



INNOVATIVE COMBUSTION SOLUTIONS WORLDWIDE

# ULTRA-RAD INFRARED BURNERS

**The Ultra-Rad is a high output, high efficiency short to medium wavelength IR burner. It provides uniform, high intensity radiant heat that can be useful in numerous heating applications.**

The durable Ultra-Rad heads are of a rugged cast iron design to withstand the thermal and physical abuses encountered in most industrial processes.

Even the burner surface is a metal fiber mat for long life at high temperatures. The metal fiber mats' low mass allows for quick heat up and cool down and improved responsiveness. The metal fiber mat also provides an alternate grounding path for the flame rod, which increases the practical available turn-down.

An Inconel screen is used to increase radiation efficiency.

The Ultra-Rad burners are mounted to a manifold with a standard union fitting for a secure fit and ease of burner installation. Ultra-Rads can be oriented to fire up, down or sideways. Manifold systems can be designed for a wide variety of zone and burner control arrangements.

*Finishing Systems*

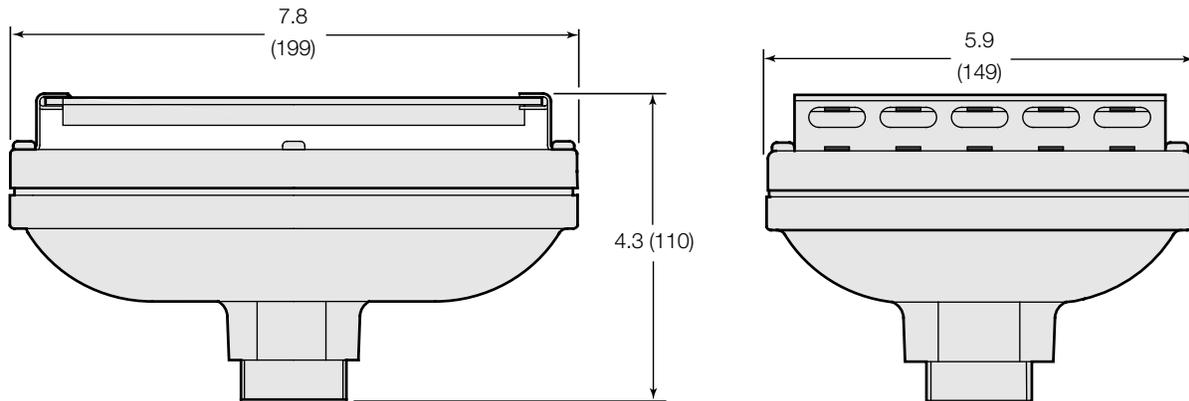
*Food Processing*

*Pre-Heating*

*General Drying &  
Moisture Removal*



## Dimensions



Ultra-Rad basic envelope in inches (mm)

## Specifications

Parameter	Specification
Maximum Input	35,000 Btu/hr. (10.2 Kw) @ 8" w.c. (20 mbar) manifold pressure. (Open-air ambient firing)
Minimum Input	10,000 Btu/hr. (2.93 Kw)
Face Temperature	1450° to 1900° F (788 to 1038 C) @ 10,000 to 35,000 Btu/hr. (2.93 to 10.2 Kw)
Radiant Efficiency	47% @ 35,000 Btu/hr. (10.2 Kw)
Fuels	Natural Gas, Propane
Emissions @ 3% O <sub>2</sub>	CO: < 20ppm NOX: < 20ppm
Weight	14 lbs. (6.4 kg)

**ECLIPSE™**  
Innovative Thermal Solutions

**Eclipse Combustion**

ISO 9001 Registered



***Eclipse Combustion***

**Offered By:**

Power Equipment Company  
2011 Williamsburg Road  
Richmond, VA 23231  
Phone: 804-236-3800 Fax: 804-236-3882

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[www.peconet.com](http://www.peconet.com)