Sealed IR Quartz Lamps

Design Features
- Fast Filament Response
- High Power Densities possible — up to 200 watts per inch per filament
- Different filament temperatures available to suit different materials
- Optional white or gold reflective layer on lamps redirects heat towards target material
- Single or twin-tube construction
- Contour bending available

Filament Temperature Ratings

<table>
<thead>
<tr>
<th>Filament Type</th>
<th>Near Infrared (NIR)</th>
<th>Short Wave (SW)</th>
<th>Fast Response Medium Wave (FRMW) High Temperature</th>
<th>Fast Response Medium Wave (FRMW) Low Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filament Response</td>
<td>1 second</td>
<td>1 second</td>
<td>1-2 seconds</td>
<td>1-2 seconds</td>
</tr>
<tr>
<td>Filament Temperature</td>
<td>2900K/4800°F</td>
<td>2500K/4000°F</td>
<td>1900K/2900°F</td>
<td>1500K/2200°F</td>
</tr>
<tr>
<td>Approximate Peak Wavelength</td>
<td>1.0µm</td>
<td>1.2µm</td>
<td>1.6µm</td>
<td>2.0µm</td>
</tr>
<tr>
<td>Maximum watts/inch per Filament</td>
<td>200</td>
<td>200</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Average Lifetime (Hours)</td>
<td>2000</td>
<td>5000</td>
<td>5000</td>
<td>5000</td>
</tr>
</tbody>
</table>

SPECIFICATIONS

Max. Temperature: 350°C — End Seal
900°C — Quartz Tube and optional White Ceramic Reflective Layer
800°C — Optional Gold Reflective Layer

Max. Voltage: 600 Volts depending on design

LAMP GLASS TYPES

- Clear: Standard
- Ruby: Reduces Glare
- Translucent: Reduces Glare
- Frosted: Reduces Glare
- Gold Reflector: Redirects heat toward target for increased efficiency.
- White Reflector: Redirects heat toward target for increased efficiency similar to gold, but will not degrade over time at high temperatures.

Custom Designs

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