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MODEL BX-500



This portable infrared temperature calibrator is as easy to use as point and shoot.

- For calibrating non-contact infrared thermometers up to 500°C (932°F)
- Temperature controlled black-body target with a diameter of 2.25" (57mm)

- Wide field of view to compensate for optical variations in individual infrared thermometers
- Fixed emissivity of 0.95
- Simply set the desired temperature in increments of 0.1°, wait for the calibrator to attain equilibrium, point the infrared thermometer at the target, and measure the radiated energy
- Contact RTD reference well is located directly behind the blackbody target to assure even higher accuracies of $\pm 0.1^\circ\text{C}$

Temperature Range: 50 to 500°C (122 to 932°F)

Resolution: 0.1°C (0.1°F)

Accuracy: $\pm 0.8^\circ\text{C}$ ($\pm 1.6^\circ\text{F}$): $\leq 100^\circ\text{C}$ (212°F); $\pm 1.6^\circ\text{C}$ ($\pm 3.2^\circ\text{F}$):

100 to $\leq 200^\circ\text{C}$ (212 to 392°F); $\pm 2.8^\circ\text{C}$ ($\pm 5.6^\circ\text{F}$): 200 to $\leq 500^\circ\text{C}$ (392 to $\leq 932^\circ\text{F}$)

Stability: $\pm 0.1^\circ\text{C}$ ($\pm 0.2^\circ\text{F}$): $\leq 100^\circ\text{C}$ (212°F); $\pm 0.2^\circ\text{C}$ ($\pm 0.4^\circ\text{F}$):

100 to $\leq 350^\circ\text{C}$ (212 to 662°F); $\pm 0.4^\circ\text{C}$ ($\pm 0.8^\circ\text{F}$): 350 to $\leq 500^\circ\text{C}$ (662 to $\leq 932^\circ\text{F}$)

Target Emissivity: Fixed at 0.95

Cooling Time: 45 minutes to 100°C (122°F)

Heating Time: 40 minutes to maximum

Aperture Diameter: 57mm

Power Supply: 220VAC ($\pm 10\%$), 1.25A/110VAC ($\pm 10\%$), 2.5A

Dimensions: 180 x 114 x 233mm

Weight: 3 kg

BX-500 Infrared Temperature Calibrator