

ARABIDOPSIS CHAMBER - AR-36L2

	 21	1	
	 •		
-			

Model	AR-36L2		
Exterior Dimensions (WxDxH)	33.5" x 33.6" x 77.2"		
Temp. Range (w/ lights on)	7-44C +/- 0.5C		
Interior Space	29.7 cu.ft.		
Total Shelving Floor Area	10.8 sq.ft.		
Maximum Growing Height	21.8"		
Light Intensity (6" from lamps)	350 micromoles/m2/sec		
Number of Tiers	2		

Applications

*This chamber is frequently used for Arabidopsis thaliana, and other low light plant growth

*Many other applications exist for this product

Percival's IntellusUltra Controller

*The IntellusUltra control system was purpose-built for controlled environments and is standard on all Percival chambers.

*Robust and reliable, industrial-grade integrated hardware design

*Highly flexible architecture facilitates configuration, expansion and customization

*Precise, simultaneous control of up to 7 environmental parameters

*Industry-leading experiment protection and system diagnostics

IntellusUltra control graphical user interface

*A touchscreen user interface is provided as standard on all Percival Scientific plant growth chambers and allows users to interact with their controlled environment in new and intuitive ways (cont)

Geneva Scientific LLC P.O. Box 408 Fontana, WI 53125 1-877-436-3827 Fax: 262-607-6497 Sales@Geneva-Scientific.com

*10.1 IPS, high resolution display with 10-point multi-touch sensitivity *Tabular and graphical presentation of chamber programs and parameters *Highly visable process values and alarm notifications

*Enhanced user feedback menus

SciWhite LED lighting System

*Two tiers of lighted shelving lit by SciWhite LEDs

*Intensity programmable up to 350 micromoles/m2/sec of light irradiance measured at 6" from LEDs

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

*Dimmable between 10-100% output

Airflow/Circulation

*Conditioned air circulates through a rear wall duct and is picked up by a specially designed fixed air diffuser located at the bottom of each tier (air is then delivered vertically upward at a slow speed through each shelf) *Air diffuser insulates shelf level experiments from heat generated by underlying light fixture (this design minimizes condensation on petri dish lids)

ARABIDOPSIS CHAMBER - AR-36L2

Cabinet Construction

- *Interior constructed of 26-gauge galvanized steel
- *Interior floor constructed of 24-gauge polished stainless steel *Exterior constructed of 24-gauge Galvannealed extra-smooth steel
- *NSF-compliant seam design
- *Overall wall thickness is 2" (5.1 cm)
- *Integrated floor drain
- *Contains caster assembly and adjustable leveling legs
- *One 1.25" access port with air-tight plug
- *Highly durable and reflective coating

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.

Door

- *One door opening of 29.3" x 57.5" provides full access to chamber interior
- *Magnetic gasket provides a tight seal to door frame
- *Lift-off hinge design allows for simple removal of door

Interior Space

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

Shelving

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

*Each shelf is supported by shelf clips allowing 1/2" veritical adjustments

*Maximum growing height is 21.8" (55.2 cm)

Finish

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

Temperature Range

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



Geneva Scientific LLC P.O. Box 408 Fontana, WI 53125 1-877-436-3827 Fax: 262-607-6497 Sales@Geneva-Scientific.com

Refrigeration

*Top mounted air-cooled condensing unit with hot gas bypass system for continuous compressor operation, extended life and tight temperature control. 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. *Extended stem solenoid valves for quiet and long life operation

*Ceiling mounted evaporator coils incorporate twin air circulation fans in aluminum housing (heat rejection to ambient with standard chamber: 3,645 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 *System automatically resets when temperature returns to normal range

Electrical Requirements

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

Options

- *Additive Humidity Control with Sensor
- *Dehumidifier with Sensor
- *IntellusUltra Connect
- *Additive CO2 control
- *CO2 removal system
- *Self-Contained Water-Cooled Condensing Unit
- *Dry Alarm Contacts
- *Extended temperature ranges available
- *Convenience receptacles



Specifications are subject to change without notice. rev. 01/22