

INSTALLATION INSTRUCTIONS

TOOLS NEEDED:

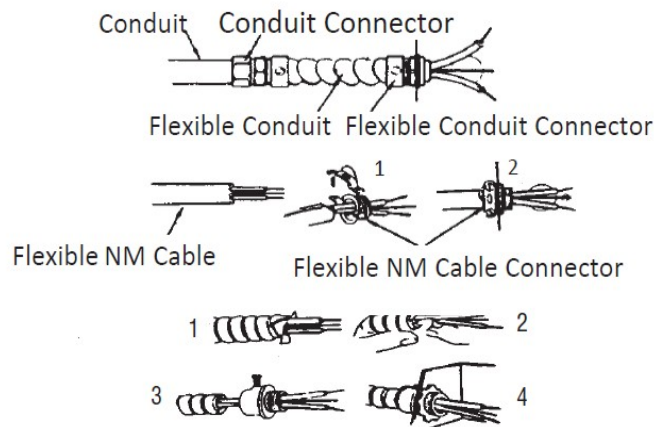
- Phillips head screwdriver
- Power Drill
- The remote control is powered by 2 AAA batteries. Batteries are NOT included
- 5/32 in. or 4 mm drill bit
- Stud Finder

HARDWARE REQUIRED FOR WIRING HEATER:

- Adequate gauge and length of copper wire (2 power conductors plus ground) suitable for application to route electrical panel to heater
- Suitable Junction Box and connectors as required for application
- Appropriate size wire nuts for connection branch circuit wires to pigtails.
- A length of flexible conduit (or as required by the NEC and local codes) to route power to heater.

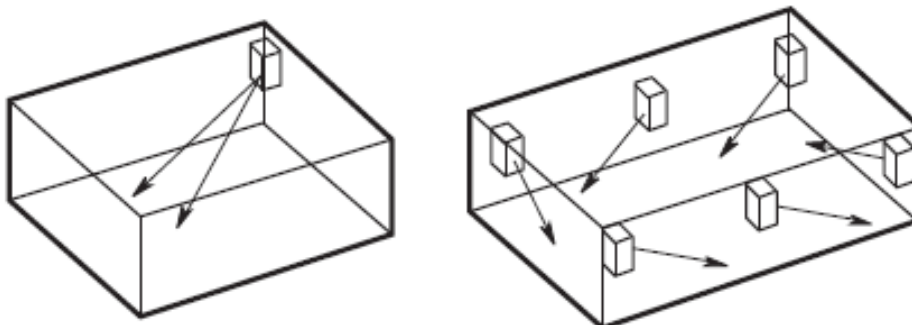
NOTE: Hardware supplied is intended for installation into wood framing only. If installation into other type of construction, additional hardware will be required for correct installation.

CONNECTORS, CABLE AND HARDWARE USED TO WIRE THE HEATER: Figure 2



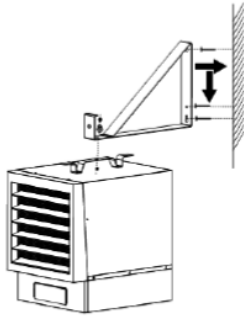
LOCATING THE HEATER: Figure 3

The heater should be installed out of traffic areas and at least 6' off the floor. (8" above floor in Canada) The direction of air flow should not be restricted (ie: by columns or machinery) and the air flow should wipe exposed walls, rather than blowing directly at them. When more than one heater is used in an area, the heaters should be arranged so that the air discharge of each heater supports the air flow of the others to provide best circulation of warm air, as indicated in the Figure below.



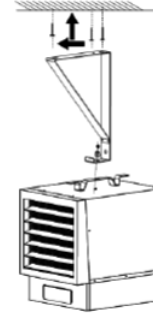
INSTALLATION INSTRUCTIONS

MOUNTING: Figure 4

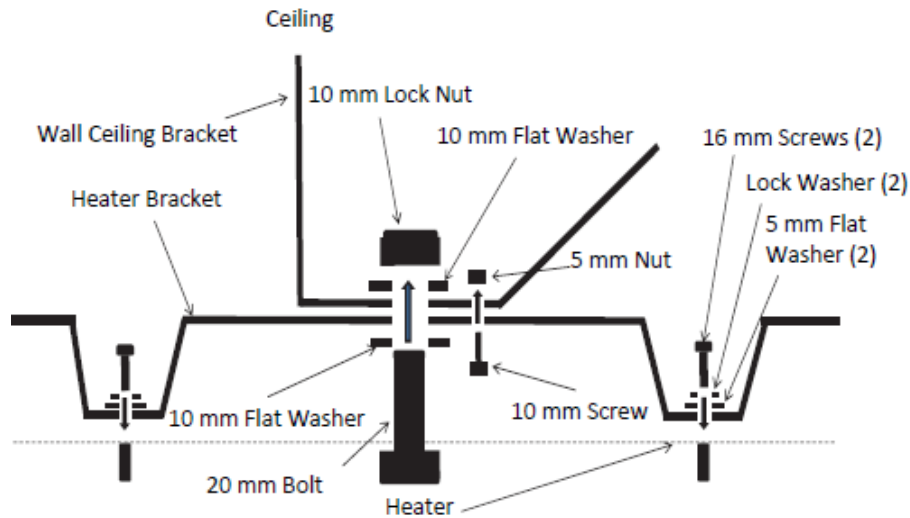


WALL MOUNTING

Figure 5

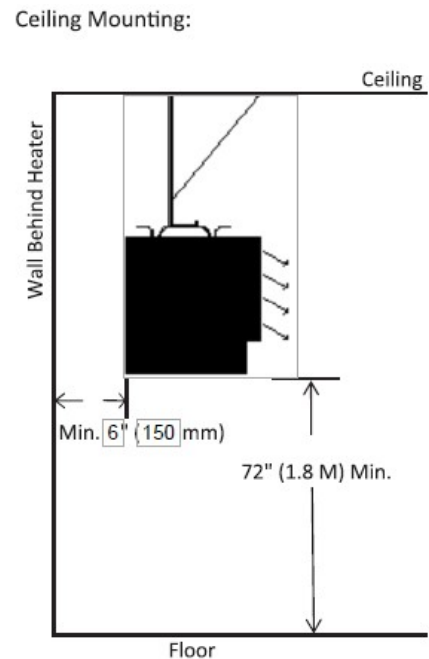
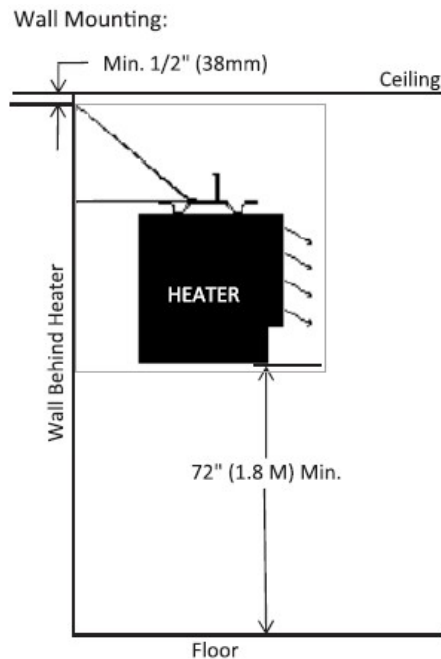


CEILING MOUNTING



DETAILED BRACKET ASSEMBLY ILLUSTRATION

MINIMUM CLEARANCES: Figure 6



INSTALLATION INSTRUCTIONS

- **WARNING:** Fall Hazard - Heater must be attached to a joist with 3 screws (two at keyhole slots and third safety screw at center hole) to prevent heater from possibly falling. The screws provided with heater are intended for installing in wood framing only and not intended for metal joists or other types of construction. If installation into other type of construction, additional hardware will be required for correct installation. All hardware must be tightened securely.

HEATER MOUNTING:

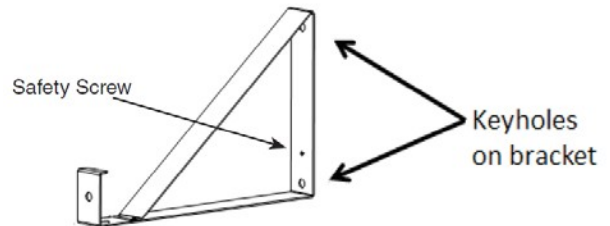
1. Locate the wood stud or joist in ceiling and mark line in location for heater to be installed. **NOTE:** The wall/ceiling mounting bracket allows installation onto a wall or ceiling using the specific mounting holes and minimum clearances as shown in Fig 4, 5, 6 and 7.
2. Determine the desired location for mounting making sure the minimum clearances as noted in this manual are maintained and using the bracket as a template, mark the two keyhole locations on the wall or ceiling for drilling.

Figure 7

3. Use the 5/32 in. (4 mm) drill bit to pre-drill two holes for screws at the locations marked in step 2.
4. Install two 2.5" (65 mm) screws into the holes leaving approximately 1/8" of the screw offset from the wall. Ensure that both screws are inserted at least 1.5" into the stud or joist.
5. Hook the mounting bracket onto the wall (or ceiling) by fitting the two keyholes on the bracket over the two screws and pushing the bracket down into place. Mark the location of the center (3rd safety) hole onto the wall or ceiling.
6. Use the 5/32 in. (4 mm) drill bit to pre-drill a hole for the 3rd safety screw.
7. Attach the heater handle bracket to the heater using the two screws and washers preassembled to the top of the heater making sure the smaller hole in bracket faces the rear of heater. Remove the screws and then attach bracket making sure both screws are tight.
8. Attach the wall/ceiling bracket to the heater using the larger 20 mm (.8") bolt, two flat washers and lock nuts as shown in Fig. 5. To prevent rotation, a small M10 mm bolt and nut are provided in the parts bag. Assemble this smaller screw into the small hole through wall bracket and heater bracket as shown in Fig. 5. and securely tighten both bolts.
9. Attach the heater and mounting bracket assembly to the wall (or ceiling):

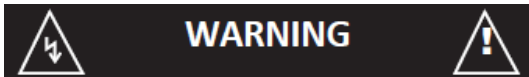
CAUTION - The keyhole slots are provided to assist in the installation by temporarily supporting the heater until the third safety screw is installed into the 3rd hole in bracket. Failure to install the 3rd safety screw in the center hole location in the bracket could allow the heater to fall.

- a. Hook bracket onto the two screws (installed at Step 4) by fitting heater and wall/ceiling bracket on the two screws through the keyholes on the bracket and pushing the bracket into place.
- b. Insert the third 2.5" (65 mm) safety screw through the center hole on the bracket and into the pre-drilled hole (Step 6) in the wall or ceiling.
- c. Tighten all three screws to secure the mounting bracket and heater assembly to the wall.



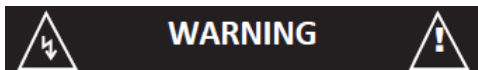
WIRING SUPPLEMENT FOR 220/240V

After heater has been properly mounted to the building structure and appropriate branch circuit wiring has been routed to the heater location in accordance with the National Electrical Code and local codes, the heater is now ready for the heater to be connected to the branch circuit.



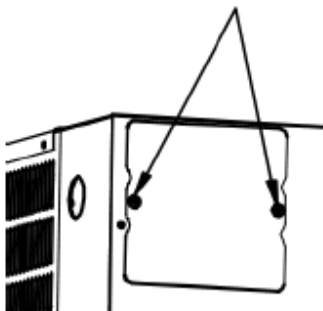
Risk of Electric Shock or Fire

Make sure electric power is disconnected at main electrical panel before attempting to connect heater to branch circuit. Verify branch circuit voltage is same as noted on heater nameplate. Connecting heater to a voltage greater than the heater nameplate rating could damage the heater and cause a fire.



This heater should be installed by qualified persons only and in accordance with the National Electric Code (Canadian Electrical Code in Canada) and all applicable local codes. Supply wiring must be copper and suitable for at least 75° C.
EWHS5500- minimum 10 gauge SJO or SJTO copper type wiring required
EWHS9600- minimum 6 gauge SJO or SJTO copper type wiring required

Figure 8: Wiring cover located at bottom of heater



Heater is provided with a 28.3mm hole into wiring compartment for routing of branch circuit conductors. Appropriate conduit and fittings must be provided for correct and safe installation.

1. Remove the field wiring cover located on bottom of heater by removing two screws. See Figure 8 for reference.
2. Bring branch circuit conductors to heater and into the heater box. Install appropriate cable clamp on the heater as shown in Figure 9.
3. Following the wiring diagrams in Figure 10 connect the supply wiring to the power block inside the wiring compartment.
 - Green pigtail - connect to earth ground
 - Black pigtail - connect to branch circuit L (1)
 - White pigtail - connect to branch circuit L (2)
4. Replace wiring box cover with two screws previously removed.
5. Adjust louvers to desired position; louvers are designed so that they cannot be completely closed. Do not attempt to defeat this safety feature.

Figure 9: Installing cable fitting to heater



Install appropriate cable clamp or fitting for supply being used.

Feed cable into fitting and clamp as shown leaving approximately 2" of cable inside heater for wire connections

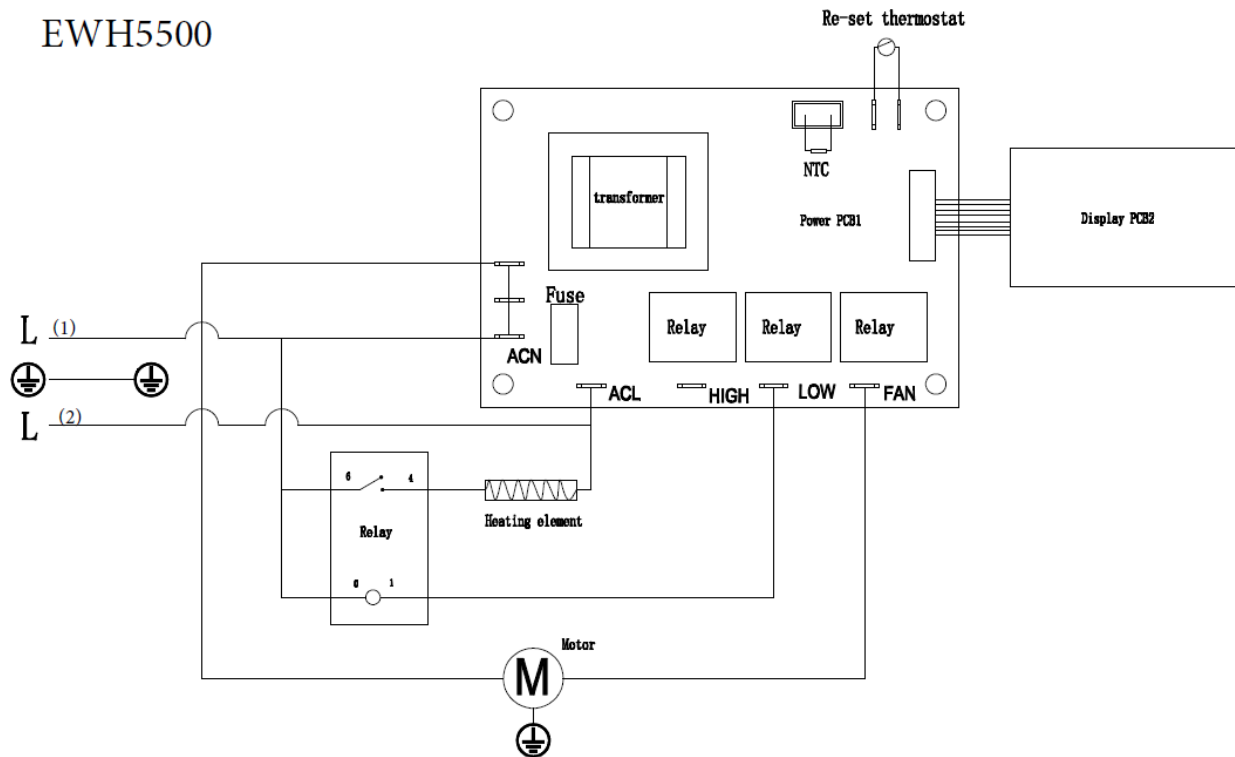
Figure 10 Removing wiring cover exposes wires
When wiring with 2 conductor cable with ground, the white wire must be marked black.



WIRING SUPPLEMENT FOR 220/240V

Wiring diagram for 5KW and 10KW

EW5500



EW9600

