

» SR-200N

High-Temperature Cavity Blackbody

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

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

The SR-200N Blackbody's Controller supports the addition of one or more optional motorized modules such as:

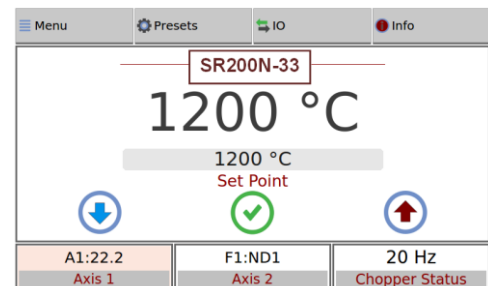
- Motorized Aperture Wheel
- Motorized Filter Wheel
- Motorized Optical Chopper.



SR-200N Blackbody System Head and Controller

» 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
- ▶ Head and controller interchangeable
- ▶ Large color LCD display with touchscreen user interface
- ▶ Remote control software included
- ▶ Compact, portable controller
- ▶ 19" rack-mount kit included for the controller
- ▶ 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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High-Temperature Cavity Blackbody

» OPTIONS

- ▶ RAD: Motorized Aperture Wheel with standard aperture sizes (3)
- ▶ MF: Manual Filter Wheel
- ▶ RFD: Motorized Filter Wheel
- ▶ Chopper (Variable Frequency Radiation Modulator), Motorized
- ▶ Custom-Sized Apertures
- ▶ Optional Communication Port: GPIB

» SPECIFICATIONS

	SR-200N-32	SR-200N-33 (2)
Aperture Diameter	1"	1"
Temperature Range	50 – 1000 °C	50 – 1200 °C
Set Point & Readout Resolution	1 °C	
Temperature Accuracy	± 2 °C	
Temperature Stability	± 0.50 °C	
Emissivity	0.99 ± 0.01	
Aperture Wheel, Standard Diameters (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)	1000 W	
Operating Voltage	220 VAC or 110 VAC (50/60 Hz)	
Size, Blackbody Head (Height x Width x Depth) (4)	21 x 19 x 34 cm	
Weight, Blackbody Head (4)	7 kg	
Size, Controller (Height x Width x Depth) (4)	15 x 34 x 35 cm	
Weight, Controller (4)	10 kg	
Operating Temperature	0 to 50 °C	

Notes:

- 1) All values are valid at an ambient temperature of 25°C, in a non-condensing environment.
- 2) The SR-200N-33-220V model includes a transformer.
- 3) Custom-sized apertures available upon request.
- 4) All mechanical sizes are approximate. Please refer to the [ICD](#) for the exact dimensions.

» 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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