

## PORTABLE BLACK BODY

CALsys 500BB calibration source is a highly stable standard portable black body furnace for calibrating non contact IR thermometer for the 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 size of 100 mm dia which offer large view area for IR thermometer.

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

## SPECIFICATIONS

<b>Temperature Range</b>	: 50 to 500°C
<b>Temperature Resolution</b>	: 0.1°C
<b>Stability</b>	: ± 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

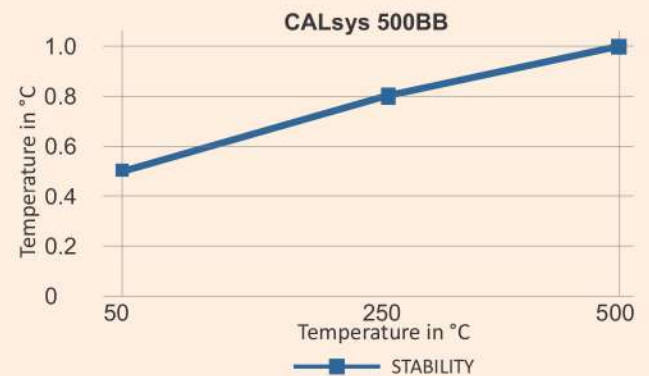
**Dimensions of cabinet** : 270(H) X 360(W) X  
270(D) mm

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

**Weight** : 10Kg (without packing)

## OPTIONAL ACCESSORIES

- Master Pyrometer



## 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