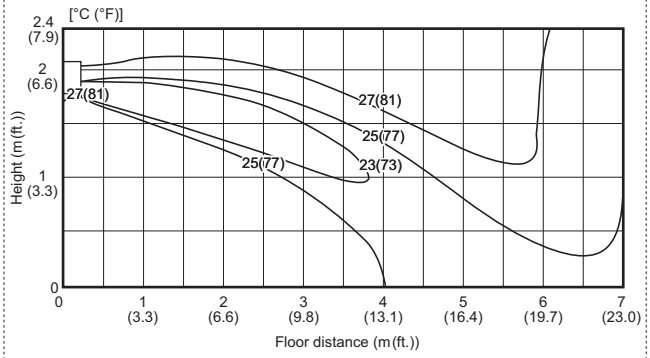


<Heating mode>
Downward air flow

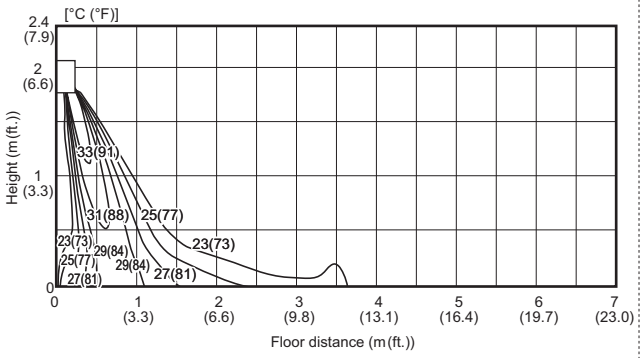


PKFY-M18NLMU-A

<Cooling mode>
Horizontal air flow

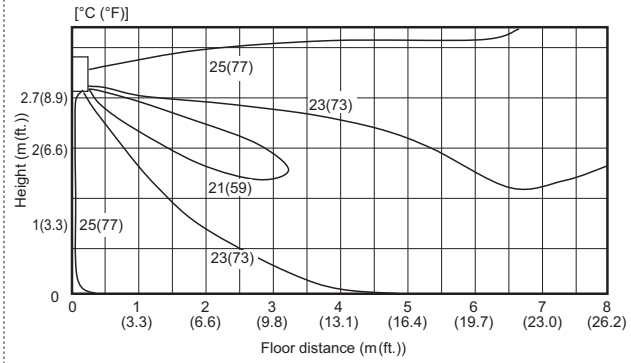


<Heating mode>
Downward air flow

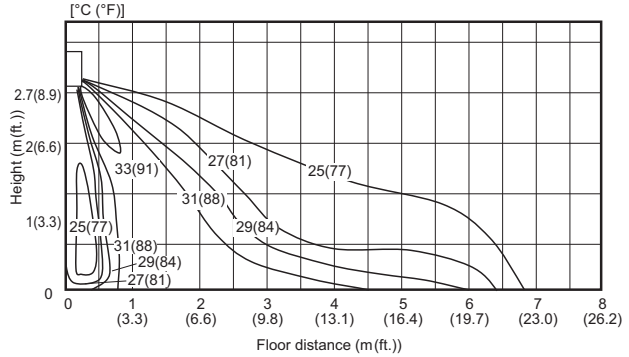


PKFY-M24, 30NKMU-A

<Cooling mode>
Horizontal air flow



<Heating mode>
Downward air flow

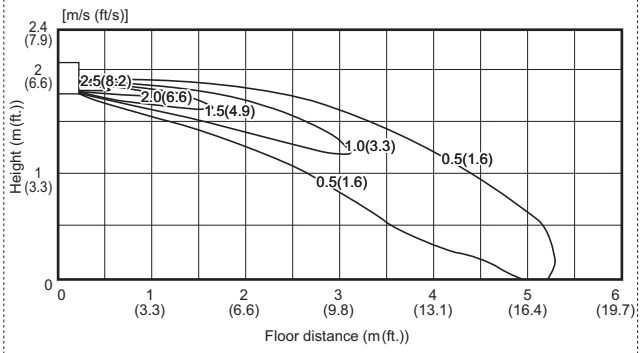


Note: These figures show typical temperature distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

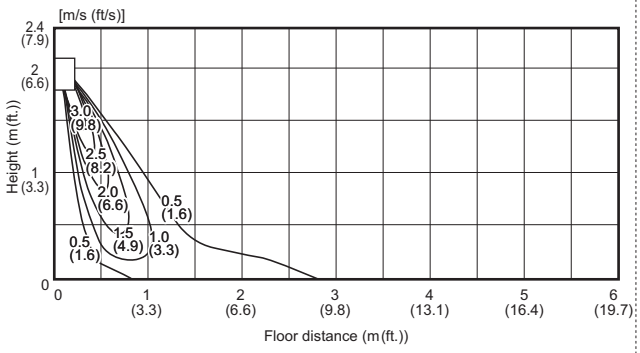
6-2. Airflow distributions

PKFY-M12NLMU-A

<Cooling mode>
Horizontal air flow

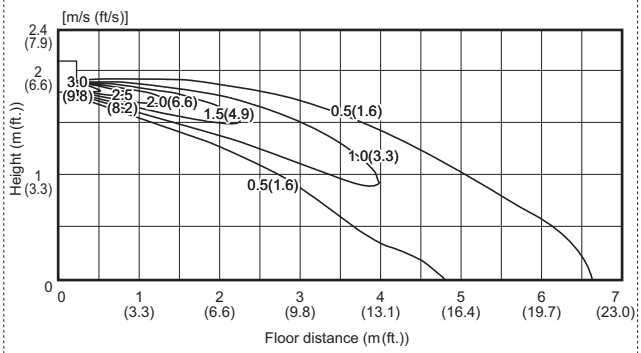


<Heating mode>
Downward air flow

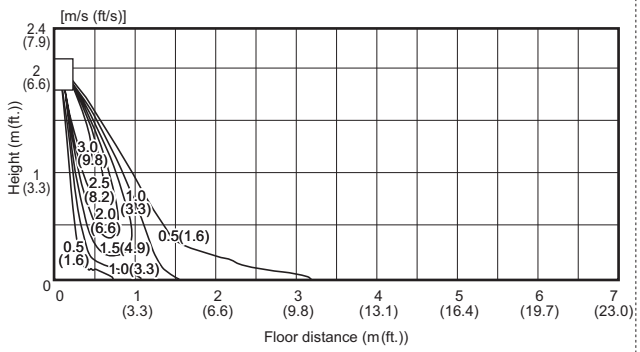


PKFY-M18NLMU-A

<Cooling mode>
Horizontal air flow

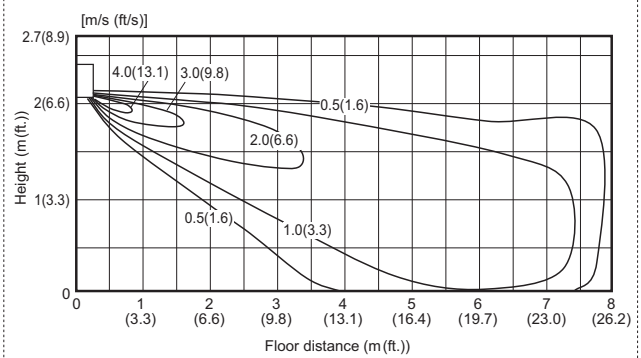


<Heating mode>
Downward air flow

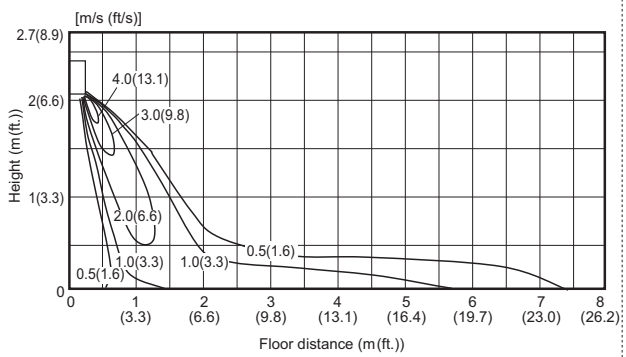


PKFY-M24, 30NKMU-A

<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.

Symbols: MCA: Minimum Circuit Ampacity (=1.25xFLA) FLA: Full Load Amps
IFM: Indoor Fan Motor Output: Fan motor rated output

Model	Indoor Unit				IFM	
	Hz	Volts	Voltage range	MCA (A)	Output (kW)	FLA (A)
PKFY-M04NLMU-A	60Hz	208/230V	187 to 253V	0.24	0.030	0.19
PKFY-M06NLMU-A				0.24	0.030	0.19
PKFY-M08NLMU-A				0.24	0.030	0.19
PKFY-M12NLMU-A				0.24	0.030	0.19
PKFY-M15NLMU-A				0.24	0.030	0.19
PKFY-M18NLMU-A				0.24	0.030	0.19
PKFY-M24NKMU-A			187 to 253V	0.34	0.069	0.27
PKFY-M30NKMU-A				0.34	0.069	0.27

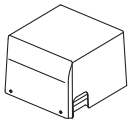
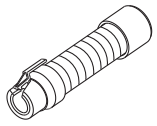
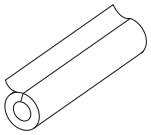
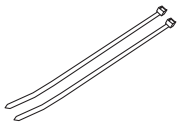
8-1. Optional parts line up for the Indoor unit

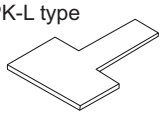
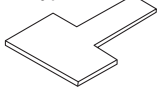
	Drain pump kit	External heater adapter	Alarm Kit	Power Supply Interface for Alarm Kit
PKFY-M04, 06, 08, 12, 15, 18NLMU-A PKFY-M24, 30NKMU-A	PAC-SL48DM-E	PAC-YU25HT	PAC-SL54AL-E	PAC-IF55AL-E

8-2. Drain pump kit

PAC-SL48DM-E

If drain water can not flow out the Indoor unit by gravity and gradient, a Drain-pump for draining is needed.
Drain pump PAC-SL48DM-E can pump water up to 850mm [33-1/2 in.] high from the drain pan.

Item	1 Drain pump	2 Screw	3 Drain hose	4 Flexible hose cover	5 Band
Quantity	1	(M4×16)×1, (M4×35)×6	1	1	2
Shape					

Item	6 Paper gauge	
Quantity	1	1
Shape	PK-L type 	PK-K type 

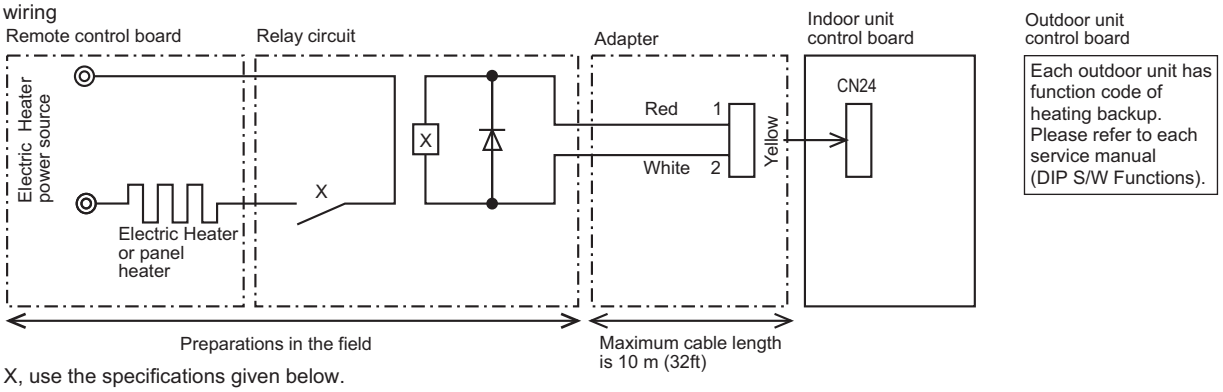
Detailed installation information should be referred to its Installation Manual.

8-3. 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.)

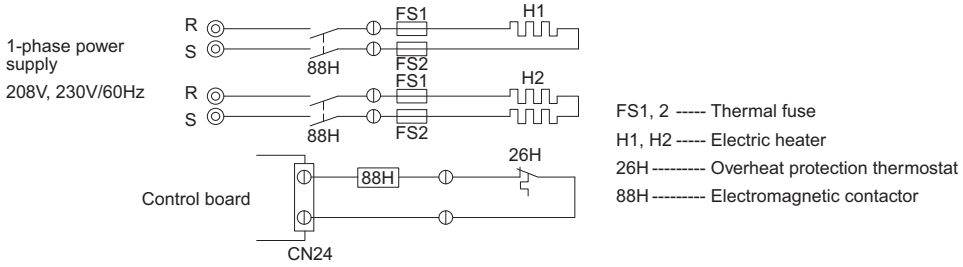
(1) Basic wiring

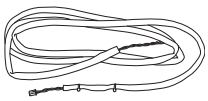
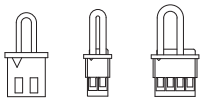


For relay X, use the specifications given below.
- Operation coil
- Rated voltage: 12VDC
- Power consumption: 0.9W or less
- * Use the diode that is recommended by the relay manufacturer at both ends of the relay coil.

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 mm^2 ~ 1.25 mm^2 (16 to 22 AWG)
- Don't extend the cable more than 10 meters (32ft).

(2) Recommended circuit

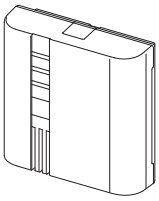
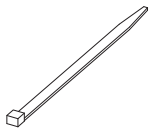


Item	① External output cable	② Connector (for use with the panel heater)	
Quantity	2	3	
Shape			

Wiring details and Installation details should be referred to its Installation Manual.

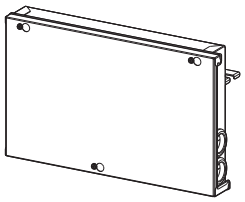
8-4. Alarm Kit

PAC-SL54AL-E

Use both Alarm Kit and Power Supply Interface to notice refrigerant leakage by the alarm beeping.			
Item	1 Body	2 Fixing screw	3 Cable tie
Quantity	1	2	1
Shape			

8-5. Power Supply Interface for Alarm Kit

PAC-IF55AL-E

Use both Alarm Kit and Power Supply Interface to notice refrigerant leakage by the alarm beeping.			
Item	1 Power Supply Interface for Alarm Kit	2 Fastener	3 Washer
Quantity	1	4	4
Shape			

⚠Warning

■ Do not use refrigerant other than the type indicated in the manuals provided with the unit and on the nameplate.
- Doing so may cause the unit or pipes to burst, or result in explosion or fire during use, repair, or at the time of disposal of the unit.
- It may also be in violation of applicable laws.
- MITSUBISHI ELECTRIC CORPORATION cannot be held responsible for malfunctions or accidents resulting from the use of the wrong type of refrigerant.

■ Our air conditioning equipment and heat pumps contain a fluorinated greenhouse gas, R32/R454B.

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