

# Blackbody Calibration Source

## Large 102 mm (4") Cavity Opening

**BB704**



Standard

- ✓ Calibrates From 100 to 398°C (212 to 750°F)
- ✓ Portable, Rugged Design
- ✓ Large 102 mm (4") Target Plate
- ✓ Calibrates Infrared Pyrometers Quickly and Accurately
- ✓ Built-In Digital PID Autotune Temperature Controller with Temperature Readout
- ✓ Traceable Calibration Certificate with 3 Temperature Data Points Included
- ✓ RS232 Output Standard
- ✓ Built-In RTD Reference Probe Output

The BB704 is a blackbody temperature reference source which is adjustable over a range of 100 to 398°C (212 to 750°F) and accurate to ±0.8°C (±1.4°F) 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 target plate. The heated cavity provides a target of known temperature and emissivity, and virtually any infrared pyrometer with a spot size diameter of 102 mm (4") or smaller can be calibrated. The compact, portable design allows for quick and easy calibration setups.



BB704

### Specifications

**Ambient Temperature:**  
0 to 50°C (32 to 122°F)  
**Power:** 115 Vac 50/60 Hz or 230 Vac 50/60 Hz, 425 W  
**Operating Temperature Range (Blackbody Cavity):**  
100 to 400°C (212 to 752°F)  
**Internal Sensing Elements:** RTD  
**Accuracy:** ±0.8°C (±1.4°F)  
**Stability:** ±0.1°C (±0.2°F)  
**Cavity Emissivity:** 0.95  
**Warm-up Time:** 20 minutes from ambient to 398°C (750°F)  
**Target Plate Diameter:** 102 mm (4")  
**Dimensions:** 410 x 190 x 264 mm (16.12 x 7.50 x 10.38")  
**Weight:** 7.27 kg (16 lb)

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

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

To Order	
Model No.	Description
BB704	Blackbody calibration source, 115 Vac, 100 to 398°C (212 to 750°F)
BB704-230VAC	Blackbody calibration source, 230 Vac, 100 to 398°C (212 to 750°F)

Comes complete with operator's manual, power cord, reference probe connector, and NIST-traceable calibration certificate.

**Ordering Example:** BB704, 115 Vac blackbody calibration source.