



GENEVA SCIENTIFIC

LAB EQUIPMENT SOLUTIONS

ARABIDOPSIS CHAMBER - AR-75L3



Model	AR-75L3
Exterior Dimensions (WxDxH)	76.9" x 37.1" x 78.5"
Temp. Range (w/ lights on)	10-44C +/- 1C
Interior Space	71.6 cu.ft.
Total Shelving Floor Area	32.2 sq.ft.
Maximum Growing Height	15.5"
Light Intensity (6" from lamps)	300 micromoles/m2/sec
Number of Tiers	3

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 that 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 lighted by fluorescent lamps and incandescent lamps properly spaced for uniform light intensity over entire shelf

*Intensity programmable up to 300 micromoles/m2/sec of light irradiance measured @ 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

*Uniform air circulation across each shelf via air diffusers on the rear wall

*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

*Chambers built in panel sections each consisting of 2" thick urethane insulation

*Metal interior and exterior surfaces

*Cam-type fasteners and vinyl gaskets

*Interior and exterior constructed of 22-gauge electro-zinc plated steel

*Three 1 1/4" diameter access ports

*Stainless steel floor equipped with floor drain and hose assembly

*Chamber cabinet is attached to angle frame base containing heavy duty swivel casters

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Insulation

*Woodless construction using foam-in-place 2" thick CFC free urethane insulation foam (this is an environmentally friendly foam with global warming potential [GWP] of 0.0 and ozone depletion potential [ODP] of 0.0)

Doors

*Two doors each with an opening of 22.7" x 57.7" providing full access to chamber interior (magnetic gasket provides a tight seal to door frame)

Interior Space

*71.6 cu.ft. with work area of 32.2 sq.ft. provided on two tiers

Shelving

*Three tiers (six shelves) of 22-gauge stainless steel with no perforations (each shelf is 27.3"D x 28.4"W)

*Shelves are vertically adjustable in 1/2" increments

*Maximum growing height is 15.5" 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.

Temperature Range

*10-44C (+/- 1C) with lights on and 4-44C (+/- 0.5C) with lights off

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)

*Optional outdoor all weather air-cooled condensing unit or self contained water-cooled condensing unit available upon request

*Solenoid valves have extended stem for quiet and long life operation

*Heat rejection to the ambient by standard chamber is 8700 BTU/hr

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 and Dehumidifier with Sensor

*IntellusUltra Connect

*Android-Based Touch Screen

*CO2 Enrichment Package

*Dry Alarm Contacts

*Dimmable Lighting

*LED Lighting in Lieu of Fluorescent Lamps



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