

PORTABLE BLACK BODY

GENERAL

CALsys 500BB calibration source is a highly stable standard Portable Black Body Furnace for calibrating non contact IR thermometer for the wide temperature range of 50 to 500°C.

The unique feature of this Portable Black Body Furnace is large temperature controlled black body target with a diameter of 100 mm which offer large view area for IR Thermometer

The Emissivity of the target is 0.95(±0.01). The temperature of the Calibrator is set and controlled by a self tuned PID controller with automatic super fine adjustment.



KEY FEATURES

- ✓ Large Aperture Area
- ✓ Wide Operating Range (50 to 500°C)
- ✓ High Stability
- ✓ PC interfacing
- ✓ Simple to use and cost effective
- ✓ Portability

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
- Carry Case

OPTIONAL ACCESSORIES

Master Pyrometer

SPECIFICATIONS

Temperature Range : 50 to 500°C

Temperature Resolution : 0.1°C

Stability : ±0.5°C at 50°C
±0.8°C at 250°C
±1.0°C at 500°C

Controlling Sensor : T/C "N" type

Method of Control : Digital self tuned PID Controller

Emissivity : 0.95 ±0.01

Time to Reach Max Temp : 45 Mins

Computer Interface : RS - 232

Operating Temperature : 20 to 45°C

Power Requirement : 230 VAC, 1.0 KW

Dimensions : 270(H) X 360(W) X 270(D) mm

Target Size : Dia - 100 mm (Ridged Aluminum Plate)

Weight : Approx 10 Kg