

Model 4000 EXP Humidity Generator



The Model 4000 EXP is a vertical Temperature and Humidity generator that supports large calibration equipment. This unit comes with a temperature-controlled door, which will maintain internal temperature unchanged due to outside ambient temperature change.

Special Features

- 3-5 Minute Response Times
- Automatic Ramp/Soak
- 30 Liter Square chamber for Data Loggers, Chart Recorders and Probe Calibration
- Engineered to support legacy Hair Hygrometers

GENERAL SPECIFICATIONS

CALIBRATION	TRACEABILITY	17025 Traceable to NIST	
	PURCHASING	Charged Separately	
CONTROLLED RANGE	TEMPERATURE	Ambient +/-5 °C	
	HUMIDITY@18 °C	10 % to 70 % RH	
	HUMIDITY@23 °C	10 % to 90 % RH	
	HUMIDITY@28 °C	10 % to 70 % RH	
CALIBRATION SYSTEM ACCURACY	TEMPERATURE	+/- 0.3 °C or Better	
	HUMIDITY	+/- 3.0 % RH or Better	
	CONTROLLER TYPE	PID Controller	
UNIFORMITY	TEMPERATURE	0.3 °C @ 23°C	
	HUMIDITY	3.0 % RH @ 23°C	
STABILITY	TEMPERATURE	0.2 °C	
	HUMIDITY	1 % RH @ 23°C	
RESOLUTION	DISPLAY	Temperature	0.1 °C
		Humidity	0.1 % RH
RAMP / SOAK RATE OF CHANGE	Temperature	High → Low	1 °C / minute (Typical)
		Low → High	1 °C / minute (Typical)
	Humidity	High → Low	1 % RH / minute (Typical)
		Low → High	1 % RH / minute (Typical)

CONSUMABLES

WATER	RESERVOIR	600 ml
	SPILL RESISTANT	No
	REQUIRED FLUID	Distilled Water Only
	EST REFILL PERIOD	2 Weeks (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	External
	FASTENER	Connect with Tube
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
	Metric	51.43 cm	41.76 cm	83.21 cm
	Imperial	20.25 in	16.44 in	32.76 in
CHAMBER DIMENSIONS	Measurement Type	Depth	Width	Height
	Metric	20.03 cm	31.77 cm	53.41 cm
	Imperial	7.89 in	12.51 in	21.03 in
CHAMBER ENCLOSURE	Material	Insulated Acrylic		
CAPACITY	30 Liters			
WEIGHT	Metric	28 kg		
	Imperial	61.75 lb		
POWER SUPPLY	Universal 100 - 260 VAC - 50/60 Hz			
EXTERNAL INTERFACE	USB	Cable		

ACCESSORIES

Doors	Shape		Port Quantity	Connector Type		
	Square		6-Port Door	M36 Connectors		
	Round		6-Port Door	M36 Connectors		
	Square		6-Port Door	Slimline Connectors		
	Round		6-Port Door	Slimline Connectors		
Grommets	Port Type	Size (in)	Size (mm)	Port Type	Size (in)	Size (mm)
	M36	0.000"	0.000	SLIMLINE	0.125"	3.175
	M36	0.125"	3.175	SLIMLINE	0.250"	6.350
	M36	0.250"	6.350	SLIMLINE	0.375"	9.525
	M36	0.375"	9.525	SLIMLINE	0.500"	12.700
	M36	0.500"	12.700	SLIMLINE	0.625"	15.875
	M36	0.625"	15.875	SLIMLINE	0.750"	19.050
	M36	0.750"	19.050	SLIMLINE	0.825"	20.950
	M36	0.875"	22.225	SLIMLINE	1.000"	25.400
	M36	1.000"	25.400			
Additional	Description			Description		
	External Desiccant			Shelf		
	Spring Loaded Accessory					

Your Note

Area with horizontal dashed lines for taking notes.