



# GENEVA SCIENTIFIC

LAB EQUIPMENT SOLUTIONS

## SEED GERMINATION CHAMBER - GR-41L



Model	GR-41L
Exterior Dimensions (WxDxH)	41" x 33.6" x 77.2"
Temp. Range (w/ lights on)	5-44±0.5
Interior Space	37.2 cu.ft.
Total Shelving Floor Area	96.4 sq.ft.
Maximum Growing Height	2.6"
Light Intensity (6" from lamps)	120 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 120  $\mu$ 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 1¼" 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

## SEED GERMINATION CHAMBER - GR-41L

### Insulation

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

### Door

\*One door opening of 36.8" x 57.5" providing full access to chamber interior (magnetic gasket provides a tight seal to door frame)

### Interior Space

\*37.2 cu.ft. with work area of 96.4 sq.ft. provided on fifteen shelves

### Shelving

\*Fifteen tiers of white epoxy coated steel wire shelving (each shelf is 25.5"D x 36.3"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: 2856 BTU/hr)

### Temperature Range

\*5-44C (+/- 0.5C) with lights on and 2-44C (+/- 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)

### Electrical Requirements

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

### Popular options

\*Phenolic Coated Coils  
\*Additive Humidity Control with Sensor  
\*Ultrasonic humidifier and dehumidifier with RH Sensor  
\*IntellusUltra Connect  
\*Android-Based Touch Screen  
\*CO2 Enrichment Package  
\*Self-Contained Water-Cooled Condensing Unit  
\*Dry Alarm Contacts  
\*Convenience Receptacles  
\*Extended temperature range



**GENEVA SCIENTIFIC**  
LAB EQUIPMENT SOLUTIONS



Geneva Scientific LLC  
P.O. Box 408  
Fontana, WI 53125

1-877-436-3827  
Fax: 262-607-6497  
Sales@Geneva-Scientific.com

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