



Style RPG High Temperature Glass Face Infrared Panel Heaters



Design Features

- * Panel heater can be mounted in any direction
- * High temperature transparent red/black glass emitter face
- * 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

The Tempco Style RPG Radiant Panel Heater has a red/black high temperature ceramic glass for the exterior radiant surface. The RPG Radiant Panel Heater is the ideal heater when a cleanable surface is required, such as for the bottom heaters of a thermoforming oven.

Behind the glass, a 1" thick ceramic fiberboard is milled out to support the helically wound iron/chromium/aluminum alloy based resistance element. The resistance coils are placed into the precision machined grooves in the fiberboard and cemented into place. Ceramic cloth is placed between the glass and the resistance coil.

Tempco Style RPG Radiant Heaters can transmit up to 78.5% of the input energy and can be positioned as close as 2 to 4" from the material being heated.

Typical Applications

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

SPECIFICATIONS

Maximum Size: In addition to the standard sizes listed below; custom sizes up to 34"W x 36"L can be manufactured.

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

Maximum Watt Density: 20 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: 750°C (1382°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 RPG 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		10W/in ²				15W/in ²			
in	mm	in	mm	Watts	Volts	Ph.	Part Number	Watts	Volts	Ph.	Part Number
6	152	12	305	720	120	1	RPG0101__	1080	120/240	1	RPG0201__
6	152	18	457	1080	120/240	1	RPG0102__	1620	240	1	RPG0202__
6	152	24	610	1440	120/240	1	RPG0103__	2160	240/480	1	RPG0203__
12	305	12	305	1440	120/240	1	RPG0104__	2160	240/480	1	RPG0204__
12	305	18	457	2160	240/480	1	RPG0105__	3240	240/480	1	RPG0205__
12	305	24	610	2880	240/480	1	RPG0106__	4320	240/480	1	RPG0206__
16	406	24	610	3840	240/480	1	RPG0107__	5760	240/480	1	RPG0207__
24	610	24	610	5760	240	1	RPG0108__	8640	480	1	RPG0208__