Next Generation Technology:

**RED-RAY™ High Intensity Infrared Emitter**

*Energy savings, reduced emissions and greater radiant energy density*

Red-Ray™ a leading manufacturer and the inventor of gas-fired infrared burners, has 80 years of experience in the combustion industry. Selas Heat Technology Company is a pioneer in the heat technology industry with a heritage of innovation that is approaching 120 years. Together, Red-Ray™ and Selas provide industry leading product development, engineering and support to industrial thermal processors worldwide.

**More Powerful for Increased Drying Capacity:**
A siliconized silicon carbide (SiSiC) lattice is at the core of the HI-IR technology, eliminating the upper temperature limitations in current emitters.

**Lower Energy Costs:**
The structure and increased surface area of the lattice, combined with the near perfect “black body” emissivity of SiSiC, provides more radiating surface unmatched by other competing technologies.

**Reduced NOx Footprint:**
Complete combustion within cell structure of the lattice results in no open flames – lowest NOx profile for emitters in the industry.

**Simple and Easily Implemented Retrofit:**
The Red-Ray™ High Intensity Infrared Emitter is designed to mount directly to the existing mixing tubes of all leading infrared systems.

<table>
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<tr>
<th>High Intensity Infrared Features</th>
<th>Emitter Benefits</th>
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<tbody>
<tr>
<td>2450°F (1350°C), industry leading</td>
<td>Higher drying capacity</td>
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<tr>
<td>Up to 100% higher radiant energy, best in class</td>
<td>Increased production</td>
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<tr>
<td>Industry leading energy efficiency</td>
<td>Reduced operating cost, reduced NOx and CO emissions</td>
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<td>Rated capacity of 40,950 BTU/hr (12kw) per emitter</td>
<td>Flexibility in selecting installation locations</td>
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<td>Durable design</td>
<td>Resistant to water and coating damage</td>
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<td>No metal screen, high tensile strength design</td>
<td>Years of reliable performance</td>
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<td>Universal mounting design</td>
<td>Easy retrofit to existing dryer systems</td>
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Diverse Combustion Technologies. One Reliable Source.
High Intensity Infrared (HI-IR)
Upgrade Your Gas-Fired Infrared System to HI-IR Technology from RED-RAY™

The Red-Ray™ emitter is pictured in between two competitors. The next generation SiSiC lattice eliminates upper temperature limitations resulting in the highest power output.

Best in Class Heat Up and Cool Down Time

0 Seconds +30 Seconds +60 Seconds 10 Seconds

On Heat Up Full Power | Off Cool Down

A double-row of HI-12S emitters replaced 2 rows of competitor’s emitters resulting in increased drying capacity, reduced gas consumption, as well as reduced NOx emissions.

Red-Ray™ HI-IR Offers:

- Most fuel efficient design
- Lowest NOx emissions
- Highest durability

For an evaluation of your existing systems, an up-to-date drying analysis or for more information about this technology please contact:

Red-Ray™, A Brand of Selas Heat Technology
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