



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)	7-44C +/- 0.5C
Interior Space	9.7 cu.ft.
Total Shelving Floor Area	6.1 sq.ft.
Maximum Shelf Height	10.5"
Light Intensity (6" from lamps)	Up to 440 micromoles/m2/sec
Number of Tiers	2

Applications

- *This chamber is specifically designed for algae with higher light intensity requirements
- *Frequently used for short plants with moderate light intensity requirements
- *Many other applications exist for this product

Percival's IntellusUltra Controller

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

Lighting System

- *Two tiers of lighted shelving, lit by SciWhite LEDs
- *Intensity programmable up to 440 micromoles/m2/sec of light irradiance measured at 6" from LEDs

Lighting System cont.

- *Programming and control of the lighting is done via IntellusUltra real time controller
- *Dimmable between 10-100%

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

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Insulation

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

Interior Space

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

Door

*One door opening 26.8" x 29.8" 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 16.5"D x 26.5"W)
*Maximum shelf height is 10.5" with both shelves installed

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 = 2,023 BTU/hr)

Temperature Range

*7-44C (+/- 0.5C) lights on and 2-44C (+/- 0.5C) lights off

Electrical Requirements

*Consult Geneva Scientific for electrical requirements and amperage draw

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

Options

*Additive Humidity Control with Sensor
*Dehumidifier with Sensor
*IntellusUltra Connect
*CO2 Enrichment Package
*Self-Contained Water-Cooled Condensing Unit
*Dry Alarm Contacts
*Extended Temperature Ranges
*Convenience Receptacles



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Specifications are subject to change without notice.
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