

**CALsys
1700BB**

500 to 1700°C

HIGH TEMPERATURE BLACK BODY FURNACE GENERAL

CALsys 1700BB calibration source is a highly stable standard Black Body Furnace for calibrating non contact IR thermometer for the wide temperature range of 500 to 1700°C.

The unique feature of this Black Body Furnace is large temperature controlled black body target with a diameter of 29 mm which offer large view area for IR Thermometer.

The Emissivity of the target is 0.97(±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 Molybdenum Disilicide Heaters (MoSiO₂)
- ✓ Wide Operating Range (500 to 1700°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 : 500 to 1700°C

Temperature Resolution : 0.1°C

Stability : ±0.7°C at 500°C
±1.4°C at 1200°C
±2.0°C at 1700°C

Controlling Sensor : Precision PT/RH-PTT/C

Heaters : MoSiO₂

Method of Control : Digital self tuned PID Controller

Time to Reach Max Temp : 3 Hrs

Computer Interface : RS - 232

Operating Temperature : 20 to 45°C

Power Requirement : 230 VAC, 3 KW

Dimensions : 640(H) x 500(W) x 550(D) mm

Black Body Cavity Aperture : 29 mm, End closed tube

Weight : 80 Kg