



GENEVA SCIENTIFIC

LAB EQUIPMENT SOLUTIONS

REACH IN PLANT GROWTH CHAMBER - PGC-40L2



| | |
|---------------------------------|-------------------------|
| Model | PGC-40L2 |
| Exterior Dimensions (WxDxH) | 100.5" x 40.6" x 111.1" |
| Temp. Range (w/ lights on) | 10-44C +/- 1.0C |
| Interior Space | 147.9 cu.ft. |
| Total Shelving Floor Area | 36.7 sq.ft. |
| Maximum Growing Height | 30.2" |
| Light Intensity (6" from lamps) | 900 micromoles/m2/sec |
| Number of Tiers | 2 |

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

*Intensity programmable up to 900 micromoles/m2/sec of light irradiance measured at 6" from lamps on 4 on/off light events

*Lamp provides balanced spectrum for plant growth using T-5 fluorescent lamps plus extended life tungsten incandescent lamps

Lighting System cont.

*Two light fixtures per tier

*Programming and control of the lighting is done via IntellusUltra real time controller

Airflow/Circulation

*Uniform air circulation moves across each shelf through air diffusers on the rear wall

*Air travels along the entire back wall, over the shelves and returns to the ceiling fans through an opening between the light fixture and the door

Cabinet Construction

*Chambers built in panel sections each consisting of 2" thick urethane insulation

*Cam-type fasteners and vinyl gaskets

*Interior and exterior constructed of 22-gauge electro-zinc plated steel

*Stainless steel floor

*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

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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)

Doors

*Two reach-in doors each with an opening of 29.3" x 57.3" (magnetic gasket provides a tight seal to door frame)

Interior Space

*147.9 cu.ft. with work area of 36.7 sq.ft. provided on two tiers

Finish

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

Refrigeration

*Self-contained water-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 the ambient (standard refrigeration system) with water-cooled self-contained condensing unit = 2500 BTU/hr

*Optional outdoor all weather air-cooled condensing unit

Temperature Range

*2-44C (+/- 0.5C) lights off and 10-44C (+/- 0.5C) 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

*Two convenience receptacles provided inside chamber

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

*Dry Alarm Contacts

*Security Package

*Temperature Recorder



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