

CALsys
1200BB

300 to 1200°C

HIGH STABILITY BLACK BODY FURNACE

GENERAL

CALsys 1200BB calibration source is a highly stable standard Black Body Furnace for calibrating non contact IR thermometer for the wide temperature range of 300 to 1200°C.

The unique feature of this Black Body Furnace is large temperature controlled black body target with a diameter of 40 mm 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

- ✓ Wide Operating Range (300 to 1200°C)
- ✓ High Stability
- ✓ PC interfacing
- ✓ Simple to use and cost effective

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

Master Pyrometer
Black Body Cavity.....Part No. EQ3

SPECIFICATIONS

Temperature Range : 300 to 1200°C

Temperature Resolution : 1.0°C

Stability : ±0.2°C at 500°C

±0.3°C at 800°C

±0.5°C at 1200°C

Controlling Sensor : Precision PT/RH-PTT/C

Method of Control : Digital self tuned PID Controller

Time to Reach Max Temp : 1.5 Hrs

Computer Interface : RS - 232

Operating Temperature : 20 to 45°C

Power Requirement : 230 VAC, 2.5 KW

Dimensions : 500(H) x 400(W) x 490(D) mm

Radiation Cavity Type : Silicon Carbide, 46 mm Dia

External Aperture : 40 mm Dia

Weight : Approx 50 Kg