# 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

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

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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

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|---|---|
| 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

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|---|---|
| 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