

The Model 1500

The original compact humidity generator from GEO.
Lightweight, accurate, efficient.

Features:

Portable Design
Spill Resistant
Custom Probe Ports

8.4 kg
± 1.0% RH or better
37cm (D) x 46cm (W) x 16cm (H)



CONTROL

Range	RH	10% to 95%	@ 23°C
	Temperature	10 to 55°C	
	Dew Point	- 25°C to 45°C	
Uniformity	RH	±0.3%	@ 10% to 50%
		±0.4%	@ 50% to 90%
		±0.5%	@ 90% to 95%
	Temperature	±0.2°C	@ 50%RH
Stability at Equilibrium	RH	± 0.3%	@ 23°C
	Temperature	± 0.2°C	
Controller Type	Embedded multiple input PID controller, LCD		
Resolution	RH	0.1%	
	Temperature	0.1°C	
Generation Method	Mixed flow with desiccant dryer cell and heating element humidifier		

PERFORMANCE

Response Time	RH	3 - 5 Minutes	
	Temperature	Cooling	1.5°C / Minute
		Heating	5°C / Minute
Calibration Uncertainties	RH	± 1.0%	@ 10 - 80%
		± 1.25%	@ 80 - 95%
	Temperature	± 0.2°C	
Control Probe	RH Uncertainty	± .6%	@ 23°C
	Calibration Certificate	Traceable to NIST	

STANDARD FEATURES

Water	Reservoir	50 ml
	Spill Resistant	Yes
	Water Quality	Distilled
	Est Refill Period	1 Month *Typical
	Fill Indicator	Front Panel
Desiccant	Type	Molecular Sieve
External Interface	USB	Cable and Software Included

OPTIONAL FEATURES

External Reference	Outlet and Inlet	Plastic fittings to prevent condensation
	Size	1/4" turn quick connectors
Analog Outputs	Temperature / RH	Analog 0 - 1 Volt

MECHANICAL / ELECTRICAL

Generator	Dimensions	37 cm (D) x 46 cm (W) x 16 cm (H)
	Enclosure Material	Powder Coated Aluminum
	Power Supply	Universal 100 - 260 VAC - 50/60 Hz
Chamber	Dimensions	19 cm (D) x 19.5 cm (W) x 7.5 cm (H)
	Volume	1 Liter Effective Working Volume
	Material	Insulated Plastic
		8.4 kg
Weight	Power Supply	12 Volt DC @ 1A
Probe Power Supply	Port Total	3 Ports
Probe Ports	Standard	12.5 mm, 19 mm and 25 mm
Probe Port Sizes	Custom	6 mm to 32 mm

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