



GEO
Calibration

Model 4000

GENERAL SPECIFICATIONS

CALIBRATION	TRACEABILITY	17025 Traceable to NIST		
	PURCHASING	Charged Separately		
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		
	HUMIDITY	+/- 1.00 % RH Or Better	Typically +/- 0.50 %	
	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	Temperature	High → Low	0.50 °C / minute	*Typical
		Low → High	1.00 °C / minute	*Typical
	Humidity	High → Low	1.00 % RH / minute	*Typical
		Low → High	5.00 % RH / minute	*Typical
*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		
RECALIBRATION	FASTENER	Desiccant Doors		
		FREQUENCY	Depends on User Uncertainty Requirements	
		Once Per Year Recommended		

MECHANICAL AND ELECTRICAL

BODY ENCLOSURE	Material	Powder Coated Aluminum		
	Measurement Type	Depth	Width	Height
GENERATOR DIMENSIONS	Metric	671.60 mm	773.00 mm	501.50 mm
	Imperial	26.44 in	30.43 in	19.74 in
	Measurement Type	Depth	Diameter	
CHAMBER DIMENSIONS	Metric	325 mm	340 mm	
	Imperial	12.79 in	13.38 in	
	Measurement Type	Depth	Diameter	
WORKING DIMENSIONS AND VOLUME	Metric	334 mm	290 mm	
	Imperial	13.16 in	11.42 in	
	Volume	20 Liters		
CHAMBER ENCLOSURE	Material	Insulated Acrylic		
CHAMBER CAPACITY		38 Liters		
PROBE PORTS		10 Ports		
WEIGHT	Metric	45.36 kg		
	Imperial	100.00 lb		
POWER SUPPLY		Universal 100 - 260 VAC - 50/60 Hz		
EXTERNAL INTERFACE	USB	Cable		

Ordering Information

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

Doors	Shape	Port Quantity	Description	Connector Type	Part Number			
	Hinged	10-Port Door	4000-CM-EXP-DOOR	Slimline Connectors With Isolated Chamber Insert	01-400-01-0015			
	Hinged	10-Port Door	4000-CM-EXP-DOOR	Slimline Connectors Without Isolated Chamber Insert	01-400-01-0020			
	Hinged	10-Port Door	Standard Door	Slimline Connectors	01-400-01-0019			
			Chilled Mirror Door Insert		01-400-01-0021			
	Round		Blank Door		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				
Assorted	Description	Part Number	Description	Part Number				
	Desiccant Canister	01-250-11-0001	Insert	01-400-01-0023				
	External Desiccant	01-450-01-0034	Shelf	01-400-07-0025				



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