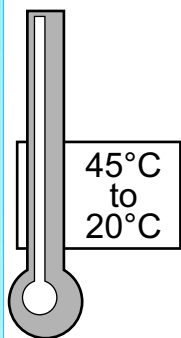


988 Blackbody Source

Preliminary Datasheet



Description

This new blackbody source has been introduced to meet the demand for a simple, cost effective but high accuracy calibrator for the calibration of thermal imagers and infrared thermometers used at temperatures around ambient.

A 70mm diameter ridged plate is heated or cooled with an internal solid state thermoelectric heat pump. The temperature of the plate can be set from 20°C to 45°C to a resolution of 0.01°C.

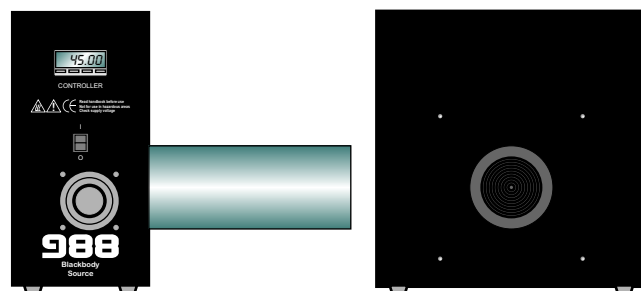
Features

Combined stability / accuracy of $\pm 0.2^\circ\text{C}$ using contact thermometry.

The temperature controller has a resolution of 0.01°C.

Emissivity is better than 0.97 ± 0.02 .

Model No.	988
Temperature Range	20°C to 45°C (70°F to 115°F)
Resolution	$\pm 0.01^\circ\text{C}$
Target Size	70mm diameter
Emissivity	0.97 ± 0.02
Combined Accuracy / Stability	$\pm 0.2^\circ\text{C}$ ($\pm 0.3^\circ\text{F}$)
Power	70W
Voltage	12 V.D.C.
Dimensions	Height 230mm Width 225mm Depth 115mm
Weight	4kg
Accessories	Switch Mode Power Supply Supplied as Standard 100 - 240 V.A.C
How to Order	988



Evaluation at Land Infrared showed the advantages of fitting a stainless steel tube around the plate to give better uniformity and less sensitivity to draughts and ambient temperature effects.