

### Infrared Medium Wave Panel Heater Construction Styles

**Style RPB**  
**Black Quartz**  
**Composite Face**



**High Emissivity Coating**  
(See page 7-90)

**Style RPG**  
**Black Glass Face**



**Cleanable Glass Surface**  
(See page 7-91)

**Style RPW**  
**High Temperature**  
**Ceramic Glass Face**



**Highest Watt Density**  
(See page 7-92)

**Style RPM**  
**Metal Face**



**Cleanable Metal Surface**  
(See page 7-93)

#### Construction Characteristics

The placement of the resistance coils is carefully designed to provide uniform heat distribution.

The refractory material is backed by layers of insulation to minimize back heat loss. The standard housing is made of heavy gauge aluminized steel. Optional housing materials include 304 Stainless Steel.

The backside of the housing has a terminal box for electrical wiring with ceramic terminal bushings and stainless steel screw terminals.

Options available include: Standard quartz tube thermowell and clamp on the short side, standard Type K or J 1/8" diameter thermocouple probes and various back mounted thermowell/thermocouple combinations described on page 7-95.



#### **DANGER: Fire Hazard**

Infrared Panel Heaters are not to be used in applications where flammable vapors, gases or combustible materials are present as defined in the National Electrical Code. Do not mount the heater closer than 6 inches to any structural or surrounding material that does not have a minimum temperature rating of continuous operation at 395°F (200°C). Proper ventilation is required to expel vapors or fumes away from the process and personnel.

#### Design Features

- \* Available in convenient standard building block sizes
- \* Standard mounting screw studs (1/4-20 x 1"L) on the back side
- \* Available in four emitter face styles
- \* Can be ordered with standard side mounted thermowell, clamp bracket and/or Type J or K thermocouple
- \* 3 different back mounted thermowell/thermocouples are available
- \* Does not require external reflectors, which require maintenance
- \* Voltages available include 120, 240, 480 VAC, 1 or 3 phase, dual voltage and custom
- \* Maximum watt densities from 25 to 40 watts /in<sup>2</sup>
- \* Multiple zones and distributed wattage in the same panel heater
- \* Uniform infrared heating coverage
- \* Stainless Steel power screw terminals



#### **Note:**

Not hermetically sealed.

### Ordering Information

#### Catalog Heaters

To order a **Radiant Panel** from the tables on the following pages, fill in the last digit of the part number indicating built-in thermowell and thermocouple as follows:

- 0** = Plain, no thermowell or T/C
- 1** = Thermowell only
- 2** = Thermowell and type K T/C
- 3** = Thermowell and type J T/C

If a thermowell is selected, specify the type from page 7-95

#### Custom Engineered/Manufactured Heaters

Understanding that an electric heater can be very application specific, for sizes and ratings not listed, Tempco can manufacture a Radiant Panel Heater to meet your requirements. **Standard lead time is 4 weeks.**

**Please Specify** the following:

- Construction Style (RPB, RPG, RPW or RPM)
- Length and Width
- Watts, Volts and Phase
- Thermowell Type only
- Thermowell and Type K or J Thermocouple

**⚠ WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).