

Drosophila

Percival® model TE-36VL

Standard IncuWhite® lighting



Applications

- This chamber is frequently used for *Drosophila melanogaster*, mosquitos and other insect rearing research. Many other applications exist for this product such as simple/low cost germination and other lighted applications.

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 for additional information regarding the control system.

Heating and Cooling

- Energy saving Peltier heating/cooling system integrated in the 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
- Programming and control of the lighting is done via IntellusUltra real time controller
- Dimmable between 5-100% output

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 (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 consult factory 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 ptlok steel painted with highly reflective, environmentally friendly, high temperature baked powder coating
- Overall wall thickness 5.1 cm (2")
- Chamber floor equipped with #304-4 stainless steel interior floor with drain and hose assembly
- Contains caster assembly and adjustable leveling legs to compensate for floor unevenness in the lab

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 V, single phase, 50/60Hz, one grounded cord with NEMA 5-15P plug provided approx. 950W max.
- RLA=7.9A max (MCA-9.9A)

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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