

# QR

## Quartz Lamp Radiant Heater



- 3.9 kW/Ft<sup>2</sup>
- 0.5 - 3.8 kW
- 120, 208, 240, 480 and 600 Volt
- Quartz Elements
- 4000°F Max. Source Temp.

### Applications

**Textiles and Non-Woven Fabrics** — Drying, resin finishing, heat setting and shrinking, booster preheating, controlling dye migration, fiber bonding and silk screen drying.

**Plastics** — Thermoforming, laminating, embossing, postforming, film shrinking around palletized loads. Fusing coatings (plastisols, organosols), preheating and postheating materials for fluidized bed coatings, ink and paint drying.

**Paper and Paperboard** — Curing latex and resin for high wet and dry strength selective drying of corrugated board liner, booster preheating, setting protein derivatives and clay coatings, laminating, fiber bonding, drying adhesives and ink drying.

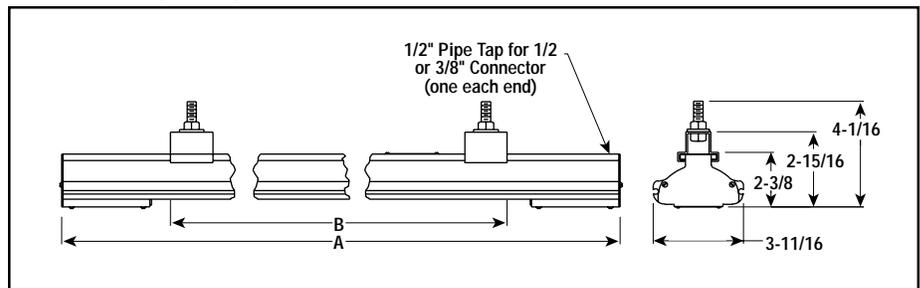
**Metals** — Baking or curing finishes, water dry-off, weld preheating, shrink fitting and stress relieving.

### Features

**Higher Operating Temperatures** than metal sheath elements permit faster work speeds in some applications.

**Very Fast Heat-Up/Cool-Down** makes quartz lamp heaters suitable for applications requiring immediate operating temperature and/or quickly reduced heat in event of work stoppage.

### Dimensions (Inches)



Quartz Elements are **Highly Resistant to Thermal Shock** but are subject to mechanical breakage. This can be minimized by careful handling and the use of protective grilles which are furnished separately.

**Easy Horizontal Mounting only.** Mounting clamps and bolts are furnished for back attachment to straight or specially formed steel straps, etc. Housing may be in any position in horizontal plane.

**Process Temperature Control** — Quartz lamp radiant heaters may be controlled by Chromalox SCR Power Controllers with Phase Angle firing mode control. See the Controls section of this catalog

### Construction

Quartz Elements are Mounted in **Sturdy Extruded Aluminum Housing** containing a

highly polished aluminum parabolic reflector.

**Highly Polished Aluminum Reflectors** give good reflectivity and heat transfer, and are easily cleaned to maintain energy efficiency.

**Note** — Because terminal temperature cannot exceed 650°F, forced cooling is sometimes necessary. Intense brightness of the quartz element may also cause visual discomfort if mounted in the line of sight.

### Accessories

**Protective Grille** — Optional snap-in sections help protect personnel and work from contact with hot elements.

**Companion Reflector** — Optional radiant companion reflectors improve oven efficiency. See Radiant Accessories in this section.

### Specifications and Ordering Information

kW	Volts	Length (In.)		QR with 3/8" Quartz Lamp			Optional Grille <sup>1</sup>	Replacement Elements <sup>1</sup>
		Overall A	Heated B	Model	Stock	PCN		
0.5	120	13-1/16	5	QR5B130	S	113849	N/A	500T3
0.5	120	13-1/16	5	QR5B131 <sup>2</sup>	NS	113857	N/A	500T3
1	208	18-1/16	10	QR10B830	NS	118527	(1) GR-800	1000T3
1	240	18-1/16	10	QR10B230	S	113865	(1) GR-800	1000T3
1	208	18-1/16	10	QR10B831 <sup>3</sup>	NS	118535	(1) GR-800	1000T3
1	240	18-1/16	10	QR10B231 <sup>3</sup>	NS	118543	(1) GR-800	1000T3
1.6	208	24-1/16	16	QR16B830	NS	118551	(1) GR-2	1600T3
1.6	240	24-1/16	16	QR16B230	S	113902	(1) GR-2	1600T3
1.6	208	24-1/16	16	QR16B831 <sup>3</sup>	NS	118560	(1) GR-2	1600T3
1.6	240	24-1/16	16	QR16B231 <sup>3</sup>	NS	118578	(1) GR-2	1600T3
2.5	480	33-1/16	25	QR25B430	S	113945	(1) GR-3	2500T3
2.5	575	33-1/16	25	QR25B630	NS	118586	(1) GR-3	2500T3
3.8	575	45-15/16	38	QR38B630 <sup>4</sup>	AS	118594	(1) GR-4	3800T3

**Stock Status:** S = stock AS = assembly stock NS = non-stock  
**To Order**— Specify model, PCN, kW, volts, quantity, optional grille and replacement elements (if needed).

1. See Accessories in this section for ordering information.
2. Includes 6" BX and grounding plug.
3. Includes 6" BX and polarized plug.
4. Produces 3000 Watts on 480V.