

Controlled Environment Chamber

To create replicated environmental conditions



Controlled Environment Chambers are used to create replicated environmental conditions for research sample growth and testing through temperature, humidity, Co₂, O₂ Gas and lighting control.

Application/Features

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

**Heating
Cooling
&
Humidity
Control**

Scalable Customizable Options

- * Air Heating , 6 Side Heating , Water Jacked.
- * Ultrasonic Humidifier.
- * Steam Generator Humidifier.
- * Ultrasonic Humidifier and Dehumidifier.
- * CO₂ control. - Co₂ Incubator Mode
- * O₂ Control. - Hypoxia Incubator Mode.
- * N₂ Control. - Tri-Gas Incubator Mode.
- * CO₂ removal system.
- * Dimmable Natural lighting / Grow Lighting .
- * Convenience receptacles.
- * Extended temperature 2 to 70°C.



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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.

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

Technical Parameters:

Model	LM-EVU-100B	LM-EVU-150B	LM-EVU-200B	LM-EVU-250B	LM-EVU-400B
Capacity (L)	100	150	200	250	400
Control Type	Microcomputer PID controller				
Temp. Range	0~60°C				
Temp. Fluctuation	±0.5°C				
Temp. Uniformity	±1.0°C (at 37 °C)				
Humidity Range	50~95%RH				
Humidity Fluctuations	±3~±5%RH				
Humidification Method	Built-in humidification system				
Refrigeration System	Famous brand compressor, R134a				
Heating System	Stainless steel heater				
Time Setting (h)	0~999:59				
Power Supply	AC220V±10%, 50Hz (Standard); AC110V±10%, 60Hz (Optional)				
Material	External cold-rolled steel with painting; Internal stainless steel				
Shelves	2 pcs/ adjustable				
Accessory	Standard: USB port / Testing port				
	Optional: UV lamp / BOD Socket / Printer				
Consumption	1200W	1200W	1400W	1500W	1700W
Internal Size(W*D*H) mm	500*350*580	550*401*690	600*450*750	660*450*850	658*500*1238
External Size(W*D*H) mm	644*647*1170	690*697*1270	742*743*1340	802*743*1440	845*800*1805
Packing Size(W*D*H) mm	770*795*1330	820*820*1450	880*880*1520	945*880*1720	995*940*1905
Net Weight(kg)	98.5	115	120	135	200
Gross Weight(kg)	117	135	148	165	235



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7" Touch Screen Display

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Inner + Outer: Ss304

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Inner Ss304 + Outer GPSP Powder coating

**Dimmable
Natural lighting
OR
Grow Lighting .**

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