

CALSYS 1700BB

500 to 1700°C

HIGH STABILITY BLACK BODY FURNACE

CALsys 1700BB 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°C.

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

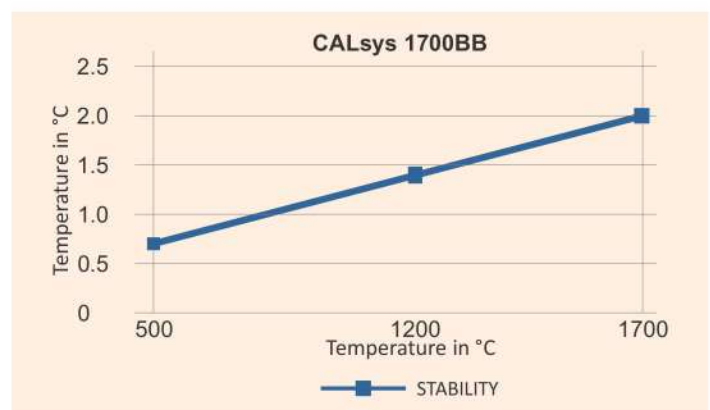


SPECIFICATIONS

Temperature Range	: 500 to 1700°C
Temperature Resolution	: 1°C
Stability	: ±0.7°C at 500°C ±1.4°C at 1200°C ±2.0°C at 1700°C
Controlling Sensor	: Precision PT/RH-PT T/C
Heaters	: MoSiO ₂
Method of Controlling	: Digital self tuned PID Controller
Time to Reach Max Temp	: 3 Hrs
Computer Interface	: RS - 232
Operating Temperature	: 20 to 45°C
Power Requirement	: 230 VAC, 3 KW
Dimensions of cabinet	: 640(H) x 500(W) x 550(D) mm
Black Body Cavity Aperture:	29 mm, End closed tube
Weight	: 80Kg (without packing)

OPTIONAL ACCESSORIES

- Master Pyrometer
- Black Body Cavity..... Part No. Eq3



KEY FEATURES

- ✓ Use of Molybdenum Disilicide Heaters (MoSiO₂)
- ✓ Wide Operating Range (500 to 1700°C)
- ✓ High Stability
- ✓ PC interfacing
- ✓ Simple to use and cost effective

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