



INSTALLATION , OPERATION, MAINTENANCE INSTRUCTIONS LIST FOR TYPE XR EXPLOSION RESISTANT CONVECTION HEATER

1.0 PRE-INSTALLATION

- 1.1 Initially, inspect the heater for possible damage due to shipping and handling. Claims for shipping damages shall be placed with the carrier.
- 1.2 Check the heater nameplate to ensure that the heater area classification and temperature code are suitable for the hazardous area classification.
- 1.3 Check to ensure that the heater voltage is the same as the supply voltage.

2.0 INSTALLATION

The heater must be installed by qualified personnel in strict compliance with national and local electrical codes.

2.1 GENERAL

- 2.1.1 XR heaters are approved for wall mounting either horizontally or vertically with the terminal housing at the bottom. Ensure that the wall is sufficiently strong to support the heater which, depending on the model, could weigh up to 25 lbs.
- 2.1.2 Do not recess the XR heater into the wall. Use the bracket(s) supplied with the unit to ensure that the minimum spacing from the wall of 60 mm (2 3/8 in.) is maintained.
- 2.1.3 If more than one heater is being installed, maintain at least 76 mm (3 in.) between adjacent heater extrusions. NEVER INSTALL ONE HEATER ABOVE THE OTHER.
- 2.1.4 The XR heater relies on natural convection and "black heat" radiation to transfer heat to the surroundings. Try to maintain a 76 mm (3 in.) Clearance and NEVER LESS THAN 60 mm (2 3/8 in.) clearance in front of and at the sides of the heater.

2.2 MOUNTING BRACKET INSTALLATION

Install heater bracket with the supplied hardware as figures below.

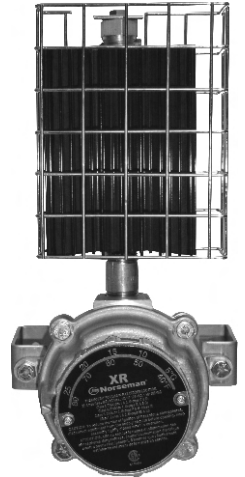


FIGURE 1
MODEL XR CONVECTION HEATER



FIGURE 2
MODEL XR CONVECTION HEATER

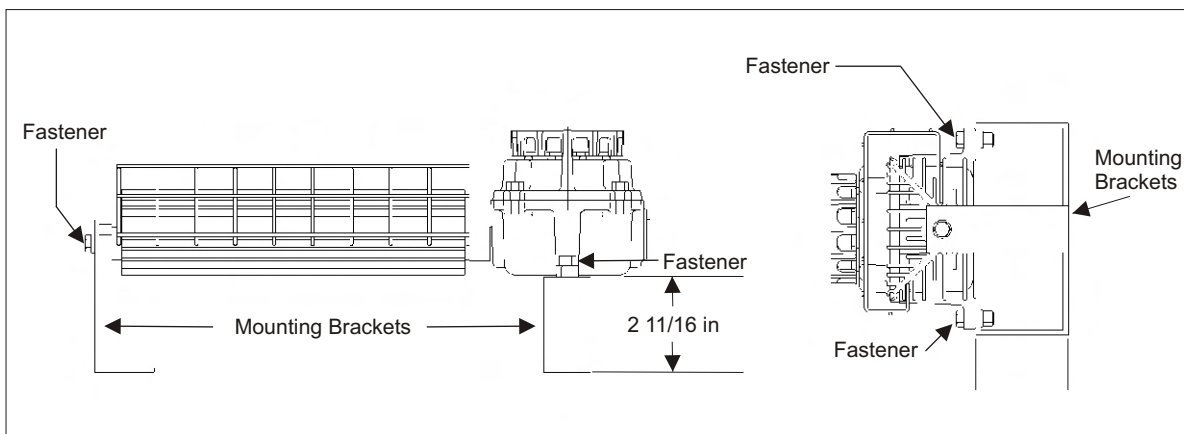


FIGURE 3
INSTALLATION OF MOUNTING BRACKET

2.0 INSTALLATION Cont'd

2.3 WALL MOUNTING

Step 1: Use heater with mounting bracket installed as template and mark mounting holes on the wall (Figure 4).

Step 2: Remove brackets from heater and install on wall (Figure 5).

Step 3: Secure heater to wall by tightening mounting bolts (Figure 6).

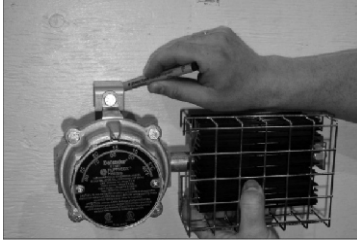


FIGURE 4



FIGURE 5

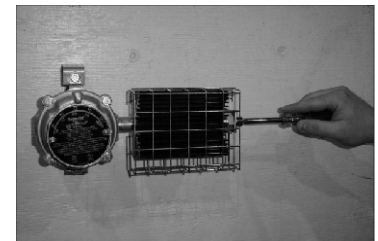


FIGURE 6

NOTE: Proper use of supplied mounting bracket(s) will ensure minimum distance of 60 mm (2³/₈ in) from wall.

2.4 WIRING

2.4.1 Whenever hazardous materials are present, ensure that the terminal housing covers are secure before powering the heater.

2.4.2 Use supply wires suitable for 105°C (221°F).

2.4.3 Use approved conduit and conduit seals as required by the national and local codes for hazardous locations.

2.4.4 To provide maximum protection, each XR heater should ideally be fused individually.

2.4.5 All heaters come factory prewired complete with adjustable thermostat ready for direct connection to power supply leads (see Figure 7).

(A) Connect the power leads to terminals marked L1 and L2.

(B) Connect the ground wire to the ground connection located in the heater terminal housing cover.

2.4.6 Replace terminal housing cover securely. Do not over-tighten.

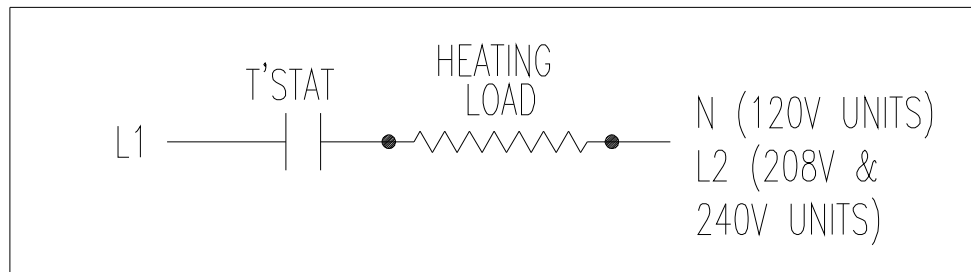


FIGURE 7
WIRING DIAGRAM - XR CONVECTION HEATER

3.0 START-UP

3.1 Install the terminal box cover.

3.2 Check to ensure that all plugs, screws, and covers are securely in place.

3.3 Check associated electrical equipment.

3.4 Check that all wall mounting bracket connections are tight.

3.5 Turn on supply power.

3.6 Dial the temperature required by twisting the thermostat knob.

4.0 MAINTENANCE

Check the following before every heating season:

WARNING: Disconnect power from the heater before performing any maintenance. Failure to do so can result in property damage, injury or death.

- (i) Remove enclosure cover and inspect the electrical connections. Ensure the connections are tight and wires are not burned or frayed.
- (ii) Inspect the heater and its surroundings. Make sure that heater clearances are maintained and no debris is around the heater.
- (iii) Check all mounting hardware and ensure fasteners are tight.
- (iv) Bolt on the cover, do not over tighten the bolts, and turn on the power supply.

5.0 Repairs

- 5.1 If the heater malfunctions, and is no longer operating, send the heater to the factory for servicing. Do not attempt to service the unit.

When returning the heater please include the following information with the heater:

- Company name and address
- Contact name
- Telephone/fax number/email
- P.O. Number
- Advise if an estimate is required prior to starting the repair
- Return shipping instructions.