

SR-20

High Temperature Cavity Blackbody



SR-2

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The **SR2** is a highly reliable, flexible and durable cavity blackbody. The **SR2's** uses a compact and lightweight controller for applications where communication with the blackbody is not required.
The SR2 is operated using the controller's 'front pannel

The automatic calibration of the **SR-2** 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-2** yearly.

FEATURES :

- ▶ High emissivity
- ▶ High temperature accuracy
- ▶ NIST traceable
- ▶ Long term temperature stability
- ▶ Rapid warm-up and cool-down.
Compact and lightweight

OPTIONS :

- ▶ Manual filter wheel (RFD)
- ▶ Variable frequency modulator
- ▶ Customized aperture wheel
- ▶ 50% faster warm-up / 500% faster cooling

SPECIFICATIONS :

| Model No. | SR-2-32 | SR-2-33 |
|-------------------------|---|------------|
| ▶ Aperture | 1" | 1" |
| ▶ Temperature range | 100-1000°C | 100-1200°C |
| ▶ Temperature accuracy | ±2.5°C | ±3°C |
| ▶ Temperature stability | Short term: ±0.1°C, long term: ±0.25°C | |
| ▶ Cavity uniformity | ±4°C @ 800 | |
| ▶ Emissivity | 0.99±0.01 | |
| ▶ Power consumption | 1000W max | |
| ▶ 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 | Non | |
| ▶ Power supply | 230/115 VAC, 50/60 Hz | |
| ▶ Weight: | Head: 3Kg, Controller: 3.5Kg | |
| ▶ Dimensions | Head: 195x329x214mm, Controller: 92x92x280mm | |
| ▶ Operating ambient | Head: -20° to 60°, Controller: 0° to 50° | |



POLYTEC GmbH

Büro Berlin Schwarzschildstraße 1 D - 12489 Berlin GERMANY
Tel: +49 (30) 63 92 51 40 Fax: +49 (30) 63 92 51 41



ir-testsysteme@polytec.de
www.polytec.de