

» SR - 800HT

High Temperature Extended Area Blackbody



The SR-800HT is a high temperature, absolute extended area blackbody IR calibration source, which provides excellence in uniformity, stability, and accuracy, as well as high uniformity.

It is an extremely reliable calibration source with the flexibility required for testing a broad range of IR based systems.

The exceptional effective emissivity of the HT blackbody is achieved with radiometric calibration.

» SR-800HT

High Temperature Extended Area Blackbody

» FEATURES

- ▶ High emissivity
- ▶ High uniformity
- ▶ Long term temperature stability
- ▶ Fast response time
- ▶ Radiometric correction mode
- ▶ Computerized and fully automatic calibration
- ▶ Ethernet and RS232 communication ports
- ▶ Large color LCD display
- ▶ Touch screen user interface
- ▶ 19" rack mount kit included
- ▶ Windows CE operating system

» SPECIFICATIONS

Model:	SR800-4AHT	SR800-8A-HT	SR800-12A-HT	SR800-14A-HT	SR800-35A-HT
Aperture, in.	4x4	8x8	12x12	14x14	35x35
Absolute temp. range ⁽¹⁾ , °C	100 to 600	100 to 600	100 to 600	100 to 600	100 to 400
Set point & readout resolution, °C	0.1	0.1	0.1	0.1	0.1
Temperature Accuracy, °C	0.5	0.5	0.5	0.5	0.5
Stability, °C	0.50 @ t < 45 min, 0.25 @ t > 45 min				
Slew Rate (at heating) ² , °C/min	15	15	15	15	15
Settling time ⁽²⁾ , min.	25	25	25	25	25
Emissivity ⁽³⁾	0.97 ±0.03	0.97 ±0.03	0.97 ±0.03	0.97 ±0.03	0.97 ±0.03
Uniformity ⁽²⁾ (4)	0.006 XT	0.006 XT	0.006 XT	0.006 XT	0.006 XT
Head dimensions, mm(Lx Dx H)	220x160x292	365x200x400	490x225x570	550x250x630	1308X1300X280
Head weight ,Kg	7.2	18.4	41.8	58	300
Controller dimensions	342x310x133, 19" rack mountable				
Computer control	Ethernet/RS232/IEEE-488 (GPIB)				
Operating temperature, °C	0 to 50	0 to 50	0 to 50	0 to 50	0 to 50
Power supply (two options)	230VAC/6A OR 120VAC/11A	1 ~ (1Phase) 230VAC/18A OR 3 ~ (3Phase) 120/VAC/19A	3 ~ (3Phase) 230/400VAC/16A OR 3 ~ (3Phase) 120/208VAC/32A	3 ~ (3Phase) 230/400VAC/25A OR 3 ~ (3Phase) 120/208VAC/52A	

Notes:

1. Optional absolute temperature range: 50 °C to 600 °C
2. Measured at temperature above 150 °C
3. With radiometric correction
4. At 80% of aperture

» CERTIFICATIONS

- ▶ NIST-traceable calibration
- ▶ Certified to CE, and FC

» ORDERING INFORMATION

Model:	SR800	- □ A	-HT	- □
		↑ Aperture		↑ Power Supply option