

## Extended Area Black Body

50°C to 500°C

### Wide Temperature Range

LBB55H offer a wide temperature range from 50°C to 500 °C

### Large emissive area

LBB55H has the large emitting surface area of 500x500mm with precise temperature control with good uniformity.

### High Emissivity

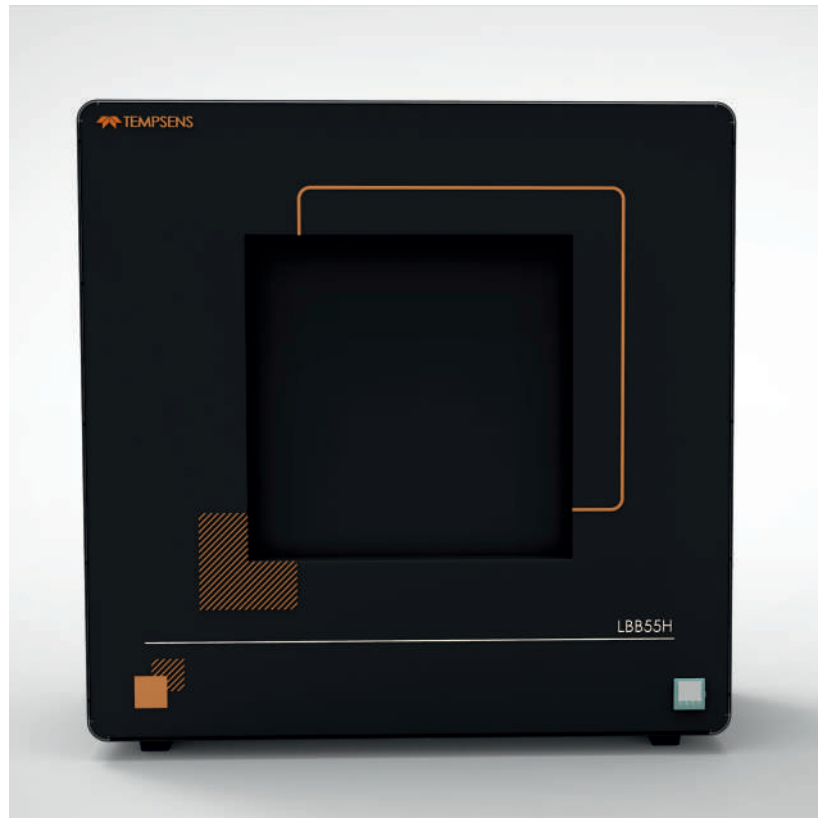
The LBB55H Exceptionally high emissivity of  $0.95 \pm 0.02$ , extremely quick to reach various temperatures, i.e. heats up from room temp to +500 °C in 120 minutes.

### Accuracy and performance

The LBB55H is high stable unit that also provides excellent calibration accuracy with stability  $\pm 0.1^\circ\text{C}$  at 500°C.

## LBB55H

High Temperature Extended Area Black Body



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. 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.

## SPECIFICATIONS

Parameter	LBB55H
Emissive area	500x500 mm
Temperature range	50 to 500°C
Emissive area uniformity (1)	±8 at 400°C
Emissivity	0.95±0.02
Stability	±0.1°C
Method of control	Digital self tuned PID Controller
Display resolution	0.1°C
Warm-up time from ambient to T <sub>max</sub>	120 min
Head dimensions H x W x D (mm <sup>3</sup> )	1000 X 1014 X 550 mm
Head weight	160 kg
Power supply	Three Phase, 50/60 Hz 12 kW
Operating temperature range (head)	15°C to 30°C

\*1 at 80% of emissive area

## ACCESSORIES

- Master Pyrometer (Optional)
- Operational Manual
- Carry Case (Only for LBB11H Model)
- NABL accredited calibration certificate (Optional)

