



GENEVA SCIENTIFIC
LAB EQUIPMENT SOLUTIONS

REACH IN PLANT GROWTH CHAMBER - E-30HO



Model	E-30HO
Exterior Dimensions (WxDxH)	31" x 23.8" x 46.1"
Temp. Range (w/ lights on)	7-44±0.5
Interior Space	9.7 cu.ft.
Total Shelving Floor Area	3 sq.ft.
Maximum Growing Height	27"
Light Intensity (6" from lamps)	1230 micromoles/m ² /sec
Number of Tiers	1

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

- *The IntellusUltra control system was purpose-built for controlled environments and is standard on all Percival chambers.
- *Robust and reliable, industrial-grade integrated hardware design
- *Highly flexible architecture facilitates configuration, expansion and customization
- *Precise, simultaneous control of up to 7 environmental parameters
- *Industry-leading experiment protection and system diagnostics

IntellusUltra control graphical user interface

- *A touchscreen user interface is provided as standard on all Percival Scientific plant growth chambers and allows users

IntellusUltra control graphical user interface (cont.)

- to interact with their controlled environment in new and intuitive ways.
- *10.1" IPS, high resolution display with 10-point multi-touch sensitivity
- *Tabular and graphical presentation of chamber programs and parameters
- *Highly visible process values and alarm notifications
- *Enhanced user feedback menus

SciWhite LED Lighting System

- *One tier of lighted shelving, lit by SciWhite LEDs
- *Intensity programmable up to 1,230 μmoles/m²/s of light irradiance measured @ 6" from LEDs
- *Programming and control of the lighting is done via IntellusUltra real time controller
- *Dimmable between 10-100% output

Insulation

- *Woodless construction using 2" thick foamed-in-place non-CFC Urethane insulation with 97% closed cell-structure density of 2.2 lbs/ft³

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Cabinet Construction

- *Interior constructed of 26-gauge galvanized steel
- *Interior floor constructed of 24-gauge polished stainless steel
- *Exterior constructed of 24-gauge Galvannealed extra-smooth steel
- *NSF-compliant seam design
- *Chamber is completely self-contained, suitable for stacking one above the other
- *Overall wall thickness is 2" (5.1 cm)
- *Highly durable and reflective coating

Door

- *One door opening of 26.8" x 29.8" 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

Shelving

- *One tier of white epoxy coated steel wire shelving (shelf is 16.5"D x 26.5"W)
- *Shelf is supported by shelf clips allowing 1/2" vertical adjustments
- *Maximum growth height is 27"

Refrigeration

- *Self-contained air-cooled condensing unit with hot gas bypass system for continuous compressor operation, extended life and tight temperature control. Continuous running condensing unit ensures precise temperature control by alternately cycling refrigerant and hot gas to coil; also prolongs compressor life, and eliminates risk of ice build up in coil.
- *Extended stem solenoid valves for quiet and long life operation
- *Rear chamber wall mounted evaporator coil incorporates an air circulation fan
- *Heat rejection to ambient (standard chamber) = 1,640 BTU/hr.

Temperature Range

- *7°-44°C ($\pm 0.5^\circ\text{C}$) lights on and 2°-44°C ($\pm 0.5^\circ\text{C}$) 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)

Electrical Requirements

- *Consult Geneva Scientific for electrical requirements and amperage draw.

Options

- *Additive Humidity Control with Sensor
- *Dehumidifier with Sensor
- *IntellusUltra Connect
- *CO2 Enrichment Package
- *Self-Contained Water-Cooled Condensing Unit
- *Dry Alarm Contacts
- *LED Lighting in Lieu of Fluorescent Lamps
- *Convenience Receptacles

Regulatory Standards

- *Electrical Safety: UL-508A, certified and labelled by Percival Scientific under UL file number E340161
- *Quality System: ISO 9001:2015, certified under DQS, Inc. under certification number 10017261



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Specifications are subject to change without notice.
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