



CALIBRATION ROOMS / WALK-INS

ON-SITE CALIBRATION ROOMS: PRECISE CONTROL WITH CHILLED MIRROR ACCURACY

Parameter Generation & Control, in partnership with EdgeTech, provides custom rooms and large volume calibration chambers that combine the quality and durability of the Parameter line with the proven technology of the EdgeTech hygrometer. These rooms are utilized for large volume calibrations requiring humidity and temperature control within very narrow tolerances.

When specific conditions are required, accuracy, constancy and uniformity of an atmosphere must be considered. EdgeTech provides an accurate humidity and temperature measurement, while Parameter maintains a precise control constancy and chamber uniformity.

Parameter’s walk-ins are customized to your specifications and can be arranged with various shelving configurations. Cable ports, windows, and HEPA filtration are also available.

CUSTOM DESIGN

Parameter designs and manufactures rooms in our North Carolina facility to operate at the specific requirements and exact sizes you’ve specified. To insure product integrity, Parameter assembles and thoroughly tests all systems prior to shipment

Specifications

CALIBRATION ROOMS

Relative Humidity Control: $\pm 0.3\%$
Relative Humidity Uniformity: $\pm 0.5\%$ at 25°/60%
Dew Point Accuracy: $\pm 0.2^{\circ}\text{C}$
Relative Humidity Range: 10 to 90%

Temperature Control: $\pm 0.2^{\circ}\text{C}$
Temperature Uniformity: $\pm 0.3^{\circ}\text{C}$ at 25°/60%
Temperature Accuracy: $\pm 0.2^{\circ}\text{C}$
Temperature Range: 7 to 60°C
(Below freezing available)

DIMENSIONS

Rooms configured in one (1) foot increments



and provides complete installation and on-site start-up instruction anywhere in the world. Parameter is fully capable of upgrading any brand of existing rooms. Due to the flexibility of the Parameter conditioning systems we can also condition your existing rooms.

Rooms are built using modular insulated panels with either a 32 R-value (four inch) or a 40 R-value (five inch) to maximize efficiencies and uniformity. We can provide options for stainless steel construction, dryers, and air and water filters if needed.

WE OFFER A COMPLETE PACKAGE:

- We **manufacture** your room or chamber to operate at you specific requirement at the exact size you need. Systems can automatically cycle conditions for running profiles.
- Complete **installation** on site anywhere in the world.
- **On-site** start-up instruction.
- PC based **monitoring** systems comes standard with each unit. System monitors temperature, relative humidity, saturator, and mechanical outputs.
- **Calibration** and **PM** contracts.

RH VARIABLES	OURS	THEIRS
TOTAL	± 2.5%	± 6.0%
CONTROL CONSTANCY	± 0.5%	± 2.0%
CHAMBER UNIFORMITY	± 1.0%	± 2.0%
SENSOR ACCURACY	± 1.0%	± 2.0%

Extremely Precise Control
Low Energy Requirements
Low Maintenance

Benefits

- Reduces uncertainty
- Easy to provide NIST recertification
- Proven methodology
- Extremely stable and uniform environment
- Reliable data
- Worry-free operation

Features

- Precise chamber control
- Rack-mounted hygrometer
- Hygrometer utilizes primary measurement technique
- Long proven and unsurpassed humidity control system
- Highly accurate NIST traceable sensor
- Sensing system discriminates between dew and contaminants

SmartPad Microprocessor

Parameter's SmartPad microprocessor controller is a user-friendly system that provides optimum accuracy and control. The SmartPad is equipped with direct readings in both temperature and humidity. It features 60-segment programming for automatic cycling and ramping and soaking excursions. High-low or deviation alarms and digital communications ports are standard features.

All Parameter equipment is exhaustively tested at your specified condition prior to shipping to ensure trouble-free operation.