



# GENEVA SCIENTIFIC

LAB EQUIPMENT SOLUTIONS

## ALGAE CHAMBER - AL-30L2



Model	AL-30L2
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	6.1 sq.ft.
Maximum Shelf Height	9"
Light Intensity (6" from lamps)	Up to 360 micromoles/m2/sec
Number of Tiers	2

### Applications

- \*This chamber is specifically designed for algae with higher light intensity requirements
- \*Also, frequently used for short plants with moderate light intensity requirements
- \*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 lighted by fluorescent lamps properly spaced for uniform light intensity over entire shelf
- \*Intensity programmable up to 360 micromoles/m2/sec of light irradiance measured at 6" from lamps on 2 on/off light events
- \*Programming and control of the lighting is done via IntellusUltra real time controller

### Airflow

\*Conditioned air circulates through a rear wall plenum, and travels horizontally across each shelf (air then flows vertically upward through the space between the door and shelves back to the unit cooler)

### Cabinet Construction

- \*Interior constructed of 22-gauge electro-zinc plated steel
- \*Exterior constructed of 18-gauge 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
- \*Overall wall thickness is 2"

### Insulation

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

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### Interior Space

\*9.7 cu.ft. with work area 6.1 sq.ft. provided on two tiers.

### Door

\*One door opening 26.8" x 29.6" provides full access to chamber interior (magnetic gasket provides a tight seal to door frame)

### Shelving

\*Two tiers of white epoxy coated steel wire shelving (each shelf is 16.4"D x 26.5"W)

\*Maximum shelf height is 9" 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 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 an extended steam for quiet and long life operation

\*Rear chamber wall mounted evaporator coil incorporates an air circulation fan (heat rejection to the ambient on standard chamber = 3200 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, except for the fresh air blower, activating alarms (when the temperature returns to the normal range the system will automatically reset)

### Convenience Receptacles

\*Two 115/1/60 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 Fluorescents



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