



GENEVA SCIENTIFIC

LAB EQUIPMENT SOLUTIONS

ARABIDOPSIS CHAMBER - AR-66L2



Model	AR-66L2
Exterior Dimensions (WxDxH)	66" x 33.6" x 77.2"
Temp. Range (w/ lights on)	10-44C +/- 1C
Interior Space	62.4 cu.ft.
Total Shelving Floor Area	20.3 sq.ft.
Maximum Growing Height	20.8"
Light Intensity (6" from lamps)	275 micromoles/m2/sec
Number of Tiers	2

Applications

*This chamber is frequently used for Arabidopsis thaliana, Brassica sp., lettuce, spinach and other plants with lower 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 this philosophy to the next level with our improved IntellusUltra Controller. Now choose from the levels of functionality that meet your research needs.

Lighting System

*Each tier of shelves is lighted by cool white fluorescent lamps and incandescent lamps properly spaced for uniform light intensity over entire shelf

*Intensity programmable up to 275 micromoles/m2/sec of light irradiance measured at 6" from lamps on 3 on/off light events

Lighting System cont.

*Two levels of programming of fluorescent lighting and one level of programming of incandescent lighting

*Programming and control of the lighting is done via IntellusUltra real time controller

Airflow/Circulation

*Air circulation inside chamber is from a specifically designed air diffuser (air travels along entire back wall, over the shelves and returns to the ceiling fans through an opening between the light fixtures and the doors)

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

*Overall wall thickness is 2"

*One 1 1/4" diameter access port on the right hand wall

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Cabinet Construction cont.

- *Stainless steel chamber floor equipped with floor drain and hose assembly
- *Contains caster assembly and adjustable leveling legs to compensate for floor unevenness in the lab

Insulation

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

Doors

- *Two doors each with an opening of 29.1" x 57.5" providing full access to chamber interior (magnetic gasket provides a tight seal to door frame)

Interior Space

- *62.4 cu.ft. with work area of 20.3 sq.ft. provided on two tiers

Shelving

- *Two tiers of 22 -gauge stainless steel with no perforations (each tier is 24"D x 30.4"W)
- *Shelves are vertically adjustable in 1/2" increments
- *Maximum growing height is 20.8" per tier

Finish

- *Interior and exterior painted with high reflective, environmentally friendly, high temperature baked white powder coating

Convenience Receptacles

- *Two 115/1/60 convenience receptacles provided inside chamber

Electrical Requirements

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

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
- *Ceiling mounted evaporator coils incorporate four air circulation fans in aluminum housing (heat rejection to ambient with standard chamber: 6500 BTU/hr)

Temperature Range

- *10-44C (+/- 1C) with lights on and 4-44C (+/- 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)

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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