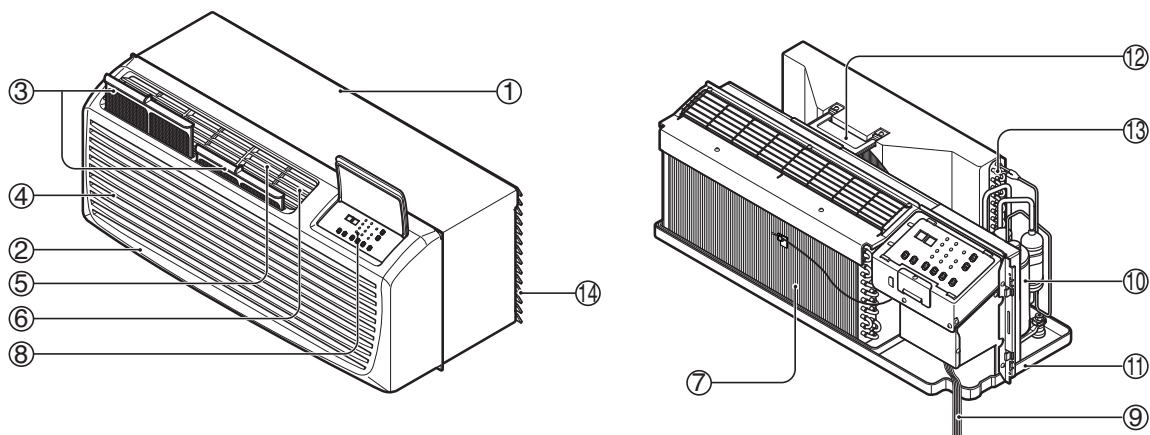


2.4 Installation of unit

The PTAC and its components are as shown below.



1. WALL SLEEVE
2. FRONT GRILLE
3. AIR FILTER
4. AIR INTAKE
5. AIR DISCHARGE

6. VERTICAL AIR DEFLECTOR
(HORIZONTAL LOUVER)
7. EVAPORATOR
8. CONTROL PANEL
9. POWER CORD
10. COMPRESSOR

11. BASE PAN
12. BRACE
13. CONDENSER
14. OUTDOOR GRILLE (ARCHITECTURAL GRILLE)

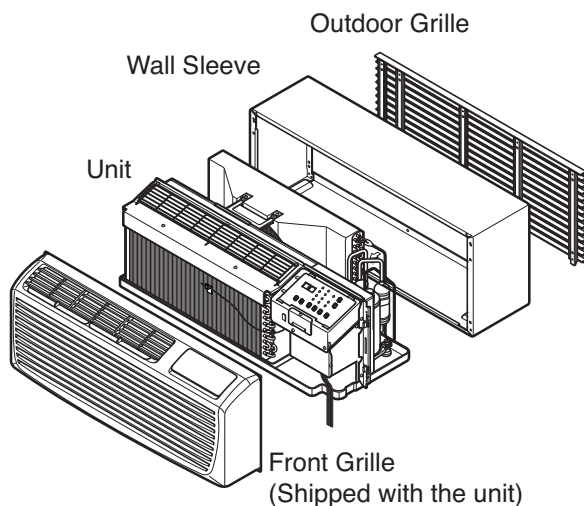
Use the correct wall sleeve and outdoor grille

This unit is designed to be installed in the insulated wall sleeve. When you place the unit into the existing sleeve, the wall sleeve used to mount the new unit must be in good structural condition and have the outdoor grille that securely attaches to the sleeve or the flange of the sleeve to secure the new air conditioner.

With the LG sleeve, you can maintain the best performance of the new air conditioner.

If you keep the existing sleeve, you run the risk of poor performance or product failure. This is not covered under the LG warranty.

Remove the vertical deflectors in the existing grille to reduce condenser air recirculation that can cause the unit to poor cooling or heating and component failure.



CAUTION

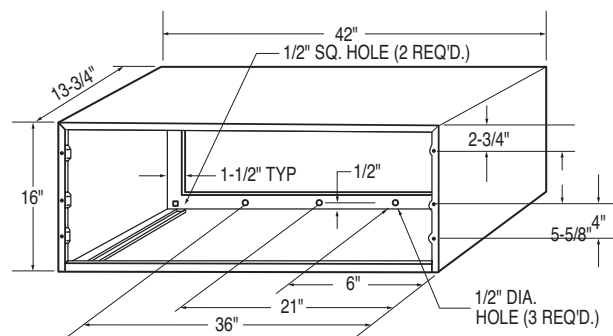
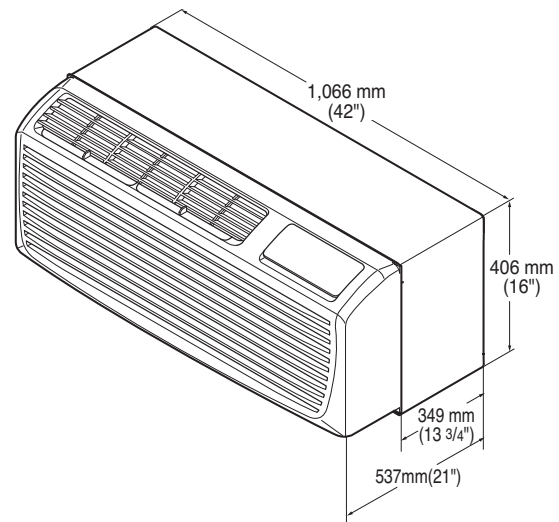
- There are sharp edges that can cause serious cuts.
- When lifting the air conditioner.
Use 2 people to lift.(the unit is heavy)

For existing sleeve, you should measure the wall sleeve dimensions.

Install the new air conditioner according to these installation instructions to achieve the best performance. The wall sleeve used to mount the new air conditioner must be in good structural condition and have a rear grille that securely attaches to the sleeve or the flange of the sleeve to secure the new air conditioner.

- To avoid vibration and noise, make sure the unit is installed securely and firmly.

When installing the sleeve & Front grille, make certain there is nothing within 20" Back & front of sleeve & front grille, that would interfere with heat radiation and exhaust air flow.

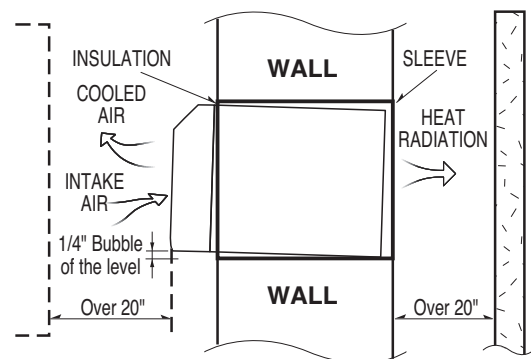
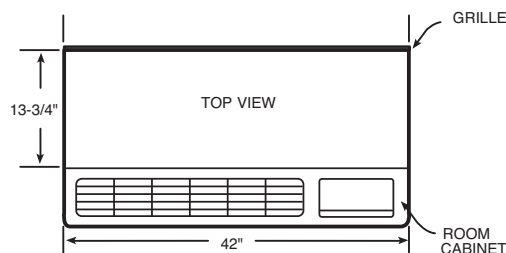


Wall opening 16-1/4"x42-1/4"

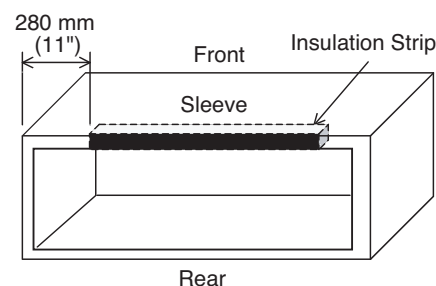
Recommended

To maintain the best performance of LG PTAC

1. An insulation strip must be attached. The insulation strip is provided with the box.
2. After assembly of sleeve & Front grille, the gap should be 20" from both sleeve & grille. For assembly PTAC Model refer the diagram given below.



- 1) Take out the insulation strip from the upper packing.
- 2) Attach the insulation strip onto the rear upper side of the wall sleeve.
- 3) Insulation strip prevents the exhaust air from re-entering from either side of condenser space which may decrease the cooling efficiency of condenser.



2.5 WALL SLEEVE INSTALLATION

Wall Case Installation Data

General

Generally, units are installed 3" to 5" above the floor (flush to finished floor installation is possible) as near to the center of the room as possible; underneath a window or a glass panel is typical. Normal installation of the wall case allows installation flexibility; from flush with the finished interior wall to a minimum of 1/4" of the wall case extending beyond the finished exterior of the building.

Special consideration must be given to installations where the wall case does not extend a minimum of 1/4" beyond the finished exterior wall.

Regardless of the installation, there are several things to consider when selecting a location for installing the unit. For instance, drapery location could interfere with air discharge, and placement of furniture may have an impact on the performance of the unit. The following information is intended to minimize installation problems and assure you of a trouble-free installation.

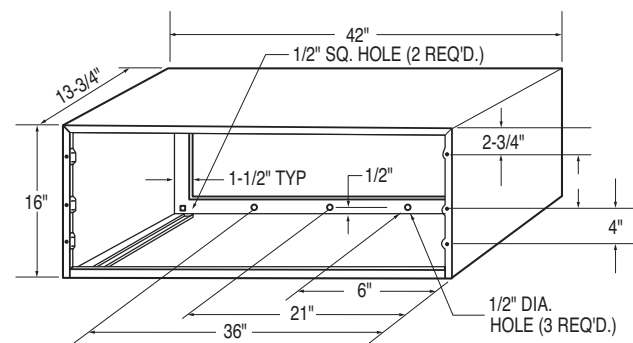
Refer to last page for required wall opening dimensions. Minimum recommended interior and exterior case projection for standard wall thicknesses are shown in the drawings in this manual. The case may be installed flush with the finished indoor wall.

Mounting an outdoor grille or louver section to the building face may cause a space between the outdoor coil and the louver section. Air splitters, aligned with the ends of the outdoor coil, must be installed between the outdoor coil inlet and outlet air streams. Gaps between the outdoor coil and the louver section may allow condenser air recirculation and affect the operation of the unit.

The wall case should be level from side to side and from level to 1/4 bubble tilt to the outdoors. The condensate disposal system in the unit is designed to dissipate the condensate water generated during cooling operation in accordance with ARI standards and actually uses this water for maximum unit efficiency. A level unit will also insure proper performance of the Internal Condensate Removal (ICR) system optional on heat pump units.

framing, moving electrical outlets, and other expensive modifications.

For existing construction it is important that carpentry, masonry and electrical work be performed by competent, qualified personnel. **Since installations in existing construction may involve removal of building material from the structure, location of the wall case must be precisely done.**

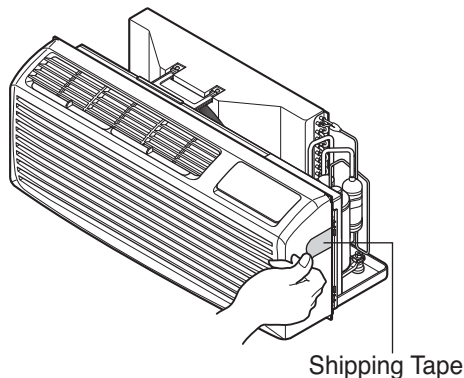


Wall opening 16-1/4"x42-1/4"

For new construction, early planning with the architect is necessary. Unit location, electrical connection locations, and wall openings of proper dimension are essential to avoid the necessity of rework, fillers,

Preparation of the front grille

Carefully remove shipping tape from the front grille.



Brick, Frame, Stucco and Shingle Construction

For new construction, the opening for the wall case should be framed and inserted into the opening during construction. Lintels should be used when the building material is heavy and is not self supporting (such as brick). The wall case will fit an opening of six courses of standard brick or five courses of jumbo brick. Wall framing in this type construction is normally on 16" centers and the wall case will fit a framed opening spanning three 16" O.C. 2" x 4" stud spaces.

For existing construction the indoor and outdoor wall will need to be cut out, allowing for clearances of 1/8" on all sides of the wall case. Work should begin on the inside wall. Cut the correct dimensions and mark (using drill holes) the outside wall from each corner of the inside cutout. Studding that interferes with the opening must be removed and a suitable frame constructed to secure the wall case and provide adequate support for case and chassis.

Preparation of the Wall Case for All Types of Construction

As shipped, the LG wall sleeve is ready for installation. Do not remove the stiffener from inside the wall case or the weather closure panel from the outside face of the wall case until the outdoor grille and chassis are ready to be installed.

Installation of Wall Case in Wall Opening

1. Position the wall case into the wall. The room side edge of the wall case should be at least flush with the finished wall for line cord installations and permanent connection installations when no sub-base is used, and should project into the room at least 2-3/8" when a sub-base is used. If the minimum exterior dimensions are not met, refer to page 60.

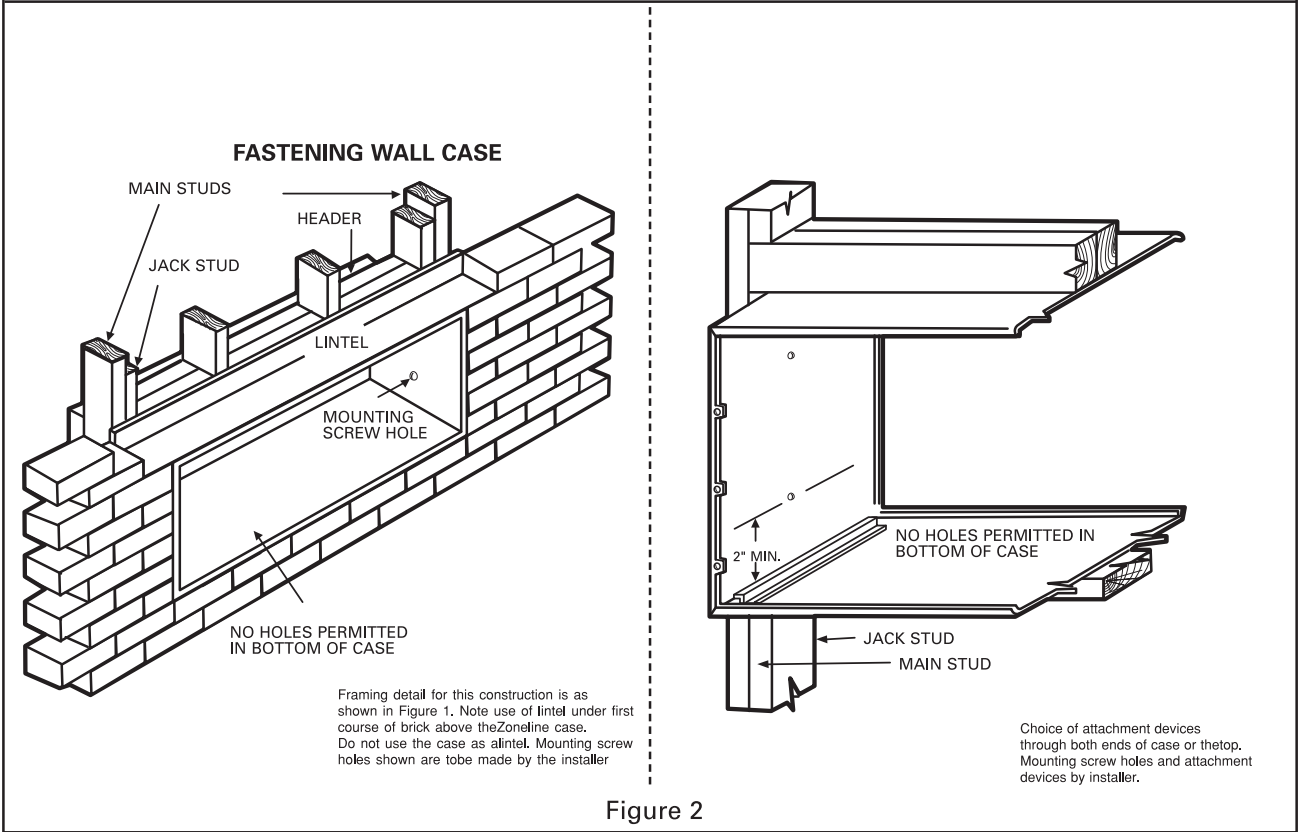
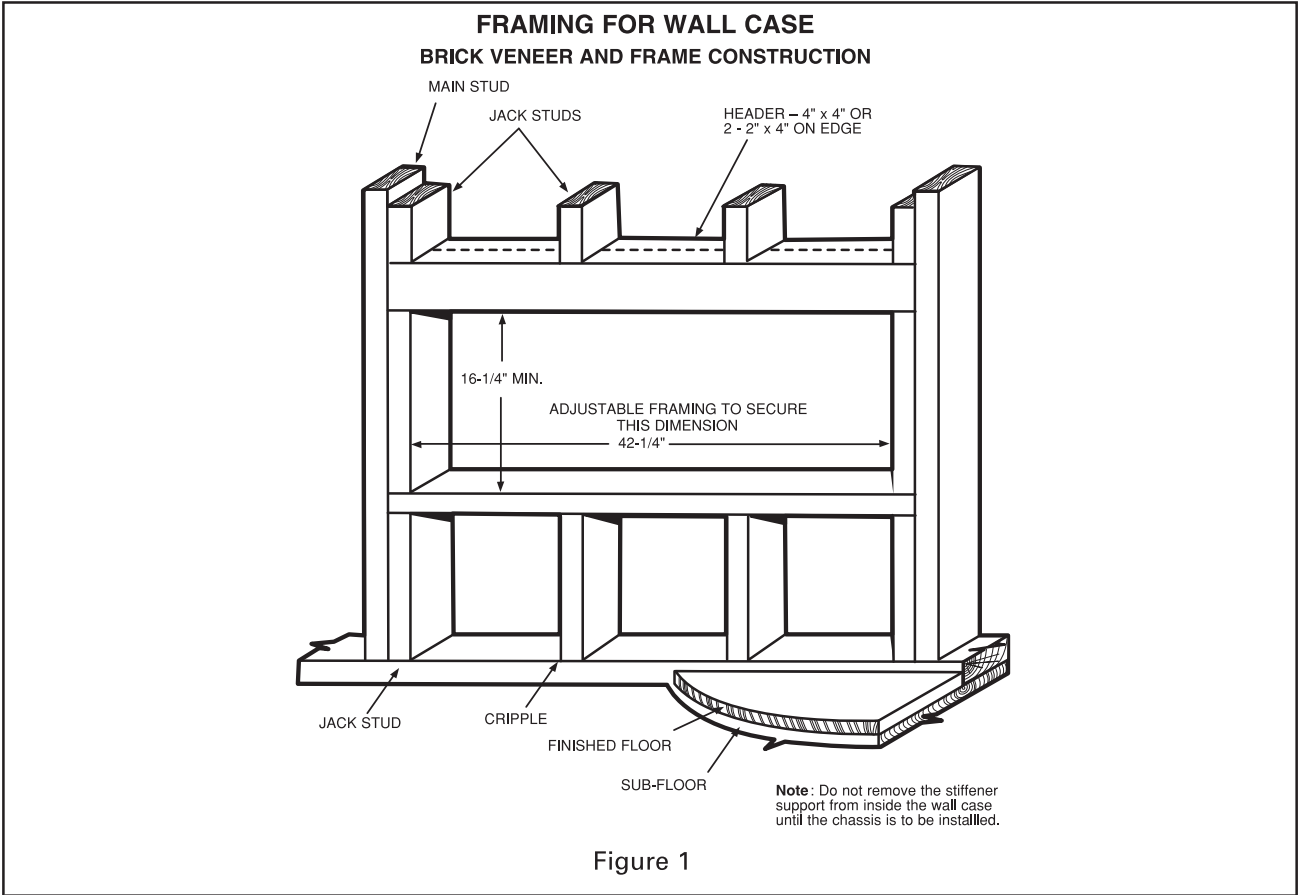
The outside edge of the wall case should extend at least 1/4" beyond the outside wall.

This is necessary for proper caulking, to prevent sealing the drain holes in the rear flange of the wall case, and to facilitate the installation of an accessory drain, if used.

The wall case should be level from side to side and from level to 1/4 bubble tilt to the outdoors. The condensate disposal system in the unit is designed to dissipate the condensate water generated during cooling operation in accordance with ARI standards and actually uses this water for maximum unit efficiency. A level unit will also insure proper performance of the Internal Condensate Removal (ICR) system optional on heat pump units.

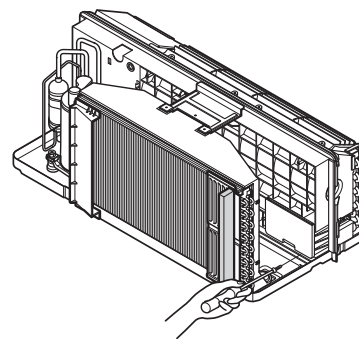
2. The wall case should be secured to the wall at both sides.
Use a minimum of two screws or other fastening device on each side. See Figure 2 page 60. Mark the wall case on each side 2" from the bottom and 2" from the top at a point where basic wall structure is located. Drill wall case and use fasteners appropriate for wall construction. All holes for fasteners in the side of the wall case must be at least 2" up from the bottom of the wall case.
Never fasten screws or put other holes in the bottom of the wall case.
If the wall opening is greater than the case dimensions, spacers must be used on the sides between the wall case and the wall support structure to prevent distorting the wall case.
3. Caulk or gasket the entire opening on the outside between the wall case and exterior wall surface (4 sides) to provide total water and air seal.
4. Caulk or gasket room-side opening between wall case and interior wall surface (4 sides). Opening beneath or around the wall case can allow outdoor air to leak into the room resulting in increased operating costs and improper room temperature control.

Care should be taken in location of electrical supply entry in relationship to wall sleeve to assure access to receptacle or junction box once unit is installed.

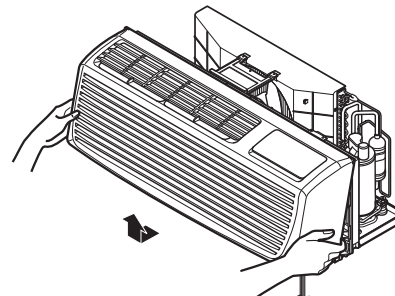


• unit installation

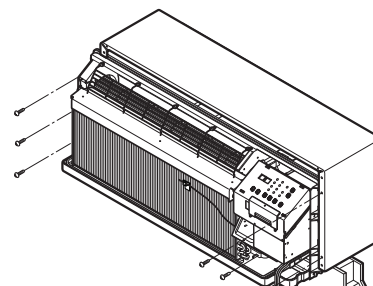
1. Remove the shipping screw from the ventilation door.



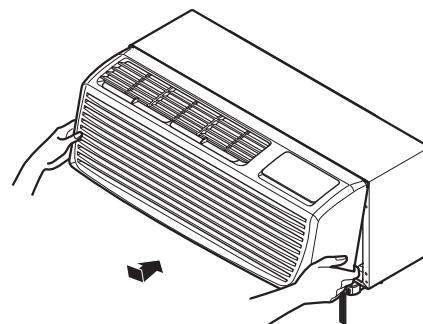
2. Remove the front grille by pulling it out at the bottom to release it, then lift it up along the unit top front.



3. Slide the unit into the wall sleeve and secure with 6 screws through the unit flange holes.

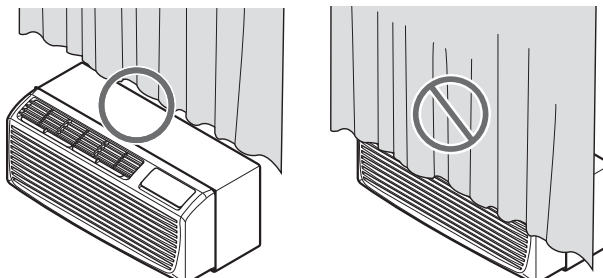


4. Reinstall the front grille by hooking the top over the unit top, then pushing it in at the bottom.



⚠ CAUTION

- Failure to follow this caution may result in equipment damage or improper operation.
- Blocking indoor (curtain or bedclothes etc.) or outdoor discharge air could cause premature failure of unit.



ELECTRICAL SAFETY

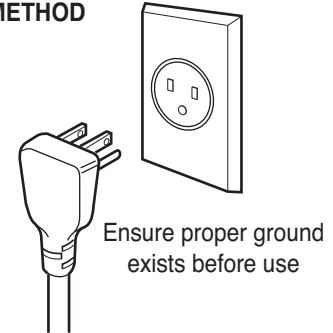
IMPORTANT (PLEASE READ CAREFULLY)

FOR THE USER'S PERSONAL SAFETY, THIS APPLIANCE MUST BE PROPERLY GROUNDED

The power cord of this appliance is equipped with a three-prong (grounding) plug. Use this with a standard three-slot (grounding) wall power outlet to minimize the hazard of electric shock. The customer should have the wall receptacle and circuit checked by a qualified electrician to make sure the receptacle is properly grounded.

DO NOT CUT OR REMOVE THE THIRD (GROUND) PRONG FROM THE POWER PLUG.

PREFERRED METHOD



FUSE – Use a time – delay fuse or circuit breaker. Refer to the nameplate for proper power supply requirements.



CAUTION

1. Do not use an extension cord with this unit.
2. When the unit is in the OFF position, the power supply to the electrical controls is still energized.
3. Disconnect the power to the unit before servicing the unit.
4. Remove the power cord from the wall receptacle.
5. Remove or turn off the protective device (fuses or circuit breaker).

Wirings including installation of the receptacle must comply with the NEC and local codes, local regulations.

FUSE- Use a time-delay fuse or circuit breaker. Refer to the nameplate for proper power supply requirements.

Installation(for 60Hz)

- Electric installation requirement for personal safety:
- This equipment must be properly connected to ground.
- Under no circumstances cut or break the grounder conductor.
- We recommend not to use an extension wire or any adaptor with this product.
- Follow the national or local electric codes.
- If the power supply does not fulfill the specifications previously mentioned, call an authorized electrician.
- The aluminum wired in the houses may bring about some problems, call an authorized electrician.
- This unit requires a separated power supply that works only for this application.

Use Wall Receptacle	Power Supply
<p>Standard 208/230V, 3-wire grounding receptacle rated 15A</p>	Use 15 AMP. time delay fuse or 15 AMP. Circuit breaker.
<p>Standard 208/230V, 3-wire grounding receptacle rated 20A</p>	Use 20 AMP. time delay fuse or 20 AMP. Circuit breaker. (2500W Heater →15Amp Circuit Breaker)
<p>Standard 208/230V, 3-wire grounding receptacle rated 30A</p>	Use 30 AMP. time delay fuse or 30 AMP. Circuit breaker.
<p>Standard 265V grounding receptacle rated 20A</p>	Use 20AMP,time delay fuse or 20AMP Circuit breaker (2000W Heater →15Amp Circuit Breaker)
<p>Standard 265V grounding receptacle rated 25A</p>	Use 25AMP,time delay fuse or 25AMP Circuit breaker
<p>Standard 265V grounding receptacle rated 30A</p>	Use 30AMP, time delay fuse or 30AMP Circuit breaker