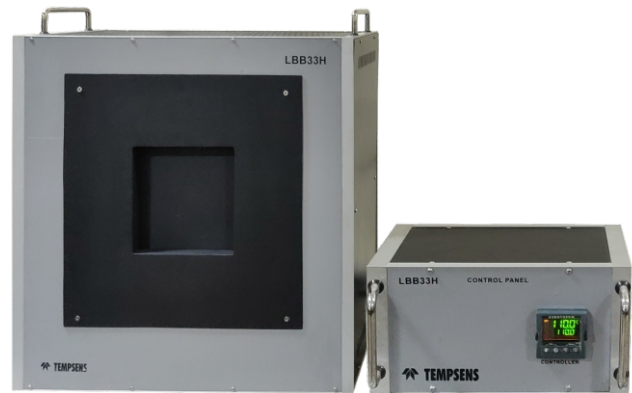


Extended area Black body is defined by the large emitting surface area precise temperature control with good uniformity. The blackbody is designed to provide infrared radiation as an ideal blackbody emitter. Because of the large uniform surface area the body called extended area black body. These data ensure high accuracy for the calibration of thermal imagers over their full field of view, the non-uniformity correction of infrared cameras, the simultaneous test of several sensors during manufacturing process the measurement of the size of source effect on cameras. We separately provide high accurate programmable controller with black body source. High accuracy chamber have designed separately. The temperature of furnace is set or changes by the controller.



KEY FEATURES

- ✓ Temperature range from ambient to +500 °C
- ✓ Exceptionally high emissivity of 0.98 ± 0.02
- ✓ Large emissive area with high uniformity
- ✓ Remote control via Ethernet link, RS232
- ✓ Very High Stability and accuracy
- ✓ Real time display of surface and set point temperature

Parameter	LBB11H	LBB22H	LBB33H
Emissive area	100 x 100 mm ²	200 x 200 mm ²	300 x 300 mm ²
Temperature range	50 to 500°C		
Emissive area uniformity (1)	±2 at 400 °C	±3 at 400 °C	±4 at 400 °C
Emissivity	0.98±0.02	0.98±0.02	0.98±0.02
Stability	±0.1°C		
Temperature measurement Accuracy	±0.5°C		
Display resolution	0.1°C		
Warm-up time from ambient to T_{max}	30 min	45 min	60 min
Head dimensions W x H x D (mm³)	300 x 320 x 190 mm	550 x 550 x 260 mm	550 x 550 x 260 mm
Head weight	20 kg	25 kg	30 kg
Max. power consumption	2000 W	3000 W	5000 W
Power supply	230 VAC, 1 ph. 50 Hz	230 VAC, 1 ph. 50 Hz	230 VAC, 1 ph. 50 Hz
Remote control	Ethernet, RS-232	Ethernet, RS-232	Ethernet, RS-232
Operating temperature range (head)	-10°C to +50°C	-10°C to +50°C	-10°C to +50°C

Tempsens Instruments (I) Pvt. Ltd.

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

Ph. : +91-294-3052960, Fax : +91-294-3052950

Email : info@tempsens.com