



GENEVA SCIENTIFIC

LAB EQUIPMENT SOLUTIONS

TISSUE CULTURE CHAMBER - CU-36L4



Model	CU-36L4
Exterior Dimensions (WxDxH)	33.5" x 33.6" x 77.2"
Temp. Range (w/ lights on)	10-44±0.5
Interior Space	29.7 cu.ft.
Total Shelving Floor Area	21.6 sq.ft.
Maximum Growing Height	9.3"
Light Intensity (6" from lamps)	350 micromoles/m2/sec
Number of Tiers	4

Applications

- *This chamber is specifically designed for tissue culture on petri plates/dishes or in flasks
- *Many other applications exist for this product

Percival's IntellusUltra Controller

- *The IntellusUltra control system was purpose-built for controlled environments.
- *Robust, reliable, industrial-grade integrated hardware
- *Highly flexible architecture facilitates configuration, expansion and customization
- *Precise, simultaneous control of up to 7 environmental parameters
- *Industry-leading experiment protection and system diagnostics

PetriClear LED lighting system (patent pending)

- *Four tiers of lighted shelving, lit by PetriClear LEDs
- *Intensity programmable up to 170 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 10-100%

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 dish lids)

Cabinet Construction

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

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Insulation

*Woodless construction using 2" thick foamed-in-place non-CFC Urethane insulation with 97% closed cell structure density of 2.2 lbs/sq.ft.

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)

*Lift-off hinge design allows for simple removal of door

Interior Space

*29.7 cu.ft. with work area of 21.6 sq.ft. provided on four tiers

Shelving

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

*Shelves side in and out easily on stainless steel rail assemblies

*Maximum growing height is 9.3"

Temperature Range

*10-44C (+/- 0.5C) with lights on and 2-44C (+/- 0.5C) with lights off

Regulatory Standards

*Electrical Safety: UL-508A, certified and labelled by Percival Scientific under UL file number E340161

*Quality System: ISO 9001:2015, certified under DQS, Inc. under certification number 10017261

Refrigeration

*Top mounted 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)

*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: 2,643 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

*Android-Based Touch Screen

*CO2 Enrichment Package

*Self-Contained Water-Cooled Condensing Unit

*Dry Alarm Contacts

*Convenience Receptacles



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