

SR-2

High Temperature Cavity Blackbody

The SR-2 is a highly reliable, durable Cavity Blackbody with a temperature range of up to 1200°C.

The SR-2 is controlled from the controller unit's front panel.

FEATURES:

- ▶ High emissivity
- ▶ NIST-traceable calibration
- ▶ Long-term temperature stability
- ▶ Manual apertures wheel included
- ▶ Compact, lightweight blackbody and controller unit



SR-2 Blackbody System Head and Controller

SPECIFICATIONS

Model:	SR-2-32	SR-2-33 <i>see note (2)</i>
Aperture Diameter, inches	1	1
Temperature Range, °C	100 - 1000	100 - 1200
Set Point & Readout Resolution, °C	1	1
Temperature Accuracy, °C	± 2.5 @ T<1000 °C	± 2.5 @ T<1000 °C ± 3.0 @ T>1000 °C
Temperature Stability, °C	± 0.50	
Emissivity	0.99 ± 0.01	
Aperture Wheel Standard Aperture Diameters, mm (3)	0.8, 1.6, 3.2, 6.4, 9.5, 12.7, 15.9, 22.2 mm	
Communication Ports	RS232	
Power Consumption (maximum), W	1000	
Operating Voltage, VAC	220 or 110 (50/60 Hz)	
Size, Blackbody Head (Height x Width x Depth), cm (4)	22x20x33	
Weight, Blackbody Head, kg (4)	7	
Size, Controller (Height x Width x Depth), cm (4)	28x9x9	
Weight, Controller, kg (4)	3	
Operating Temperature, °C	0 to 50	

Notes:

- 1) All values are valid at an ambient temperature of 25°C, and in a non-condensing environment.
- 2) The SR-2-33-220V model includes a transformer.
- 3) Customized apertures available upon request.
- 4) All mechanical sizes are approximate. Please contact CI Systems for an ICD drawing with the accurate sizes.

ORDERING INFORMATION

Model: SR-2 - -

- 1) Model (32 / 33)
- 2) Operating Voltage (110 / 220)

Examples:

SR-2-32 - 110v
SR-2-33 - 220v