Tissue Embedding & Cooling System - Paraffin Embedding Station - 4 L Chamber - RT to 99°C

Model **MSEBD-3SWISS, MSEBD-CL3SWISS** | Brand **Master Science**









The Master Science Tissue Embedding & Cooling System pairs a heated paraffin embedding module with a separate cryo module, so tissue blocks are cast and chilled at one workstation. The two units stand side by side and can be serviced independently.

KEY HIGHLIGHTS

- Ready when the shift starts
- No cross-heating
- Large batches
- Quick block release
- Hands stay free

AT A GLANCE

RT to 99 °C PARAFFIN CHAMBER TEMPERATURE	**4 L** PARAFFIN CHAMBER CAPACITY
±1% TEMPERATURE CONTROL PRECISION	

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Overview

A 4 L paraffin chamber feeds the dispenser, and five heated zones are each controlled on their own channel up to 99 °C. The cryo module uses an inverter compressor and holds between +5 and -20 °C, reaching -28 °C in super cooling mode.

Overview

- Separate cryo module with inverter compressor
- Adjustable freezing temperature
- Independently controlled small cold plate for small specimens

Key Benefits

Ready when the shift starts
the Master Science Tissue Embedding & Cooling System switches on and off by weekly programme.

No cross-heating
five zones are controlled independently.

Large batches
4 L of molten paraffin on hand.

Quick block release
cryo plate down to -28 °C.

Hands stay free
foot pedal controls paraffin flow.

Tissue is usually prepared beforehand in a Master Science automated tissue processor.

Technical Specifications

GENERAL

General	Specifications of the Master Science Tissue Embedding & Cooling System:
Brand	Master Science
Model Number	MSEBD-3SWISS, MSEBD-CL3SWISS
SKU	MSEBD-3SWISS, MSEBD-CL3SWISS
Brand	Master Science
Model Number	MSEBD-3SWISS (embedding), MSEBD-CL3SWISS (cooling)
SKU	MSEBD-3SWISS, MSEBD-CL3SWISS
Paraffin Chamber Capacity	**4 L**
Paraffin Chamber Temperature	RT to 99 °C
Paraffin Dispenser Temperature	RT to 99 °C
Forceps Wells Temperature	RT to 99 °C
Temperature Control Precision	±1%
Paraffin Flow Control	Finger touch plate and foot pedal
Small Cold Plate Temperature	Below -5 °C
Cryo Module Temperature	+5 to -20 °C (control mode); down to -28 °C (super cooling mode)
Working Plate	155 × 90 mm
Small Cold Plate	60 × 50 mm
Cryo Module Plate	340 × 322 mm

DISPLAY & DATA

Thermal Storage Compartment Temperature	RT to 99 °C
Storage Plate / Working Plate Temperature	RT to 99 °C

POWER

Voltage	AC 220 V ±10% 50 Hz (standard); AC 110 V ±10% 60 Hz
Power	1000 W (embedding), 300 W (cooling)

DIMENSIONS & WEIGHT

Package Dimensions (W×D×H)	670 × 590 × 445 mm (embedding); 685 × 380 × 430 mm (cooling)
Net Weight	33 kg (embedding); 26 kg (cooling)

COMMON PROBLEMS AND HOW THIS SYSTEM HELPS

Common Problems and How This System Helps	How the Master Science Tissue Embedding & Cooling System eases embedding work:
Waiting for wax to melt each morning	timed automatic start.
Paraffin setting in the nozzle	separately heated dispenser.
Slow block hardening	large cryo plate with super cooling mode.
Whole station down for one repair	embedding and cryo modules are separate.

Applications

The Master Science Tissue Embedding & Cooling System is used for: Paraffin embedding of processed tissue Cooling and hardening of paraffin blocks Histology and pathology laboratories

Heating

- Silicon rubber heating elements for fast, even heating
- Five temperature-control channels with overheating protection
- Heated working plate and forceps wells

Control

- Programmable weekly automatic start and stop
- LCD with status icons
- Preset temperatures stored and restored automatically
- Resumes operation after a power interruption

Work Area

- Solenoid valve regulates dispenser flow
- Low-voltage lighting with finger or foot switch