Data Sheet

MERGENTHALER

ultimate laser processing

BBCS-20-1000

Black Body Calibration System

Temperature Controller BBTC

Easy to use

Flexible on site calibration of IR pyrometers

100°C to 1000°C

212°F to 1832°F

High Temperature

Heat Source BBHS

Very small size of the heat source

140mm x 140mm x 142mm

applicable in all postitions

Typical Applications

Onsite calibration of infrared pyrometers

Features

Portabel and compact

Highly flexible in use

Fast heating and stabilization rate

1000°C ≤ 18 minutes

Air cooled

Small built radiation source BBHS-20-1000

Easy to use in confined spaces

Precise temperature control

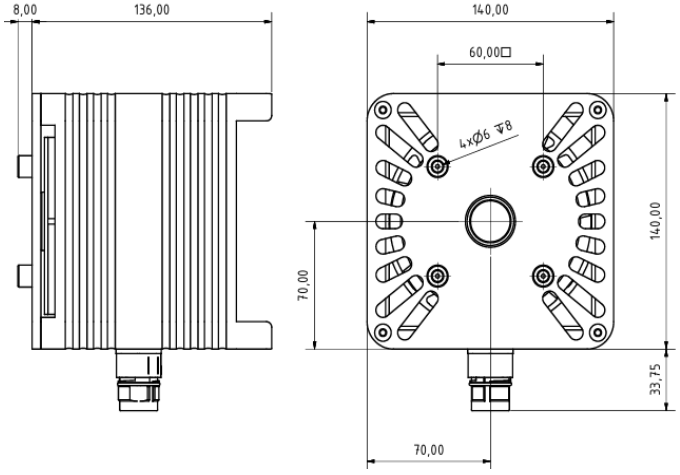
High accuracy

Technical Data

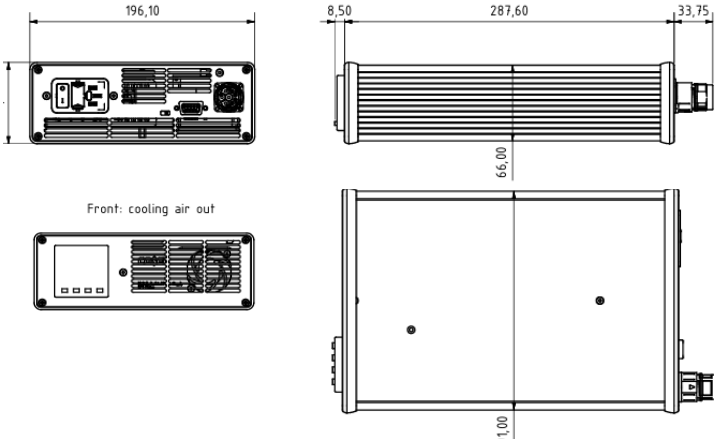
	BBCS-20-1000 (Black Body Temperature Calibration System)
Temperature range:	100°C - 1000°C (212°F - 2012°F)
Spectral range:	0.7µm - 2.8µm
Emissivity:	0.99
Accuracy:	+/- 2K + 0.3% off reading
Stability:	+/- 0.4K after 3 min stabilization
Temperature Resolution:	0.1°C
Controller:	PID Controller, Thermocouple Typ S
Heated Area:	Opening diameter: 20mm
Heating Time:	18 min: 20°C to 1000°C ; cooling time: 45min 1000°C to 60°C
Ambient temperature:	Working: 5°C to 45°C; non condensation; storage: -10°C to 60°C non condensation
Dimensions approx: (LxBxH)	Heat source: 140mm x 140mm x 142mm; Temperature controller: 300mm x 200mmx 70mm
Weight:	Heat source 2.7kg; Temperature controller: 3.0kg
Power supply:	100V - 240VAC; 50-60Hz; max.: 500VA
Connections:	Serial RS485 for programmable Controller
CE label:	According to EU directives for electromagnetic immunity
Conformity:	The RoHS Directive 2011/65/EU of 2011-06-08 with supplement from 2015-03-31 is fulfilled

Dimensions

BBHS Black Body Heat Source



BBTC Black Body Temperature Controller



You are solely responsible for selecting the appropriate product for your application, validating and testing your application, and ensuring your application meets applicable standards, and any other safety, security, or other requirements.
Data are subject to be changed without notice.

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