

Incubators

Percival® model I-30NL



Applications

- Designed for *C. elegans*, nematodes, yeast/fungi, insects, bacteria, BOD and many more applications

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

Lighting System

- No lights are contained inside the chamber (please see model I-30L if lighting is desired)

Airflow/Circulation

- Direction: vertical
- Airspeed fpm (feet per minute): 40

Cabinet Construction

- Interior constructed of 22-gauge galvanized steel
- Exterior constructed of 18-gauge Galvannealed extra-smooth steel
- Welded seams and joints on outer and inner shells
- Inner shell supported by non-compressing/non-thermal conducting material locking inner liner in place without a metal-to-metal bond to outer case
- Chamber is completely self-contained, suitable for stacking one above the other
- Overall wall thickness is 2" (5.1 cm)

Insulation

- Woodless construction using 2" non-CFC Urethane insulation with 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

I-30NL 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		
2-44±0.5	9.6	0.3	9.1	0.8	9	21.6	31	78.7	23.8	60.3	46.2	117.3	No Light	3

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Interior Space

- 9.6 ft³ (0.3 m³) with work area of 9.1 ft² (0.8 m²) provided on three tiers

Shelving

- Three 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 are supported by shelf clips allowing ½" vertical adjustments
- Maximum clearance between shelves is 8.5" (21.6 cm) per tier with all three shelves installed

Finish

- Interior and 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
- Rear chamber wall-mounted evaporator coil incorporates an air circulation fan
- Heat rejection to ambient (standard chamber) = 1,221 BTU/hr

Temperature Range

- 2°-44°C (±0.5°C)

Temperature Safety Limit Controls

- Experiment protection (adjustable high/low temperature control, audible alarms and visual indicators)
- Controls shut down all power to the chamber, activating alarms
- System automatically resets when temperature returns to normal range

Humidity Control (optional)

- Additive humidity control of higher than ambient to 90% (±10%) lights on for set temperatures between 15° to 30°C
- Extended humidity ranges available
- Pan-type humidifier with electronic RH sensor (H1)
- Pan-type humidifier and dehumidifier with electronic RH sensor (H3)
- Ultrasonic humidifier with advanced RH sensor (H11)
- Ultrasonic humidifier with electronic RH sensor (H14)
- Ultrasonic humidifier and dehumidifier with electronic RH sensor (H15)

See other specification sheets or contact Percival Scientific for additional information. If humidity system is selected as an option, a de-mineralized water supply is required, which terminates to a ½" MPT connector.

Options (most popular)

- Phenolic coated coils (required for Drosophila research) (Q9)
- Access port with cover (Q10)
- IntellusUltra Connect (C9)
- IntellusUltra Connect and Android-based touchscreen (C9T)
- IntellusUltra (standard) and Android-based touchscreen (C8T)
- CO₂ enrichment package
- Door with observation window and cover (Q2)
- Door with fresh air ports (Q1)
- Self-contained water-cooled condensing unit
- Dry alarm contacts
- LED working light (Q24)
- Extended temperature ranges available
- Convenience receptacles

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

Electrical Service Requirements

- 120/1/60 with NEMA 5-15P plug provided (with standard chamber)
- RLA=7.7A (MCA=10.5A)

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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