

**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 50 mm and 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

- ✓ Wide Operating Range (300 to 1200°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

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, 2.5KW

**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** : Approx 65 Kg