



## 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	$\pm 0.1^{\circ}\text{C}$
Emissivity	$> 0.995$
Heating time	45 min

## General specifications

Size	480 x 425 x 260 mm
Weight	17 kg
Display	Resolution: $0.01^{\circ}\text{C}$ at 99.99 and $0.1^{\circ}\text{C}$ 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