

tissue culture

Percival® model CU-30L2

Standard SciWhite™ lighting



applications

- This chamber is specifically designed for tissue culture on plates/dishes or in flasks
- Many other applications exist for this product
Please compare your own requirements to the specifications listed below.

IntellusUltra controller

The IntellusUltra control system (C8) 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

SciWhite LED lighting system

- Two tiers of lighted shelving, lit by SciWhite LEDs
- Intensity programmable up to 310 $\mu\text{moles}/\text{m}^2/\text{s}$ of light irradiance measured @ 6" from LEDs
- Programming and control of the lighting is done via IntellusUltra real time controller
- Dimmable between 10-100% 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 26-gauge galvanized steel
- Interior floor constructed of 24-gauge polished stainless steel
- Exterior constructed of 24-gauge Galvannealed extra-smooth steel
- NSF-compliant seam design
- Chamber is completely self-contained, suitable for stacking one above the other
- Overall wall thickness is 2" (5.1 cm)
- Highly durable and reflective coating

CU-30L2 specifications (subject to change without notice)

| Temp Range with all lights on | Interior Space volume | | Total Shelving Floor Area | | Maximum Growing Height | | Exterior Dimensions | | | | | | Light Intensity 6" from lamps unless otherwise noted | Tiers |
|----------------------------------|--------------------------|-----------------|------------------------------|-----------------|---------------------------|------|---------------------|-------|------|-------|------|--------|--|-------|
| | °C | ft ³ | m ³ | ft ² | m ² | in | cm | width | | depth | | height | | |
| | | | | | | | in | cm | in | cm | in | cm | $\mu\text{moles}/\text{m}^2/\text{s}$ | |
| 10-44±0.5 | 9.7 | 0.3 | 6.1 | 0.6 | 9.1 | 23.1 | 31 | 78.7 | 23.8 | 60.3 | 46.1 | 117.2 | Up To 310 | 2 |

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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/ft³

door

- One door opening 26.8" x 29.8" (67.9 cm x 75.6 cm) provides full access to the chamber interior
- Magnetic gasket provides a tight seal to door frame
- Lift-off hinge design allows for simple removal of door

interior space

- 9.7 ft³ (0.3 m³) with work area of 6.1 ft² (0.6 m²) provided on two tiers

shelving

- Two tiers of white epoxy coated steel wire shelving (each shelf is 16.5"D x 26.5"W [41.9 cm x 67.3 cm])
- Shelves slide in and out easily on stainless steel rail assemblies
- Maximum growing height is 9.1" (23.1 cm)

refrigeration

- Self-contained air-cooled condensing unit with hot gas bypass system for continuous compressor operation, extended life and tight temperature control. Continuous running condensing unit ensures precise temperature control by alternately cycling refrigerant and hot gas to coil; also prolongs compressor life, and eliminates risk of ice build up in coil.
- Extended stem solenoid valves for quiet and long life operation
- Rear chamber wall mounted evaporator coil incorporates an air circulation fan
- Heat rejection to ambient (standard chamber) = 1,936 BTU/hr.

temperature range

- 10°-44°C (±0.5°C) lights on and 2°-44°C (±0.5°C) lights off

options (most popular)

- IntellusUltra Connect (C9)
- Additive CO₂ control
- CO₂ removal system
- Self-contained water-cooled condensing unit
- Dry alarm contacts
- Closed loop dimmable lighting with PAR light sensor (Q22)
- Open loop dimmable lighting per tier (Q23⁺)
- Extended temperature ranges available
- Convenience receptacles

Contact info@percival-scientific.com with questions or for additional information.

electrical service requirements

- 115/1/60 with NEMA 5-15P plug provided (with standard chamber)
- RLA=10.1, MCA=13

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

helping you create better science

Percival Scientific controlled environment systems are the culmination of over 60 years of design and manufacturing experience. Our high quality products have been developed through direct partnerships with the scientific community and offer platforms that are highly customizable and provide superior performance. We understand that scientific innovation is bred through creativity, passion, technical expertise and attention to detail, and we are proud to help you create better science.



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