

Incubators

Percival® model I-22L

Standard IncuWhite® LED lighting

Specifications, excluding exterior dimensions, are per compartment only.



Applications

- Designed for rearing and culturing *Drosophila melanogaster* and other test organisms, as well as bioassays, seed germination, product stability testing and many more applications

IntellusUltra Controller

The IntellusUltra (C8) control system adapts to nearly any programming style with a large range of options for optimal control over experiments.

- Robust and reliable, industrial-grade integrated hardware design
- Highly flexible programming capabilities for customized configurations and expansion
- Precise, simultaneous control of up to 7 environmental parameters
- Industry-leading experiment protection and system diagnostics

IncuWhite LED Lighting System (I-22L)

- Linear LEDs horizontally mounted in pairs above each shelf
- Intensity programmable up to 120 $\mu\text{moles}/\text{m}^2/\text{s}$ of light irradiance measured @ 6" from LEDs
- Programmable through the IntellusUltra real-time controller
- Dimmable output from 5-100% in one-percent increments

Airflow/Circulation

- Direction: horizontal
- Airspeed fpm (feet per minute): 40

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

Cabinet Construction

- Interior constructed of 22-gauge galvanized steel
- Exterior constructed of 18-gauge Galvannealed extra-smooth 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 1.25" (3.2 cm) access port with air-tight plug
- Integrated floor drain
- Contains casters assembly and adjustable leveling legs

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 epoxy coated steel wire shelving (27"D x 28.8"W [68.6 cm x 73 cm])
- I-22L: two shelves of white epoxy coated steel wire shelving (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. condensing unit (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 buildup in coil)
- Extended stem solenoid valves 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 (±0.5°C)
- I-22L: 4°-44°C (±0.5°C) lights on and 2°-44°C (±0.5°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. We developed our high-quality products through direct partnerships within the scientific community. Our controlled environments are known for their customizable designs and superior, long-lasting performance. Creativity, passion, technical expertise and attention to detail drive our scientific innovation, and we are proud to help you create better science.



Percival Scientific, Inc.

505 Research Drive • Perry, IA 50220 USA

800.695.2743 • 515.465.9363 • Fax: 515.465.9464

www.percival-scientific.com