

# PARAMETER GENERATION & CONTROL

## PRECISE HUMIDITY CONTROL SYSTEMS

# 4.5 CUBIC FOOT CHAMBER

*An unsurpassed RH  
control of  $\pm 0.5\%$ .*

The PGC 4.5 cu. ft. chamber features our unique humidity control system that enables the user to attain unsurpassed levels of RH/temperature control and uniformity.

These test chambers are designed to accurately produce those temperature and humidity conditions required for applications such as stability studies, package testing, TAPPI, MIL-SPEC, and vapor transmission.

Applications are found in such diverse industries as pharmaceutical development and manufacturing, electronic components, food, semiconductor, paper and pulp, and wherever precise humidity and temperature replications are required.

Additionally, PGC's SmartPad micro-processor 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 also features 60-segment programming for automatic cycling and ramping and soaking excursions. High-low or deviation alarms as well as digital communications ports are standard features.

The interior chamber is constructed of very durable, corrosion resistant 316 stainless steel. Low watt density heaters are used that also contribute to the unit's longer life.

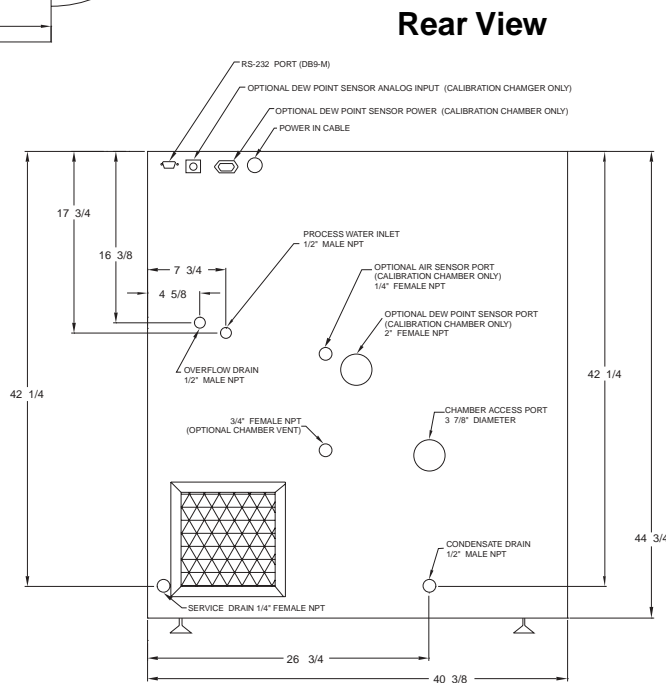
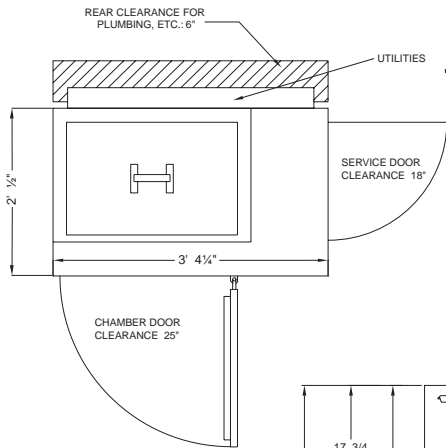
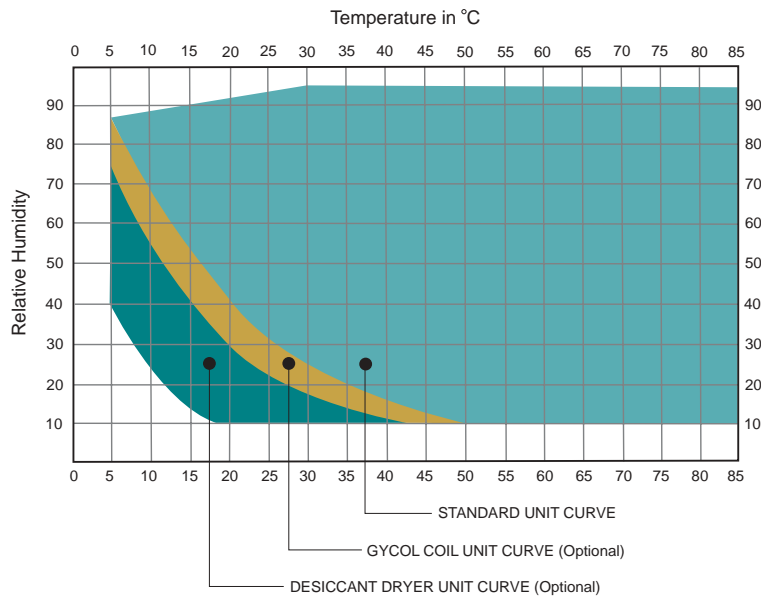


Pictured with optional window and chart recorder

Should your application require it, the chamber airflow can be factory-configured from the standard horizontal flow to vertical. Other options include extended ranges, chart recorders, a window in the outer door, and a clear inner door with optional iris opening.

Lastly, all PGC equipment is exhaustively tested at your specified condition before being shipped to ensure trouble-free operation.

RH Variables	PGC, Inc.	Competition
Control Constancy	$\pm 0.5\%$	$\pm 2.0\%$
Chamber Uniformity	$\pm 0.5\%$	$\pm 2.0\%$
Sensor Accuracy	$\pm 1.0\%$	$\pm 2.0\%$
Total	$\pm 2.0\%$	$\pm 6.0\%$



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## SPECIFICATIONS

### Series 9140

Relative Humidity Range: 10 to 95%  
(limited by a 4°C dewpoint)  
Relative Humidity Constancy:  $\pm 0.5\%$   
Relative Humidity Uniformity:  $\pm 0.5\%$

Temperature Range: 5 to 85°C  
Temperature Constancy:  $\pm 0.1^\circ\text{C}$   
Temperature Uniformity:  $\pm 0.2^\circ\text{C}$

### Utilities

115v, 16 FLA, 1 phase, 60 Hz  
220v, 12 FLA, 1 phase, 50 Hz  
Higher voltages are also available  
Refrigeration Unit: Fractional HP  
utilizing non-ozone depleting gas

### External Chamber Dimensions

41" w x 29" d x 46" h (nominal)  
75" high with optional base cabinet

### Internal Chamber Dimensions

18" w x 18" d x 24" h (nominal)

### Weight

590 lbs.

### Shipping Weight

790 lbs.

## FEATURES

- RH control constancy of  $\pm 0.5\%$
- Temperature control constancy of  $\pm 0.1^\circ\text{C}$
- Various safety cut-offs
- 316 stainless interior chamber
- User-friendly and unit-specific digital controller

## BENEFITS

- Extremely stable and uniform environment
- Maintains superior constancy and uniformity
- Security and safety
- Equipment longevity; corrosion resistant
- Ease of operation