



GENEVA SCIENTIFIC
LAB EQUIPMENT SOLUTIONS

ALGAE CHAMBER - AL-22L



Model	AL-22L
Exterior Dimensions (WxDxH)	33.5" x 36.6" x 77.9"
Temp. Range (w/ lights on)	10-44C +/- 0.5C
Interior Space	14.6 cu.ft.
Total Shelving Floor Area	10.8 sq.ft.
Maximum Growing Height	7.8"
Light Intensity (6" from lamps)	350 micromoles/m2/sec
Number of Tiers	2
Specifications for the 22 series are per compartment unless otherwise noted. All of the 22 series units are designed to have two different environments per chamber. (i.e. 22 with AR on top and E on the bottom)	

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 350 micromoles/m2/sec of light irradiance measured at 6" from lamps
- *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 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
- *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)

Door

- *Each door opening is 29.2" x 27.5" provides full access to chamber interior (magnetic gasket provides a tight seal to door frame)

Interior Space

- *14.6 cu.ft. with work area of 10.8 sq.ft. provided on two tiers

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Shelving

*Two tiers of white epoxy coated steel wire shelving (each shelf is 27" x 28.8")

*Shelves are supported by shelf clips allowing 1/2" vertical adjustments

*Maximum clearance between shelves is 7.8" per tier

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

Temperature Range

*10-44C (+/- 0.5C) with lights on, 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)

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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