

CALSys  
1700 BB

# 500 to 1700 °C

## HIGH TEMPERATURE BLACK BODY FURNACE

### General

CALSys 1700 BB 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 Deg C.

The unique feature of this Portable 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 furnace is set and controlled by a self tuned PID controller with automatic super fine adjustment.

### KEY FEATURES

- ✓ Use of Molybdenum Disilicate Heaters (MoSiO<sub>2</sub>)
- ✓ Wide Operating Range (500 to 1700 Deg C)
- ✓ High Stability
- ✓ PC interfacing
- ✓ Simple to use and cost effective

### Standard Accessories

Operational Manual.....

### Optional Accessories

Master Pyrometer

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

Extra Equalizing Block.....

Black Body Cavity..... Part No. EQ3



### SPECIFICATIONS

Temperature Range : 500 to 1700 Deg C

Temperature resolution : 0.1 Deg C

Stability : ± 2.0 Deg C

Controlling Sensor : Precision PT/RH-PT T/C

Heaters : MoSiO<sub>2</sub>

Method of Control : Digital self tuned PID Controller

Time to reach max Temp : 2 Hr

Computer Interface : RS 232

Operating Temperature : 20 to 45 Deg C

Power Requirement : 230 VAC, 4.0 KW

Dimensions : 640(H) x 400(W) x 550(D) mm

Black Body Cavity Aperture: 29 mm, End closed tube

Weight : 80 Kg