

HTCB Blackbodies

High Temperature Cavity Blackbodies



Fig. 1. Photo of the HTCB-25D-1200 blackbody

BASIC INFORMATION:

The HTCB Series blackbodies are high temperature, cavity blackbodies of temperature range up to 1400 °C. They can be used for calibration of non-contact thermometers or as a module in test stations for testing thermal imaging systems. In contrast to most commercially available high temperature blackbodies they can be controlled directly from PC using standard RS 232 port (USB port – option).

SPECIFICATIONS

	HTCB-25D-1000	HTCB-25D-1200	HTCB-25D-1300	HTCB-25D-1400
Aperture	25 mm	25 mm	25 mm	25 mm
Temperature range	100-1050°C	100-1200°C	300-1300°C	400-1400°C
Temperature resolution	0.1°C	0.1°C – for <1000°C 1°C for >1000°C	0.1°C – for <1000°C 1°C for >1000°C	0.1°C – for <1000°C 1°C for >1000°C
Temperature* stability	0.5 °C (short-term) 0.8 °C (long term)	1 °C (short-term) 1.5°C (long term)	1.2 °C (short-term) 1.7 °C (long term)	1.5 °C (short-term) 2 °C (long term)
Emissivity	>0.995	>0.995	>0.995	>0.995
Warm up time	<45 min	<60 min	<70 min	<90 min
Computer control (RS 232)	Yes	yes	yes	yes
Power	230V	230V	230V	230V
Mass	23 kg	23 kg	29 kg	32 kg

*Measurement at 800°C

**Modifications of these standard versions are possible. If the standard blackbodies listed above do not fit your needs, please [contact Inframet](#) with your requirements.

*specifications are subject to change without prior notice

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