



Temperature Controlled Chamber

- Stability to < 0.015 °C
- Large working area (4 SR104's)
- Temperature band protection
- Peltier cooled
- Stainless steel construction
- Temperature range 15 °C to 40 °C
- IEEE488
- Interfaces to 6020, 6010, 6242 & 6000B for automatic measurements of temperature coefficients using MI software

Model 9300A



Model 9300A Temperature Controlled Chamber

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.





Model 9300A Temperature Controlled Chamber

Specifications: Rev 9

Temperature Set Range (maximum ΔT of 12 °C relative to ambient temperature)	15 °C to 40 °C (59 °F to 104 °F)
Set Point Resolution	0.001 °C
Temperature Stability (± 2 °C ambient temp per 24h)	± 0.015 °C
Set Point Temperature Accuracy	± 0.05 °C
Readout Resolution	0.001 °C
Temperature Attenuation	± 0.04 °C/°C of ambient temperature
Temperature Ramp Time (15 - 40 °C)	100 min
Temperature Ramp Time (40 - 15 °C)	100 min
Selectable over temperature protection range (OTP)	Without Temperature Protection
	From 14 °C to 41 °C
	From 17 °C to 31 °C
From 18 °C to 28 °C	
Internal Dimensions	330 x 510 x 630 mm
Operating Environment	18 °C to 34 °C (64 °F to 93 °F)
Maximum power dissipated in the internal chamber	5 W
Power on stabilization	3 Hours
Warranty	1 Year Parts & Labor
<i>*Ambient represent typical lab temperature of 23 °C</i>	

Dimensions: (L x W x H)

432 x 660 x 940 mm

Weight:

73 kg

Shipping Weight:

88 kg

Main Power:

100 - 240 V @ 50/60 Hz

320 VA Max.

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