

PYROTHERM CS F35 to F150

Infrared calibration source/black body with fixed temperatures

Overview



Description

The calibration sources PYROTHERM CS F35 to F150 are used for the calibration and control of radiation thermometers and infrared cameras. The temperature value is fixed between 35 °C and 150 °C. A robust stainless steel housing enables the use under rough conditions in the industry. The radiation surface has a high emissivity value of 0.98. A precise temperature control guarantees a high accuracy and stability of the calibration source.

Technical data

Type	PYROTHERM CS F35 to F150
Temperature range	35 °C to 100 °C in steps of 5, 100 °C to 150 °C in steps of 10
Aperture diameter	50 mm
Emissivity	0.98 ± 0.005 ¹
Measurement uncertainty	0.7 K
Reproducibility	0.2 K
Control stability	0.1 K
Temperature constancy	0.2 K (for the center area Ø 45 mm, related to the center)
Heat up time	F35: 5 min, F150: 15 min
Operating temperature	0 °C to 30 °C
Storage temperature	–20 °C to 70 °C
Housing	stainless steel, IP54, diameter Ø 64.5 mm, length 81 mm
Weight	0.9 kg
Power supply	24 V DC, max. 1 A

¹ Measured at 2.0 µm to 5.2 µm and 8 µm to 14 µm