

Hyperion R Low-Temperature Blackbody Source

Model 982

The Hyperion R calibrator comprises a blackbody cavity for calibration of infrared thermometers.

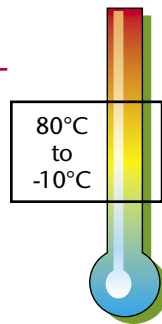
The temperature of the furnace is set on a controller, while an independent indicator, whose sensor fits into the cavity, indicates the actual radiance temperature. The sensor can be removed from the Blackbody and placed in a drywell or liquid bath for a complete system calibration.

The temperature of the cavity can be set to within 0.01°C at any point from -10°C to +80°C. An important factor is that its operation range includes ambient temperature, a popular measurement point.

This elegant, modern-styled range has been designed to work from a series of Peltier modules, which can be used either to heat or to cool a metal block. In conjunction with a specially programmed microprocessor-based controller it offers a unique concept in calibration sources.

With this calibrator, a temperature above, below, or at ambient temperature can be set and will be maintained whether the source needs to be cooled or heated.

Traceability may be established with a NIST certificate for the built-in indicator and supplied probe.



Now Includes
PC Interface and
Cal NotePad
Windows Software

Key Features

- Low Temperature Blackbody Source
- 50mm Cavity Diameter
- 0.995 Emissivity
- Portable

SPECIFICATIONS

Model	982
Temperature Range	-10°C to 80.0°C
Accuracy	± 1°C
Emissivity	Greater than 0.995
Stability	±0.1°C
Display Resolution	0.01°C
Cavity Size	50mm diameter 150mm deep
Time to Temperature	45 minutes to -10°C 40 minutes to 80°C
Power	110 VAC ± 10% 200 Watts typical
Dimensions	310mm x 265mm x 200mm (HxWxD)
Weight	22 lbs (10kg)

ACCESSORIES

935-14-13	Probe
931-22-27	Carrying Case
812-01-06	Set of 4 orifice plates to restrict cavity aperture diameter to 40mm, 30mm, 20mm or 10mm

HOW TO ORDER

982 Hyperion R	Black Body Source
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