

mb chem ¹⁰⁰

FULLY AUTOMATED BIOCHEMISTRY ANALYZER



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Technical Specifications

System Function

System	Discrete random access
Throughput	100~120 T/H (single/double reagent)
Analysis method	End-point, Two-point, Kinetic

Sample & Reagent system

Sample positions	20+2 positions, up to 71
Sample & reagent probe	1 independent polished treated probe with mixing function
Sample volume	2~100 µl, 0.1 µl stepping
Sample & reagent probe technology	X+Y+Z dispensing system
Sample & reagent probe cleaning	Liquid level detection
Sample & reagent probe cleaning	Automatic washing interior/ exterior
Reagent position	up to 50 positions with on-board cooling
Reagent volume	15~300 µl, 1 µl stepping
Reagent bottle	20 ml

Reaction System

Cuvette specification	Individually positioned cuvettes
	Optical diameter of 5.8 mm
Reaction temperature	37°C
Waste water treatment	Waste liquid level alarming
	De-ionized water level alarming
Reaction cuvette cleaning	On-board 6 stage cuvette washing

Optical System

Light source	10W/6V halogen lamp
Wavelength	8 wavelengths: 340nm, 405nm, 450nm, 510nm, 546nm, 578nm, 630nm, 700nm
Absorbance range	0~3.5 Abs
Resolution	0.0001 Abs

Calibration and QC

Calibration rules	10 types (Factor, 1-point, 2- point, Multipoint, Spline, Logit-log 4P/5P, Exp 5P, Poly 5P, Parabola)
Control rule	Westgard multi-rule, L-J plot

Operating System

Operating system	Win XP/Win 7/Win 8/Win10
Interface	Standard RS-232

Working Conditions

Power supply	AC110/220V, 50/60Hz, 300W
Temperature	15~30°C
Humidity	35-80%
Water consumption	3~5 L/Hour

Weight & Size

Dimensions	500mm X 440mm X 470mm
Net weight	~40Kg

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*Entry Level Automation for
Clinical Chemistry and Turbidimetry*

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Liquid Handling

- Unique discrete, X+Y+Z dispensing system
- Reagent/sample probe with stirrer mixing facility
- Liquid level detection
- Collision protection of probe
- Automatic probe washing by internal, external and stirrer wash
- Backed by maintenance-free diluter



On-board Laundry

- Automatic 6-stage on-board washing station
- Maintenance-free vacuum pumps
- Automatic cuvette auto-zero after washing of each cuvette
- Alarm for waste liquid level & de-ionized water level



Reagent & Sample Rack

- Flexible drawer-style reagent and sample rack
- Interchangeable reagent and sample positions
- Max. 50 reagent positions and max. 71 sample positions
- Continuous sample loading
- Cooled reagent unit with peltier elements
- Suitable for direct placement of OzoSense system reagent bottles



Reaction Carousel

- 48 individually positioned reaction cuvettes
- High quality cuvettes
- Thermostat technology to maintain temperature at 37°C

COMPACT

- Small foot-print with powerful aesthetics
- The most compact automated chemistry and turbidimetry analyzer

FAST

- Constant throughput of 100 tests/hr. with typical workload with max. throughput upto 120 tests/hr.

SMART

- On-line inventory for reagents, waste and de-ionized water
- Easy profiling of any assays
- On-line graph monitoring for any reaction
- Pre-programmable auto-serial dilution of calibrators

ECONOMIC

- Reusable cuvettes
- On-board laundry with no additional consumables

ACCURATE

- Pre-programmed with OzoSense System Packs
- Reliable results and stable performance

System Packs for mb chem 100

- Improved accuracy and reliability
- No reagent refilling/ top-up required
- Pre-programmed and validated
- Reduced handling errors
- Special stabilizers used for enhanced on-board stability
- Guaranteed number of tests
- Easier accreditation
- Reduced contamination and application errors
- Convenient Pack Sizes
- Fully compatible with OzoCal, OzoNorm and OzoPath controls and calibrator

