

ARABIDOPSIS CHAMBER - AR-22L

Section 1	
Specificatio	ons shown are per compartment

Model	AR-22L
Exterior Dimensions (WxDxH)	33.5" x 36.6" x 77.9"
Temp. Range (w/ lights on)	10-44±0.5
Interior Space	14.6 cu.ft.
Total Shelving Floor Area	10.8 sq.ft.
Maximum Growing Height	8.8"
Light Intensity (6" from lamps)	350 micromoles/m2/sec
Number of Tiers	1

Applications

*Designed for growth of the Arabidopsis plant

*Provides adequate space for growing the plant to

conditions

one compact footprint

Percival's IntellusUltra Controller

*The IntellusUltra control system (C8) 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 maturity under controlled temperature, humidity and light interact with their controlled environment in new and intuitive ways. *10.1" IPS, high resolution display with 10-point multi-touch sensitivity *Incorporates two individually controlled environments in *Tabular and graphical presentation of chamber programs and parameters

> *Highly visible 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 lamps on 3 on/off light events

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

*Dimmable between 10-100% output

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Airflow/Circulation

*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 22-gauge galvanized steel

*Interior floor constructed of 22-gauge polished stainless steel *Exterior constructed of 18-gauge Galvannealed extra-smooth steel

*NSF-compliant seam design

*Overall wall thickness is 2" (5.1 cm)

*Integrated floor drain in each compartment

*Contains casters assembly and adjustable leveling legs

*One 1.25" access port with air-tight plug per compartment

*Highly durable and reflective coating

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 29.2" x 27.7" providing full access to chamber interior (magnetic gasket provides a tight seal to door frame)

Interior Space

*29.1 cu.ft. with work area of 10.8 sq.ft. provided on two shelves

Shelving

*One tier per compartment of white epoxy coated steel wire shelving (each shelf is 27"D x 28.8"W) *Shelves are supported by shelf clips allowing 1/2" vertical adjustments (maximum growing height is 20")

Refrigeration

*Twin condensing unit (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 buildup in coil) *Solenoid valves have extended stem for quiet and long life operation

*Ceiling mounted evaporator coils incorporate dual air circulation fans in aluminum housing (heat rejection to ambient in standard chamber = 2201 BTU/hr)

Temperature Range

10°-44°C (±0.5°C) lights on and 2°-44°C (±0.5°C) 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
- *CO2 Enrichment Package
- *Self-Contained Water-Cooled Condensing Unit
- *Dry Alarm Contacts
- *Extended Temperature Ranges
- *Convenience Receptacles

Laminar Flow

Hood



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Ultralow Freezers

CO2 Incubators