

BB1500 BA HIGH TEMPERATURE BLACKBODY FURNACE



The BB1500 BA is a high temperature blackbody calibration source utilizing a digital indicating temperature up to 1600°C. A precision thermocouple N temperature sensor is embedded in the blackbody emitter, providing high accuracy and repeatability. The temperature controller uses the industry standard PID algorithms to control the emitter temperature to within 0.1°C of the set points.

The black body emitter mechanism uses a resistive heating device that provides a long life, short stabilization times, and stable temperature control.

FEATURE

- Temperature is up to 1800°C.
- Emissivity is better than 0.995
- Stability is up to 0.1°C.
- Uniformity is up to 0.15°C
- 50 mm aperture diameter
- Build-in temperature correction function

TYPICAL APPLICATION

- Infrared temperature sensors
- Infrared thermal imaging systems
- Spectrographic analyzers
- Radio meters
- Flux meter

SPECIFICATION

Temperature range	500 to 1500°C, 600 to 1600°C
Aperture Diameter	50 mm (1.97 inch)
Heated Emitter Shape	Closed end tube
Emissivity	better than 0.995
Display Resolution	0.1°C
Control stability (10min)	0.1°C or 0.1%rd (whichever is great)
Uniformity	0.15°C or 0.15%rd (whichever is great)
Tube depth	400mm
Control method	PID
Temperature Sensor	Thermocouple N
Power Supply	220V / 110 AC / 4000WA
Interface	RS232
Heat up time	1 hour from ambient to 500°C, 2 hours from 500°C to 1600°C,
Calibration Method	Pyrometric
Dimension w/o holder	520(W) x 900(H) x 720mm(D)
Net Weight	120 kg approx.

SCOPE OF DELIVERY

- BB1500 BA High temperature blackbody furnace
- Power cord
- Spare fuse
- User manual
- Factory calibration report

OPTIONAL ACCESSORIES

- Accredited calibration certificate (P/N: CAL-679)

ORDERING MODEL NUMBER

- BB1500BA -1500
- BB1600BA -1600