

# Evaporator

Assembly RCO-052A

## Applications

The Evaporator with specific combination of features optimized for *Drosophila melanogaster*. Suitable for Volume of chamber for cooling: -800/ 1100 Liters with additional heat load of 500 watts.

## Accessories

Cooling Temperature range to work For : 2°C-44°C, temp resolution needed 0.5°C  
Integration with other cooling devices for smooth operation and performance with Percival Chamber model DR36VL/ DR41VL/ DR41NL/ I36VL/I36NL/I41VL/I41NL for *Drosophila* and other application pit, phenolic coated coil, air cooled, hot gas bypass system.

## DR-36VL Features

This incubator has a specific combination of features optimized for *Drosophila melanogaster*. Many other applications exist for this product Please compare your own requirements to the specifications listed below.

## Temperature Range

- 5°-44°C (±0.5°C) lights on and 2°-44°C (±0.5°C) lights off

## Refrigeration

Ceiling mounted evaporator coil incorporates twin air circulation fans in aluminum housing (Heat rejection to ambient [Standard Chamber] = 2168 BTU/hr.)

Coil is phenolic coated to prolong the life of chamber From the acidic environment that can be created by *drosophila*. Compatible with heating & cooling solenoid valve, compressor, expansion valve & controller of *Drosophila* chamber.



# drosophila

## Percival® model DR-36VL

Standard IncuWhite® lighting



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

### IncuWhite LED lighting system

Linear LEDs vertically mounted

Intensity programmable up to 120  $\mu\text{moles}/\text{m}^2/\text{s}$  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

26-gauge smooth galvanized white side walls and top reinforced with 24-gauge backer plates

Interior floor constructed of 24-gauge #304-4 stainless steel

24-gauge smooth white galvanized exterior

NSF compliant seam design

Overall wall thickness 2"

Foamed-in-place non-CFC insulation (refer to insulation section)

One 1 1/4" diameter access port on right hand wall

Chamber floor equipped with floor drain and hose assembly

Contains casters assembly and adjustable leveling legs to compensate for floor unevenness in the lab

### DR-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/fts	
5-44±0.5	29.7	0.8	27	2.5	9.5	24.1	33.5	85.1	33.6	85.4	77.2	196.1	120	5