Radiant Heaters

Features and Benefits
- Economical and easy to install
- Invisible, silent in operation
- No yearly maintenance cost
- Shortwave IR halogen lamp
- One second heat up time
- Precision heating directed where you need it
- Up to 5000 hours element life span
- IP65 (VARO model)

Profile
Vent-Axia’s heating portfolio continues to expand to meet our customer’s demands. Portable products, electric underfloor and renewable heating technology such as our range of ground and air source heat pumps are some examples within our comprehensive range.

Our radiant heating product introduction gives the portfolio the flexibility to deal with large and small unheated spaces which would be uneconomical to heat using traditional space heating.

Area such as bars, restaurants, terraces, delivery areas, warehouses and Churches, are some examples where our new radiant heating products will provide an economical heating solution.

Radiant heat and its advantages
The heat we feel from the sun is called Radiant heat and is part of the electromagnetic spectrum called infrared. Ultra violet and visible light also belong to the same family.

Visible light is the easiest part of this spectrum to understand. Light travels in a straight line from the source which is unaffected by air and is invisible until it hits a surface. Shadows are a good example of this and are the absence of light.

Infrared rays behave in the same way. We cannot see them but we can feel them as warmth. A good example of this is the effect created when you move from the shade into the sun, although the temperature is the same the perceived temperature when in direct sunlight is much higher. This phenomenon makes sunbathing possible during winter holidays.

These are three categories of Infrared, short wave (IR A), medium wave (IR B) and long wave (IR C). The shorter the wavelength the easier it travels through the air heaters.

Convection Heating and Radiant Heating Comparison

Wave spectrum

Wave infrared comparison

<table>
<thead>
<tr>
<th>Wave infrared comparison</th>
<th>Short Wave Infrared</th>
<th>Medium Wave Infrared</th>
<th>Long Wave Infrared</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typical Source</td>
<td>IR Halogen Lamp</td>
<td>Quartz Heat Source</td>
<td>Resistance</td>
</tr>
<tr>
<td>Materials</td>
<td>Tungsten Filament welded in a quartz tube</td>
<td>Filament in compound of Fe-Cr-Al in a quartz tube</td>
<td>Filament in compound of Fe-Cr-Al in a steel tube</td>
</tr>
<tr>
<td>Radiant efficiency</td>
<td>92%</td>
<td>60%</td>
<td>40%</td>
</tr>
<tr>
<td>Switch on/off times</td>
<td>1 second</td>
<td>30 second</td>
<td>5 minutes</td>
</tr>
</tbody>
</table>
### Technical Details

<table>
<thead>
<tr>
<th>Model Ref</th>
<th>Stock</th>
<th>£Trade</th>
<th>Weight</th>
<th>Voltage rating</th>
<th>Bulb</th>
<th>Luminous spectrum</th>
<th>Accessories</th>
<th>Power</th>
<th>Heating range</th>
<th>Replacement Elements</th>
</tr>
</thead>
<tbody>
<tr>
<td>VARI 2000</td>
<td>447602</td>
<td>184.18</td>
<td>2.2 kg</td>
<td>220-240V - 50-60Hz</td>
<td>gold</td>
<td>IR-A</td>
<td>wall bracket</td>
<td>2000W</td>
<td>9-12m²</td>
<td>VARI 447605</td>
</tr>
<tr>
<td>VARI 4000</td>
<td>447603</td>
<td>268.80</td>
<td>3.0 kg</td>
<td>220-240V - 50-60Hz</td>
<td>gold</td>
<td>IR-A</td>
<td>wall bracket</td>
<td>4000W</td>
<td>12.16m²</td>
<td>VARI 447605</td>
</tr>
<tr>
<td>VARI 6000</td>
<td>447604</td>
<td>351.56</td>
<td>3.8 kg</td>
<td>380-415V - 50-60Hz</td>
<td>gold</td>
<td>IR-A</td>
<td>wall bracket</td>
<td>6000W</td>
<td>16-20m²</td>
<td>VARI 447605</td>
</tr>
<tr>
<td>VARIO 1800</td>
<td>447600</td>
<td>114.95</td>
<td>1.0 kg</td>
<td>230V - 50-60Hz</td>
<td>gold</td>
<td>IR-A</td>
<td>wall bracket</td>
<td>1800W</td>
<td>8.10 m²</td>
<td>VARIO 447606</td>
</tr>
</tbody>
</table>

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**Dimensions (mm)**

- **Front Side Top: 235 x 313 x 376**
- **Side: 313 x 486**
- **Top: 496**

- **Front Side Top: 515 x 313 x 496**
- **Side: 313 x 496**
- **Top: 496**

- **Side: 836 x 112**

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Free technical, installation and sales advice is available

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