

# Miniature Blackbody Calibration Source

## Portable Design and High Temperature Range



**BLACK POINT™  
BB703**



Standard



- ✓ 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

**Models with RS232 and Free Software Available!**

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)

**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)

**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.**

To Order	
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.  
**Ordering Examples:** BB703-C2, 115 Vac blackbody calibration source, with the RS232 option.