



GENEVA SCIENTIFIC
LAB EQUIPMENT SOLUTIONS

DROSOPHILA CHAMBER - DR-41VL



Model	DR-41VL
Exterior Dimensions (WxDxH)	41" x 33.6" x 77.2"
Temp. Range (w/ lights on)	4-44C +/- 0.5C
Interior Space	37.2 cu.ft.
Total Shelving Floor Area	30.5 sq.ft.
Maximum Growing Height	9.5"
Light Intensity (6" from lamps)	75 micromoles/m2/sec
Number of Tiers	5

Applications

- *Designed especially for drosophila rearing
- *Many other applications exist for this product

Percival's IntellusUltra Controller

*Percival Scientific has built a reputation of providing flexible, customized options for research scientists around the world. We have taken the philosophy to the next level with our improved IntellusUltra Controller. Now choose from the levels of functionality that meet your needs.

Lighting System

- *Fluorescent lamps vertically mounted on each side of shelf
- *Intensity programmable up to 75 micromoles/m2/sec of light irradiance measured at 6" from lamps on 1 on/off light event
- *Programming and control of the lighting is done via IntellusUltra real time controller

Cabinet Construction

- *Interior constructed of 22-gauge electro-zinc plated steel

Cabinet Construction cont.

- *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"
- *One 1 1/4" diameter access port on R.H. wall
- *Chamber floor equipped with floor drain and hose assembly
- *Contains caster assembly and adjustable leveling legs to compensate for floor unevenness in the lab

Insulation

- *Woodless construction using CFC free insulation (overall wall thickness is 2", ample insulation for maintenance of stated temperature range)

Door

- *One door opening of 36.8" x 57.5" providing full access to chamber interior (magnetic gasket provides a tight seal to door frame)

Interior Space

- *37.2 cu.ft. with work area of 30.5 sq.ft. provided on five tiers

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Shelving

- *Five tiers of white epoxy coated steel wire shelving (each shelf is 27"D x 32.6"W)
- *Shelves are supported by shelf clips allowing 1/2" vertical adjustments
- *Maximum clearance between shelves is 9.5" per tier with all five shelves installed (and the water pan humidifier as standard)

Finish

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

Refrigeration

- *Self-contained air-cooled condensing unit with hot gas bypass system for continuous compressor operation, extended life and close temperature control (this continuous running condensing unit ensures precise temperature control by alternating cycling refrigerant and hot gas to coil; this also prolongs life of compressor, and eliminates risk of ice build up in coil)
- *Top mounted refrigeration system allows easy access for maintenance (e.g. cleaning)
- *As heat is rejected, it rises and is dissipated into the room without having any effect on inside temperature of cabinet
- *Solenoid valves have extended stem for quiet and long life operation
- *Ceiling mounted evaporator coils incorporate twin air circulation fans in aluminum housing (heat rejection to ambient with standard chamber: 3500 BTU/hr)
- *Coil is phenolic coated to prolong the life of chamber from the acidic environment that can be created by drosophila

Temperature Range

- *4-44C (+/- 0.5C) with lights on and 2-44C (+/- 0.5C) with lights off

Temperature Safety Limit Controls

- *Experiment Protection: Adjustable high and low temperature controls, audible alarms, and visual indicators provided
- *Controls shut down all power to chamber, activating alarms (when the temperature returns to the normal range the system will automatically reset)

Humidity Control

- *Additive humidity control of higher than ambient to 85% (+/-10%) lights on for set temperatures between 15C to 30C
- *Humidity control of higher than ambient to 90% (+/-10%) lights off for set temperatures between 15C to 30C
- *Humidity system requires a de-mineralized water supply line which terminates to a 1/2" MPT connector

Convenience Receptacles

- *Two 115/1/60 convenience receptacles provided inside chamber

Electrical Requirements

- *Consult Geneva Scientific for electrical requirements and amperage draw.

Options

- *Dehumidifier with Sensor
- *IntellusUltra Connect
- *Android-Based Touch Screen
- *CO2 Enrichment Package
- *Self-Contained Water-Cooled Condensing Unit
- *Dry Alarm Contacts
- *Dimmable Lighting
- *LED Lighting in Lieu of Fluorescent Lamps



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