

## CALSYS 110BB

**10 to 110°C**

### PORTABLE BLACK BODY

CALsys 110BB calibration source is a highly stable standard portable black body furnace for calibrating non contact IR thermometer for the temperature range of 10 to 110°C.

The unique feature of this portable black body furnace is large temperature controlled black body target with a size of 80 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

**Temperature Range** : 10 to 110°C

**Temperature Resolution** : 0.1°C

**Stability** : ±0.05°C at 10°C  
±0.07°C at 60°C  
±0.1°C at 110°C

**Controlling Sensor** : Precision PRT

**Method of Control** : Digital self tuned  
PID Controller

**Emissivity** : 0.95 ±0.01

**Time to Reach Max Temp**: 25 Mins

**Computer Interface** : RS - 232

**Operating Temperature** : 20 to 25°C

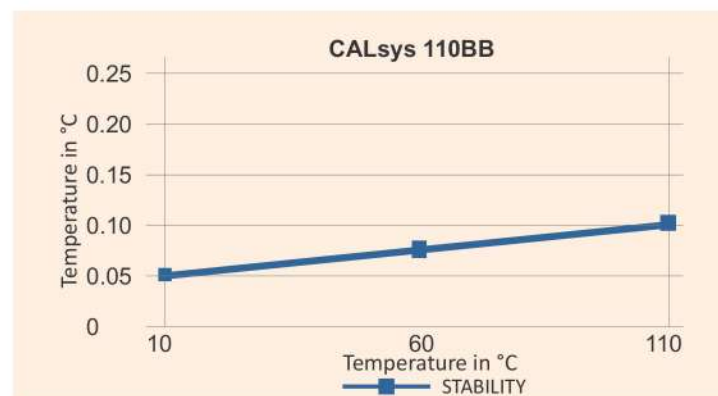
**Power Requirement** : 230 VAC, 0.5 KW

**Dimensions of cabinet** : 330(H) X 355(W) X  
225(D) mm

**Cavity** : High Emissive  
Painted Aluminum  
Plate

**Aperture** : 80 mm dia

**Weight** : 12Kg (without  
packing )



### KEY FEATURES

- ✓ Large Aperture Area
- ✓ Below Ambient Operating Range (10 to 110°C)
- ✓ High Stability
- ✓ PC interfacing
- ✓ Simple to use and cost effective
- ✓ Portability

### STANDARD ACCESSORIES

- Carry Case
- Operational Manual

### OPTIONAL ACCESSORIES

- Master Pyrometer