TEMPSENS

High Temperature Black Body Furnace

500°C to 1700°C

Wide Temperature Range

CALsys 1700BB offer a wide temperature range from 500 °C to 1700 °C

Simple to use

The CALsys 1700BB block is ideal for Industrial/ Laboratory field use.

Speed

The CALsys 1700BB extremely quick to reach various temperatures.

Accuracy and performance

The CALsys 1700BB provides excellent calibration accuracy with stability ±1.5°C at 1700 °C.

Computer Interface

The communication port (RS-232/USB) enables communication with selected CALsys 1700BB calibrator.

CALsys 1700BB⌗

Temperature Calibrator

CALsys 1700BB offers easy to use blackbody calibrator with high temperature range from 500 to 1700°C. It is a highly stable standard furnace for calibrating pyrometer and non contact sensor. This calibrator can be used on site for high temperature calibration and also find application in pyrometer industry, non contact sensor calibration.. The unique feature of this black body furnace is large temperature control black body target of 29mm diameter. The temperature of the calibrator is set and controlled by a self tuned PID controller with automatic super fine adjustment. Our newly designed CALsys 1700BB model offers better esthetic design and performance wise upgraded to next level.

CALsys 1700 BB

Temperature range	500 °C to 1700 °C
Stability	±0.5°C at 500°C
	±1.0°C at 1000°C
	±1.5°C at 1700°C
Controlling sensor	B type duplex(PT/RH-PT)
Cavity type	ceramic
Cavity dimension	29mm End closed tube
Emissivity	0.97 (±0.02)
Heater	MoSi
Heating time	3 Hrs
Stablization time	15 to 20mins
Method of control	Digital self tuned PID Controller
Resolution	1 °C
Display	LCD, °C or F user-selectable
Size (H x W x D)	700(H) x 500(W) x 550(D) mm
Weight	75Kg
Power requirements	230 VAC or 110 VAC 50/60Hz 4 kW (50Hz)
Computer interface	RS - 232/USB
Calibration	Accredited calibration certificate provided (Optional)
Environmental operating conditions	0 °C to 40 °C

ACCESSORIES

- **Blackbody Cavity for CALsys 1700BB model**

  We use 29mm dia End closed tube (Radiation cavity type) in CALsys 1700BB.

- **Master Pyrometer (Optional)**

- **Black Body Cavity**

- **Calsoft Software**

- **Operational Manual**

- **NABL accredited calibration certificate (Optional)**

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