BUCAN
ELECTRIC HEATING DEVICES INC.
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DH-INS09

Duct Heater - Forced Air, for Industrial Process Application Only

All Bucan **duct heaters** incorporate a conservative design approach, use premium quality raw materials and are made by a highly skilled staff. You can expect top performance and by following these instructions you will benefit from many years of trouble free service.

Installation:

1. Only qualified personnel are to install **industrial electric heating equipment** and must meet all national and local codes.
2. Ensure the power connections match the **voltage, phase and wattage** data on the nameplate.
3. Heater can be mounted in any position
4. It is designed for positive air flow; the fan is to be upstream of the heater.
5. Duct design must have minimum spacing around the element bundle to ensure all the air flow passes through the element.
6. You must allow adequate space for linear thermal expansion of the heating elements.
7. Installations in wet or outdoor locations, or subject to drips and spillage, require a Class 4 (CSA designation), NEMA 4 (UL designation) terminal box. The heater nameplate will have the suffix "R".
8. A high limit thermocouple is highly recommended.

Operation:

1. Before heater energization ensure a positive air flow across the heater face to the design specifications.
2. A General Purpose (NEMA 1) terminal box is standard. Special terminal boxes are required for environments containing:
    a. Water or water vapours
    b. Oil, oil vapours or grease
    c. Corrosive vapours or gases
    d. Reactive or noxious gases
        i. use the Class 4, NEMA 4 enclosure in these environments

Maintenance:

1. Inspect and tighten the electrical connections as required
2. Look for contamination inside terminal enclosure and seal properly to prevent potential leakage.

Recommendations:

1. A high limit thermocouple is highly recommended
2. Alternate protection is an air flow switch
3. Interlock the heater contactor coil with the fan motor starter in order to ensure that the fan is turned on when the heater is energized