

# BB976

## Blackbody Source



- 30°C to 550°C
- Emissivity > 0.995
- 65 mm Diameter Cavity

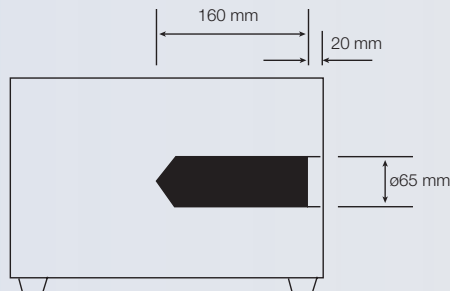
### GENERAL SPECIFICATIONS

<b>Temperature Range</b>	30°C to 550°C
<b>Emissivity</b>	Greater than 0.995
<b>Stability</b>	±0.1°C
<b>Display Resolution</b>	0.01°C to 99.99; 0.1°C from 100 to 550
<b>Heating Time</b>	45 minutes
<b>Aperture Diameter</b>	65 mm
<b>Cavity Depth</b>	160 mm
<b>PC Interface</b>	Included
<b>Power</b>	1000 W typical
<b>Voltage</b>	100-130 or 208-240 V AC, 50/60 Hz
<b>Dimensions</b>	H 310 mm, W 265 mm, D 200 mm
<b>Weight</b>	10 kg

### OPTIONS

<b>Gallium Hockey Puck Cell</b>	431-03-00
<b>Indium Hockey Puck Cell</b>	976-05-00A
<b>Tin Hockey Puck Cell</b>	976-05-00B
<b>Zinc Hockey Puck Cell</b>	976-05-00C
<b>Orifice Plates 10, 20, 30, 40 50 mm</b> (Restricts Cavity Aperture)	976-01-05
<b>Carrying Case</b>	931-22-64

BB976



The BB976 Portable Blackbody Calibration Source allows for calibration of non-contact infrared thermometers over the temperature range 30°C to 550°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 30°C to 550°C.

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

A three point traceable calibration certificate is included. UKAS calibration of the resistance thermometer is available, as is radiometric calibration.

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

For the smallest of uncertainties the BB976 may be used with ITS-90 Fixed Point Cells, Gallium 29.7646°C, Indium 156.5985°C, Tin 231.928°C and Zinc 419.527°C. The cells are provided with a certificate of metal purity.