

# **GEO** *Calibration*

## **Model 4000**

PRODUCT OVERVIEW

# GENERAL SPECIFICATIONS

CALIBRATION TO (17025 TRACEABLE TO NIST)	TRANSFER STANDARD	No Charge		
	CERTIFICATE	17025 Validation (Additional Fees Apply)		
OPERATING AMBIENT CONDITIONS	TEMPERATURE	18 °C to 28 °C		
	HUMIDITY	Up to 80 % RH		
CONTROLLED RANGE	TEMPERATURE	5 °C to 55 °C		
	HUMIDITY@18 °C	5 % to 95 % RH	HUMIDITY@30 °C	5 % to 75 % RH
	HUMIDITY@23 °C	5 % to 95 % RH	HUMIDITY@40 °C	5 % to 60 % RH
	HUMIDITY@28 °C	5 % to 80 % RH	HUMIDITY@50 °C	5 % to 40 % RH
CALIBRATION SYSTEM ACCURACY	TEMPERATURE	±0.10 °C	*Based on Probe Accuracy	
	HUMIDITY	± 1.00 % RH Or Better	Typically +/- 0.50 %	*Based on Probe Accuracy
	CONTROLLER TYPE	PID Controller		
UNIFORMITY	TEMPERATURE	0.10 °C		
	HUMIDITY	0.30 % RH @ 23 °C		
STABILITY	TEMPERATURE	0.05 °C		
	HUMIDITY	0.15 % RH @ 23 °C		
RESOLUTION	DISPLAY	Temperature	0.01 °C	
		Humidity	0.01 % RH	
		Dew Point	0.01 °C (Calculated)	
RAMP / SOAK RATE OF CHANGE <small>*Depends on ambient and desiccant conditions</small>	TEMPERATURE	High → Low	0.50 °C / minute	*Typical (Based on Desiccant)
		Low → High	1.00 °C / minute	*Typical (Based on Desiccant)
	HUMIDITY	High → Low	1.00 % RH / minute	*Typical (Based on Desiccant)
		Low → High	5.00 % RH / minute	*Typical (Based on Desiccant)
*In high humidity environment, please set the temperature first. Once temperature settled, then set the humidity.				

# CONSUMABLES

WATER	RESERVOIR	1.75 L		
	SPILL RESISTANT	Yes		
	REQUIRED FLUID	Distilled Water Only		
	EST. REFILL PERIOD	15 Days (Typical)	*Depends on Usage	
	FILL INDICATOR	Floating Ball		
DESICCANT	TYPE	Molecular Sieve		
	REPLACEMENT	When Indicating Desiccant is 3/4 Used		
	REPLACEMENT FREQUENCY	Depends Entirely on User Workload		
	LOCATION	Front Mounted		
	FASTENER	Desiccant Doors		
RECALIBRATION	FREQUENCY	Depends on User Uncertainty Requirements		
		Once Per Year Recommended		

# MECHANICAL AND ELECTRICAL

<b>BODY ENCLOSURE</b>	<b>Material</b>	Powder Coated Aluminum		
<b>GENERATOR DIMENSIONS</b>	<b>Measurement Type</b>	<b>Depth</b>	<b>Width</b>	<b>Height</b>
	Metric	67.16 cm	77.30 cm	50.15 cm
	English	26.44 in	30.43 in	19.74 in
<b>CHAMBER DIMENSIONS</b>	<b>Measurement Type</b>	<b>Depth</b>	<b>Diameter</b>	
	Metric	32.50 cm	34.00 cm	
	English	12.79 in	13.38 in	
<b>WORKING DIMENSIONS AND VOLUME</b>	<b>Measurement Type</b>	<b>Depth</b>	<b>Diameter</b>	
	Metric	33.40 cm	29.00 cm	
	English	13.16 in	11.42 in	
	<b>Volume</b>	20 Liters		
<b>CHAMBER ENCLOSURE</b>	<b>Material</b>	Insulated Acrylic		
<b>CHAMBER CAPACITY</b>	38 Liters			
<b>PROBE PORTS</b>	10 Ports			
<b>WEIGHT</b>	Metric	45.36 kg		
	English	100.00 lb		
<b>POWER SUPPLY</b>	Universal 100 - 260 VAC - 50/60 Hz			
<b>EXTERNAL INTERFACE</b>	<b>USB</b>	Cable		

## Ordering Information

### Standard Supply Package

\*Customization is Available

\* Complete Accessory List is Available at [www.geocalibration.com](http://www.geocalibration.com)

Ten Port Door	3 Desiccant Canisters	Fill Syringe
7 Grommets (1/8", 1/4", 3/8", 1/2", 5/8", 3/4", 7/8")	Mains Power Cord	Calibration Documents

## Accessories

Doors	Shape	Port Quantity	Description	Connector Type	Part Number			
	Hinged	10-Port Door	M4000 Standard Door	Slimline Connectors	01-400-01-0019			
	Hinged	10-Port Door	M4000 Chilled Mirror Door	Slimline Connectors Without Isolated Chamber Insert	01-400-01-0020			
			Chilled Mirror Door Insert		01-400-01-0021			
	Round		M4000 Chilled Mirror Door Cover		01-400-01-0022			
Grommets	Port Type	Size (in)	Size (mm)	Part Number	Port Type	Size (in)	Size (mm)	Part Number
	M36	0.000"	0.000	01-004-09-0001	SLIMLINE	0.125"	3.175	01-004-09-0020
	M36	0.125"	3.175	01-004-09-0002	SLIMLINE	0.250"	6.350	01-004-09-0021
	M36	0.250"	6.350	01-004-09-0003	SLIMLINE	0.375"	9.525	01-004-09-0022
	M36	0.375"	9.525	01-004-09-0004	SLIMLINE	0.500"	12.700	01-004-09-0023
	M36	0.500"	12.700	01-004-09-0005	SLIMLINE	0.625"	15.875	01-004-09-0024
	M36	0.625"	15.875	01-004-09-0006	SLIMLINE	0.750"	19.050	01-004-09-0025
	M36	0.750"	19.050	01-004-09-0007	SLIMLINE	0.825"	20.950	01-004-09-0026
	M36	0.875"	22.225	01-004-09-0008	SLIMLINE	1.000"	25.400	01-004-09-0027
	M36	1.000"	25.400	01-004-09-0009				
Additional	Description	Part Number	Description	Part Number				
	Desiccant Canister w/ Material	01-250-11-0001	Chamber Insert	01-400-01-0023				
	External Desiccant	01-450-01-0034	(Various Desiccant Canisters Available For This Unit.)					


\*\*Information subject to change, please visit our website for updates at [www.geocalibration.com](http://www.geocalibration.com).





**GEO**  
*Calibration*  
Humidity Control Company



Proudly Made in the USA 

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