

BK 40 M

CRYOSTATIC BATH



Operating range: -40/+125°C

Applications: Control calibration of temperature sensors in laboratory, in conformity with ISO 9000 standards;
Control of thermostats;
Automatic computer-controlled calibrations



GIUSSANI

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The BK40 M temperature calibrator is an instrument used to calibrate transducers, RTD and temperature-measuring sensors in the laboratory. The possibility to generate positive and negative temperature ramps makes it suitable for use in calibrating and testing thermostats.

TECHNICAL CHARACTERISTICS

The BK40 M bath consists of a stainless tank with capacity of 10 litres, useful height 340 mm and diameter 85 mm. The bath is equipped with a stainless steel mixer with electrical motor power, a safety thermostat, drain cock and overflow drain pipe.

The electronic micro-processor unit which regulates the temperature of the BK40 M allows the apparatus to operate at an optimum accuracy of $\pm 0.2^\circ\text{C}$ @ 120°C

The instrument can generate increases and decreases of temperature with pre-settable gradients which make it possible to control thermostats accurately. The special socket with which the instrument is fitted is used to connect up the test thermostat and to record the threshold temperature of the thermostat. The BK40 M bath, together with a standard RTD 100 which can be connected up to the auxiliary input, constitute a complete calibration system traceable by S.I.T. centres, in conformity with ISO 9000 standards.

The serial interface for control by PC makes it possible to use personalised calibration programs.

The BK40 M with the software AQ2sp for Windows can carry out:

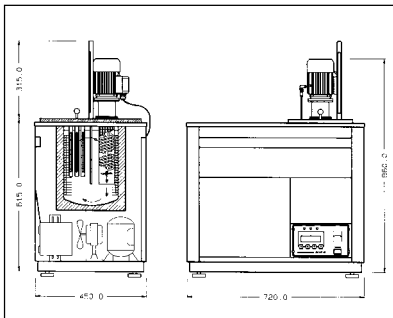
- complete control of the bath from the PC,
- manual or automatic calibration of one or more probes,
- cyclic life or stress tests on temperature sensors,
- automatic threshold thermostat test,
- filing and printing of the results obtained, guaranteeing that ISO 9000 standards are observed.

FLUID LEVEL ADAPTER (by request)

The fluid level adapter slides directly into the test wells of the BK40 M bath is designed for customers that needing to calibrate glass thermometers.

The fluid level adapter creates a positive bath fluid surface. The bath fluid is pumped up through the test well to the surface of the bath and kept there. In relation to the liquid viscosity the operator can regulate the level rotating the adapter tube.

The clear adapter cover protects the bath fluid from ambient temperature effects for better bath stability. The cover can be drilled for any size probe.



STANDARD EQUIPMENT

- BK40 M : base version
- BK40 M/TR : version with fluid level adapter

ACCESSORIES BY REQUEST

- 9 Kg tan of glycol
- 9 Kg tan of Silicon Oil 47 V20

TECHNICAL DATA

(with mix of glycol / water)

Operative range	-40/+125°C
Stability	$\pm 0.05^\circ\text{C}$
Display resolution	0.01/0.1°C
Reading accuracy	$\pm 0.2^\circ\text{C}$ a 120°C
Ascent rate	2°C min (-40/+50°C)
Descent rate	0.5°C min (30/-20°C)
Power supply	230 V - 50Hz.
Power	2500 W
Weight	60 Kg
Size	720 x 450 x 860
Overall size	560 x 800 x 970
Shipping weight	74 Kg

Operative range	Recommended fluid	Stability	Uniformity	Descent time
-40 + 80°C	Ethylene Glycol	$\pm 0.05^\circ\text{C}$ (a-20°C)	$\pm 0.05^\circ\text{C}$	0.4°C/1'
-40 + 125°C	Silicone oil 47V20	$\pm 0.05^\circ\text{C}$ (a-20°C)	$\pm 0.1^\circ\text{C}$	1°C/1'



ISO 9001
CERT. N° 9115 GIU1



CERTIFICATION

All the instrument are supplied with final testing, stability and accuracy certification traceable to SIT standards

A QUESTION OF CALIBRATION

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