

PKFY-P-NAMU-E, NGMU-E, NFMU-E

1. SPECIFICATIONS	PKFY- 2
2. EXTERNAL DIMENSIONS	PKFY- 4
3. CENTER OF GRAVITY	PKFY- 8
4. ELECTRICAL WIRING DIAGRAMS	PKFY- 9
5. SOUND LEVELS	PKFY-11
5-1. Sound levels	PKFY-11
5-2. NC curves	PKFY-11
6. TEMPERATURE/AIRFLOW DISTRIBUTIONS	PKFY-12
6-1. Temperature distributions	PKFY-12
6-2. Airflow distributions	PKFY-13
7. OPTIONAL PARTS.....	PKFY-14
7-1. Optional parts line up for the Indoor unit.....	PKFY-14
7-2. L-shaped connection pipe PAC-SC84PI-E for PKFY-P-NFMU-E.....	PKFY-14
7-3. Condensate pump EE1750-230	PKFY-14
7-4. External heater adaptor PAC-YU24HT	PKFY-15

1. SPECIFICATIONS

DATA U4

Model			PKFY-P06NAMU-E	PKFY-P08NAMU-E	PKFY-P12NGMU-E	PKFY-P15NGMU-E
Power source			1-phase 208-230 V 60Hz			
Cooling capacity (Nominal)	*1	BTU / h	6,000	8,000	12,000	15,000
	*1	kW	1.8	2.3	3.5	4.4
	Power input	kW	0.03	0.03	0.07	0.07
	Current input	A	0.15	0.15	0.34	0.34
Heating capacity (Nominal)	*2	BTU / h	6,700	9,000	13,500	17,000
	*2	kW	2.0	2.6	4.0	5.0
	Power input	kW	0.03	0.03	0.07	0.07
	Current input	A	0.15	0.15	0.34	0.34
External finish			2.60Y 8.66/0.69		0.70Y 8.59/0.97	
External dimension H x W x D		in.	11-5/8 x 32-3/32 x 6-1/4	11-5/8 x 32-3/32 x 6-1/4	13-13/32 x 39 x 9-9/32	13-13/32 x 39 x 9-9/32
		mm	295 x 815 x 158	295 x 815 x 158	340 x 990 x 235	340 x 990 x 235
Net weight		lbs (kg)	19 (9)	19 (9)	36 (16)	36 (16)
Heat exchanger			Cross fin			
FAN	Type x Quantity		Line flow fan x 1	Line flow fan x 1	Line flow fan x 1	Line flow fan x 1
	External static press	in.WG	0.000 (208V)	0.000 (208V)	0.000 (208V)	0.000 (208V)
		Pa	0	0	0	0
		in.WG	0.000 (230V)	0.000 (230V)	0.000 (230V)	0.000 (230V)
		Pa	0	0	0	0
	Motor type		1-phase induction motor			
	Motor output	kW	0.017	0.017	0.030	0.030
	Driving mechanism		Direct-driven			
	Airflow rate (Low-Mid1-Mid2-High)	cfm	173-184-198-208	173-184-198-208	283-335-371-406	283-335-371-406
		m3 / min	4.9-5.2-5.6-5.9	4.9-5.2-5.6-5.9	8.0-9.5-10.5-11.5	8.0-9.5-10.5-11.5
		L / s	82-87-93-98	82-87-93-98	133-158-175-192	133-158-175-192
Sound pressure level (Low-Mid1-Mid2-High) (measured in anechoic room)	dB <A>		32-33-35-36 (208-230V)	32-33-35-36 (208-230V)	32-36-40-42 (208-230V)	32-36-40-42 (208-230V)
	dB <A>		-	-	-	-
	dB <A>		-	-	-	-
Insulation material			Polyethylene foam			
Air filter			PP honeycomb			
Protection device			Fuse			
Refrigerant control device			LEV			
Connectable outdoor unit			R410A CITY MULTI	R410A CITY MULTI	R410A,R22 CITY MULTI	R410A,R22 CITY MULTI
Diameter of refrigerant pipe (O.D.)	Liquid (R410A) (R22)	in. (mm)	1/4 (6.35) Flare	1/4 (6.35) Flare	1/4 (6.35) Flare	1/4 (6.35) Flare
			-	-	1/4 (6.35) Flare	1/4 (6.35) Flare
	Gas (R410A) (R22)	in. (mm)	1/2 (12.7) Flare	1/2 (12.7) Flare	1/2 (12.7) Flare	1/2 (12.7) Flare
Field drain pipe size		in. (mm)	O.D. 5/8 (16)	O.D. 5/8 (16)	O.D. 13/16 (20)	O.D. 13/16 (20)
Drawing	External		RG01N979	RG01N979	RG01N981	RG01N981
	Wiring		RG79N933	RG79N933	RG79N931	RG79N931
	Refrigerant cycle		-	-	-	-
Standard attachment	Document Accessory		Installation Manual,Installation Book			
Optional parts	External heater adaptor		-	-	PAC-YU24HT-F	PAC-YU24HT-F
Remark						
	Installation		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			

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

Ref.: Spec_PKFY-P06-15NAMU,NGMU-E

1. SPECIFICATIONS

DATA U4

Model			PKFY-P18NFMU-E	PKFY-P24NFMU-E	PKFY-P30NFMU-E	
Power source			1-phase 208-230 V 60Hz			
Cooling capacity (Nominal)	*1	BTU / h	18,000	24,000	30,000	
	*1	kW	5.3	7.0	8.8	
		Power input	0.09	0.09	0.12	
		Current input	0.44	0.44	0.58	
Heating capacity (Nominal)	*2	BTU / h	20,000	27,000	34,000	
	*2	kW	5.9	7.9	10.0	
		Power input	0.09	0.09	0.12	
		Current input	0.44	0.44	0.58	
External finish			3.4Y 7.7/0.8			
External dimension H x W x D		in.	13-13/32 x 55-1/8 x 9-9/32	13-13/32 x 55-1/8 x 9-9/32	13-13/32 x 66-5/32 x 9-9/32	
		mm	340 x 1,400 x 235	340 x 1,400 x 235	340 x 1,680 x 235	
Net weight		lbs (kg)	53 (24)	53 (24)	62 (28)	
Heat exchanger			Cross fin			
FAN	Type x Quantity		Line flow fan x 2	Line flow fan x 2	Line flow fan x 2	
	External static press	in.WG	0.000 (208V)	0.000 (208V)	0.000 (208V)	
		Pa	0	0	0	
		in.WG	0.000 (230V)	0.000 (230V)	0.000 (230V)	
		Pa	0	0	0	
	Motor type		1-phase induction motor			
	Motor output		0.045	0.045	0.070	
	Driving mechanism		Direct-driven			
	Airflow rate (Low-High)	cfm	494-636	494-636	777-989	
		m3 / min	14.0-18.0	14.0-18.0	22.0-28.0	
		L / s	233-300	233-300	367-467	
	Sound pressure level (Low-High) (measured in anechoic room)		dB <A>	39-45 (208-230V)	39-45 (208-230V)	46-49 (208-230V)
dB <A>			-	-	-	
dB <A>			-	-	-	
Insulation material			Polyethylene foam			
Air filter			PP honeycomb			
Protection device			Fuse			
Refrigerant control device			LEV			
Connectable outdoor unit			R410A,R22 CITY MULTI			
Diameter of refrigerant pipe (O.D.)	Liquid (R410A) (R22)	in. (mm)	1/4 (6.35) Flare 3/8 (9.52) Flare	3/8 (9.52) Flare 3/8 (9.52) Flare	3/8 (9.52) Flare 3/8 (9.52) Flare	
		in. (mm)	1/2 (12.7) Flare 5/8 (15.88) Flare	5/8 (15.88) Flare 5/8 (15.88) Flare	5/8 (15.88) Flare 5/8 (15.88) Flare	
	Gas (R410A) (R22)	in. (mm)				
Field drain pipe size		in. (mm)	O.D. 13/16 (20)	O.D. 13/16 (20)	O.D. 13/16 (20)	
Drawing	External		RG01N980-1	RG01N980-1	RG01N980-2	
	Wiring		RG79N931	RG79N931	RG79N931	
	Refrigerant cycle		-	-	-	
Standard attachment	Document		Installation Manual,Installation Book			
	Accessory					
Optional parts	External heater adaptor		PAC-YU24HT-F	PAC-YU24HT-F	PAC-YU24HT-F	
	L-Shaped Connection Pipe(15.88)		PAC-SC84PI-E	PAC-SC84PI-E	PAC-SC84PI-E	
Remark						
	Installation		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			

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

Ref.: Spec_PKFY-P18-30NFMU-E

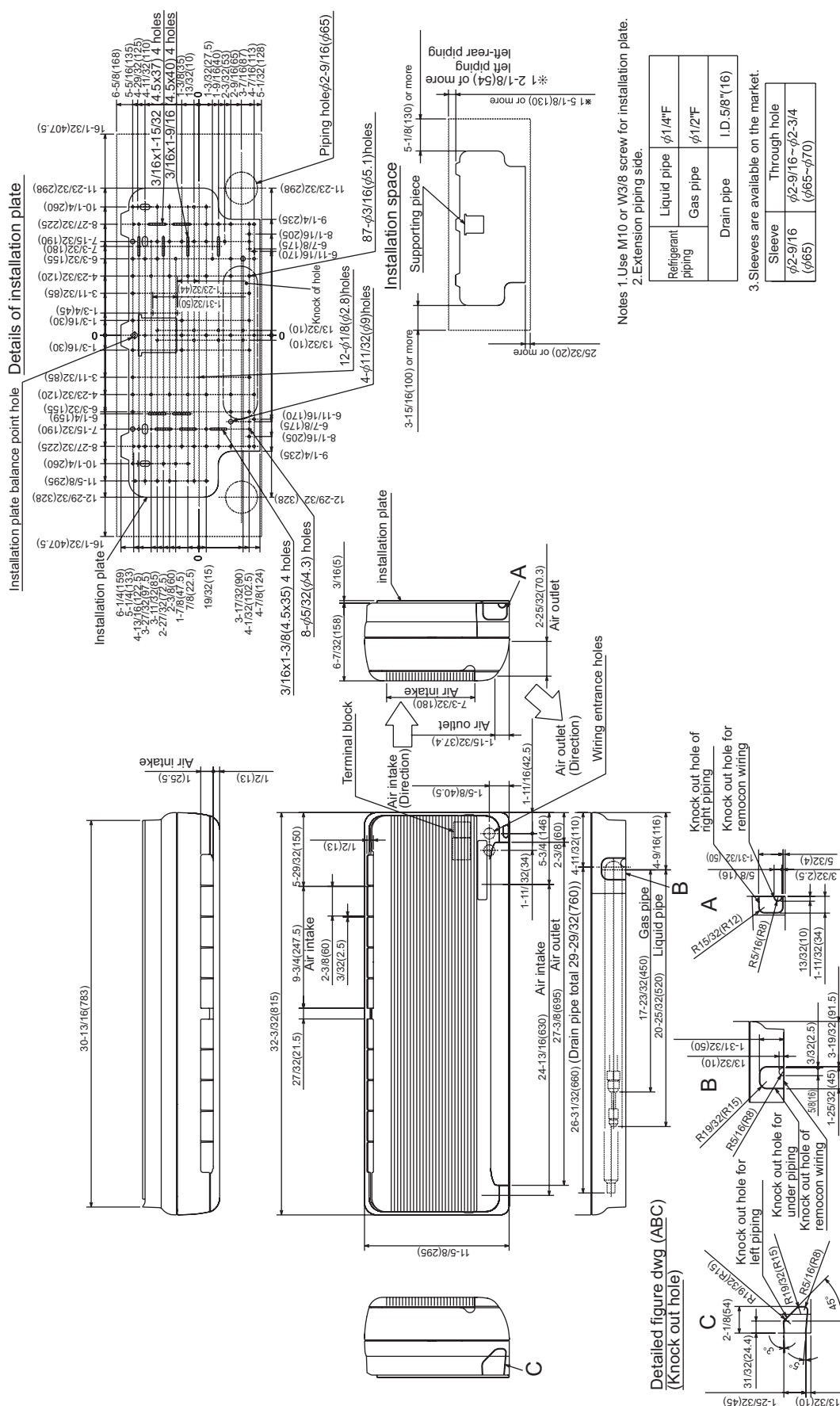
2. EXTERNAL DIMENSIONS

DATA U4

PKFY-P06,08NAMU-E

Drw. : IU-RG01N979

Unit : in(mm)



Notes 1. Use M10 or W3/8 screw for installation plate.
2. Extension piping side.

Refrigerant piping	Liquid pipe	$\phi 1/4"$ F
	Gas pipe	$\phi 1/2"$ F
	Drain pipe	I.D. 5/8" (16)

ives are available on the market.

Sleeve	Through hole
$\phi 2-9/16$ ($\phi 65$)	$\phi 2-9/16 \sim \phi 2-3/4$ ($\phi 65 \sim \phi 70$)

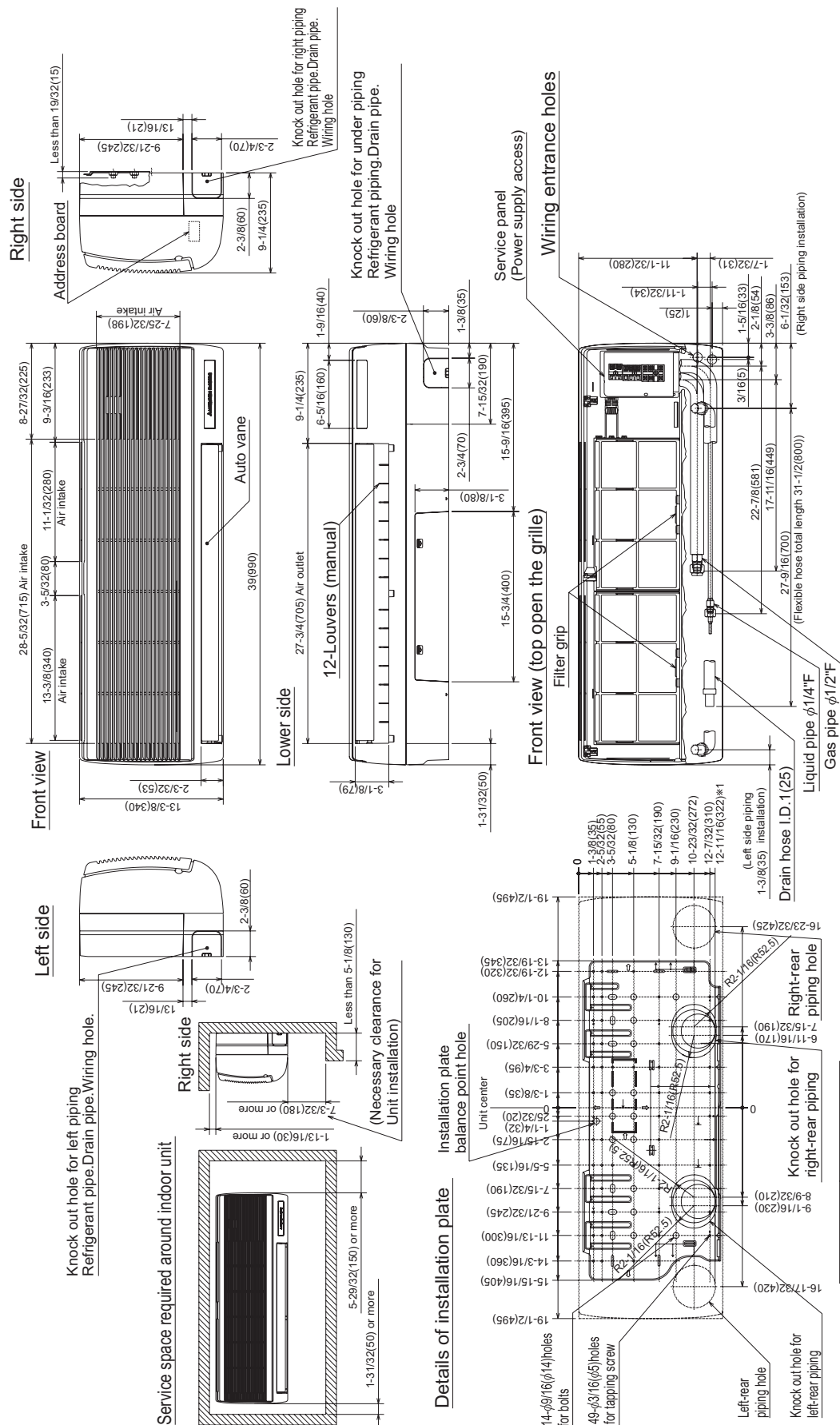
PKFY

2. EXTERNAL DIMENSIONS

DATA U4

PKFY-P12,15NGMU-E

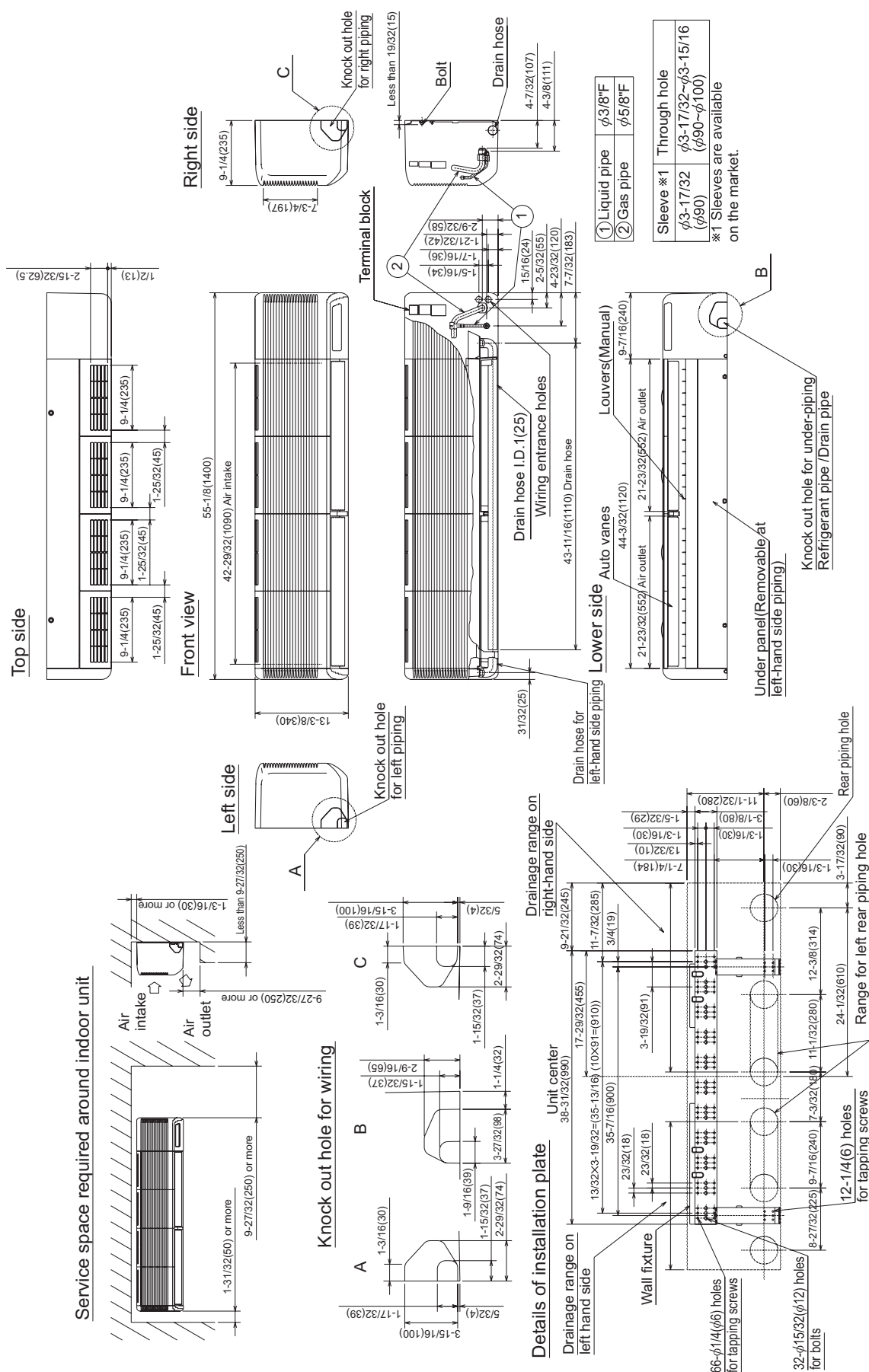
Drw. : IU-RG01N981
Unit : in(mm)



※1 Sleeves are available on the market.
※2 This size shows the lower end of through hole.

Sleeve #1	Through hole
$\phi 2-15/16(\phi 75)$	$\phi 2-15/16 \sim \phi 3-5/32$ ($\phi 75 \sim \phi 80$)

PKFY-P18,24NFMU-E

 Draw. : IU-RG01N980-1
 Unit : in(mm)


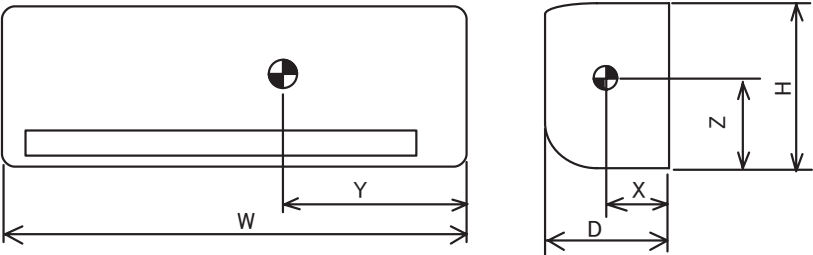
DATA U4

Drw. : IU-RG01N980-2
Unit : in(mm)



PKFY-P12,15NGMU-E

Ref.: PKFY_NGMU_COG_USDB_ALL



(mm)[in]

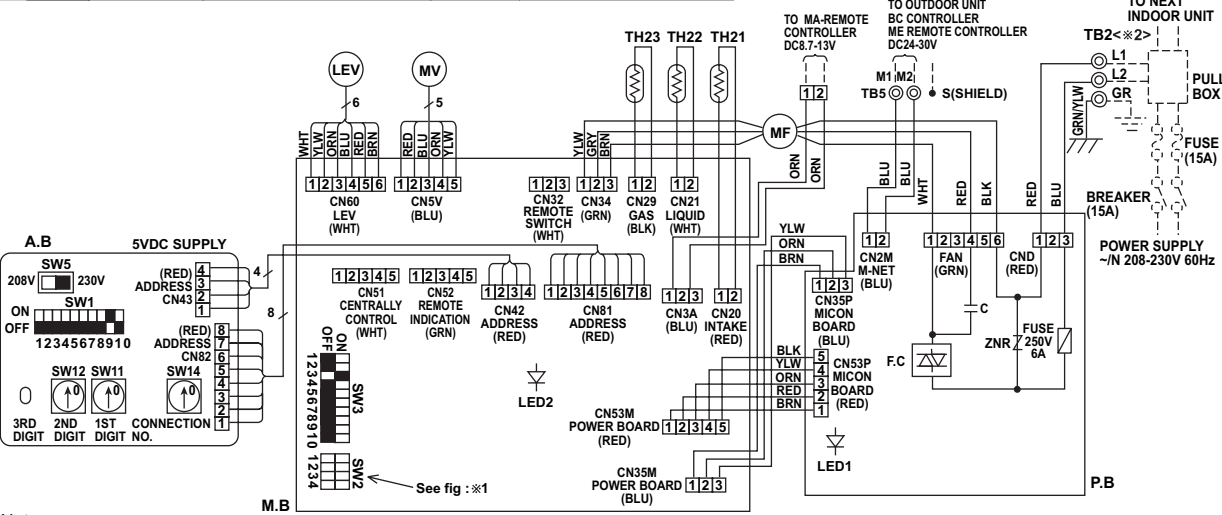
Model name	W	D	H	X	Y	Z
PKFY-P12NGMU-E	990 [39]	235 [9-9/32]	340 [13-13/32]	118 [4-21/32]	380 [14-31/32]	170 [6-23/32]
PKFY-P15NGMU-E	990 [39]	235 [9-9/32]	340 [13-13/32]	118 [4-21/32]	380 [14-31/32]	170 [6-23/32]

PKFY-P06,08NAMU-E

Drw. : IU-RG79N933

[LEGEND]

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
A. B	CIRCUIT BOARD (ADDRESS)	P. B	INDOOR POWER BOARD	LEV	LINEAR EXPANSION VALVE
SW1	SWITCH	C	CAPACITOR (FAN MOTOR)	MF	FAN MOTOR
SW5		F.C	FAN PHASE CONTROL	MV	VANE MOTOR
SW11		FUSE	FUSE (6A/250V)	TB2	TERMINAL BLOCK
SW12		ZNR	VARISTOR	TB5	TERMINAL BLOCK
SW14				TH21	THERMISTOR
M. B	INDOOR CONTROLLER BOARD			TH22	
CN32	CONNECTOR			TH23	
CN51					
CN52					
SW2	SWITCH				
SW3					



- Notes:
1. At servicing for outdoor unit, always follow the wiring diagram of outdoor unit.
 2. In case of connecting 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, (•): direct wire connection.
 5. Please set the switch SW5 according to the power supply voltage.
Set SW5 to 230V side when the power supply is 230 volts.
When the power supply is 208 volts, set SW5 to 208V side.
 6. The setting of the SW2 dip switches differs in the capacity for the detail, refer to the fig : ※1.

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
PKFY-P06NAMU-E	ON OFF 1 2 3 4
PKFY-P08NAMU-E	ON OFF 1 2 3 4

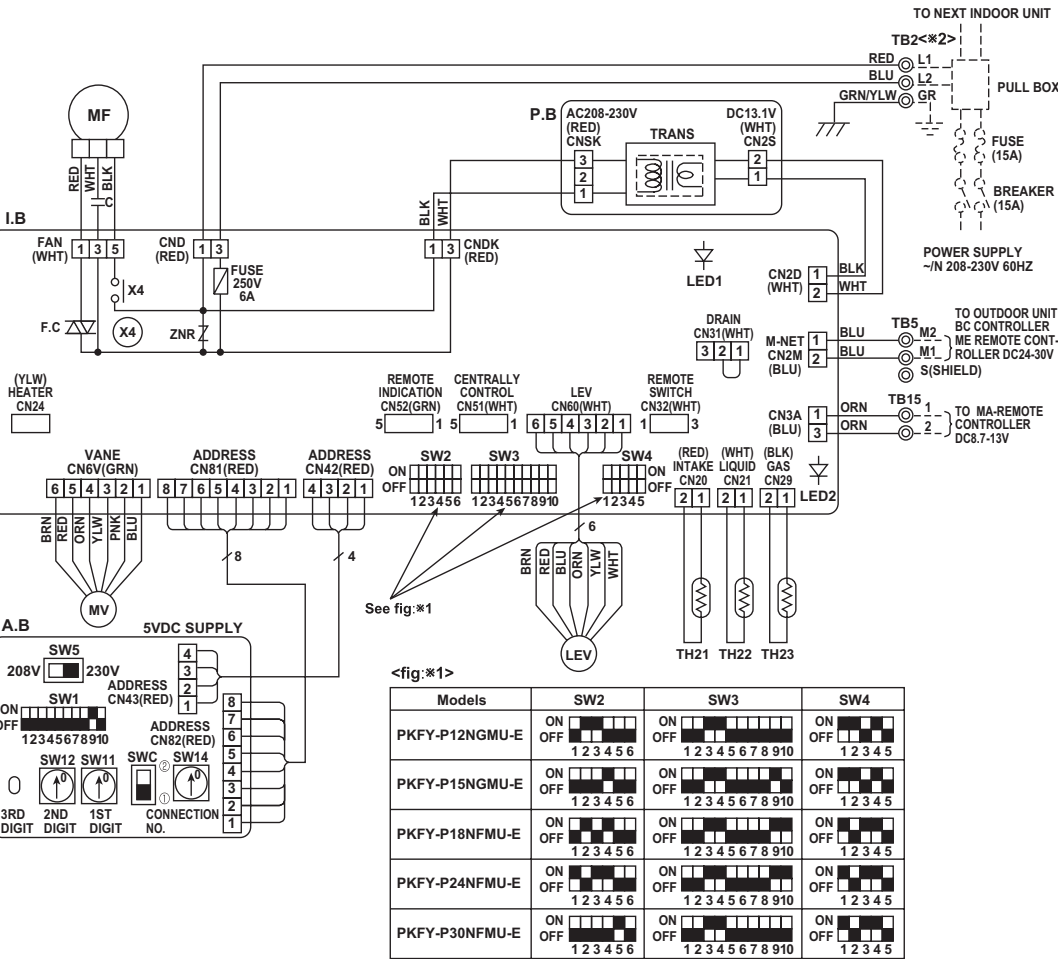
<※2>Use Copper Supply Wire.

PKFY-P12,15NGMU-E
PKFY-P18,24,30NFMU-E

Drw. : IU-RG79N934

[LEGEND]

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
I. B	INDOOR CONTROLLER BOARD	C	CAPACITOR (FAN MOTOR)	TH23	THERMISTOR
CN24	CONNECTOR	LEV	LINEAR EXPANSION VALVE		PIPE TEMP. DETECTION/GAS (32°F/15kΩ, 77°F/5.4kΩ)
CN32		MF	FAN MOTOR (WITH INNER THERMOSTAT)	A. B	CIRCUIT BOARD (ADDRESS)
CN51		MV	VANE MOTOR	SW1	SWITCH
CN52		P.B	INDOOR POWER BOARD	SW5	
F.C	FAN PHASE CONTROL	TB2	TERMINAL	SW11	
FUSE	FUSE (6A/250V)	TB5	BLOCK	SW12	
SW2	SWITCH	TB15		SW14	
SW3		TH21	THERMISTOR	SWC	
SW4			POWER SUPPLY		
X4	AUX. RELAY (FAN MOTOR)		TRANSMISSION		
ZNR	VARIATOR		MA-REMOTE CONTROLLER		
			ROOM TEMP. DETECTION (32°F/15kΩ, 77°F/5.4kΩ)		
			PIPE TEMP. DETECTION/LIQUID (32°F/15kΩ, 77°F/5.4kΩ)		



<*2>Use Copper Supply Wire.

Notes:

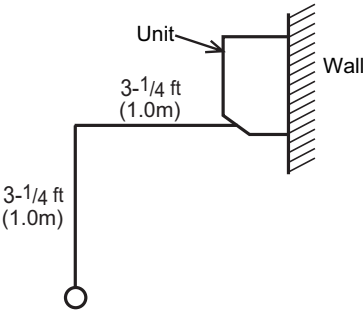
- At servicing for outdoor unit, always follow the wiring diagram of outdoor unit.
- In case of using MA-Remote controller, please connect to TB15. (Remote controller wire is non-polar.)
- In case of using M-NET, please connect to TB5. (Transmission line is non-polar.)
- Symbol [S] of TB5 is the shield wire connection.
- Symbols used in wiring diagram above are, ⊙:terminal block, □:connector.
- The setting of the SW2/SW3/SW4 dip switches differs in the capacity for the detail, refer to the fig :*1.
- 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

5-1. Sound levels

Wall mounted



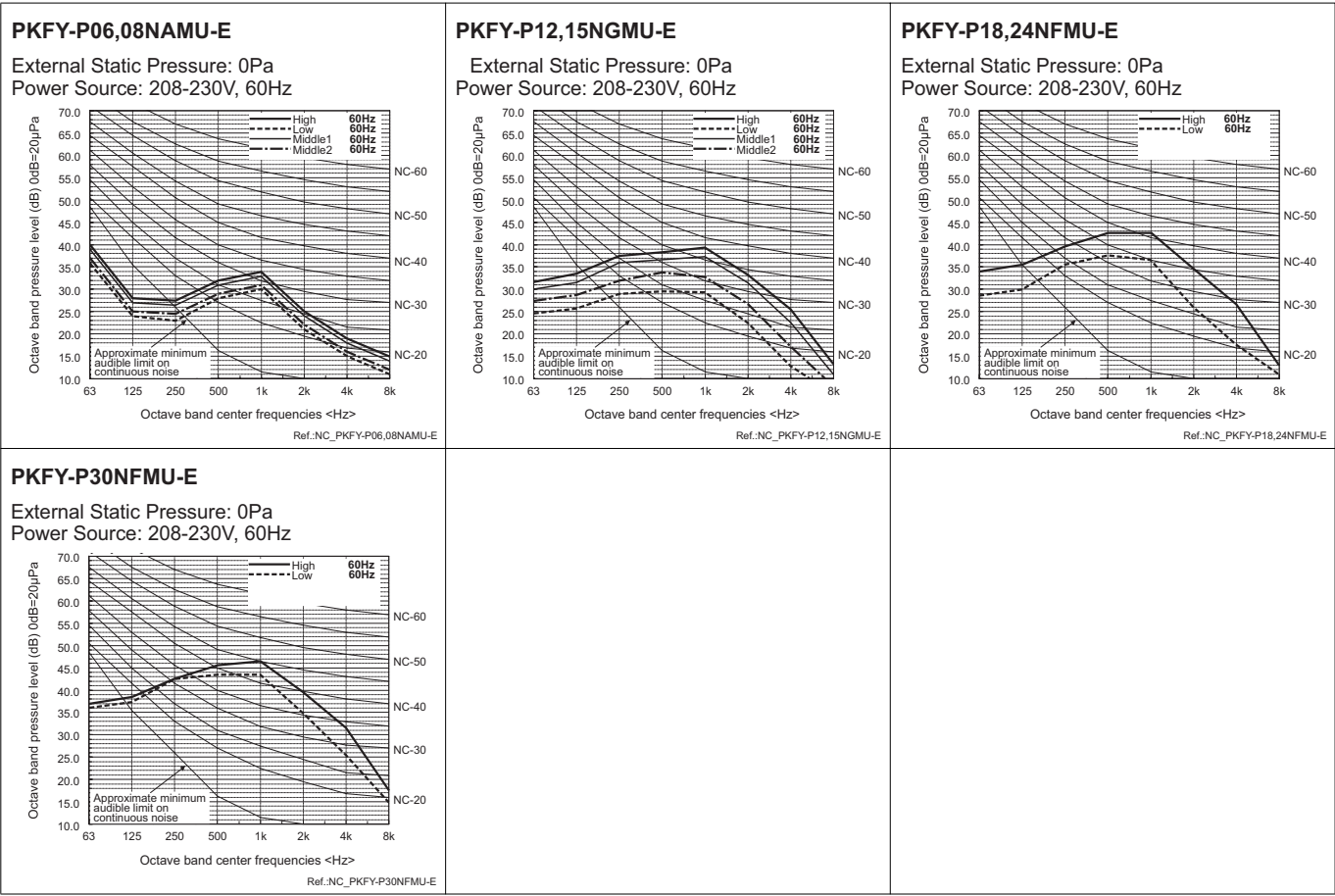
Measurement location

Operating sound level
(Low-Middle2-Middle1-High)

Unit : dB(A)

Model	Sound level (A weighted)
PKFY-P06,08NAMU-E	32-33-35-36
PKFY-P12,15NGMU-E	32-36-40-42
PKFY-P18,24NFMU-E	39-45
PKFY-P30NFMU-E	46-49

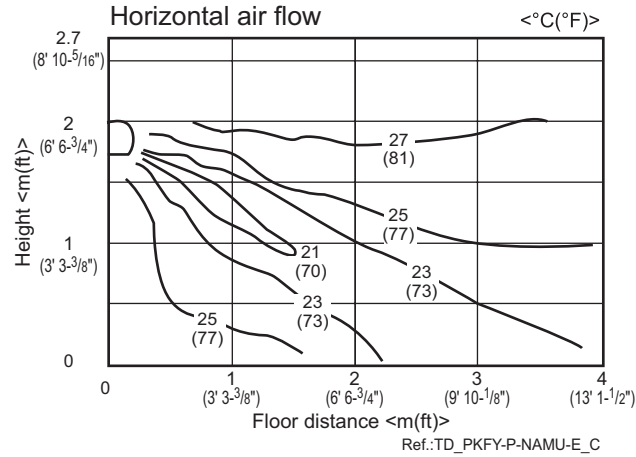
5-2. NC curves



6-1. Temperature distributions

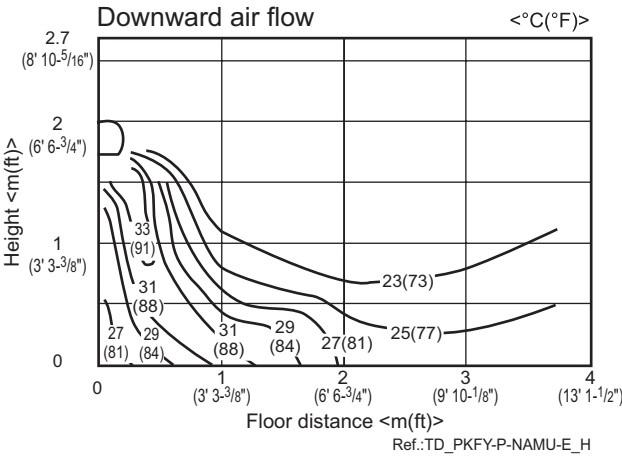
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<Cooling mode>

Horizontal air flow



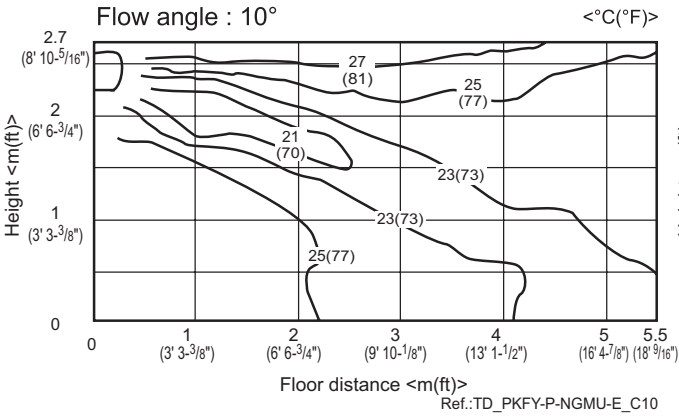
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Downward air flow



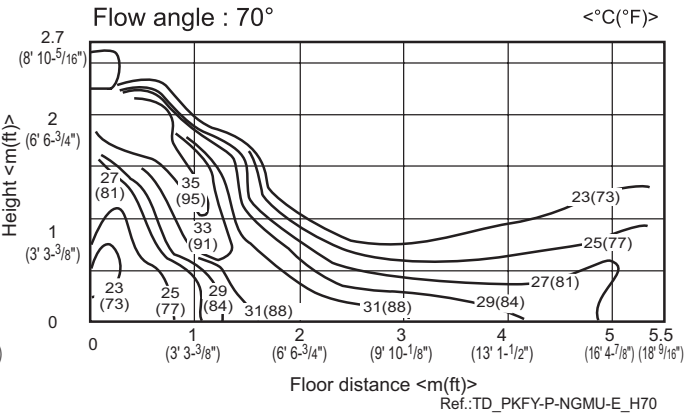
PKFY-P12,15NGMU-E
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Flow angle : 10°



<Heating mode>

Flow angle : 70°

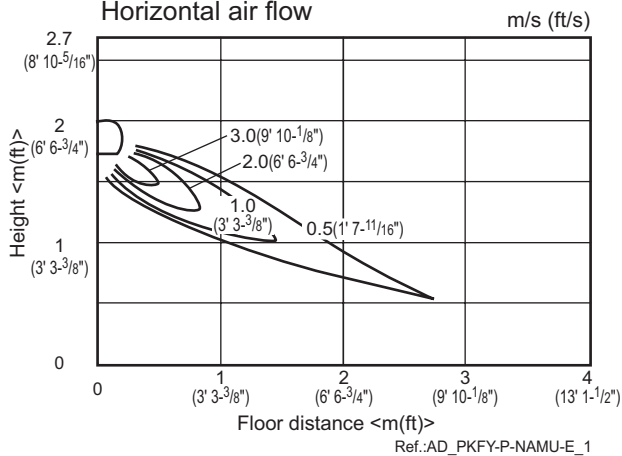


6-2. Airflow distributions

PKFY-P06,08NAMU-E

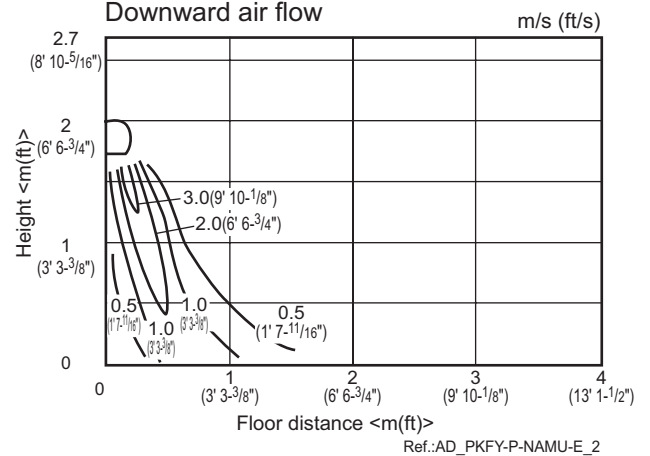
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Horizontal air flow



<Fan mode>

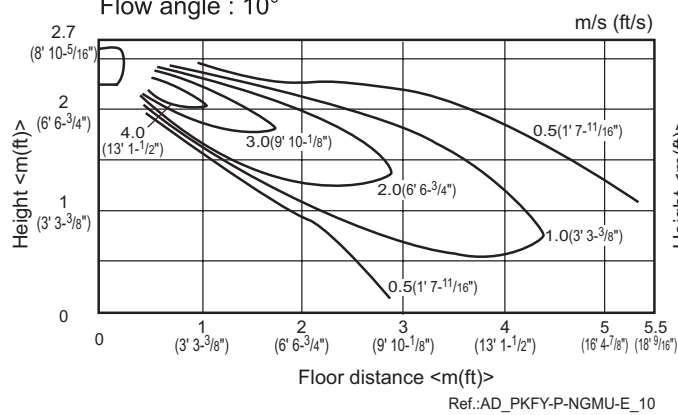
Downward air flow



PKFY-P12,15NGMU-E

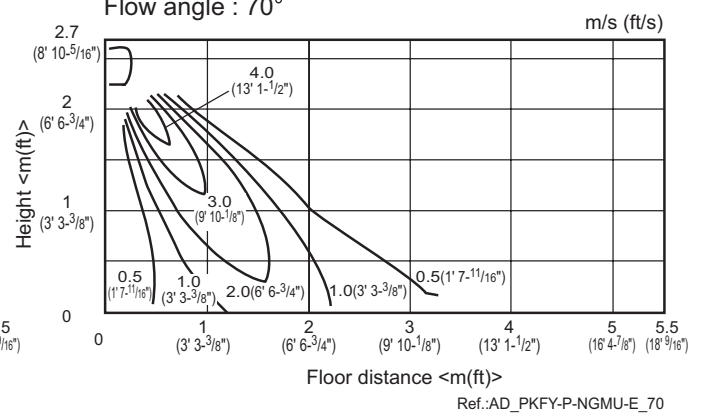
<Fan mode>

Flow angle : 10°



<Fan mode>

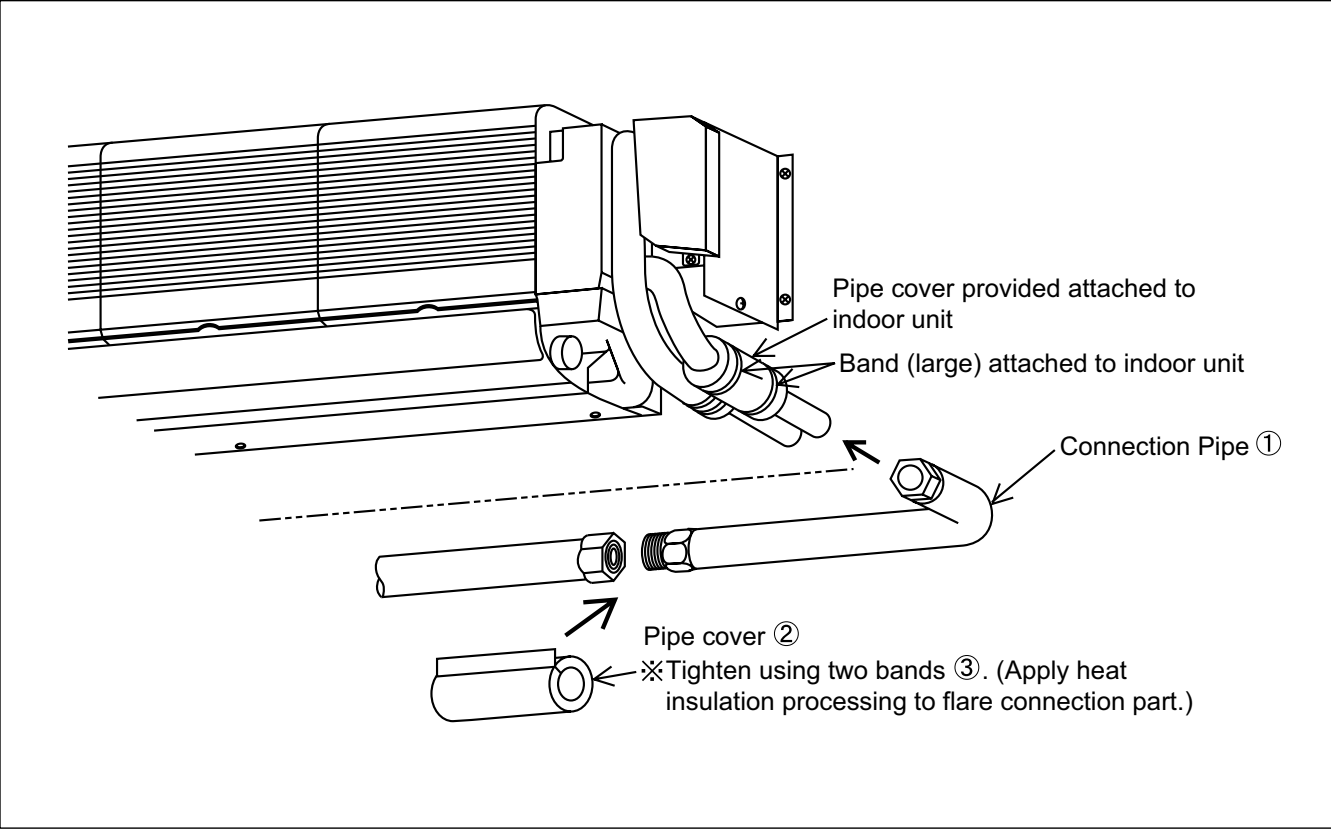
Flow angle : 70°



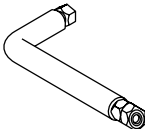
7-1. Optional parts line up for the Indoor unit

	L-Shaped Connection Pipe(15.88)	Condensate pump	External heater adaptor
PKFY-P06,08NAMU-E	—	EE1750-230	—
PKFY-P12,15NGMU-E	—	EE1750-230	PAC-YU24HT-F
PKFY-P18,24,30NFMU-E	PAC-SC84PI-E	EE1750-230	PAC-YU24HT-F

PKFY-P-NFMU-E



7-2. L-shaped connection pipe PAC-SC84PI-E for PKFY-P-NFMU-E

This connection pipe is used when refrigerant pipe (gas pipe) is to be drawn out to the left, the left rear, the right, or the right rear on the wall type indoor unit.		<table><tr><td>Pipe diameter (mm)</td><td>φ 15.88 (5/8")</td></tr><tr><td>Number of pipes</td><td>1 (for gas)</td></tr><tr><td>Pipe material</td><td>Phosphate deacidized copper C1220T-OL (JIS H3300)</td></tr><tr><td>Heat insulator</td><td>EPT sponge rubber</td></tr></table>		Pipe diameter (mm)	φ 15.88 (5/8")	Number of pipes	1 (for gas)	Pipe material	Phosphate deacidized copper C1220T-OL (JIS H3300)	Heat insulator	EPT sponge rubber
Pipe diameter (mm)	φ 15.88 (5/8")										
Number of pipes	1 (for gas)										
Pipe material	Phosphate deacidized copper C1220T-OL (JIS H3300)										
Heat insulator	EPT sponge rubber										
Item	① Connection Pipe (gas pipe)	② Pipe cover	③ Band								
Quantity	1	1	2								
Shape	 PAC-SC84PI-E... φ 15.88 (5/8")										

Detailed installation information should be referred to its Technical Service Manual

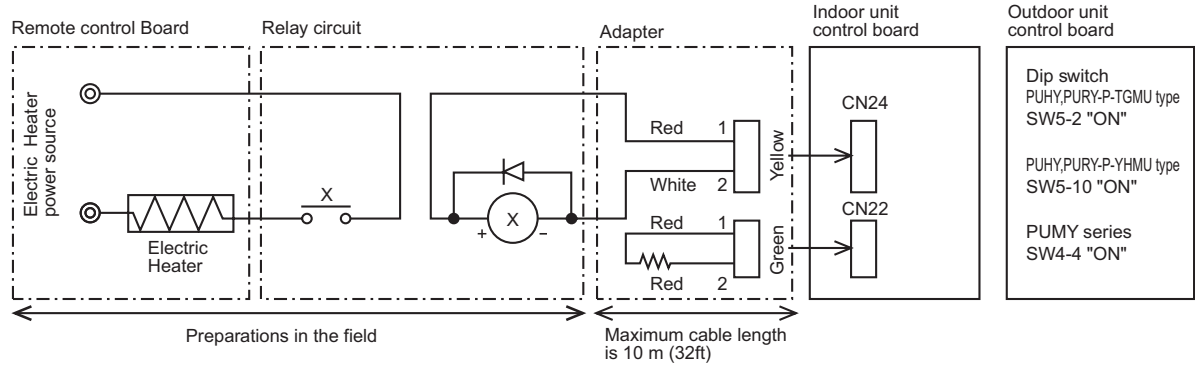
7-3. Condensate pump EE1750-230

To be conformed.

7-4. External heater adaptor PAC-YU24HT

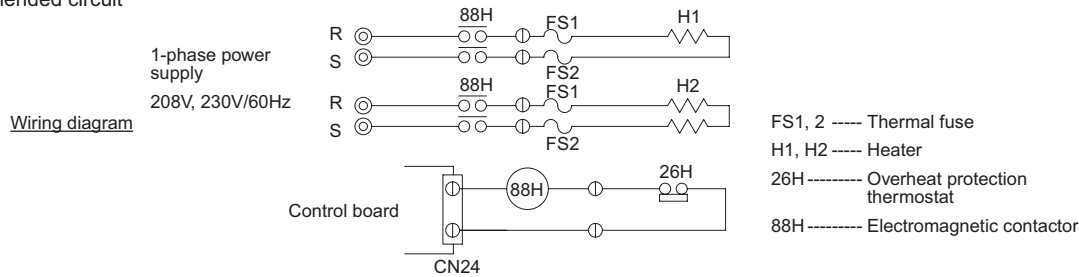
External heater adaptor PAC-YU24HT is a set of special wiring parts for controlling the electric heater* with the air conditioner system.
*The electric heater should be designed and prepared at the site.

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
* 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-YU24HT 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)

Recommended circuit



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

Wiring details and Installation details should be referred to its Installation Manual. (WT04645X02)