

# PARAMETER GENERATION & CONTROL

## PRECISE HUMIDITY CONTROL SYSTEMS

# W WALK-IN ROOMS

### *Superb humidity control and uniformity*

PGC has been providing high quality walk-in chambers since the mid-1970's. These environmental chambers have applications in diverse disciplines such as pharmaceutical stability testing, TAPPI and ASTM testing, biological and biotechnological research, electronics, and many other applications.

Our many years of experience in designing, manufacturing and installing walk-in rooms enable us to provide the user with unparalleled expertise. PGC's staff will assist in planning your room to meet your specific needs.

PGC will provide sole-source responsibility for both room construction and its conditioning equipment. Using modular insulated panels having either a 32 R-value (four inch) or a 40 R-value (five inch), enables PGC to deliver maximum efficiencies and uniformities.

More importantly, utilizing PGC's unique method of controlling moisture in air, the rooms are able to attain unmatched levels of humidity and temperature control and uniformity. Unlike many other manufacturers, PGC's humidity methodology does not

use vapor generators or atomizers as a humidity source. A dew point generating system achieves superior levels of humidity performance. The PGC SmartPad controller is a user-friendly system that provides optimal control for the PGC conditioning units. The SmartPad is equipped with direct readings in both temperature and humidity. It also features 60-segment programming for automatic cycling and also ramping and soaking excursions. High-low or deviation alarms are standard as well as a serial communications port.

Having designed, built, and installed a wide variety of walk-in environmental rooms for nearly three decades, makes PGC an ideal source for planning and designing your walk-in chamber. To further insure product integrity, PGC also assembles and thoroughly tests all systems before shipment. PGC is fully capable of upgrading any brand of existing rooms. Due to the flexibility of the PGC conditioning system, PGC can also condition existing rooms, like testing and quality control laboratories.



#### **FEATURES**

- RH uniformity to  $\pm 0.5\%$
- Temperature uniformity to  $\pm 0.5^{\circ}\text{C}$
- Multi-range rooms from  $-30^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$
- Humidity ranges from 10% to 90% RH
- Modular insulated panels
- Rooms factory-tested prior to shipment

#### **BENEFITS**

- Unsurpassed humidity performance
- Superb temperature stability
- Flexibility of operation
- Increased measurement options
- Ease of assembly
- Assurance of proper operation



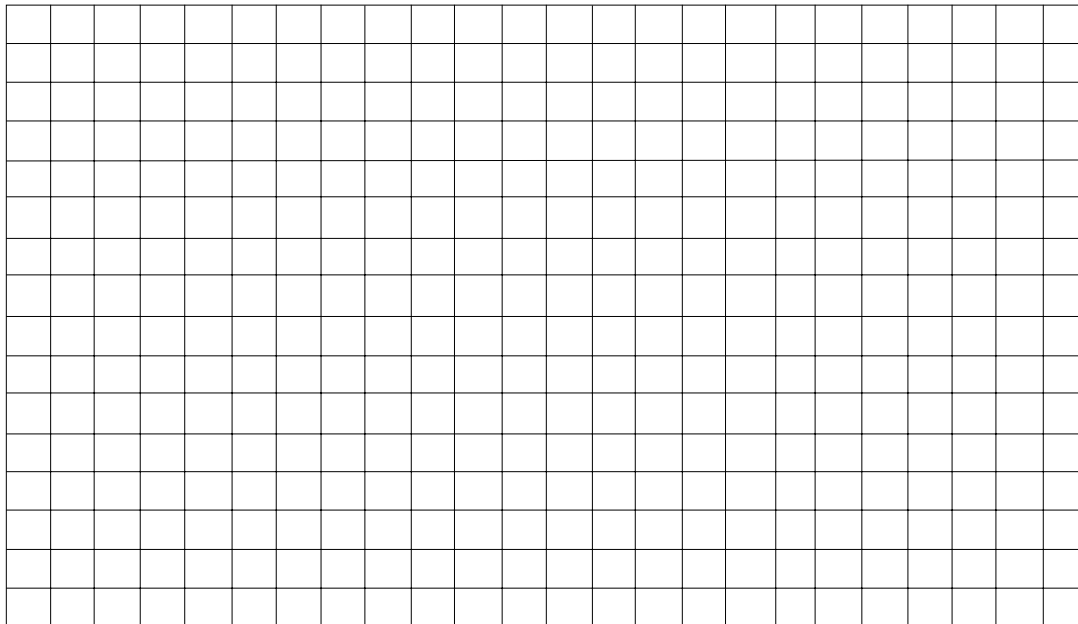
### SPECIFICATIONS

Relative Humidity Range: 10 to 90%  
(limited by a 5°C dewpoint)  
Relative Humidity Constancy:  $\pm 0.5\%$   
Relative Humidity Uniformity:  $\pm 0.5\%$

Temperature Range: -30 to 60°C  
Temperature Constancy:  $\pm 0.1^\circ\text{C}$   
Temperature Uniformity:  $\pm 0.5^\circ\text{C}$

### Optional Features

- Stainless steel room construction
- Dessicant dryer
- HEPA-filtered air supply
- Filtered return air grills



**Use this grid to sketch your room layout.**



Parameter Generation & Control, Inc.  
P.O. Box 129  
Black Mountain, NC 28711

Phone us: 828-669-8717 / 1-800-438-5494  
Fax us: 828-669-6928  
Email us: [sales@humiditycontrol.com](mailto:sales@humiditycontrol.com)  
Visit us: [www.humiditycontrol.com](http://www.humiditycontrol.com)