

Relative Humidity Chamber

Specifications:

A NIST-traceable relative humidity generator with a calibration chamber is needed for effective calibrations of relative humidity sensors, probes, pressure sensors, accelerometers, and microphones. The test chamber shall provide temperature uniformity of better than 0.2⁰C. The system shall be portable with maximum dry weight of seventy pound (31.7515 kg). The system shall provide analog and digital outputs (preferably RS232) to facilitate data logging and recording. The test data is to be imported into standard spreadsheet programs such as Excel. Other required features are:

Features

- Overall Dimensions shall not be more than 24" x 20" x 12"
- Shall have Integrated Chilled Mirror & Platinum RTD for constant monitoring.
- Precision: $\pm 0.2\%$ RH Stability
- Accuracy: $\pm 1\%$ RH from 10-70% RH and $\pm 1.5\%$ RH from 70-90% RH
- Versatile: 10 to 90% RH with minimum temperature range at 20 to 30°C
- Integral Desiccant and Water Reservoir
- Fast Response: 10 Minutes for 63% Step Change and 30 Minutes to Full Stability
- Quality Stainless Steel Construction
- Instant-on Fittings for External Dry Air, Circulation of Temperature Controlled Water and Reservoir Drain
- Shall be able to Several %RH Instruments at Once