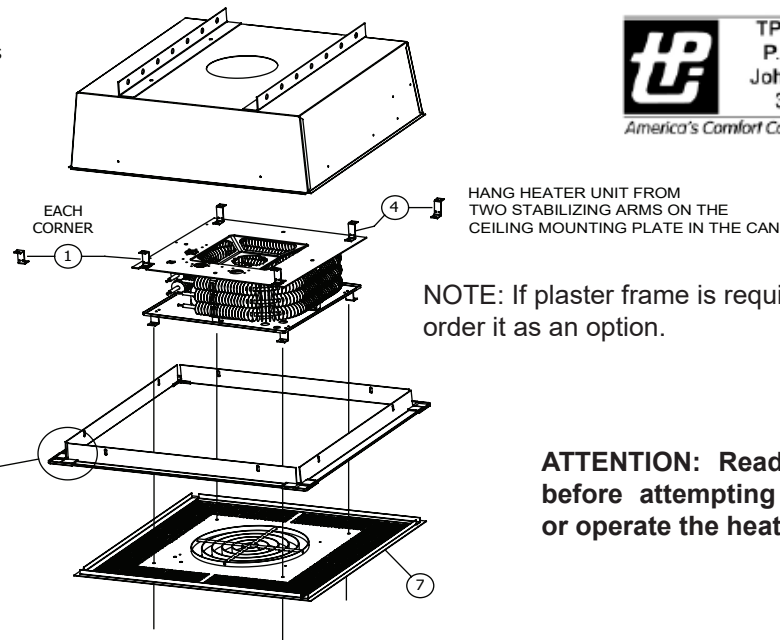
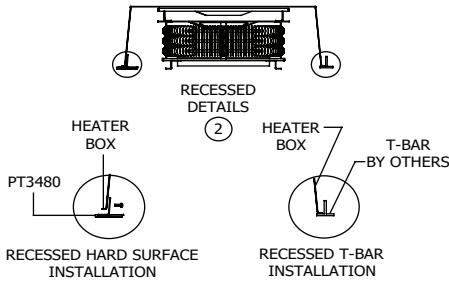


3480/RCH SERIES

INSTALLATION INSTRUCTIONS



TPI Corporation
P.O. Box 4973
Johnson City, TN
37602-4973

America's Comfort Conditioning Company

NOTE: If plaster frame is required for installation order it as an option.

ATTENTION: Read carefully before attempting to install or operate the heater.

GENERAL INFORMATION

MOUNT HORIZONTAL POSITION ONLY.

DO NOT INSTALL ANY CLOSER THAN 12" TO NEAREST WALL

MAXIMUM MOUNTING HEIGHT 12 FEET.

CHECK TO SEE THAT SERVICE VOLTAGE IS THE SAME AS HEATER VOLTAGE.

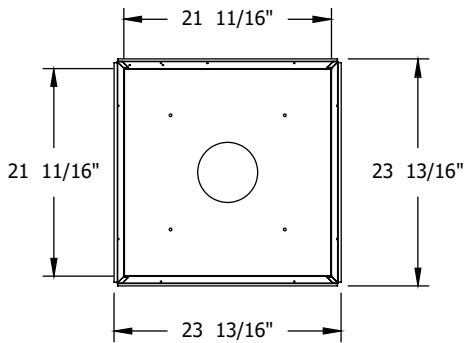
ALL WIRING MUST CONFORM TO THE NATIONAL ELECTRIC CODE AND EXISTING LOCAL CODE REQUIREMENTS.

WARNING: To avoid the risk of fire, shock or personal injury; make sure that the power source is disconnected before attempting to install, service, clean or disassemble the heater or any of its components. If the power disconnect is out of the line of sight, lock in in the open position and tag it to prevent the application of power.

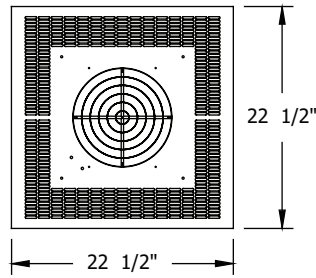
INSTALLATION INSTRUCTIONS:

1. Detach heater unit from the ceiling mounting plate in the recessed can by disengaging the stabilizing arms on ceiling plate from the heater unit. 4 - **#8 drive screws**.
2. For a dropped or suspended ceiling, anchor the recessed can using either threaded rod, or wire in an approved method that is sufficient to support the heater assembly such that the bottom edge of the recessed can just rest on the T-bar frame. For plaster or similar finished ceilings, the can should be installed so the flanges (of the can) are even with the interior finish or ceiling line.
3. For plaster or other similar finish ceilings attach the PT3480 accessory plaster frame to the recessed can using 8 - **#8 x 3/4 drive screws**. (detail "AA")
4. Hang heater unit from two stabilizing arms on the ceiling mounting plate in the can. Be sure to engage the two arms with the hooked ends on the ceiling plate with the slots in the heater plate.
5. Connect the heater leads with their corresponding supply leads in the outlet box (75°C wire must be used). The outlet box is permanently attached to the top of the can. After this is complete, install the ceiling plate access hole cover with 2 - **#8 drive screws** which have been provided.
6. Swing the heater unit up to the ceiling mounting plate and secure with 4 - **#8 drive screws** that have been provided. Do this by placing one screw in each of the four stabilizing arms on the ceiling plate.
7. Install heater exterior grille by attaching it directly to the heater unit. Rotate the exterior grille so that the two 1/4" dia. holes in the exterior grille align with the manual reset limit control located on the bottom of the venturi of the heater assembly, also make alignments so that the venturi of the heater assembly is on the outside the venturi of the exterior grille. Secure to the four bracket arms on the heater case with 4 - **10/32 x 3/4 button head machine screws** provided.

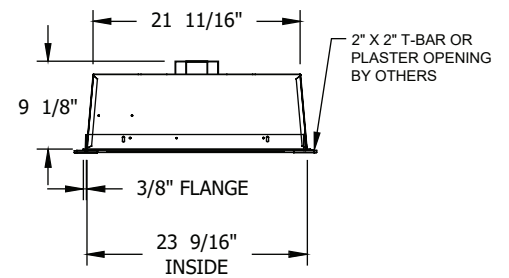
IMPORTANT: OWNER SHOULD RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE



TOP VIEW



BOTTOM VIEW



SIDE VIEW
(ALL SIDES IDENTICAL)

IMPORTANT INSTRUCTIONS

1. When using electrical appliances, basic precautions should always be followed to reduce the risk of fire, electrical shock, and injury to persons, including the following:
2. Read all instructions before using this heater.

CAUTION: High temperatures. Keep cords and all other combustible material, such as furniture, papers, clothes and curtains away from the heater. For safe and efficient operation, keep an open space around heater of three feet in front and 12 inches at ends and rear.

ATTENTION: Les températures élevées. Gardez les cordons et tout autre matériau combustible, tels que les meubles, papiers, vêtements et rideaux à l'extérieur de l'appareil de chauffage. Pour un fonctionnement sûr et efficace, garder un espace ouvert autour de chauffage de trois pieds à l'avant et 12 pouces aux extrémités et à l'arrière.

3. Extreme caution is necessary when any heater is used by or near children or invalids and whenever the heater is left operating and unattended.
4. Do not operate any heater after it malfunctions, has been dropped or damaged in any manner. Return heater to authorized service facility for examination, electrical or mechanical adjustment, or repair.
5. Do not use outdoors.
6. To disconnect heater, turn controls to off, and turn off power to heater circuit at main disconnect panel (or operate internal disconnect switch if provided).
7. Do not insert or allow foreign objects to enter any ventilation or exhaust opening as this may cause an electric chock or fire, or damage the heater.
8. To prevent a possible fire, do not block air intakes or exhaust in any manner.
9. A heater has hot and arcing or sparking parts inside. **WARNING:** Do not use it in area where gasoline, paint, or flammable liquids are used or stored.
10. Use this heater only as described in this manual. Any other use not recommended by the manufacturer may cause fire, electric shock, or injury to persons.
11. This heater may include an audible or visual alarm to warn that parts of the heater are getting excessively hot. If the alarm sounds (or illuminates), immediately turn the heater off and inspect for any objects on or adjacent to the heater that may have blocked the airflow or otherwise caused high temperatures to have occurred.
DO NOT OPERATE THE HEATER WITH THE ALARM SOUNDING (OR ILLUMINATING).

3480 / RCH SERIES CEILING HEATER

CAUTION: To avoid the risk of fire, shock or personal injury; do not insert or allow any foreign objects or hands to enter any ventilation or exhaust openings.

THERMAL CUTOUT IDENTIFICATION

All 480V Models employ a automatic limit control. 208, 240 and 277V models have a capillary manual reset limit control.

Models with capillary type manual reset limit control. This device is located on the heater venturi (bottom of unit as installed) with the capillary routed around the outside of the element assembly.

THERMAL CUTOUT OPERATION (WITH CAPILLARY MANUAL RESET)

To reset thermal cutout, first disconnect power from the unit allowing time to cool, locate the two 1/4" dia. openings in the front grille. Using a small screwdriver or pencil press the reset button (with minimal amount of force) through the 1/4" opening, then restore power to the unit. If fault continues disconnect power and check for causes.

THERMAL CUTOUT (480 volt models)

If for any reason temperatures increase beyond normal limits, safety thermal limit will open de-energizing heating element and fan motor. Check entire installation to determine cause of overheating and take corrective measures. The limit control is the automatic reset type and after cooling will reset, allowing heater to resume operation.

OPERATION

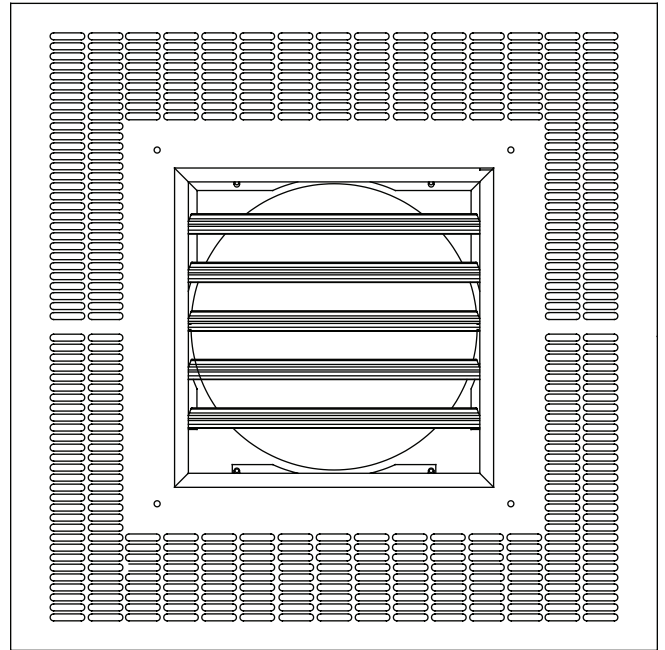
1. Turn on the power supply to heater.
2. Rotate thermostat knob fully clockwise.
3. Allow the room to reach desired temperature, then rotate thermostat knob counter clockwise until the heater de-energizes.

MAINTENANCE AND CLEANING

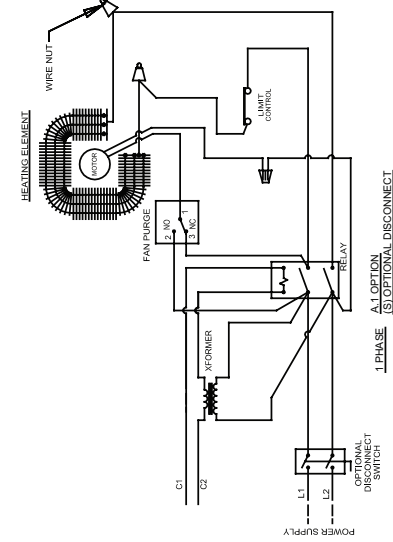
DISCONNECT POWER BEFORE ATTEMPTING ANY SERVICE

The heater should be cleaned at least annually to prevent excess build-up of dirt and lint accumulated under normal operating conditions. In an unusually dirty environment the cleaning should be done more often. Using a vacuum cleaner with soft brush attachment, clean the the intake and discharge openings of any accumulated dirt or lint. The fan blade and elements may be cleaned after removing the front cover. The face plate can be cleaned with damp cloth and mild detergent.

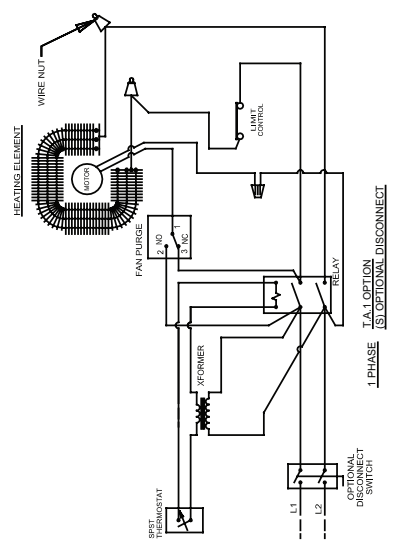
OPTIONAL LOUVERED DIFFUSER



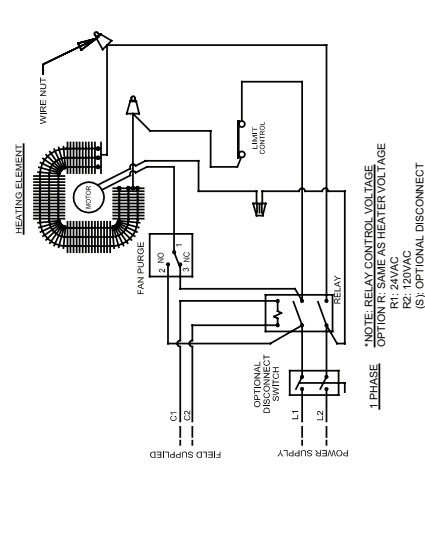
The factory installed louvered diffuser can be adjusted to direct air flow as desired. If necessary the louvered diffuser can be rotated 90 degrees by removing the four mounting screws and turning the louvered diffuser to the desired position and attaching to the grille. Care must be taken to align the notched corners of the diffuser frame with the reset holes in the grille. The louvered diffuser cannot be used in conjunction with the standard circular outlet.



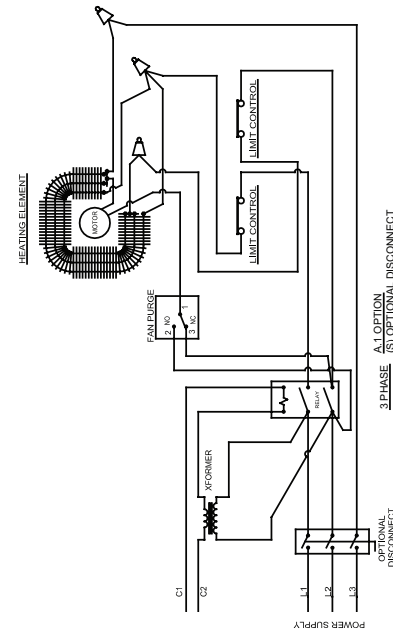
WD-1



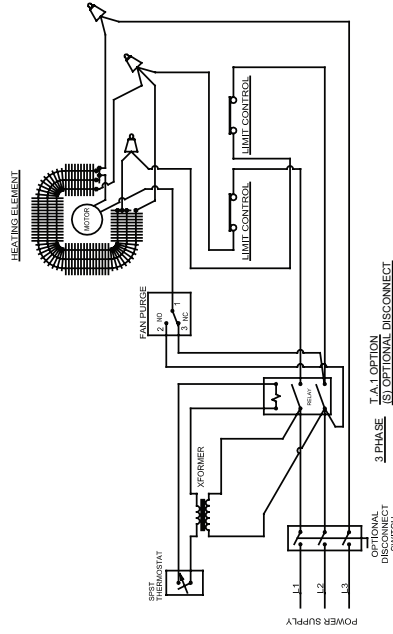
WD-2



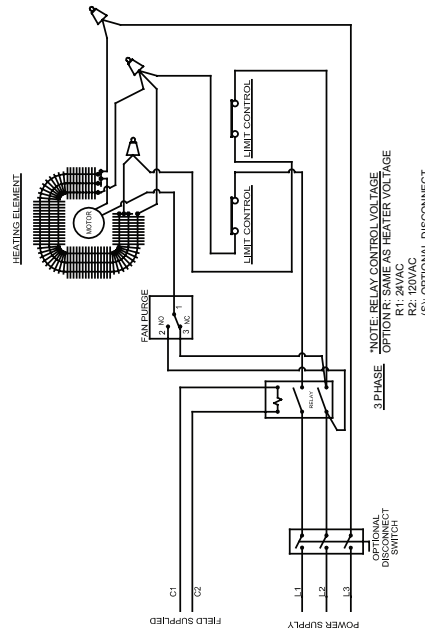
WD-3



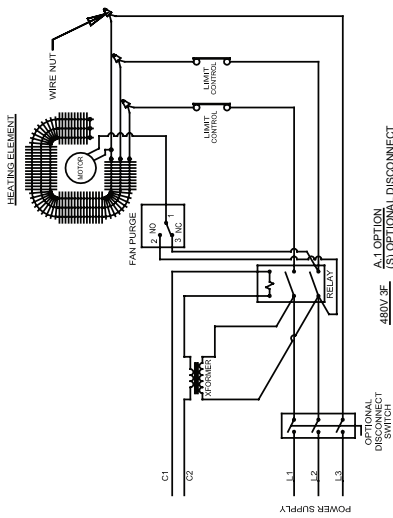
WD-4



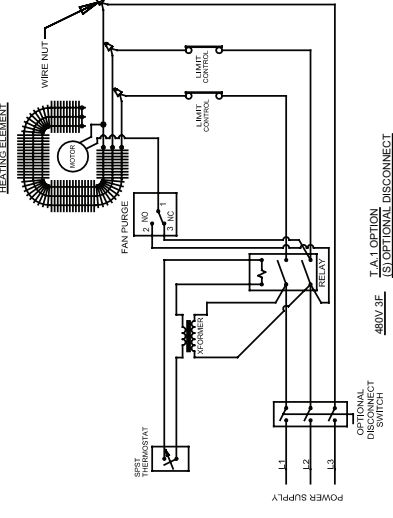
WD-5



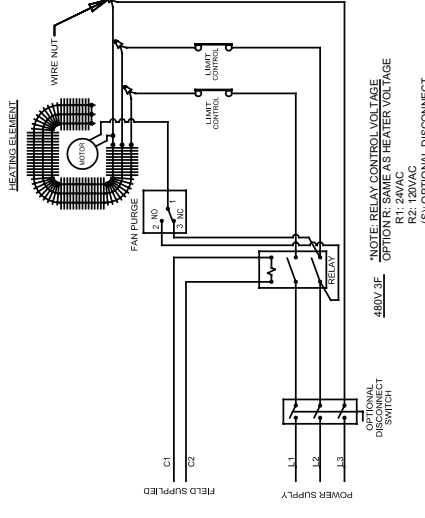
WD-6



WD-7



WD-8



WD-9

*NOTE: RELAY CONTROL VOLTAGE
OPTION R: SAME AS HEATER VOLTAGE
R1: 24VAC
R2: 120VAC
(S): OPTIONAL DISCONNECT