

# INCUBATORS

## I-22 Series "Mix and Match" Incubators

The chamber that offers you the ability to have **TWO** separately controlled environments in **ONE** footprint



**Applications** These chambers have been designed for applications such as drosophila, culturing, rearing and holding of test organisms as well as bioassays, seed germination and product stability testing.

Many other applications exist for this product. 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.

**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 of each compartment. Chamber's stainless steel floor is equipped with a floor drain and hose assembly. The chamber also contains cast-er assembly and adjustable leveling legs to compensate for floor unevenness in the lab.

**Finish:** Interior and exterior painted with highly reflective, environmentally friendly, high temperature baked white powder coating.

Model	Temp Range (with all lights on)	Interior Space (volume)		Work Area		Maximum Growing Height		Exterior Dimensions in. (cm) (both compartments)			Light Intensity (6" from lamps unless otherwise noted) μmoles/m <sup>2</sup> /s	# of Tiers
		ft <sup>3</sup>	m <sup>3</sup>	ft <sup>2</sup>	m <sup>2</sup>	in.	cm	(W)	(D)	(H)		
I-22NL	2 - 44 ± 0.5	14.7	.42	16.2	1.51	7	17.8	33.5(85.1)	36.6(92.9)	78(197.8)	No Light	3
I-22VL	4 - 44 ± 0.5	14.7	.42	9.4	.87	11	28.0	33.5(85.1)	36.6(92.9)	78(197.8)	80	2
I-22LLVL	5 - 44 ± 0.5	14.7	.42	9.4	.87	8.5	21.6	33.5(85.1)	36.6(92.9)	78(197.8)	115	2
I-22LL	4 - 44 ± 0.5	14.7	.42	10.8	1.00	8.5	21.6	33.5(85.1)	36.6(92.9)	78(197.8)	65	2



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# I-22 Series "Mix and Match" Options

**I-22NL** The I-22 NL has been designed for applications such as B.O.D. determinations, bacterial culturing bioassays and more.

**Lighting:** The I-22NL contains no lighting. See other I-22 models on this page for lighting.

**Shelving:** Three tiers constructed of white polyester coated steel. Each shelf measures 27" x 28.75 (cm: 69.2 x 73). Shelves are supported by clips which allow 1/2" vertical adjustment.

**Refrigeration:** 1/4 h.p. continuous running condensing unit and quiet, extended-life solenoid valve. Heat rejection to ambient: 1850 BTU/hr.

**Door:** Each door opening is 29 3/16" x 27 1/2" (74cm x 70 cm) provides full access to the chamber interior. A magnetic gasket provides a tight seal to door frame.

**Temperature Range:** 2° - 44° C (+/-) 0.5° C

**Electrical Requirements:** 115/1/60 - one grounded plug and cord provided per compartment - 10.2 amps.

**I-22VL** These chambers have been designed for applications such as culturing and the rearing and holding of test organisms as well as for bioassays, seed germination and product stability testing.

**Lighting:** 80  $\mu$ moles/m<sup>2</sup>/s. (4) 17W fluorescent lamps mounted in pairs vertically on each side of shelf.

**Shelving:** Two shelves are constructed of white polyester coated steel wire with 9.5 ft.2 (2.0 m<sup>2</sup>) of work area.. Shelves are supported by clips which allow 1/2" vertical adjustments. Shelves measure 27" x 25.12" (68.6 x 63.8 cm).

**Refrigeration:** 1/4 h.p. continuously running condensing unit, extended life solenoid valve. Heat rejection to ambient: 2100 BTU/hr.

**Door:** Each door opening is 29 3/16" x 27 1/2" (74cm x 70 cm) provides full access to the chamber interior. A magnetic gasket provides a tight seal to door frame.

**Temperature Range:** 4° - 44° C (+/-) 0.5° C lights on  
2° - 44° C (+/-) 0.5° C lights off

**Electrical Requirements:** 115/1/60 - one grounded plug and cord provided per compartment - 10.8 amps.

**I-22LLVL** These chambers have been designed for applications such as culturing and the rearing and holding of test organisms as well as for bioassays, seed germination and product stability testing.

**Lighting:** 115  $\mu$ moles/m<sup>2</sup>/s. (4) 20W fluorescent lamps mounted in pairs horizontally above shelves. (4) 17W fluorescent lamps mounted vertically.

**Shelving:** Two shelves constructed of white polyester coated steel wire. Shelves are supported by shelf clips which allow 1/2" vertical adjustment. Each shelf measures 27" x 25.12" (68.6 x 63.8 cm).

**Refrigeration:** 1/4 h.p. continuously running condensing unit, extended life solenoid valve. Heat rejection to ambient: 2350 BTU/hr.

**Door:** Each door opening is 29 3/16" x 27 1/2" (74cm x 70 cm) provides full access to the chamber interior. A magnetic gasket provides a tight seal to door frame..

**Temperature Range:** 5° - 44° C (+/- 0.5 C) lights on  
2° - 44° C (+/- 0.5 C) lights off

**Electrical Requirements:** 115/1/60 - one grounded plug and cord provided per compartment - 11.3 amps.

**I-22LL** These chambers have been designed for applications such as culturing and the rearing and holding of test organisms as well as for bioassays, seed germination and product stability testing.

**Lighting:** 65  $\mu$ moles/m<sup>2</sup>/s. (4) 20W fluorescent lamps mounted horizontally in pairs above shelves.

**Shelving:** Two shelves constructed of white polyester coated steel wire. Shelves are supported by shelf clips which allow 1/2" vertical adjustment. Each shelf measures 27" x 28.75" (68.6 x 73 cm).

**Refrigeration:** 1/4 h.p. continuously running condensing unit, extended life solenoid valve. Heat rejection to ambient: 2100 BTU/hr.

**Access:** Other than standard 22 series chamber access, one 1.25" (3.17 cm) access port is provided.

**Temperature Range:** 4° - 44° C (+/- 0.5 C) lights on  
2° - 44° C (+/- 0.5 C) lights off

**Electrical Requirements:** 115/1/60 - one grounded plug and cord provided per compartment - 10.8 amps.

\*Above specifications are per compartment