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## LHG 2000

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The Model LHG 2000 Relative Humidity Calibrator is a low-cost, high-precision alternative to relative humidity calibrations using refrigerated mirrors or 2-pressure systems, and is faster than procedures using saturated salts. The system incorporates advanced electronics and innovative approaches that result in an overall improvement in performance and reliability.

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### APPLICATIONS

Calibration Laboratories  
Testing Labs  
Universities / R&D  
Pharmaceutical/ Biotech Industry  
Food Industry

### HIGHLIGHTS

Portable and durable  
Suitable for regular transport  
Economical High precision and performance  
Relative humidity accuracy +/- 1.0%RH at 23°C  
Temperature accuracy +/- 0,1°C

#### General Information

Portable and durable, suitable for regular transport

Economical High precision and performance

Relative Humidity range 5 to 95%RH

Relative Humidity accuracy  $\pm 1.0\%$ RH at 23°C

Temperature range from 5°C to 55°C

Temperature accuracy:  $\pm 0,1^\circ\text{C}$

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### Technical Data

Operating Temperature Range(°C)	-5°C to 55°C
Relative Humidity Range:	5 to 95%RH
Relative Humidity accuracy	1.0%RH at 23°C
Stability Humidity	0.15%RH @ 18°C to 28°C
Uniformity Humidity	0.30%RH @ 18°C to 28°C or better / typically $\pm 0.25$ %
Temperature range	from 5°C to 55°C
Temperature accuracy	0,1°C
Stability temperature	0.05°C
Uniformity Temperature	0.10°C or better / typically $\pm 0.05$ °C
Warm-Up Time	Ambient Condition: 30 Minutes Maximum/ Cold: 30 Minutes
Housing and assembly	Portable
Resolution Display / USB	Temperature 0.01°C Humidity 0.01%RH Dew Point 0.01°C (Calculated)
Calibration System Accuracy	Temperature $\pm 0.10$ °C or better / typically $\pm 0.05$ °C Humidity $\pm 1.00$ %RH or better/ tuned systems can be as good as $\pm 0.60$ %RH Controller Type; PID Controller

### Mechanical

Generator Dimensions	Width 55.33 cm Depth 40.65 cm Height 24.65 cm
Chamber Dimensions	Diameter 14.50cm Depth 20cm
Working Dimensions	Diameter 12.50cm Depth 10,90 cm
Volume	1.5 Liter Effective Working Volume
Weight	15,5 KG
Power Supply	12 Volt DC @ 1A
Standard Port	6 Ports. Optional: 4 Ports, 2 Ports, 4 Ports chilled mirror
Chiled Mirror port	In and Out
Probe Analog outputs Available	0 - 1 Volt



### Standard delivery:

Humidity Generator, Square 6 Port Door  
Desiccant Canister, Fill Syringe  
Accessories kit, 7 Grommets, Mains power cord  
Calibration documents and instruction manual

### Consumables

Water reservoir 200 ml . Only Distilled Water Only  
Desiccant type Molecular Sieve  
Recalibration Frequency Once Per Year Recommended

### Optional

Pelican transport case  
ISO17025 Accredited calibration  
Standard expansion chamber 22 x 28,6 x 34,5 cm  
Other Doors & Grommets