



GENEVA SCIENTIFIC

LAB EQUIPMENT SOLUTIONS

DEW FORMATION CHAMBER - I-36DL



Model	I-36DL
Exterior Dimensions (WxDxH)	33.5" x 37.4" x 77.2"
Temp. Range (w/ lights on)	12-32C +/- 1C
Interior Space	29.7 cu.ft.
Total Shelving Floor Area	19.5 sq.ft.
Maximum Growing Height	10.5"
Light Intensity (6" from lamps)	500 micromoles/m2/sec
Number of Tiers	4

Applications

- *These chambers are designed for plant pathology studies and inoculating plants.
- *The I-36DL chamber is NOT intended for long-term plant growth
- *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'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.

Airflow/Circulation

*Natural air flow provides temperature uniformity during the dew deposition period.

Cabinet Construction

- *Interior constructed of stainless steel and aluminum with non-corrosive features that will resist chemical cleaning and disinfecting
- *Walls covered with stainless steel cooling plates to absorb radiated heat from plants (the false ceiling is tapered to prohibit drops of water from settling on plants on the top shelf)
- *Contains caster assembly and adjustable leveling legs to compensate for floor unevenness in the lab
- *Cabinet does not contain access ports on the side of the chamber

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 29.2" x 57.5" providing full access to chamber interior (magnetic gasket provides a tight seal to door frame)

Interior Space

*29.7 cu.ft. with work area of 19.5 sq.ft. provided on four shelves

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Shelving

- *One tier of white epoxy coated steel wire shelving (shelf is 27.5”D x 25.5”W)
- *Shelf is supported by shelf clips allowing 1/2” vertical adjustments
- *Maximum growing height is 10.5” provided on four tiers

Lighting System

- *Single lamp bank consists of energy efficient fluorescent lamps and incandescent lamps
- *Maximum light intensity of 500 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

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 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

Temperature Range

- *12-32C (+/- 1C) with lights on and 10-32C (+/- 0.75C) 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)

Electrical Requirements

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

Options

- *IntellusUltra Connect
- *Android-Based Touch Screen
- *Door with Observation Window and Cover
- *Self-Contained Water-Cooled Condensing Unit
- *Dry Alarm Contacts
- *Security Package
- *Temperature Recorder
- *External Drip Pan Assembly
- *Additional Shelving



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