

High Temperature Blackbody Calibration Source

BLACK POINT™ BB-4A



Standard

- ✓ Calibrate From 100 to 982°C (212 to 1800°F)
- ✓ Portable Rugged Design
- ✓ Built-In Digital PID Autotune Temperature Controller with Temperature Readout
- ✓ NIST-Traceable Calibration Certificate Included with 3 Data Points
- ✓ RS232 Standard
- ✓ Built-In Type K Reference Probe Output

This BB-4A is a blackbody temperature reference source which is adjustable over the range from 100 to 982°C (212 to 1800°F) and accurate to $\pm 1^\circ\text{C}$, $\pm 0.25\%$ reading of the indicated temperature. It has a built-in digital temperature controller to provide accurate, stable temperatures as well as to provide the temperature readings of the cavity. The heated cavity provides a target of known temperature and emissivity, and virtually any infrared pyrometer with a spot size diameter less than 22 mm (0.88") can be calibrated. The compact, portable design allows for quick and easy calibration setups.

Specifications

Operating Temperature Range:

100 to 982°C (212 to 1800°F)

Accuracy: $\pm 1^\circ\text{C}$, $\pm 0.25\%$

($\pm 1.8^\circ\text{F} \pm 0.25\%$) rdg

Stability: $\pm 0.15^\circ\text{C}$ or less

Environmental

Operating Conditions

Ambient Temperature:

0 to 50°C (32 to 122°F)

Caution: To avoid fire hazard or damage to your calibrator, always allow your calibrator to cool down to ambient temperature before returning to storage.



BB-4A shown smaller than actual size.



Shown calibrating the OS1552-A pyrometer. Visit omega for details.

Use the BB-4A to Calibrate Both Infrared Pyrometers and Transmitters.

Humidity: 0 to 90% RH non-condensing

Power: 115 Vac, 50/60 Hz or 230 Vac, 50/60 Hz, 400 W

Internal Sensing Element:

Type K thermocouple

Cavity Emissivity: 0.99

Warm-Up Time: 1.0 hr from ambient to 982°C (1800°F)

Cavity Opening: 22 mm (0.88")

Weight:

BB-4A: 8 kg (17 lb)

BB-4A-230VAC: 15 kg (33 lb)

Dimensions:

190 H x 410 W x 264 mm D

(7.5 x 16.12 x 10.4")

We make running changes when technical advances allow. Check at time of ordering for additional features.

To Order

Model No.	Description
BB-4A	High temperature blackbody, 115 Vac range 100 to 982°C (212 to 1800°F)
BB-4A-230VAC	High temperature blackbody, 230 Vac range 100 to 982°C (212 to 1800°F)

Comes complete with operator's manual and NIST calibration certificate.

Ordering Examples: BB-4A, high-temperature blackbody calibration source.