

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

### To Order Visit [omega.com/bb703](http://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<sup>SM</sup> extends standard 3-year warranty to a total of 5 years.