



GENEVA SCIENTIFIC

LAB EQUIPMENT SOLUTIONS

REACH IN PLANT GROWTH CHAMBER - PGC-15



Model	PGC-15
Exterior Dimensions (WxDxH)	95.3" x 38.8" x 78.8" (35.5"D with door removed)
Temp. Range (w/ lights on)	7-44±0.5
Interior Space	94.8 cu.ft.
Total Shelving Floor Area	15.1 sq.ft.
Maximum Growing Height	48"
Light Intensity (6" from lamps)	1,520 micromoles/m ² /sec
Number of Tiers	1

Applications

- *This chamber is frequently used for cereals, citrus, grapes, grasses and other plants that require high light intensity and higher growth height
- *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 1,520 μmoles/m²/s of light irradiance measured @ 6" from LEDs
- *Programming and control of the lighting is done via IntellusUltra real time controller
- *Lamp bank is vertically adjustable
- *Dimmable between 10-100% output

Airflow/Circulation

- *Conditioned air moves in uniform upward direction through entire work bench through perforations in aluminum channels
- *Fresh air inlet and outlet are adjustable

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Cabinet Construction

- *Interior and exterior constructed of 22-gauge electro-zinc plated steel
- *Stainless steel floor
- *Perforated aluminum channel work bench
- *Inner shell supported by thermal conducting insulator locking inner liner in place without a metal-to-metal bond to outer case
- *Chamber floor equipped with floor drain with attached 3/4" plastic tubing
- *Chamber cabinet is attached to angle frame base containing heavy duty swivel caster

Insulation

- *Woodless construction using foam-in-place 2" 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)

Door

- *Two reach-in doors each with an opening of 25.8" x 48.3" (magnetic gasket provides a tight seal to door frame)
- *12" x 12" (30.5 cm x 30.5 cm) observation window with a light tight cover

Interior Space

- *94.8 cu.ft. with work area of 15.1 sq.ft. provided on one tier

Refrigeration

- *Self-contained 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) = 5,202 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 Shelving
- *Convenience Receptacles

Regulatory Standards

- Electrical Safety: UL-508A, certified and labelled by Percival Scientific under UL file number E340161
- Quality System: ISO 9001:2015, certified under DQS, Inc. under certification number 10017261



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Specifications are subject to change without notice.
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