Constant Temperature and Humidity Chamber 173-516 L, 0-65°C, 40-95% RH, 24-Segment Program, USB

Model **MSICB-H180YSWISS,MSICB-H290YSWISS,MSICB-H400YSWISS,MSICB-H520YSWISS** | Brand **Master Science**









The Master Science Constant Temperature and Humidity Chamber controls both temperature and relative humidity, so it can simulate the storage and climate conditions that products and materials face in real life. It is used for stability checks, shelf-life work and packaging tests in pharmaceuticals, food, textiles and other industries.

KEY HIGHLIGHTS

- Two variables under control
- Runs unattended longer
- Protects its heater
- Ready for documentation

AT A GLANCE

0 to 65°C 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

Temperature runs from 0 to 65°C with ±0.1°C control accuracy, and humidity from 40 to 95% RH (above 10°C chamber temperature) with ±1% RH control. Humidity comes from a heated water tank inside the unit, with an automatic refill connection and a dry-tank cut-out. The PID controller stores a 24-segment program, data is saved to USB, and a Ø35 mm test port is fitted as standard.

For wider ranges down to –5°C and 15% RH, see our temperature and humidity chamber 103-1022 L beside the Master Science Constant Temperature and Humidity Chamber.

Room conditions vary too much for reliable stability and ageing tests. The Master Science Constant Temperature and Humidity Chamber helps with:

Technical Specifications

GENERAL

General	Specifications of the Master Science Constant Temperature and Humidity Chamber range:
Brand	Master Science
Model Number	MSICB-H180YSWISS,MSICB-H290YSWISS,MSICB-H400YSWISS,MSICB-H520YSWISS
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SKU	MSICB-H180YSWISS, MSICB-H290YSWISS, MSICB-H400YSWISS, MSICB-H520YSWISS
Capacity	**173 / 288 / 400 / 516 L**
Circulation	Forced convection
Temperature range	**0 to 65°C**
Temperature uniformity	±1°C
Temperature fluctuation	±0.5°C
Temperature control accuracy	**±0.1°C**
Humidification	Built-in electrically heated water tank
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, rounded corners
Exterior	Powder-coated cold-rolled steel
Refrigerant	CFC-free

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 humidity control holds ±1% RH.

DISPLAY & DATA

Humidity display accuracy	**1% RH**
Display	LCD
Data storage	USB

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

TESTING PROBLEMS THE MASTER SCIENCE CONSTANT TEMPERATURE AND HUMIDITY CHAMBER SOLVES	
Frequent water top-ups	Automatic refill keeps the humidifier supplied.
Heater damage from dry running	The no-water cut-out protects the heater.
Missing test records	USB storage captures data automatically.

Key Benefits

Two variables under control
The Master Science Constant Temperature and Humidity Chamber regulates temperature and humidity together.

Runs unattended longer
The water tank has an automatic refill connection.

Protects its heater
Humidifier power cuts off if the tank runs dry.

Ready for documentation
USB data storage records each test.

Applications

The Master Science Constant Temperature and Humidity Chamber is used for: Pharmaceutical stability testing Shelf-life and packaging studies Raw material and product performance tests Sterility testing support Textile and food quality testing

Climate control

- 0-65°C, ±0.1°C control accuracy
- 40-95% RH, ±1% RH control accuracy
- Fan-driven micro airflow for uniformity
- CFC-free refrigeration

Humidification and safety

- Built-in heated water tank
- Automatic water refill interface
- Dry-tank heater cut-off
- Over and under temperature and probe failure alarms

Usability

- PID controller with 24-segment program
- Power-failure memory
- USB data storage; Ø35 mm test port
- Removable shelves; casters; rounded SUS304 chamber

Standard Accessories Included

- Temperature and humidity chamber
- Shelves ×3

Optional Accessories

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