HIGH STABILITY BLACK BODY FURNACE

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 and 85mm 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.

**SPECIFICATIONS**

- **Temperature Range**: 300 to 1200°C
- **Temperature Resolution**: 1.0°C
- **Stability**: ±0.2°C at 300°C, ±0.3°C at 800°C, ±0.5°C at 1200°C
- **Controlling Sensor**: Precision PT/RH-PT T/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 of cabinet**: 590(H) x 450(W) x 530(D) mm
- **Radiation Cavity Type**: Silicon Carbide
- **Dimension of cavity**: 46 mm Dia x 85mm depth
- **External Aperture**: 40 mm dia
- **Weight**: 50 Kg (without packing)

**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