DATASHEET

Model-988

Isotech

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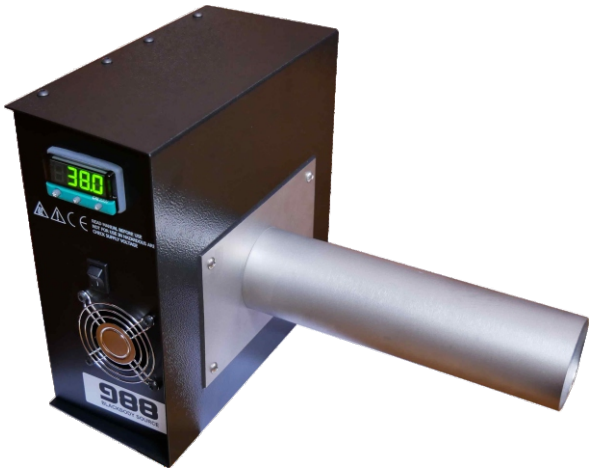
ISOTECH

20 to 45°C

Blackbody Source
Model 988

- Improves Accuracy of Fever Detection Systems
- Covers 20°C to 45°C with Fast Response
- Check Non-Contact Thermometers



First introduced to assist in relation to the SARS outbreak during the early 2000s the Model 988 is now helping in relation to coronavirus. It can be used to increase the accuracy of thermal imagers being used to measure human skin temperature in temperature screening of applications. It can also be used to check non-contact clinical thermometers.

This blackbody source meets the demand for a simple, cost effective but high accuracy device for the calibration of thermal imagers and infrared thermometers that are used at temperatures around that of the human body.

Unlike heat only devices, this model uses a solid state thermoelectric heat pump so that the block can be both cooled and heated. This brings two benefits, the blackbody can maintain temperature in high ambient temperature conditions and it can also operate below the ambient temperature.

Response time is very fast, typically less than five minutes to achieve the required temperature.
(See graphs)

The Model 988 can be used either horizontally or vertically.

The device features a high emissivity ridged plate that is 70 mm diameter. The temperature of the plate can be set from 20°C to 45°C to a resolution of 0.1°C.

To reduce sensitivity to air drafts and ambient temperature effects, a stainless steel tube is fitted in front of the plate with evaluation showing this has advantages over an open plate design. The standard tube length is 210mm and there is an option of a short version, 40mm long that is particularly useful for checking medical thermometers.

For applications where the unit is used at a single fixed temperature, e.g 38°C, the set temperature on the controller can be locked to prevent accidental change or tampering. The operating unit can be switched from Celsius to Fahrenheit.

http://www.isotech.co.uk

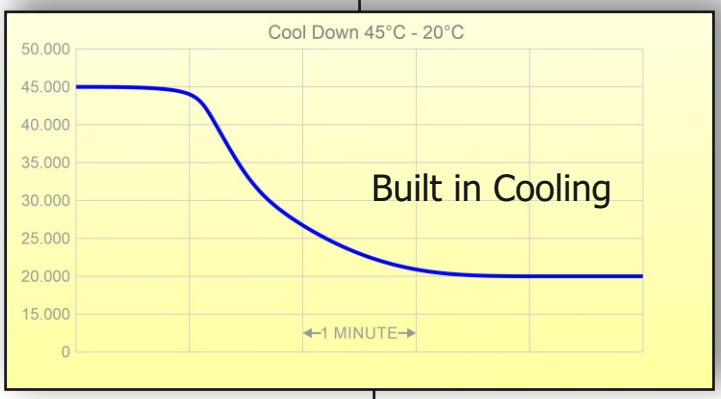
Model	**988**
Temperature Range	20°C to 45°C
Resolution	±0.1°C
Target Size	70mm Diameter
Tube Diameter	54mm Diameter
Emissivity	0.97 ±0.02
Combined Accuracy / Stability	±0.2°C (0.3°F)
Power	60 Watts
Voltage	12 Vdc
Dimensions	H 230mm W 225mm D 115mm Not including tube
Weight	4kg

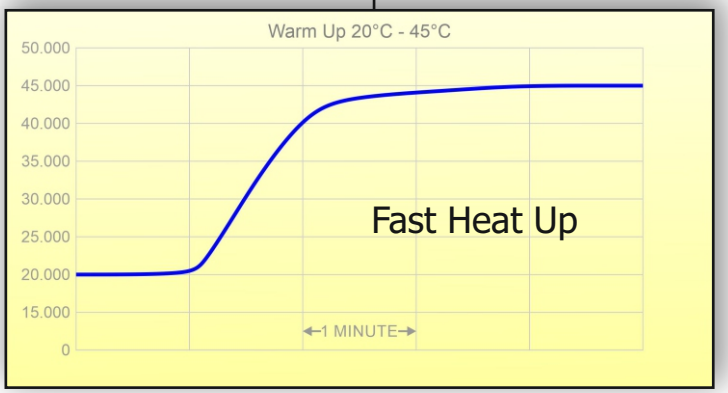
Accessories
Switch Mode Power Supply as Standard
100 - 240 VAC

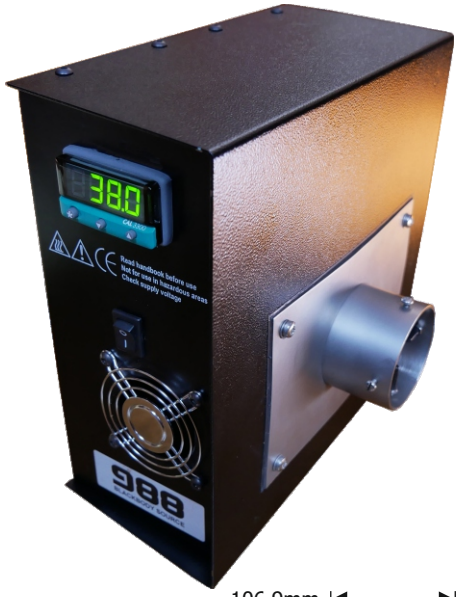
How to Order

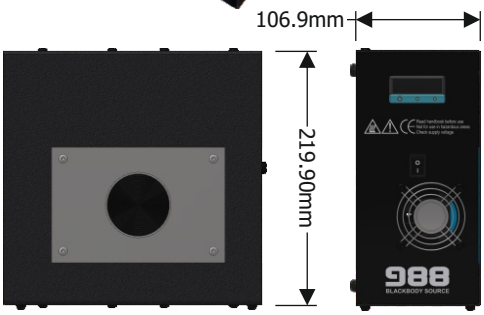
Model 988	with 210mm Tube
Model 988 Short	with 40mm Tube

Fast Heat up & Cool Down

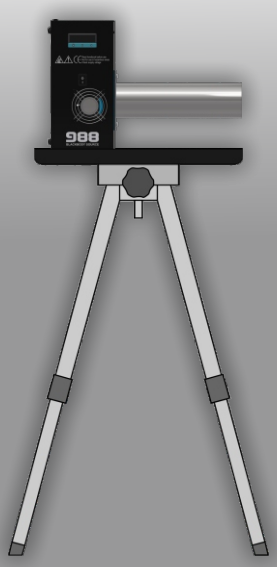








Model 988 Application
Part of an airport fever detection system.



988 can be used horizontally or vertically. It is easily supported. (Stand is not included)

988
Can be used to improve accuracy of thermal imagers.

988 Short
Suitable for Medical Thermometers