

SUBMITTAL DATA: PCA-A30KA4 & PUZ-HA30NHA2 30,000 BTU/H CEILING-SUSPENDED HYPER HEAT-PUMP SYSTEM

Job Name:	Location:	Date:
Purchaser:	Engineer:	
Submitted to:	For ☐ Reference ☐ Approval ☐ Construction	
System Designation:	Schedule No.:	

GENERAL FEATURES

- Innovative flash technology enables high heating capacity at lower outside temperatures
- Exhibits 100% of rated heating capacity at 5°F; 90% of rated heating capacity at -4°F
- Standard air filter is included with indoor unit; high-efficiency filter is available as an option
- Optional Hand-held Wireless Remote Controller with Receiver Kit is available with or without i-see Sensor
- Limited warranty: five years on parts and defects and seven years on compressors

OPTIONAL ACCESSORIES
Indoor Unit

- ☐ Condensate Pump (PAC-SH84DM-E)
- ☐ High-efficiency Filter (MERV 8) (PAC-SH89KF-E)

Outdoor Unit

- ☐ M-NET Adapter (PAC-SF81MA-E)
- ☐ Air Outlet Guide (PAC-SG59SG-E; two pieces are required)
- ☐ Wind Baffle (WB-PA2; two pieces are required)

Controller Options

- ☐ Wall-mounted Wired Remote Controller (PAR-21MAA)
- ☐ M-NET Adapter (PAC-SF81MA)
- ☐ CN51 Connector for Multiple Remote Controller Adapters/Duct Fan Controller (PAC-725AD)
- ☐ CN24 Relay Kit (CN24RELAY-KIT-CM)
- ☐ External Heat Adapter (CN24RELAY-KIT-CM3)
- ☐ CN32 Connector for Remote On/Off (PAC-715AD)
- ☐ Remote Temperature Sensor (PAC-SE41TS)
- ☐ Remote Operation Adapter - Display and On/Off (PAC-SF40RM)
- ☐ Wireless Remote Control with Receiver Kit (PAR-SL93B-E)
- ☐ i-see Sensor Corner Panel (PAC-SA1ME)
- ☐ Wireless Remote Control with Receiver and i-see Sensor Kit (PAR-SA92MW-E)
- ☐ i-see Sensor (PAC-SH91MK-E)
- ☐ Lockdown Bracket for Hand-held Controller (RCMKP1CB)
- ☐ Control/Service Tool (PAC-SK52ST)

Cooling*

Rated Capacity 30,000 Btu/h
Minimum Capacity 18,000 Btu/h
SEER 16.1 Btu/h/W
Total Input 2,480 W

Heating at 47°F*

Rated Capacity 32,000 Btu/h
Minimum Capacity 18,000 Btu/h
HSPF (IV) 9.3 Btu/h/W
Total Input 2,990 W

Heating at 17°F*

Rated Capacity 19,000 Btu/h
Rated Total Input 2,830 W
Maximum Capacity 32,000 Btu/h
Maximum Total Input 5,170 W

* Rating Conditions (Cooling) - Indoor: 80°F (27°C) DB / 67°F (19°C) WB. Outdoor: 95°F (35°C) DB / 75°F (24°C) WB.

(Heating) - Indoor: 70°F (21°C) DB / 60°F (16°C) WB. Outdoor: 47°F (8°C) DB / 43°F (6°C) WB.

(Heating) - Indoor: 70°F (21°C) DB / 60°F (16°C) WB. Outdoor: 17°F (-8°C) DB / 15°F (-9°C) WB.

Heating at 5°F

Maximum Capacity 32,000 Btu/h
Maximum Input 5,830 W

Electrical Requirements

Power Supply 208 / 230V, 1-Phase, 60 Hz
Breaker Size 30 A

Voltage

Indoor - Outdoor S1-S2 AC 208 / 230V
Indoor - Outdoor S2-S3 DC 24V
Indoor - Remote Controller DC 12V



Indoor Unit: PCA-A30KA4



Outdoor Unit: PUZ-HA30NHA2

OPERATING RANGE

		Indoor Intake Air Temp.	Outdoor Intake Air Temp.
Cooling	Maximum	90°F (32°C) DB, 73°F (23°C) WB	115°F (46°C) DB
	Minimum	66°F (19°C) DB, 59°F (15°C) WB	0°F** (-18°C) DB
Heating	Maximum	83°F (28°C) DB	70°F (21°C) DB, 59°F (15°C) WB
	Minimum	63°F (17°C) DB	-13°F (-25°C) DB, -13°F (-25°C) WB

** With optional wind baffle accessory installed. If not installed, the minimum temperature will be 23°F (-5°C) DB.

Indoor Unit

MCA 1 A
Fan Motor 0.54 F.L.A.
Fan Motor Output 95 W
Airflow (Lo - M1 - M2 - Hi) 565 - 600 - 635 - 705 Dry CFM
530 - 565 - 600 - 670 Wet CFM
Sound Pressure Level (Lo - M1 - M2 - Hi) .. 35 - 37 - 39 - 41 dB(A)

DIMENSIONS	UNIT INCHES / MM
W	50-3/8 / 1,280
D	26-3/4 / 680
H	9-1/16 / 230

Weight 71 lbs. / 32 kg
External Finish Munsell No. 6.4 8.9 / 0.4
Field Drainpipe Size O.D. 1-1/16" / 26 mm
Wall-mounted Remote Controller PAR-21MAA
(See Data Submittal Sheet)

Outdoor Unit

Compressor DC Inverter-driven Scroll
MCA 28
Fan Motor 0.4 + 0.4 F.L.A.
Sound Pressure Level
Cooling 52 dB(A)
Heating 53 dB(A)

DIMENSIONS	INCHES / MM
W	37-3/8 / 950
D	13 + 1-3/16 / 330 + 30
H	53-1/8 / 1,350

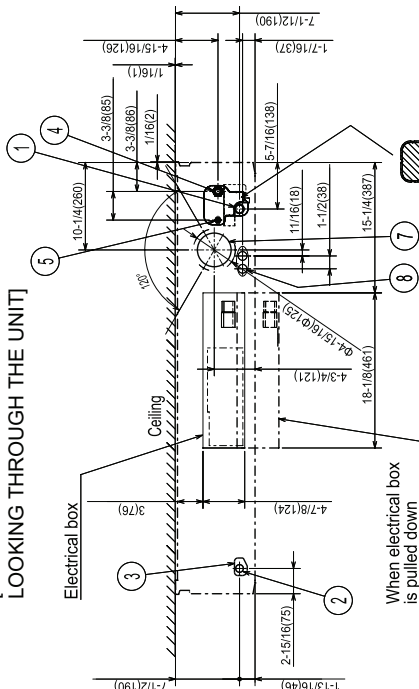
Weight 265 lbs. / 120 kg
External Finish Munsell No. 3Y 7.8 / 1.1
Refrigerant Type R410A
Refrigerant Pipe Size O.D.
Gas Side 5/8" / 15.88 mm
Liquid Side 3/8" / 9.52 mm
Max. Refrigerant Pipe Length 245' / 75 m
Max. Refrigerant Pipe Height Difference 100' / 30 m
Connection Method Flared



DIMENSIONS: PCA-A30KA4

Unit: inch (mm)

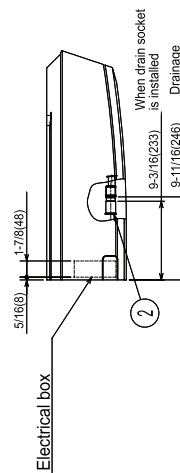
[FRONT VIEW
LOOKING THROUGH THE UNIT]



If the piping is installed in the back of the unit, remove the shaded portions from the component at right. Then, reinstall the component in its original position (the heat exchanger might be clogged because of dust).

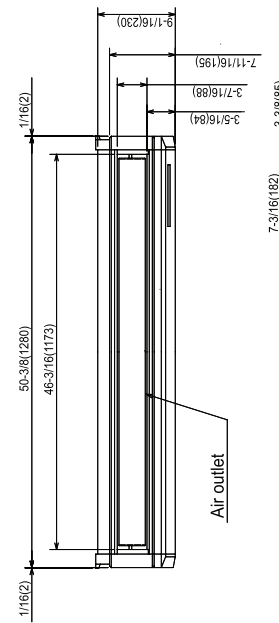
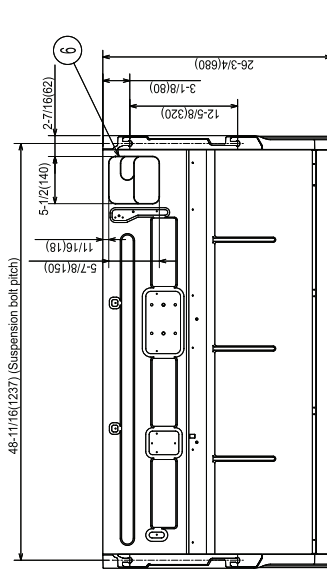


When electrical box is pulled down



When drain socket is installed

[BACK VIEW]

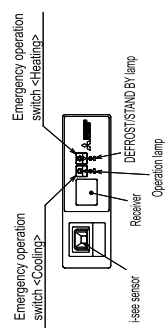


Air outlet

Air intake

- ① Drainage pipe connection(1" [26mm] I.D.)
 - ② Drainage pipe connection(for the left arrangement)
 - ③ Knockout hole for left drain-piping arrangement
 - ④ Refrigerant-pipe connection(gas pipe side/flared connection)
 - ⑤ Refrigerant-pipe connection(liquid pipe side/flared connection)
 - ⑥ Knockout hole for upper drain pipe arrangement
 - ⑦ Knockout hole for ventilation air intake $\Phi 3-15/16(\Phi 100)$
 - ⑧ Knockout hole for wiring arrangement $\Phi 7/8(\Phi 22)$
- Accessory...Drain socket (1" [26mm] I.D.)

In case of wireless remote controller and i-see sensor(Optional Parts)



NOTES.

1. Use M10 or W3/8 screw for anchor bolt.
2. Please be sure when installing the drain lift mechanism(option parts),refrigerant pipe will be only upward.

DIMENSIONS: PUZ-HA30NHA2

Unit : mm<inch>

3 FOUNDATION BOLTS

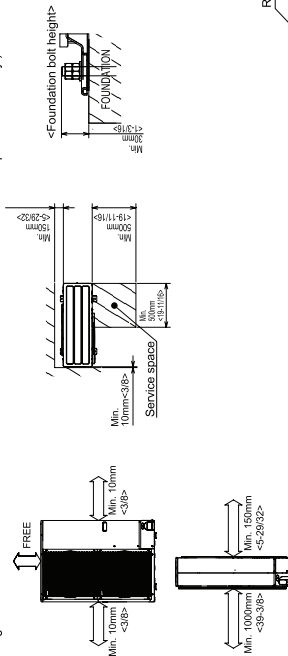
Please secure the unit firmly with 4 foundation (M10×W3/8) bolts. (Bolts and washers must be purchased locally.)

2 SERVICE SPACE

Dimensions of space needed for service access are shown in the below diagram.

1 FREE SPACE (Around the unit)

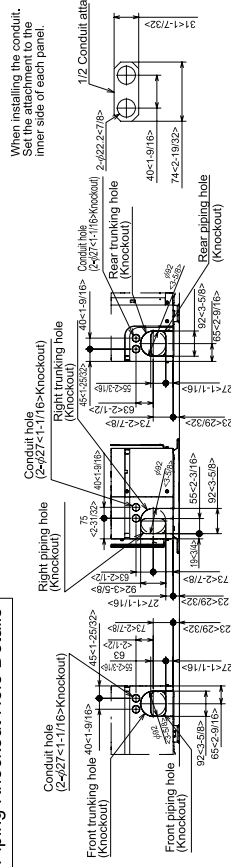
The diagram below shows a basic example. Explanation of particular details are given in the installation manuals etc.



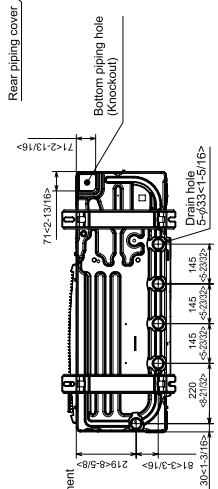
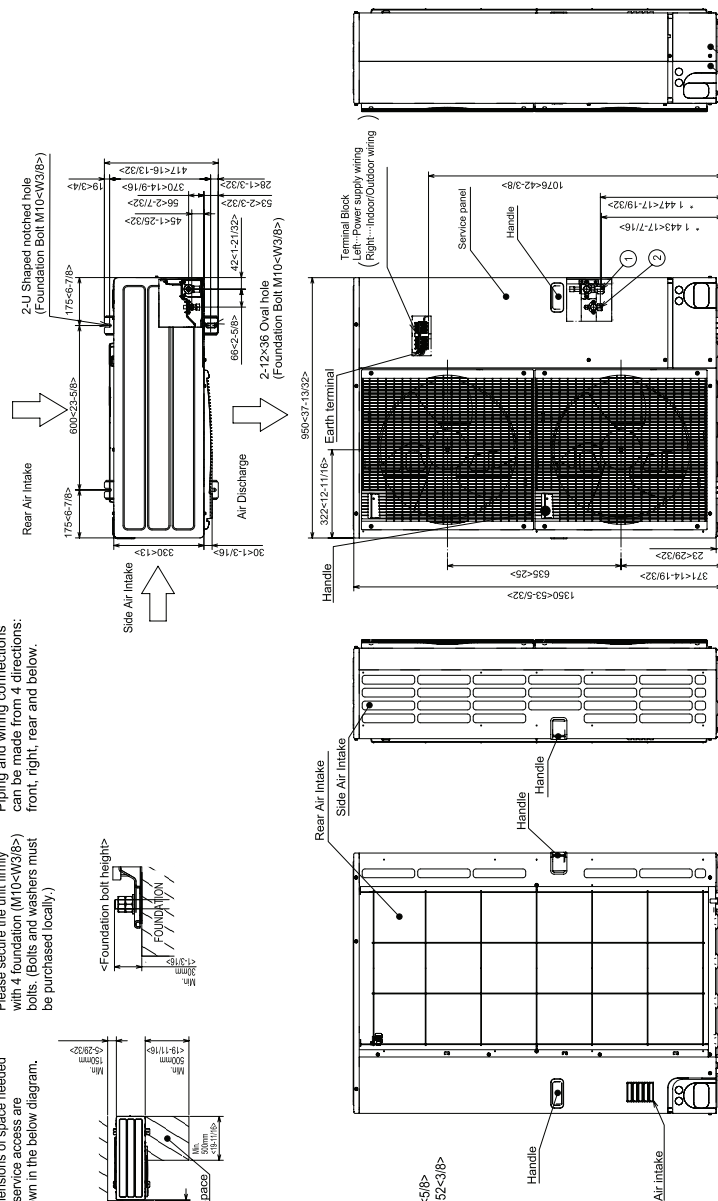
Example of Notes

- ① --- Refrigerant GAS pipe connection (FLARE) / 15.88<5/8>
- ② --- Refrigerant LIQUID pipe connection (FLARE) / 9.52<3/8>
- 1 --- Indication of STOP VALVE connection location.

Piping Knockout Hole Details



When installing the conduit, Set the attachment to the inner side of each panel.



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