



- High performance blackbody calibration source for infrared temperature sensors
- Adjustable temperature setpoint 30°C to 550°C
- Very high emissivity > 0.995
- 65 mm cavity diameter

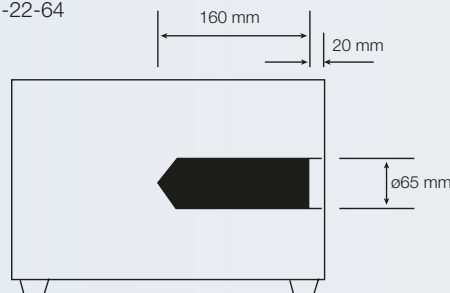
GENERAL SPECIFICATIONS

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

OPTIONS

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