Next Generation Oxy-Fuel Burners

OXY-THERM® FHR Dual-Fuel Burners
OXY-THERM® FH Forehearth Burners
Dual-Fuel Oxygen Burner

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

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

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%

<table>
<thead>
<tr>
<th>OXY-THERM® FHR Gas</th>
<th>S</th>
<th>M</th>
<th>L</th>
<th>XL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum capacity range</td>
<td>MBtu/h</td>
<td>1.0 – 3.2</td>
<td>2.9 – 6.3</td>
<td>6.0 – 13.1</td>
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<tr>
<td>MW</td>
<td></td>
<td>0.29 - 0.94</td>
<td>0.85 - 1.8</td>
<td>1.7 - 3.8</td>
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</table>
Gas-Oxy Forehearth Burner

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

<table>
<thead>
<tr>
<th>OXY-THERM® FH</th>
<th>FH 17</th>
<th>FH 25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum capacity range MBtu/h</td>
<td>17</td>
<td>25</td>
</tr>
<tr>
<td>kw/hr</td>
<td>5.0</td>
<td>7.3</td>
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</tbody>
</table>

Implements heat transfer with increased flame temperature and luminosity

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

To learn more, talk to your Maxon representative.
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® LEFF**
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