Climate Chamber 173-516 L, 6000 lx LED, 40-95% RH, 0-65°C, Humidity and Light Control, USB

Model MSICB-CC180YSWISS,MSICB-CC290YSWISS,MSICB-CC400YSWISS,MSICB-CC520YSWISS | Brand Master Science







The Master Science Climate Chamber with Light and Humidity controls the three factors that matter most for living samples and many material tests: light, temperature and humidity. It suits seed germination, seedling growth, insect rearing, microbial culture and ageing tests on wood, herbs or building materials.

KEY HIGHLIGHTS

- Light, heat and humidity in one
- Adjustable lighting
- Long unattended runs
- Recorded results

AT A GLANCE

10-65°C with lighting; 0-65°C without lighting TEMPERATURE RANGE	**40-95% RH (chamber above 10°C)** HUMIDITY RANGE
173 / 288 / 400 / 516 L CAPACITY	**2000 / 2000 / 3000 / 3000 W** POWER CONSUMPTION

Request a Quotation
Contact us for pricing, configuration options and delivery details.

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Overview

A single-sided LED panel gives up to 6000 lux in five steps. Temperature runs from 0 to 65°C without light or 10 to 65°C with light on, and humidity from 40 to 95% RH above 10°C, supplied by a heated water tank with an automatic refill connection. The PID controller stores a 24-segment program, and data is saved to USB as standard. Four sizes run from 173 to 516 litres.

If you do not need humidity control, see our LED illumination incubator 173-516 L next to the Master Science Climate Chamber with Light and Humidity.

Plant and material tests suffer when light, temperature or humidity drift. The Master Science Climate Chamber with Light and Humidity addresses:

Overview

- PID temperature control, ±0.1°C
- Humidity 40-95% RH, ±1% RH control
- Fan-driven micro airflow for uniformity

Key Benefits

Light, heat and humidity in one
The Master Science Climate Chamber with Light and Humidity simulates full growing or storage conditions.

Adjustable lighting
Five LED levels up to 6000 lux suit different plants.

Long unattended runs
Automatic water refill keeps humidity supplied.

Recorded results
USB storage logs every test.

Technical Specifications

GENERAL

General	Specifications of the Master Science Climate Chamber with Light and Humidity range:
Brand	Master Science
Model Number	MSICB-CC180YSWISS,MSICB-CC290YSWISS,MSICB-CC400YSWISS,MSICB-CC520YSWISS
SKU	MSICB-CC180YSWISS,MSICB-CC290YSWISS,MSICB-CC400YSWISS,MSICB-CC520YSWISS
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SKU	MSICB-CC180YSWISS, MSICB-CC290YSWISS, MSICB-CC400YSWISS, MSICB-CC520YSWISS
Capacity	**173 / 288 / 400 / 516 L**
Circulation	Forced convection
Temperature range	**10-65°C with lighting; 0-65°C without lighting**
Temperature uniformity	±1°C
Temperature fluctuation	±0.5°C
Temperature control accuracy	**±0.1°C**
Humidification	Built-in electrically heated water tank
Illumination	6000 lx, single-sided LED
Light control	5 levels
Controller	PID, 24-segment program
Shelves	3
Test port	Ø35 mm
Alarms	Over and under temperature; temperature and humidity probe failure
Chamber	SUS304 stainless steel
Exterior	Powder-coated cold-rolled steel

DIMENSIONS & WEIGHT

Internal dimensions (W×D×H)	550 × 450 × 700 / 600 × 600 × 800 / 800 × 550 × 910 / 800 × 710 × 910 mm
External dimensions (W×D×H)	700 × 840 × 1590 / 800 × 990 × 1690 / 1000 × 910 × 1800 / 1000 × 1070 × 1800 mm
Net / gross weight	165/209, 203/256, 218/278, 237/297 kg

ENVIRONMENT	
Humidity range	**40-95% RH (chamber above 10°C)**
Humidity fluctuation	±3% RH
Humidity control accuracy	**±1% RH**
Uncontrolled humidity	Closed-loop control holds the set RH.

DISPLAY & DATA	
Display	LCD
Data storage	USB

POWER	
Power supply	1 phase, 220 V, 50 Hz
Power consumption	2000 / 2000 / 3000 / 3000 W

GROWTH STUDY PROBLEMS THE MASTER SCIENCE CLIMATE CHAMBER WITH LIGHT AND HUMIDITY SOLVES	
Inconsistent lighting	LED light is set in fixed, repeatable steps.
Water running out	Automatic refill and dry-tank protection.
No experiment record	USB logging stores the data.

Applications

The Master Science Climate Chamber with Light and Humidity is used for: Seed germination and seedling cultivation Insect and small animal rearing Microbial culture under light BOD determination in water monitoring Ageing tests of herbs, wood and building materials

Lighting and humidification

- Single-sided LED panel, 6000 lx
- 5-level light adjustment
- Heated water tank with automatic refill
- Dry-tank heater cut-off

Usability

- 24-segment program
- Power-failure memory
- USB data storage; Ø35 mm test port
- Pull-out shelves; casters; rounded SUS304 chamber

Standard Accessories Included

- Climate chamber
- Shelves ×3

Optional Accessories

- Independent external temperature protector
- Micro thermal printer or dot-matrix printer