



GENEVA SCIENTIFIC
LAB EQUIPMENT SOLUTIONS

REACH IN PLANT GROWTH CHAMBER - PGC-9



Model	PGC-9
Exterior Dimensions (WxDxH)	75.8" x 37.8" x 79.3"
Temp. Range (w/ lights on)	7-44±0.5
Interior Space	67.6 cu.ft. total (34.8 cu. ft. per compartment)
Total Shelving Floor Area	22.2 sq.ft. total (11.1 sq.ft. per compartment)
Maximum Growing Height	27.8"
Light Intensity (6" from lamps)	660 micromoles/m2/sec
Number of Tiers	1 tier per compartment

Applications

- *This chamber is frequently used for Alfalfa/forages, peanut, potato, bluegrass, short term plant growth and/or short plants
- *Many other applications exist for this product

Percival's IntellusUltra Controller

- *The IntellusUltra control system (C8) was purpose-built for controlled environments and is standard on all Percival chambers.
- *Robust and reliable, industrial-grade integrated hardware design
- *Highly flexible architecture facilitates configuration, expansion and customization
- *Precise, simultaneous control of up to 7 environmental parameters
- *Industry-leading experiment protection and system diagnostics

IntellusUltra control graphical user interface

- *A touchscreen user interface is provided as standard on all Percival Scientific plant growth chambers and allows users to interact with their controlled

IntellusUltra control graphical user interface (cont.)

- environment in new and intuitive ways.
- *10.1" IPS, high resolution display with 10-point multi-touch sensitivity
- *Tabular and graphical presentation of chamber programs and parameters
- *Highly visible process values and alarm notifications
- *Enhanced user feedback menus

SciWhite LED Lighting System

- *One tier of lighted shelving lit by SciWhite LEDs
- *Intensity programmable up to 660 μmoles/m2/s of light irradiance measured @ 6" from LEDs
- *Programming and control of the lighting is done via IntellusUltra real time controller
- *Dimmable between 10-100% output

Airflow/Circulation

- *Conditioned air moves in uniform upward direction through entire work bench through perforations in aluminum channels

REACH IN PLANT GROWTH CHAMBER - PGC-9/2

Insulation

*Woodless construction using foam-in-place 2" [5.1 cm] thick CFC free urethane insulation foam (this is an environmentally friendly foam with global warming potential [GWP] of 0.0 and ozone depletion potential [ODP] of 0.0)

Cabinet Construction

*Interior constructed of 24-gauge galvanized steel
*Interior floor constructed of 22-gauge polished stainless steel
*Exterior constructed of 24-gauge Galvannealed extra-smooth steel
*Overall wall thickness is 2" (5.1 cm)
*Integrated floor drain
*Contains casters assembly and adjustable leveling legs
*One access port per compartment, two total per chamber
*Highly durable and reflective coating

Doors

*Two doors each with an opening of 29.1" x 26.1" (magnetic gasket provides a tight seal to door frame)

Interior Space

*34.8 cu.ft. usable volume with work area of 11.1 sq.ft. provided on one tier (per compartment)

Refrigeration

*Air-cooled condensing unit with hot gas bypass system for continuous compressor operation, extended life and tight temperature control. Continuous running condensing unit ensures precise temperature control by alternately cycling refrigerant and hot gas to coil; also prolongs compressor life, and eliminates risk of ice build up in coil.
*Extended stem solenoid valves for quiet and long life operation
*Heat rejection to the ambient (standard refrigeration system) = 3,239 BTU/hr.

Temperature Range

*2°-44°C ($\pm 0.5^\circ\text{C}$) lights off and 7°-44°C ($\pm 0.5^\circ\text{C}$) lights on (full fresh air) within work area on horizontal plane with lights on

Temperature Safety Limit Controls

*Experiment Protection: Adjustable high and low temperature controls, audible alarms, and visual indicators provided
*Controls shut down all power to chamber, activating alarms (when the temperature returns to the normal range the system will automatically reset)

Electrical Requirements

*Consult Geneva Scientific for electrical requirements and amperage draw.

Options

*Additive Humidity Control with Sensor
*Dehumidifier with Sensor
* CO2 Enrichment Package
*IntellusUltra Connect
*Door with Observation Window and Cover
*Self-Contained Water-Cooled Condensing Unit
*Dry Alarm Contacts
*Security Package
*Additional Shelvin
*Convenience Receptacles



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