



9300 TEMPERATURE CONTROLLED AIR BATH

Simplify Your Procedures. Simplify Your Work.



Featuring

- ▶ Volume 84L, much larger than previous model
- ▶ Temperature Range 15 °C to 35 °C
- ▶ Stability ± 50 mK for ± 1 °C
- ▶ Dual Peltier Cooled
- ▶ Improved Heating/Cooling Rate
- ▶ Temperature Band Protection
- ▶ Perfect for Temperature Coefficient Measurements
- ▶ Lightweight and Portable



Overview

The model 9300 series of Air Baths has been completely redesigned to provide customers with a convenient and inexpensive way to maintain the temperature of air resistors in the calibration laboratory. The focus in the redesign was around the heating and cooling rate as well as the overall performance of the unit. It is large enough to house several standard air resistors and features an adjustable shelf to permit easy access to the standards. These shelves are easily removable in order to accommodate two pieces of ESI type SR104 standard in the bath. The bath is small and rugged and may be moved about easily.

Easy access to the inside of the bath is achieved through the conveniently mounted front door. Resistor leads are brought into the bath through a small, insulated opening in the rear of the unit. The integrated control unit adds convenience as it eliminates a separate controller unit. The temperature control setting is located outside the bath. A vernier type control is used to set the individual temperatures between 15 °C and 35 °C. A corresponding graph of vernier settings versus temperature is supplied with each unit.

Cooling and heating for the bath are provided by dual thermoelectric Peltier element using an internal thermistor as the sensing element. An internal fan is used to move the air inside the bath to provide for better temperature stability and uniformity while maintaining a quiet operation. The internal temperature is shown on a LCD located inside of the bath. The LCD display module can also be programmed to set over and under control limits. If the temperature should exceed these points, the power to the bath is disconnected.



Measurements International

Metrology is Our Science, Accuracy is Our Business™

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Specifications:

External dimensions (L x W x H)	514mm x 400mm x 838 mm
Internal dimensions (L x W x H)	330mm x 343mm x 743 mm
Volume (L)	84 L
Temperature Control	PID
Temperature Set and Display Resolution (°C)	0.1
Temperature Range (°C)	+ 15...+ 35
Access Port	1 x 50 mm Dia
Temperature Stability (°C)	± 0.050 @ 23 °C
Temperature Uniformity (°C)	± 0.1 @ 23 °C ± 0.2 @ 15 °C ± 0.3 @ 35 °C
Heating Rate	~ 200 min (+ 15...+ 35)
Cooling Rate	~ 200 min (+ 40...+ 15)
Power Supply	85 – 265 V 47/63 Hz
Wattage (W)	100
Interface, Shelves	None, 2
Net Weight	30 kg

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