HYPERION R 982
Low temperature primary Blackbody source, -10°C to 80°C
The Hyperion R 982 portable Blackbody calibration source allows for calibration of non-contact infrared thermometers from -10°C to 80°C. It is suitable for use as a primary radiation source for infrared thermometers.

**Description**

The Hyperion R 982 portable Blackbody calibration source allows for calibration of non-contact infrared thermometers from -10°C to 80°C. It is suitable for use as a primary radiation source for infrared thermometers.

Laboratory performance and low uncertainty calibrations are ensured by the combination of high emissivity and excellent temperature uniformity.

The digital temperature controller allows the block temperature to be set to any value from -10°C to 80°C.

Traceability of the radiance temperature is established by a separate, built-in temperature indicator and an included Platinum resistance thermometer.

A three point traceable calibration certificate is included in standard. UKAS calibration of the resistance thermometers is available in option.

Uniformity of the block is ensured by using distributed thermoelectric heat pumps with the benefit of vibration free cooling.

**Key features:**

- Low temperature radiation primary source: -10°C to 80°C
- Large cavity: 50 mm diameter
- Emissivity: 0.995
## Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature range</td>
<td>-10°C to +80°C</td>
</tr>
<tr>
<td>Cavity size</td>
<td>50 x 150 mm deep</td>
</tr>
<tr>
<td>Stability</td>
<td>±0.1°C</td>
</tr>
<tr>
<td>Emissivity</td>
<td>&gt; 0.995</td>
</tr>
<tr>
<td>Heating time</td>
<td>To 80°C: 40 min</td>
</tr>
<tr>
<td>Cooling time</td>
<td>To -10°C: 45 min</td>
</tr>
</tbody>
</table>

## General specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>310 x 265 x 200 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>10 kg</td>
</tr>
<tr>
<td>Display</td>
<td>Resolution: 0.01°C</td>
</tr>
<tr>
<td>Power supply</td>
<td>100 / 130 V or 208 / 240 VAC, 50/60 Hz, 200 Watts</td>
</tr>
</tbody>
</table>
Models and accessories

Instrument:
Hyperion R 982   Low temperature primary Blackbody source, -10°C to 80°C
Delivered in standard with:

- Standard probe 935-14-13/DB
- Cal Notepad software
- Serial communication cable
- User manual
- Traceable certificate

Accessories:
812-01-06      Set of 4 orifice plates to reduce cavity size (40 / 30 / 20 / 10 mm)
935-14-13/DB   Replacement standard probe
931-22-64      Carrying case
UKAS           Calibration certificate at ±3°C
UKAS Premium   Calibration certificate at ±0.8°C

Packing information:
Size            310 x 265 x 200 mm
Weight without packing   10 kg