Enclosed Tissue Processor - Vacuum Tissue Processing System - 300 Cassettes - 12 Reagent Stations

Model **MSTSP-CV1SWISS** | Brand **Master Science**





The Master Science Enclosed Tissue Processor is a fully automatic, sealed tissue treatment system. Samples stay in one retort while reagents and wax are pumped in and out, so fumes are contained and a mechanical fault cannot leave tissue stranded between stations.

KEY HIGHLIGHTS

- Cleaner air in the lab
- Samples stay put
- Runs resume after power loss
- Longer reagent life
- Fast or overnight

AT A GLANCE

9 L PROCESSING STATION CAPACITY	**RT to 45 °C** PROCESSING TEMPERATURE (SOLVENT)
6 L REAGENT STATION CAPACITY	**58 to 80 °C** PROCESSING TEMPERATURE (WAX)

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

support@themsci.com
www.themsci.com

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Overview

It handles up to 300 cassettes per run, stores 10 programmes and is operated from a 15-inch colour LCD touch screen. One key switches between normal processing and a rapid mode that finishes in about three hours.

Overview

- Magnetic stirring shortens processing time
- Cassette holder designed for thorough reagent contact
- Rapid mode about 3 hours; normal mode for overnight

Key Benefits

Cleaner air in the lab
the Master Science Enclosed Tissue Processor is sealed against gas leakage.

Samples stay put
only the reagents move.

Runs resume after power loss
the interrupted protocol continues in order.

Longer reagent life
stations drain back fully to limit carry-over.

Fast or overnight
rapid and normal modes on one key.

For smaller workloads, see the open-carousel Master Science automated tissue processor.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSTSP-CV1SWISS
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Reagent Stations	12
Tissue Processing Stations	No. 1 to No. 9
Washing Stations	No. 14 to No. 16
Wax Tanks	3 (No. 10, 12 and 13), 6 L each
Working Stations	1
Processing Station Capacity	**9 L**
Reagent Station Capacity	**6 L**
Basket	163 × 163 × 198 mm, 300 cassettes
Processing Temperature (solvent)	RT to 45 °C
Processing Temperature (wax)	58 to 80 °C
Operating Pressure	<0.1 MPa
Single Reagent Time	Tanks 1 and 2: 0 to 6000 min; others: 0 to 300 min
Programmes	10 sets
Wax Melt Time	Not more than 3 hours
Fill / Drain Time	Not more than 5 min each
Stirring Time / Interval	0 to 9 min / 0 to 12 min
Operation Mode	Manual and automatic

POWER

Power Input	<1500 VA +10%
Voltage	220 VAC ±10%, 50/60 Hz

DIMENSIONS & WEIGHT	
Overall Dimensions (W×D×H)	650 × 650 × 1350 mm
Package Dimensions	770 × 770 × 1480 mm
Net Weight	115 kg

COMMON PROBLEMS AND HOW THIS PROCESSOR HELPS	
Common Problems and How This Processor Helps	How the Master Science Enclosed Tissue Processor deals with typical processing risks:
Solvent fumes in the workspace	enclosed system with no gas leakage.
Tissue drying out when a carousel stops	samples never leave the retort.
Reagent cross-contamination	complete back-flow before the next fill.
Manual wax changes	automatic wax rotation.

Applications

The Master Science Enclosed Tissue Processor is used for

Tissue dehydration, clearing and wax infiltration Histopathology laboratories with high cassette volumes Laboratories that need enclosed reagent handling

Control

- 15-inch colour LCD touch screen
- End time can be set for any day of the week
- Alarm and on-screen message when finished

Fluid Handling

- Single mechanical air-pressure transfer device in place of multiple solenoid valves
- Automatic wax rotation: tank 1 to waste, tank 2 to 1, tank 3 to 2
- Full back-flow reagent station design

Protection

- Automatic resume after power is restored
- Over-temperature protection