

**CALsys
1500BB**

500 to 1500°C

HIGH STABILITY BLACK BODY FURNACE

GENERAL

CALsys 1500BB calibration source is a highly stable standard Black Body Furnace for calibrating non contact IR thermometer for the wide temperature range of 500 to 1500°C.

The unique feature of this Black Body Furnace is large temperature controlled black body target with a diameter of 50 mm and depth 300mm which offer large view area for IR Thermometer.

The Emissivity of the target is 0.99(±0.01). The temperature of the calibrator is set and controlled by a self tuned PID controller with automatic super fine adjustment.

KEY FEATURES

- ✓ Use of Silicon Carbide Spiral Rod Heaters
- ✓ Wide Operating Range (500 to 1500°C)
- ✓ High Stability
- ✓ PC interfacing
- ✓ Simple to use and cost effective
- ✓ Sighting tube

STANDARD ACCESSORIES

- **NABL** accredited calibration certificate - 3 point
- **Software** - Cal Soft including for setting bath temperature and monitoring the PV. Graphical representations of PV/TIME with 2 hours data logging.
- Operational Manual

OPTIONAL ACCESSORIES

Black Body Cavity.....Part No. EQ3



SPECIFICATIONS

Temperature Range : 500 to 1500°C

Temperature Resolution : 1.0°C

Stability : ±0.4°C at 500°C
±0.7°C at 1000°C
±1.0°C at 1500°C

Controlling Sensor : PT-RH/PT T/C

Method of Control : Digital self tuned PID Controller

Heaters : Silicon Carbide Spiral Rod Heater

Time to Reach Max Temp : 2.5 Hrs

Computer Interface : RS - 232

Operating Temperature : 20 to 45°C

Power Requirement : 230 VAC, 3.5 KW

Dimensions : 580(H) x 500(W) x 675(D) mm

Radiation Cavity Type & Dimension : Silicon Carbide,
50 mm Dia x 300mm depth

Sighting Tube Dimension : 37±1mm dia & 140mm depth

Weight : 65 Kg