

MEDUSA R 999

High temperature primary Blackbody source, 150°C à 1200°C

The Medusa R 999 Blackbody calibration source allows for calibration of non-contact infrared thermometers from 30°C to 550°C. It is suitable for use as a radiation source for infrared thermometers. For the smallest uncertainties, the Medusa R 999 may be used with ITS-90 Fixed Point cells of Gallium, Indium, Tin and Zinc.

Description

The Medusa R 999 Blackbody calibration source allows for calibration of non-contact infrared thermometers from 30°C to 550°C. It is suitable for use as a radiation source for infrared thermometers.

The cavity is 45 x 285 mm deep and suitable for use with the larger Fixed Point cells.

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 30°C to 550°C.

Uniformity of the block is ensured by using distributed heating technology.

For the smallest uncertainties, the Medusa R 999 may be used with ITS-90 Fixed Point cells of Gallium (29.7646°C), Indium (156.5985°C), Tin (231.928°C) and Zinc (419.527°C). The cells are supplied with a certificate of metal purity.

Key features:

- Medium temperature radiation source: 30°C to 550°C
- Large cavity: 45 x 285 mm
- Emissivity: > 0.995

Specifications

Temperature range	30°C to 550°C
Cavity size	45 x 285 mm deep
Stability	±0.1°C
Emissivity	> 0.995
Heating time	45 min

General specifications

Size	480 x 425 x 260 mm
Weight	17 kg
Display	Resolution: 0.01°C at 99.99 and 0.1°C at 100 / 550
Power supply	100 / 130 V or 208 / 240 VAC, 50/60 Hz 1000 Watts

Models and accessories

Instrument:

Medusa R 999 Medium temperature large primary Blackbody source, 30°C à 550°C

Delivered in standard with:

- Standard probe 935-14-95H
- Cal Notepad software
- Serial communication cable
- User manual
- Traceable certificate

Accessories:

935-14-95H Replacement standard probe, -80°C to 670°C

931-22-64 Carrying case

984 Gas flow system

Large Fixed Point cells:

998-06-00A Indium large Fixed Point cell (156.60°C)

998-06-00B Tin large Fixed Point cell (231.93°C)

998-06-00C Zinc large Fixed Point cell (419.53°C)

UKAS Calibration certificate

NPL Calibration certificate

Packing information:

Size 480 x 425 x 260 mm

Weight without packing 17 kg