

Controlled Environment Chamber

 **FIDELS** Model FIDELS 350/500/1250

Application/Features

- Multi-purpose Chamber Stability Testing, Seed Germination, Tissue Culture, Algae, Arabidopsis, Plant Growth, Bacterial Culturing, Drosophila Research, Insect, Reptile rearing and Research

Controller

- The control system was purpose-built for controlled environments.
- Microprocessor based PID Temperature controller with PT-100 Sensor.
- Control/front panel: control panel of our units comprises of on/off rocker switches for Power, cooling and Humidity(optional).



Construction

- Chamber Design: Double walled
- Inner chamber: Inner chamber made of steel
- Outer Chamber: Outer chamber made of Mild Steel with powder coated finish.
- Door: The door is provided with rubber gasket door closer.
- The outer door is made of mild steel sheet and finished with powder coating.
- The inner door is made of steel of.
- The door is provided with latch type lock and Bakelite/PVC handle.
- Inner Glass Door: Inner full-length glass door is provided to view the samples without disturbing the temperature
- Wheels: the unit is mounted on a sturdy steel frame with cast iron/caster wheels for easy movement.
- Integrated floor drain
- One access port with air-tight plug.

Model	FIDELS 350	FIDELS 500	FIDELS 1250
Temp. range	5°C to 50°C	5°C to 50°C	5°C to 50°C
Temp.	±0.1	±0.1	±0.1
Temp. control	PID	PID	PID
Temperature Uniformity	2°C at 37°C	2°C at 37°C	2°C at 37°C
Heater	400W	400W	400W
Safety devices	Fuse for heater, motor and compressor	Fuse for heater, motor and compressor	Fuse for heater, motor and compressor
Volume	350L	500L	1250L

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Shelving

- The unit is provided with 4 Nos. Mesh type removable Stainless Steel Rod Trays at a Fixed Distance.

Heating & Cooling

- An energy efficient cooling unit is installed in our instrument hermetically sealed compressors.
- These compressors are heavy-duty industrial type noise free; vibration free and air-cooled Compressors start in sequence to protect the unit from overloading.
- We use CFC free environmentally friendly refrigerant and compressors of Kirloskar/Tecumseh make, conforming to latest international standards and guidelines

Humidity Control (Optional)

- Humidity Range: Ambient to 80% RH
- RH Sensor-Range: 30 – 95% RH
- Resolution: 0.1%RH
- Accuracy: 5% RH

Options

- Ultrasonic Humidifier
- Ultrasonic Humidifier and Dehumidifier
- CO₂ control
- CO₂ removal system
- Dimmable lighting
- Convenience receptacles
- Extended temperature Range to 60°C

Light with timer (optional)

- 40 W x2 with time 4 diurnal programming

Electrical Environment

- Power supply: 230 Volts Single Phase 50Hz, Ac supply
- Cord #1 RLA=230 V/ 50 Hz



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