

GROWTH CHAMBER (Size: 4'x4'x4')

Pre Fabricated Panel.

Working Size of Chamber: 6' x 6' x 8'

Light: 3 to 5 K Lux

Humidity: 40 to 90%

Technical Specification:

STRUCTURE FRAME :-

DESCRIPTION :- Anti-corrosive, Humidity resistant Powder coated Galvanized Sheets

Panel :- 60 mm PUF density 42 kg/m³ (CFC free)

Panel Joints :- Cam Lock system for leak proof insulation .

Out side and inner side Sheet: - **0.5 mm (PCGI) Pre coated GI .**

**Floor :-60mm Puff insulated marine grade 12mm ply with Anti Skid AL
Chequered sheet Corner Panel :- 12" x 12" (L) shape corner panel for leak proof
structure.**

Doors :- (Size: 6'x 3'3") Heavy gauge frame work, effective sealing gaskets for a leak proof cabine Door lock fitted with **internal safety release mechanism** against accidental locking from inside.

TEMPERATURE RANGE: 25°C - 30°C ± 2°C

Cooling System.: - Qty- 2 Nos.

Air conditioner Cooling system: CFM of air moment per sq. ft. area, Window type air conditioner 1.5 TR (2 Nos.) **(as per bio safety guidelines)** acquired by using power saving compressor (Copland make) with low voltage start with PTCR, grooved copper tubing, cooling capacity 18300 BTU/Hr., NE 1900 to achieve temperature **25°C - 30°C ± 1°C** will be provided

Microclimatic Temperature Controller (Four Set point)

Critically design for Tissue Culture Labs. Special feature of thermal safety for culture attrition.

Specifications: Real time microprocessor based user programmable Controller.

- 4 digit LED display for displaying measured values and Feather touch operation.
 - Platinum sensor probe Pt- 100 (class A, SI sensor, cable 5 m, max var $\pm 0.20^{\circ}$ C, resistance standard 100 ohms, self heating error in 0 c/mW. 0.6 in flowing air V-1 m/s and 0.24 in still air, Response time in moving air 50 % response in 6 sec. And 80 % response in 5 sec
 - Sensor failure indication
 - Display resolution 0.1° . Accuracy $\pm 0.1^{\circ}$ C.
 - Automatic hysteresis control.
 - 4 Independent powered out put.
 - One Light, One Heater and Two Air conditioners auto selectable.
 - Auto thermal safety.
 - Input- 200-240 VAC, 50 Hz. Single phase. Ambient 5° - 50° C, RH upto 90%.
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Programmable Photoperiodic (Photoperiodism) Controller

Specifications :

- Real time microprocessor based.
 - Clock Accuracy ± 2.5 sec/day@ 20° C
 - 1 Channel
 - Week Program
 - 16 memory locations adjustable to the minutes.
 - Auto summer and winter time changing.
 - 1500 Hrs. Running reserve.
 - Random switching can be activated by pressing any key
 - RED LED indication for ON operation.
 - PROGRAM SAVING BY EEPROM
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Microclimatic Humidity Controller :-

Specification: Real Time microprocessor based.

- On/Off control for Humidifying / Dehumidifying.
 - Hysteresis/ Differential 1% - 9%.
 - Direct / Reverse selectable.
 - Feather touch operation.
 - Fast response sensor – line resistance < 10Ω Display Accuracy – indicating value $\pm 0.2\% \pm 1$ digit.
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Ultrasonic Humidifier:- Qty – 1 No.

Ultra Sonic Vapour Humidifier, it creates the simulated natural humidity in Tissue Culture Room, Growth Room, Hardening Room or any specific room without disturbing the inside TEMPERATURE because vapour comes out in cold form.

Salient Features :

1. Optimum Utilization of water.
2. Instant Vaporization (STARTS).
3. No thermal losses.
4. Automatic water selection system.
5. Auto off incase of non availability of water.
6. Low electrical consumption.