



GENEVA SCIENTIFIC
LAB EQUIPMENT SOLUTIONS

REACH IN PLANT GROWTH CHAMBER - E-41L2



Model	E-41L2
Exterior Dimensions (WxDxH)	41" x 33.6" x 77.2"
Temp. Range (w/ lights on)	10-44C +/- 0.5C
Interior Space	37.2 cu.ft.
Total Shelving Floor Area	13.6 sq.ft.
Maximum Growing Height	20.6"
Light Intensity (6" from lamps)	650 micromoles/m2/sec
Number of Tiers	2

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

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

Lighting System

*Each tier of shelves is lighted by cool white fluorescent lamps and incandescent lamps properly spaced for uniform light intensity

*Intensity programmable up to 650 micromoles/m2/sec of light irradiance measured at 6" from lamps on 3 on/off light events

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

Airflow/Circulation

*Air circulation inside chamber is from a specifically designed air diffuser (air travels along the entire back wall, over the shelves and returns to the ceiling fans through an opening between the light fixtures and the doors)

Cabinet Construction

*26-gauge smooth galvanized white side walls and top reinforced with 24-gauge backer plates

*Interior floor constructed of 24-gauge #304-4 stainless steel

*24-gauge smooth white galvanized white exterior

*NSF compliant seam design

*Overall wall thickness 2"

*Foamed-in-place non-CFC insulation

*One 1 1/4" diameter access port on right hand wall

*Chamber floor equipped with floor drain and hose assembly

*Contains casters assembly and adjustable leveling legs to compensate for floor unevenness in the lab

Insulation

*Woodless construction using 2" thick foamed-in-place non-CFC Urethane insulation with 93% closed cell, R-value of 12.5, K-value of 0.16 and density of 2.2 lbs/cu. ft.

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Door

*One door opening of 36.75" x 57.5" providing full access to chamber interior (magnetic gasket provides a tight seal to door frame)

Interior Space

*37.2 cu.ft. with work area of 13.6 sq.ft. provided on two tiers

Shelving

*Two tiers of white epoxy coated steel wire shelving (each shelf is 27"D x 36.3"W)

*Shelves are supported by shelf clips allowing 1/2" vertical adjustments

*Maximum clearance between shelves is 20.6" per tier with both shelves installed

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

*Ceiling mounted evaporator coil incorporates twin air circulation fans in aluminum housing (heat rejection to ambient with standard chamber: 5900 BTU/hr)

Temperature Range

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

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 120/1/60 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

*IntellusUltra Connect

*Android-Based Touch Screen

*CO2 Enrichment Package

*Self-Contained Water-Cooled Condensing Unit

*Dry Alarm Contacts

*Dimmable Lighting

*LED Lighting in Lieu of Fluorescent Lamps



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