

TB 300 M

THERMOSTATIC BATH



Operating range: Amb./+300°C

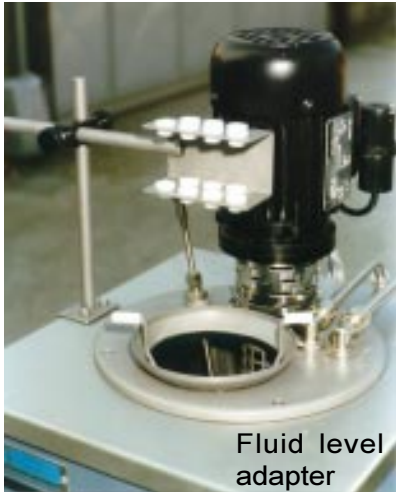
Applications: Control calibration of temperature sensors in laboratory, in conformity with ISO 9000 standards; Control of thermostats; Automatic computer-controlled calibrations



GIUSSANI

TB 300 M

THERMOSTATIC BATH



The TB300 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 TB300 M bath consists of a stainless tank with capacity of 10 litres, useful height 350 mm and diameter 110 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 TB 300M allows the apparatus to operate at an optimum accuracy of $\pm 0.2^\circ\text{C}$ @ 150°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 TB300 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 TB300 M with the software AQ2sp for Windows can carry out:

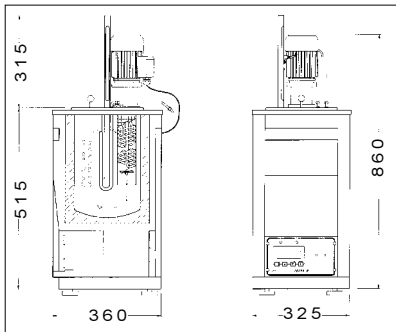
- complete control of the bath from the PC,
- manual or automatic calibration of one or more probes,
- cyclic life or stress tests on temperature sensors,
- automatic threshold thermostat test,
- filing and printing of the results obtained, guaranteeing that ISO 9000 standards are observed.

FLUID LEVEL ADAPTER (by request)

The fluid level adapter slides directly into the test wells of the TB300 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

- TB300 M : base version
- TB300 M/TR : version with fluid level adapter

ACCESSORIES BY REQUEST

- 9 Kg tan of Silicon Oil 47V20
- 9 Kg tan of Silicon Oil 47V100
- 9 Kg tan of Silicon Oil 550

Operative range	Recommended fluid	Stability	Uniformity	Descent time
Amb. + 80°C	Water	$\pm 0.03^\circ\text{C}$ (a 80°C)	$\pm 0.04^\circ\text{C}$	2°C/1'
Amb. + 125°C	Silicon Oil 47V20	$\pm 0.04^\circ\text{C}$ (a 100°C)	$\pm 0.05^\circ\text{C}$	5°C/1'
50 + 180°C	Silicon Oil 47V100	$\pm 0.05^\circ\text{C}$ (a 200°C)	$\pm 0.05^\circ\text{C}$	6°C/1'
50 + 230°C	Silicon Oil 550	$\pm 0.05^\circ\text{C}$ (a 200°C)	$\pm 0.05^\circ\text{C}$	6°C/1'

TECHNICAL DATA

Operating range	Amb./+300°C
Stability	$\pm 0.05^\circ\text{C}$
Resolution	0.01/0.1°C
Reading precision	$\pm 0.2^\circ\text{C}$ @ 150°C
Power supply	230 V - 50Hz.
Power	1600 W
Weight	26 Kg
Dimensions	325 x 360 x 860
Overall size	400 x 500 x 950
Shipping weight	35 Kg



ISO 9001
CERT. N° 9115 GIU1



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CERTIFICATION

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

A QUESTION OF CALIBRATION