Automatic Chemistry Analyzer - 200 Tests per Hour Biochemistry Analyzer - Open Reagent

Model **MSBA-A-280SWISS** | Brand **Master Science**







The Master Science 200 T/H Chemistry Analyzer is a random-access biochemistry system for busier laboratories, running a constant 200 tests per hour with single or double reagents. It uses colorimetric and turbidimetric methods for routine blood and urine chemistry.

KEY HIGHLIGHTS

- Higher throughput
- Clean cuvettes every cycle
- Reagent flexibility
- Fresh reagents
- Reliable results

AT A GLANCE

0 to 4.0 Abs / 0.0001 Abs ABSORBANCE RANGE / RESOLUTION	**37 ±0.1 °C** REACTION TEMPERATURE

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

support@themsci.com
www.themsci.com

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Overview

An automatic 3 × 4-step washing station cleans the 44 reaction cuvettes for accurate, repeatable results. 80 reagent positions are kept at 2 to 14 °C around the clock, and the open system accepts any reagent.

Key Benefits

Higher throughput
the Master Science 200 T/H Chemistry Analyzer runs 200 tests per hour.

Clean cuvettes every cycle
12-step automatic washing.

Reagent flexibility
open system.

Fresh reagents
continuous 2 to 14 °C cooling.

Reliable results
level sensing, auto checks and QC.

For smaller workloads, see the Master Science 120 tests/hour biochemistry analyzer.

Technical Specifications

GENERAL	
Brand	Master Science
Model Number	MSBA-A-280SWISS
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System Type	Random access; open reagent (locked reagent optional)
Throughput	Constant 200 tests/hour (single or double reagent)
Principle	Colorimetry, turbidimetry
Methods	1-point end, 2-point end, fixed time, kinetics
Calibration	Linear and non-linear, up to 8 points
Sample Tray	40 positions; micro cups, test tubes, blood collection tubes Ø12-13 × 25-100 mm
Sample Volume	2 to 30 µL, 0.1 µL steps
Reagent Tray	80 positions (40 R1, 40 R2), 24 h Peltier cooling 2 to 14 °C
Reagent Volume	20 to 300 µL, 1 µL steps
Reaction Tray	44 optical plastic cuvettes, 150 to 330 µL
Reaction Temperature	37 ±0.1 °C
Washing	Automatic, 3 × 4 steps
Mixer	Paddle type with PTFE coating
Quality Control	Westgard rules, control plots, cumulative QC
Interface	TCP/IP

OPTICAL PERFORMANCE	
Light Source	Halogen lamp
Wavelengths	**340, 405, 450, 505, 546, 578, 630, 700 nm (4 more optional)**
Absorbance Range / Resolution	**0 to 4.0 Abs / 0.0001 Abs**

POWER	
Power	AC 110/220 V ±10 %, 50/60 Hz, 650 W
Water Consumption	Up to 8 L/h

DIMENSIONS & WEIGHT	
Dimensions (L × W × H)	870 × 690 × 740 mm
Weight	80 kg

COMMON LABORATORY PROBLEMS AND HOW THIS ANALYZER HELPS

Common Laboratory Problems and How This Analyzer Helps	How the Master Science 200 T/H Chemistry Analyzer handles busy workloads:
Sample backlogs	200 tests per hour.
Dirty cuvettes affecting results	automatic 12-step washing.
Expensive locked reagents	open reagent system.
Manual QC tracking	built-in QC tools.

The Master Science 200 T/H Chemistry Analyzer is used in

- **Hospital clinical chemistry laboratories**
- **Diagnostic and pathology laboratories**
- **Medium to high volume testing centres**
- **Routine blood and urine chemistry**
- **Research laboratories**

Sampling

- Liquid level sensing and collision protection
- Probe washing inside and out
- Automatic sample dilution

Reaction

- 44 cuvettes at 37 °C
- 3 × 4-step washing
- PTFE-coated mixer

Software

- 8-point calibration
- Westgard QC
- Patient database, 6 report formats

Optional Accessories

- Sample barcode reader
- Reagent barcode reader
- Locked reagent mode