

## HEATED PRODUCTS SUPPLEMENT

### NOTE

**Before proceeding, refer to the unit's specific IOM Manual for safety, installation, and startup information. Verify proper voltage to the product per local and National Electric Code (NEC). Ensure proper rotation for units with three phase motors.**

### Electric Heated Products

Electric heated products are certified only for indoor use. Electric heated products come standard with a thermostat (shipped loose, unless ordered as factory pre-mounted) which is to be field installed at eye level within 3 feet of the unit.

**Note:**

1. Electric heated Low Profile 2, Standard 2, High Velocity 2, Extra Power 2, and Phantom series units come standard with internally mounted controls with 24V control circuit (FIG. 1).
2. Wiring connection for the electric heated Low Profile 2 units is at the top of the housing which can be accessed by removing the top cover plate, while internal terminal blocks are provided for electric heated Standard 2, High Velocity 2, Extra Power 2, and Phantom series units.
3. Electric heated Wind Stopping and WindGuard units include an electric heater control panel mounted on the right-hand side, as standard. Optional motor/unit control panel available, which includes a remote 24-volt thermostat with On/Off switch with terminals provided.

The thermostat should be mounted close to the product to best sense the air temperature in the vicinity of the door opening. Connect proper voltage to the product per local and National Electric Code (NEC).

Thermal overload protection is built into all heater coil assemblies. In the event of an overload condition, the overload will trip and disconnect electrical power from the heater coil. Upon diagnosing and fixing the problem, power can be reconnected to the heater coil by manually resetting the thermal overload by way of the button(s) or lever(s) located in the unit or panel.

To operate multiple units in conjunction using a single door switch and single thermostat, a primary/secondary configuration is required (FIG. 2).

For high ampacity units, additional holes can be drilled to bring in additional electrical wires. Use appropriate bushings for new holes to protect wire casing. High temperature silicon wires are recommended for main supply power.

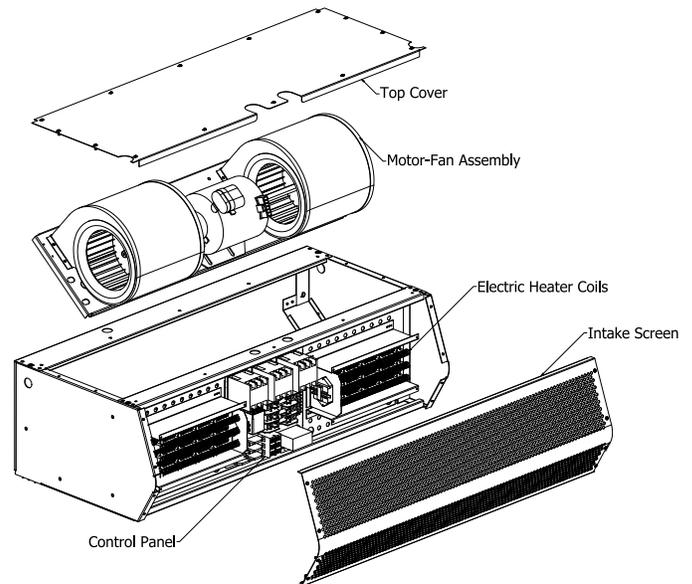


FIG. 1 (Electric Heated STD2 unit)

An unobstructed clearance space of 18-24" is required at the top of all heated air curtains to allow for service and optimal performance.

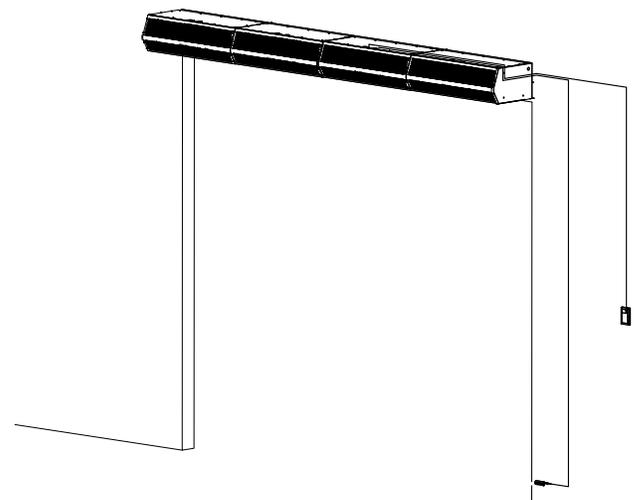


FIG. 2 (Tandem Mounted Primary/Secondary Units)

## Hot Water and Steam Heated Products

Hot water and steam heated products are certified only for indoor use. Low Profile 2, Standard 2, High Velocity 2, Extra Power 2, and Phantom series units are shipped with coils mounted in the interior of the unit. Wind Stopping and WindGuard units are shipped with coils factory mounted to the exterior of the unit.

Once the coil has been secured to the cabinet, access to the motor and fan is through the removable access panels located on the top of the cabinet for Standard 2, High Velocity 2, Extra Power 2, Phantom series, and WindGuard units.

**Note:** Low Profile 2 and Wind Stopping units require the removal of the coil to access the motor(s) and/or fans.

All piping should be done by a licensed pipe fitter and in accordance with local codes and regulations. Connect the supply and return fittings as required. All traps and valves are to be sized and field installed by others. For Standard 2, High Velocity 2, and Extra Power 2 units, front intake screen must be removed to access vent plugs. Standard coil configuration is right hand supply and left-hand return (FIGS. 3 & 4) except for Low Profile 2 series, which has supply and return connection on the same end. Optional temperature controls, if ordered, are to be field installed by others.

The maximum operating temperature and pressure for hot water coils is 250 degrees F and 200 psi.

The maximum operating temperature and pressure for steam coils is 289 degrees F and 50 psi.

For hot water and steam heated products, the recommended service clearances are 12" to the left and right sides, 24" on top, and 24" in front of the unit.

The maximum altitude for intended use is 2200m.

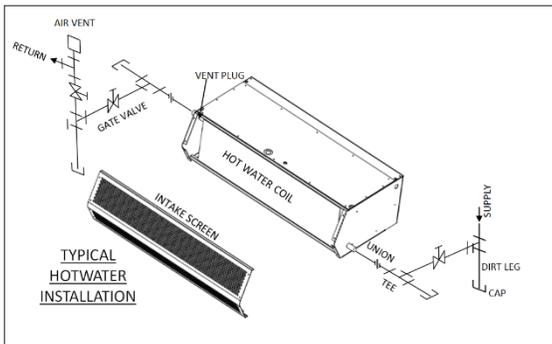


FIG. 3 (Hot Water Heated STD2 Unit)

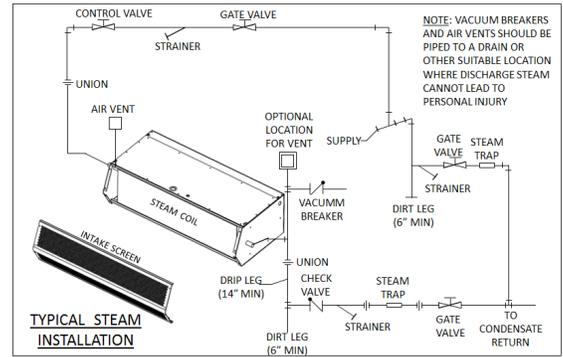


FIG. 4 (Steam Heated STD2 Unit)

## Gas Heated Products

Gas heated products are certified only for indoor use. The product consists of three major components: the air curtain, the transition section(s), and the indirect gas fired duct furnaces(s) (FIG. 5).

The transition section(s) are shipped knocked down and are to be field assembled and installed per their supplemental instructions (FIG. 6). Exceptions are the Wind Stopping (WMI, WMH) and WindGuard (BD) series, which are shipped with fully assembled transitions.

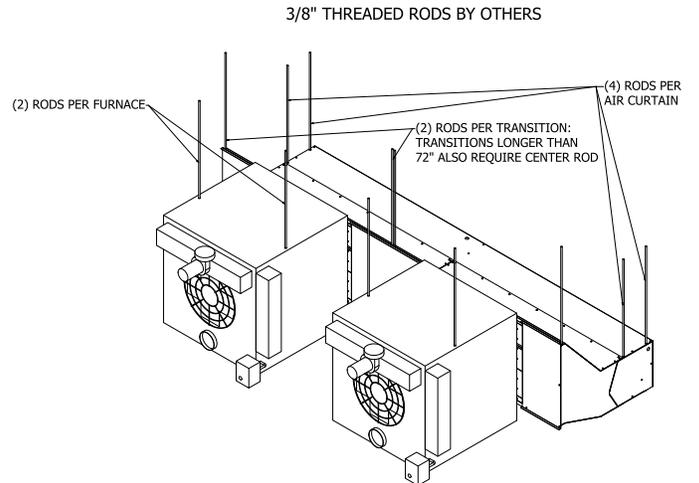


FIG. 5 (Indirect Gas Fired Heated HV2 Unit)

### Note:

1. Assemble the transition section(s).
2. Measure the width of the transition section(s) to determine the best installation location for the duct furnace(s).
3. The duct furnace(s) are typically suspended from above with threaded rods. The duct furnace(s) must be centered and equally spaced with a 2" clearance between the furnace(s) and the transition section(s).
4. Install the adjustable blank off plates to close the gaps in the transition section(s) and secure the flanges to the transition section(s).

All gas piping and duct furnace exhaust venting should be done by a licensed pipe fitter and in accordance with local codes and regulations. Power vented exhaust duct runs should not exceed 100' for horizontal venting. See [furnace installation manual](#) for additional piping and other details.

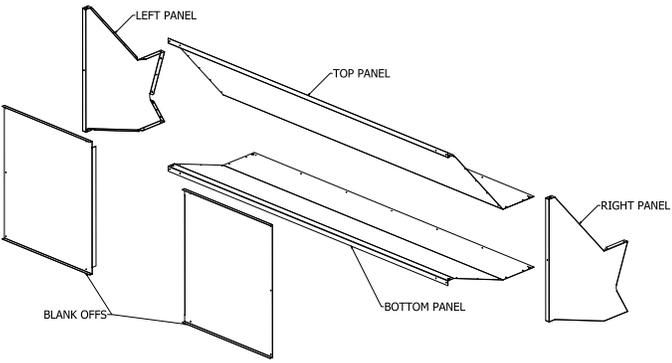


FIG. 6 (Transition Kit Exploded View)

In the United States, installation must conform to local codes or, in the absence of local codes, with the latest edition of the National Fuel Gas Code (ANSI Z223.1/NFPA 54). Further reference should be made to the recommendation of your fuel supplier. In Canada, installation must conform with local codes or, in the absence of local codes, with the latest edition of the Installation Code for Gas Burning Appliances and Equipment (CAN/CGA B149.1). Further reference should be made to the recommendation of your fuel supplier.