BK40 M

CRYOSTATIC BATH

Operating range:
-40 / +125 °C

Applications:

- *Control and calibration of temperature sensors in laboratory.*
- *Automatic computer-controlled calibrations of thermostats.*

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BK40 M

CRYOSTATIC BATH

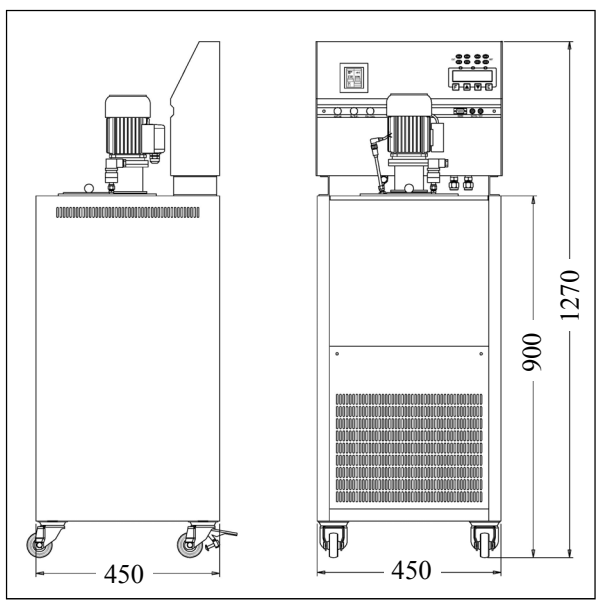
The **BK40 M** bath is an instrument used to calibrate transducers, RTD and temperature-measuring sensors in the field and in the laboratory. The possibility to generate positive and negative temperature ramps makes it suitable for use in calibrating and testing thermostats.

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.
BK40 M is equipped with a new PID microprocessor controller with a resolution up to 0,01 °C, setting of the standard of measurement in °C, °F e K, programming of ascent/descent ramps and storage of the thermostats' operative temperature.
The instrument is also equipped with an acquisition card having two adjustable inputs (Pt100 3/4 wires; thermocouples: J, K, N, R, S) with bushes fitted with gold-plated contacts and automatic compensation of the cold junction.
The first input is provided for the reference sample probe, thus obtaining a complete calibration system which can be certified by SIT centres, in compliance with ISO 9000 regulations.
The second input is provided for probes that are being tested; hence, the instrument can display the temperatures of the furnaces, the temperature of the sensor to be checked and of the reference sample probe, at the same time.
Furthermore, **BK40 M** is equipped with the RS232 serial interface; it can operate in automatic mode connected to the PC by means of the AQ2sp software which enables to carry out probe calibrations and cyclical life tests; test results can be stored and printed, so they are easily traceable in compliance with ISO 9000 Standards.
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 ISO 9000 Standards.

FLUID LEVEL ADAPTER

FLUID LEVEL ADAPTER: (On demand)
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.



HOW TO ORDER:

BK40 - ☐ - ☐

- ☐ = 00 - standard version
- ☐ = 2I - version with 2 adjustable inputs

- M - standard version
- M/TR - version with fluid level adapter

ACCESSORIES ON DEMAND:

- **TDA**: multichannel data acquisition unit with the Professional AQ2sp software used for automatic calibration of probes and thermostats.
- Custom-made **equalization blocks**.
- 9 kg **glycol** tank.
- 9 kg silicone oil **47V20** tank.
- 9 kg silicone oil **200C5** tank.

TECHNICAL DATA
(with mix of glycol/water)

Operating range:	-40 ÷ +125 °C
Stability:	±0,05 °C
Display resolution:	0,01 °C / 0,1 °C
Display accuracy:	±0,2 °C (@ 120 °C)
Heating time:	2 °C/min (-40 / +50 °C)
Cooling time:	0,5 °C/min (+30 / -20 °C)
Power supply:	230 V - 50 Hz
Electric power:	2500 W
Weight:	70 kg
Size:	450 x 1270 x 450 mm
Shipping weight:	85 kg
Shipping size:	500 x 1400 x 560 mm

Operating range	Recommended fluid	Stability	Uniformity	Cooling time
-40 / +80 °C	Ethylene glycol	±0,05 °C (@ –20 °C)	±0,05 °C	0,4 °C/min
-20 / +125 °C	Silicone oil 47V20	±0,05 °C (@ –20 °C)	±0,1 °C	1 °C/min
-40 / +125 °C	Silicone oil 200C5	±0,05 °C (@ –20 °C)	±0,1 °C	1 °C/min

ISO 9001
CERT. N°9115

CE

CERTIFICATION:
All instruments are supplied with final testing, stability and accuracy certification traceable to S.I.T. standards.

A QUESTION OF CALIBRATION

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