

XL-1000

Automated High Throughput Random Access Analyzer



- Fully Automatic, Discrete, Patient prioritized, Random Access Clinical Chemistry Analyzer with Throughput of up to 1120 tests/hour. (800 tests/hour photometric and up to 320 tests/hour ISE)
- Diffraction grating with 15 wavelengths from 340nm-800nm
- Extensive database for storing patient data and Q.C. Data
- Capacitance probes with level sensing and Vertical Obstruction Detection (VOD)
- 4-channel direct measurement of the ISE (Na / K / Cl / Li)
- Low reagent consumption with minimum reaction volume of 150 µl
- 43 positions each reagent tray (R1 and R2) with built-in cooling + 2 positions at room temperature
- 9 stage cuvette wash station
- 3 Mixers: R1 and R2/R3 (stirrer)
- 3 Reagent capability
- 147 cuvette positions in Reaction tray, Permanent hard glass cuvettes
- Primary tube sampling with bar code identification
- Barcode identification for reagents
- Cooled calibrator and control tray
- Sample loading with rack system
- Sample Clot Detection
- User friendly Windows 7 based software
- Result Re-calculation facility
- Serum index program (for icteric, lipemic and hemolytic serums)
- Auto Dilution & Auto Rerun facility
- Bi-directional LIS interface

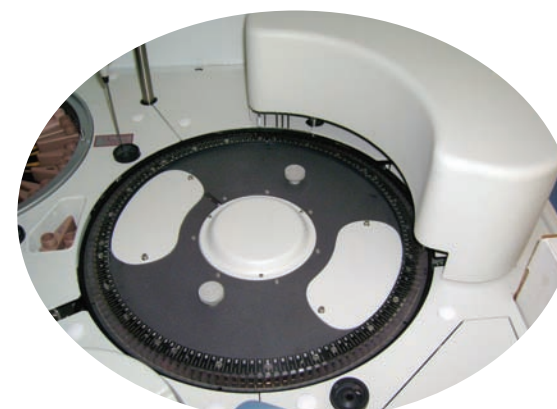


- R1 and R2: 43 positions in each tray each for 50ml, 20ml bottles and 5ml tube on adapter.
- Bar-coded bottles (R1, R2 and R3)
- Independent wash and diluent positions
- Location of reactive free
- On-line monitoring of reagent
- Alarm system (with sound, on screen message)

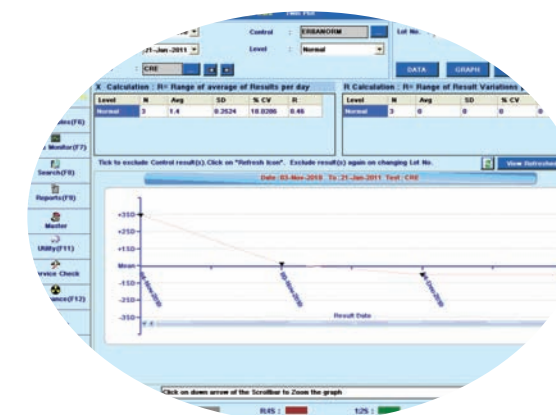
- Up to 150 samples can be simultaneously placed on the instrument excluding calibrators and controls.
- 44 positions tray stat
- Facility to use Primary tubes of 5ml, 7ml, 10ml & sample cups



- 3 Mixer units: Mixer 1 split into 1A and 1B units for R1 and Mixer 2 for Reagent 2 & Reagent 3 mixing
- 3 programmable speed adjustment for the mixer to ensure homogenous mixing
- 147 long life Hard Glass cuvettes
- On-board cuvette washing station for better precision & accuracy
- Individually replaceable cuvettes for easy & economical maintenance



- Extensive quality control program to ensure quality results
- Daily & Monthly L-J graph
- Mean, SD, %CV, R is calculated for each parameter
- Twin plot graph to differentiate between systematic & random errors



TECHNICAL SPECIFICATION

System Type	: Discrete, automated, random access, patient prioritized, 1/2/3 reagent system
Throughput	: Up to 1120 tests/hour (800 tests/hour photometric and up to 320 tests/hour ISE)
Sample	: Serum, Urine, Plasma, CSF(Cerebrospinal Fluid), Other.
Programmable Parameters	: No Limit on Calculation Items or Test Parameters
Analytical Methods	: 1-Point, 2-Point, Rate-A, Rate-B
Calibration	: One point to multipoint calibration is possible. K-Factor, Linear (one, two point and multipoint), 4P and 5P Logit-log, Cubic Spline, Exponential, Polynomial
Standard / Stat Tray	: 44 positions Standard / Stat Tray: Cooled for calibrators and controls positions Up to 150 samples can be simultaneously placed on the instrument (excluding standards, calibrators and controls)
Sample Pipetting	: 2-60 µl (adjustable in 0.1 µl step) for Bio-chemistry, 70 µl (fixed) for ISE Capacitance probe with level sensing & vertical obstruction detection Clot detection facility
Sample Tubes / Cups	: Primary tubes of 5, 7 and 10 ml and sample cups
Barcode Reader	: Both for sample and reagent trays (optional)
Reagent Tray	: 86 reagent positions with on board cooling (2-8 °C) + 2 positions at room temperature
Reagent Pipetting	: Two separate probes for Reagent 1,2 & 3 Reaction volume, 150µl to 550µl Reagent 1: 60 – 300 µl (adjustable in 0.5 µl step) Reagent 2: 0, or 10 – 200 µl (adjustable in 0.5 µl step) Reagent 3: 0, or 10 – 200 µl (adjustable in 0.5 µl step) Capacitance probes with level sensing & VOD (Vertical Obstruction Detection)
Reaction Tray	: 147 Hard Glass Cuvettes stable at 37 ± 0.2 °C
Reading Volume	: 150 µl
Quality Control	: Levy Jennings Quality control program & twin plot
Database	: Unlimited results
Special Utility Programs	: Detergent / Reagent Wash, Probe Wash, Cuvette Skipping, Auto start-up & shut down
Photometry	: Multi-wavelength diffraction grating with 15 wavelengths: 340, 376, 405, 450, 480, 505, 528, 546, 570,600, 628, 660, 700, 750, and 800 nm
OD Range	: OD: 0 – 2.5
Light Source	: Tungsten halogen lamp (20 W)
Detector	: Silicon photo--diode array
Water Consumption	: Upto 25 ltrs per hour
System Interface	: Analyzer – PC: RS-232C Serial Port (3 Ports); PC –Printer: USB (Min 2 Ports)
PC – Host Computer	: TCP/IP & RS-232C
Power Requirement	: AC 220 V ± 10%, 50 Hz or AC 110 V ± 10%, 60 Hz (Factory set).
Power Consumption	: 2000 VA.
Dimensions	: Approximately 1350 mm (L) X 1000 mm(D) X 1250 mm(H)
Weight	: Approximately 275kg

Note : As part of Product Improvement above specifications are subject to change without prior notice .




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