



9300A TEMPERATURE CONTROLLED AIR BATH



Featuring

- ▶ Volume 106 Litres
- ▶ Range $\pm 15^{\circ}\text{C}$ to 40°C
- ▶ Stability ± 0.005 @ 23°C
- ▶ Peltier Cooled
- ▶ Fast Heating/Cooling Rate
- ▶ Stainless Steel Construction
- ▶ Perfect for Temperature Coefficient Measurements

Overview

The Model 9300A Series Temperature Controlled Chambers are designed as a convenient and inexpensive way to maintain the temperature of air resistors in the calibration laboratory. It is large enough to house several standard air resistors and features two adjustable shelves to permit easy access to the standards. The shelves are easily removable.

Easy access to the inside of the chamber is achieved through the conveniently mounted front door. Resistor leads are brought into the chamber through a small, insulated opening in the rear of the unit. The integrated control unit adds convenience as it eliminates a separate controller unit. Temperature control is located inside the

chamber. A keyboard control can be used to set the individual temperatures between 15°C and 40°C , or the temperature may be set over the GPIB.

Cooling and heating for the chamber is provided for by a thermoelectric Peltier element using internal thermistors as sensing elements. Internal fans are used to move the air inside the chamber to provide for better temperature stability and uniformity while maintaining a quiet operation. The internal temperature is shown on an external display located on the front of the chamber.

The Over Temperature Protection (OTP) has 4 selectable ranges.

Feature	Benefit
Peltier Cooled	Does not suffer from the electric and audible noise of a compressor based airbath
GPIB Controlled	Allows for calculation of α and β coefficients
Large Working Area	Allows to multiple resistance standards or product
Fast heating/cooling rate	Quickly recovers from open door
2 Level Temperature Protection	Prevents thermal runaway should Heater/Cooler fail
MI Software Compatible	Interfaces with existing MI Software for ease of integration



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Specifications: Rev 10

Internal Dimensions (LxWxH)	330 x 510 x 630 (mm)
Volume (L)	106
Temperature Range (°C)	+15 to +40
Temperature Display Resolution (°C)	0.001
Temperature Set Resolution (°C)	0.001
Temperature Stability (°C)	±0.005 @ 23°C
Temperature Uniformity (°C)	±0.01 @ 23°C ±0.05 @ 15°C ±0.10 @ 35°C
Heating Rate	100min (+15°C to +40°C)
Cooling Rate	100min (+40°C to +15°C)
Temperature Control	PID
Interface	GPIB
Shelves	2
Access Port	1 x 50 mm Dia

Dimensions (L × W × H):
432 x 660 x 940 (mm)

Weight:
73 kg

Shipping Weight:
88 kg

Mains Power:
100 to 240 V_{ac}, 50/60 Hz, 300 VA

Corporate Headquarters
Measurements International
PO Box 2359, 118 Commerce Drive
Prescott, Ontario, Canada K0E 1T0

Phone: 613-925-5934
Fax: 613-925-1195
Email: sales@mintl.com
Toll Free: 1-800-324-4988

Worldwide Offices
MI-USA
Phone: 407-706-0328
Email: sales@mintl.com

MI-China
Phone: +(86) 10-64459890
Email: sales@mintl.com

MI-Europe
Phone: +(420) 731-440-663
Email: sales@mintl.com

MI-Japan
Phone: +(81) 72 39 64 660
Email: kaz@mijpn.com

MI-India
Phone: +(91) 98 10 134 932
Email: sales@MILLP.co.in

