

>183.65546 67816.12287 577 54  
>198.65546 65612.232829 955 54  
>198.65546 65612.232829 95556  
>152.698016 68818.282399 92356  
>198.643636 78617.732289 783 56  
>124.634546 78672.237779 683 56  
>458.11142 83417.782397 876 56  
>145.523286 64486.222689 986 56  
>140.77060 32814.077060 328 56

## MODEL 9300A



## Temperature Controlled Standard Resistor Air Bath with GPIB

- Stability <15 mK
- Large working area (4 SR104's)
- Temperature band protection
- Peltier cooled
- Stainless steel construction
- Temperature range 15°C to 40°C
- IEEE488
- Only available commercial Air Bath that interfaces to 6010, 6242 & 6000B for automatic measurements of temperature coefficients using MI software

## MODEL INFORMATION

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.



## Specifications:

Temperature Set Range (maximum setting point of 12°C below ambient temperature)	15 to 40°C (59 to 104°F)
Set Point Resolution	0.001°C
Temperature Stability	± 15 mK for ± 2°C change in ambient
Temperature Accuracy	± 50 mK
Readout Resolution	0.001°C
Temperature Ramp Time (15-40°C)	100 min
Temperature Ramp Time (40-15°C)	100 min
Selectable OTP Range	Without Temperature Protection
	14°C ≈ 41°C
	17°C ≈ 31°C
	18°C ≈ 28°C
Internal Dimensions	330 x 510 x 630 mm
Operating Environment	18 to 34°C (64 to 93°F)
Warranty	1 Year Parts & Labor

### Dimensions (L x W x H):

668 x 432 x 946 mm

### Weight:

73 kg max

### Shipping Weight:

88 kg

### Main Power

100-240V @ 47-63Hz

320 VA Max.



### CalPlus GmbH

Zentrale Berlin  
Heerstraße 32 • 14052 Berlin  
Tel.: 030 214982-0 • Fax: 030 214982-50  
office@calplus.de • www.calplus.de

### CalPlus GmbH

Niederlassung ScopeShop  
Normannenweg 30 • 20537 Hamburg  
Tel.: 040 3039595-0 • Fax: 040 3039595-50  
scopeshop@calplus.de • www.calplus.de

Form MI 66, Rev. 8, Dated 2012-03-28 (QAP19, App. "N")

Data Subject to Change - Rev. 6

### 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  
Fax: (407) 706-0318  
Email: sales@mintl.com  
Toll Free: 1-866-684-6393

#### MI-China

Phone: 86-10-64459890  
Fax: 86-10-64459871  
Email: sales@mintl.com

#### MI-Europe

Phone: (420) 731-440-663  
Fax: (420) 572-572-358  
Email: sales@mintl.com



www.mintl.com