

# High Performance Blackbody Calibration Source

## BLACK POINT™ BB702



Standard 230 Vac model only

- ✓ Calibrates From Ambient 10 to 215°C (Ambient 20 to 420°F)
- ✓ Portable, Rugged Design
- ✓ Calibrates Infrared Pyrometers Quickly and Accurately
- ✓ Built-In Digital PID Autotune Temperature Controller with Temperature Readout
- ✓ NIST-Traceable Calibration Certificate Included with Three Data Points
- ✓ RS232 Standard
- ✓ Tilt Stand for Benchtop Operation and Easy Portability
- ✓ Built-In RTD Reference Probe Output

The BB702 blackbody calibrator is a high performance, rugged, portable calibrator for infrared pyrometers. The BB702 has a range of ambient 10 to 215°C (ambient 20 to 420°F). Both models come standard with an RS232 computer interface which allows computer control of the setpoint for automatic text applications. A NIST-traceable calibration certificate is also provided.

**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 215°C  
(ambient 20 to 420°F)

**Accuracy:**  $\pm 0.5^{\circ}\text{C}$ ,  $\pm 0.25\%$  rdg  
( $\pm 0.9^{\circ}\text{F}$ ,  $\pm 0.25\%$  rdg)

**Stability:**  $\pm 0.1^{\circ}\text{C}$  ( $\pm 0.2^{\circ}\text{F}$ )

#### Ambient Environmental Conditions:

**Temperature:** 5 to 45°C (41 to 113°F)

**Humidity:** 0 to 90% RH,  
non-condensing

**Target Plate Size:** 63.5 mm (2.5")

**Target Plate Emissivity:** 0.95

**Internal Control Sensor:** Platinum RTD,  
class A,  $\alpha = 0.00385$

**Reference Sensor:** Platinum RTD,  
class A,  $\alpha = 0.00385$

**Warm-Up Time:** 12 min from ambient  
to 204°C (400°F)

#### Power:

**BB702:** 115 Vac, 50/60 Hz, 75 W

**BB702-230VAC:** 230 Vac,  
50/60 Hz, 75 W

#### Dimensions:

152 H x 305 W x 280 mm L  
(6 x 12 x 11")

**Weight:** 7.2 kg (16 lb)

**Certifications:** CE (230 Vac model only)

**Installation Category:** II

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

### To Order

Model No.	Description
BB702	BB calibration source, 115V, range: ambient 10 to 215°C (ambient 20 to 420°F)
BB702-230VAC*	BB calibration source, 230V, range: ambient 10 to 215°C (ambient 20 to 420°F)