



GENEVA SCIENTIFIC

LAB EQUIPMENT SOLUTIONS

TISSUE CULTURE CHAMBER - CU-22L



Specifications shown are per compartment

Model	CU-22L
Exterior Dimensions (WxDxH)	33.5" x 36.6" x 77.9"
Temp. Range (w/ lights on)	10-44C +/- 0.5C
Interior Space	14.6 cu.ft.
Total Shelving Floor Area	10.8 sq.ft.
Maximum Growing Height	7.5"
Light Intensity (6" from lamps)	350 micromoles/m2/sec
Number of Tiers	2

Applications

- *Specifically designed for tissue culture on 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 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

PetriClear LED lighting system (patent pending)

- *Two tiers of lighted shelving, lit by PetriClear LEDs
- *Intensity programmable up to 170 μ moles/m2/s of light irradiance measured @ 6" from LEDs

PetriClear LED lighting system (cont.)

- *Programming and control of the lighting is done via IntellusUltra real time controller
- *Dimmable between 10-100% output

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 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

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Specifications are subject to change without notice.
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Insulation

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

Doors

*Each door opening 29.3" x 27.8" providing full access to chamber interior (magnetic gasket provides a tight seal to door frame)

Interior Space

14.6 ft³ with shelf area of 10.8 sq ft provided on two shelves

Shelving

*Two tiers per compartment of white epoxy coated steel wire shelving (each shelf is 27"D x 28.8"W)
*Shelves slide in and out easily on stainless steel rail assemblies
*Maximum growing height is 7.5"

Refrigeration

*Twin air-cooled condensing units, each 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)
*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 with standard chamber: = 2,660 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
*Android-Based Touch Screen
*CO₂ Enrichment Package
*Self-Contained Water-Cooled Condensing Unit
*Dry Alarm Contacts
*LED Lighting in Lieu of Fluorescent Lamps



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