Servo-Drive Shaking Incubator 70 L, Up to 600 rpm, RT+5 or 4 to 65°C, Multi-Step Program, USB Data

Model **MSICB-S100BSWISS,MSICB-S200BSWISS,MSICB-S100DSWISS,MSICB-S200DSWISS,MSICB-SL100FSWISS,MSICB-SL200FSWISS** | Brand **Master Science**





The Master Science Servo-Drive Shaking Incubator is a 70 litre constant-temperature shaker built around a servo motor for quiet, accurate speed control within ±1 rpm. Three drive options cover different needs: a multidimensional drive up to 300 rpm, a unidimensional drive up to 600 rpm for vigorous mixing, and a track drive with adjustable 0-50 mm orbit up to 260 rpm.

KEY HIGHLIGHTS

- Choose the right motion
- Cooling when needed
- Programmable runs
- Complete data record

AT A GLANCE

≤0.1°C at 37°C
TEMPERATURE FLUCTUATION

Three drive types cover gentle to vigorous shaking.
ONE SPEED RANGE FOR EVERY JOB

70 L
CAPACITY

550 W (heating), 650 W (cooled)
POWER CONSUMPTION

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

support@themsci.com
www.themsci.com

Scan to view online

Overview

Each drive comes in a heating-only version (RT+5 to 65°C) and a refrigerated version (4 to 65°C) with frost-free operation and automatic defrost. Multi-step programs change speed, temperature and time automatically, and USB logging records the full run for later analysis. Slow acceleration, a door-open stop and power-failure recovery protect cultures and operators.

For a smaller benchtop option, see our benchtop shaking incubator 50-70 L beside the Master Science Servo-Drive Shaking Incubator.

Basic shakers lack speed range, cooling and data recording. The Master Science Servo-Drive Shaking Incubator addresses:

Key Benefits

Choose the right motion
The Master Science Servo-Drive Shaking Incubator offers 300, 600 or 260 rpm drives with fixed or adjustable orbit.

Cooling when needed
Refrigerated versions run down to 4°C with automatic defrost.

Programmable runs
Multi-step control changes speed, temperature and time automatically.

Complete data record
USB logging supports analysis and traceability.

Technical Specifications

GENERAL	
General	Specifications of the Master Science Servo-Drive Shaking Incubator range:
Brand	Master Science
Model Number	MSICB-S100BSWISS,MSICB-S200BSWISS,MSICB-S100DSWISS,MSICB-S200DSWISS,MSICB-SL100FSWISS,MSICB-SL200FSWISS
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Capacity	**70 L**
Circulation	Forced convection
Drive mode	Multidimensional (S100B/S200B), unidimensional (S100D/S200D), track (SL100F/SL200F)
Shake mode	Orbital (convolution)
Orbit diameter	Ø26 mm (B, D models); Ø0-50 mm (F models)
Speed range	**0 (static) and 20-300 rpm (B); 20-600 rpm (D); 20-260 rpm (F)**
Speed resolution	±1 rpm
Temperature range	**RT+5 to 65°C (S100B, S100D, SL100F); 4 to 65°C at 25°C ambient (S200B, S200D, SL200F)**
Temperature fluctuation	≤0.1°C at 37°C
Temperature resolution	0.1°C
Uniformity	±0.6°C at 37°C
Platform	450 × 410 mm (B, D); 410 × 360 mm (F)
General	Flask clamp max. capacity: 100 ml ×23, 250 ml ×15, 500 ml ×9, 1000 ml ×6 or 2000 ml ×4
Controller	PID microcomputer; fixed value, static and multi-segment program modes
Timer	0-9999 h or continuous
Refrigerant	R134a (CFC free), cooled models
Defrost	Automatic, cooled models
Safety	Self-diagnosis; over-temperature and abnormal status alarms; door-open stop
Display	Large LCD
No below-ambient control	Refrigerated models reach 4°C.

DIMENSIONS & WEIGHT	
External dimensions (W×D×H)	750 × 710 × 520 mm
Net / gross weight	75/105 kg (heating); 90-95/120 kg (cooled)

POWER	
Power supply	AC 220/110 V, 50/60 Hz
Power consumption	550 W (heating), 650 W (cooled)

SHAKING CULTURE PROBLEMS THE MASTER SCIENCE SERVO-DRIVE SHAKING INCUBATOR SOLVES

One speed range for every job	**Three drive types cover gentle to vigorous shaking.**
Frost affecting long cold runs	Automatic defrost keeps conditions stable.
No run history	USB logging records every parameter.

Applications

The Master Science Servo-Drive Shaking Incubator is used for: Bacterial and yeast cultivation in flasks Cell culture and fermentation studies Hybridization and biochemical reactions High-speed mixing and dissolution (600 rpm model) Low-temperature culture with refrigerated models

Drive and speed

- High-quality servo motor
- ±1 rpm PID speed control
- Slow start and stop to protect cells
- Automatic lock if speed goes out of control

Temperature

- Air duct design for uniformity
- Frost-free refrigeration with auto defrost (cooled models)
- Alarm when deviation reaches ±3°C

Data and safety

- USB data recording and download
- Multi-step speed, temperature and time programs
- Door-open stop and power-failure recovery
- Large backlit LCD with remaining-time display

Standard Accessories Included

- Shaking incubator
- Flask clamps: 500 ml ×3, 250 ml ×3-4, 100 ml ×4-5, 50 ml ×4-5 (by model)

Optional Accessories

- Additional fixtures
- 7 inch touch screen with USB data storage
- UV sterilization device
- Illumination
- Sticky mat