

SR-200N

High Temperature Cavity Blackbody

The SR-200N is a reliable, durable Cavity Blackbody with a temperature range of up to 1200°C and rapid warm-up and cooling.

The Blackbody operates using the SR-200N Controller's touch keys located on its front panel. The system can also be controlled from a computer.



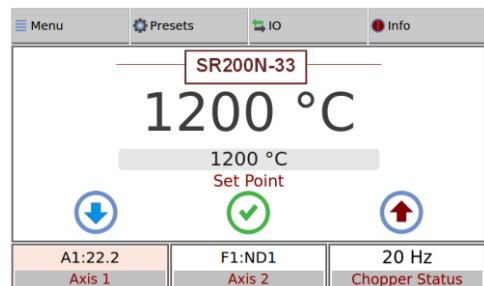
SR-200N Blackbody System Head and Controller

The SR-200N Blackbody's unique Controller enables the addition of one or more optional motorized modules such as: Motorized Aperture Wheel, Motorized Filter Wheel and Motorized Optical Chopper.

Our factory-supplied replacement sensors provide an efficient means for recalibrating the system. The result is accurate, stable, reliable and NIST-traceable. Alternatively, customers may recalibrate the blackbody with our optional CK-20 calibration kit.

FEATURES

- ▶ High emissivity
- ▶ Fast warm-up and cool-down
- ▶ Long term temperature stability
- ▶ Manual aperture wheel included
- ▶ NIST-traceable calibration
- ▶ Computerized and fully Automatic Calibration
- ▶ Quick calibration procedure by replacing the removable sensor
- ▶ Interchangeability between head and controller
- ▶ Large color LCD display with touch screen user interface
- ▶ Remote control software included
- ▶ Compact, portable controller
- ▶ 19" rack mount kit included
- ▶ Communication ports: Ethernet and RS-232 (optional GPIB)



SR-200N Blackbody Controller's Intuitive touch screens



Configuration option:
SR-200N Blackbody Head with Motorized Aperture Wheel and Filter Wheel

Configuration option:
SR-200N Blackbody Head with Motorized Aperture Wheel, Filter Wheel and Chopper

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» OPTIONS

- ▶ RAD: Motorized aperture wheel with standard aperture sizes (3)
- ▶ MF: Manual filter wheel
- ▶ RFD: Motorized filter wheel
- ▶ Chopper (Variable Frequency Radiation Modulator), Motorized
- ▶ Customized Apertures
- ▶ Optional Communication Port: GPIB

» SPECIFICATIONS

Model:	SR-200N-32	SR-200N-33 <i>see note (2)</i>
Aperture Diameter, inches	1	1
Temperature Range, °C	50 - 1000	50 - 1200
Set Point & Readout Resolution, °C	1	
Temperature Accuracy, °C	± 2	
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	Ethernet, RS232 (GPIB optional)	
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)	15x34x35	
Weight, Controller, kg (4)	10	
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-200N-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-200N - - -

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

Examples:

SR-200N-32 - 110v - MF - GPIB
SR-200N-33 - 220v - Chopper - RFD



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