Equipaxis
Where Innovation meets Precision

PLANT GROWTH CHAMBER

Advanced Environmental Control for Precision & Plant Research

INTRODUCTION

Equipaxis Plant Growth Chamber is a high-performance environmental control system designed to deliver precise, reliable, and consistent conditions for plant research and development. Ideal for laboratories, research institutions, and agricultural applications, it enables accurate simulation of natural growth environments.

With advanced PID-based temperature control, high humidity accuracy, and programmable photoperiod settings, the system ensures optimal conditions for every stage of plant growth—from germination to maturity—delivering repeatable and dependable results.

KEY FEATURES

Advanced Environmental Control
Precise control over temperature, humidity, light intensity, and photoperiod ensures ideal conditions for plant growth and experimental accuracy.

Flexible & Customizable Operation
Wide operating range with adjustable temperature (5°C to 60°C), humidity up to 95% RH, and programmable photoperiodic lighting for diverse research needs.

Uniform & Stable Performance
Efficient air circulation system ensures uniform temperature and humidity distribution across all shelves for consistent plant growth.

Integrated Illumination System
LED lighting inside the chamber provides optimal light conditions and clear sample visibility.

Robust Construction
Double-walled chamber with stainless steel interior and powder-coated GI exterior ensures durability and long-term performance.

Energy Efficient Design
High-quality insulation (Glass wool / PUF) minimizes heat loss and optimizes power consumption.

User-Friendly Interface
Digital display with PID controller allows easy monitoring and precise control of environmental parameters.

Practical & Secure Design
Removable wire mesh shelves, acrylic inner door, and key lock system enhance usability and safety.

Controlled Environments for Reliable Growth.

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SPECIFICATIONS

Temperature Range	5°C to 60°C
Temperature Accuracy	±1°C
Temperature Uniformity	±1°C
Humidity Range	Up to 95%
RH Accuracy	±5% RH
Humidity System	Water Reservoir at back
Shelves	3 Wire Mesh
Type of Shelves	Removable
Temperature Controller	PID Controller
Display	Digital Display
temperature uniformity.	Air Circulating Fan
Illumination	LED Light inside the Chamber for Sample Viewing
Inner Chamber Material	Stainless Steel
Outer Body Material	GI sheet powder coated
Insulation	Glass wool / PUF (Polyurethane Foam)
Inner door material	Acrylic Sheet
Photoperiod Control	With Photoperiodic Timer
Working Environment	Controlled Atmospheric Conditions
Chamber Construction	Double walled
Door	With Key Lock
Power Supply	220/230V AC

AVAILABLE MODELS

Model No	Chamber Dimensions	Chamber Capacity
EA401	22X22X36" (550X550X900mm)	10 Cubic ft
EA402	24X24X36" (600X600X900mm)	12 Cubic ft
EA403	28X28X36" (700X700X900mm)	16 Cubic ft
EA404	30X30X42" (750X750X1050mm)	20 Cubic ft

SAFETY FEATURES

- PID Controlled Temperature Safety System
- Double-Walled Insulated Chamber Protection
- Secure Door Lock Safety Mechanism
- Controlled Humidity & Airflow Protection
- Electrical & Thermal Overload Protection

Scan to know more

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