



GENEVA SCIENTIFIC
LAB EQUIPMENT SOLUTIONS

REACH IN PLANT GROWTH CHAMBER - PGC-9/2



*Shown with optional LED lighting

Model	PGC-9/2
Exterior Dimensions (WxDxH)	74.9" x 37.6" x 79.1"
Temp. Range (w/ lights on)	10-44C +/- 0.5C
Interior Space	67.6 cu.ft. total (33.8 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)	500 micromoles/m2/sec
Number of Tiers	1 tier per compartment

Applications

*Frequently used for research applications such as lighting for vascular plants to facilitate standard plant production, plant pathology research and seedling germination and development

*Many other applications exist for this product

Percival's IntellusUltra Controller

Percival Scientific has built a reputation of providing flexible, customized options for research scientists around the world. We've taken that philosophy to the next level with our improved IntellusUltra controller. Now choose from the levels of functionality that meet your research needs.

Lighting System

*Balanced spectrum for plant growth using fluorescent and incandescent lamps

*Maximum light intensity of 500 micromoles/m2/sec of light irradiance measured @ 6" from lamps

*Two fluorescent and one incandescent lighting events provide multiple lighting levels

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 casters

Airflow/Circulation

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

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)

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Doors

*Two reach-in doors (one per compartment) each with an opening of 26.1" x 21.9" (magnetic gasket provides a tight seal to door frame)

Interior Space

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

Finish

*Interior and exterior painted with high reflective, environmentally friendly, high temperature baked white powder coating

Refrigeration

*Self-contained air-cooled condensing unit with hot gas bypass system for continuous compressor operation, extended life and close temperature control (this continuous running condensing unit ensures precise temperature control by alternating cycling refrigerant and hot gas to coil; this also prolongs life of compressor, and eliminates risk of ice build up in coil)

*Solenoid valves have extended stem for quiet and long life operation

*Heat rejection to ambient (standard refrigeration system) with air-cooled condensing unit = 4800 BTU/hr

Temperature Range

*2-44C (+/- 0.5C) with lights off and 10-44C (+/- 0.5C) with lights on (full fresh air) within work area on horizontal plane

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)

Convenience Receptacles

*One 120/1/60 convenience receptacle provided inside each compartment

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

*Android-Based Touch Screen

*Door with Observation Window and Cover

*Self-Contained Water-Cooled Condensing Unit

*Dry Alarm Contacts

*Security Package

*Temperature Recorder

*External Drip Pan Assembly

*Additional Shelving



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Specifications are subject to change without notice.
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