

INCUBATORS

I-30NL Biological Incubator



Applications These chambers have been designed for applications such as B.O.D. determinations, culturing, rearing and holding of test organisms as well as bioassays, and product stability testing.

Many other applications exist for this product. Please compare your requirements to the specifications.

Controller Percival's Intellus Ultra controller is capable of controlling temperature, humidity, CO₂ and lighting. The Intellus Ultra Control System is a single-board electronic solid-state design which includes a 10 key membrane keypad with LED indicators and a vacuum fluorescent display. Programs may be configured to run in real time or countdown (circadian) mode. Ramping and non-ramping program methods are available for each programming mode. Multiple programs can be linked to create complex environmental profiles. The Intellus Web Server (optional) allows for monitoring and controlling of the chamber via a web browser (requires Internet Explorer 6.0 +). This option allows for remote monitoring and programming of your chamber including alerts and current condition updates for up to five e-mail addresses. 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 models I-30BLL, I-30VL or E-30B if lighting is desired.

Temp Range (with all lights on)	Interior Space (volume)		Work Area		Maximum Growing Height		Exterior Dimensions in. (cm)			Light Intensity (6" from lamps unless otherwise noted)	# of Tiers
	ft ³	m ³	ft ²	m ²	in.	cm	(W)	(D)	(H)	μmoles/m ² /s	
2-44±0.5	8	.23	9.11	.85	9.25	23.7	31(78.7)	23.8(60.3)	46(116.8)	No Light	3

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Cabinet Construction 22-gauge interior and 18-gauge exterior electro-zinc plated steel construction with stainless steel floor. All seams and joints on the outer and inner shells are welded. Inner shell is supported by a non-compressing and non-thermal conducting material to lock the inner liner in place without a metal-to-metal bond to the outer case. The chamber is completely self-contained, suitable for stacking one above the other. Overall wall thickness is 2" (5.1cm).

Insulation Woodless construction using CFC free insulation. Overall wall thickness is 2" (5.1cm), ample insulation for maintenance of stated temperature range.

Door One door opening 26 3/4" x 29 5/8" (67.9 cm x 75.2 cm) provides full access to the chamber interior. A magnetic gasket provides a tight seal to door frame.

Interior Space 8 ft³ (0.23 m³) with a work area 9.11 ft² (.85 m²) provided on three tiers.

Shelving Three tiers of white epoxy coated steel wire shelving. Each shelf is 16 3/8" D x 26 1/2" W (41.6 cm x 67.3 cm). Shelves are supported by shelf clips which allows 1/2" vertical adjustments. The maximum clearance between shelves is 9" (22.8 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 1/4 h.p. 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 the coil; this also prolongs the life of the compressor, and eliminates the risk of ice build up in the coil. Solenoid valves have an extended stem for quiet and long life operation. Evaporator coil is mounted on the rear chamber wall, and incorporates an air circulation fan. Heat rejection to ambient (standard chamber) =3000 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 are provided. The controls shutdown all the power to the chamber and activates the alarms. When the temperature returns to the normal range the system will automatically reset.

Humidity Control (Optional) (This section outlines the H1 option)

Additive humidity control of higher than ambient to 90% (± 10%) lights on for temperatures between 15° to 30° C. Extended humidity ranges available. See other catalog sheets or consult factory for additional information. If humidity system is selected as an option, a de-mineralized water supply line is required which terminates to a 1/2" MPT connector.

Options (most popular)

Phenolic Coated Coils (required for drosophila research) (Q9), Access Port with cover (Q10), Glass door (Q12), Intellus Ultra Web Server (C9), Communications Software (C9+), Intellus Ultra with Touchscreen and Internet capabilities (C10), 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), Dehumidification via independent dehumidifying coil with reheat heaters and Ultrasonic Humidifier (H12), Ultrasonic Humidifier with Electronic RH sensor (H14), 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, dimmable lighting (closed loop with PAR light sensor)(Q22), dimmable lighting (open loop control)(Q23), extended temperature ranges available. See other catalog sheets or consult factory for additional accessories.

Convenience Receptacles One 115/1/60 convenience receptacle provided inside chamber.

Electrical Service Requirements 115/1/60 - 8 amps (total) for standard chamber. Power cord and grounded plug provided.



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