

In Situ Drying

Percival® model C-30

Standard IncuWhite® LED lighting

Applications

- Designed for preparing in situ hybridization slides/coverslips used in cytogenetics
- Uniquely engineered to facilitate even spreading of chromosomes during the drying process
- Provides precise control of temperature, humidity and airflow regardless of ambient environmental fluctuations

IntellusUltra Controller

The IntellusUltra (C8) control system adapts to nearly any programming style with a large range of options for optimal control over experiments.

- Robust and reliable, industrial-grade integrated hardware design
- Highly flexible programming capabilities for customized configurations and expansion
- Precise, simultaneous control of up to 7 environmental parameters
- Industry-leading experiment protection and system diagnostics

IncuWhite LED Lighting System

- Linear LEDs horizontally mounted in a pair above the shelf
- Programmable through the IntellusUltra real-time controller
- Dimmable output from 5-100% in one-percent increments

Airflow/Circulation

- Two fans moving approximately 400 cfm with output adjustable from 0 to 100%
- Direction: vertical, downward
- Small blower provided to draw air out of chamber (this discharged air, which is manually variable from 4 to 7 cfm, leaves the blower through a 1.5" duct adapter that can be connected to an exhaust system)



Cabinet Construction

- Interior constructed of 22-gauge stainless steel
- Exterior constructed of 18-gauge Galvannealed extra-smooth steel
- Welded seams and joints on outer and inner shells
- Chamber is completely self-contained, suitable for stacking one above the other with optional stacking angle
- Integrated floor drain
- One 1.25" diameter exhaust port with air-tight plug
- Overall wall thickness is 2" (5.1 cm)

Insulation

- Construction using 2" high-grade materials, such as closed-cell and non-CFC Urethane insulation

C-30 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
							width		depth		height			
°C	ft³	m³	ft²	m²	in	cm	in	cm	in	cm	in	cm	µmoles/m²/s	
21-30±0.2	4.7	0.13	2.8	0.3	18.6	47.2	33.5	85.1	33.2	84.3	46.2	117.3	Working Light	1

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Door

- One door opening of 26.75" x 29.75" (67.9 cm x 75.6 cm) provides full access to chamber interior
- Magnetic gasket provides a tight seal to door frame
- Door provided with a 17.8" x 17.8" clear plexiglass panel that has two 5" x 14" access openings covered with hinged clear plexiglass to prevent rapid air exchange when accessing the shelf

Interior Space

- 4.4 ft³ (0.1 mm³) with work area of 2.8 ft² (.03 m²) provided on one tier

Shelving

- One tier of stainless steel wire shelving (shelf is 15.3"D x 26.5"W [38.7 cm x 67.3 cm])

Finish

- Exterior painted with highly reflective, environmentally friendly, high-temperature baked white powder coating

Refrigeration

- Self-contained air-cooled condensing unit with hot gas bypass system (continuous running condensing unit ensures precise temperature control by alternately cycling refrigerant and hot gas to coil; this also prolongs life of compressor and eliminates risk of ice buildup in coil)
- Extended stem solenoid valves for quiet and long life operation
- Operating conditions within the drying chamber are maintained by conditioned air
- Heat rejection to ambient (standard chamber) = 3,165 BTU/hr
- Coated coil for improved resistance to corrosion from acidic environments

Temperature Range

- 21°-30°C (±0.2°C)

Humidity Control

- Humidity control from 28% to 75% (±5%) at 28°C with 4 cfm air exhaust and 25°C/50% RH ambient
- Humidity control 39% (±5%) at 21°C with 4 cfm air exhaust and 25°C/65% RH ambient
- Floor-mounted, pan-type humidifier and dehumidifier with electronic RH sensor (H6)
- Refrigeration-based dehumidification coils
- Humidifier reservoir and chamber floor drains included
- Extended humidity ranges available

A de-mineralized water supply is required, which terminates to a ½" MPT connector. See other specification sheets or contact Percival Scientific for additional information.

Options (most popular)

- IntellusUltra Connect (C9)
- IntellusUltra Connect and Android-based touchscreen (C9T)
- IntellusUltra (standard) and Android-based touchscreen (C8T)
- Charcoal filter for exhaust air
- Security package: locking door, power switch and dry alarm contacts (S1)
- Chamber stand
- Stacking angle

Contact info@percival-scientific.com for additional information.

Helping You Create Better Science

Percival Scientific controlled environment systems are the culmination of over 60 years of design and manufacturing experience. We developed our high-quality products through direct partnerships within the scientific community. Our controlled environments are known for their customizable designs and superior, long-lasting performance. Creativity, passion, technical expertise and attention to detail drive our scientific innovation, and we are proud to help you create better science.



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