Compact Stability Chamber 70-250 L, 45-95% RH, 5-65°C, 30-Segment Program, Glass Inner Door

Model **MSICB-H70SWISS,MSICB-H150SWISS,MSICB-H250SWISS** | Brand **Master Science**





The Master Science Compact Stability Chamber brings temperature and humidity control into a smaller footprint, with sizes from 70 to 250 litres. It suits labs that run stability or storage studies on a modest number of samples and do not need a walk-in or large cabinet.

KEY HIGHLIGHTS

- Small footprint, full control
- Check samples without upsetting them
- Program long studies
- Double safety

AT A GLANCE

5-65°C without humidification; 10-60°C with humidification TEMPERATURE RANGE	**45-95% RH** HUMIDITY RANGE
70 / 150 / 250 L CAPACITY	**1800 / 2000 / 2200 W** POWER CONSUMPTION

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

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www.themsci.com

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Overview

Without humidification the chamber covers 5 to 65°C; with humidity control it works from 10 to 60°C and 45 to 95% RH. A PT100 sensor and PID controller handle temperature, a capacitive humidity sensor with anti-condensation design handles RH, and a 30-segment program allows step and loop profiles. Double doors with a glass inner door let you look at samples without disturbing the climate inside.

For larger loads, see our temperature and humidity chamber 173-516 L, a bigger option than the Master Science Compact Stability Chamber.

Small labs often lack a dedicated, controllable climate for stability work. The Master Science Compact Stability Chamber helps with:

Key Benefits

Small footprint, full control
The Master Science Compact Stability Chamber manages both temperature and humidity in 70 to 250 L.

Check samples without upsetting them
A glass inner door keeps conditions stable while you look.

Program long studies
30 segments with loops and timed waits.

Double safety
Electronic alarms plus an independent mechanical limiter.

Technical Specifications

GENERAL

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SKU	MSICB-H70SWISS, MSICB-H150SWISS, MSICB-H250SWISS
Capacity	**70 / 150 / 250 L**
Circulation	Forced convection
Temperature range	**5-65°C without humidification; 10-60°C with humidification**
Fluctuation	±0.5°C (high temperature), ±1°C (low temperature)
Resolution	0.1°C
Uniformity	±1°C
Temperature sensor	PT100
Humidification	Internal
Controller	PID
Timer	0-99.99 h × 30 segments, with timed wait
Chamber	Mirror stainless steel
Exterior	Electrostatically coated cold-rolled steel
Shelves (standard / max)	2/5, 2/9, 2/12
Test port	Ø43 mm
External socket	1 universal socket
Refrigerant	R134a (CFC free)
Defrost	Automatic
Safety	Over-temperature, over-humidity and water shortage alarms; mechanical independent temperature limiter
Display	Large LCD

DIMENSIONS & WEIGHT

Internal dimensions (W×D×H)	415 × 350 × 500 / 490 × 400 × 750 / 500 × 515 × 950 mm
External dimensions (W×D×H)	571 × 661 × 1051 / 646 × 711 × 1301 / 656 × 811 × 1501 mm
Net / gross weight	69/92, 86/114, 100/139 kg

ENVIRONMENT	
Humidity range	**45-95% RH**
Humidity stability	±5% RH
Humidity sensor	High-precision, anti-condensation
No controlled humidity	Built-in humidification holds 45-95% RH.

POWER	
Power supply	AC 220/110 V, 50/60 Hz
Power consumption	1800 / 2000 / 2200 W

TESTING PROBLEMS THE MASTER SCIENCE COMPACT STABILITY CHAMBER SOLVES	
Conditions disturbed by checks	The glass inner door keeps the climate stable.
Running out of water unnoticed	A water shortage alarm warns in time.
Controller failure risk	An independent mechanical limiter adds protection.

Applications

The Master Science Compact Stability Chamber is used for

Pharmaceutical stability studies Food and cosmetic shelf-life testing Electronic component humidity testing Material and packaging ageing Seed and biological sample storage under set humidity

Climate control

- PT100 sensor with PID control
- Capacitive humidity sensor, anti-condensation
- Internal fine-particle humidifier with low water use
- Automatic defrost for long runs

Programming and display

- Large LCD with multiple values at once
- 30-segment program with loops and step running
- Loop self-diagnosis and sensor fault alarms

Construction and safety

- Mirror stainless steel chamber
- Double door: glass inner door, magnetic outer seal
- Mechanical independent temperature limiter
- Water shortage alarm

Standard Accessories Included

- Stability chamber
- Shelves ×2

Optional Accessories

- Spare shelves
- RS485 port
- Built-in printer
- USB data storage