

# INCUBATORS

## I-66NL Biological Incubator



**Applications** These chambers have been designed for B.O.D. determinations as well as bacterial culturing, bioassays and more.

Please compare your requirements to the specifications.

**Controller** Percival's Intellus controller is capable of controlling temperature, humidity, CO<sub>2</sub> and lighting events. The Standard Intellus Control System is a single-board electronic solid-state design with vacuum fluorescent display and ten-key membrane touch pad control. Programs are created and run in real time with up to 96 steps, non-ramping, or diurnal programming. The Advanced Intellus controller (optional) provides Ethernet connectivity, ramping, multiple programs, program linking and additional outputs.

**Lighting System** No lights are contained inside the chamber; please see models I-66LL, I-66VL or I-66LLVL if lighting is desired.

**Cabinet Construction** 22-gauge interior and 18-gauge exterior electro-zinc plated steel construction. 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. Overall wall thickness is 2" (5.1cm). One 1 1/4" diameter access port is provided on the R.H. wall. Chamber floor is equipped with a floor drain and hose assembly. The chamber also contains caster assembly and adjustable leveling legs to compensate for floor unevenness in the lab.

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
	° C	ft <sup>3</sup>	m <sup>3</sup>	ft <sup>2</sup>	m <sup>2</sup>	in.	cm	(W)	(D)		
4-44±0.5	61.8	1.75	64.7	6.0	8.13	20.6	66(167.6)	33.63(85.4)	77(195.6)	No Light	6

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

**Door** Two door openings 29 3/16" x 57 1/2" (74 cm x 146 cm) provides full access to the chamber interior. A magnetic gasket provides a tight seal to dooframe.

**Interior Space** 61.8 ft<sup>3</sup> (1.75 m<sup>3</sup>) with a work area 64.7 ft<sup>2</sup> (6.0 m<sup>2</sup>) provided on six tiers.

**Shelving** Six tiers (twelve shelves) of white epoxy coated steel wire shelving. Each shelf is 27" D x 28 3/4" W (68.6 cm x 73 cm). Shelves are supported by shelf clips which allows 1/2" vertical adjustments. The maximum clearance between shelves is 8 1/8" (20.6 cm) per tier with all shelving 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. Top mounted refrigeration system allows easy access for maintenance (e.g. cleaning). Also, as heat is rejected, it rises and is dissipated into the room without having any effect on the inside temperature cabinet. Solenoid valves have an extended stem for quiet and long life operation. Evaporator coil is ceiling mounted and incorporates three air circulation fans in an aluminum housing. Heat rejection to ambient (standard chamber) =4500 BTU/hr.

**Temperature Range** 4° - 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 alarms. When the temperature returns to the normal range the system will automatically reset.

**Humidity Control (Optional) (This section outlines the H1 option)** 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 is required which terminates to a 1/2" MPT connector.

**Options (most popular)** Phenolic Coated Coils (required for drosophila research) (Q9), Glass door (Q12), Advanced Intellus Control System (C9), Communications Software (C9+), Advanced Intellus 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), CO<sub>2</sub> enrichment package, door with observation window and cover (Q2), door with fresh air ports (Q1), self-contained water-cooled condensing unit, dry alarm contacts (S2), 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** Two 115/1/60 convenience receptacles provided inside chamber.

**Electrical Service Requirements** 115/1/60 - 10 amps (total) for standard chamber. Power cord and grounded plug provided.



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