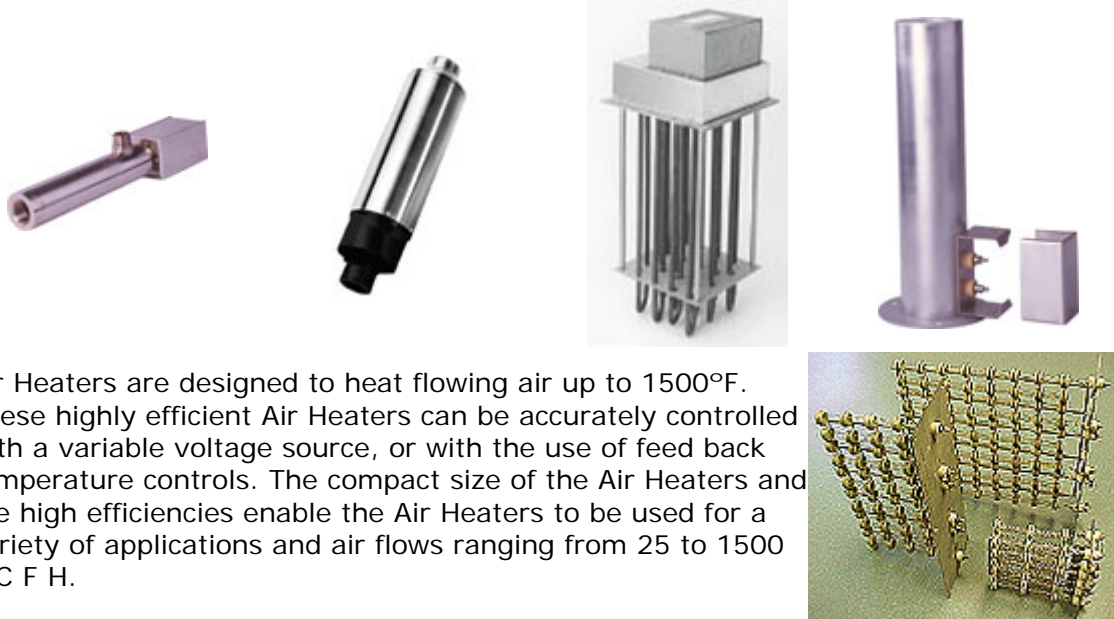


AIR HEATERS



Air Heaters are designed to heat flowing air up to 1500°F. These highly efficient Air Heaters can be accurately controlled with a variable voltage source, or with the use of feed back temperature controls. The compact size of the Air Heaters and the high efficiencies enable the Air Heaters to be used for a variety of applications and air flows ranging from 25 to 1500 S C F H.

Air Heaters are compact in size and are available from .410 D X 41 /2" long in size.

Air Heaters Features:

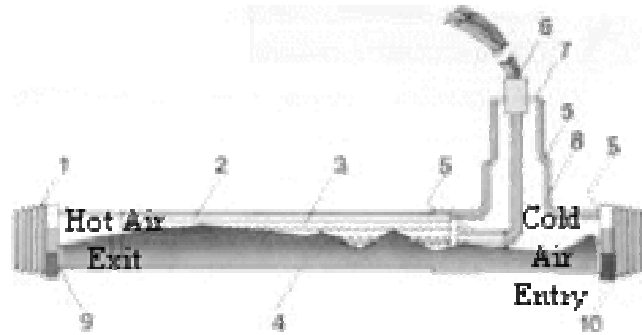
- High temperature
- Compact small size · Long life
- Directable heat · Fast response
- Controllable by varying voltage, flow rate, or temperature control
- Rapid heat up and cool down ferrous alloy element
- Replaceable element option
- Medium to high air flow

Air Heaters Specifications Design Capabilities

Housing. Sturdy Stainless Steel Housing / NfS Option
Fittings. Various Fittings Male / Female NPT available
Maximum Temperature. Outlet temp of 1500 Degrees F at 150 S C F M
Voltages. Nominal 120 / 240, Special Voltages from 24 V Single or Three phase Voltages available

HCS Heaters Controls & Sensors Ltd HCS
60- Meg Dr Unit 13
London Ont N6E 3T6
Ph (519) 686 2715 Fax (519) 686 8159

Air Heaters Miniature



Tolerances

Wattage tolerances are held to +5, -10% or better at the voltage specified.

Air Process Heaters: Tee Type - 3/8" to 1 1/4" diameter

Air Heater Selection

- Determine the volume of air or gas (SCFM) you will be heating.
- Determine temperature rise in degrees Fahrenheit (DeltaT in F)
- Calculate wattage required as follows:

$$\text{Watts} = \frac{\text{SCFM} \times \text{DeltaT in F}}{3}$$

- Take into consideration the physical size requirements of your application and determine from the specifications chart for each size, the air heater best suited for your application. High watt densities shown in the specifications charts are subject to factory approval due to resistance wire limitations.
- For temperature control Thermocouple available PC type

Features

- Exit air temperatures to 1000°F (540°C). Designed for horizontal use.
- Standard pressure rating is 80 psig at room temperature.
- May be used with recirculating air up to 250°F. For use with clean, dry air.

Construction

- | | |
|-------------------------------------|--|
| 1 Optional stainless steel bushing. | 2 Ceramic coil support. |
| 3 Resistance element. | 4 Stainless steel sheath. 5 Silver solder. |
| 6 Fiberglass insulated leads. | 7 Epoxy seal. 8 Copper tee. |
| 9 Heliarc weld. | 10 Optional brass bushing. |