



GENEVA SCIENTIFIC
LAB EQUIPMENT SOLUTIONS

INCUBATOR - I-41LL



Model	I-41LL
Exterior Dimensions (WxDxH)	41" x 33.6" x 77.2"
Temp. Range (w/ lights on)	4-44±0.5
Interior Space	37.2 cu.ft.
Total Shelving Floor Area	27.2 sq.ft.
Maximum Growing Height	11.25"
Light Intensity (6" from lamps)	100 micromoles/m2/sec
Number of Tiers	4

Applications

- *This chamber is frequently used for Cyanobacteria, insects and simple/low cost seed germination
- *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 horizontally mounted in pairs above each shelf.
- *Intensity programmable up to 100 µmoles/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

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 (refer to insulation section)
- *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

Air flow/circulation

- *Uniform air circulates across shelf via air diffusers on rear wall

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

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Door

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

Interior Space

*37.2 ft³ (1.1 m³) with work area of 27.2 ft² (2.5 m²) provided on four tiers

Shelving

*Four tiers of white epoxy coated steel wire shelving (each shelf is 27"D x 36.3"W)

*Shelves are supported by shelf clips allowing ½" vertical adjustments

*Maximum clearance between shelves is 11.25" per tier with all four shelves installed

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: 2675 BTU/hr)

Temperature Range

*4°-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

*Phenolic Coated Coils

*Additive Humidity Control with Sensor

*Dehumidifier with Sensor

*IntellusUltra Connect

*Android-Based Touch Screen

*CO₂ Enrichment Package

*Self-Contained Water-Cooled Condensing Unit

*Dry Alarm Contacts

*Open loop dimmable lighting control per tier

*Extended temperature ranges

*Convenience receptacles



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Specifications are subject to change without notice.
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