

Drosophila

Percival® model TE-36VL

Standard IncuWhite® LED lighting



Applications

- Designed for rearing *Drosophila melanogaster*, mosquitos, other insects and many other applications such as low-cost germination

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

Please visit www.percival-scientific.com for more information on our control systems.

Heating and Cooling

- Energy-saving Peltier heating/cooling system in rear of the chamber
- Uniform air distribution across each shelf optimized via CFD-designed perforated rear plenum

IncuWhite LED Lighting System

- IncuWhite linear LEDs vertically mounted on side walls for uniform light distribution
- Intensity programmable up to 120 $\mu\text{moles/m}^2/\text{s}$ 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): 30

TE-36VL specifications (subject to change without notice)

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	
5-44±0.5	29.7	0.8	25.3	2.3	11	27.9	33.5	85.1	39.3	99.8	77.2	196.1	120	5

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Temperature Range

- 5°-44°C ($\pm 0.5^\circ\text{C}$) lights on and 2°-44°C ($\pm 0.5^\circ\text{C}$) lights off

Humidity Control (optional)

- Ultrasonic humidifier with electronic RH sensor (H14)
- Ultrasonic humidifier water requirements: distilled water or RO water from lab-supplied water hose/tubing
- Optional dehumidifier type: contact factory

See other specification sheets or contact Percival Scientific for additional information.

Cabinet Construction

- Maximizes interior volume with minimal use of floor space
- Allows chamber to fit through standard doors without disassembling critical components
- Interior and exterior constructed of painted steel with highly reflective, environmentally friendly, high-temperature baked white powder coating
- Overall wall thickness is 2" (5.1 cm)
- Integrated floor drain
- Contains caster assembly and adjustable leveling legs

Interior Space

- 29.7 ft³ (840 liters) with work area of 25.2 ft² (2.34 m²) provided on five tiers

Shelving

- Five tiers of white epoxy coated steel wire shelving (each shelf is 71 cm x 66 cm [28" x 26"])
- Slidable, non-tilt shelves in adjustable stainless steel rails (five sets provided as standard)
- Stainless steel rails are adjustable in 4 cm (1.56") increments
- Maximum clearance between equally spaced shelves is 28 cm (11") per tier with all five shelves installed
- Maximum number of shelves = 15 (optional)

Door

- One door opening 74 cm x 146 cm (29.2" x 57.5") provides full access to chamber interior
- Magnetic gasket provides a tight seal to door frame
- Right-hand swing (standard)

Electrical Service Requirements

- 115/1/60: one grounded cord with NEMA 5-15P plug provided for standard chamber
- RLA=7.9 (MCA=9.9)

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.



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