

CALsys 1000BB calibration source is a highly stable standard Black Body Furnace for calibrating noncontact IR thermometer for the wide temperature range of 50 to 1000°C.

The unique feature of this Black Body Furnace is large temperature controlled black body target with a diameter of 29 mm 150mm depth which offer large view area for IR Thermometer.

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



## SPECIFICATIONS

<b>Temperature Range</b>	:50 to 1000°C
<b>Temperature Resolution</b>	:0.1
<b>Cavity Uniformity</b>	: $\pm 4$ or better (at 800°C Or higher)
<b>Stability</b>	: $\pm 0.3^\circ\text{C}$ at 50°C : $\pm 0.4^\circ\text{C}$ at 500°C : $\pm 0.6^\circ\text{C}$ at 1000°C
<b>Emissivity</b>	:0.99 ( $\pm 0.01$ )
<b>Controlling Sensor</b>	:Precision PT/RH-PT T/C
<b>Method of Control</b>	:Digital self tuned PID Controller
<b>Time to reach max temp</b>	: $\leq 1.5$ hr
<b>Computer Interface</b>	:RS - 232
<b>Operating Temp</b>	:20 to 45°C
<b>Power Requirement</b>	:230VAC, 2.0KW
<b>Dimensions</b>	:270(H) x 360(W) x 270(D) mm
<b>Radiation Cavity Type</b>	:Silicon Carbide
<b>Cavity Dimension</b>	:29 mm Dia x150 mm depth
<b>External Aperture</b>	:25 mm dia
<b>Weight</b>	:Approx 15 Kg

## KEY FEATURES

- ✓ Wide Operating Range (50 to 1000°C)
- ✓ High Stability
- ✓ PC interfacing
- ✓ Simple to use and cost effective
- ✓ Sighting tube

## ACCESSORIES

- ✓ Reference Standard Thermocouple ('N'Type T/C)..... Part No. TTCN-300
- ✓ 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.
- ✓ Operating Manual

## KEY FEATURES

- ✓ Master Pyrometer
- ✓ Black Body.....Part No. : EQ3