

Model 4000 Humidity Generator



Special Features

- 38 Liter, Optional Automated Calibrations with optional integrated chilled mirror
- Best in class system accuracy and uniformity
- Rapid humidity and temperature settling time for highly accurate calibration
- 3 Auto Switching Desiccant Ports
- Internal Rack for Mass Data Logger Calibration
- Supports on-site, multi-point calibration of humidity probes
- Factory Calibration Transfer Standard included and optional ISO17025 Accredited calibration available

GENERAL SPECIFICATIONS

CALIBRATION TO (17025 TRACEABLE TO NIST)	FACTORY CALIBRATION	No Charge		
	CERTIFICATE	17025 Validation (optional)		
OPERATING AMBIENT CONDITIONS	TEMPERATURE	18 °C to 28 °C		
	HUMIDITY	Up to 80 % RH		
CONTROLLES 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@30°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 *Depends on ambient and desiccant conditions	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

BODY ENCLOSURE	Material	Powder Coated Aluminum		
GENERATOR DIMENSIONS	Measurement Type	Depth	Width	Height
		67.16 cm	77.30 cm	501.5 cm
CHAMBER DIMENSIONS	Measurement Type	Depth	Diameter	
		32.50 cm	34.00 cm	
WORKING DIMENSIONS AND VOLUME	Measurement Type	Depth	Diameter	
		33.40 cm	29.00 cm	
	Volume	20 Liters		
CHAMBER ENCLOSURE	Material	Insulated Acrylic		
CHAMBER CAPACITY	38 Liters			
PROBE PORTS	10 Ports			
WEIGHT	45.36 kg			
POWER SUPPLY	Universal 100 - 260 VAC - 50/60 Hz			
EXTERNAL INTERFACE	USB	Cable		



Your Note

Area with horizontal dashed lines for taking notes.