

# Next Generation Oxy-Fuel Burners



**OXY-THERM® FHR** Dual-Fuel Burners

**OXY-THERM® FH** Forehearth Burners

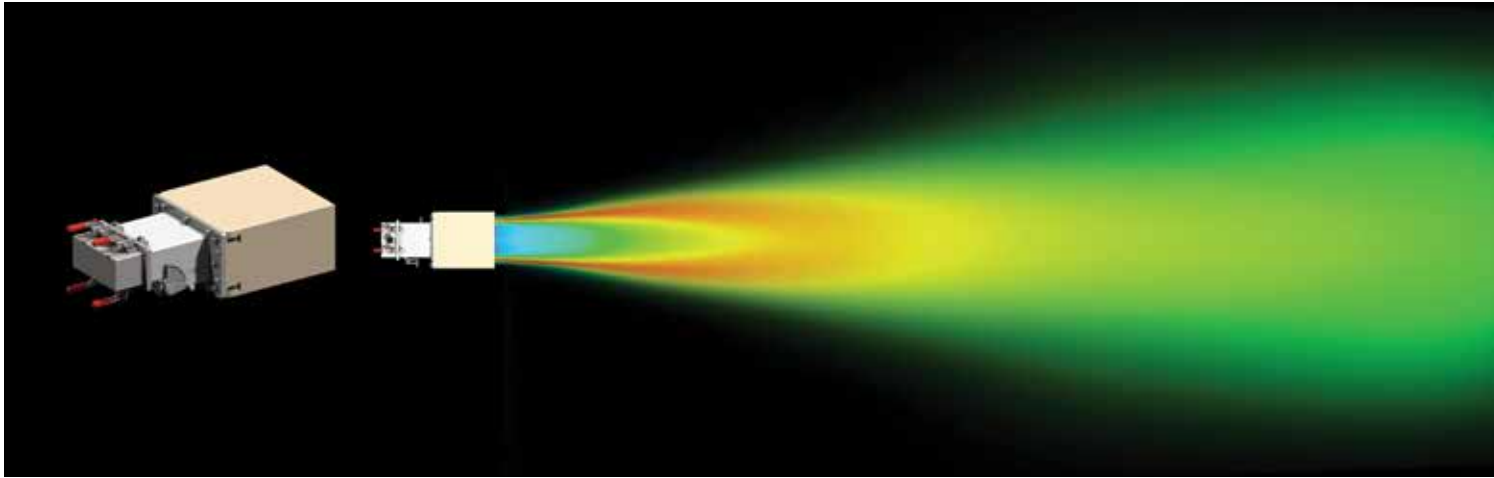
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# OXY-THERM® FHR



## Dual-Fuel Oxygen Burner

The OXY-THERM FHR burner delivers the ideal flat flame pattern for optimal heat transfer and furnace performance.

**Be prepared for tomorrow's tighter emissions standards.** The next generation in oxy-fuel technology, the OXY-THERM® FHR burner improves radiant heat transfer in high temperature applications such as glass furnaces, reheat furnaces, metals processing, and linear and rotary hearth furnaces, all while significantly reducing NOx emissions.



### Better Flame, Better Heat

High aspect ratio flat flame for greater furnace coverage

Highly radiant, optimized flame pattern for effective heat transfer

Firing range of 0.5 – 24 MBtu/h

### Performance Benefits

Fuel savings of as much as 25% (gas) or 40% (oil) compared to air-fuel burners

Increase production throughput by as much as 20%

Cuts flue gas volume by as much as 75%

### Operational Flexibility

Four block sizes, 25 gas nozzles, 13 oil nozzles to fit any application

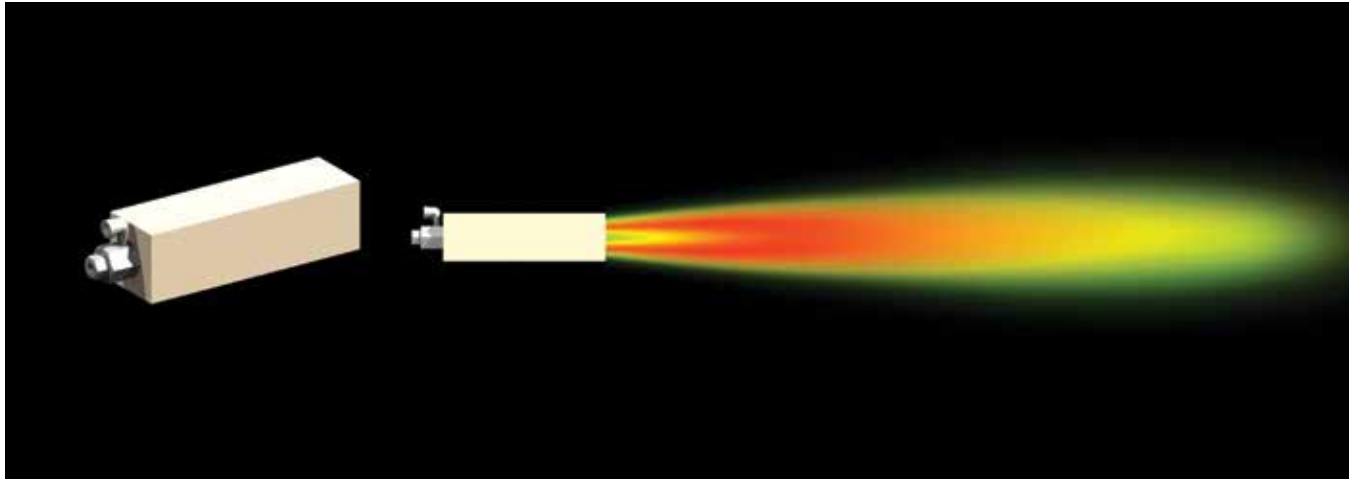
Dual fuel capable: simply change the nozzle to change the fuel

Change fuel type or burner capacity without replacing the housing assembly

Adjustable oxygen staging to vary flame length and radiant heat transfer

OXY-THERM® FHR Gas/Oil		S	M	L	XL
Maximum capacity range	MBtu/h	0.5 - 3.2	2.9 - 6.3	6.0 - 13.1	10.0 - 24.0
	MW	0.15 - 0.94	0.85 - 1.8	1.7 - 3.8	2.9 - 7.0

# OXY-THERM® FH



## Gas-Oxy Forehearth Burner

Improves heat transfer with increased flame temperature and luminosity

The next-generation technology in the OXY-THERM® FH burner maximizes efficiency and minimizes emissions.

### Better Flame, Better Heat

Improves temperature homogeneity in the glass

Fires any gaseous fuel

### Operational Flexibility

Reduced maintenance and safety issues

Ease of set up and operation

### Performance Benefits

As much as 80% reduction in NOx emissions

As much as 60% reduction in fuel consumption



### Complete Combustion Systems

Put our **Engineered Systems Group** to work ensuring professionally engineered combustion solutions, whatever your application.

To learn more, talk to your Maxon representative.

OXY-THERM® FH		FH 17	FH 25
Maximum capacity range	Btu/h	17,000	25,000
	kW	5.0	7.3

**Maxon, A Honeywell Company**

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# A Full Line of Oxy-Fuel Burners

OXY-THERM® delivers clean combustion and fuel flexibility for high temperature applications.



**OXY-THERM®**  
Gas or oil burner

- Maximum heat transfer
- Clean combustion with low emissions



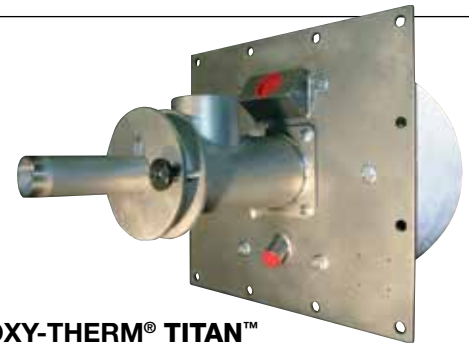
**OXY-THERM® LE FF**  
Flat flame gas burner

- Fan-shaped flame maximizes furnace coverage
- Patented oxygen staging maximizes radiant heat transfer



**OXY-THERM® LE**  
Gas or oil burner

- Lowest NOx emissions with industry's first staged oxygen burner
- Fuel flexibility: converts quickly to gas or oil

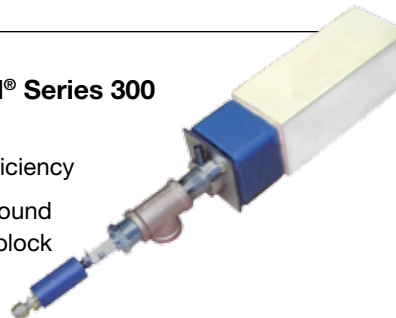


**OXY-THERM® TITAN™**  
High capacity oxy burner

- Compact flame geometry
- Mounting and ignition flexibility for a wide range of applications

**OXY-THERM® Series 300**  
Gas burner

- Increased efficiency
- Available in round and square block options



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