Temperature and Humidity Stability Chamber, 253 L, –5 to 70 °C

Model **ICB-H253YH, MSICB-H253YHSWISS** | Brand **Master Science**



Stability Test Chamber

The Master Science constant temperature humidity chamber provides a stable, controlled climate for long-term stability studies. Its 253 L chamber holds -5 to 70 °C and 15 to 95% RH, and the frost-free design avoids the drift caused by defrost cycles, so studies of drugs, food, packaging and electronic components can run for weeks without interruption.

KEY HIGHLIGHTS

- Sample protection
- USB data recording to printer or flash drive

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

support@themsci.com
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Key Benefits

LESS MANUAL WORK

Automatic water replenishment and recycling reduce routine water checks.

AUDIT-READY RECORDS

USB output logs temperature and humidity data for stability reports.

Sample protection

Key Features

THREE-SPEED CIRCULATING FAN (HIGH, MEDIUM, LOW)

Programmable fuzzy PID control with 30 segments and 99 cycles

GRADIENT AND SLOPE CONTROL OF TEMPERATURE RISE AND FALL

Automatic water replenishment and recycling with water shortage protection

Tempered glass explosion-proof inner door and 4-point locking outer door

USB data recording to printer or flash drive

Technical Specifications

PARAMETER	SPECIFICATION
Capacity	253 L
Circulation Mode	Forced convection (balanced type)
Internal Dimensions (W × D × H)	640 × 460 × 860 mm
External Dimensions (W × D × H)	800 × 780 × 1570 mm
Temperature Range	-5 to 70 °C
Temperature Resolution	0.1 °C
Temperature Fluctuation	±0.2 °C
Temperature Uniformity	±0.5 °C
Humidity Range	15 to 95% RH
Humidity Fluctuation	±1% RH
Operating Ambient Temperature	5 to 30 °C
Shelves	3 (standard)
Test Hole	Ø40 mm
Control System	Programmable microcomputer fuzzy PID, 30 segments, 99 cycles
Display	Wide screen showing temperature, humidity, fan speed and running time
Alarm Functions	Temperature, humidity and water level alarms (visual and audible)
Data Interface	USB for printer or USB flash drive recording
Refrigeration	Hot gas bypass energy regulation technology
Power Supply	AC 220 V, 50 Hz
Power Consumption	2000 W
Safety Protection	Compressor overheating, over-current and over-pressure protection; condenser fan overheating protection; phase sequence and phase loss protection; leakage and short-circuit protection; overload protection; water shortage protection

Applications

- **Pharmaceutical stability testing**
- **Food quality and shelf-life studies**
- **Electronic component reliability testing**
- **Quality control laboratories**
- **Research institutions and universities**

Standard Accessories Included

- Main chamber unit
- 3 adjustable SUS304 stainless steel shelves
- Power cord
- Operation manual

The frost-free design removes the temperature and humidity spikes caused by defrost cycles.

Diffusion-type air ducts and a three-speed fan keep temperature uniformity within ±0.5 °C across the 253 L chamber.

Over-temperature cut-off and audible and visual alarms stop the run before samples are affected.