



CALSys  
500 BB

## 50 to 500 °C

## PORTABLE BLACK BODY

### General

CALSys 500 BB 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 Deg C.

The unique feature of this Portable Black Body Furnace is large temperature controlled black body target with a diameter of 60 mm 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.

### KEY FEATURES

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

### Standard Accessories

Reference Standard PRT .....Part No. TPRT-A-300  
Carry Case  
Operational Manual

### Optional Accessories

Software for Automated Calibration.....Part No. AC-24  
Master Pyrometer



### SPECIFICATIONS

Temperature Range : 50 to 500 Deg C  
Temperature resolution : 0.1 Deg C  
Stability : ± 1.0 Deg 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 Deg C  
Power Requirement : 230 VAC, 1.0 KW  
Dimensions : 270 X 220 X 170 mm  
Cavity : Anodized Aluminum Plate Dia - 55mm  
Aperture Dia : 60 mm  
Weight : Approx 7 Kg