

High Temperature Blackbody Calibration Source

Display
Switchable
°C or °F.

BLACK POINT™ BB-4A



Standard 230 Vac
model only

- ✓ 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

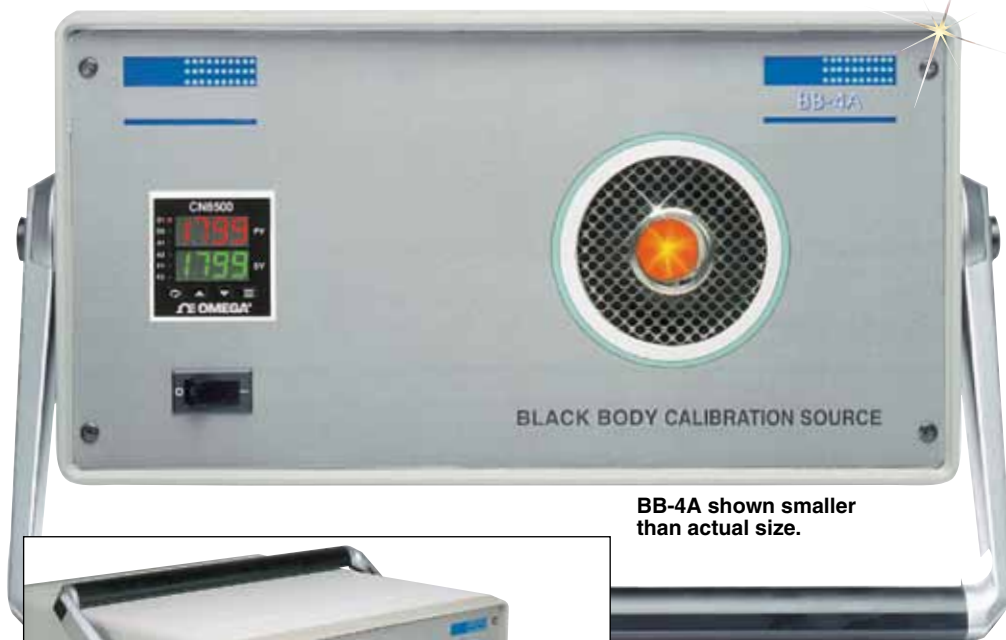
Stability: $\pm 0.15^\circ\text{C}$ or less

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.com 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")



OMEGACARESM extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARESM covers parts, labor and equivalent loaners.

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

To Order Visit omega.com/bb-4a for Pricing and Details

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.

*Note: Only 230 Vac model is available as CE marked.

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

OCW-3, OMEGACARESM extends standard 2-year warranty to a total of 5 years.