Technical specification:

Throughput • Up to 260 tests per hour	 Reaction system 90 Special cuvettes Length of cuvette : 6mm Cuvette Volume : 300µL Reaction volume : 200µL to 500µL Reaction time : 8 - 10 mins Reaction temperature : 37±0.1°c
Methodology • Measuring principles: Absorbance photometry, Turbidimetry ,End-point, Two-point, Kinetic,/Dual/ reagent chemistries,monochromatic /bichromatic	Working Conditions • Power supply : AC100-240V, 50-60Hz • 1 KVA • Dimensions : 700mm (W) *650mm (L) *530mm (H) • Weight : 61.7kgs (N.W.) + 46.3kgs (T.W.)
Sample Arrangement	Operating configuration
 40 positions for sample, STAT, Calibrator, and QC Sample volume : 2-50µL,step by 0.1µL Compatible with primary collection tube, minimal tube, sample cup, etc 	 Operation system Windows 10 or XP Interface RS-232 Memory Upto 200,000 patient data Temperature 10°c-35°c Humidity upto 90% with no dew
Reagent arrangement	Optical system
 40 reagent positions for R1 and R2 Volume range : 10-500µL, step by 1µL Reagent Probe : Liquid level detection, collision protection function On board cooling (2°c- 8°c) 	 9 wavelengths : 300-700nm Tungsten halogen lamp Absorbance range : 0-4.00Abs Spectrophotometry; rear spectrophotometry
Laundry system	Mixing system
 Needles : 8 step washing sequence. Water Consumption : Upto 4 l/hr 	 Independent mixing probe

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$\textbf{GREAT CHEMISTRY}^{\textcircled{R}}$



- Compact, Benchtop, Fully Automatic Random Access Clinical Chemistry Analyzer
- 260 Test per hour
- Smart system with user friendly programming
- High end washing sequence to eliminate errors in reporting



Clinical Chemistry Analyzer



Sample / Reagent Probe:

- Integrated level and position sensors for the sample/reagent probe
- Optical sensors for vertical and horizontal movement & detection of the position of probe movement.
- Material of the probe is stainless steel Anti rust design
- Internal and external cleaning of the probe after sample and reagent aspiration – Removes chances of carryover and cross contamination
- Stirrer Mechanism:
- Stirrer is useful for proper mixing which is major factor for accurate results
- Teflon coating leads to hydrophobic nature and helps to avoid carryover



Laundry system :

• 8 step Washing unit There are 14 washing needles:

- Six short needles to dispense distilled water into cuvettes
- One short needle is used to dispense detergent into cuvettes
- Six long needles are used to aspirate water from the cuvettes One long needle with silicon wiper to clean walls of the cuvettes



Reaction tray:

- 6 reaction holders to load total 90 reaction cuvettes , each holder has 15 cuvettes
- Long cuvette life
- It can be replaced individually

Intellectual software:

- Automatic washing cuvette when start up & shut down the instrument
- Test order setting to avoid carry over
- Automatic detection of reagent volume during every startup of the instrument
- Displays the reagent ,cuvettes and room temperature during testing.

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Dynamic and real- time display of running status:

- Real time online status of sample tray, reagent tray and cuvettes
- Monitoring residual volume of reagents



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Optimum Calibration Cuvette

- Automatic Cuvette blank testing
- Automatic wash for selected cuvette
- Online monitoring of cuvette quality







Automatic dilute and retest

Automatic dilute and retest when :

- 1. Absorbance range is overrange
- 2. Linearity limit is crossed
- 3. Substrate depletion
- 4. 'O' result

Freely set the auto dilute ratio and water position