

## 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 x 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 x 24"L can be manufactured.

**Thickness:** Standard — 3", Optional — 1.5" to 5"

**Maximum Watt Density:** 40 Watts/in<sup>2</sup>

**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 <sup>2</sup>			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__