

TECHNICAL SPECIFICATIONS

Parameter	Specification
Type of System	Fully-automated walkaway biochemistry analyser
Test Speed	Constant 200 tests/hour
Test Principles	Colorimetric, Turbidimetry, Immunoturbidimetry
Analysis Methods	1-point end, 2-point end, fixed time, kinetic
Probe System	1 independent multi-functional mirror polished probe
Probe Features	Liquid level detection, vertical collision protection, inventory tracking
Mixing	Paddle-type (efficient carryover reduction, high effectiveness)
Reaction Cuvettes	44 Pyrex cuvettes with onboard cleaning
Sample Positions	40 with STAT
Reagent Positions	80 Reagent positions (R1 + R2) / 40 Reagent positions with Peltier based refrigeration & optional barcode system
Reaction Volume	150-300 μ L
Reaction Temperature	Peltier - pad incubation with $37 \pm 0.1^\circ\text{C}$
Sample Volume	2-30 μ L (step 0.1 μ L)
Reagent Volume	20-300 μ L (step 1 μ L)
Calibration Type	9 types (1 point linear, 2 point linear, exponential, Logit-log 3P/4P/5P, multi-point linear, spline, line graph)
Detection System	Halogen Lamp, 8 standard filters (340, 405, 450, 505, 546, 578, 630, 700 nm) + 4 optional
Absorbance	0 Abs-4 Abs with a resolution of 0.0001 Abs
Interface	TCP/IP, LIS compatible
Operating System	Windows10 and Windows11
Dimensions (L x W x H)	745 x 540 x 530 mm
Weight	50 kg
Water Consumption	4-5L/hour average, max. 8L/hour
Operating Conditions	Temperature: 15-30°C, Humidity: 35-80%
Power Supply	110/220V \pm 10%, 50/60 Hz, 1000VA
QC Rules	Westgard, L-J

Also Available

System Pack Reagents,
Controls & Calibrators



EdgeLabs LLP
Diagnostic excellence to enhance life

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EDGE CHEM-200

POWERING SMARTER DIAGNOSTICS

FULLY AUTOMATED BIOCHEMISTRY ANALYZER

**Engineered For Excellence: Smart Automation For
Today's Advanced Laboratories**



Designed for Next-Gen Diagnostics with Unmatched Speed, Accuracy, Precision & Reliability

- Smart Walk-Away System
- High Throughput of 200T/hour
- 80 Reagent Positions
- On-Board Laundry
- 40 Sample Positions
- With Clot Detection Facility
- Cuvettes with High Optical Clarity
- Bench-Top Random-Access Analyzer
- Minimal Water Usage
- User-Friendly Software
- Teflon Coated Mixing Arm

Now comes with in-built bar-code reader to power the truly intelligent labs of today



Advanced Laundry System
 · Multi – step laundry
 · Maintenance free ceramic pumps
 · Cuvette verification system

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Sample & Reagent Carousel

- 80 reagent positions with 24hr cooling ensures reagent longevity & larger test menu
- 40 sample positions with continuous sample loading
- Automatic pre/post dilution of samples
- Dedicated system packs for superior performance

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Intelligent Liquid Handling System

- Smart anti-collision system
- Multi-functional sampling probe with external & internal mirror polish ensuring no carryover
- Dedicated probe equipped with liquid level detection & auto-probe depth adjustment
- Internal & external probe washing with jet force ensures zero carryover

Key Features



Smart

- ▶ Smart sampling technology for enhanced accuracy
- ▶ Smart water consumption for minimal wastage
- ▶ Smart pipetting technology ensuring zero carryover
- ▶ Smart mixing system for pre/post dilution of samples

Intelligent Operating System

- ▶ Advanced, easy to operate & user – friendly operating system
- ▶ Compatible with various windows operating systems (10, 11)
- ▶ Automatic calibration, test combination and reagent management
- ▶ Linear & non - linear calibration, multi-point calibration up to 8 points
- ▶ Quality controls to apply to Westgard, L-J plot, cumulative



Optical System

- ▶ Equipped with latest generation optical fibre based array optical splitter
- ▶ 8 on board wavelengths from 340nm - 700nm with 4 optional positions to accommodate all biochemical & turbidimetric tests
- ▶ Integrated fully closed optical system that prevents external interference of light
- ▶ Absorbance range of 0 - 4 with resolution beginning from 0.0001Abs

Reagents/Sample and Reaction Carousel

- ▶ 80 reagent position with 24 - hour cooled compartment for high reagent stability
- ▶ Continuous sample loading at 40 dedicated sample positions
- ▶ Automatic pre and post dilution of samples
- ▶ Compatible with all primary tubes & sample cups
- ▶ 44 individually positioned high quality semi-permanent cuvettes for long life
- ▶ Continuous temperature stability of reaction carousel at 37 ± 0.1°C



Intelligent Laundry System

- ▶ Intelligent laundry system for efficient cleaning to ensure accurate results and reliable diagnostics
- ▶ Maintenance – free pumps for higher economy
- ▶ 3 x 4 steps automatic washing
- ▶ Cuvette verification system to ensure optical perfection of cuvette