



SBB Single / DBB Dual Black Body Infrared Calibrators

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SBB Single Black Body Infrared Calibrators

Single Black Body Infrared (IR) Calibrators are designed for easy and reliable testing of almost any in-line or handheld infrared pyrometer. These IR calibrators provide extremely uniform Black Body targets with a high emissivity of 0.986. Perfect for applications requiring only one temperature range, calibrators in the SBB line are compact enough to use in the field or for permanent placement in the lab. Available in 110 VAC and 220 VAC versions, with European cord sets as required.

EDL's Single Black Body Infrared Calibrators are available in three temperature ranges - low (-30 to 110 °C), mid (Ambient to 350 °C), and high (Ambient to 650 °C). The advanced engineering of the Black Body features a large 2" diameter target area with a built-in temperature controller that delivers high accuracy, high reliability and an advanced program that allows user control over the features of the controller.

Model	Temperature Range
SBB-1	-30° to 110° C (Low Range)
SBB-2	Ambient to 350° C (Mid-Range)
SBB-3	Ambient to 650° C (High Range)



DBB Dual Black Body Infrared Calibrators

EDL's Dual Black Body calibrators make infrared (IR) calibration faster and easier than ever before! You don't have to be an engineer to operate these units – EDL's calibrators are simple to set and control.

The Dual Zone Black Body Calibrators (DBB) were designed for calibrating infrared pyrometers with multiple temperature ranges. With a large 2" diameter target area and high accuracy temperature controller – EDL's IR calibrators offer better accuracy and stability over other IR calibrators available on the market. The emissivity of the isothermal target is machined and coated to give a high emissivity of 0.986, and the target temperature can be controlled in set-point increments of 0.1°. Fast heating and cooling times make these calibrators very efficient in the lab.

Model	Temperature Range
DBB-350	Low Range: -20° to 135° C High Range: 20° to 350° C
DBB-650	Low Range: -20° to 135° C High Range: 20° to 650° C



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SBB Single / DBB Dual Black Body Infrared Calibrators

- High stability
- Fast heat-up
- Simple operation
- RS-232 interface with software
- Adjustable bail handle
- Includes removable RTD reference sensor & high temperature thermocouple
- NIST Traceable Calibration report included
- Protection for RTD inputs
- Hot or cold calibration surfaces
- 0.1° Resolution
- Rugged & lightweight
- Technical support, repairs & calibrations done in-house
- 12-month warranty

Food Industries
Rubber & Plastics
Calibration Labs
Pharmaceutical
Racing Teams
& Many More!

These handy infrared calibrators are a breeze to use. Merely set the desired Black Body temperature from the convenient front panel control buttons, wait a few minutes to ensure stability, aim the gun at the target and shoot. The radiated energy from the Black Body is measured by your IR thermometer. Merely compare its reading to the display on the DBB and record the difference.



	SBB-1	SBB-2	SBB-3	DBB-350	DBB-650
Black Body Diameter	2" (50.8 mm)	2" (50.8 mm)	2" (50.8 mm)	2" (50.8 mm)	2" (50.8 mm)
Stability	±0.05 °C	±0.05 °C	±0.05 °C	±0.05 °C	±0.05 °C
Emissivity	0.98 ±0.02 °C	0.98 ±0.02 °C	0.98 ±0.02 °C	0.98 ±0.02 °C	0.98 ±0.02 °C
Height	41 cm (16.25")	41 cm (16.25")	41 cm (16.25")	41 cm (16.25")	41 cm (16.25")
Width	35 cm (13.375")	35 cm (13.375")	35 cm (13.375")	35 cm (13.375")	35 cm (13.375")
Weight	9kg (~20 lbs.)	9kg (~20 lbs.)	9kg (~20 lbs.)	9kg (~20 lbs.)	9kg (~20 lbs.)
Accuracy	±0.5 °C	±0.5 °C	±0.5 °C	±0.5 °C	±0.5 °C
Interface	RS-232	RS-232	RS-232	RS-232	RS-232
Power	110V, 4 amps 50/60HZ	110V, 4 amps 50/60HZ	110V, 4 amps 50/60HZ	110V, 4 amps 50/60HZ	110V, 4 amps 50/60HZ
	220V, 2 amps 50/60HZ	220V, 2 amps 50/60HZ	220V, 2 amps 50/60HZ	220V, 2 amps 50/60HZ	220V, 2 amps 50/60HZ
Temperature Range	Low Range *-30 °C to 110 °C	Mid Range Ambient to 350 °C	High Range Ambient to 650 °C	Low: -20° to 135° C High: 20° to 350° C	Low: -20° to 135° C High: 20° to 650° C
Heat Up	22 °C / min.	22 °C / min.	22 °C / min.	22 °C / min.	22 °C / min.
Cool Down	8 °C / min.	8 °C / min.	8 °C / min.	8 °C / min.	8 °C / min.

* ± 2 °C depending on environment

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