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Installation Instructions
For Modular Heaters With and Without Plenum Assembly

-WARNING-
Danger of bodily injury or death!
Disconnect Electric Power Before Installation.
Where there is more than one circuit, be sure
All circuits are turned off!

Heater Installation:

- 1) First determine position of electric coil preheat or reheat position
- 2) Determine location of heating elements in relation to modular unit. There must be at least 24" from the center line of element section to the center line of the filter section.
- 3) Blower motors must have insulation class listing in excess of 175 degrees Fahrenheit.

After determining the above, you're ready to begin installation.

Installation of Modular Heater WITH Modular Plenum:

- 1) Remove electric heater section from plenum. This will make installation easier. Plenum section is shipped without gasket material on leaving-air and entering-air sides. You will find this material inside heater terminal enclosure.
- 2) Make sure all bare metal on flanges has gaskets to prevent air leaks. Plenum assembly should match up to existing equipment modules. It is the installing contractor's responsibility to supply any hardware necessary to connect sections (i.e. bolts, nuts, sheet metal screws or corner brackets).
- 3) Once modules are connected, the heater section may be reinstalled into plenum assembly by positioning element area on supplied tracks and sliding into plenum assembly; reattach with screws removed previously.
- 4) To do this, you must remove sheet metal screws from terminal enclosure that attach control box to plenum assembly. There will also be two screws that hold element assembly to slide tracks in module. These are used for shipping purposes only and do not have to be reinstalled.

Installation of Modular Heaters WITHOUT Plenum Assemblies:

This type of heater is to be used with factory access modules or heat modules only.

The make of your modular section will determine how the electric heater is to be installed.

On some modules, there will be an access door, which can be removed enabling the heater to be slid into the module. However, this can only be done if the terminal enclosure on the electric heater will be large enough to create an airtight seal where the access door opening is.

Other modules will have access panels only which can be removed to allow the electric heater to be slid into the module. Again, the terminal enclosure must be large enough to create an airtight seal and some modules must have a hole cut out of the module for the heating elements to slide into.

Whichever installation is chosen, a support foot (not supplied) must be installed on the element section, opposite the control panel to prevent stress.

Once you have determined which installation fits your module, make sure the heater terminal enclosure does not interfere with other module doors or panels. Apply factory supplied gasket material around opening where terminal enclosure will meet with module to prevent air leakage. Attach to section with #10 sheet metal screws provided. If your heater is for outdoor use (NEMA 4, 12, 13), you must use an approved outdoor sealer between the terminal enclosure and access module to prevent water seepage.

Airflow patterns are very important for the heater to work effectively. This is to ensure the life of the heating elements and to prevent nuisance tripping. A label on Heatrix heaters indicates the minimum airflow that can be used to operate its heaters correctly by showing the 'entering air' at two different temperatures. These minimum air velocities or C.F.M must be in a pattern that covers the entire surface of the heater.

Field wire the supply and control circuit in accordance with national and local electrical codes for outdoor/indoor power supplies. Each heater carries a wiring diagram designed for that particular heater, showing the manner in which each duct heater must be connected externally to be properly interlocked with the blower motor. If the blower motor interlock is not included in the duct heater, then the duct heater is provided with an integral air pressure switch. **Installer must tighten all electric connections in the control panel.**