

HTB Blackbodies

High Temperature Blackbodies



Fig. 1. Photo of the HTB-35D-1200 blackbody

BASIC INFORMATION:

The HTB Series blackbodies are high temperature, cavity blackbodies of temperature range up to 1200°C. The blackbodies are characterized by a relatively large aperture of 35 mm of the emitting cavity. Blackbody emitters are built using a concept of cavity of closed end cylinder. The blackbodies offer high emissivity in ultra wide spectral band from 0.4 μm to over 30 μm . This wide spectral band makes possible to use HTB blackbodies as standard radiation sources in both in range from visible band to LWIR band. The HTB blackbodies can be controlled directly from internal keyboard or remotely from PC using standard USB port.

SPECIFICATIONS

	HTB-35D-1000	HTB-35D-1200
Emitting aperture	35 mm	35 mm
Emissivity	>0.995	>0.995
Temperature range	100-1050°C	100-1200°C
Temperature resolution	0.1°C	0.1°C – for <1000°C 1°C for >1000°C
Temperature uncertainty	0.25% or 1°C	0.25% or 1°C
Temperature stability*	0.5 °C (short-term) 0.8 °C (long term)	1 °C (short-term) 1.5°C (long term)
Temperature uniformity (at 800°C for $\Phi=25\text{mm}$)	$\pm 1.3^\circ\text{C}$	$\pm 1.4^\circ\text{C}$
Warm up time	<50 min	<80 min
Computer control	USB	USB
Power	230V (110V option)	230V (110V option)
Mass	23 kg	23 kg
Dimensions	403x712x292mm	403x712x292mm

*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

Version 3.6

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