

Model 2000 SP



Port For Chilled Mirror

GENERAL SPECIFICATION

Power Supply	Universal 100 - 260 V AC - 50/60 Hz	
Controlled Range	Temperature	5-55°C ¹
	Humidity @23°C	5 to 95% RH ²
	Humidity @30°C	5 to 80% RH ²
	Humidity @35°C	5 to 70% RH ²
	Humidity @40°C	5 to 60% RH ²
Calibration System Accuracy	Humidity @50°C	5 to 50% RH ²
	RH and Temp	±1.0% RH and ± 0.1 °C
Uniformity	Controller Type	PID Controller
	Temperature	0.1 °C
Stability	Humidity	0.3%RH @ 23 °C
	Temperature	0.05 °C
	Humidity	0.15RH @ 23 °C
Calibration Certification	Traceable to NIST	

OPERATIONAL SPECIFICATIONS

Temperature rate of change – High → Low	1.5 °C/minute (Typical)
Temperature rate of change – Low → High	5 °C /minute (Typical)
Humidity rate of change – High → Low	5 % RH/minute (Typical)
Humidity rate of change – Low → High	10 % RH/minute (Typical)

CONTACT US:

STANDARD FEATURES

Water	Reservoir	350 mL
	Spill Resistant	Yes
	Water Quality	Distilled Water
	Est Refill Period	1 Month *Typical
	Fill Indicator	Front Panel
Desiccant	Type	Molecular Sieve

MECHANICAL / ELECTRICAL

Generator	Dimensions	460mm(W)x385mm(D) x 235mm (H)
Chamber	Dimensions	200 mm (Depth) x 145 mm (Diameter)
	Volume	2 Liter Effective Working Volume
Weight		12 kg
Probe Power Supply	Power Supply	12 Volt DC @ 1A
Probe Ports	Port Total	4 Ports, 5 Ports, 6 Ports
	Standard	Port sizes: Plug, 0.125 in, 0.25 in, 0.375 in, 0.5 in, 0.625 in, 0.75 in and 0.875 in
Standard Calibration Doors		

Key Features

1. Resolution of 0.01°C and 0.01%Rh
2. Rapid humidity and temperature settling time for highly accurate calibration
3. Supports on-site, multi-point calibration for humidity probes
4. Versatile design accommodates a large workload
5. Compact size and lightweight for easy transport
6. Factory calibration Transfer standard included and optional ISO17025 accredited calibration available
7. Reliable and easy to maintain

Ordering Information

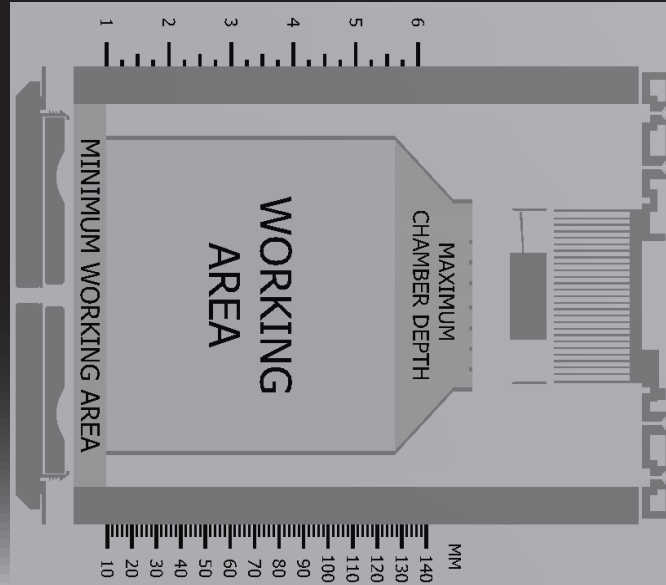
Standard Supply Package

Square 6-Port Door	Desiccant Canister	Fill Syringe with Extension Tube
5 Grommets (1/4", 3/8", 1/2", 3/4", 7/8")	Mains Power Cord (2 Meter)	ISO 17025 Accredited Internal Standard
115/230 V AC 50/60 Hz		

Accessories

Doors	Shape	Port Quantity		Connector Type				Part Number
	Square	6-Port Door		M36/PG29 Connectors				01-001-00-0017
	Round	6-Port Door		M36/PG29 Connectors				01-001-00-0018
	Square	6-Port Door		Slimline Connectors				01-001-00-0024
	Round	6-Port Door		Slimline Connectors				01-001-00-0025
Grommets	Port Type	Size (in)	Size (mm)	Part Number	Port Type	Size (in)	Size (mm)	Part Number
	M36/PG29	0.000"	0.000	01-004-09-0001	SLIMLINE	0.125"	3.175	01-004-09-0020
	M36/PG29	0.125"	3.175	01-004-09-0002	SLIMLINE	0.250"	6.350	01-004-09-0021
	M36/PG29	0.250"	6.350	01-004-09-0003	SLIMLINE	0.375"	9.525	01-004-09-0022
	M36/PG29	0.375"	9.525	01-004-09-0004	SLIMLINE	0.500"	12.700	01-004-09-0023
	M36/PG29	0.500"	12.700	01-004-09-0005	SLIMLINE	0.625"	15.875	01-004-09-0024
	M36/PG29	0.625"	15.875	01-004-09-0006	SLIMLINE	0.750"	19.050	01-004-09-0025
	M36/PG29	0.750"	19.050	01-004-09-0007	SLIMLINE	0.825"	20.955	01-004-09-0026
	M36/PG29	0.875"	22.225	01-004-09-0008	SLIMLINE	1.000"	25.400	01-004-09-0027
	M36/PG29	1.000"	25.400	01-004-09-0009				
Expanded Vol	Description			Usable Vol:	Width	Depth	Height	Part Number
	Expansion Chamber				228mm	200mm	355mm	01-051-00-0000
	Precision Expansion Chamber				220mm	286mm	345mm	01-054-00-0000
Assorted	Description			Part Number	Description			Part Number
	Desiccant Canister			01-200-11-0001	Insert			01-200-08-0025
	Desiccant Holder			01-200-01-0013	Insert with Fan			01-200-08-0026

Accuracy Tests Conducted Model 2000 Series Product Line



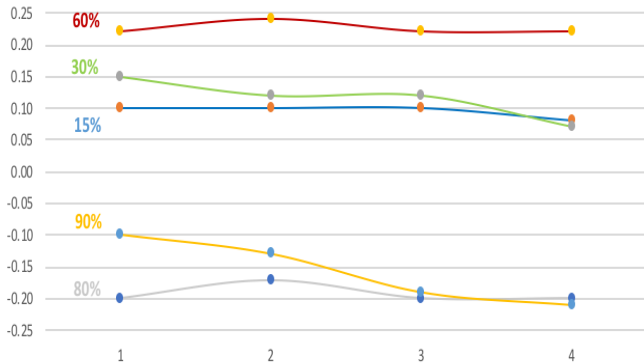
Test Results and Supporting Charts

Chamber temperature	Chamber humidity range	Humidity specification	Temperature specification
23 °C	5 % to 80 % RH > 80 % to 95 % RH	± 0.30 % RH ± 0.35 % RH	± 0.05 °C ± 0.06 °C

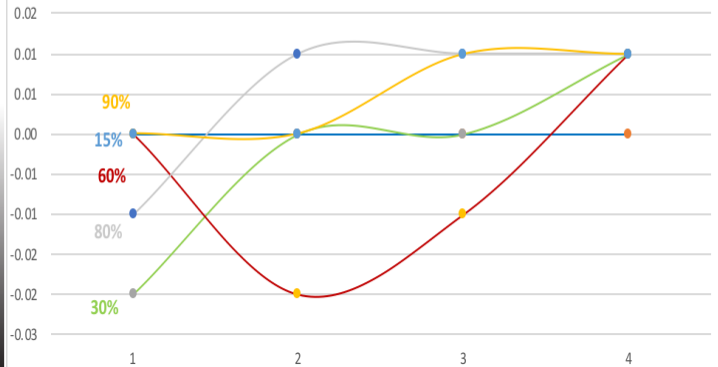


CONTACT

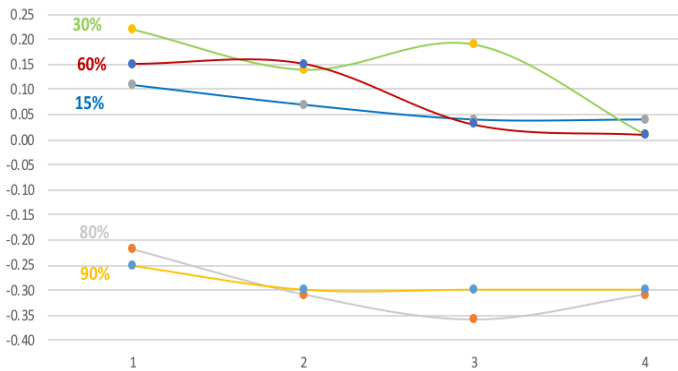
4 Readings from Different Probe Positions at **Maximum Line** with Offset Correction (**Accuracy of ± 0.25**)



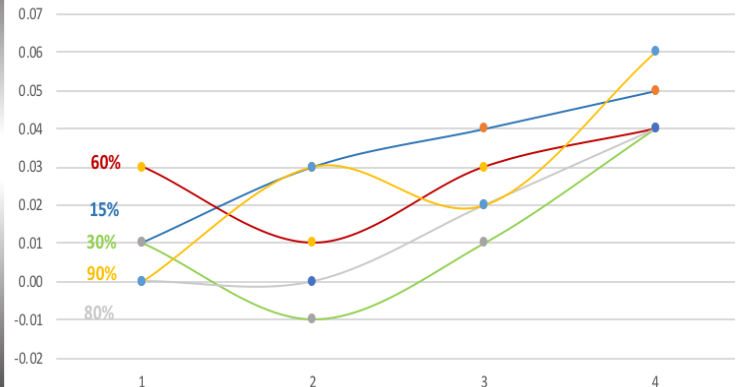
4 Temperature Readings from Different Probe Positions at **Maximum Line** with Offset Correction (**Accuracy of ± 0.02**)



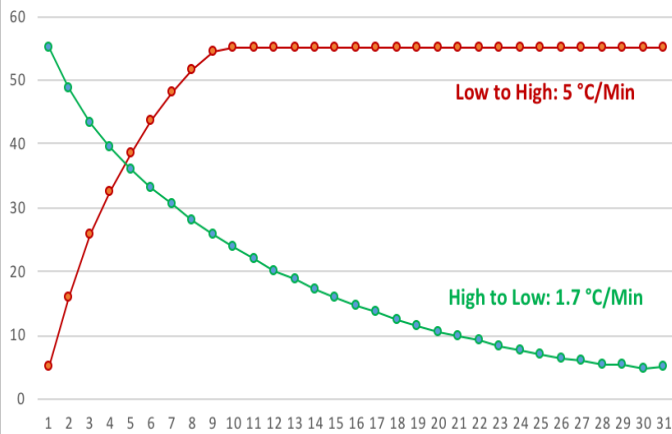
4 Humidity Readings from Different Probe Positions at **Minimum Line** with Offset Correction (**Accuracy of ± 0.35**)



4 Temperature Readings from Different Probe Positions at **Minimum Line** with Offset Correction (**Accuracy of ± 0.06**)



Chamber Response Time for Temperature



Chamber Response Time For Humidity

