

Extended area black body is defined by the large emitting surface area precise temperature control with good uniformity. Tempsens make Blackbodies are state of the art, highly accurate and stable with different standard sizes and temperature ranges. The LBBCH Series Extended Area blackbodies are low temperature infrared reference sources operating either in absolute or differential mode.

This Blackbody series featuring the very high stability, they are particularly well adapted for the characterization and performance validation of a very wide range of IR Sensors, such as high resolution cameras for Thermography and long range thermal imagers. Essentially the black body emits a known amount of energy for an infinite number of wavelengths. This enables to draw the expected black body radiation curve for a given temperature. Temperature is accurately controlled by High accurate PID self tuning controller.



Features

- ✓ Independent Controller with Real time display and Calibration data.
- ✓ Quick and convenient calibration technique.
- ✓ Extended areas up to 300 mm x 300 mm.
- ✓ Differential and Absolute modes of operation.
- ✓ High thermal uniformity and emissivity.
- ✓ Portable controller.
- ✓ Serial communication and computer interfacing by RS232 Port.
- ✓ Absolute temperature Range 0 Deg C to 100 Deg C.

Parameter	LBB11CH	LBB22CH	LBB33CH
Emissive area	100 x 100 mm	200 x 200 mm	300 x 300 mm
Temperature range	0 to 100°C		
Thermal uniformity (1)	1% (T-T _{amb})		
Emissivity	0.98±(0.02)	0.98±(0.02)	0.98±(0.02)
Stability	0.01°C		
Temperature measurement Accuracy	0.2°C		
Display resolution	0.01		
Remote control Ethernet	RS232		
Power supply	1 Ph 230VAC		
Operating ambient temperature	0 to 30°C		
Max. power consumption	1Kw@230VAC	3Kw@230VAC	6Kw@230VAC
Head dimensions W x H x D (mm)	300 x 320 x 190 mm	550 x 550 x 260 mm	550 x 550 x 260 mm
Head weight	15 Kg	25 Kg	35 Kg
Electronic unit weight	2 Kg	5 Kg	5 Kg

Tempsens Instruments (I) Pvt. Ltd.

A-190, Road No. 5, M.I.A., Udaipur-313003 (Rajasthan) INDIA

Ph. : +91-294-3052900, Fax : +91294-3052950

Email : info@tempsens.com

www.tempsens.com