

Incubators

Percival® model I-30NL



Applications

- This chamber is frequently used for *C. elegans*, nematodes, yeast/fungi, insects, bacteria and BOD
 - Many other applications exist for this product
- Please compare your own requirements to the specifications listed below.*

Percival's IntellusUltra Controller

Percival Scientific has built a reputation of providing flexible, customized options for research scientists around the world. We've taken that philosophy to the next level with our improved IntellusUltra Controller. Now choose from the levels of functionality that meet your research needs.

Please refer to www.percival-scientific.com for additional information regarding the control system.

Lighting System

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

Cabinet Construction

- Interior constructed of 22-gauge electro-zinc plated steel
- Exterior constructed of 18-gauge exterior electro-zinc plated 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 CFC free insulation (overall wall thickness is 2" [5.1 cm], ample insulation for maintenance of stated temperature range)

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
							width		depth		height			
°C	ft³	m³	ft²	m²	in	cm	in	cm	in	cm	in	cm	µmoles/m²/s	
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 for continuous compressor operation, extended life and close temperature control (this 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 build up in coil)
- Solenoid valves have extended stem 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 and low temperature controls, audible alarms, and visual indicators provided
- Controls shut down all power to the chamber, activating alarms (when the temperature returns to the normal range the system will automatically reset)

Humidity (optional)

This section outlines the H1 option

- Additive humidity control of higher than ambient to 90% (±10%) lights on for set temperatures between 15° to 30°C
- Extended humidity ranges available

See other specification sheets or consult factory 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)
- 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)
- 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

See other catalog sheets or consult factory for additional accessories.

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. 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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