GENEVA SCIENTIFIC
LAB EQUIPMENT SOLUTIONS

REACH IN PLANT GROWTH CHAMBER - E-36L1

Model	E-36L1
Exterior Dimensions (WxDxH)	33.5” x 33.6” x 77.2”
Temp. Range (w/ lights on)	10-44C +/- 0.5C
Interior Space	29.7 cu.ft.
Total Shelving Floor Area	5.4 sq.ft.
Maximum Growing Height	45.4”
Light Intensity (6” from lamps)	550 micromoles/m2/sec
Number of Tiers	1

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 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
*One tier of lighted shelving lit by cool white fluorescent lamps and incandescent lamps properly spaced for uniform light intensity
*Intensity programmable up to 550 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
*Interior constructed of 22-gauge electro-zinc plated steel
*Exterior constructed of 18-gauge exterior electro-zinc plated steel
*Welded seams and joints on outer and inner shells
*Inner shell supported by non-compressing/non-thermal conducting material locking inner liner in place without a metal-to-metal bond to outer case
*Chamber is completely self-contained

Insulation
*Woodless construction using CFC free insulation (overall wall thickness is 2”, ample insulation for maintenance of stated temperature range)

Door
*One door opening of 29.2” x 57.5” providing full access to chamber interior (magnetic gasket provides a tight seal to door frame)

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Interior Space
*29.7 cu.ft. with work area of 5.4 sq.ft. provided on one tier

Shelving
*One tier of white epoxy coated steel wire shelving (shelf is 27"D x 28.8"W)
*Shelf is supported by shelf clips allowing 1/2" vertical adjustments
*Maximum growth height is 45.4"

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: 4500 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
*One 120/1/60 convenience receptacle 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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