



GENEVA SCIENTIFIC

LAB EQUIPMENT SOLUTIONS

SEED GERMINATION CHAMBER - GR-36L



Model	GR-36L
Exterior Dimensions (WxDxH)	33.5" x 33.6" x 77.2"
Temp. Range (w/ lights on)	5-44±0.5
Interior Space	29.7 cu.ft.
Total Shelving Floor Area	76.5 sq.ft.
Maximum Growing Height	2.6"
Light Intensity (6" from lamps)	140 micromoles/m2/sec
Number of Tiers	15

Applications

- *Designed exclusively for seed germination and development
- *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.

IncuWhite LED lighting system

- *Linear LEDs vertically mounted
- *Intensity programmable up to 140 μ moles/m2/s of light irradiance measured @ 6" from LEDs
- *Programming and control of the lighting is done via IntellusUltra real time controller
- *Dimmable between 5-100% output

Airflow/Circulation

*Operating conditions within the growth area to be maintained by conditioned air horizontal through the chamber and back to air conditioning unit on ceiling which contains a refrigeration coil, expansion device, condensate pan and recirculation fans

Cabinet Construction

- *26-gauge smooth galvanized white side walls and top reinforced with 24-gauge backer plates
- *Interior floor constructed of 24-gauge #304-4 stainless steel
- *24-gauge smooth white galvanized exterior
- *NSF compliant seam design
- *Overall wall thickness 2"
- *Foamed-in-place non-CFC insulation
- *One 1 1/4" diameter access port on right hand wall
- *Chamber floor equipped with floor drain and hose assembly
- *Contains casters assembly and adjustable leveling legs to compensate for floor unevenness in the lab

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Insulation

*Woodless construction using 2" thick foamed-in-place non-CFC Urethane insulation with 93% closed cell, R-value of 12.5, K-value of 0.16 and density of 2.2 lbs/ft³

Door

*One door opening of 29.3" x 57.5" providing full access to chamber interior (magnetic gasket provides a tight seal to door frame)

Interior Space

*29.7 cu.ft. with work area of 76.5 sq.ft. provided on fifteen shelves

Shelving

*Fifteen tiers of white epoxy coated steel wire shelving (each shelf is 25.5"D x 28.8"W)
*Shelves side in and out easily on stainless steel rail assemblies
*Clearance between shelves is 2.6"

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)
*Top mounted refrigeration system allows easy access for maintenance (e.g. cleaning)
*As heat is rejected, it rises and is dissipated into room without having any effect on inside temperature of cabinet
*Solenoid valves have extended stem 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: 2217 BTU/hr)

Temperature Range

5°-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.

Popular options

*Phenolic Coated Coils
*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



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Specifications are subject to change without notice.
rev. 03/22