

PLANT GROWTH CHAMBER

IG-1600GC



IGENE LABSERVE
Innovative • Interactive • Intuitive

ABOUT THE COMPANY

iGene Labserve Pvt. Ltd. is gaining recognition by offering resilient, innovative solutions in laboratory instrumentation across healthcare, genomics, drug discovery, biopharma, and food & beverage sectors. We strive to enhance lab efficacy and reduce challenges through advanced technologies and a diverse product portfolio tailored to our customers' needs.

PRODUCT OVERVIEW:

The Plant Growth Chamber is designed to provide a precisely controlled environment for plant cultivation, research, and experimentation. Equipped with advanced temperature, humidity, and lighting control, it ensures optimal growth conditions for various plant species.

Features

- Advanced control with a color touchscreen for monitoring and adjusting temperature and humidity. Data monitoring and storage are provided, along with a USB interface for easy data transfer.
- Fully Programmable System: User-programmable settings for temperature, lighting, and humidity.
- Durable Chamber Construction: Double-walled chamber made from corrosion-resistant galvanized steel.
- Modular Lighting Shelves: Five independently programmable shelves with adjustable light intensity through the controller.
- Efficient Door Sealing: Magnetic door gasket ensures airtight sealing and stable internal conditions.
- Self-Contained Cooling System: Air-cooled condensing unit with CFC-free refrigerant for eco-friendly operation.
- Reliable Refrigeration Components: Equipped with solenoid valves and a hot gas bypass system for enhanced performance.
- Dual Safety Protection: Integrated independent temperature limit shutdown for experiment and system protection.
- Alarms: Alerts for temperature deviation to ensure real-time monitoring.
- Auto Recovery: System automatically resets when temperature returns to normal after a power failure.
- Password Protection for Controller: Added security for the settings to avoid unintended alterations.
- Drainage Provision: Condensate/floor drain port included for easy maintenance.



SPECIFICATIONS

Capacity	1640 Ltr
Temperature Range	3°C to 45°C (lights ON/OFF)
Temp. Fluctuation	±0.5°C
Temp. Uniformity	±0.5°C
Temperature controller	Microprocessor PID controller
Humidity Range	50%RH to 90%RH (lights ON/OFF)
RH Fluctuation	±2%RH
RH Uniformity	±3%RH
Humidity controller	Microprocessor PID controller
Light	LED White, Dimmable 0–100% Intensity: 500 μ mol/m ² /s @ 10 cm
Construction	corrosion resistant galvanized steel
Chamber	Dual Chamber
Display	Advanced Color Touchscreen Control
Alarm	Audio / visual alarm for temperature deviation
Exterior Dimensions	2254×823×2010mm
Power supply	220 Volts/ 50 Hz

