

Plant Growth Chamber



Plant Growth Chamber

Model: MSGMJ250SWISS

Dimensions: 600x500x840 mm

Volume: 250L

Illumination Range:

- With illumination: 10–65°C
- Without illumination: 0–65°C
- Illumination Intensity: 0–30,000 LUX adjustable with multiple levels

Display and Programming

- **Display:** 7.0-inch color touch screen for easy operation.

- **Program:** 30 sections programmable for temperature and illumination settings.

Adjustable Features

- **Illumination Plates:** 4 adjustable plates for flexibility in lighting.

Applications

1. Plant growth and development.
2. Seed germination experiments.
3. Plant and small animal breeding.
4. Insect cultivation.
5. Bacterial culture.
6. Fermentation studies.
7. General experiments requiring constant temperature and lighting.

Product Introduction

The MSGMJ250SWISS plant growth chamber is designed for light-dependent experiments and cultivation, including microorganisms, cell tissue, seeding, insects, and small animals.

Key Characteristics

- **Double Door Structure:** High-quality stainless steel with observation window.
- **7-Inch Touch Screen Display:** Facilitates viewing historical data and programming auto start/stop.
- **Full-Spectrum LED Light Source:** Adjustable up to 30,000 LUX with programmable temperature and illumination.
- **Efficient Cooling System:** Enhanced service life via backflow and expansion valve controls.
- **Precision Control:** Digital independent temperature regulation.

- **Premium Components:** Imported temperature sensors and compressors for reliability.

Main Technical Parameters

Feature	Specification
Cycle Mode	Forced convection
Temperature Range	0–65°C (Without Illumination)
10–65°C (With Illumination)	
Resolution Ratio	0.1°C
Temperature Uniformity	±1.0°C
Illumination Intensity	0–30,000 LUX (Adjustable)
Volume	250L
Load Per Rack	15kg
Shelf Quantity	4 adjustable illumination plates

Structural Features

- **Material:** SUS304 stainless steel inner chamber with polyurethane insulation and electrostatic exterior.
- **Light Barrier:** Four-layer LED lamp board for optimized illumination.
- **Compressor:** Imported, air-cooled, sealed, R134a refrigerant.
- **Defrosting:** Automatic system.

Controller and Safety

- **Controller:** Touchscreen with 30-segment programming.
- **Safety Features:**
 - Power failure compensation.
 - Overheating and long-term failure protection.
 - Diagnostic capabilities for continuous monitoring.

Accessories and Options

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- **Standard Accessories:** Light barrier, shelves, USB interface.
 - **Optional Add-Ons:** Printer, wireless SMS alarms, CO2 concentration control systems.