



GENEVA SCIENTIFIC

LAB EQUIPMENT SOLUTIONS

LED PLANT GROWTH CHAMBER - LED-30HL1



Model	LED-30HL1
Exterior Dimensions (WxDxH)	31" x 25.8" x 46.1"
Temp. Range (w/ lights on)	10-44C +/- 0.5C
Interior Space	9.7 cu.ft.
Total Shelving Floor Area	3 sq.ft.
Maximum Growing Height	22"
Light Intensity (6" from lamps)	1050 micromoles/m2/sec
Number of Tiers	1

Applications

- *This chamber is specifically designed for plant growth light quality studie and other experiments requiring specific wavelengths of light
- *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 research needs.

Lighting System

- *Standard color choices include cool white, red, far red, and blue LEDs
- *Non-standard color choices include UV, warm white, full spectrum white, and green
- *Each color is independently dimmable between 10-100%
- *Programming and control of the lighting is done via IntellusUltra real time controller

Cabinet Construction

- *Interior constructed of 22-gauge electro-zinc plated steel
- *Exterior constructed of 18-gauge exterior electro-zinc plated steel
- *Stainless steel floor
- *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, suitable for stacking one above the other

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 26.8" x 29.6" providing full access to chamber interior (magnetic gasket provides a tight seal to door frame)

Interior Space

- *9.7 cu.ft. with work area of 3 sq.ft. provided on one tier

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Shelving

- *One tier of white epoxy coated steel wire shelving (shelf is 16.5"D x 26.5"W)
- *Shelf is vertically adjustable in 1/2" increments
- *Maximum growing height is 22"

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 alternately 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
- *Rear chamber wall mounted evaporator coil incorporates an air circulation fan in aluminum housing (heat rejection to ambient in standard chamber = 1800 BTU/hr)

Temperature Range

- *10-44C (+/- 0.5C) with lights on and 2-44C (+/- 0.5C) with 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 115/1/60 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
- *Door with Observation Window with Cover
- *Door with Fresh Air Ports
- *Self-Contained Water-Cooled Condensing Unit
- *Dry Alarm Contacts
- *Extended Temperature Ranges
- *External Drip Pan Assembly



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