

MODEL 550

Temperature Calibration Source

Specifications



MODEL 550	
Maximum Temperature	1500°C/2750°F
Recommended Temperature	500 to 1500°C/950 to 2750°F
Heating Rate	30 min. to 1450°C/2650°F
Stability	<±1K/2°F over 30 minutes at set temperature
Radiation Cavity	
Type	Silicon carbide, 120° cone
Diameter	45mm/1.8in dia x 100mm/4.0in
External Aperture	40mm/1.6in dia
Emissivity	Approx. 0.99 at short wavelengths
Controller	Eurotherm with RS232C serial interface
Power Requirement	110/120V a.c. or 220/240V a.c., 50 to 60Hz
Power Consumption	3.0kVA
Overall Dimensions	500 x 380 x 540mm 19.7 x 15.0 x 21.3in (L x W x H)
Weight	26kg/57.3lb(net)/32kg/70.5lb (gross)
Uncertainty (400 to 1500°C)	±3K/6°F (with traceable certificate)

Model 550 Blackbody Temperature Calibration Source

The Model 550 is a high stability, transportable, blackbody, reference source designed for on-site or laboratory calibration of infrared radiation thermometers up to temperatures of 1500°C/2750°F.

Six silicon carbide elements heat the conical ended cylindrical blackbody cavity to 1450°C/2650°F in approximately 30 minutes. A 3-term controller holds the set temperature to within ±1K/2°F.

The Model 550 can be used as a transfer standard, providing calibration by the comparison method, using optional standard radiation thermometers. Alternatively a traceable calibration certificate can be supplied for the source, as an optional extra, where direct traceability is required.

