

# Incubators

## Percival® model I-22L

Standard IncuWhite® lighting

Specifications, excluding exterior dimensions, are per compartment only.



### Applications

- 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 series

*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](http://www.percival-scientific.com) for additional information regarding the control system.*

### IncuWhite LED Lighting System (I-22L)

- Linear LEDs horizontally mounted above each shelf
- Intensity programmable up to 120  $\mu\text{moles/m}^2/\text{s}$  of light irradiance measured @ 6" from LEDs
- Programming and control of the lighting is done via IntellusUltra real time controller
- Dimmable between 5-100% output

### 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
- Overall wall thickness is 2" (5.1 cm)
- One 1 1/4" (3.2 cm) diameter access port
- Chamber floor equipped with floor drain and hose assembly
- Contains caster assembly and adjustable leveling legs to compensate for floor unevenness in the lab

### I-22L series specifications

Specifications, excluding exterior dimensions, are per compartment only. (subject to change without notice)

Model	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	
I-22NL	2-44±0.5	14.6	0.4	16.2	1.5	7	17.8	33.5	85.1	36.6	93	77.9	197.8	No Light	3
I-22L	4-44±0.5	14.6	0.4	10.8	1	10	25.4	33.5	85.1	36.6	93	77.9	197.8	120	2

# Incubators Percival model I-22L

## Door

- Each door opening 27.8" x 29.3" (70.5 cm x 74.3 cm) provides full access to the chamber interior (magnetic gasket provides a tight seal to door frame)

## Shelving

- I-22NL: Three tiers of white polyester coated steel wire shelving (27"D x 28.8"W [68.6 cm x 73 cm])
- I-22L: Two shelves of white polyester coated steel wire (27"D x 28.8"W [68.6 cm x 73 cm])
- Shelves are supported by shelf clips allowing ½" vertical adjustments

## Finish

- Interior and exterior painted with highly reflective, environmentally friendly, high temperature baked white powder coating

## Refrigeration

- ¼ h.p. 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
- I-22NL: Heat rejection to ambient (both compartments) = 3540 BTU/hr.
- I-22L: Heat rejection to ambient (both compartments) = 3912 BTU/hr.

## Temperature Range

- I-22NL: 2°-44°C ( $\pm 0.5^{\circ}\text{C}$ )
- I-22L: 4°-44°C ( $\pm 0.5^{\circ}\text{C}$ ) lights on and 2°-44°C ( $\pm 0.5^{\circ}\text{C}$ ) lights off

## Electrical Service Requirements

- I-22NL: 120/1/60 with NEMA 5-15P plug provided. RLA=8.9, MCA=11.3 (per compartment).
- I-22L: 120/1/60 with NEMA 5-15P plug provided. RLA=9.3, MCA=11.63 (per compartment).

## 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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