

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: 304 Stainless Steel
- * 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.

Typical Applications

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

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

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.

Width		Length		40W/in ²			Part Number
in	mm	in	mm	Watts	Volts	Ph.	
4	102	10	254	1600	240	1	RPW0101__
6	152	10	254	2400	240/480	1	RPW0102__
6	152	12	305	2880	240/480	1	RPW0103__
8	203	10	254	3200	240/480	1	RPW0104__
10	254	10	254	4000	240/480	1	RPW0105__
12	305	10	254	4800	240/480	1	RPW0106__
12	305	12	305	5760	240/480	1	RPW0107__