

## Plant Growth Chamber with Tissue Culture Facility



### Plant Growth Chamber with Tissue Culture Facility

**Model: MSGQH250SWISS**

**Volume: 250 L**

#### **Features and Capabilities:**

- **Temperature Range:**
- **Without Illumination: 5–65°C**
- **With Illumination: 10–65°C**
- **Illumination Range: 0–30,000 Lux (adjustable in multiple degrees)**
- **Humidity Range: 40%–95% RH**
- **Screen: 7.0-inch true color touchscreen**
- **Programmable: 30 sections for temperature, humidity, and illumination**
- **Lighting Plates: Includes 4 adjustable illumination plates**

#### **Primary Usage:**

Designed for light culture of microorganisms, cell tissue, seedlings, insects, and small animals under controlled humidity conditions.

**Key Characteristics:**

**1. Structure:**

- Double-door design with high-quality starlite glass for clear observation.

**1. Touch Screen:**

- Large 7.0-inch true color display allows users to view historical temperature data and schedule operations conveniently.

**1. Light Source:**

- Full-spectrum LED top light offering low thermal radiation, long service life, and adjustable partitions for flexibility.

**1. Humidity System:**

- Built-in humidifier for uniform humidity distribution, efficient water consumption, and automatic water refills.

**1. Evaporation Control:**

- Equipped with backflow valves and compressors for enhanced durability.

**1. Sensors:**

- Features high-quality imported temperature and humidity sensors with a reliable compressor.

**Technical Specifications:**

Parameter	MSGQH250SWISS
Cycle Mode	Forced convection, rear microprocessor airflow
Temperature Range	Without Illumination: 5–65°C; With Illumination: 10–65°C
Temperature Resolution	± 0.1°C
Temperature Uniformity	± 1.0°C
Illumination	Full spectrum: 0–30,000 Lux, adjustable
Humidity Range	40%–95% RH
Humidity Resolution	± 5% RH
Inner Chamber Material	SUS304 Stainless Steel
Outer Shell	Cold-rolled steel with electrostatic spray finish
Insulation Material	Polyurethane

Light Barrier	Four-layer full-spectrum LED lamp board
Heater	Stainless steel heating tube
Power Rating	2.0 kW
Compressor	Imported air-cooled sealed compressor
Coolant	R134A
Defrosting Structure	Automatic
Humidity Control	Automatic
Valve Port Diameter	10 mm
Temperature Control	30 sections programmable
Display Mode	7.0-inch true color touchscreen
Program Features	Fixed temperature operation, auto-timing, program scheduling
Sensor	PT100 temperature sensor; Imported chip humidity sensor
Safety Features	Over-temperature auto-shutdown, system diagnostics for compressor and temperature malfunctions
Inner Chamber Size (WxLxH)	600x500x840 mm
Exterior Size (WxLxH)	794x720x1860 mm
Packing Size (WxLxH)	893x825x1850 mm
Volume	250 L
Net/Gross Weight	225/255 kg
Shelf Space	120 mm
Number of Shelves	4

#### Optional Accessories:

- Light barrier
- USB interface with computer software
- Printer
- Wireless SMS alarm
- CO2 concentration control

#### Safety Features:

- Automatic shut-off for overheating.
- System diagnostics for compressor failure or temperature irregularities.