

RH Calibration Chambers



Precise Control with Chilled Mirror Accuracy

PGC and EdgeTech provide large volume calibration chambers that combine the quality and durability of the PGC line with the proven technology of the EdgeTech hygrometer. These chambers are utilized for large volume calibrations, and testing/quality control applications 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 PGC maintains a precise control constancy and chamber uniformity.

Reach-in systems are equipped with a window in the outer door, a clear inner door, an iris opening (for making adjustments without an inner door opening), and a cable port.

Walk-ins can be custom sized and arranged with various shelving configurations. Cable ports, windows, and HEPA filtration are also available.

All units are equipped with a SmartPad controller which includes automatic ramping, alarms, and a digital communications port.



4.5 cubic foot unit (shown with optional base cabinet and recorder)

Controlled Spaces from
4.5 to 1000 Cubic Feet

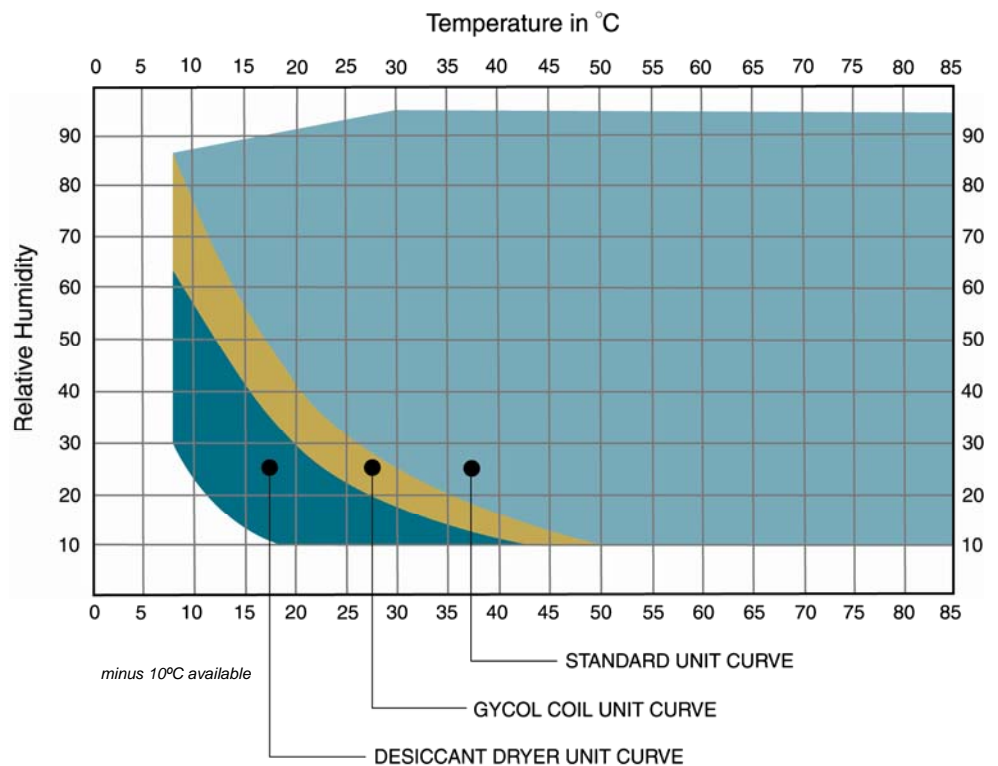


30 cubic foot unit



10' x 10' room with 700 CFM conditioner

Performance Curve



SPECIFICATIONS

4.5 Cubic Foot Model Series 9540 (EC4)

Relative Humidity Control: $\pm 0.3\%$
Relative Humidity Uniformity: $\pm 0.5\%^*$
Dew Point Accuracy: $\pm 0.2^\circ\text{C}$
Relative Humidity Range: 10 to 95%
See chart on page 1
**at 25°C/50% RH*

Temperature Control: $\pm 0.2^\circ\text{C}$
Temperature Uniformity: $\pm 0.3^\circ\text{C}^{**}$
Temperature Accuracy: $\pm 0.2^\circ\text{C}$
Temperature Range: 7 to 85°C
Minus 10 option available
***within 15 degrees of ambient*

Dimensions

Internal: 18"w x 18"d x 24"h
External: 41"w x 29"d x 46"h*
**75"h with optional base cabinet*

Utilities

115 v, 16 FLA, 1 phase, 60 Hz (Available in other voltages at 50 Hz)
Water: 2 gallons per day maximum (can be manually refilled without hard piping)
Drain: Hard piped or evaporation pan

Weight

600 lbs.

Shipping Weight

800 lbs. (domestic)

Engineering drawings available on request

SPECIFICATIONS

30 Cubic Foot Model Series 9530 (EC30)

Relative Humidity Control: $\pm 0.3\%$
Relative Humidity Uniformity: $\pm 0.5\%^*$
Dew Point Accuracy: $\pm 0.2^\circ\text{C}$
Relative Humidity Range: 10 to 95%
See chart on page 1
**at 25°C/50% RH*

Temperature Control: $\pm 0.2^\circ\text{C}$
Temperature Uniformity: $\pm 0.3^\circ\text{C}^{**}$
Temperature Accuracy: $\pm 0.2^\circ\text{C}$
Temperature Range: 7 to 85°C
Minus 10 option available
***within 15 degrees of ambient*

Dimensions

Internal: 34-1/2"w x 28-1/2"d x 53"h
External: 53-1/2"w x 42-1/2"d* x 79"h
**36"d without hardware*

Utilities

230 v, 15 FLA, 1 phase, 60 Hz (Available in other voltages at 50 Hz)
Water: 3 gallons per day maximum (can be manually refilled without hard piping)
Drain: Hard piped or evaporation pan

Weight

1150 lbs.

Shipping Weight

1400 lbs. (domestic)

Engineering drawings available on request

SPECIFICATIONS

Rooms

Relative Humidity Control: $\pm 0.3\%$
Relative Humidity Uniformity: $\pm 0.5\%^*$
Dew Point Accuracy: $\pm 0.2^\circ\text{C}$
Relative Humidity Range: 10 to 90%
See chart on page 1
**at 25°C/50% RH*

Temperature Control: $\pm 0.2^\circ\text{C}$
Temperature Uniformity: $\pm 0.3^\circ\text{C}^{**}$
Temperature Accuracy: $\pm 0.2^\circ\text{C}$
Temperature Range: 7 to 60°C
Below freezing available
***within 15 degrees of ambient*

Dimensions

Rooms configured in 1 foot increments

Utilities

Varies on room size and condition range.
Call for specific application.

FEATURES

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

BENEFITS

1. Reduces uncertainty
2. Easy to provide NIST recertification
3. Proven methodology
4. Extremely stable and uniform environment
5. Reliable data
6. Worry-free operation



Parameter Generation & Control, Inc.

PO Box 129
1054 Old US 70 West
Black Mountain, NC 28711
Website: www.humiditycontrol.com
Email: sales@humiditycontrol.com
Phone numbers:
(800) 438-5494
(828) 669-8717