

# BBS 1700

## Blackbody Calibration Source



Process Sensors blackbody calibration source Model BBS 1700 features a high emissivity of +0.99 and a 1" (25mm) aperture.

Delivering a temperature range from 300°C to 1700°C, simply adjust the set point on the precision digital PID controller to any temperature within the specified temperature range.

Upon reaching the user selectable set point temperature, the model BBS 1700 will stabilize and produce a temperature reading to within 0.5°C, assuring high accuracy calibration of non-contact infrared thermometers, thermal imaging camera systems, focal plane array detectors, spectrophotometers, etc.

TECHNICAL DATA	
Model	BBS 1700
Temperature range	300° to 1700°C or 572° to 3092°F
Accuracy*	±0.25% of reading ±1°C
Temperature Resolution	1 degree
Stability	1°C per 8 hour period
Emitter Diameter	25mm (1.0")
Emissivity (effective)	+0.99
Sensor	Precision platinum thermocouple
Method of Control	Digital self-tuning PID controller
Warm-up Time	1 hour from room temperature to 1000°C
Operating Ambient Temperature	0° to 44°C (32° to 110°F)
Cooling	Fan cooled, air inlet on rear panel
Power Requirements	208VAC ±10% 50/60Hz 3.0kw max. (230VAC optional)
Dimensions (WxHxD)	19" x 25" x 21"
Weight	80kg (175 lbs.)
Optional	115/230 VAC, 3 kwatts max.

\*for temperatures above 600°C