

Technical Specifications

System Function

Throughput : 100~120 T/H(Single/Double Reagent)

Analysis Method : Two-Point, End-Point, Kinetic

Analysis Item : 200 Colorimetric Items

Working Conditions

Power Supply : AC 110/220 V, 50/60 Hz, 300 W

Temperature : 15 - 30°C

Humidity : 35 - 80%

Water Consumption : 3L~ 5L* / Hour

Sample & Reagent System

Sample Position : 20+2 Positions, up to 71

Sample & Reagent Probe : 1 Independent Probe with
Stirring Function

Sample Volume : 2~100 µL, 0.1 µL Stepping

Sample & Reagent Probe Technology : Liquid
Level Detection X+Y+Z Dispensing System

Sample & Reagent Probe Cleaning : Automatic
Washing Both Interior & Exterior

Reagent Positions : 50 Positions, Refrigerated Tray

Reagent Volume : 15~300 µL, 1 µL Stepping

Reagent Bottle : 20mL

Optical System

Light Source : 10W/6V Halogen Lamp

Spectrophotometry : Forward

Absorption Range : 0~3.5 Abs

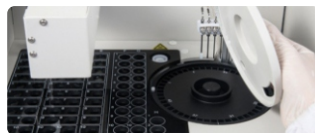
Wavelength : 8 Wavelengths: 340nm, 405nm, 450nm,
510nm, 546nm, 578nm, 630nm, 700nm

Resolution : 0.0001 Abs

Weight & Size

Dimensions : 520mm X 512mm X 440mm

Net Weight : 37 Kg



Operating System

OS: Windows XP/Windows 10

Interface : Standard RS-232

Language : Multi-Language

Calibration and QC

Calibration Method : 10 types (Factor, 1-point
2-Point Linear, Multi-Point, Spline,
Logit-log-4P/5P, Exp 5P, Poly 5P,
Parabola)

QC Method : Real-Time QC, Days QC & Day QC

Control Rule : Westgard Multi-Rule, L-J Plot

Reaction System

Cuvette Specification : Optical Diameter is 5.8 mm

Reaction Volume : 180 µL- 500µL

Reaction Temperature : 37°C

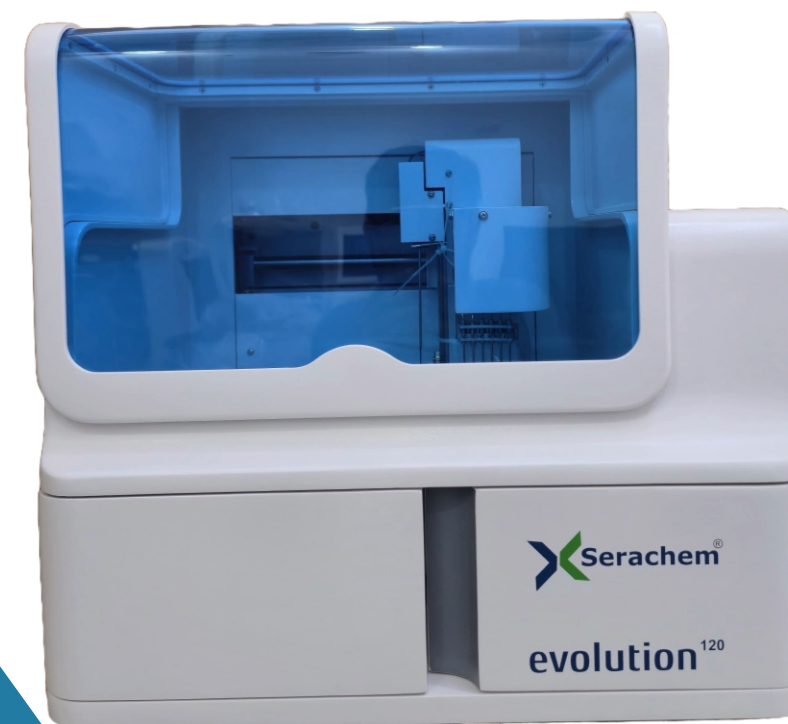
Waste Water Treatment : Waste Liquid Level Alarming
(Optional), De-ionized Water Level Alarming (Optional)

Reaction Cuvette Cleaning : On -board 6 cuvette Washing



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Auto Chemistry Analyzer



- Compact design.
- User-friendly software.
- On-Board Washing
- On-Board Cooling
- Very High Accuracy



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EC REP

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Auto Chemistry Analyzer

Entry Level Automation for Clinical Chemistry and Turbidimetry

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

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 Serachem System Reagent bottles

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

Reaction Carousel

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

COMPACT

- Small foot-print with powerful aesthetics (0.1 m³)
- 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 reactions
- Pre-programmable auto-serial dilution of calibrators

ECONOMIC

- Min. sample volume of 2 µL
- Min. reaction volume of 180 µL
- On-board laundry with no additional consumables

ACCURATE

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

Empowered by  Serachem®

System Packs for evolution 120

- Improved accuracy and reliability
- No reagent refilling / top-up required
- Pre-programmed and validated
- Reduce 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 SeraCal, SeraNorm and SeraPath

