

Miniature Blackbody Calibration Source

Portable Design and High Temperature Range

BLACK POINT™ BB703



Standard 230 Vac model only



Models with RS232 and Free Software Available!

- ✓ Calibrates From Ambient 10 to 400°C (Ambient 20 to 752°F)
- ✓ Portable Miniature Design
- ✓ Built-In Digital 1/32 DIN Temperature Controller
- ✓ Calibrates Infrared Instruments Quickly and Accurately
- ✓ NIST-Traceable Calibration Certificate with 3 Data Points Included
- ✓ Soft Carrying Case Included
- ✓ Optional RS232 Communications with Free CN9-SW Communications Software and Cable

The BB703 is a high performance, rugged, miniature blackbody calibrator. It is used for infrared pyrometer calibrations with a temperature range of ambient 10 to 400°C (ambient 20 to 752°F). With its unique miniature design and built-in 29 mm (1.125") target plate, the BB703 is an ideal and economical infrared calibrator for any laboratory or field service application. The "-C2" option allows for remote configuring, adjustment, and reading. Free software is included with these models.

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

Specifications

Target Plate Temperature Range:
 Ambient 10 to 400°C
 (Ambient 20 to 752°F)**

Ambient Environmental Conditions:
Temperature: 0 to 40°C (32 to 104°F)**
Humidity: 0 to 90% RH, non-condensing

Power:
BB703: 115 Vac, 50/60 Hz 175 W
BB703-230VAC: 230 Vac, 50/60 Hz, 175 W

Internal Control Sensor: Platinum RTD, Class A, 100Ω, alpha = 0.00385

Accuracy: ±1.4°C (±2.5°F)
Resolution: 0.1°
Stability: 0.3°C (±0.5°F)
Display Accuracy: 0.3°C (±0.6°F) [over entire range]
Target Plate Emissivity: 0.95
Size: 56 H x 127 W x 155 mm D (2.2 x 5 x 6.1")

Weight: 1.09 kg (2.4 lb)
Certifications: CE (BB703-230VAC only)
Installation Category: II
 ** Maximum setpoint must be reduced when operating at ambient temperatures in excess of 25°C (77°F).

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



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

To Order Visit omega.com/bb703 for Pricing and Details

Model No.	Description
BB703	Miniature blackbody calibration source, 115 Vac
BB703-230VAC*	Miniature blackbody calibration source, 230 Vac

Communications Option

Suffix	Description
-C2	RS232 communications and free CN9-SW software, pre-wired, 1.8 m (6') cable included

Comes complete with operator's manual, NIST calibration certificate and soft carrying case.

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

Ordering Examples: BB703-C2, 115 Vac blackbody calibration source, with the RS232 option, OMEGACARE™ extends standard 3-year warranty to a total of 5 years.