Radiant Process Heaters

Style RPW Panel Heater

Style RPW Very High Temperature Ceramic Glass Face Infrared Panel Heaters

Design Features

- Panel heater can be mounted in any direction
- High temperature white translucent glass emitter surface
- Precision wound resistance wire
- Milled ceramic fiberboard to hold resistance wire, cemented in place
- Heavy gauge aluminized steel enclosure box standard
- Optional: quartz thermowell tube
- Standard: side mount with clamp
- Optional-3 back mounted styles
- Refractory blanket insulation
- Stainless Steel power screw terminals
- Mounting screw studs
- Standard: 1/4-20 × 1”L
- Electrical junction box, standard

Construction Characteristics

Tempco Style RPW Radiant Panel Heaters use a very high temperature ceramic glass for the emitter surface. The RPW Radiant Panel Heater is the perfect heater when a cleanable surface is required at a higher watt density. Behind the very high temperature glass, a 1” thick ceramic fiber refractory board is milled out in a uniform pattern to accept the helically wound iron/chromium/aluminum alloy resistance element. The resistance coils are set into the precision machined grooved board and cemented into place. A ceramic cloth is placed between the very high temperature glass and the resistance coils.

Tempco Style RPW Radiant Heaters can transmit up to 78.5% of the power input as infrared energy.

SPECIFICATIONS

Maximum Size: In addition to the standard sizes listed below; custom sizes up to 24”W × 24”L can be manufactured.
 Thickness: Standard — 3”, Optional — 1.5” to 5”
 Maximum Watt Density: 40 Watts/in²
 Maximum Voltage: Voltage can be single, dual or 3-phase up to 600 VAC (depending on heater size and wattage)
 Maximum Face Temperature: 800°C (1472°F)
 Wavelength Range: Between 2.5 and 6.0 microns (µm)
 Distributed Wattage and Zoning: Yes, dependent on size

Typical Applications

- Moisture Removal
- Paint Drying
- Glass Processing
- Curing of plastic coatings, paint, ink, etc.
- Thermofoming
- Heat Setting
- Film Shrinking
- Blister Packaging
- Food Processing
- Toasting
- Textile Drying

Standard (Non-Stock) Sizes and Ratings of Style RPW Very High Temperature Glass Infrared Heaters

To complete the part numbers below, include the designated number that applies to the following options:
0 = Plain, no thermowell or T/C  1 = Thermowell only  2 = Thermowell and type K T/C  3 = Thermowell and type J T/C
Available Thermowell/Thermocouple types and descriptions can be found on page 7-95.

For the part numbers below, if a thermowell is specified, the standard Side Mount Thermowell with Clamp is supplied.

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<th>Volts</th>
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