



GENEVA SCIENTIFIC

LAB EQUIPMENT SOLUTIONS

REACH IN PLANT GROWTH CHAMBER - E-30BHO



*Shown above with optional touchscreen controller upgrade

Model	E-30BHO
Exterior Dimensions (WxDxH)	31" x 23.8" 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	24.9"
Light Intensity (6" from lamps)	950 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

*Single lamp bank consists of energy efficient fluorescent lamps and incandescent lamps

*Intensity programmable up to 950 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

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, 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 29.8" 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

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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 supported by shelf clips allowing 1/2” vertical adjustments
- *Maximum growth height is 24.9”

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
- *Rear chamber wall mounted evaporator coil incorporates an air circulation fan (heat rejection to ambient with standard chamber: 4700 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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