

SR-20

High Temperature Cavity Blackbody



The **SR-20** is a highly reliable, flexible and durable cavity blackbody. The **SR-20**'s unique design permits rapid warm-up and cooling. It's unique controller enables the addition of numerous options. The **SR-20** is operated using the controller's touch keys located on it's front pannel and may also be controlled by a computer, via IEEE-488 bus.

The automatic calibration of the **SR-20** is performed using the CK-20 calibration kit. In order to keep it's accuracy and NIST traceability, it is recomended to recalibrate the **SR-20** yearly.



SR-20

High Temperature Cavity Blackbody

F E A T U R E S

- ▶ High emissivity
- ▶ Long term temperature stability
- ▶ High temperature accuracy
- ▶ Computerized and fully automatic calibration
- ▶ NIST traceable
- ▶ Rapid warm-up and cool-down

O P T I O N S

- ▶ Motorized aperture wheel (RAD)
- ▶ Customized aperture wheel
- ▶ Filter wheel - manual (MF), motorized (RFD)
- ▶ Variable frequency radiation modulator (chopper)

S P E C I F I C A T I O N S

	SR-20-32	SR-20-33	SR-40
Aperture	1"	1"	1"
Temperature range	50-1000°C	50-1200°C	50°-500°C
Temperature accuracy	±2.5°C	±3°C	±0.5°C
Temperature stability	Short term: ±0.1°C, long term: ±0.25°C		±0.1°C
Cavity uniformity	±4°C @ 800°C		±0.3°C @ 300°C
Emissivity	0.99±0.01		0.999±0.001
Power consumption	1000W max		300W
Aperture wheel	0.8, 1.6, 3.2, 6.4, 9.5, 12.7, 15.9, 22.2 mm dia. apertures		
Set point resolution	1°C (0.1°C optional)		
Computer control	IEEE-488 (GPIB), RS232 optional		
Power supply	230/115 VAC, 50/60 Hz		
Weight:	Head: 3Kg, Controller: 15Kg		
Dimensions	Head: 195 x 329 x 214mm, Controller: 440 x 430 x 133mm		
Operating ambient temp.	Head: -20° to 60°C, Controller: 0° to 50°C		



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