

Introduction

Tissue Culture Room

The Tissue Culture Room provides a multi-tier modular platform. This makes the Tissue Culture Room chamber suitable for research involving plant tissue culture and is often used within large micro propagation programs. The solid side wall plenums transfer air to individual air shelves ensuring upward airflow from each individual shelf, which is essential to mitigating condensation within media dishes Tissue Culture Room.



AN **ISO 9001:2008** CERTIFIED COMPANY

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Plant Tissue Culture Room

Product Descriptions:

Material of Construction & Design:

Pre Fabricated Panel, of international quality and manufactured using the latest technology of cam locks with tongue and groove joints for all the panels. The use of cam locks assembly provides perfect alignment of all the panels such as walls, ceiling, floor, corner panels and door frame. The panels should be re light in weight, fabricated using pre-painted galvanized sheets or stainless steel. The flooring insulation is to be initially covered with Marine plywood, which is covered with anti-slip aluminium checkered sheet to ensure easy maintenance and handle heavy loads. Door locks are standard, magnetically, Contains two access ports (one on each side), providing with Convenient access to connect instrumentation.

Controlling Part: Consists of Temperature, Humidity, and Illumination:

These chambers must offer a wide temperature range with excellent uniformity and control, robust refrigeration system manages lamp heat and reliable for years of trouble-free operation at continuous 24/7 set point with no defrost cycle or temperature spikes. With carefully designed horizontal air flow System generates evenly distributed airflow. Front access to electrical board and airFilter makes the chamber easy to maintenance. HMI touch screen controller, intuitive and user-friendly display. The user interface includes a configurable In the event of a power failure

Non-volatile memory allows the chamber to return to its original set point when power is restored. Sealed, self-closing and light-tight solid doors are 1.5" thick and insulated for optimal chamber performance. LED-lighting technology Humidification is maintained by injection of sterile steam at ambient pressure, Airflow is downwards from ceiling mounted ducts to Minimize temperature variations in the plant canopy. Fresh air is exchanged at up to 4 volumes per hour. Exhaust air is filtered and fan assisted.

Controller Specification:

Sensor failure indication, Display resolution 0.1°.Accuracy $\pm 0.1^{\circ}\text{C}$, Automatic hysteresis control. 4 Independent powered out put **One Light, One Heater and Two Air conditioners auto selectable** Input- 200-240 VAC, 50 Hz. Single phase. , Ambient 5°-50°C, RH up to 90%.

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Programmable Photoperiodic Controller

Real time microprocessor based. Clock Accuracy $\pm 2.5\text{sec/day@}20^{\circ}\text{C}$ 1 Channel, Week Program, 6 memory locations adjustable to the minutes. 1 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

Sequential Timer

It operates two air conditioners each alternately directly from the powered output. Technical Specifications: - Minimum ON/OFF time 15 / 30 minutes, NICAD battery auto recharging facility Powered output can drive Two 1.5 Ton Air conditioner alternately, Auto — Manual Selector switch Thermal safety 16 Amp inbuilt, Accuracy 18 sec/day, Input 200 V to 240 V.A.C, Phase-Single, 50 Hz. Ambient 5°C to 50°C , RH up to 95%.

Cooling System

Copiously designed condenser for tropicalised operation with seamless grooved copper pipe cooling coil

- ❖ **Accumulator** Handles flood-back effectively, drain hole at bottom for field cleaning if required, screen for oil return orifice.
- ❖ **Heating System:** - Heavy duty Paralytic Technique Which is ideal for heating in biotech work.

Humidity Controller

Real Time microprocessor based. On/Off control for Humidifying/ Dehumidifying. Hysteresis / Differential 1% - 9%. Direct / Reverse selectable Lock functions to prevent miss operating. Feather touches operation. **Sensor:-** Fast response sensor — line resistance $< 100\Omega$ Display Accuracy- indicating value $10.2\% \pm \text{digit}$. **Input-** 200-240 VAC, 50 Hz. Single phases. , Ambient 5° - 50°C , RH up to 90%.

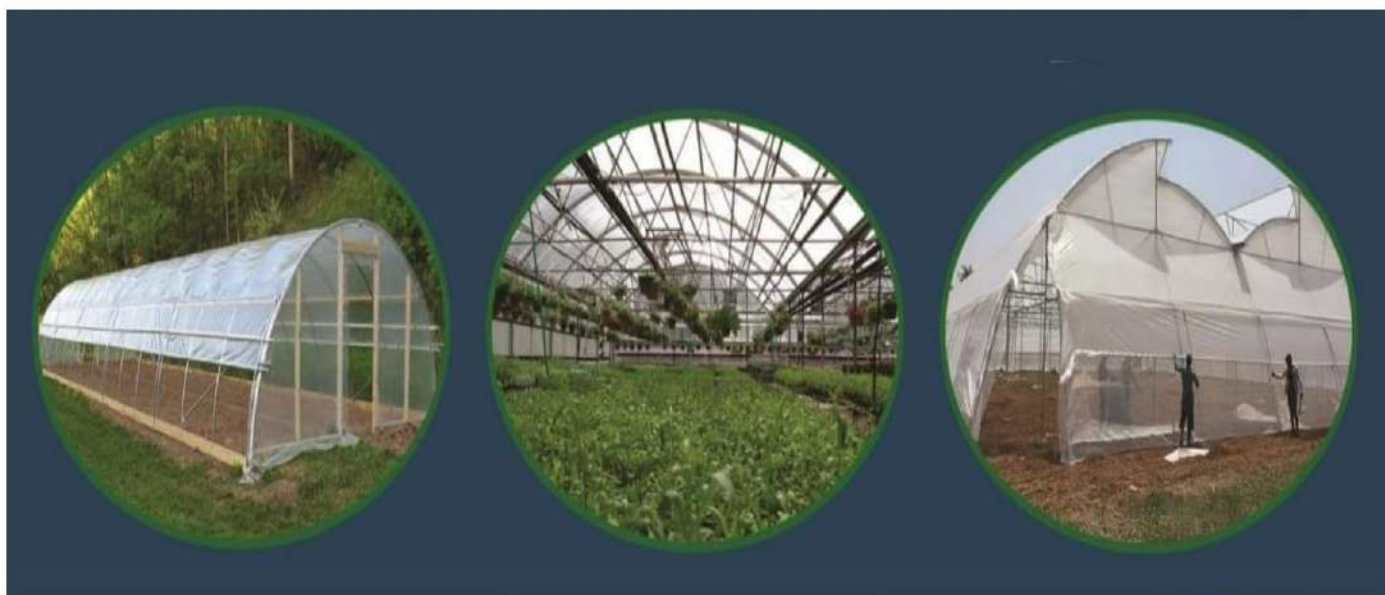
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POLY HOUSE OR GREEN HOUSE

We offer wide ranges of possibilities for the supply of material and erection of Green House / Poly Houses / Shade Net houses and for improvements and changes in existing structures. With knowledge of all phases of plant production we also provide green house facilities to growers including structure, variety of coverings and all green houses equipment and systems...

ACTIVITIES:

- ◆ *Naturally Ventilated Poly House for Commercial Cultivation of Flowers Exotic Vegetables.*
- ◆ *Poly House with Fan & Pad Evaporation Cooling Systems for Hardening of Tissue Culture Plants.*
- ◆ *Poly Carbonate as Green House Covers.*
- ◆ *Tunnels / Shade Net Houses for Vegetable and Plant Nurseries.*
- ◆ *Evaporate Cooling System with Automation.*
- ◆ *Heating System with Automation.*
- ◆ *Internal Shading System, Thermal Screen & External Shading System.*
- ◆ *Design and Execution of Green House Cultivation Projects.*
- ◆ *Turn Key Projects for all type of Green Houses / Shade Net House and it's System.*
- ◆ *Supply and Delivery of Component.*
- ◆ *Accurate Erection with Our Own Expert Technicians*



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