

OMEGA INVERTER PTAC

SUBMITTAL DATA

208-230V/1/60Hz

Job: Holiday INN
Location: St Vincent
Schedule No.: 10506
System Designation: VRF

Engineer:
Architect:
Location:
Date: 04/18/22

For Reference Approval Review Construction

FEATURES

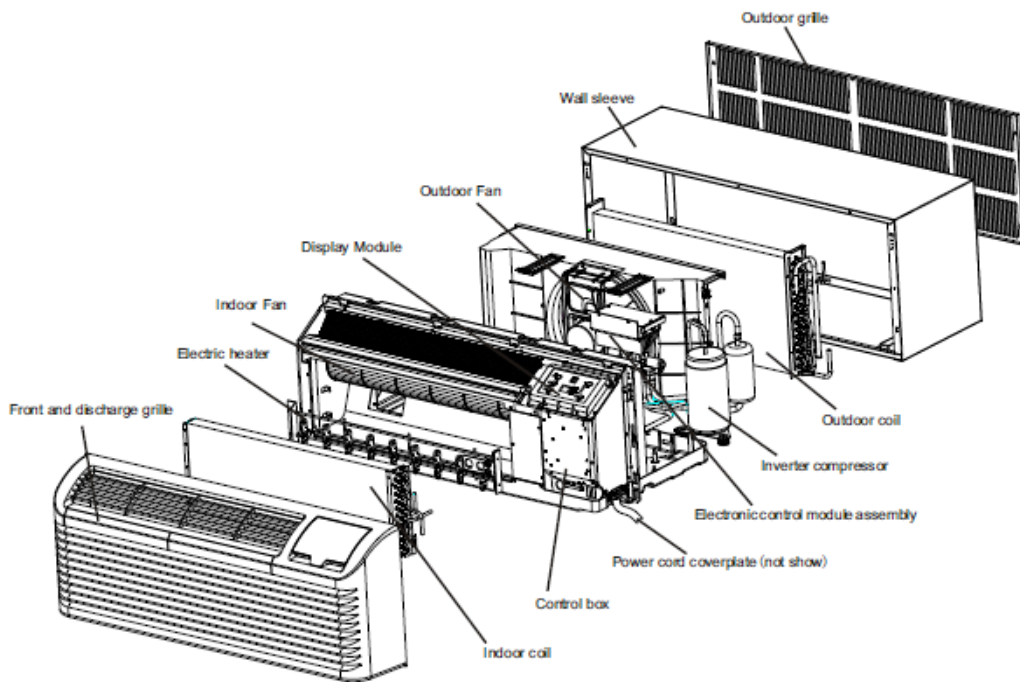
- DC Inverter Compressor.
- ETL Listed.
- LCDI Power Cord.
- R410A Refrigerant.
- Random Restart Delay.
- High Performance IPM.



1-Unit Specs
***PTJA Series**


		PTJA INVERTER				
		MODEL NO.	PTJA	009E2A-G2D028	012E2A-G2D035	015E2A-G2C042
Cooling Capacity (AHRI)	BTU/h (kW) @ 230V		9,600 (2.81)	12,200 (3.58)	15,200 (4.54)	
	BTU/h (kW) @ 208V		9,400 (2.75)	12,000 (3.52)	15,000 (4.40)	
	BTU/h (kW) Minimum		5,800 (1.70)	7,000 (2.05)	7,000 (2.05)	
	BTU/h (kW) Maximum		10,400 (3.05)	12,950 (3.80)	16,200 (4.75)	
Heating Capacity	BTU/h (kW) @ 230V		8,800 (2.58)	11,900 (3.49)	13,800 (4.04)	
	BTU/h (kW) @ 208V		8,500 (2.50)	11,800 (3.46)	13,600 (3.99)	
AHRI (EER)	BTU/h / W (W/W) @ 208V		11.7 (3.43)	11.5 (3.37)	10.8 (3.17)	
AHRI COP (W/W)			3.5	3.6	3.4	
Electric Heaters Available (kW)			2/3	2/3/5	2/3/5	
Coil Type		Hydrophilic Aluminum Blue Slit Fins				
Refrigerant Control		Capillary tube				
Indoor Fan	Type	Crossflow Blower				
	Speed	3				
	Motor (W)	55	66	66		
	Air Flow (Hi)	CFM (m³/hr)	295 (500)	352 (600)	352 (600)	
Compressor Type.		MITSUBISHI Rotary Inverter				
Electrical	Voltage	208V~230V/1/60Hz				
	Voltage Range min~max	160V~270V				
	Rated Current Amp	Cooling	3.9	5.4	7.0	
		Heating	3.7	4.9	6.7	
	Power Input Watts	Cooling	820	1100	1420	
Heating		765	1025	1390		
Noise Level	Indoor Side	dBA (Hi/Lo)	43 / 35	44 / 36	44 / 36	
	Outdoor Side	dBA (Hi)	66	66	66	
Controls		Built in Digital Controls with Wireless Remote Control (Optional)				
Refrigerant R410A Charge (oz)			26.8	33.5	33.5	
Dimensions inches (mm)	Height		24 (610)	24 (610)	24 (610)	
	Width		44 7/8 (1140)	44 7/8 (1140)	44 7/8 (1140)	
	Depth		18 7/8 (480)	18 7/8 (480)	18 7/8 (480)	
Plug Type (Amp)			15	15	15	
Net Weight lbs (kgs)			103.4 (47)	107.8 (49)	107.8 (49)	
Loading Quantity (W/Sleeve)	20 GP		72			
	40 GP		152			
	40 HC		190			

2-DIMENSIONAL DRAWINGS - (in)



WALL SLEEVE ASSEMBLY (OPTIONAL ACCESSORY)

Two kinds of wall sleeve are optional for customers, one is reassemble wall sleeve and the other one is welding integrated wall sleeve.

Removable Wall Sleeve

The removable wall sleeve can be removed and occupies less space and is convenient to transport. Follow the below steps to install :

- a) Unpack all parts and accessories, referring to Fig 1.
- b) Assemble the wall sleeve by first “clip locking” the side pieces to the bottom piece.
- c) Assemble the top piece to the assembled side and top piece.

Welded integrated wall sleeve

Welded integrated wall sleeve is featured by artistic appearance and stable structure referring to Fig 2. Customers can purchase together with unit.

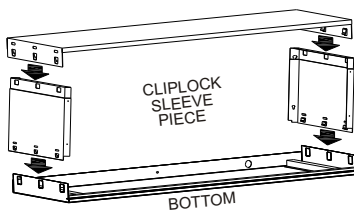


Fig 1

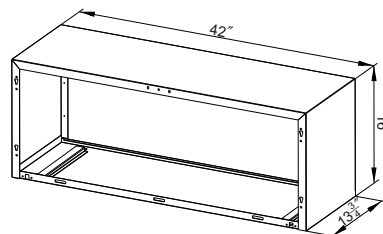


Fig 2

2-DIMENSIONAL DRAWINGS - (in)

SLEEVE INSTALLATION

Wall sleeve location

When making the wall opening, please observe the following requirement:

- A) The air inlet and outlet should be unblocked and the air can be delivered to every corner of the room
- B) Install the unit in places that are away from heat source or sources of flammable gases.
- C) Do not install the unit in places that are subject to strong dust
- D) Do not install the unit in places where the operational noise and exhausted air might trouble your neighbour.
- E) There should be sufficient space margins around the unit to facilitate maintenance and repairs (refer to Figs 3 and 4)

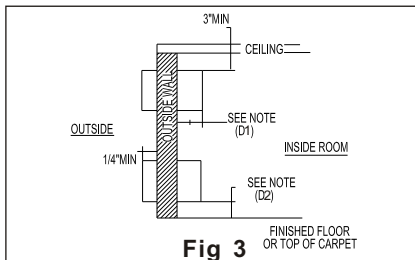


Fig 3

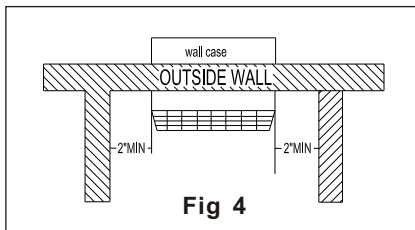


Fig 4

Chart 1

Dimensions	Recommended installation clearance
D1	Projection of case into room-1/2" minimum up to 1-3/4" maximum without use of electrical sub-base. Note: 2-3/8" minimum when sub-base is used.
D2	Height above finished floor or top of carpet-1/2" minimum, 2" recommended without sub-base-3" minimum with sub-base.

Preparation of the wall

The sleeve should be installed during construction and lintels should be used to support the block above the wall sleeve. The sleeve can not support the load of bricks/blocks.

For existing construction, wall opening must be created, the proper dimensions are necessary to avoid use of fillers or additional framing. The sleeve is modular in height and width (refer to Fig 5 & Chart 2).

Height:

- Fits 2 courses concrete block
- Fits 6 courses standard brick
- Fits 5 courses jumbo brick

Width:

Fit approximately 3 stud spaces.

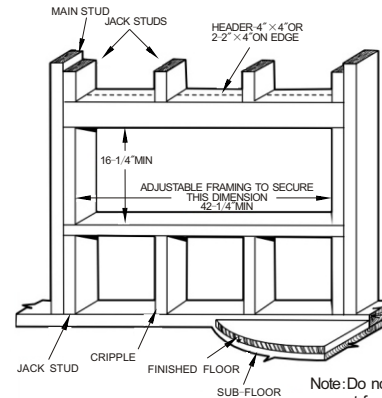


Fig 5

Note: Do not remove the stiffener support from inside the wall case until the chassis is to be installed.

Chart 2

	minium finished opening dimensions		sleeve dimensions		
	Height	width	height	width	depth
NO. 1	16-1/4"	42-1/2"	16"	42"	13-3/4" (16"/18"/24")
NO. 2	16-1/4"	42-1/4"			

NOTE: NO. 1 means using field supplied sleeve angles
NO. 2 means not using field supplied sleeve angles

In order for condensate water to drain properly inside the unit, the sleeve must be installed properly:

- Level from right to left.
- A slight downward pitch from the indoor side to the out-door side as shown below (Fig 6).
- Fasten the wall sleeve (Fig 7).

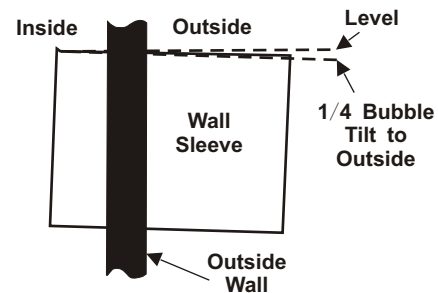


Fig 6 Proper Sleeve Tilt

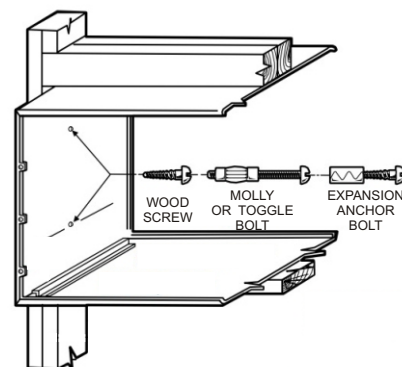


Fig 7

3-ELECTRICAL WIRING

WIRING

230~208V units are equipped with LCDI power cords and can open the electrical circuit to the unit. In the event the unit does not operate, check the reset button located on or near the head of the power cord as part of the normal troubleshooting procedure.

⚠ WARNING

HIGH VOLTAGE
DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES BE PRESENT, FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.
DO NOT SERVICE THIS UNIT WITHOUT FIRST SHUTTING OFF THE POWER TO THE UNIT FROM THE CIRCUIT BREAKER AND/OR REMOVING THE UNIT CORD SET PLUG FROM THE WALL OUTLET.

⚠ WARNING

TO AVOID THE RISK OF PROPERTY DAMAGE, PERSONAL INJURY OR FIRE, USE ONLY COPPER CONDUCTORS.

⚠ WARNING

TO AVOID PROPERTY DAMAGE, PERSONAL INJURY OR DEATH DUE TO ELECTRICAL SHOCK, DO NOT USE AN EXTENSION CORD WITH THIS UNIT.

⚠ WARNING

TO AVOID THE RISK OF PROPERTY DAMAGE, PERSONAL INJURY OR FIRE DO NOT INSTALL WITH POWER CORD STRETCHED OR UNDER A STRAIN AS THIS MAY CREATE LOOSE PLUG/RECEPTACLE CONNECTION.

⚠ WARNING

TO AVOID THE RISK OF PERSONAL INJURY, WIRING TO THE UNIT MUST BE PROPERLY POLARIZED AND GROUNDED.

⚠ WARNING

THIS AIR CONDITIONER IS NOT MEANT TO PROVIDE UNATTENDED COOLING OR LIFE SUPPORT FOR PERSONS OR ANIMALS WHO ARE UNABLE REACT TO THE FAILURE OF THIS PRODUCT.
THE FAILURE OF AN UNATTENDED AIR CONDITIONER MAY RESULT IN EXTREME HEAT IN THE CONDITIONED SPACE CAUSING OVERHEATING OR DEATH OF PERSONS OR ANIMALS.

VOLTAGE MEASUREMENTS

Once the unit is properly wired, measure the unit supply voltage. Voltage must fall within the voltage utilization range given in Chart 3.

Operating Voltage		
Unit Voltage	Voltage Utilization Range	
Rating	Minimum	Maximum
230/208	197	253

Chart 3 - Operating Voltage

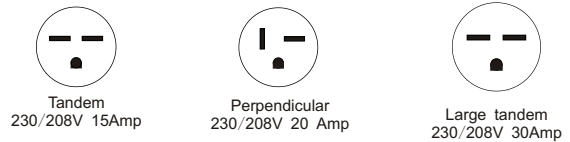
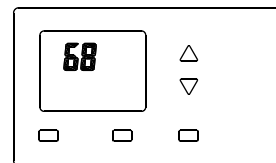
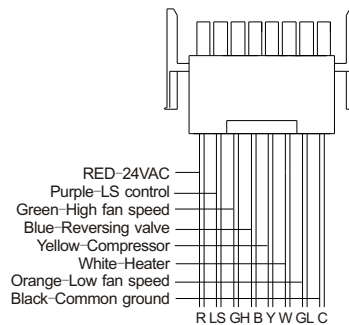
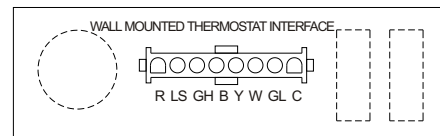
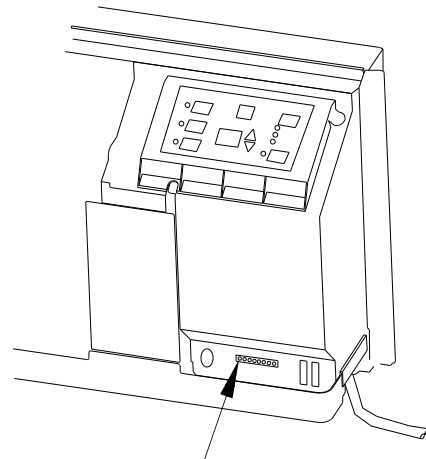


Fig 8 Receptacles/Sub-bases



Thermostat

Fig 9 wall mounted thermostat wiring

NOTE: See the "Remote Thermostat Change" instructions before use the thermostat.