

# Hygro Max Humidity Generator/Calibrator



## Special Features:

- 24 Liter, Round Chamber for Data Loggers, Chart Recorders and Probes Calibration
- Rapid humidity and temperature settling time for high accurate calibration
- Optional Automated Calibration with optional integrated Chilled Mirror
- Optional Dry Nitrogen System for lower temperature and humidity calibration
- Internal Racks for bulk calibration of Data Loggers
- 3 auto switching desiccant ports
- Supports on-site, multi-point calibration of humidity probes
- Factory Calibration Transfer Standard included and optional ISO17025 Accredited calibration available (Additional Fees Apply)

### GENERAL SPECIFICATIONS

<b>CALIBRATION TO (17025 TRACEABLE TO NIST)</b>	<b>TRANSFER STANDARD CERTIFICATE</b>	No Charge 17025 Validation (Additional Fees Apply)		
<b>OPERATING AMBIENT CONDITIONS</b>	<b>TEMPERATURE</b>	18 °C to 28 °C		
	<b>HUMIDITY</b>	Up to 80 % RH		
<b>CONTROLLED RANGE</b>	<b>TEMPERATURE</b>	0 °C to 60 °C		
	<b>HUMIDITY @ 18°C</b>	1 % to 95 % RH	<b>HUMIDITY @ 30°C</b>	1 %* to 80 % RH
	<b>HUMIDITY @ 23°C</b>	1 % to 99 % RH	<b>HUMIDITY @ 40°C</b>	1 % to 60 % RH
	<b>HUMIDITY @ 28°C</b>	1 % to 95 % RH	<b>HUMIDITY @ 50°C</b>	1 % to 50 % RH
<b>CALIBRATION SYSTEM ACCURACY</b>	<b>TEMPERATURE</b>	± 0.1 °C or better Typically ± 0.05 °C		*Based on Probe Accuracy
	<b>HUMIDITY</b>	± 0.50 % RH or better Typically ± 0.30 %		*Based on Probe Accuracy
	<b>CONTROLLER TYPE</b>	PID Controller		
<b>UNIFORMITY</b>	<b>TEMPERATURE</b>	0.10 °C		
	<b>HUMIDITY</b>	0.30 % RH @ 23 °C		
<b>STABILITY</b>	<b>TEMPERATURE</b>	0.05 °C		
	<b>HUMIDITY</b>	0.10 % RH @ 23 °C		
<b>RESOLUTION</b>	<b>DISPLAY</b>	Temperature	0.01 °C	
		Humidity	0.01 % RH	
		Dew Point	0.01 °C (Calculated)	
<b>RAMP / SOAK RATE OF CHANGE</b>	<b>TEMPERATURE</b>	High → Low	0.50 °C / minute	*Typical (Based on Desiccant)
		Low → High	1.00 °C / minute	*Typical (Based on Desiccant)
*Depends on ambient and desiccant conditions	<b>HUMIDITY</b>	High → Low	1.00 % RH / minute	*Typical (Based on Desiccant)
		Low → High	2.50 % RH / minute	*Typical (Based on Desiccant)

\*In high humidity environment, please set the temperature first. Once temperature settled, then the humidity.

### CONSUMABLES

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

## MECHANICAL AND ELECTRICAL

<b>BODY ENCLOSURE</b>	<b>MATERIAL</b>	Powder Coated Aluminium		
<b>GENERATOR DIMENSIONS</b>	<b>Measurement Type</b>	<b>Width</b>	<b>Depth</b>	<b>Height</b>
	Metric	52.15 cm	86.50 cm	51.27 cm
<b>CHAMBER DIMENSIONS</b>	<b>Measurement Type</b>	<b>Width</b>	<b>Diameter</b>	
	Metric	23.01 cm	34.44 cm	
<b>WORKING DIMENSIONS AND VOLUME</b>	<b>Measurement Type</b>	<b>Width</b>	<b>Diameter</b>	
	Metric	211.97 mm	32.03 cm	
<b>CAMBER ENCLOSURE</b>	<b>MATERIAL</b>	Carvon Fiber with Aluminum / Eva Insolation		
	<b>PROBE PORTS</b>	12 Ports		
<b>WEIGHT</b>	Metric	50.8 kg		
	English	112,0 lb		
<b>POWER SUPPLY</b>	Universal 100 – 260 VAC – 50/60 Hz			
<b>EXTERNAL INTERFACE</b>	USB	Cable		



