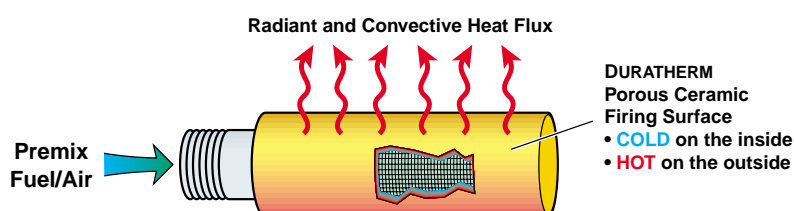


### Gas-fired Radiant Burners for High Performance Heaters and Boilers

Alzeta's **DURATHERM** burner is a forced-draft, pre-mixed, gas-fired radiant burner designed for use in residential, commercial and industrial heating equipment requiring efficient, high intensity, transfer of heat with state-of-the-art emissions performance.

#### A unique new burner designed to meet the needs of performance, durability and reliability

The **DURATHERM** burner is available in cylindrical configurations in just about any cross-sectional shape to match the heat delivery needs of most heating devices. With small capacity burners, the burner element is usually supplied in a single piece design. For larger capacities (above 1,500,000 Btu/hr), the burner element is usually assembled from multiple cylindrical segments to facilitate handling and installation.



#### Benefits:

- ✓ Optimum heating system efficiencies
- ✓ Long-lasting performance
- ✓ Simple installation
- ✓ Broad operating range
- ✓ Reliable ignition
- ✓ Ultra-low NO<sub>x</sub> emissions
- ✓ Easy to operate and maintain
- ✓ High turndown ratio
- ✓ Silent operation

# DURATHERM™ Radiant Gas Burner



*DURATHERM™ Burner: Typical Single Piece and Segmented Cylindrical Configurations.*

## Specifications:

### Burner Capacities

Max.	16,500,000 Btu/hr, HHV - 30" diameter x 180" (cylinder)
	4,400 kW, LHV - 762 mm diameter x 4,572 mm
Min.	23,000 Btu/hr, HHV - 2" diameter x 4.5" (cylinder)
	6 kW, LHV - 51 mm diameter x 114 mm

### Excess Air Requirements

Min.	10%
Max.	60%

### Ignition Systems

Pre-mix Pilot
Hot Surface Ignitor
Direct Spark Ignitor

### Air Filtration

> 99% @ 1µm

### Fuels

Natural Gas, Propane

### Flame Supervision

Flame Rectification
UV Scanner

*Request individual product specification sheets for performance and dimension details.*

## Features:

- High-intensity, uniform radiant heat transfer.
- Patented, long-lasting, ceramic firing surface.
- Robust construction.
- Resistant to thermal shock and mechanical impact.
- Flexible designs.
- Pre-mix operation.
- Low pressure drop.
- Rapid heat up and cool down.

## Applications:

- Residential/Commercial Boilers and Water Heaters.
- Air Heaters and Furnaces.
- Commercial cooking equipment.

## High efficiency radiant performance

The **DURATHERM** burner is designed for high performance applications with radiant output unmatched by other burner systems. The rugged firing surface accommodates the extreme temperatures and frequent thermal cycling found in these applications.

The **DURATHERM**, is one of many high performance burner products offered by Alzeta. These quality products are the result of years of experience in the application of gas-fired pre-mix surface combustion burners. Our state-of-the-art research and manufacturing facilities, our experienced design and engineering groups, and our dedicated and knowledgeable customer service and sales staff assure you of receiving the best burner technology for your specific needs. Whether you desire standard, off-the-shelf products or custom-designed product solutions, you can trust Alzeta to be your source for high performance burner products.

