

AIR CONDITIONING SYSTEMS

HYBRID
CITY MULTI

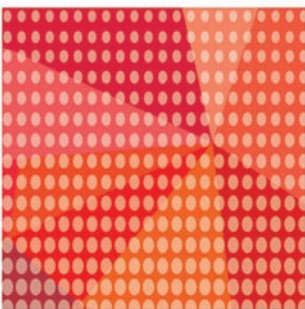


DATA BOOK

MODEL

PKFY-WL-NLMU-E

PKFY-WL-NKMU-E



PKFY-WL-NLMU-E, PKFY-WL-NKMU-E

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1. SPECIFICATIONS

Wall mounted

PKFY-WL-NLMU-E, NKMU-E

Model				PKFY-WL04NLMU-E	PKFY-WL06NLMU-E	PKFY-WL08NLMU-E	PKFY-WL12NLMU-E		
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		
		*1	kW	1.1	1.8	2.3	3.5		
		Power input		kW	0.02	0.03	0.04	0.04	
Heating capacity		Current input		A	0.20	0.25	0.35		
		*2	BTU/h	4,500	6,700	9,000	13,500		
		*2	kW	1.3	2.0	2.6	4.0		
Power input		kW	0.01	0.02	0.03	0.03			
Current input		A	0.15	0.20	0.30	0.30			
External finish				Plastic, MUNSELL (0.7PB 9.2/0.4)	Plastic, MUNSELL (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			inch	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 35-3/8 x 9-11/32		
			mm	299×773×237	299×773×237	299×773×237	299×898×237		
Net weight			lbs (kg)	25(11)	25(11)	25(11)	29(13)		
Heat exchanger				Cross fin (Aluminum fin and copper tube)					
				Water Volume		L	0.6	0.7	0.7
FAN		Type x Quantity		Line flow fan x 1					
		External static press.		in.WG	0	0	0	0	
				Pa	0	0	0		
		Motor Type		DC motor					
		Motor output		kW	0.030	0.030	0.030		
		Driving mechanism		Direct-driven					
Air flow rate		(Low-Mid2-Mid1-High)							
		cfm		117-134-145-159	141-177-212-247	141-191-247-297	222-268-318-367		
		m ³ /min		3.3 - 3.8 - 4.1 - 4.5	4.0 - 5.0 - 6.0 - 7.0	4.0 - 5.4 - 7.0 - 8.4	6.3 - 7.6 - 9.0 - 10.4		
		L/s		55-63-68-75	67-83-100-117	67-90-117-140	105-127-150-173		
Sound pressure level (measured in anechoic room)				(Low-Mid2-Mid1-High)					
		dB <A>		22-26-28-30	22-28-33-36	22-30-36-41	29-34-38-41		
Insulation material				Polyethylene sheet					
Air filter				PP honeycomb					
Protection device				Fuse					
Refrigerant control device				-					
Connectable HBC controller				CMB-WP-NU-AA, CMB-WP- NU-AB					
Water piping diameter *3, 4		Connection size		Inlet	mm O.D.	22	22	22	22
				Outlet	mm O.D.	22	22	22	22
		Field pipe size		Inlet	mm I.D.	20	20	20	20
				Outlet	mm I.D.	20	20	20	20
Field drain pipe size			inch (mm)	I.D.5/8 (16)	I.D.5/8 (16)	I.D.5/8 (16)	I.D.5/8 (16)		
Drawing		External		VK01B214					
		Wiring		VG79N339					
		Refrigerant cycle		-					
Standard attachment		Document		Installation Manual, Instruction Book					
		Accessory		Mount board,Screw,Felt tape, L-shape connection pipe, l-shape connection pipe, Insulation,Tie band					
Optional parts		Drain pump		PAC-SK01DM-E					
		External heater adapter		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 :	Unit converter
1.Nominal cooling conditions Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.) Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)	BTU/h = kW x 3.412 cfm = m ³ /min x 35.31 lbs = kg/0.4536
2.Nominal heating conditions Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.) Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)	
3.Be sure to install a valve on the water inlet/outlet.	
4.Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.	*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Wall mounted

PKFY-WL-NLUMU-E, NKMU-E

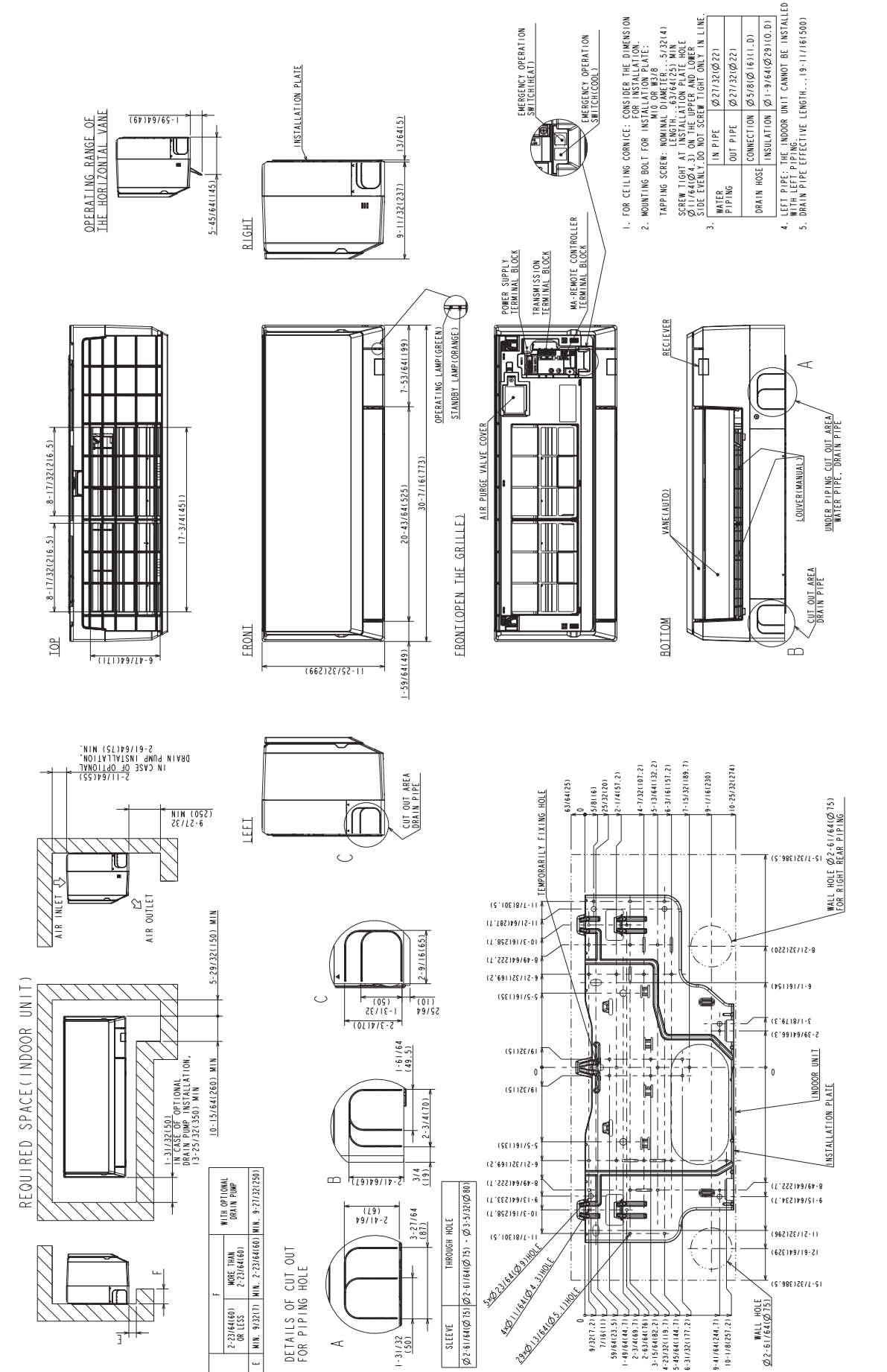
Model			PKFY-WL15NLUMU-E	PKFY-WL18NKMU-E	PKFY-WL24NKMU-E	PKFY-WL30NKMU-E	
Power source			1-phase 208/230V 60Hz	1-phase 208/230V 60Hz	1-phase 208/230V 60Hz	1-phase 208/230V 60Hz	
Cooling capacity	*1	BTU/h	15,000	18,000	24,000	30,000	
		kW	4.4	5.3	7.0	8.8	
	Power input	kW	0.05	0.04	0.05	0.07	
		Current input	A	0.45	0.46	0.56	0.76
Heating capacity	*2	BTU/h	17,000	20,000	27,000	34,000	
		kW	5.0	5.9	7.9	10.0	
	Power input	kW	0.04	0.04	0.05	0.07	
		Current input	A	0.40	0.40	0.50	0.70
External finish			Plastic, MUNSELL (0.7PB 9.2/0.4)	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		inch	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	14-3/8 x 46-1/16 x 11-5/8	
		mm	299×898×237	365×1170×295	365×1170×295	365×1170×295	
Net weight		lbs (kg)	29(13)	44(20)	44(20)	44(20)	
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)	
		Water Volume	L	1.1	2.0	2.0	2.0
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	0.069	0.069	0.069	
	Driving mechanism		Direct-driven	Direct-driven	Direct-driven	Direct-driven	
	Air flow rate			(Low-Mid2-Mid1-High)	(Low-High)	(Low-High)	(Low-High)
cfm			226-290-353-420	636-706	636-777	636-918	
		m ³ /min		6.4 - 8.2 - 10.0 - 11.9	18-20	18-22	18-26
L/s		107-137-167-198	300-333	300-367	300-433		
Sound pressure level (measured in anechoic room)				(Low-Mid2-Mid1-High)	(Low-High)	(Low-High)	
		dB <A>		30-36-41-45	39-42	39-45	39-49
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			-	-	-	-	
Connectable HBC controller			CMB-WP-NU-AA, CMB-WP- NU-AB	CMB-WP-NU-AA, CMB-WP- NU-AB	CMB-WP-NU-AA, CMB-WP- NU-AB	CMB-WP-NU-AA, CMB-WP- NU-AB	
Water piping diameter *3, 4	Connection size	Inlet	mm O.D.	22	22	22	22
		Outlet	mm O.D.	22	22	22	22
	Field pipe size	Inlet	mm I.D.	20	20	30	30
		Outlet	mm I.D.	20	20	30	30
Field drain pipe size		inch (mm)	I.D.5/8 (16)	I.D.5/8 (16)	I.D.5/8 (16)	I.D.5/8 (16)	
Drawing	External		VK01B215	VK01B216	VK01B216	VK01B216	
	Wiring		VG79N339	VG79N333	VG79N333	VG79N333	
	Refrigerant cycle		-	-	-	-	
Standard attachment	Document		Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book	
	Accessory		Mount board, Screw, Felt tape, L-shape connection pipe, I-shape connection pipe, Insulation, Tie band	Mount board, Screw, Felt tape, L-shape connection pipe, I-shape connection pipe, Insulation, Tie band	Mount board, Screw, Felt tape, L-shape connection pipe, I-shape connection pipe, Insulation, Tie band	Mount board, Screw, Felt tape, L-shape connection pipe, I-shape connection pipe, Insulation, Tie band	
Optional parts	Drain pump		PAC-SK01DM-E	PAC-SK19DM-E	PAC-SK19DM-E	PAC-SK19DM-E	
	External heater adapter		PAC-YU25HT	PAC-YU25HT	PAC-YU25HT	PAC-YU25HT	
Remarks			* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. * Due to continuing improvement, above specification may be subject to change without notice.				

Note :	Unit converter
1.Nominal cooling conditions Indoor: 80°F.D.B./67°F.W.B. (26.7°C.D.B./19.4°C.W.B.), Outdoor: 95°F.D.B. (35°C.D.B.) Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)	BTU/h = kW x 3,412 cfm = m ³ /min x 35.31 lbs = kg/0.4536
2.Nominal heating conditions Indoor: 70°F.D.B. (21.1°C.D.B.), Outdoor: 47°F.D.B./43°F.W.B. (8.3°C.D.B./6.1°C.W.B.) Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)	
3.Be sure to install a valve on the water inlet/outlet.	*Above specification data is subject to rounding variation.
4.Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.	

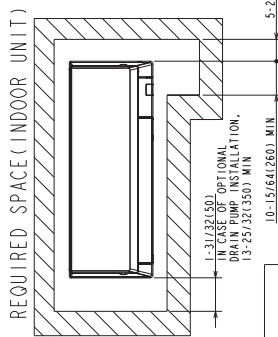
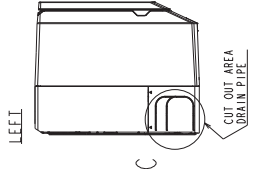
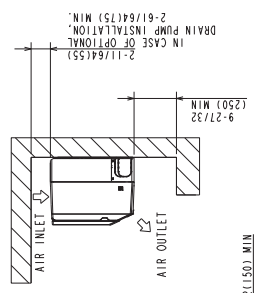
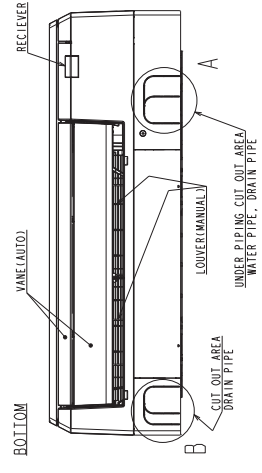
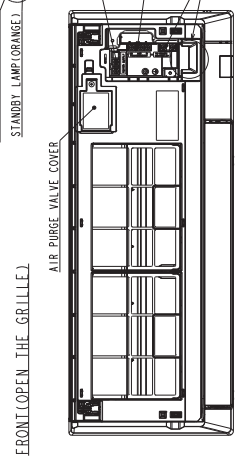
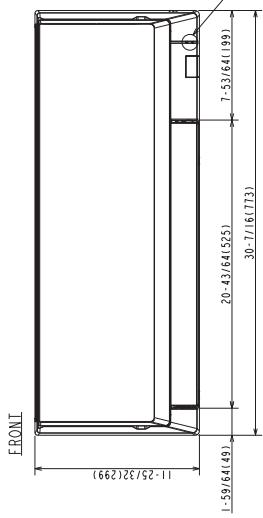
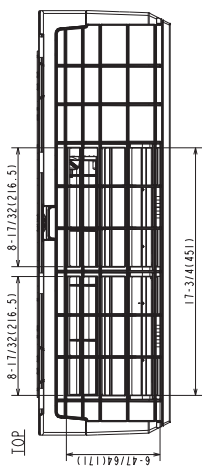
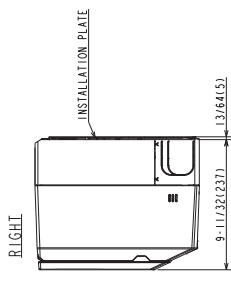
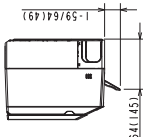
PKFY-WL04, 06, 08NLMU-E

Unit: in (mm)

PKFY-WL-NLMU-E, NKMU-E

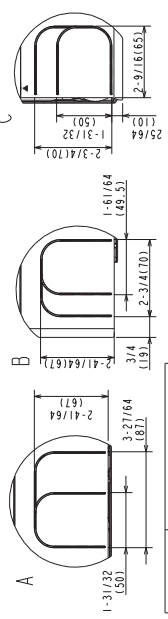


OPERATING RANGE OF THE HORIZONTAL VANE

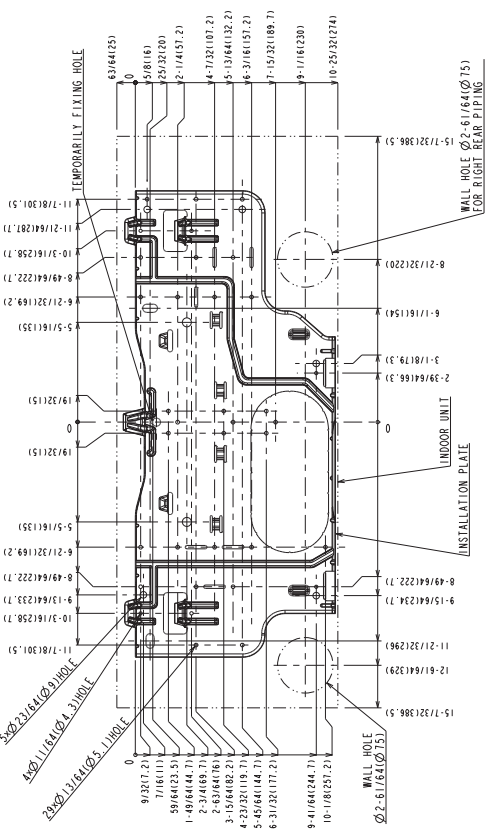


F	WITH OPTIONAL DRAIN PUMP
2-23/64(60)	2-23/64(60)
OR LESS	2-23/64(60)
E	MIN. 9/32(17)
	MIN. 2-23/64(60)
	MIN. 9-27/32(250)

DETAILS OF CUT OUT FOR PIPING HOLE



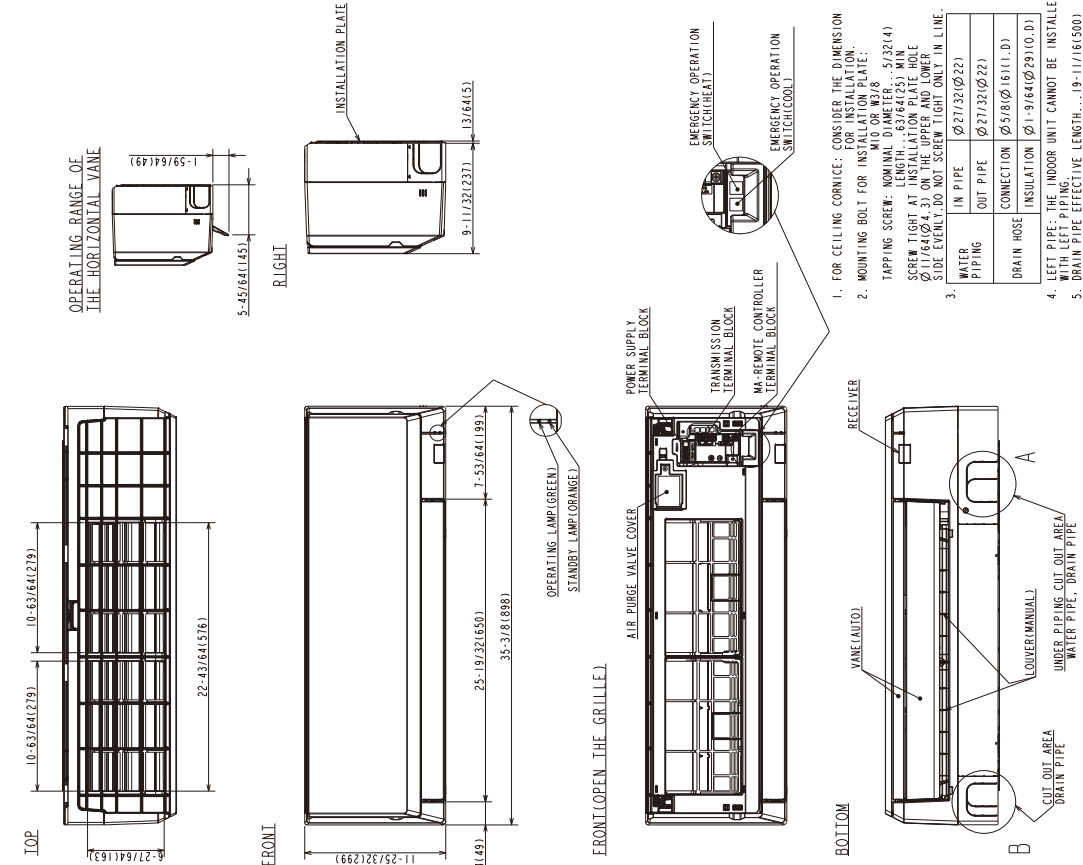
SLEEVE	THROUGH HOLE
Ø 2-61/64(Ø 15)	Ø 2-61/64(Ø 15) · Ø 3-43/32(Ø 80)



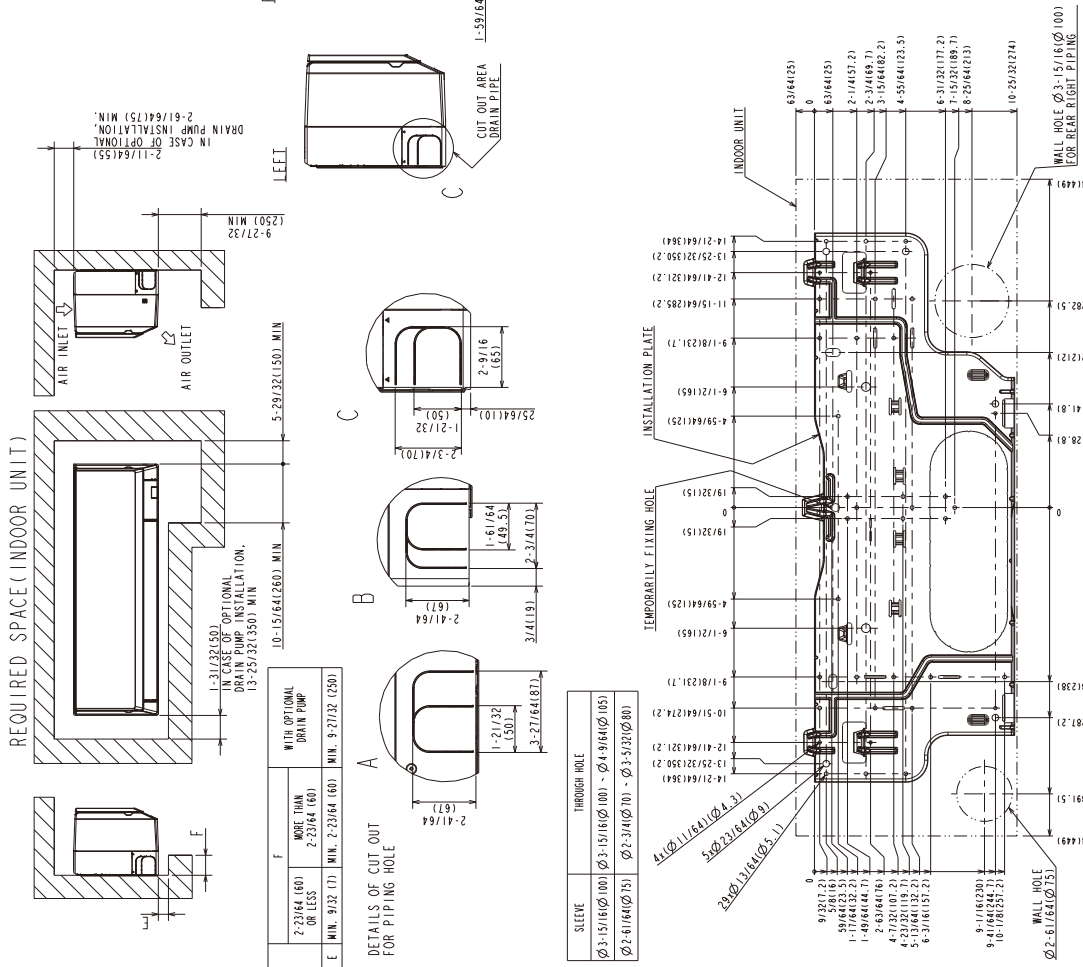
- FOR CEILING CORNICE: CONSIDER THE DIMENSION FOR INSTALLATION.
- MOUNTING BOLT FOR INSTALLATION PLATE:
TAPPING SCREW: NOMINAL SIZE M10 OR M18
SCREW TIGHT AT LENGTH 1.5(38.4) M
SIDE EVENLY. DO NOT SCREW TIGHT ONLY IN LINE.
- WATER PIPING IN PIPE Ø 27.32(Ø 22)
OUT PIPE Ø 27.32(Ø 22)
CONNECTION Ø 5/8(Ø 16.1(1.0))
INSULATION Ø 1-9/64(Ø 23(0.9))
- LEFT PIPE: THE INDOOR UNIT CANNOT BE INSTALLED WITH LEFT PIPING.
- DRAIN PIPE EFFECTIVE LENGTH... 19-11/16(500)

PKFY-WL12, 15NLMU-E

Unit: in (mm)



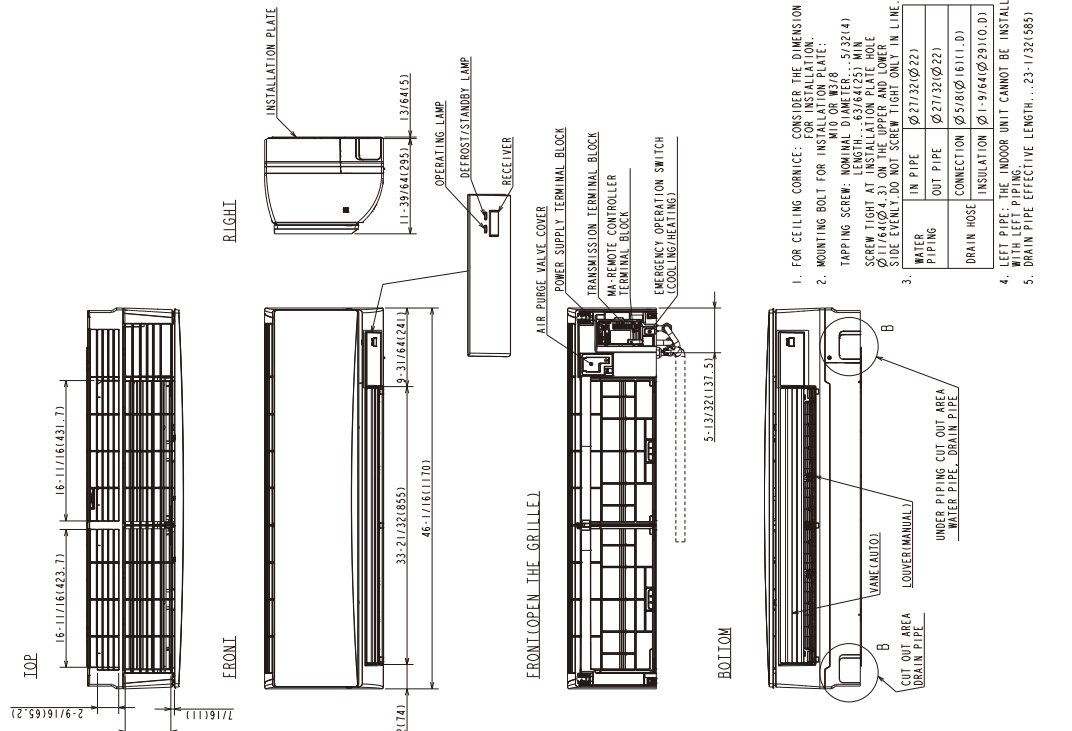
1. FOR CEILING CORNICE: CONSIDER THE DIMENSION FOR INSTALLATION.
2. MOUNTING BOLT FOR INSTALLATION: MATERIAL: Q235; TYPE: M6; LENGTH: 10; UNIT: mm.
3. SCREW TIGHT AT INSTALLATION PLATE HOLE SIDE. SCREW DO NOT SCREW TIGHT ON LINE.
4. LEFT PIPE: THE INDOOR UNIT CANNOT BE INSTALLED WITH LEFT PIPING.
5. DRAIN PIPE EFFECTIVE LENGTH... 19-1/16(500)



PKFY-WL18, 24, 30NKMU-E

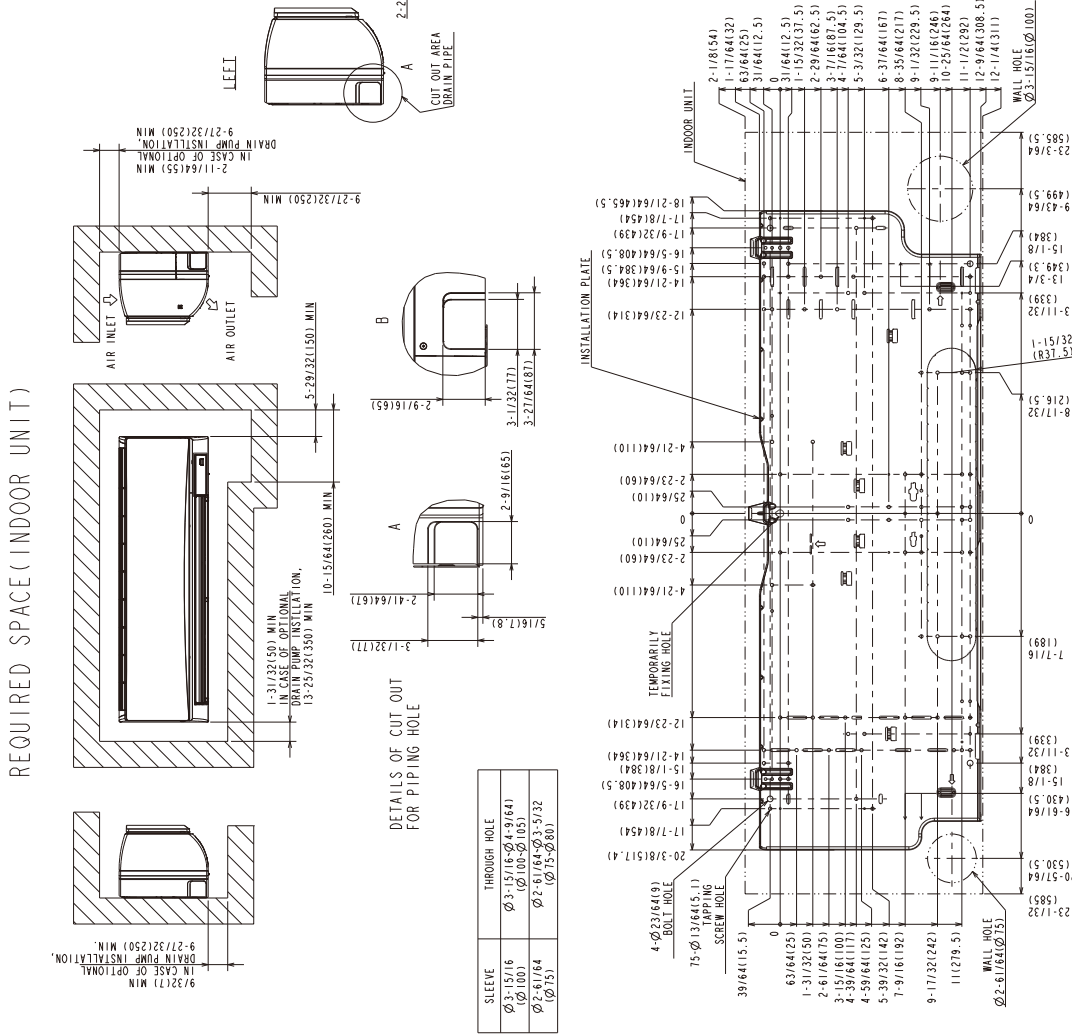
Unit : in (mm)

PKFY-WL-NLMU-E, NKMU-E



1. FOR CEILING CORNICE: CONSIDER THE DIMENSION FOR INSTALLATION.
2. MOUNTING BOLT FOR INSTALLATION PLATE:
MATERIAL: STAINLESS STEEL OR SUS
TAPPING SCREW: NOMINAL DIAMETER: $\phi 3/32(4)$
LENGTH: $\phi 3/8(25)$ MIN
SCREW TIGHT AT INSTALLATION PLATE HOLE SIDE EVENLY DO NOT SCREW TIGHT ONLY IN LINE.
3.

WATER PIPING	IN PIPE $\phi 27/32(\phi 22)$
OUT PIPE	$\phi 27/32(\phi 22)$
CONNECTION	$\phi 5/8(\phi 15.11.0)$
DRAIN HOSE	$\phi 1-9/64(\phi 29.10.0)$
INSULATION	$\phi 1-9/64(\phi 29.10.0)$
4. LEFT PIPE: THE INDOOR UNIT CANNOT BE INSTALLED WITH LEFT PIPING.
5. DRAIN PIPE EFFECTIVE LENGTH...23-1/32(585)

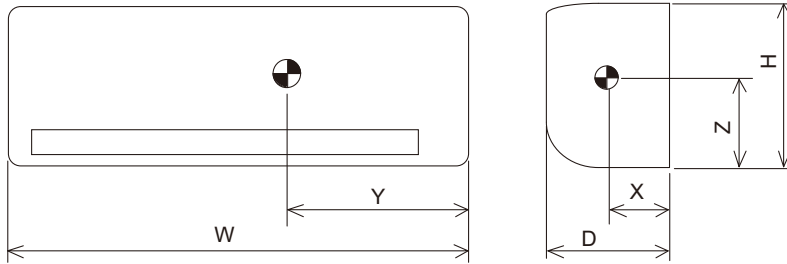


REQUIRED SPACE (INDOOR UNIT)

DETAILS OF CUT OUT FOR PIPING HOLE

SLEEVE THROUGH HOLE
$\phi 3-15/16-\phi 4-9/64$ ($\phi 100$)
$\phi 2-41/64-\phi 3-5/32$ ($\phi 75$)

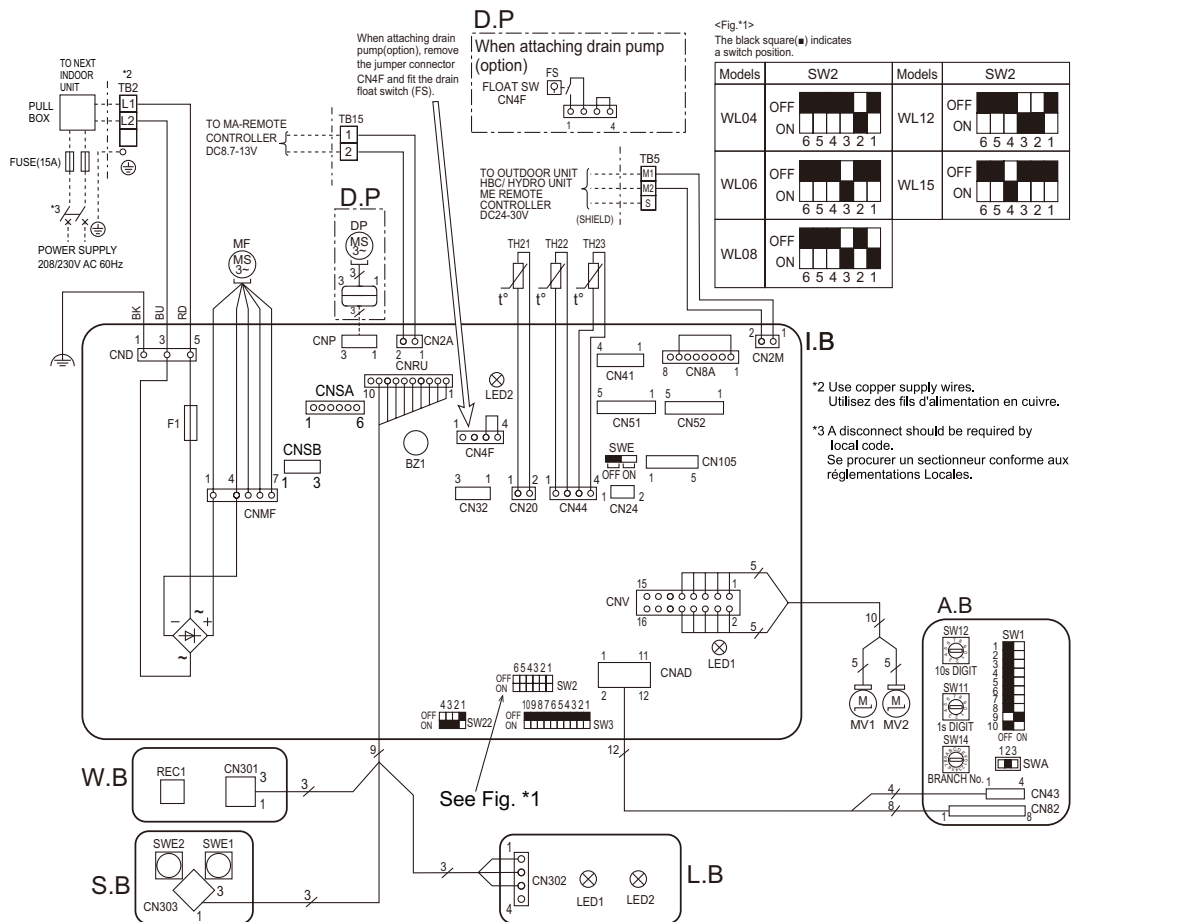
PKFY-WL-NLMU-E, NKMU-E



in(mm)

Model	W	D	H	X	Y	Z
PKFY-WL04NLMU-E	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-WL06NLMU-E	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-WL08NLMU-E	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-WL12NLMU-E	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-WL15NLMU-E	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-WL18NKMU-E	46-1/16 (1170)	11-5/8 (295)	14-3/8 (365)	7-1/2 (190)	18-1/8 (460)	7-1/2 (190)
PKFY-WL24NKMU-E	46-1/16 (1170)	11-5/8 (295)	14-3/8 (365)	7-1/2 (190)	18-1/8 (460)	7-1/2 (190)
PKFY-WL30NKMU-E	46-1/16 (1170)	11-5/8 (295)	14-3/8 (365)	7-1/2 (190)	18-1/8 (460)	7-1/2 (190)

PKFY-WL04, 06, 08, 12, 15NLMU-E



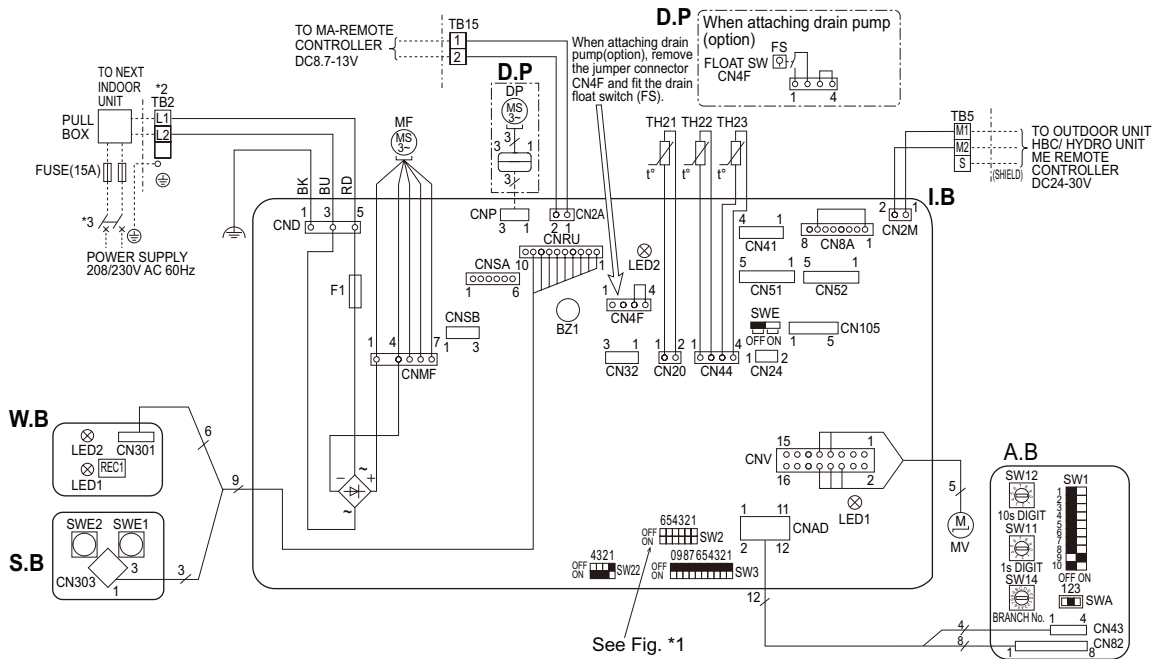
SYMBOL	NAME	SYMBOL	NAME
I.B	INDOOR CONTROLLER BOARD	TH21	THERMISTOR ROOM TEMP. DETECTION (32°F/15kΩ, 77°F/5.4kΩ)
CN24	CONNECTOR EXTERNAL HEATER	TH22	PIPE TEMP. DETECTION / INLET WATER (32°F/15kΩ, 77°F/5.4kΩ)
CN32	CONNECTOR REMOTE SWITCH	TH23	PIPE TEMP. DETECTION / OUTLET WATER (32°F/15kΩ, 77°F/5.4kΩ)
CN51	CONNECTOR CENTRALLY CONTROL	A.B	ADDRESS BOARD
CN52	CONNECTOR REMOTE INDICATION	SW1	SWITCH MODE SELECTION
CN105	CONNECTOR IT TERMINAL	SW11	SWITCH ADDRESS SETTING 1s DIGIT
BZ1	BUZZER	SW12	SWITCH ADDRESS SETTING 10s DIGIT
F1	FUSE (T3.15A/250V)	SW14	SWITCH BRANCH No.
LED1	POWER SUPPLY (I.B)	S.B	SWITCH BOARD
LED2	POWER SUPPLY (MA-REMOTE CONTROLLER)	SWE1	EMERGENCY OPERATION(HEAT)
SW2	SWITCH CAPACITY CODE	SWE2	EMERGENCY OPERATION(COOL)
SW3	SWITCH MODE SELECTION	W.B	PCB FOR WIRELESS REMOTE CONTROLLER
SW22	SWITCH PAIR NO. SETTING	REC1	RECEIVING UNIT
SWE	SWITCH FAN-DRAIN PUMP (TEST MODE)	L.B	LED BOARD
MF	FAN MOTOR	LED1	LED(OPERATING INDICATOR: GREEN)
MV1	VANE MOTOR (UPPER)	LED2	LED(STANDBY FOR HEATING : ORANGE)
MV2	VANE MOTOR (LOWER)	D.P	DRAIN PUMP KIT (OPTION)
TB2	TERMINAL POWER SUPPLY	FS	DRAIN FLOAT SWITCH
TB5	TERMINAL TRANSMISSION	DP	DRAIN PUMP
TB15	TERMINAL 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.

LED on indoor controller board for service

Symbol	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

PKFY-WL18, 24, 30NKMU-E



[LEGEND]

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 / INLET WATER (32°F/15kΩ, 77°F/5.4kΩ)
CN32	REMOTE SWITCH	TH23	PIPE TEMP. DETECTION / OUTLET WATER (32°F/15kΩ, 77°F/5.4kΩ)
CN51	CENTRALLY CONTROL		
CN52	REMOTE INDICATION		
CN105	IT TERMINAL		
BZ1	BUZZER	A.B	ADDRESS BOARD
F1	FUSE (T3.15A/250V)	SW1	SWITCH MODE SELECTION
LED1	POWER SUPPLY (I.B)	SW11	ADDRESS SETTING 1s DIGIT
LED2	POWER SUPPLY (MA-REMOTE CONTROLLER)	SW12	ADDRESS SETTING 10s DIGIT
SW2	SWITCH CAPACITY CODE	SW14	BRANCH No.
SW3	MODE SELECTION	S.B	SWITCH BOARD
SW22	PAIR NO. SETTING	SWE1	EMERGENCY OPERATION(HEAT)
SWE	FAN-DRAIN PUMP (TEST MODE)	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(PREPARATION FOR HEATING : ORANGE)
TB5	BLOCK TRANSMISSION	REC1	RECEIVING UNIT
TB15	BLOCK MA-REMOTE CONTROLLER	D.P	DRAIN PUMP KIT (OPTION)
		FS	DRAIN FLOAT SWITCH
		DP	DRAIN PUMP

<Fig.*1>
The black square(■) indicates a switch position.

Models	SW2
WL18	OFF ON 654321
WL24	OFF ON 654321
WL30	OFF ON 654321

- 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.

LED on indoor controller board for service

Symbol	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

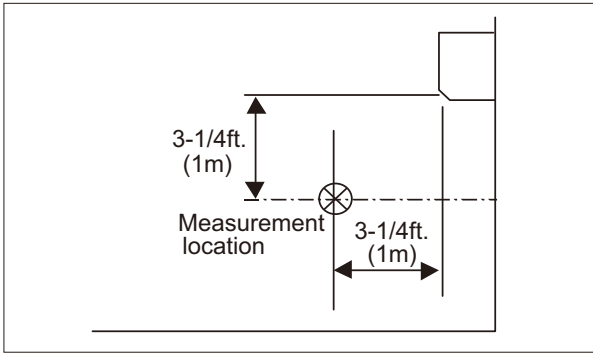
- *2 Use copper supply wires.
Utilisez des fils d'alimentation en cuivre.
- *3 A disconnect should be required by local code.
Se procurer un sectionneur conforme aux réglementations Locales.

PKFY-WL-NLKMU-E, NKMU-E

5-1. Sound levels

Wall mounted

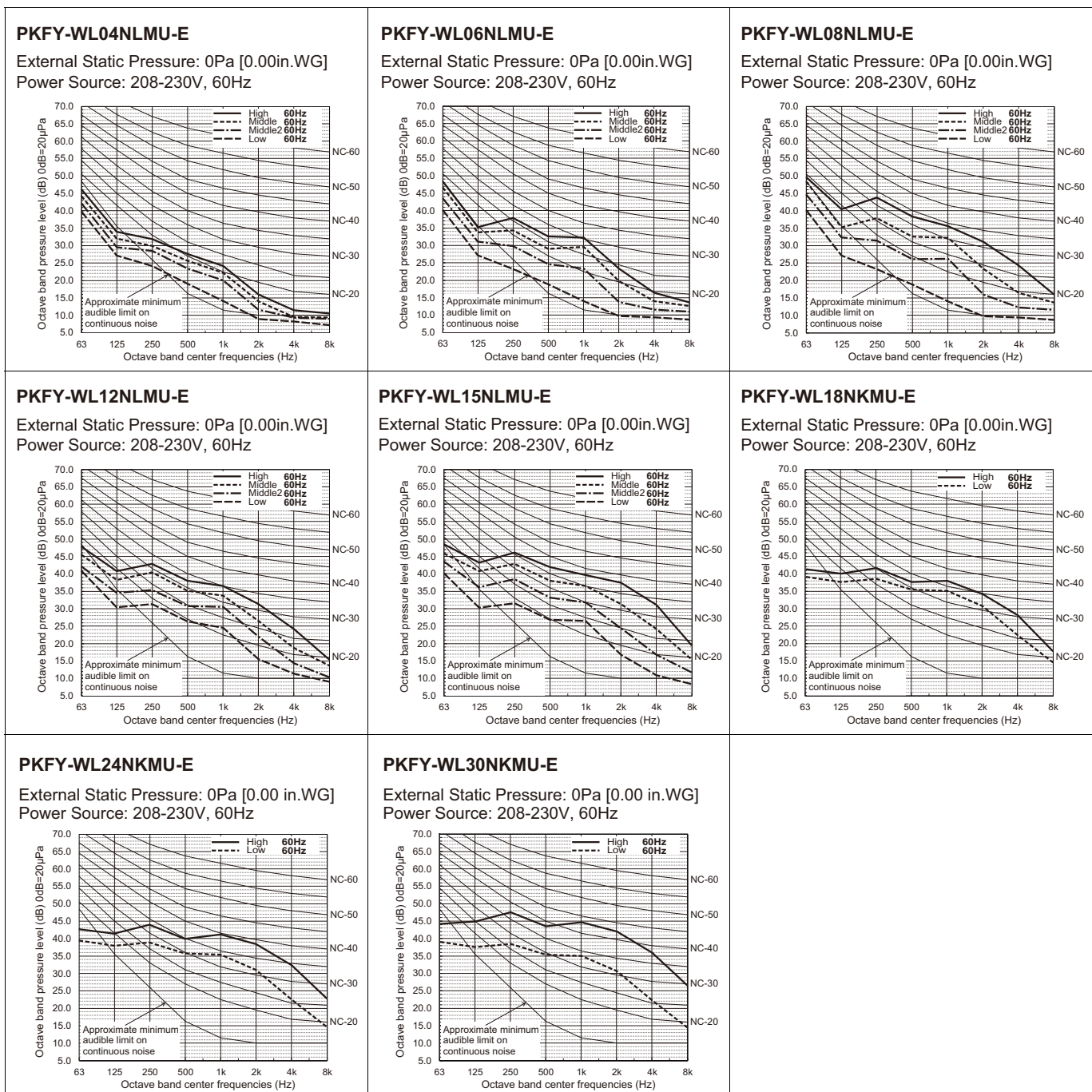
Sound level at anechoic room: Low-(Middle2-Middle1)-High



Model	Sound level dB (A)
PKFY-WL04NLMU-E	22-26-28-30
PKFY-WL06NLMU-E	22-28-33-36
PKFY-WL08NLMU-E	22-30-36-41
PKFY-WL12NLMU-E	29-34-38-41
PKFY-WL15NLMU-E	30-36-41-45
PKFY-WL18NKMU-E	39-42
PKFY-WL24NKMU-E	39-45
PKFY-WL30NKMU-E	39-49

* Measured in anechoic room.

5-2. NC curves

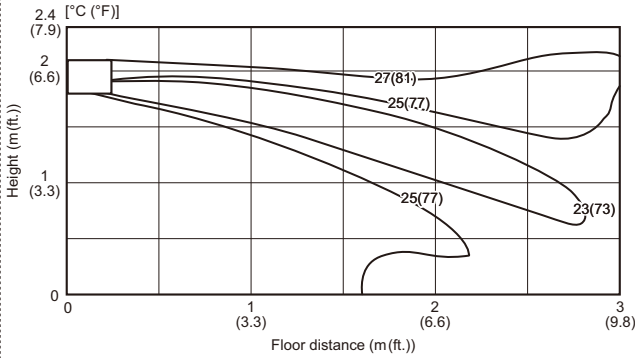


PKFY-WL-NLMU-E, NKMU-E

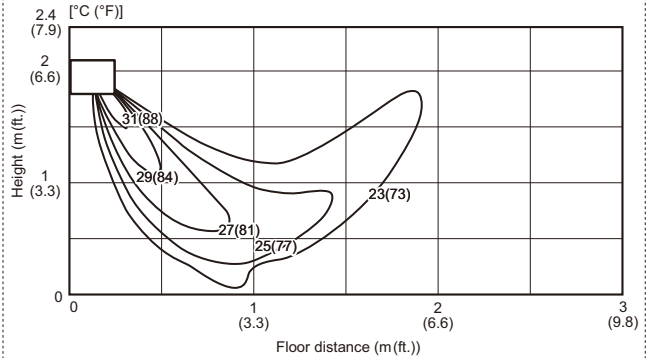
6-1. Temperature distributions

PKFY-WL04NLMU-E

<Cooling mode>
Horizontal air flow

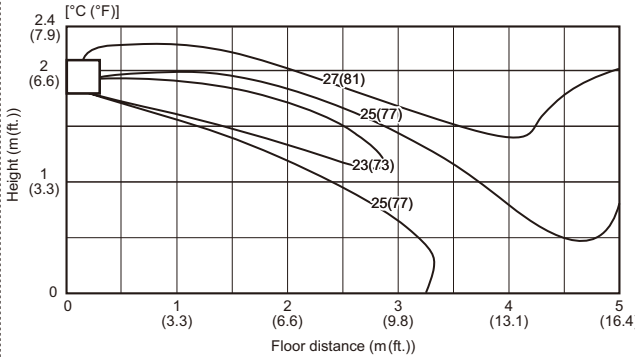


<Heating mode>
Downward air flow

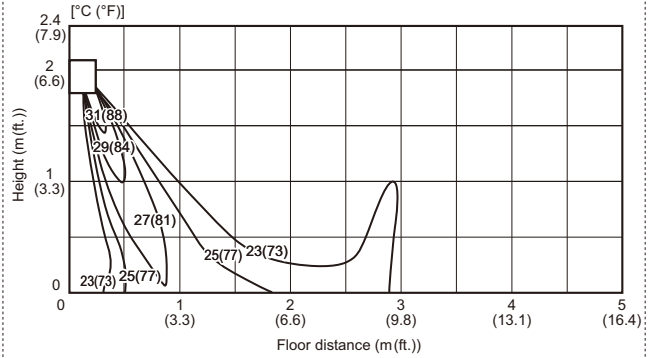


PKFY-WL06NLMU-E

<Cooling mode>
Horizontal air flow

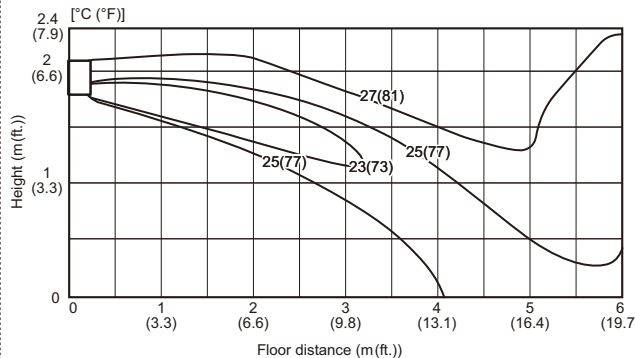


<Heating mode>
Downward air flow

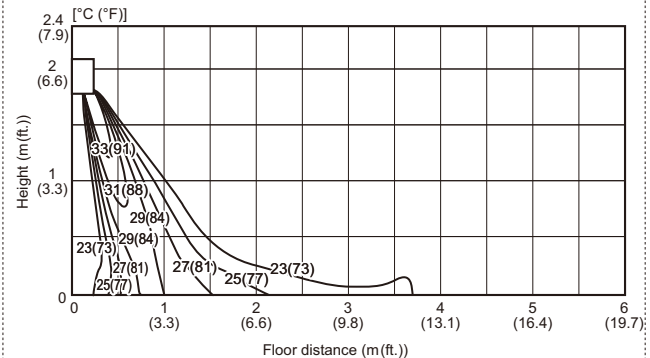


PKFY-WL08NLMU-E

<Cooling mode>
Horizontal air flow



<Heating mode>
Downward air flow

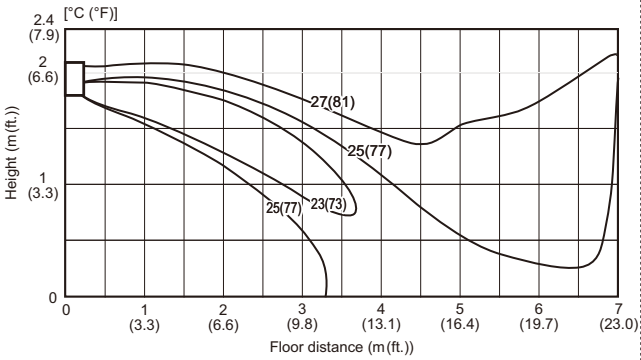


Note: These figures show typical temperature distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

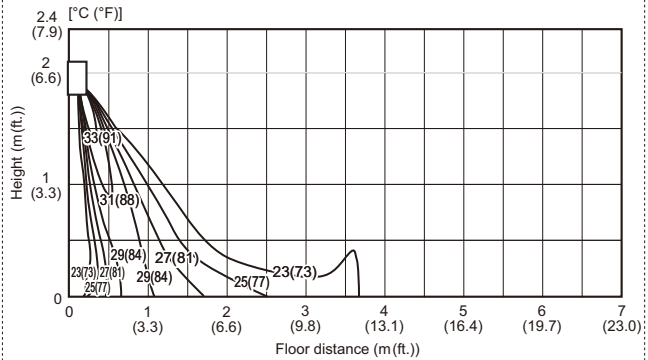
PKFY-WL-NLMU-E, NKMU-E

PKFY-WL12NLMU-E

<Cooling mode>
Horizontal air flow

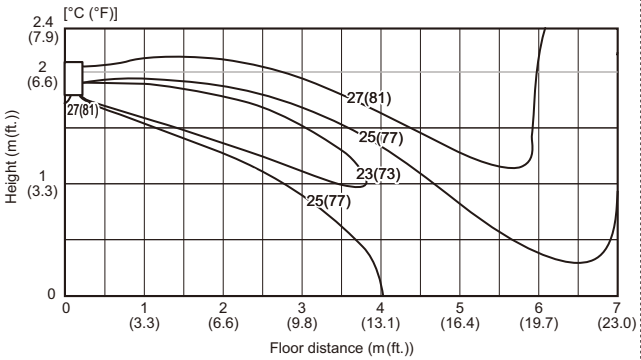


<Heating mode>
Downward air flow

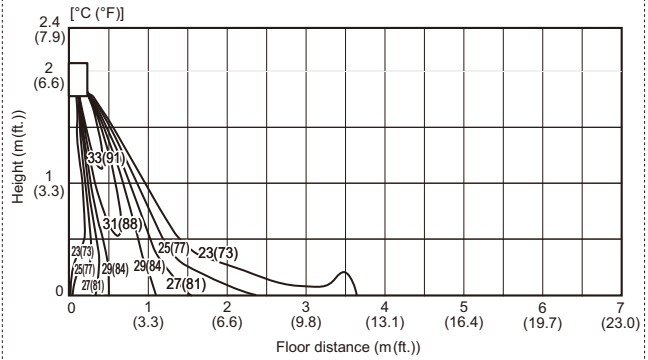


PKFY-WL15NLMU-E

<Cooling mode>
Horizontal air flow

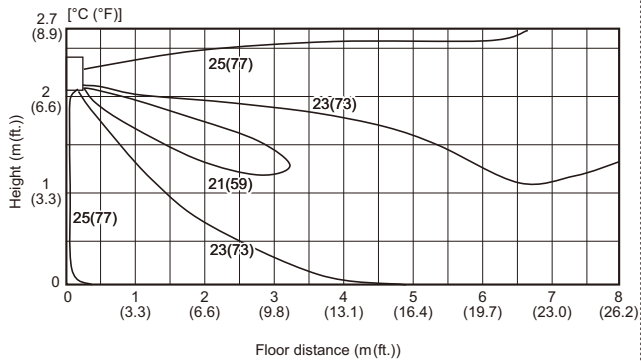


<Heating mode>
Downward air flow

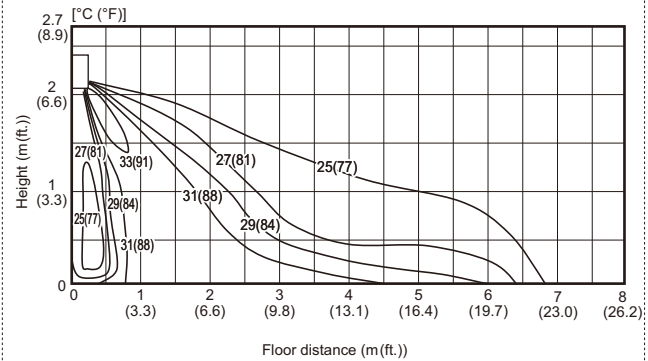


PKFY-WL18, 24, 30NKMU-E

<Cooling mode>
Horizontal air flow



<Heating mode>
Downward air flow

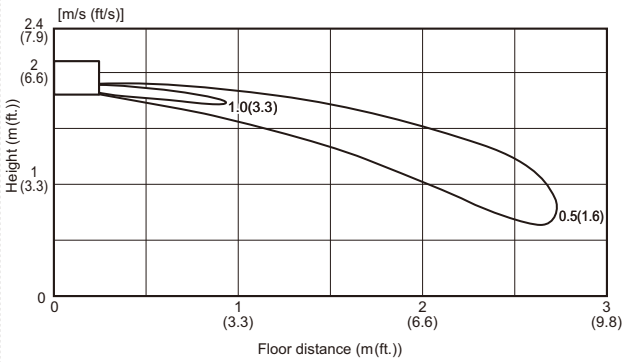


Note: These figures show typical temperature distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

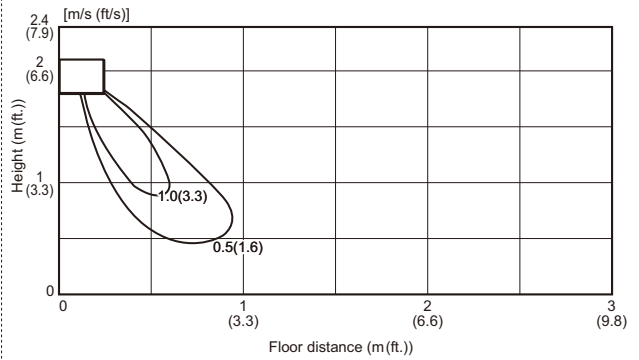
6-2. Airflow distributions

PKFY-WL04NLMU-E

<Cooling mode>
Horizontal air flow

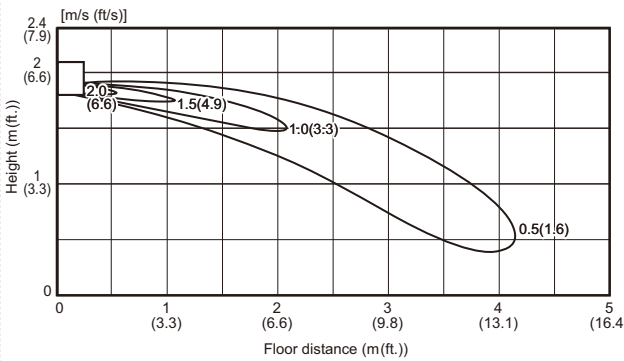


<Heating mode>
Downward air flow

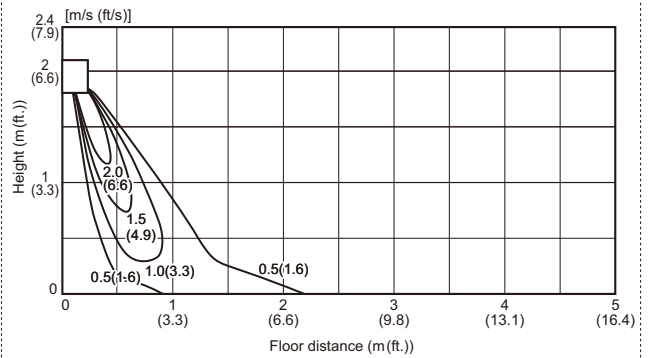


PKFY-WL06NLMU-E

<Cooling mode>
Horizontal air flow

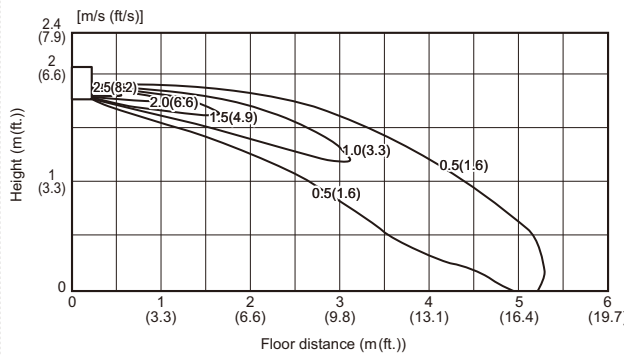


<Heating mode>
Downward air flow

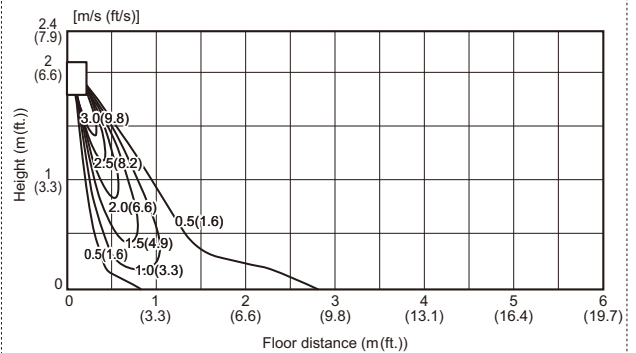


PKFY-WL08NLMU-E

<Cooling mode>
Horizontal air flow



<Heating mode>
Downward air flow

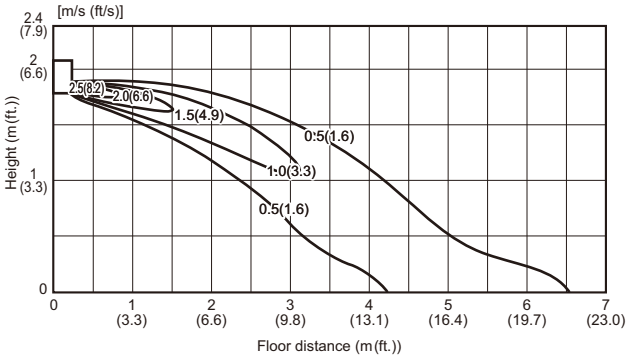


Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

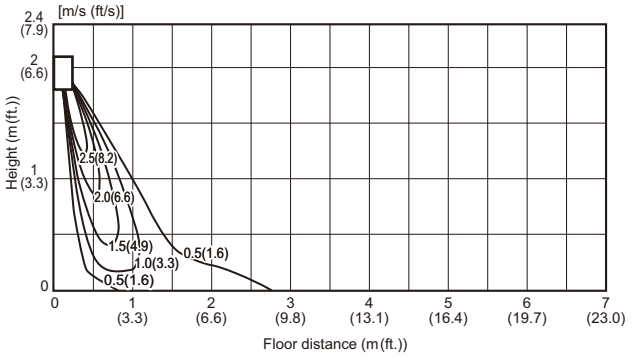
PKFY-WL-NLMU-E, NKMU-E

PKFY-WL12NLMU-E

<Cooling mode>
Horizontal air flow

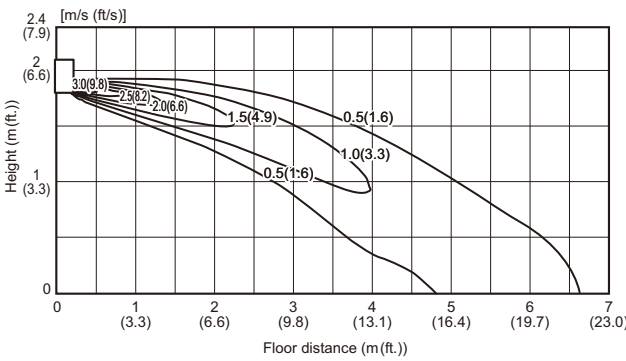


<Heating mode>
Downward air flow

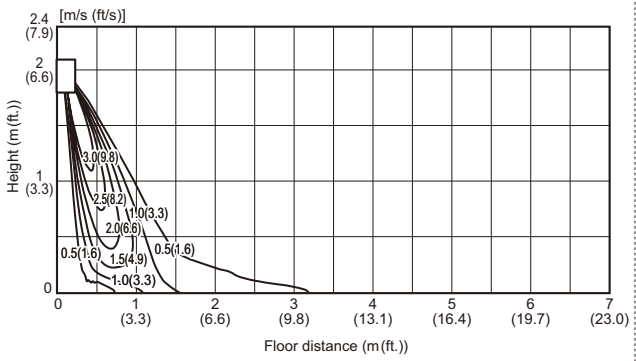


PKFY-WL15NLMU-E

<Cooling mode>
Horizontal air flow

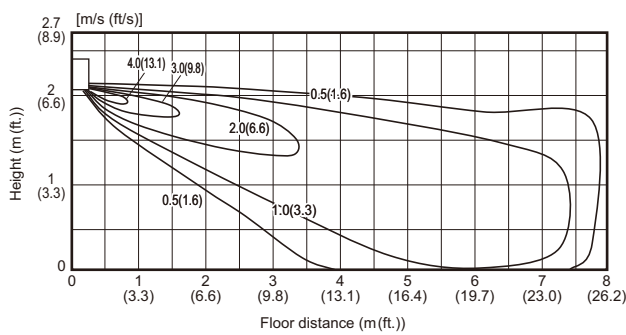


<Heating mode>
Downward air flow

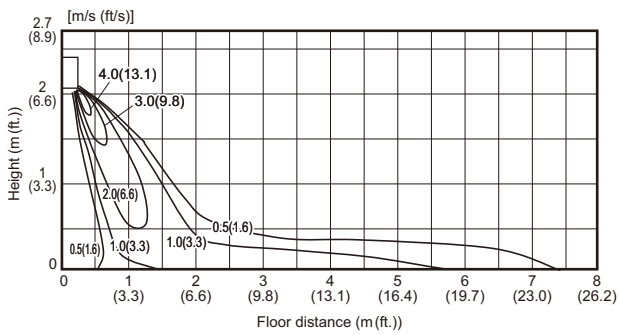


PKFY-WL18, 24, 30NKMU-E

<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. ELECTRICAL CHARACTERISTICS

Wall mounted

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-WL04NLMU-E	60Hz	208/230V	187 to 253V	0.24	0.030	0.19
PKFY-WL06NLMU-E				0.24	0.030	0.19
PKFY-WL08NLMU-E				0.24	0.030	0.19
PKFY-WL12NLMU-E				0.24	0.030	0.19
PKFY-WL15NLMU-E				0.24	0.030	0.19
PKFY-WL18NKMU-E				0.33	0.069	0.27
PKFY-WL24NKMU-E				0.33	0.069	0.27
PKFY-WL30NKMU-E				0.33	0.069	0.27

PKFY-WL-NLMU-E, NKMU-E

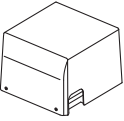

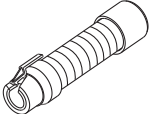
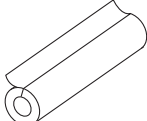
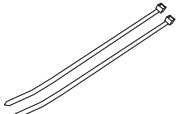
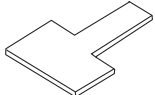
8-1. Optional parts line up for the Indoor unit

	Drain pump	External heater adapter
PKFY-WL04, 06, 08, 12, 15NLMU-E	PAC-SK01DM-E	PAC-YU25HT
PKFY-WL18, 24, 30NKMU-E	PAC-SK19DM-E	PAC-YU25HT

8-2. Drain pump

PAC-SK01DM-E

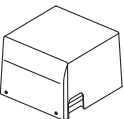

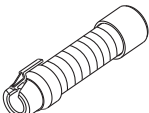
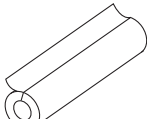
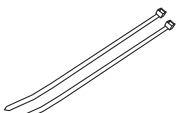
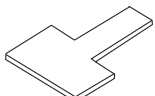
If drain water can not flow out the Indoor unit by gravity and gradient, a Drain-pump for draining is needed. Drain pump PAC-SK01DM-E can pump water up to 850mm [33-1/2 in.] high from the drain pan.

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				
Shape					

Detailed installation information should be referred to its Installation Manual.

PAC-SK19DM-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-SK19DM-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				
Shape					

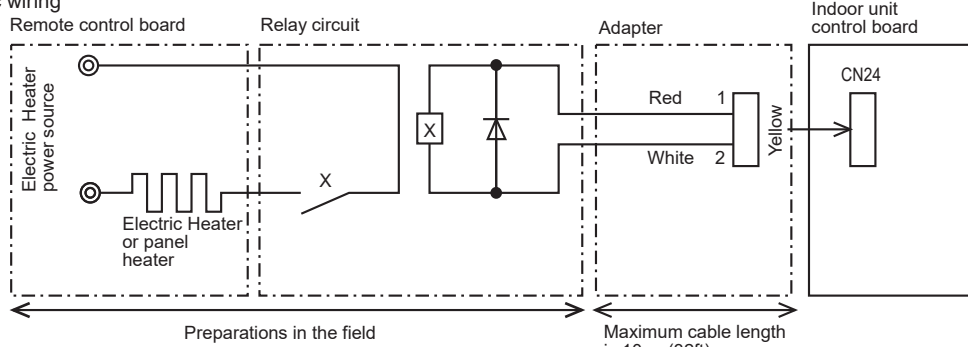
Detailed installation information should be referred to its Installation Manual.

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 : 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).

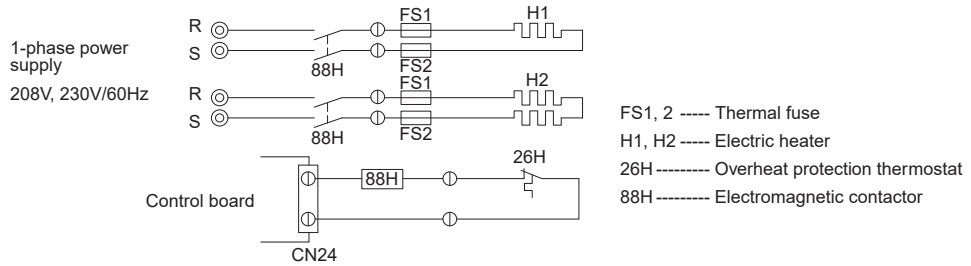
To extend this length, use sheathed 2-core cable.

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.

PKFY-WL-NLMU-E, NKMU-E

⚠ 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, R410A.

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