Constant Temperature Humidity Chamber - Stability Test Chamber - -5 to 70°C - 15-95% RH

Model **MSICB-H103YHSWISS, MSICB-H152YHSWISS, MSICB-H253YHSWISS, MSICB-H412YHSWISS, MSICB-H722YHSWISS, MSICB-H1022YHSWISS** | Brand **Master Science**







The Master Science Temperature Humidity Chamber holds samples at controlled temperature from -5 to 70 °C and humidity from 15 to 95 % RH for long-term stability testing of pharmaceuticals and quality checks of food, tobacco and cosmetics. It is also used for ageing and water absorption tests on paints and resins and for reliability testing of electronics, automotive parts and metals.

KEY HIGHLIGHTS

- Stable long-term conditions
- Even conditions throughout
- Less refilling
- Traceable data
- Ramp and cycle programs

AT A GLANCE

-5 to 70 °C TEMPERATURE RANGE	**15 to 95 % RH** HUMIDITY RANGE
103, 152, 253, 412, 722, 1022 L CAPACITY	**0.1 °C** TEMPERATURE RESOLUTION

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

support@themsci.com
www.themsci.com

Scan to view online

Overview

A frost-free refrigeration design avoids the drift and swings that defrost cycles cause, so conditions stay steady over long studies. Six sizes run from 103 to 1022 litres.

Specifications of the Master Science Temperature Humidity Chamber range (103 / 152 / 253 / 412 / 722 / 1022 L):

Key Benefits

Stable long-term conditions
the Master Science Temperature Humidity Chamber is frost-free.

Even conditions throughout
diffusion-type air duct system.

Less refilling
automatic water supply and recycling.

Traceable data
USB recording to printer or flash drive.

Ramp and cycle programs
30 segments with 99 cycles.

For CO2 cell culture, see the Master Science CO2 incubator.

Technical Specifications

GENERAL

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Capacity	**103, 152, 253, 412, 722, 1022 L**
Circulation	Forced convection, balanced type, 3-speed fan
Temperature Range	**-5 to 70 °C**
Temperature Resolution	0.1 °C
Temperature Fluctuation	±0.2 °C (103-253 L); ±0.5 °C (412-1022 L)
Temperature Uniformity	±0.5 °C (103-253 L); ±1 °C (412-1022 L)
Controller	Programmable fuzzy PID, 30 segments, 99 cycles
Shelves (standard)	2 / 3 / 3 / 4 / 4 / 4, SUS304, adjustable
Test Port	Ø40 mm with silicone plug
Protection	Compressor overheat, over-current and over-pressure; phase sequence and loss; leakage and short circuit; overload; water shortage; over-temperature cut-off

ENVIRONMENT

Humidity Range	**15 to 95 % RH**
Humidity Fluctuation	±1 % RH (103-253 L); ±1.5 % RH (412-1022 L)
Ambient Temperature	5 to 30 °C
Humidity swings during defrost	frost-free system.

DISPLAY & DATA

Data	USB port for printer or flash drive
No data for audits	USB logging.

DIMENSIONS & WEIGHT

Internal Dimensions (W × D × H)	480 × 390 × 550 / 500 × 460 × 660 / 640 × 460 × 860 / 560 × 530 × 1390 / 980 × 530 × 1390 / 980 × 750 × 1390 mm
External Dimensions (W × D × H)	645 × 700 × 1255 / 665 × 780 × 1360 / 800 × 780 × 1570 / 1025 × 810 × 1735 / 1445 × 810 × 1735 / 1445 × 1030 × 1735 mm

POWER	
Power Supply	AC 220 V, 50 Hz
Power Consumption	1300 / 1400 / 2000 / 2500 / 3500 / 3800 W

COMMON LABORATORY PROBLEMS AND HOW THIS CHAMBER HELPS	
Common Laboratory Problems and How This Chamber Helps	How the Master Science Temperature Humidity Chamber supports reliable testing:
Frequent water refilling	automatic replenishment.
Opening the door disturbs conditions	tempered glass inner door for viewing.

Applications

The Master Science Temperature Humidity Chamber is used for
Pharmaceutical stability storage Food, tobacco and cosmetics quality tests Paint and resin ageing and water absorption Electronics reliability testing Automotive parts and metal materials

Climate Control

- -5 to 70 °C, 15 to 95 % RH
- Frost-free design
- Hot gas bypass refrigeration control

Program and Data

- Wide-screen display
- 30-segment, 99-cycle programs
- USB data output

Construction

- 4-point locking door handle
- Tempered glass inner door
- Triple polyurethane insulation, SUS304 chamber